

APPENDIX 1:

MANUFACTURERS' PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

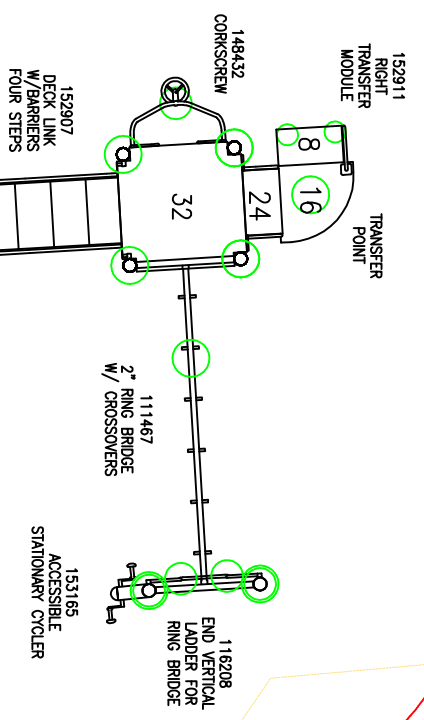
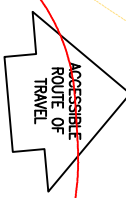
Notes for all instructions, installation time estimates, equipment perspectives and footing layouts:

1. Equipment perspectives provided by manufacturer do not reflect correct placement of play structure and swings in field. Refer to site plans for placement of components on site. Perspectives are provided for reference only.
2. Installation hours have been provided by manufacturer for information only and are not to be assumed to be the actual time required to install parts. The Contractor will not be compensated to discrepancies between estimated install hours and the Contractor's actual install hours.
3. Footing plans provided by the manufacturer may not reflect the correct placement of the play structure relative to the placement of swings. Refer to site plans for placement of components on site. Footing plans are provided for reference only.

ARBOR HILLS PARK

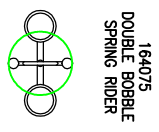
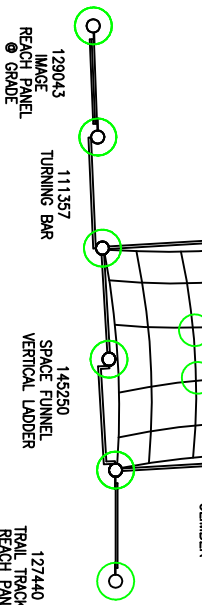
PLAYGROUND MANUFACTURER'S INSTALLATION INFORMATION

182503
WELCOME SIGN
(LSI PROVIDED)
5-12 YEARS



131437
WAVE POLY
SLIDE

145251
HANDHOLD PANEL
FOR FUNNEL CLIMBER



177331
5" ARCH SWING
ADDITIONAL BAY

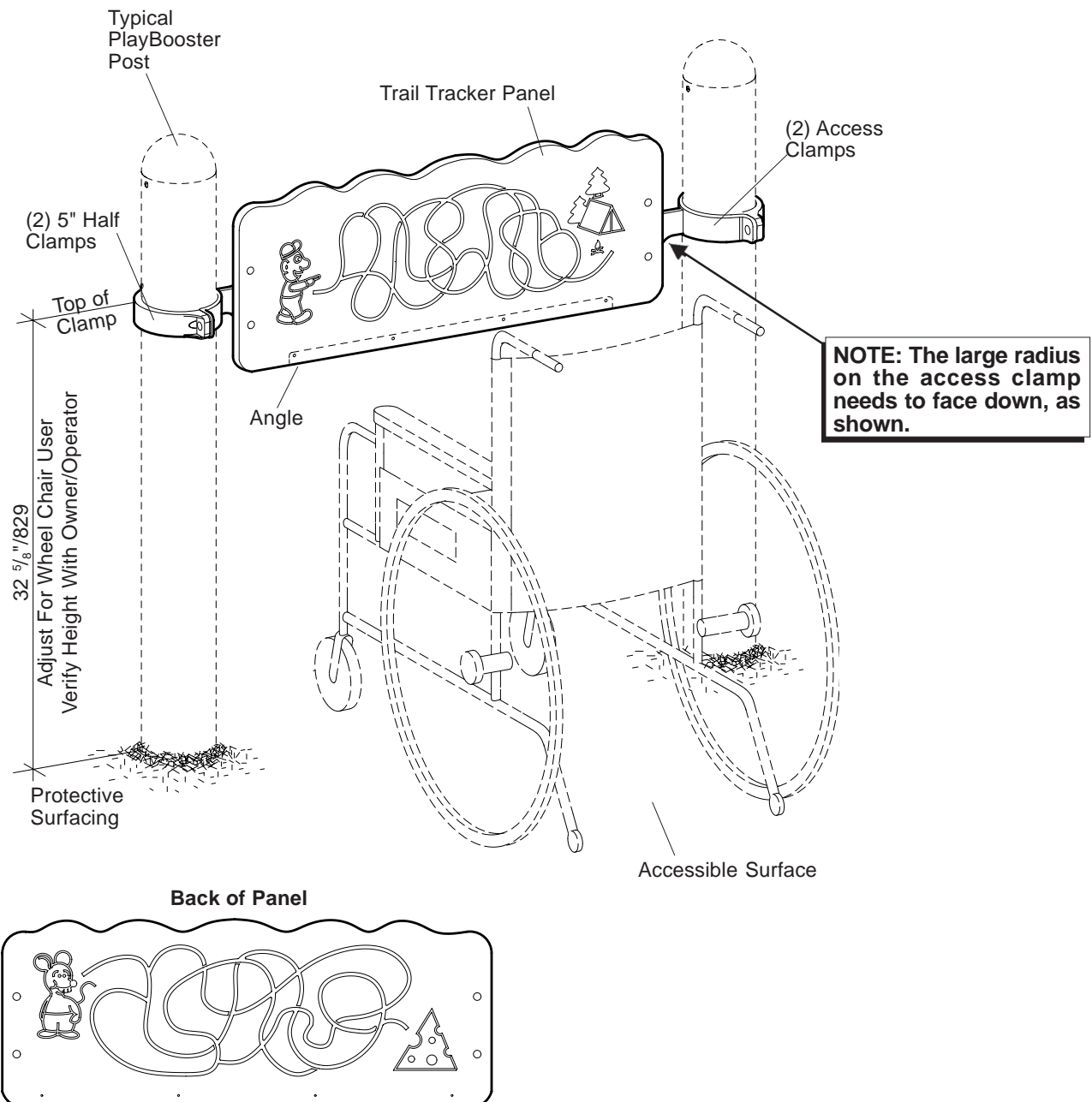
174018
BELT SEAT
W/PROGUARD CHAINS
8' BEAM HEIGHT

176038
FULL BUCKET SEAT
W/PROGUARD CHAINS
8' BEAM HEIGHT

176038
FULL BUCKET SEAT
W/PROGUARD CHAINS
8' BEAM HEIGHT

174018
BELT SEAT
W/PROGUARD CHAINS
8' BEAM HEIGHT

177330
5" ARCH SWING



Parts List

Part#	Description	Qty.
127303-00	Trail Tracker Panel, Specify Color	1
127331-00	Angle, Specify Color	1
188387-00	Access Clamp, Specify Color	2
105327-01	5" Half Clamp, Specify Color	2
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	2
128172-00	Panel Hardware Package	1
100196-00	3/8" x 7/8" BHCS w/Pin, SST	8
100351-00	3/8" Tee Nut, SST	4
100353-00	3/8" Flange Nut w/Pin, SST	4
127463-00	Torx Hex Bit	1
127872-00	#14 x 3/4" Torx Screw, SST	4

Specifications

Panel: Two color Permalene® panel measures 34" wide x 13" high, color specified.

Angle: Fabricated from formed 11 GA (.120") HRPO sheet steel. Finish: ProShield®, color specified.

Access Clamp: Weldment comprised of 3/8" HRPO steel plate and 1/4" x 1 3/4" wide steel clamp. Finish: ProShield, color specified.

Half Clamp: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1/2 man hour

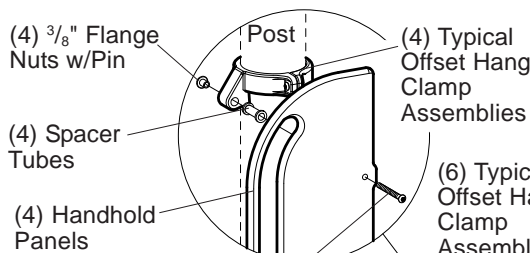
Weight: 18 lbs.

Installation Instructions

- 1) Attach the angle to the bottom of the panel using #14 x 3/4" torx screws. Refer to the Angle Attachment Detail.
- 2) Attach the access clamps to posts at the height shown, using 5" half clamps, 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts. **NOTE:** The large radius on the access clamp needs to face down, as shown.
- 3) Attach panel to access clamps, using 3/8" x 7/8" BHCS w/pin and 3/8" flange nuts w/pin. Refer to the Panel Attachment Detail.
- 4) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec sheet.
- 5) Install protective surfacing before users are allowed to play on the structure.

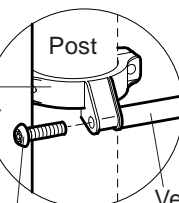
20272100

DETAIL PANEL ATTACHMENT



DETAIL

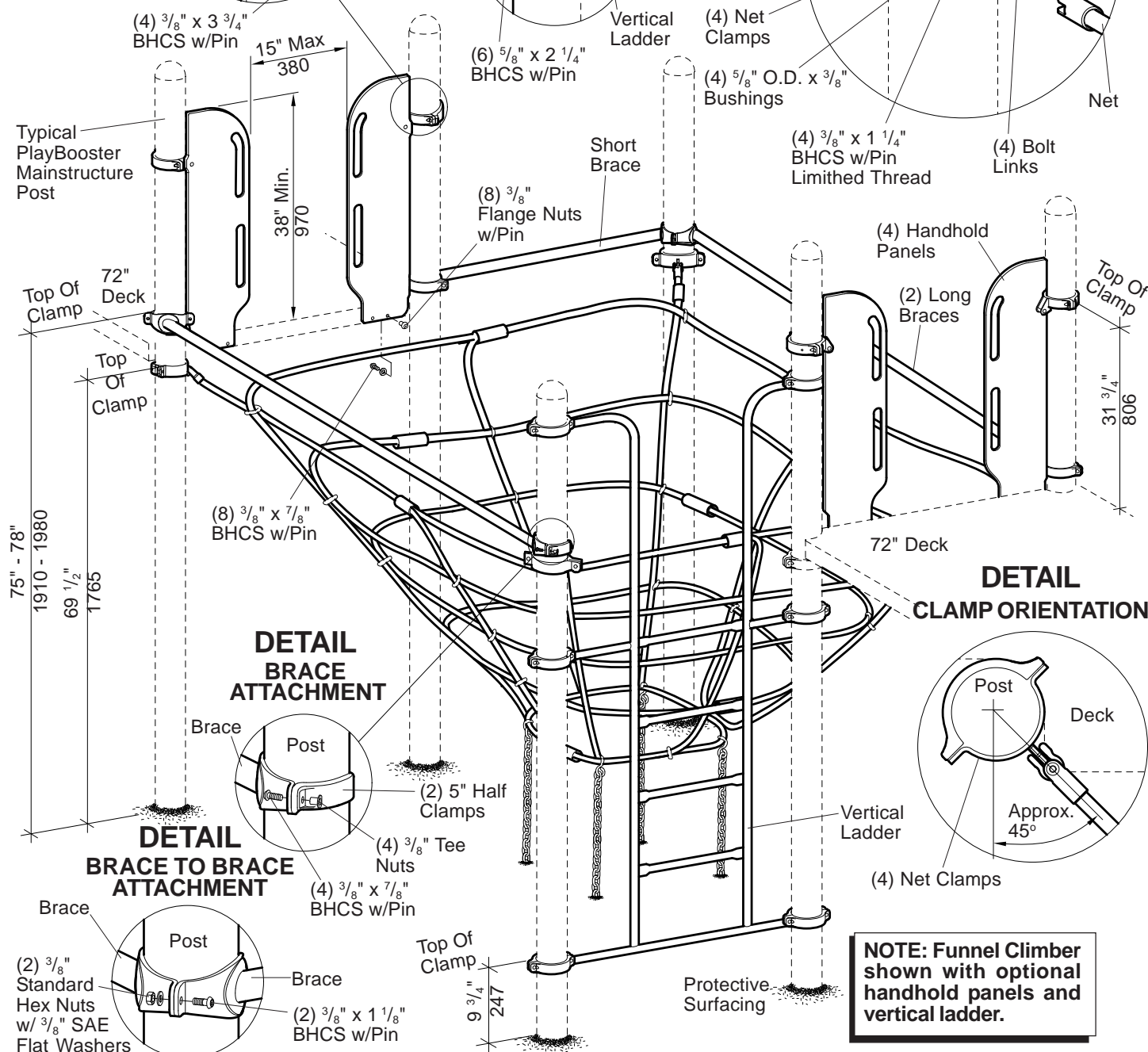
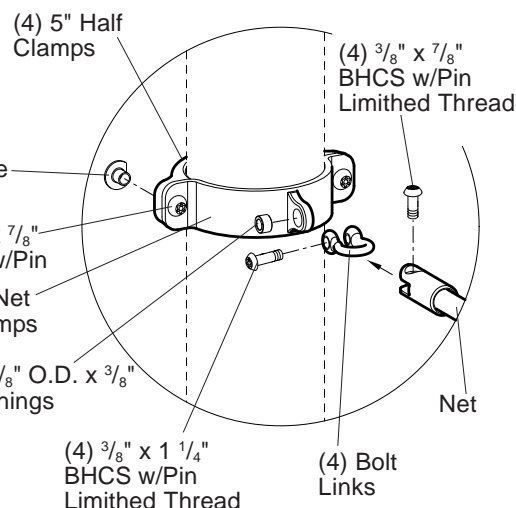
VERTICAL LADDER ATTACHMENT



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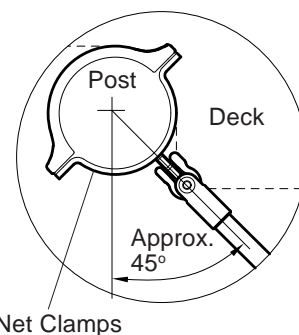
DETAIL

NET TO POST ATTACHMENT



DETAIL

CLAMP ORIENTATION



NOTE: Funnel Climber shown with optional handhold panels and vertical ladder.

PlayBooster®

145109 Funnel Climber™

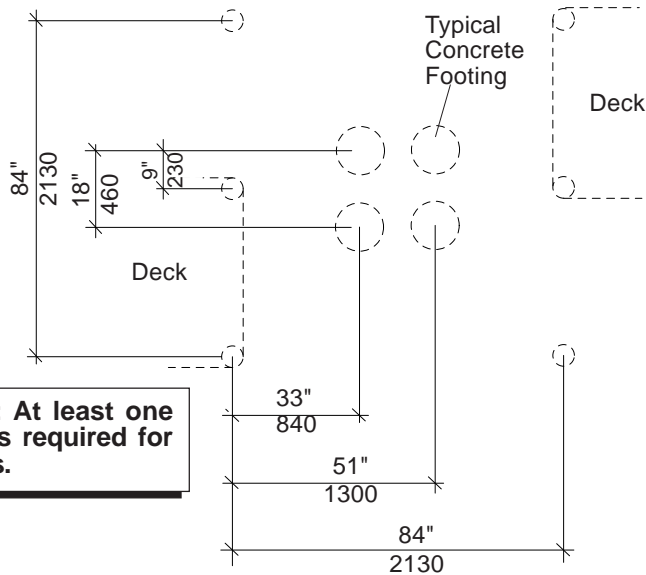
Sheet 1 of 2

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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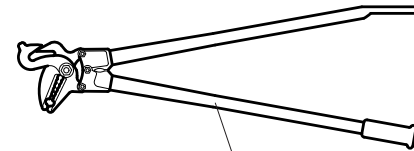
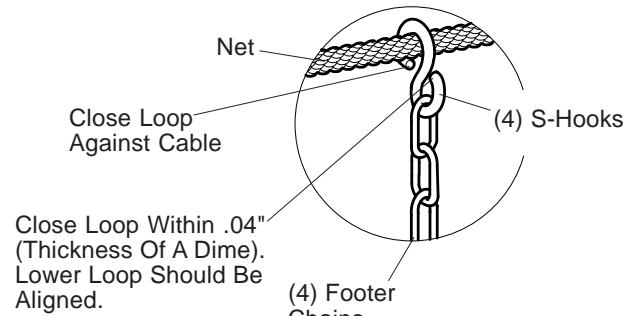
Document #20272100

PLAN VIEW/FOOTING LAYOUT



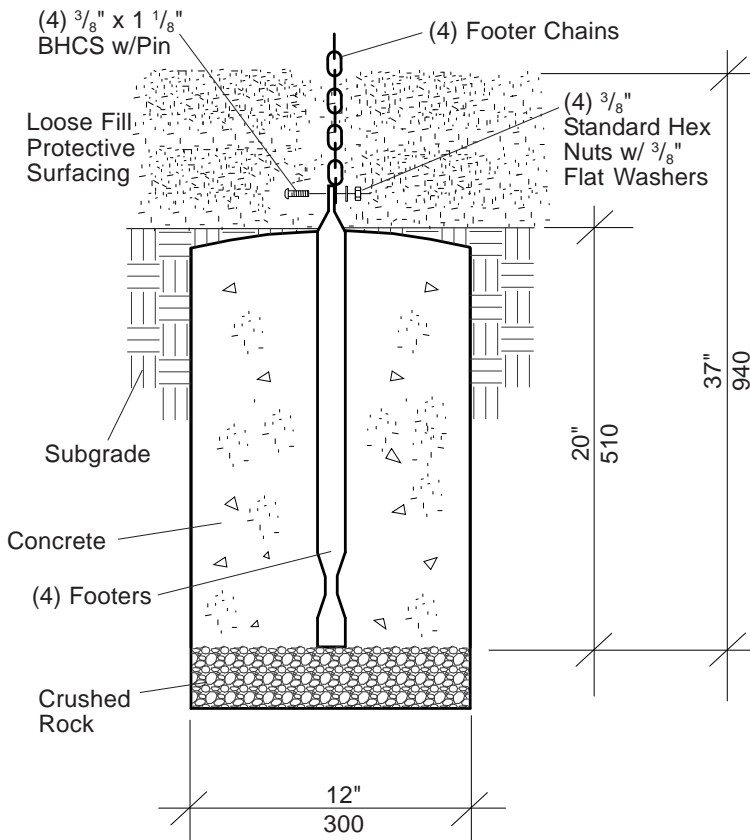
NOTE: At least one deck is required for access.

DETAIL FOOTER CHAIN ATTACHMENT

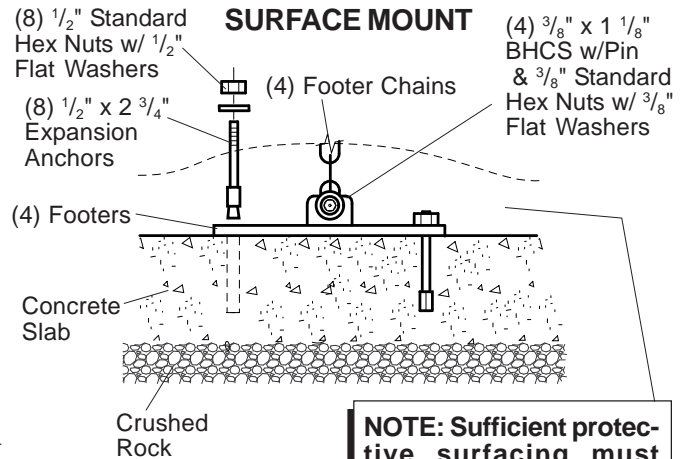


NOTE: Use crimping tool 100652A or equivalent to crimp ends of S-hooks.

DETAIL DIRECT BURY



DETAIL SURFACE MOUNT



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

Parts List

Part#	Description	Qty.
	(Model# 145109 Net)	
171359-00	Net, Specify Color	1
120669-00	Footer, SM, Specify Color	4
145464-00	Footer, DB, Specify Color	4
163493-00	$\frac{3}{16}$ " x 35 $\frac{1}{2}$ " Footer Chain, DB, Specify Color	4
145842-00	$\frac{3}{16}$ " x 22 $\frac{1}{4}$ " Footer Chain, SM, Specify Color	4
105327-01	5" Half Clamp, Specify Color	4
161898-00	Net Clamp, Specify Color	4
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	4
162880-00	Funnel Climber Hardware Package	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	8
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	4
100351-00	$\frac{3}{8}$ " Tee Nut, SST	8
100362-00	$\frac{3}{8}$ " Flat Washer, SST	4
100290-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin Ltd. Thread Bolt, SST	4
100292-00	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/Pin Ltd. Thread Bolt, SST	4
127179-00	$\frac{5}{8}$ " O.D. x $\frac{3}{8}$ " Bushing, SST	4
154943-00	S-Hook, SST	4
138915-00	Bolt Link, SST	4
121348-00	4-Hole (SM) Hardware Package	2
100266-00	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	8
100322-00	$\frac{1}{2}$ " Standard Hex Nut, SST	8
100363-00	$\frac{1}{2}$ " Flat Washer, SST	8
	(Model# 145248 Short Brace)	
105327-01	5" Half Clamp, Specify Color	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
100611-00	$\frac{1}{4}$ " x $\frac{3}{8}$ " Drive Rivet, AL/SST	1
144466-00	42" Brace, Specify Color	1
145468-00	Brace Hardware Package	1
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	2
	(Model# 145249 Long Brace)	
105327-01	5" Half Clamp, Specify Color	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
100611-00	$\frac{1}{4}$ " x $\frac{3}{8}$ " Drive Rivet, AL/SST	1
144467-00	84" Brace, Specify Color	1
145468-00	Brace Hardware Package	1
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	2
	(Model# 145250 Vertical Ladder)	
105327-01	5" Half Clamp, Specify Color	6
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	6
113729-00	Offset Hanger Clamp, SST	6
145284-00	Vertical Ladder, Specify Color	1
145499-00	Vertical Ladder Hardware Package	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	12
100351-00	$\frac{3}{8}$ " Tee Nut, SST	12
100203-00	$\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/Pin, SST	6

(Model# 145251 Handhold Panel)

144204-00	Handhold Panel, Specify Color	2
105327-01	5" Half Clamp, Specify Color	2
113729-00	5" Offset Hanger Clamp, Specify Color	2
113468-00	$\frac{7}{8}$ " O.D. x 1 $\frac{11}{16}$ " Spacer Tube, Specify Color	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
139861-00	Handhold Hardware Package	2
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	6
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	4
124460-00	$\frac{3}{8}$ " x 3 $\frac{3}{4}$ " BHCS w/Pin, SST	2

SM = Surface Mount

DB = Direct Bury

Specifications

Vertical Ladder: Weldment comprised of 1.125" O.D. 11 GA. (.120" wall) steel tubing. Finish: TenderTuff™, color specified.

Net: Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core, color specified. Connector fabricated from 1.250" O.D. 6063-T6 aluminum.

Chain: Steel $\frac{3}{16}$ " straight link chain, 800 lb. working load limit. Finish: TenderTuff, color specified.

Footer: Fabricated from 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing. Finish: ProShield®, color specified.

Brace: Weldment comprised of 1.660" O.D. RS-20 (.085" - .095") galvanized steel tubing and $\frac{1}{4}$ " x 3 $\frac{1}{4}$ " steel half clamps. Finish: ProShield, color specified.

Handhold Panel: Solid color Permalene®, color specified.

Spacer Tube: Made from 6061-T6 aluminum $\frac{7}{8}$ " O.D. x 1 $\frac{11}{16}$ ". Finish: ProShield, color specified.

Net Clamp: Weldment comprised of $\frac{1}{4}$ " x 1 $\frac{3}{4}$ " HRPO flat steel and .375" stainless steel sheet. Finish: ProShield, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: SM - Approx. 2 $\frac{1}{4}$ man hours
DB - Approx. 2 $\frac{1}{2}$ man hours
Add $\frac{1}{2}$ man hour for each vertical ladder

Concrete Req.: Approx. 5 cu. ft.
Weight: Net - 112 lbs.
Short Brace - 12 lbs.
Long Brace - 17 lbs.
Vertical Ladder - 52 lbs.
Handhold Panels - 24 lbs.

Fall Height: Deck Height

Installation Instructions

(Model# 145109 Net)

- 1) **(Direct Bury)** Dig footings to depths and spacing, as shown. Place footers in holes at dimensions shown. With footers plumb, pour concrete and let cure for a minimum of 24 hours before attaching chains to footers and net.
- 2) Attach net clamps to posts at height shown. Refer to the Net to Post Attachment & Clamp Orientation Details.
- 3) Insert $\frac{5}{8}$ " O.D. x $\frac{3}{8}$ " bushings into net clamp tabs. Attach net to net clamps with bushings, using bolt links, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin limited thread and $\frac{3}{8}$ " x $1\frac{1}{4}$ " BHCS w/pin limited thread. Refer to the Net to Post Attachment Detail.
- 4) Attach chains to footers using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " flat washers. Refer to the Footer Attachment Detail.
- 5) Attach S-hooks to ends of footer chains and net. Using a crimping tool 100652A or equivalent, crimp ends of S-hooks. Refer to Footer Chain Attachment Detail.
- 6) **(Surface Mount)** Drill $\frac{1}{2}$ " x 3" deep holes through footer plates using hammer drill and $\frac{1}{2}$ " masonry bit. Tap expansion anchors into drilled holes. Fasten anchor plates to expansion anchors using $\frac{1}{2}$ " standard hex nuts with $\frac{1}{2}$ " flat washers.
- 7) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet
- 8) Install protective surfacing before users are allowed to play on the structure.

(Model# 145248 Short Brace)

- 1) Attach short brace to posts at height shown using 5" half clamps, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin, and $\frac{3}{8}$ " tee nuts. Refer to the Brace Attachment Detail.
- 2) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet
- 3) When attaching brace to brace use $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- 4) Install $\frac{1}{4}$ " x $\frac{3}{8}$ " drive rivet in brace half clamp. Drill through clamp and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.

(Model# 145249 Long Brace)

- 1) Attach long brace to posts at height shown using 5" half clamps, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin, and $\frac{3}{8}$ " tee nuts. Refer to the Brace Attachment Detail.
- 2) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 3) When attaching brace to brace use $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- 4) Install $\frac{1}{4}$ " x $\frac{3}{8}$ " drive rivet in brace half clamp. Drill through clamp and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.

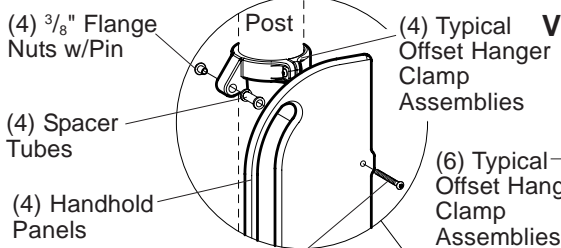
(Model# 145250 Vertical Ladder)

- 1) Attach offset hanger clamp halves to ends of vertical ladder using $\frac{5}{8}$ " x $2\frac{1}{4}$ " BHCS w/pin.
- 2) Attach vertical ladder to posts at height shown using 5" half clamps, $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts.

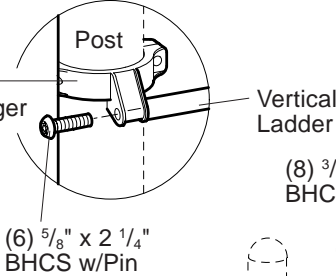
(Model# 145251 Handhold Panel)

- 1) Attach handhold panels to the face of the deck using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " flange nuts w/pin.
- 2) Attach handhold panels to offset hanger clamp assemblies using $\frac{3}{8}$ " x $3\frac{3}{4}$ " BHCS w/pin, spacer tubes and $\frac{3}{8}$ " flange nuts w/pin. See Panel Attachment Detail.
- 3) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.

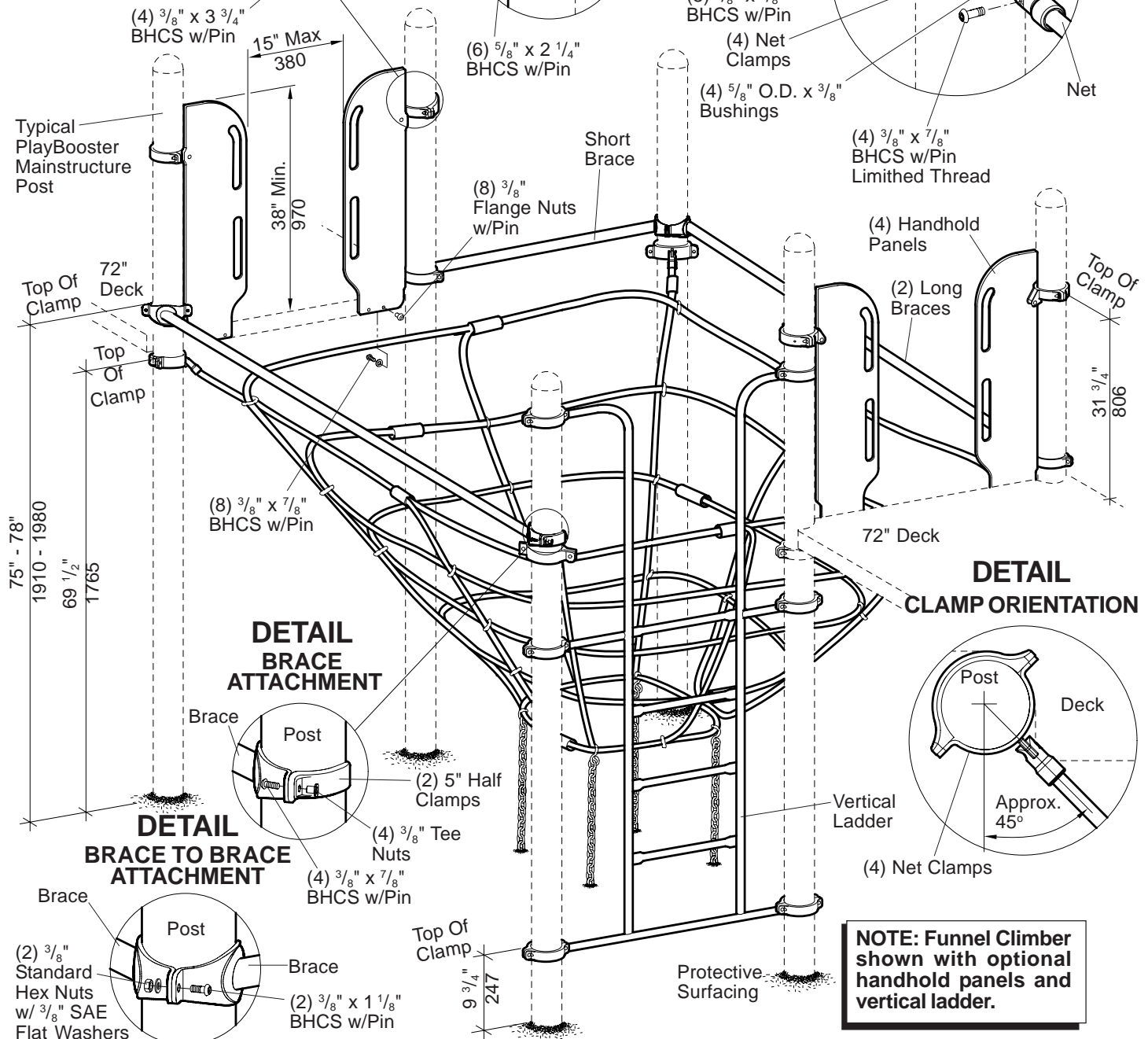
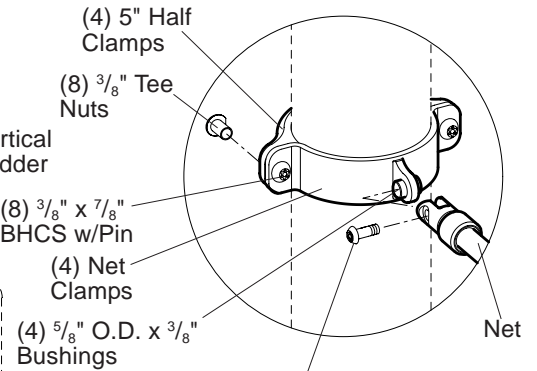
**DETAIL
PANEL ATTACHMENT**



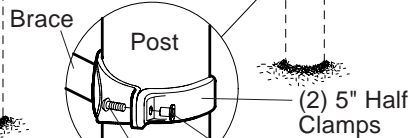
**DETAIL
VERTICAL LADDER ATTACHMENT**



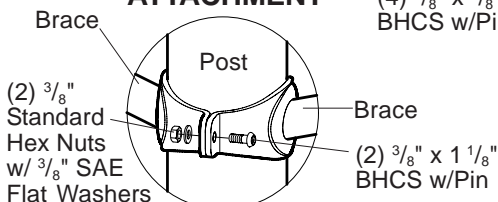
**DETAIL
NET TO POST ATTACHMENT**



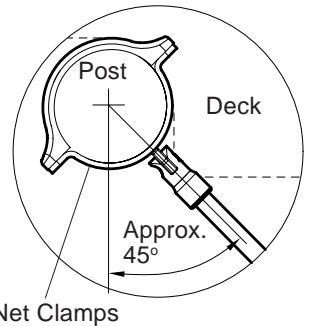
**DETAIL
BRACE ATTACHMENT**



**DETAIL
BRACE TO BRACE ATTACHMENT**

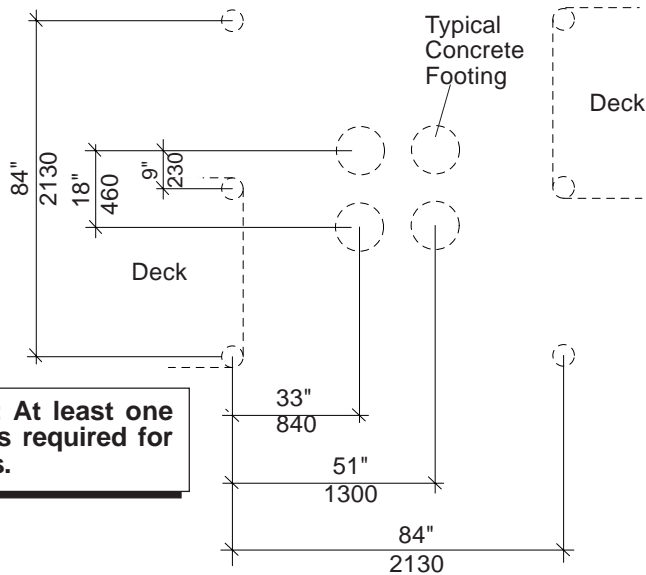


**DETAIL
CLAMP ORIENTATION**



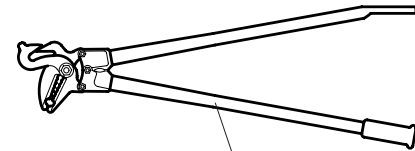
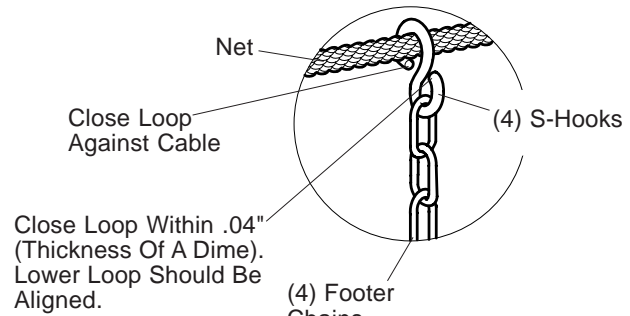
NOTE: Funnel Climber shown with optional handhold panels and vertical ladder.

PLAN VIEW/FOOTING LAYOUT



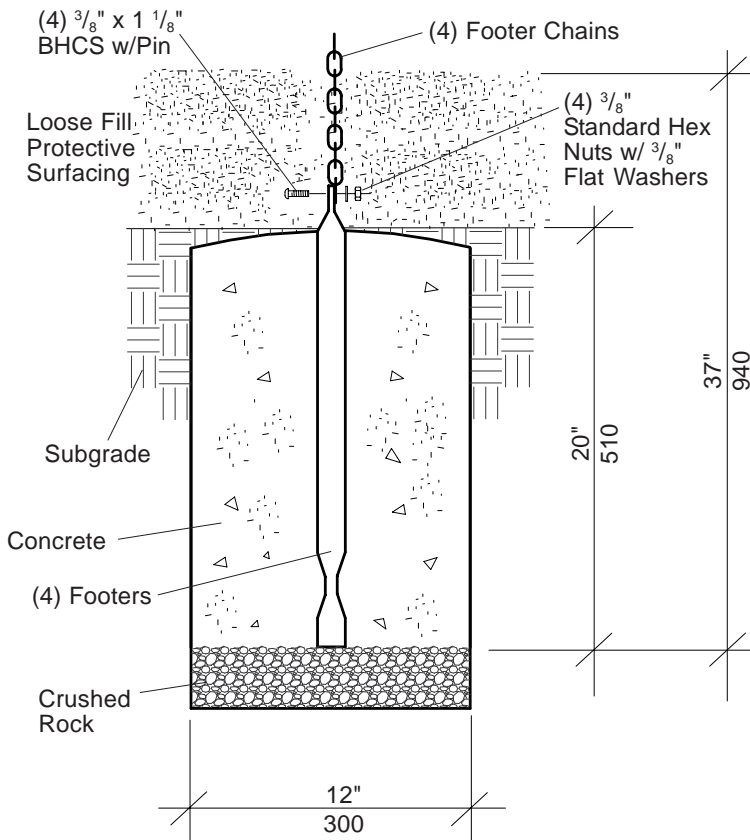
NOTE: At least one deck is required for access.

DETAIL FOOTER CHAIN ATTACHMENT

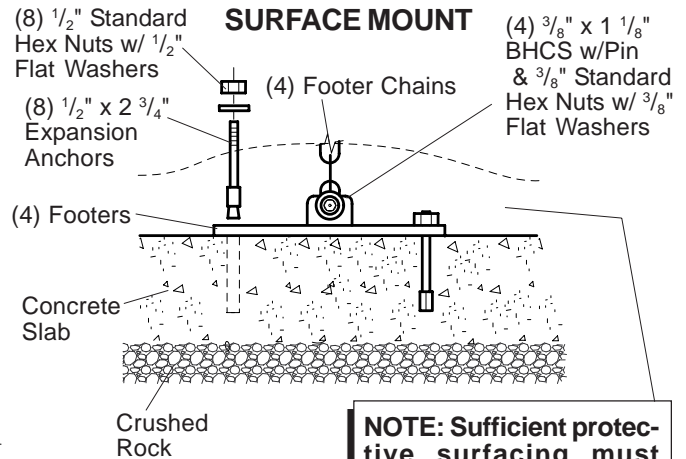


NOTE: Use crimping tool 100652A or equivalent to crimp ends of S-hooks.

DETAIL DIRECT BURY



DETAIL SURFACE MOUNT



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

Parts List

Part#	Description	Qty.
	(Model# 145109 Net)	
171359-00	Net, Specify Color	1
120669-00	Footer, SM, Specify Color	4
145464-00	Footer, DB, Specify Color	4
163493-00	$\frac{3}{16}$ " x 35 $\frac{1}{2}$ " Footer Chain, DB, Specify Color	4
145842-00	$\frac{3}{16}$ " x 22 $\frac{1}{4}$ " Footer Chain, SM, Specify Color	4
105327-01	5" Half Clamp, Specify Color	4
161898-00	Net Clamp, Specify Color	4
100610-00	$\frac{1}{4}$ " x $\frac{3}{8}$ " Drive Rivet, AL/SST	4
162880-00	Funnel Climber Hardware Package	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	8
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	4
100351-00	$\frac{3}{8}$ " Tee Nut, SST	8
100362-00	$\frac{3}{8}$ " Flat Washer, SST	4
100290-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin Ltd. Thread Bolt, SST	4
127179-00	$\frac{5}{8}$ " O.D. x $\frac{3}{8}$ " Bushing, SST	4
154943-00	S-Hook, SST	4
121348-00	4-Hole (SM) Hardware Package	2
100266-00	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	8
100322-00	$\frac{1}{2}$ " Standard Hex Nut, SST	8
100363-00	$\frac{1}{2}$ " Flat Washer, SST	8
	(Model# 145248 Short Brace)	
105327-01	5" Half Clamp, Specify Color	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
100611-00	$\frac{1}{4}$ " x $\frac{3}{8}$ " Drive Rivet, AL/SST	1
144466-00	42" Brace, Specify Color	1
145468-00	Brace Hardware Package	1
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	2
	(Model# 145249 Long Brace)	
105327-01	5" Half Clamp, Specify Color	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
100611-00	$\frac{1}{4}$ " x $\frac{3}{8}$ " Drive Rivet, AL/SST	1
144467-00	84" Brace, Specify Color	1
145468-00	Brace Hardware Package	1
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	2
	(Model# 145250 Vertical Ladder)	
105327-01	5" Half Clamp, Specify Color	6
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	6
113729-00	Offset Hanger Clamp, Specify Color	6
145284-00	Vertical Ladder, Specify Color	1
145499-00	Vertical Ladder Hardware Package	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	12
100351-00	$\frac{3}{8}$ " Tee Nut, SST	12
100203-00	$\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/Pin, SST	6

(Model# 145251 Handhold Panel)

144204-00	Handhold Panel, Specify Color	2
105327-01	5" Half Clamp, Specify Color	2
113729-00	5" Offset Hanger Clamp, Specify Color	2
113468-00	$\frac{7}{8}$ " O.D. x 1 $\frac{11}{16}$ " Spacer Tube, Specify Color	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
139861-00	Handhold Hardware Package	2
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	6
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	4
124460-00	$\frac{3}{8}$ " x 3 $\frac{3}{4}$ " BHCS w/Pin, SST	2

SM = Surface Mount

DB = Direct Bury

Specifications

Vertical Ladder: Weldment comprised of 1.125" O.D. 11 GA. (.120" wall) steel tubing. Finish: TenderTuff™, color specified.

Net: Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core, color specified. Connector fabricated from 1.250" O.D. 6063-T6 aluminum.

Chain: Steel $\frac{3}{16}$ " straight link chain, 800 lb. working load limit. Finish: TenderTuff, color specified.

Footer: Fabricated from 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing. Finish: ProShield®, color specified.

Brace: Weldment comprised of 1.660" O.D. RS-20 (.085" - .095") galvanized steel tubing and $\frac{1}{4}$ " x 3 $\frac{1}{4}$ " steel half clamps. Finish: ProShield, color specified.

Handhold Panel: Solid color Permalene®, color specified.

Spacer Tube: Made from 6061-T6 aluminum $\frac{7}{8}$ " O.D. x 1 $\frac{11}{16}$ ". Finish: ProShield, color specified.

Net Clamp: Weldment comprised of $\frac{1}{4}$ " x 1 $\frac{3}{4}$ " HRPO flat steel and .375" stainless steel sheet. Finish: ProShield, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: **SM** - Approx. 2 $\frac{1}{4}$ man hours
DB - Approx. 2 $\frac{1}{2}$ man hours
Add $\frac{1}{2}$ man hour for each vertical ladder

Concrete Req.: Approx. 5 cu. ft.

Weight: Net - 112 lbs.

Short Brace - 12 lbs.

Long Brace - 17 lbs.

Vertical Ladder - 52 lbs.

Handhold Panels - 24 lbs.

Fall Height: Deck Height

Installation Instructions

(Model# 145109 Net)

- 1) **(Direct Bury)** Dig footings to depths and spacing, as shown. Place footers in holes at dimensions shown. With footers plumb, pour concrete and let cure for a minimum of 24 hours before attaching chains to footers and net.
- 2) Attach net clamps to posts at height shown, using 5" half clamps, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet & Clamp Orientation Detail.
- 3) Insert $\frac{5}{8}$ " O.D. x $\frac{3}{8}$ " bushings into net clamp tabs. Attach net to net clamps with bushings, using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin limited thread. Refer to the Net to Post Attachment Detail.
- 4) Attach chains to footers using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " flat washers. Refer to the Footer Attachment Detail.
- 5) Attach S-hooks to ends of footer chains and net. Using a crimping tool 100652A or equivalent, crimp ends of S-hooks. Refer to Footer Chain Attachment Detail.
- 6) **(Surface Mount)** Drill $\frac{1}{2}$ " x 3" deep holes through footer plates using hammer drill and $\frac{1}{2}$ " masonry bit. Tap expansion anchors into drilled holes. Fasten anchor plates to expansion anchors using $\frac{1}{2}$ " standard hex nuts with $\frac{1}{2}$ " flat washers.
- 7) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet
- 8) Install protective surfacing before users are allowed to play on the structure.

(Model# 145248 Short Brace)

- 1) Attach short brace to posts at height shown using 5" half clamps, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin, and $\frac{3}{8}$ " tee nuts. Refer to the Brace Attachment Detail.
- 2) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet
- 3) When attaching brace to brace use $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- 4) Install $\frac{1}{4}$ " x $\frac{3}{8}$ " drive rivet in brace half clamp. Drill through clamp and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.

(Model# 145249 Long Brace)

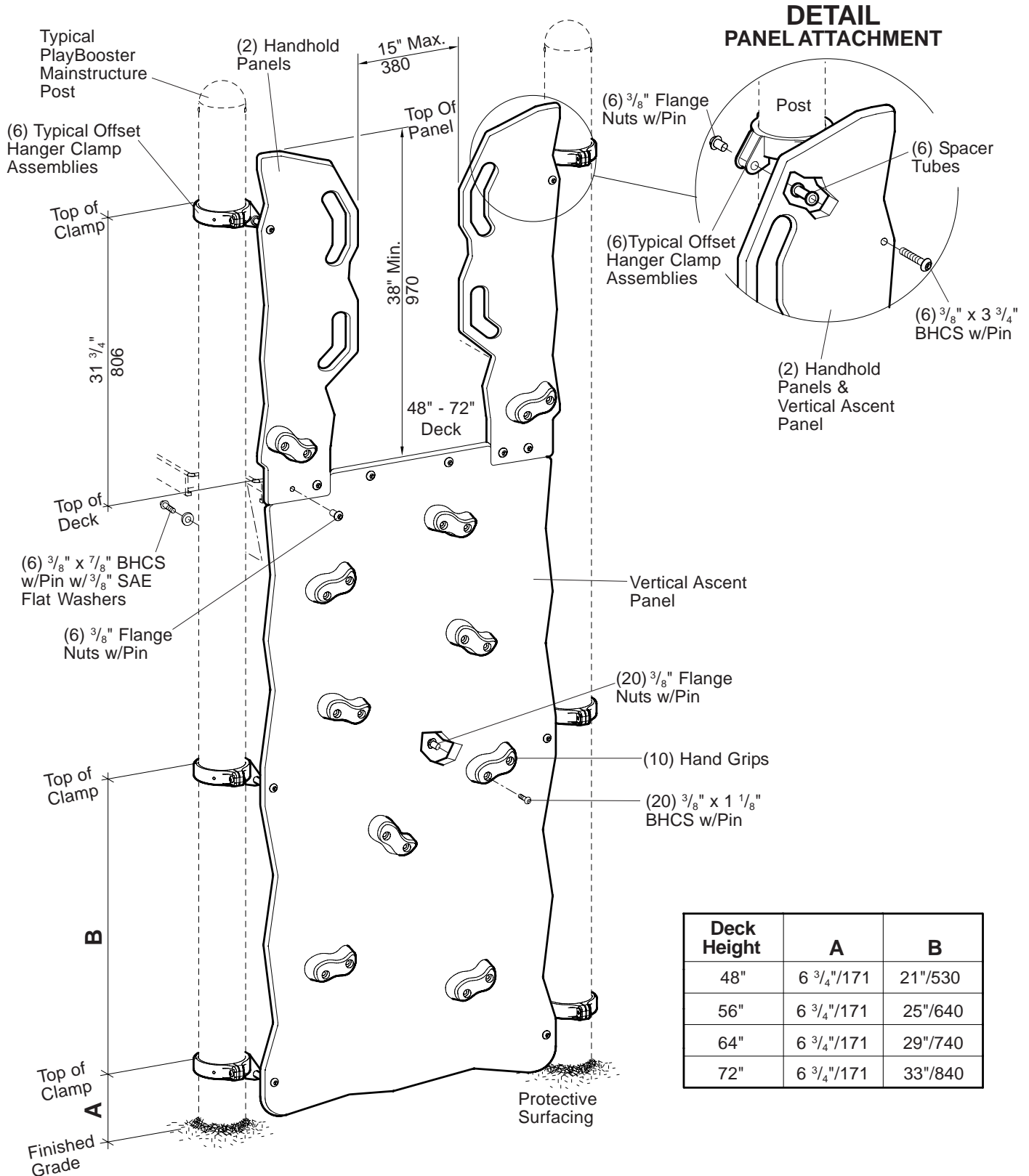
- 1) Attach long brace to posts at height shown using 5" half clamps, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin, and $\frac{3}{8}$ " tee nuts. Refer to the Brace Attachment Detail.
- 2) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 3) When attaching brace to brace use $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- 4) Install $\frac{1}{4}$ " x $\frac{3}{8}$ " drive rivet in brace half clamp. Drill through clamp and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.

(Model# 145250 Vertical Ladder)

- 1) Attach offset hanger clamp halves to ends of vertical ladder using $\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/pin.
- 2) Attach vertical ladder to posts at height shown using 5" half clamps, $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts.

(Model# 145251 Handhold Panel)

- 1) Attach handhold panels to the face of the deck using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " flange nuts w/pin.
- 2) Attach handhold panels to offset hanger clamp assemblies using $\frac{3}{8}$ " x 3 $\frac{3}{4}$ " BHCS w/pin, spacer tubes and $\frac{3}{8}$ " flange nuts w/pin. See Panel Attachment Detail.
- 3) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.



Deck Height	A	B
48"	6 3/4"/171	21"/530
56"	6 3/4"/171	25"/640
64"	6 3/4"/171	29"/740
72"	6 3/4"/171	33"/840

Parts List

Part#	Description	Qty.
182957-00	Vertical Ascent Handhold Panel, Specify Color	2
145597-00	Vertical Ascent Panel, 48" Deck, Specify Color	1
145596-00	Vertical Ascent Panel, 56" Deck, Specify Color	1
145595-00	Vertical Ascent Panel, 64" Deck, Specify Color	1
145585-00	Vertical Ascent Panel, 72" Deck, Specify Color	1
105327-01	5" Half Clamp, Specify Color	6
113729-00	Offset Hanger Clamp, Specify Color	6
113468-00	Spacer Tube, Specify Color	6
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	6
145792-00	Hand Grip Set	1
143110-00	Hand Grip, Blue	2
143110-00	Hand Grip, Yellow	2
143110-00	Hand Grip, Red	3
143110-00	Hand Grip, Green	3
145616-00	Vertical Ascent Hardware Package	1
100196-00	3/8" x 7/8" BHCS w/Pin, SST	6
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	32
100351-00	3/8" Tee Nut, SST	12
100353-00	3/8" Flange Nut w/Pin, SST	32
100365-00	3/8" SAE Flat Washer, SST	6
124460-00	3/8" x 3 3/4" BHCS w/Pin, SST	6

Specifications

Hand Grip: Made from Polyester Resin. Hand Grips measure approx. 5 3/4" long x 2 1/4" wide x 1 3/4" high.

Panels: Solid color Permalene®, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" O.D. Finish: ProShield®, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 2 man hours

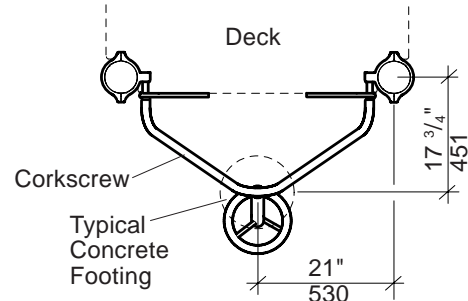
Weight: 48" Deck Height - 83 lbs.
56" Deck Height - 91 lbs.
64" Deck Height - 99 lbs.
72" Deck Height - 106 lbs.

Fall Height: 53 1/2"/1358 (48" Deck Height)
61 1/2"/1562 (56" Deck Height)
69 1/2"/1765 (64" Deck Height)
77 1/2"/1968 (72" Deck Height)

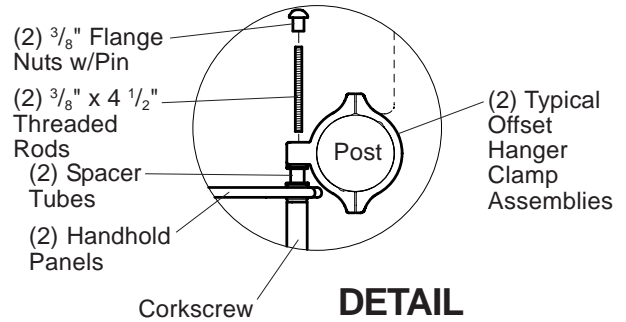
Installation Instructions

- 1) Attach handhold panels and vertical ascent panel to deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin, as shown.
- 2) Attach handhold panels and vertical ascent panel to offset hanger clamps using 3/8" x 3 3/4" BHCS w/pin, spacer tubes and 3/8" flange nuts w/pin. Refer to the Panel Attachment Detail.
- 3) Attach offset hanger clamps to posts at heights shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 4) Attach hand grips to handhold panels and vertical ascent panel using 3/8" x 1 1/8" BHCS w/pin and 3/8" flange nuts w/pin, as shown.
- 5) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.

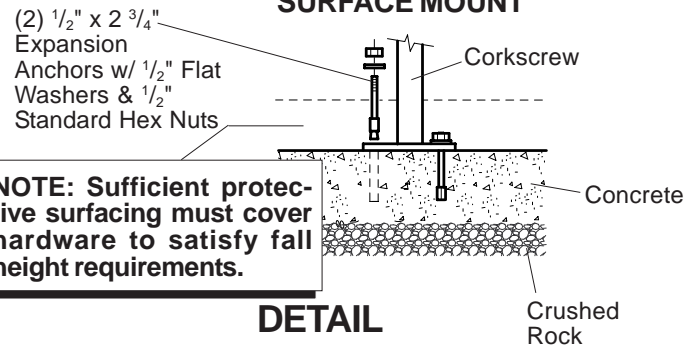
PLAN VIEW/ FOOTING LAYOUT



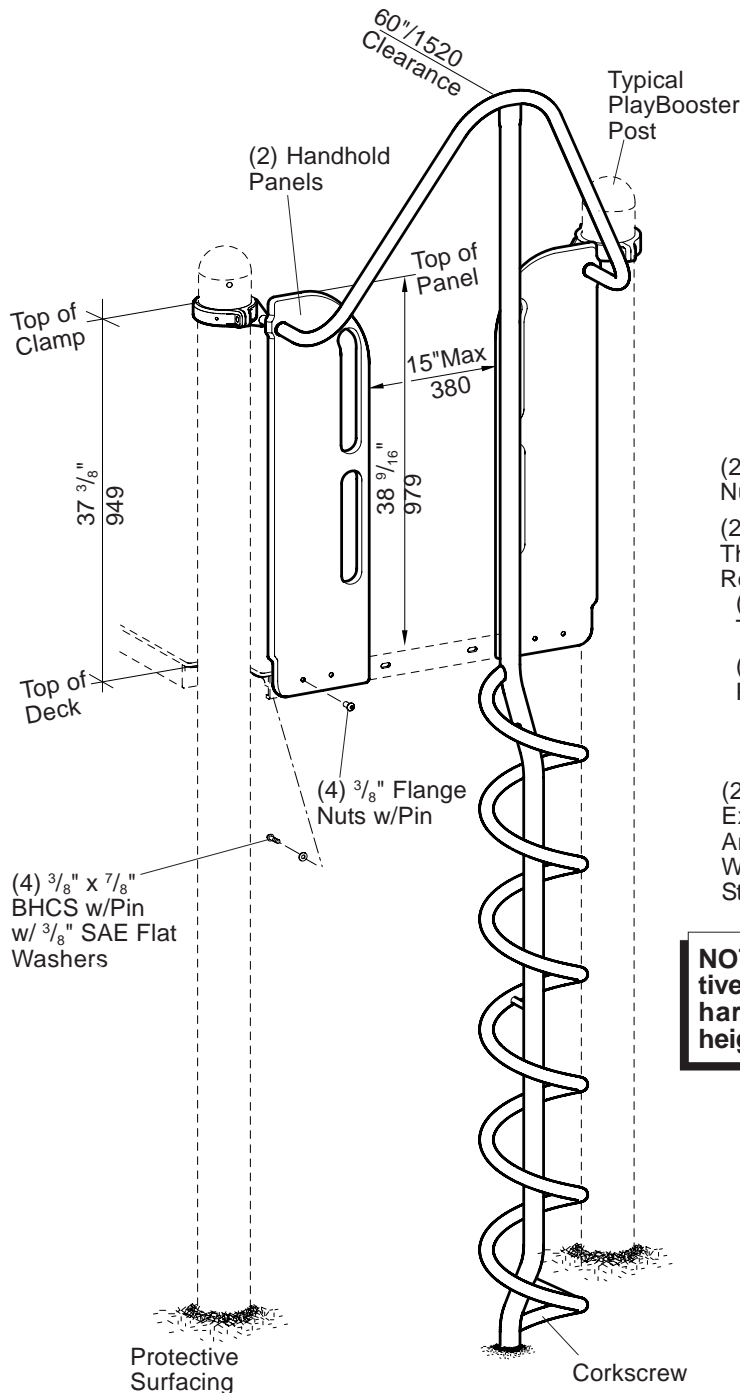
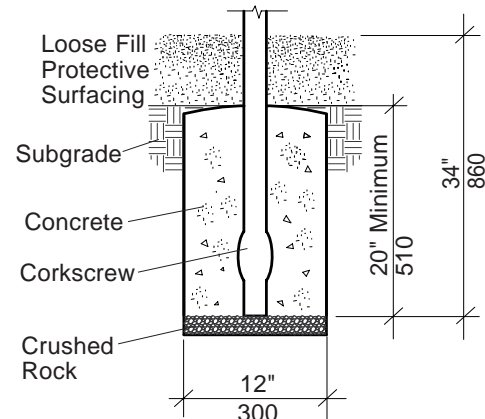
DETAIL HANDHOLD PANEL ATTACHMENT



DETAIL SURFACE MOUNT



DETAIL DIRECT BURY



72" Deck Height Shown

PlayBooster®

148432 Corkscrews, 32"-72" Decks

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

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Document #14814600

Parts List

Part#	Description	Qty.
147954-00	Handhold Panel, Specify Color	2
105327-01	5" Half Clamp, Specify Color	2
113729-00	Offset Hanger Clamp, Specify Color	2
147941-00	Corkscrew, 32" Deck (DB), Specify Color	1
147942-00	Corkscrew, 40" Deck (DB), Specify Color	1
147943-00	Corkscrew, 48" Deck (DB), Specify Color	1
146511-00	Corkscrew, 56" Deck (DB), Specify Color	1
146512-00	Corkscrew, 64" Deck (DB), Specify Color	1
146513-00	Corkscrew, 72" Deck (DB), Specify Color	1
146514-00	Corkscrew, 32" Deck (SM), Specify Color	1
146515-00	Corkscrew, 40" Deck (SM), Specify Color	1
146516-00	Corkscrew, 48" Deck (SM), Specify Color	1
146517-00	Corkscrew, 56" Deck (SM), Specify Color	1
146518-00	Corkscrew, 64" Deck (SM), Specify Color	1
146519-00	Corkscrew, 72" Deck (SM), Specify Color	1
113468-00	$\frac{7}{8}$ " O.D. x 1 $\frac{11}{16}$ " Spacer Tube, Specify Color	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
148176-00	Pole Hardware Package	1
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	6
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	4
148081-00	$\frac{3}{8}$ " x 4 $\frac{1}{2}$ " Threaded Rod, SST	2
111392-00	2-Hole (SM) Hardware Package	1
100266-00	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchors	2
100322-00	$\frac{1}{2}$ " Standard Hex Nut, SST	2
100363-00	$\frac{1}{2}$ " Flat Washer, SST	2

DB = Direct Bury

SM = Surface Mount

Specifications

Corkscrew: Weldment comprised of 1.900" O.D. RS-20 (.090" - .100") galvanized steel tubing, and 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing. Finish: ProShield®, color specified.

Handhold Panel: Solid color Permalene®, color specified.

Spacer Tube: Made from 6061-T6 aluminum $\frac{7}{8}$ " O.D. x 1 $\frac{11}{16}$ ". Finish: ProShield, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: SM - Approx. 1 $\frac{1}{2}$ man hours

DB - Approx. 2 man hours

Concrete Req.: Approx. 1.3 cu. ft.

Weight: 67 lbs. (32"-48" Deck)

79 lbs. (56"-72" Deck)

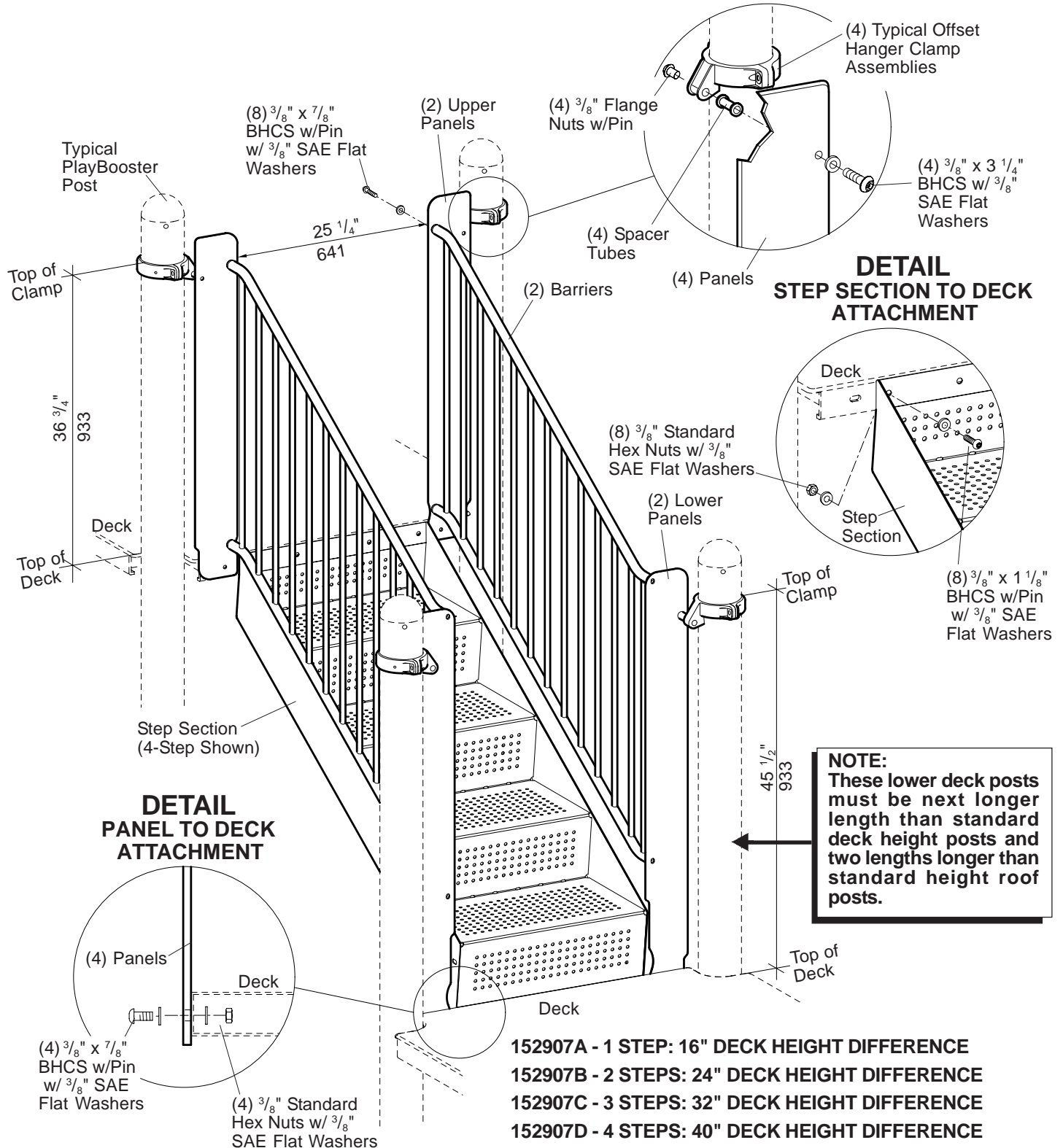
Fall Height: 48" (1220 mm) - (32", 40" & 48" Deck Heights)

72" (1830 mm) - (56", 64" & 72" Deck Heights)

Installation Instructions

- (Direct Bury)** Dig footing hole as shown. Refer to the Plan View/Footing Layout.
 - Attach offset hanger clamps to posts at heights shown using 5" half clamps, $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
 - Attach handhold panels to the face of the deck using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " flange nuts w/pin.
 - Attach corkscrew to handhold panels and offset hanger clamps using $\frac{3}{8}$ " flange nuts w/pin, $\frac{3}{8}$ " x 4 $\frac{1}{2}$ " threaded rods and spacer tubes. Refer to the Handhold Panel Attachment Detail. **NOTE:** Turn $\frac{3}{8}$ " x 4 $\frac{1}{2}$ " threaded rod into $\frac{3}{8}$ " flange nut w/pin until it bottoms out, before attaching corkscrew.
 - (Direct Bury)** With corkscrew plumb, pour concrete footing. Allow concrete footing to cure a minimum of 72 hours before users are allowed to play on the structure.
- (Surface Mount)** Drill $\frac{1}{2}$ " x 3" deep holes through support plate using hammer drill and $\frac{1}{2}$ " masonry bit. Tap expansion anchors into drilled holes. Fasten support plates to expansion anchors using $\frac{1}{2}$ " standard hex nuts with $\frac{1}{2}$ " flat washers.
- Install protective surfacing before users are allowed to play on the structure.

**DETAIL
PANEL TO CLAMP
ATTACHMENT**



Parts List

Part#	Description	Qty.
144696-00	1-Step Section, Specify Color	1
144698-00	2-Step Section, Specify Color	1
144700-00	3-Step Section, Specify Color	1
144702-00	4-Step Section, Specify Color	1
144703-00	1-Step Barrier, Specify Color	2
144705-00	2-Step Barrier, Specify Color	2
144707-00	3-Step Barrier, Specify Color	2
144709-00	4-Step Barrier, Specify Color	2
153896-00	Lower Panel, Specify Color	2
153895-00	Upper Panel, Specify Color	2
113468-00	Spacer Tube, Specify Color	4
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	4
105327-01	5" Half Clamp, Specify Color	4
113729-00	Offset Hanger Clamp, Specify Color	4
156283-00	Deck Link Barr/Hrail Hardware Package	1
100168-00	3/8" x 3 1/4" BHCS, SST	4
100196-00	3/8" x 7/8" BHCS w/Pin, SST	12
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	16
100327-00	3/8" Standard Hex Nut, SST	12
100351-00	3/8" Tee Nut, SST	8
100353-00	3/8" Flange Nut w/Pin, SST	4
100365-00	3/8" SAE Flat Washer, SST	36

Specifications

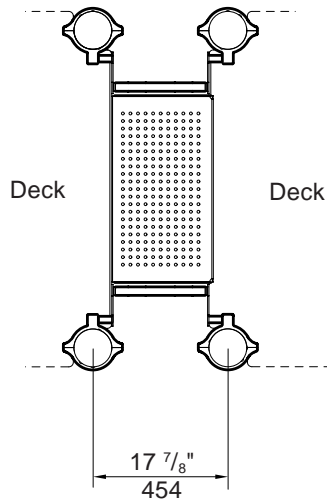
Panels:	Zinc plated 7 GA. (.179") HR flat steel. Finish: ProShield®, color specified.
Step Section:	Formed from 12 GA (.105) sheet steel conforming to ASTM A1011. Standing surface is 24 3/8" wide x 14" deep and is perforated with 5/16" diameter holes. Finish: TenderTuff, color specified.
Barrier:	Weldment comprised of 1.125" O.D. x 11 Ga. (.120" wall) steel tubing, 5/8" O.D. steel bar with 203 or 303 stainless steel inserts with 3/8" internal threads. Finish: TenderTuff, color specified.
Spacer Tube:	Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". Finish: ProShield, color specified.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 1 1/2 man hours
Weight:	1-Step - 130 lbs. 2-Step - 182 lbs. 3-Step - 236 lbs. 4-Step - 296 lbs.
Fall Height:	Deck Height

Installation Instructions

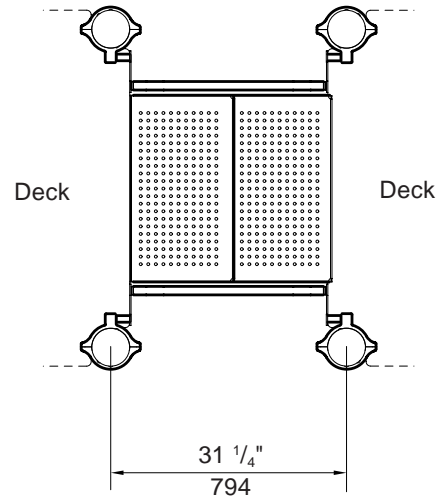
- 1) Attach step section to decks using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers, as shown. Refer to the Step Section To Deck Attachment Detail.
- 2) Attach upper and lower panels to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to the Panel to Deck Attachment Detail.
- 3) Attach offset hanger clamps to posts at heights shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 4) Attach upper and lower panels to offset hanger clamps using 3/8" x 3 1/4" BHCS with 3/8" SAE flat washers, spacer tubes and 3/8" flange nuts w/pin. Refer to the Panel To Clamp Attachment Detail.
- 5) Attach barriers to upper and lower panels using 3/8" x 7/8" BHCS w/pin and 3/8" SAE flat washers, as shown.
- 6) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 7) Install protective surfacing before users are allowed to play on the structure.

PLAN VIEW/FOOTING LAYOUTS

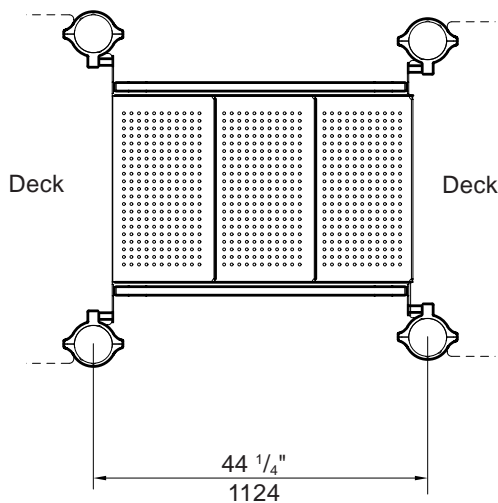
FOOTINGS/ 1-STEP



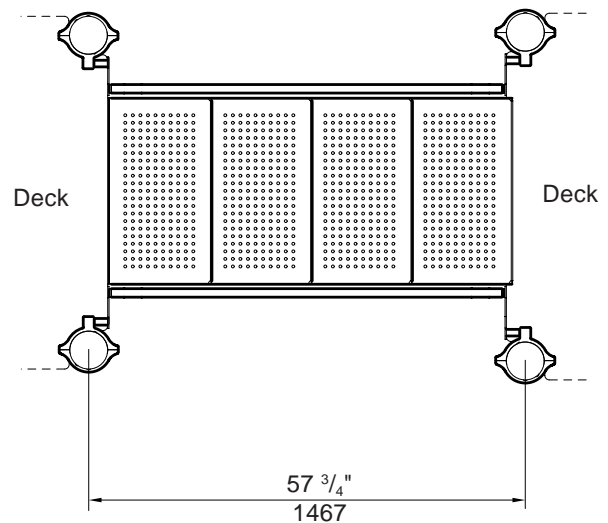
FOOTINGS/ 2-STEP

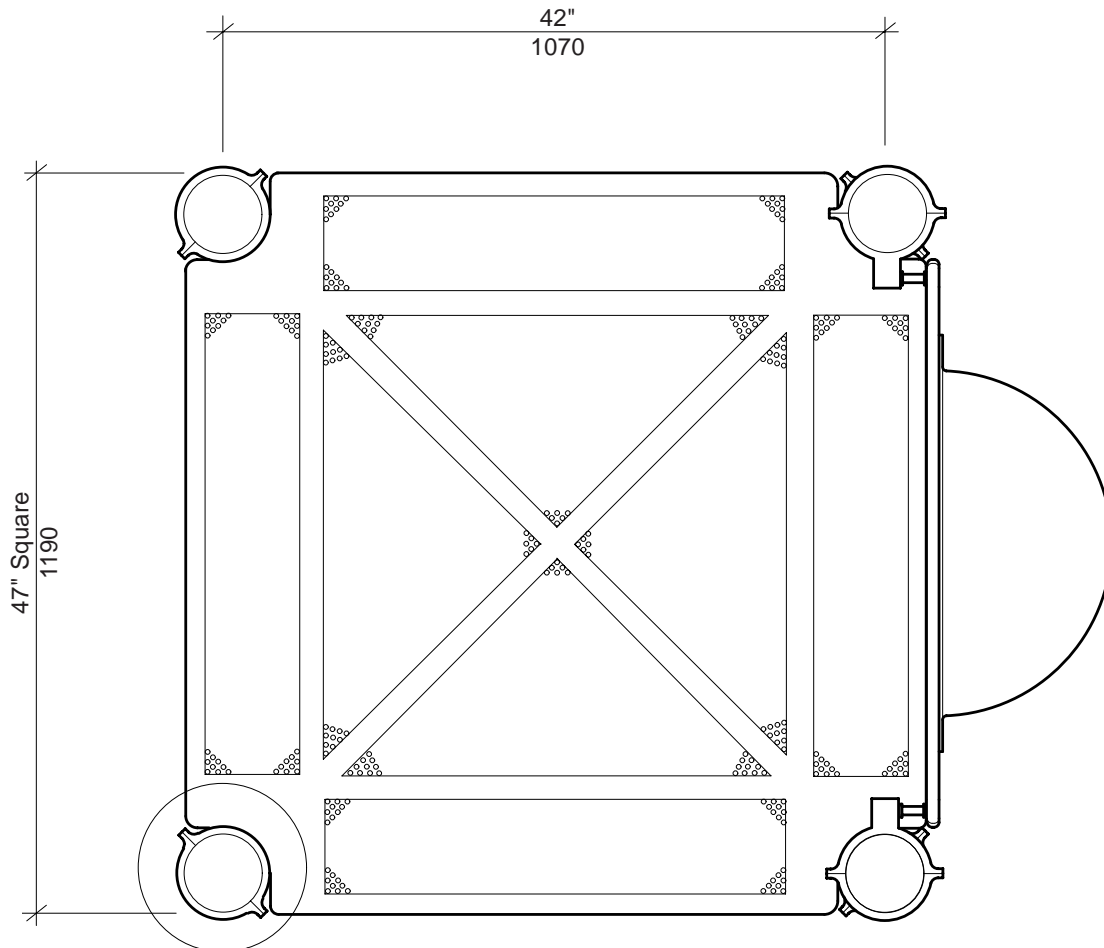


FOOTINGS/ 3-STEP



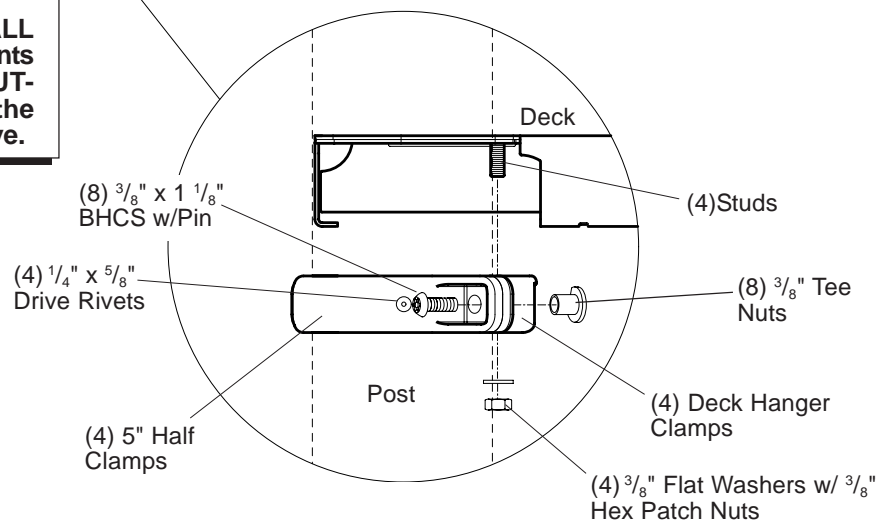
FOOTINGS/ 4-STEP





**DETAIL
DECK HANGER CLAMP**

NOTE:
When using this deck, **ALL** enclosures and components are mounted on the **OUT-SIDE** of the posts like the bubble panel shown above.



Parts List

Part#	Description	Qty.
145656-00	Tenderdeck, Specify Color	1
105327-01	5" Half Clamp, Specify Color	4
106022-00	5" Deck Hanger Clamp, Specify Color	4
119491-00	Hardware Package	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	8
100321-00	$\frac{3}{8}$ " Hex Patch Nut, SST	4
100351-00	$\frac{3}{8}$ " Tee Nut, SST	8
100362-00	$\frac{3}{8}$ " Flat Washer, SST	4
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, SST	4

Specifications

Square Deck: Flange formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is perforated with $\frac{5}{16}$ " diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 $\frac{5}{8}$ " x 47" x 47". Finish: TenderTuff™, color specified.

Deck Hanger

Clamp Assembly: Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

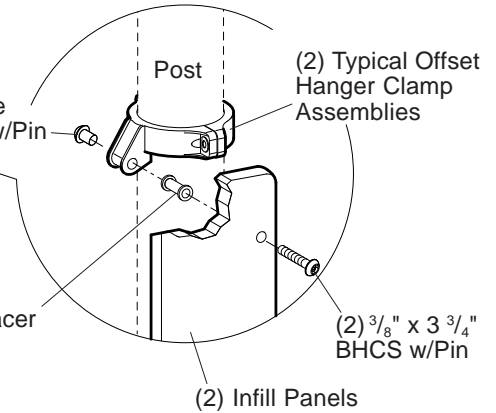
Installation Time: Approx. 1 man hour

Weight: 119 lbs.

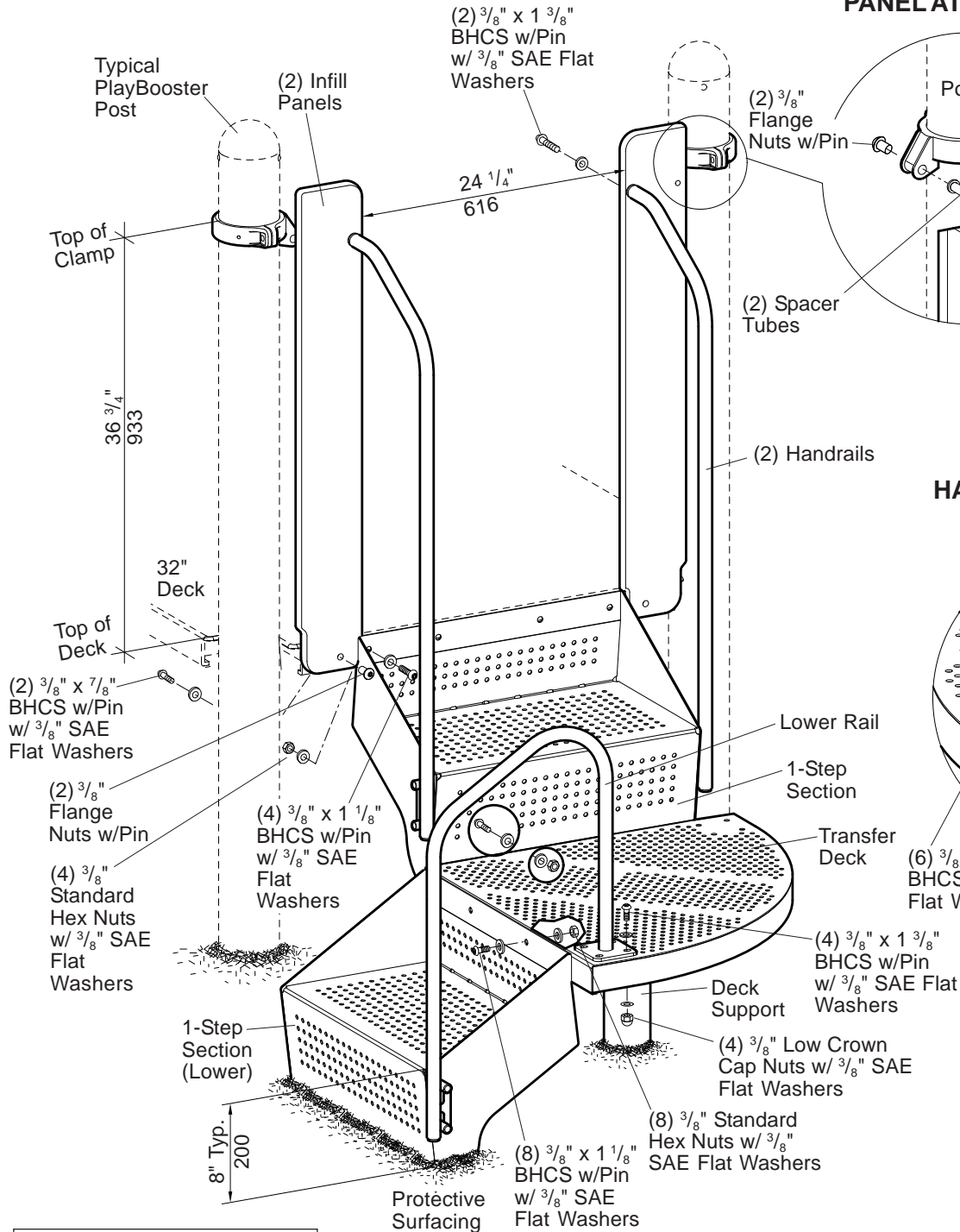
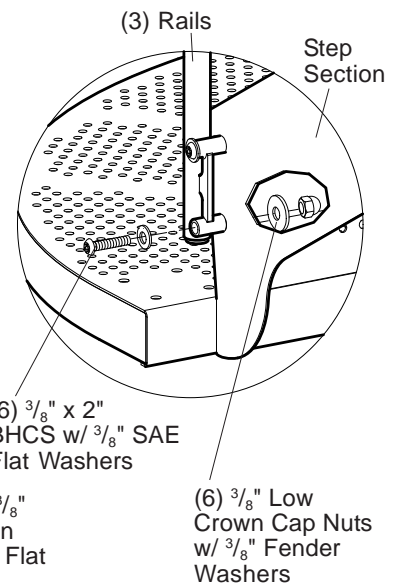
Installation Instructions

- 1) Mark posts for the appropriate height of the deck you are installing.
- 2) Fasten hanger clamps to marked position on posts. See Detail on front of sheet.
- 3) Lift deck into position, lining up studs underneath deck with deck hanger clamp as shown. Attach with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " hex patch nuts.
- 4) Level deck and plumb posts. Install the drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 5) After all enclosures/components are installed, pour concrete footings per the Typical Concrete Footing Detail Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.

DETAIL PANEL ATTACHMENT



DETAIL HANDRAIL ATTACHMENT



NOTE: Protective surfacing adjacent to the transfer deck must be accessible.

Parts List

Part#	Description	Qty.
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
105327-01	5" Half Clamp, Specify Color	2
113468-00	$\frac{7}{8}$ " O.D. x $1\frac{1}{16}$ " Spacer Tube, Specify Color	2
113729-00	Offset Hanger Clamp, Specify Color	2
181371-00	Deck Support (DB), Specify Color	1
181373-00	Deck Support (SM), Specify Color	1
181374-00	Step Support (DB), Specify Color	1
181376-00	Step Support (SM), Specify Color	1
144696-00	1-Step Section, Specify Color	2
152638-00	1-Step Handrail, Specify Color	2
152641-00	Lower Rail, Specify Color	1
153398-00	Transfer Deck, Specify Color	1
153885-00	Infill Panel, Specify Color	2
204034-00	Transfer Module Hardware Package	1
100173-00	$\frac{3}{8}$ " x 2" BHCS, SST	6
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198-00	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	20
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	16
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	4
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	54
113027-00	$\frac{3}{8}$ " x $1\frac{3}{8}$ " BHCS w/Pin, SST	8
124460-00	$\frac{3}{8}$ " x $3\frac{3}{4}$ " BHCS w/Pin, SST	2
100378-00	$\frac{3}{8}$ " Fender Washer, SST	6
100349-00	$\frac{3}{8}$ " Low Crown Cap Nut, SST	12
111393-00	4-Hole (SM) Hardware Package	1
100263-00	$\frac{3}{8}$ " x $2\frac{3}{4}$ " Expansion Anchors	4
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	4
100365-00	$\frac{3}{8}$ " SAE Flat Washers, SST	4
121256-00	2-Hole (SM) Hardware Package	1
100263-00	$\frac{3}{8}$ " x $2\frac{3}{4}$ " Expansion Anchors	2
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	2
100365-00	$\frac{3}{8}$ " SAE Flat Washers, SST	2

DB=Direct Bury
SM=Surface Mount

Specifications

Deck:	Flange formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is perforated with $\frac{5}{16}$ " diameter holes and measure 29" per (2) sides. Finish: TenderTuff™, color specified.
Railings:	Weldment comprised of formed $1\frac{1}{8}$ " O.D. x 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts with $\frac{3}{8}$ " internal threads. Finish: TenderTuff, color specified.
Step Sections:	Formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is $24\frac{3}{8}$ " wide x $14\frac{1}{2}$ " deep and is perforated with $\frac{5}{16}$ " diameter holes. Finish: TenderTuff, color specified.
Panel:	Solid color Permalene® panel, color specified.
Deck Support:	Weldment comprised of $3\frac{1}{2}$ " O.D. RS-20 (.125") galvanized steel tubing and $\frac{3}{8}$ " O.D. x 5" long rod. Finish: ProShield®, color specified.
Step Support:	Weldment comprised of 1.660 O.D. RS20 (.080"-.095) and $1\frac{3}{4}$ " x $1\frac{3}{4}$ " x $\frac{1}{8}$ " HR angle. Finish: ProShield, color specified.
Spacer Tube:	Made from 6061-T6 aluminum $\frac{7}{8}$ " O.D. x $1\frac{1}{16}$ ". Finish: ProShield, color specified.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

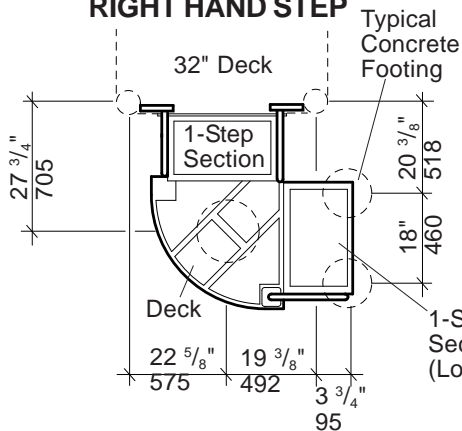
Installation Time:	SM - Approx. 3 man hours DB - Approx. 4 man hours
Concrete Req.:	Approx. 3.4 cu. ft.
Weight:	SM - 180 lbs. DB - 195 lbs.
Fall Height:	Deck Height

Installation Instructions

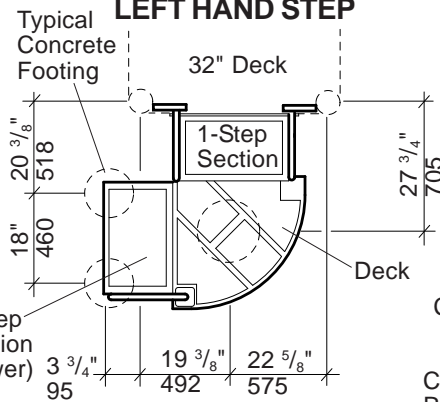
- (Direct Bury)** Dig footings as shown. Refer to your Plan View/Footing Layout.
- Attach the deck support to the transfer deck using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " SAE flat washers. **NOTE: Make sure $\frac{3}{8}$ " rod on support is under support strap on deck as shown.** Refer to the Deck Support Attachment Detail.
- Attach the 1-step section to the transfer deck using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- Attach the 1-step section to the face of the mainstructure deck using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- Attach the step support to the 1-step section (lower) using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers. Refer to the Step Support Attachment Detail.
- Attach the 1-step section (lower) to the transfer deck using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- Attach offset hanger clamps to posts at heights shown using 5" half clamps, $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- Attach infill panels to the face of the mainstructure deck using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " flange nuts w/pin.
- Attach infill panels to offset hanger clamp assemblies using $\frac{3}{8}$ " x $3\frac{3}{4}$ " BHCS, spacer tubes and $\frac{3}{8}$ " flange nuts w/pin. See Panel Attachment Detail.
- Attach the handrails to the steps using $\frac{3}{8}$ " x 2" BHCS with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " fender washers. Refer to the Handrail Attachment Detail.
- Attach the handrails to the infill panels using $\frac{3}{8}$ " x $1\frac{3}{8}$ " BHCS w/pin and $\frac{3}{8}$ " SAE flat washers.
- Attach the lower rail to the transfer deck using $\frac{3}{8}$ " x $1\frac{3}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " SAE flat washers.
- Attach the lower rail to the 1-step section (lower) using $\frac{3}{8}$ " x 2" BHCS with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " fender washers. Refer to the Handrail Attachment Detail.
- (Direct Bury)** With transfer deck and steps level and supports plumb, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) Mark holes for expansion anchors on concrete slab through support plates. Detach the module from the mainstructure and slide module aside, drill $\frac{3}{8}$ " x 3" deep holes on marks using hammer drill and $\frac{3}{8}$ " masonry bit. Reposition module over drilled holes and tap expansion anchors into drilled holes. Fasten support plates to expansion anchors using $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers. Reattach module to structure.

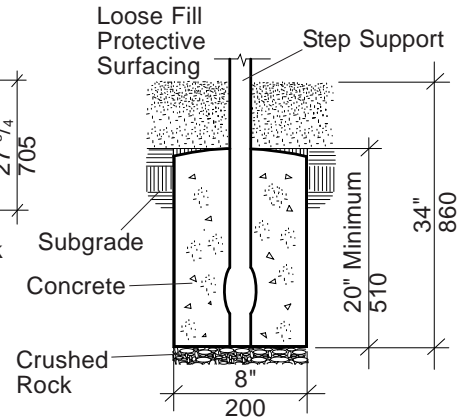
**PLAN VIEW
FOOTING LAYOUT
RIGHT HAND STEP**



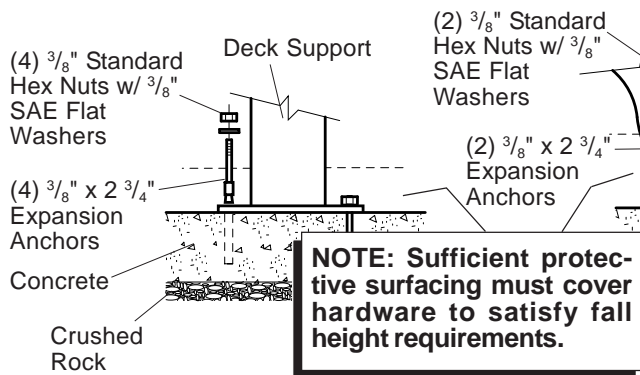
**PLAN VIEW
FOOTING LAYOUT
LEFT HAND STEP**



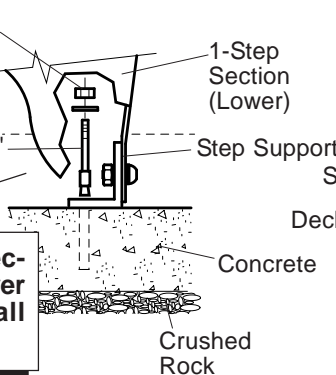
**DETAIL
STEP SUPPORT BURY**



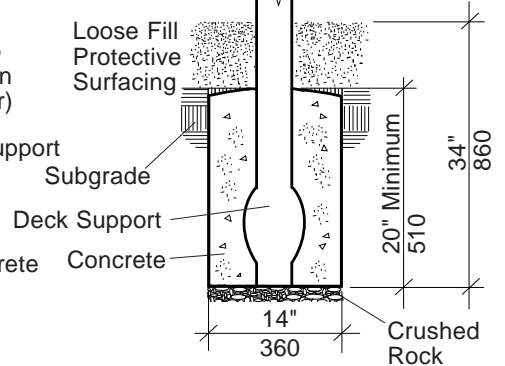
**DETAIL
SURFACE MOUNT**



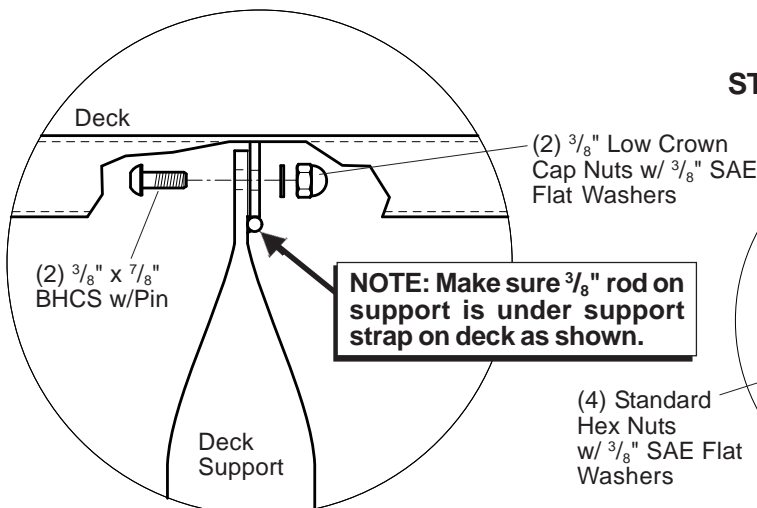
**DETAIL
SURFACE MOUNT
STEP SUPPORT**



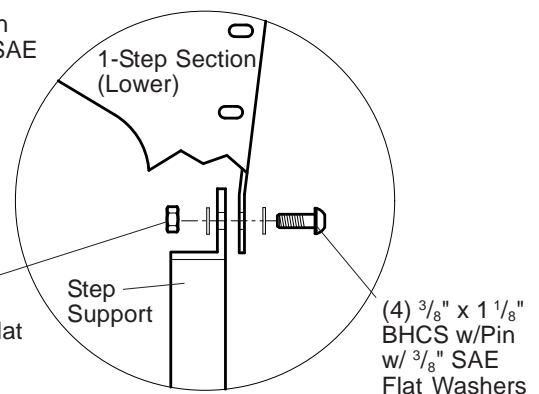
**DETAIL
DECK SUPPORT BURY**

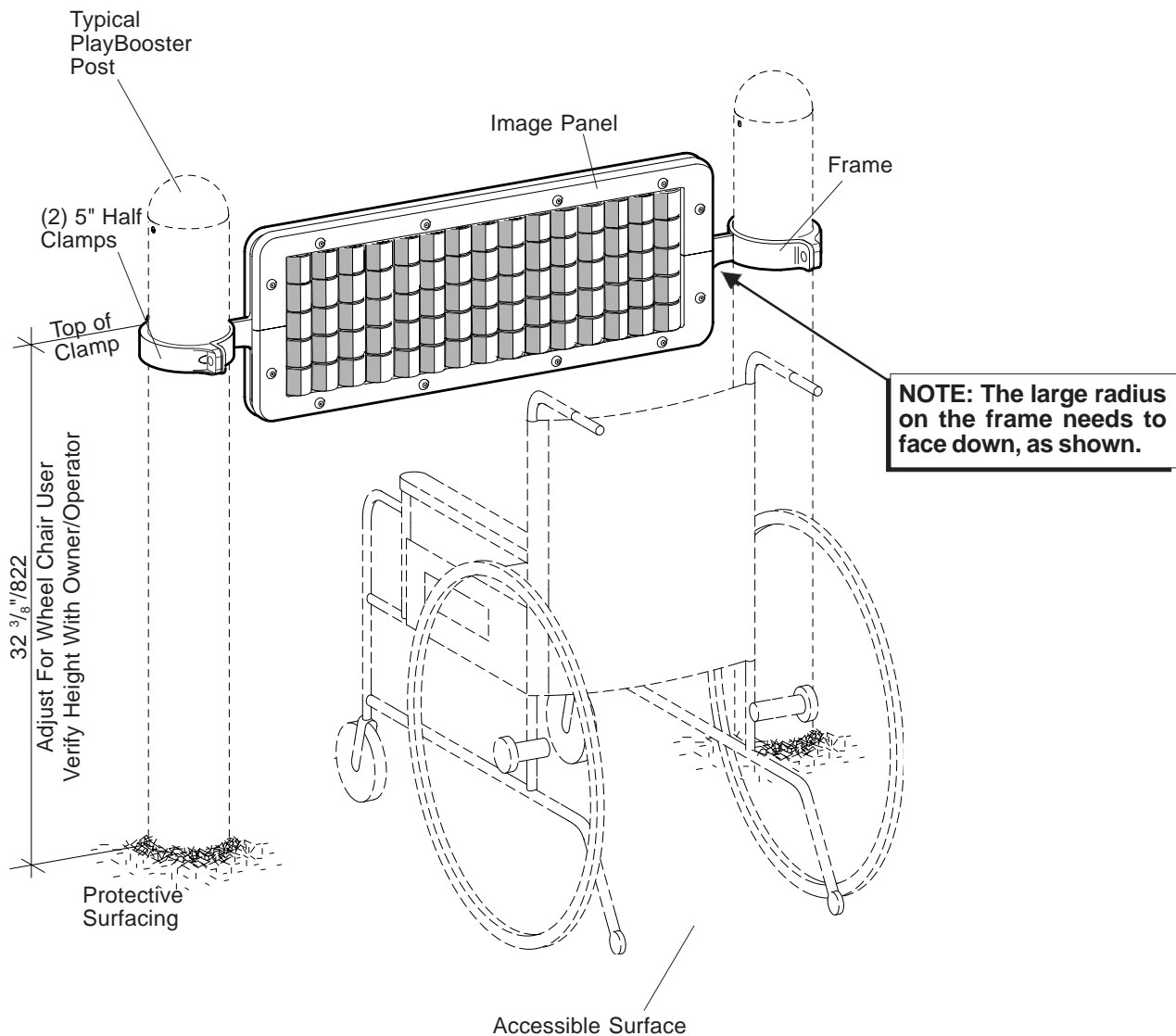


**DETAIL
DECK SUPPORT ATTACHMENT**



**DETAIL
STEP SUPPORT ATTACHMENT**





Parts List

Part#	Description	Qty.
127483-00	Frame, Specify Color	1
105327-01	5" Half Clamp, Specify Color	2
136751-00	Pivot Block Set.....	1
115460-00	1/2" x 11 7/16" Rod, Aluminum	15
100610-00	1/4" x 5/8" Drive Rivet, Specify Color	2
129065-00	Reach Image Panel Set, Specify Color	1
127460-00	Front Panel, Specify Color	2
127433-00	Back Panel, Specify Color	2
127438-00	Cover Panel, Specify Color	2
129063-00	Panel Hardware Package	1
100196-00	3/8" x 7/8" BHCS w/Pin, SST	4
100199-00	3/8" x 2 1/4" BHCS w/Pin, SST	8
100351-00	3/8" Tee nut, SST	4
100353-00	3/8" Flange Nut w/Pin, SST	12
113027-00	3/8" x 1 3/8" BHCS w/Pin, SST	4

Specifications

Image Panel: Solid color Permalene® panel measures 34 1/4" wide x 13" high, color specified.

Pivot Block: U.V. stabilized high-density polyethylene, tan on one side and brown on the other.

Frame: Weldment comprised of 1/4" steel. Finish: ProShield®, color specified.

Half Clamp: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

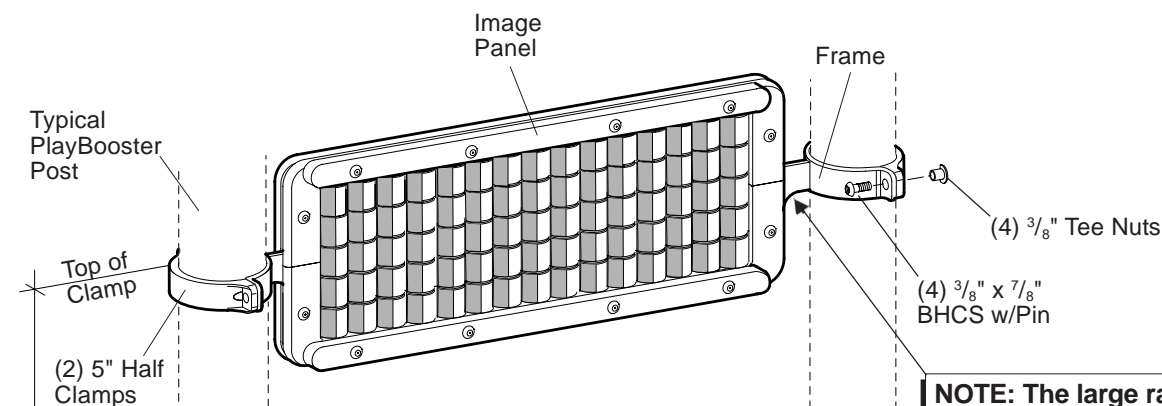
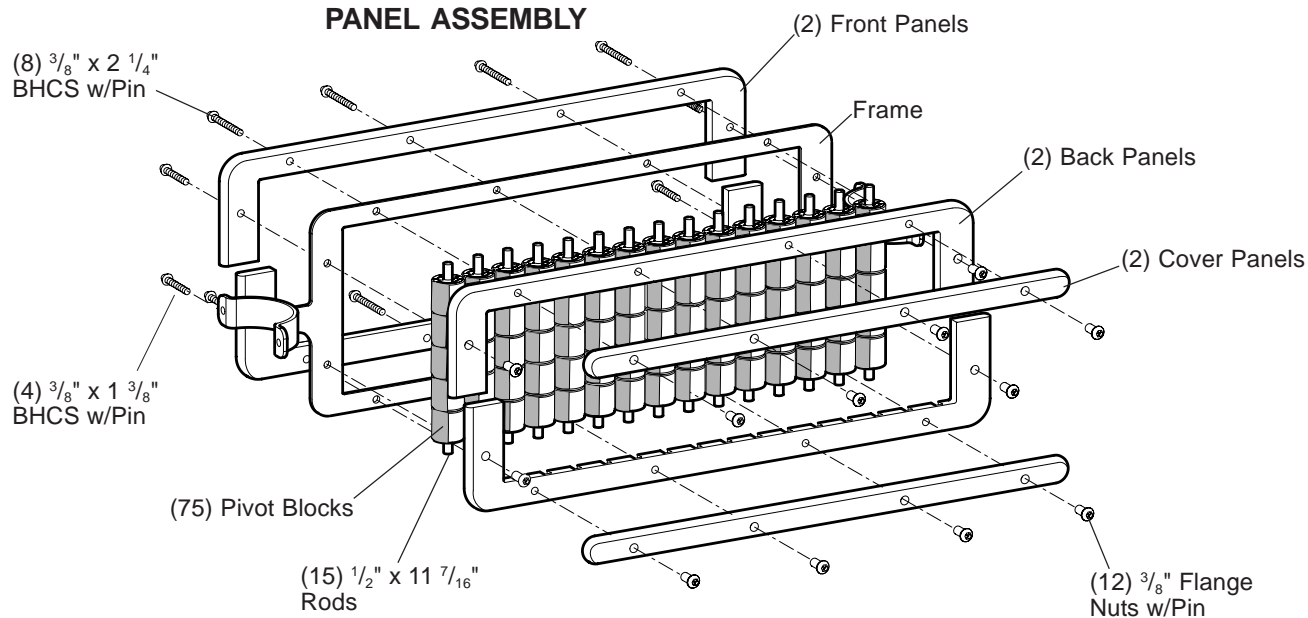
Installation Time: Approx. 1/2 man hour

Weight: 44 lbs.

Installation Instructions

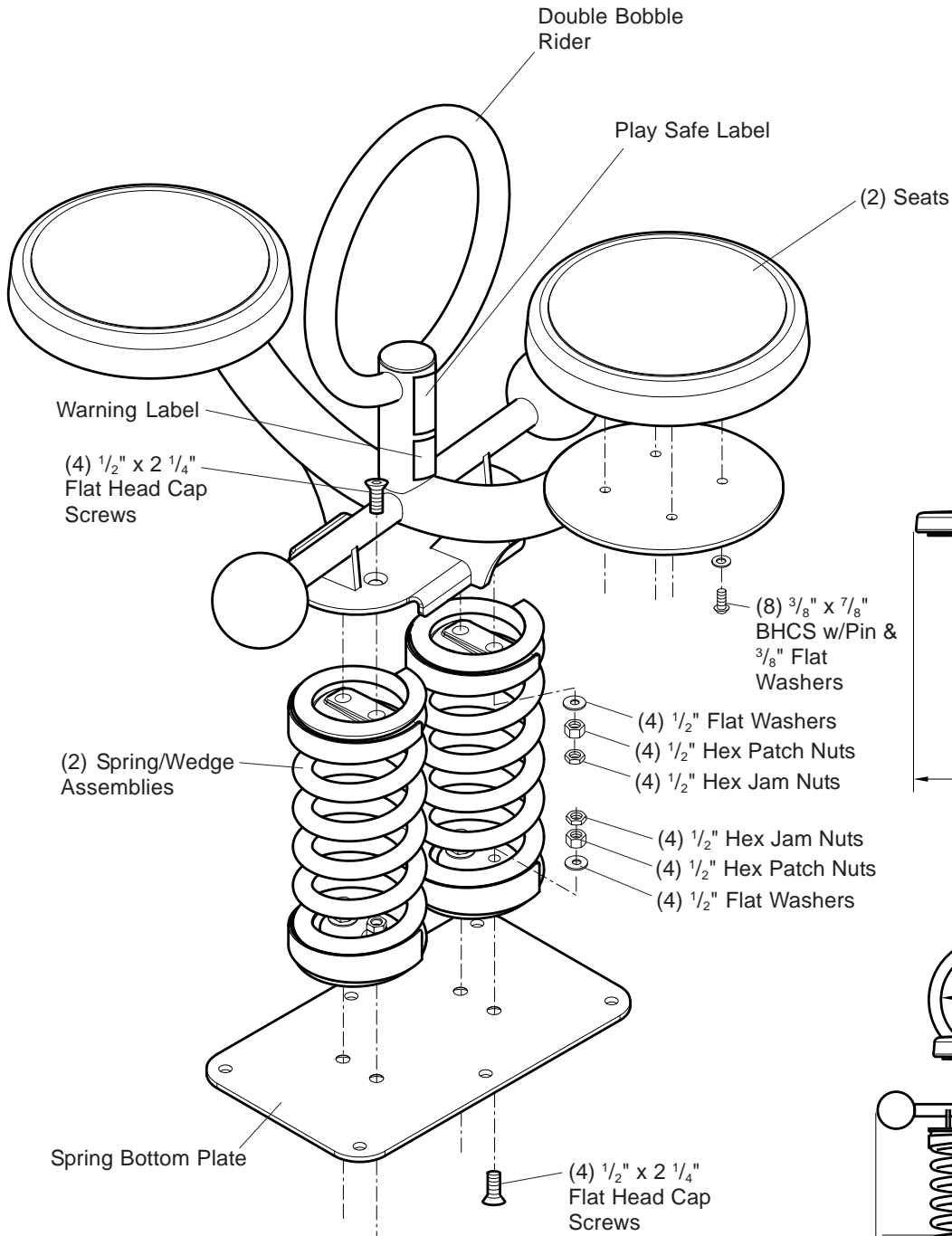
- 1) Assemble panel using frame, pivot blocks, 1/2" x 11 7/16" rods, front panel, back panel, and cover panels as shown. Refer to the Panel Assembly Detail.
- 2) Attach the assembled panel to the posts at the height shown using 5" half clamps, 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts. **NOTE: The large radius on the frame needs to face down, as shown.**
- 3) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 4) Install protective surfacing before users are allowed to play on the structure.

DETAIL
PANEL ASSEMBLY

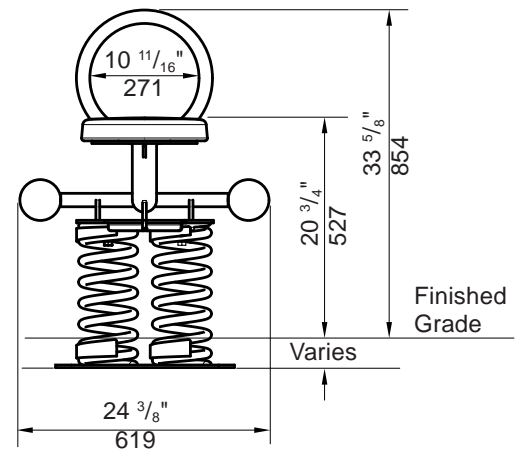
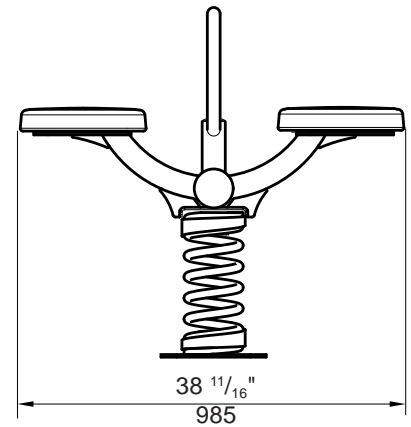


NOTE: The large radius on the frame needs to face down, as shown.

NOTE: If the Image Panel is located on a wheelchair accessible deck, a Curb (Model #128623) is required.



PLAN VIEW



Parts List

Part#	Description	Qty.
132912-00	Spring/Wedge Assembly, Black.....	2
160586-00	Seat, Black	2
185341-00	Double Bobble Rider, Specify Color	1
164058-00	Footer (DB), Black	1
164318-00	Spring Bottom Plate (SM), Black	1
183887-00	Double Bobble Rider Hardware Package	1
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	8
100362-00	$\frac{3}{8}$ " Flat Washer, SST	8
100363-00	$\frac{1}{2}$ " Flat Washer, SST	8
129692-00	$\frac{1}{2}$ " Hex Patch Nut, SST	8
129693-00	$\frac{1}{2}$ " Hex Jam Nut, SST	8
130824-00	$\frac{1}{2}$ " x $2\frac{1}{4}$ " Flat Head Cap Screw, SST	8
156846-00	Play Safe Label 2-12 Years	1
183064-00	Warning Label	1
121868-00	Spring Animal Anchor Hardware Package (SM) 1	
100262-00	$\frac{1}{2}$ " x 6" Anchor Bolt.....	6
100322-00	$\frac{1}{2}$ " Standard Hex Nut, SST	6
100363-00	$\frac{1}{2}$ " Flat Washer, SST	6

DB = Direct Bury

SM = Surface Mount

Specifications

Double Bobble Rider: Weldment comprised of 1.315" O.D. RS20 (.080"-.090" wall) galvanized steel tubing, 2.375" O.D. RS20 (.095"-.105" wall) galvanized steel tubing, $\frac{3}{8}$ " HRPO steel plate, $\frac{1}{4}$ " HRPO steel plate, and 4" diameter 10 GA. (.135") low carbon steel ball. Finish: ProShield®, color specified.

Spring: Weldment comprised of 5 $\frac{5}{8}$ " diameter $\frac{13}{16}$ " tempered alloy steel coil. Finish: ProShield, black in color.

Seat: Rotationally molded from U.V. stabilized linear low density polyethylene, black in color.

Spring Bottom Plate: Fabricated from $\frac{3}{8}$ " x 10" x 17" sheet HRPO steel. Finish: ProShield, black in color.

Footer: Weldment comprised of 3 $\frac{1}{2}$ " O.D. RS20 (.120" - .130" wall) galvanized steel tubing and $\frac{1}{4}$ " x 10" x 17" sheet HRPO steel. Finish: ProShield, black in color.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: SM - Approx. 2 man hours
DB - Approx. 2 $\frac{1}{4}$ man hours

Concrete Req.: DB - Approx. 5.25 cu. ft.

Area Req.: 15'-2 $\frac{11}{16}$ " x 13'-6" (4,64 m x 4,11 m) Minimum Use Zone

Weight: (SM) 113 lbs
(DB) 137 lbs

Seat Height: 20 $\frac{3}{4}$ " (527 mm)

Installation Instructions

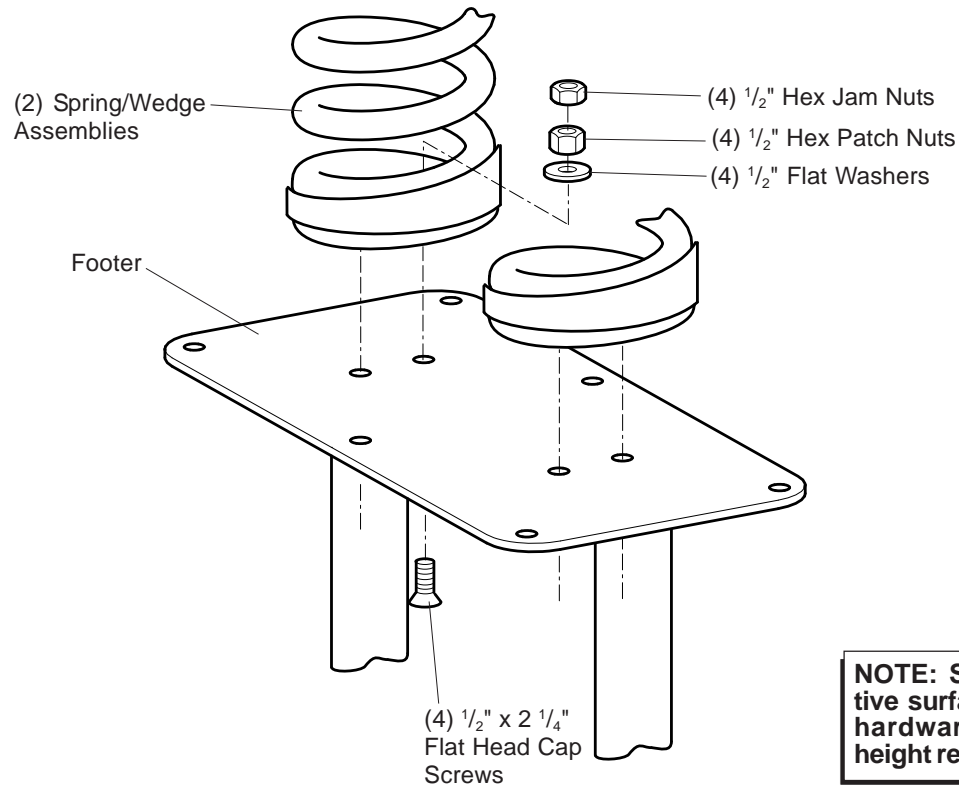
(Direct Bury)

- 1) Dig footing hole as shown.
- 2) Attach Bobble Rider to spring/wedge assemblies using $\frac{1}{2}$ " x $2\frac{1}{4}$ " flat head cap screws, $\frac{1}{2}$ " flat washers, $\frac{1}{2}$ " hex patch nuts and $\frac{1}{2}$ " hex jam nuts, as shown.
- 3) Attach spring/wedge assemblies to footer using $\frac{1}{2}$ " x $2\frac{1}{4}$ " flat head cap screws, $\frac{1}{2}$ " flat washers, $\frac{1}{2}$ " hex patch nuts and $\frac{1}{2}$ " hex jam nuts.
- 4) Attach seats to Bobble Rider using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " flat washers.
- 5) With footer plumb and Bobble Rider propped up, pour concrete footing and let cure for a minimum of 72 hours before using.
- 6) Apply labels as shown.
- 7) Install protective surfacing before users are allowed to play on the component.

(Surface Mounting On A Concrete Slab)

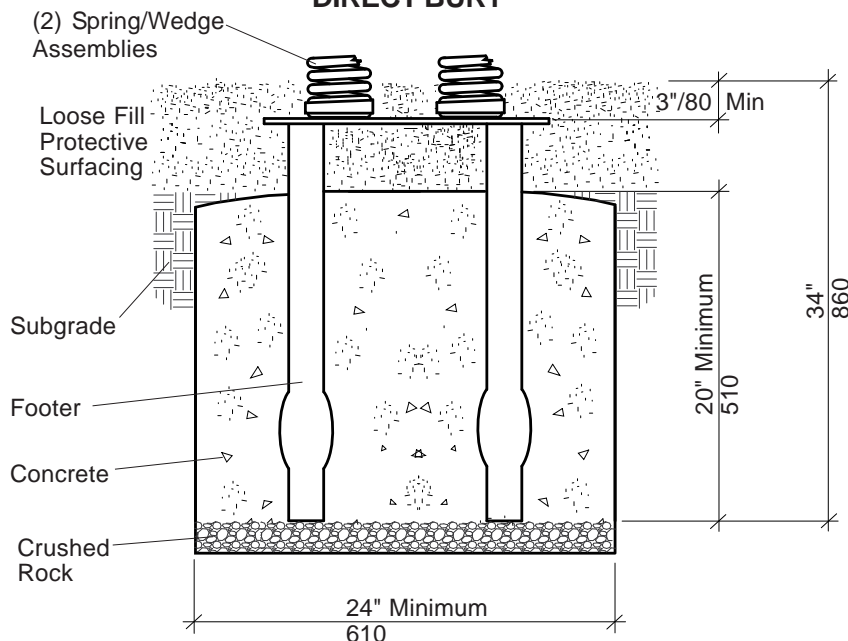
- 1) Using the spring bottom plate as a pattern, make a plywood template for anchor bolt placement. Attach $\frac{1}{2}$ " x 6" anchor bolts with $\frac{1}{2}$ " standard hex nuts and $\frac{1}{2}$ " flat washers to holes in template.
- 2) Pour concrete slab and lay template on surface in level position. Push $\frac{1}{2}$ " x 6" anchor bolts into concrete and allow $\frac{3}{4}$ " to $\frac{7}{8}$ " of thread to protrude from concrete. Allow 72 hours before template removal.
- 3) Attach spring/wedge assemblies to spring bottom plate using $\frac{1}{2}$ " x $2\frac{1}{4}$ " flat head cap screws, $\frac{1}{2}$ " flat washers, $\frac{1}{2}$ " hex patch nuts and $\frac{1}{2}$ " hex jam nuts.
- 4) Attach spring bottom plate to anchor bolts in concrete with $\frac{1}{2}$ " standard hex nuts and $\frac{1}{2}$ " flat washers.
- 5) Attach Bobble Rider to spring/wedge assemblies using $\frac{1}{2}$ " x $2\frac{1}{4}$ " flat head cap screws, $\frac{1}{2}$ " flat washers, $\frac{1}{2}$ " hex patch nuts and $\frac{1}{2}$ " hex jam nuts, as shown.
- 6) Attach seats to Bobble Rider using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " flat washers.
- 7) Apply labels as shown.
- 8) Sufficient protective surfacing for a 2' fall height should cover bottom plate and anchor bolts. (See ASTM F1487, Section 9.)

**DETAIL
DIRECT BURY
BASE LEG ATTACHMENT**

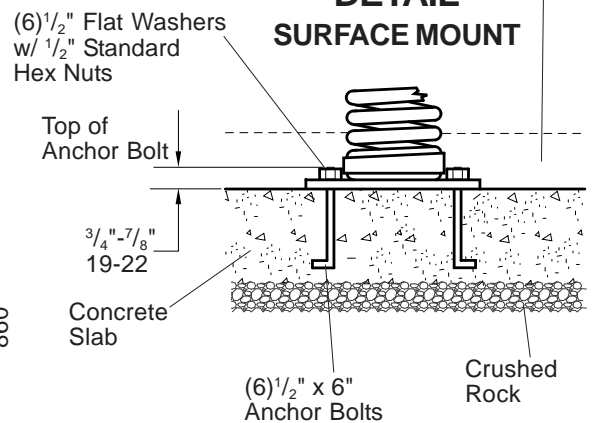


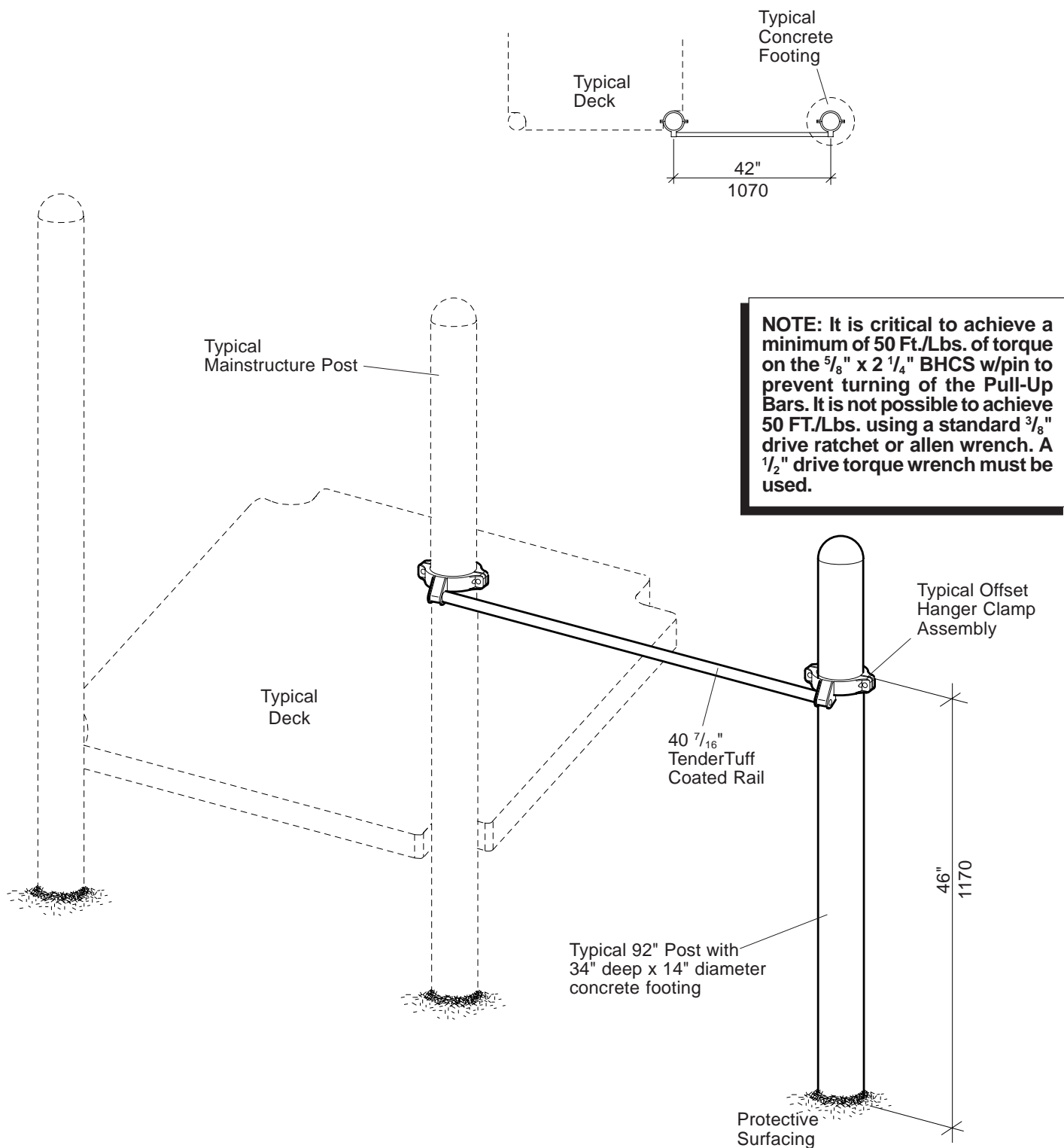
NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

**DETAIL
DIRECT BURY**



**DETAIL
SURFACE MOUNT**





Parts List

Part#	Description	Qty.
107681-00	92" Aluminum Post, Specify Color	1
108569-00	40 7/16" TenderTuff Rail, Specify Color	1
105327-01	5" Half Clamp, Specify Color	2
113729-00	Offset Hanger Clamp, Specify Color	2
100610-00	1/4" x 5/8" Drive Rivet, SST	2
100351-00	3/8" Tee Nut, SST	4
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	4
100203-00	5/8" x 2 1/4" BHCS w/Pin, SST	2

Specifications

Rail: Weldment comprised of 1.125" O.D. x 11 GA (.120") steel tubing with 203 or 303 stainless steel 5/8" threaded inserts. Finish: TenderTuff™, color specified.

Post: See PlayBooster® (PB) General Specifications.

Offset Hanger

Clamp Assembly: Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1 1/2 man hours

Concrete Req.: Approx. 1.6 cu. ft.

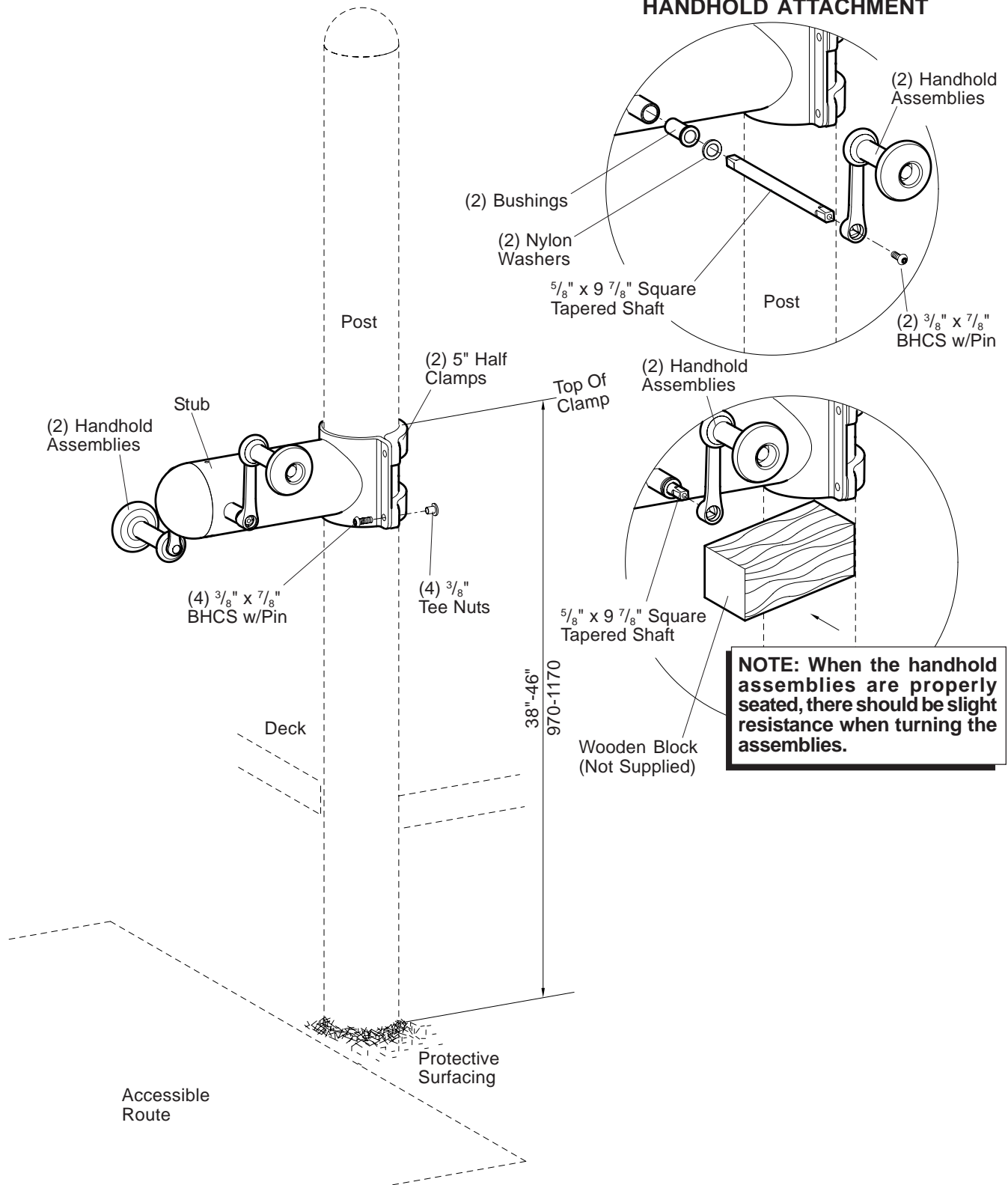
Area Req.: 6' (1.83 m) minimum use zone

Weight: 35 lbs.

Installation Instructions

- 1) Dig footing hole spaced as shown. Refer to the Typical Concrete Footing Detail sheet.
- 2) Set 92" post in footing hole and attach 40 7/16" rail assembly to post at height shown using offset hanger clamp. Refer to the Typical Offset Hanger Clamp Assembly Spec sheet. **NOTE:** *It is critical to achieve a minimum of 50 Ft./Lbs. of torque on the 5/8" x 2 1/4" BHCS w/pin to prevent turning of the Pull-Up Bars. It is not possible to achieve 50 FT./Lbs. using a standard 3/8" drive ratchet or allen wrench. A 1/2" drive torque wrench must be used.*
- 3) Temporarily brace post in plumb position and level rail. Pour concrete footing.
- 4) Install drive rivets in all clamps. Refer to the Typical Offset Hanger Clamp Assembly sheet.
- 5) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
HANDHOLD ATTACHMENT**



PlayBooster® 153165 Stationary Cycler, Accessible

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #16057500

Parts List

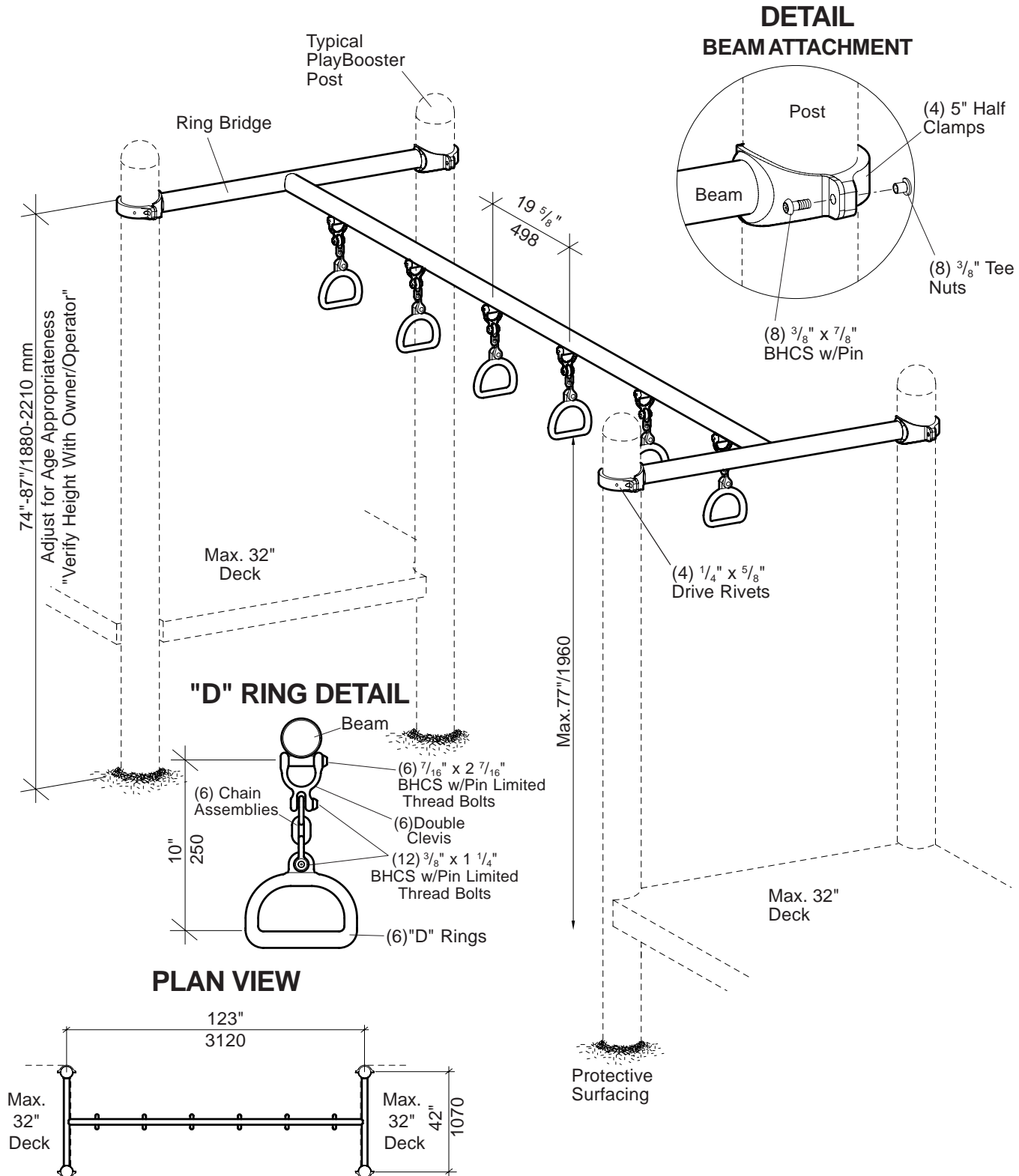
Part#	Description	Qty.
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	2
105327-01	5" Half Clamp, Specify Color	2
160567-00	5/8" x 9 7/8" Tapered Shaft	1
153101-00	Stub, Specify Color	1
153972-00	Handhold Assembly	2
152231-00	Handhold, Black	2
153577-00	Handle Crank Weldment, Specify Color	2
153714-00	Retaining Ring	2
160570-00	Stationary Cyclor Acc. Hardware Package	1
100196-00	3/8" x 7/8" BHCS w/Pin, SST	6
100351-00	3/8" T-Nut, SST	4
151036-00	Bushing, Oilite	2
156037-00	Nylon Washer	2

Specifications

Handhold:	Handhold fabricated from high density polyethylene, black in color.
Handhold Crank:	Weldment comprised of 3/4" O.D. stainless steel shaft and forged carbon steel.
Stub:	Weldment comprised of 5.000" O.D. x 11 Ga. (.120") steel tube, 1/4" x 6" HRPO flat steel and 1.063" O.D. 1018 steel shaft housing. Finish: ProShield®, color specified.
Shaft:	.625" O.D. stainless steel.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 1/4 man hour
Weight:	22 lbs.

Installation Instructions

- 1) Attach stub to post at height shown using 5" half clamps, 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts, as shown.
- 2) Position handhold assemblies onto square tapered shaft with bushings and nylon washers as shown on illustration. Using a rubber mallet and block of wood, not supplied, (to protect the painted surface of the assemblies) to properly seat the handhold assemblies onto tapered shaft. **NOTE:** *When the handhold assemblies are properly seated, there should be slight resistance when turning the assemblies.* Once the handhold assemblies are seated properly, assemble the 3/8" x 7/8" BHCS w/pin and tighten to approximately 25 ft/lbs. of torque.
- 3) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.



Parts List

Part#	Description	Qty
145930-00	Beam, Specify Color	1
105327-01	5" Half Clamp, Specify Color	4
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	4
130923-00	"D" Ring w/Bolt Link Hardware Package	6
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread Bolt, SST	6
128045-00	Chain Assembly	6
108440-00	"D" Ring, Brown TenderTuff	6
149231-00	2" Ring Bridge Hardware Package	1
100196-00	3/8" x 7/8" BHCS w/Pin, SST	8
100351-00	3/8" Tee Nut, SST	8
127068-00	7/16" x 2 7/16" BHCS w/Pin Ltd. Thread Bolt, SST..	6
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread Bolt, SST	6
138917-00	Double Clevis, SST	6

Specifications

Beam: Weldment comprised of 2.375" O.D. RS-40 (.130"-.140") galvanized steel tubing, and 1/4" HRPO flat steel. Housing for double clevis are 1 1/4" O.D. x .312" wall steel tubing. SAE 841 dry bronze bushings are pressed into housings at factory. Finish: ProShield®, color specified.

"D" Rings: Cast from A356 aluminum alloy with a cast in place 841 bronze alloy bushing. Finish: TenderTuff™, brown in color.

Chain Assembly: 5/16" Low carbon steel straight link galvanized chain, with bolt link made from drop forged carbon steel, heat treated and zinc plated.

Double Clevis: Stainless Steel.

Clamp: Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1 1/2 man hours

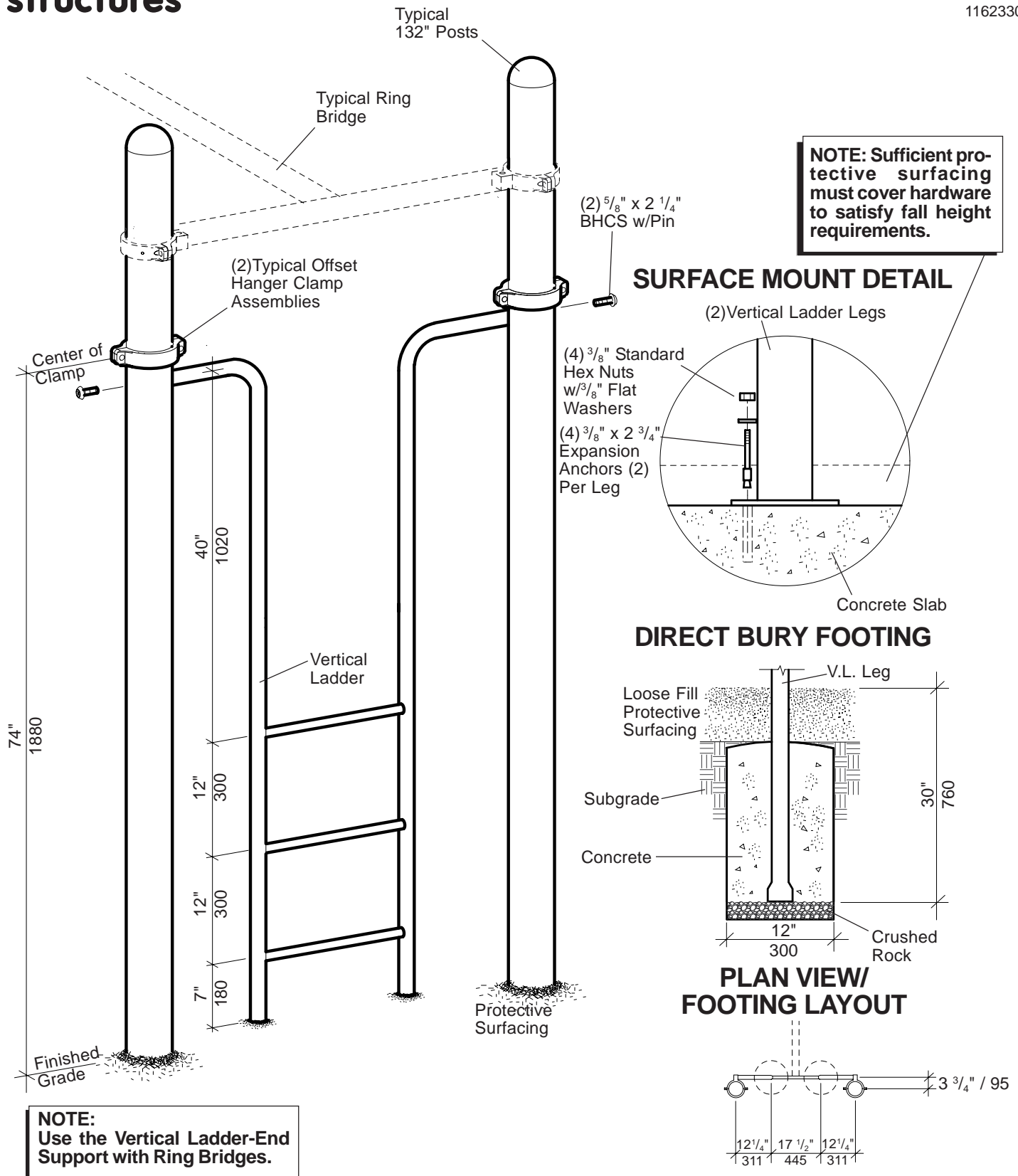
Area Req: 6' (1,83 m) minimum use zone

Weight: 77 lbs.

Max. Fall Height: 75"-88" (1,91 m - 2,24 m)

Installation Instructions

- 1) Attach double clevis to housings on beam using 7/16" x 2 7/16" BHCS w/pin limited thread bolts. Attach chain assembly to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread bolts. Attach "D" ring with bolt link to chain assembly using 3/8" x 1 1/4" BHCS w/pin limited thread bolt.
- 2) Mark posts for the appropriate height of the beam you are installing.
- 3) Lift beam into position and attach to posts using 5" half clamps with 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts. Refer to the Beam Attachment Detail.
- 4) Be sure beam is level, if not adjust clamps to do so.
- 5) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.



PlayBooster® 116208 Vertical Ladder End Support, (Ring Bridge)

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

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Document #12169000

PlayBooster®116208 Vertical Ladder End Support, (Ring Bridge)

Parts List

Part#	Description	Qty.
107474-00	100" Steel Post Assembly, Specify Color, SM	2
107630-00	100" Alum. Post Assembly, Specify Color, SM	2
107527-00	132" Steel Post Assembly, Specify Color, DB	2
107703-00	132" Alum. Post Assembly, Specify Color, DB	2
108606-00	Vertical Ladder, Specify Color, SM	1
108598-00	Vertical Ladder, Specify Color, DB	1
105327-01	5" Half Clamp, Specify Color	2
113729-00	Offset Hanger Clamp, Specify Color	2
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100203-00	$\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/Pin, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2
121348-00	4 Hole (SM) Hardware Package	2
100266-00	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	8
100322-00	$\frac{1}{2}$ " Standard Hex Nut, SST	8
100363-00	$\frac{1}{2}$ " Flat Washer, SST	8
111394-00	4 Hole (SM) Hardware Package	1
100263-00	$\frac{3}{8}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	4
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	4
100362-00	$\frac{3}{8}$ " Flat Washer, SST	4

Specifications

Vertical Ladder: Weldment comprised of formed 1.125" O.D. x 11 GA (.120") black steel tubing with 203 or 303 stainless steel $\frac{5}{8}$ " threaded inserts and 1.029" O.D. RS-20 (.070" - .080") galvanized steel tubing. Finish: TenderTuff, color specified.

Post: See PlayBooster (PB) General Specifications.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: DB - Approx. 2 man hours
SM - Approx. 1 man hour

Concrete Req.: Approx. 6.8 cu. ft.

Area Req.: 6' (1.83 m) minimum use zone

Weight: w/Aluminum Posts: SM - 94 lbs.

DB - 102 lbs.

w/Steel Posts: SM - 150 lbs.

DB - 176 lbs.

Installation Instructions

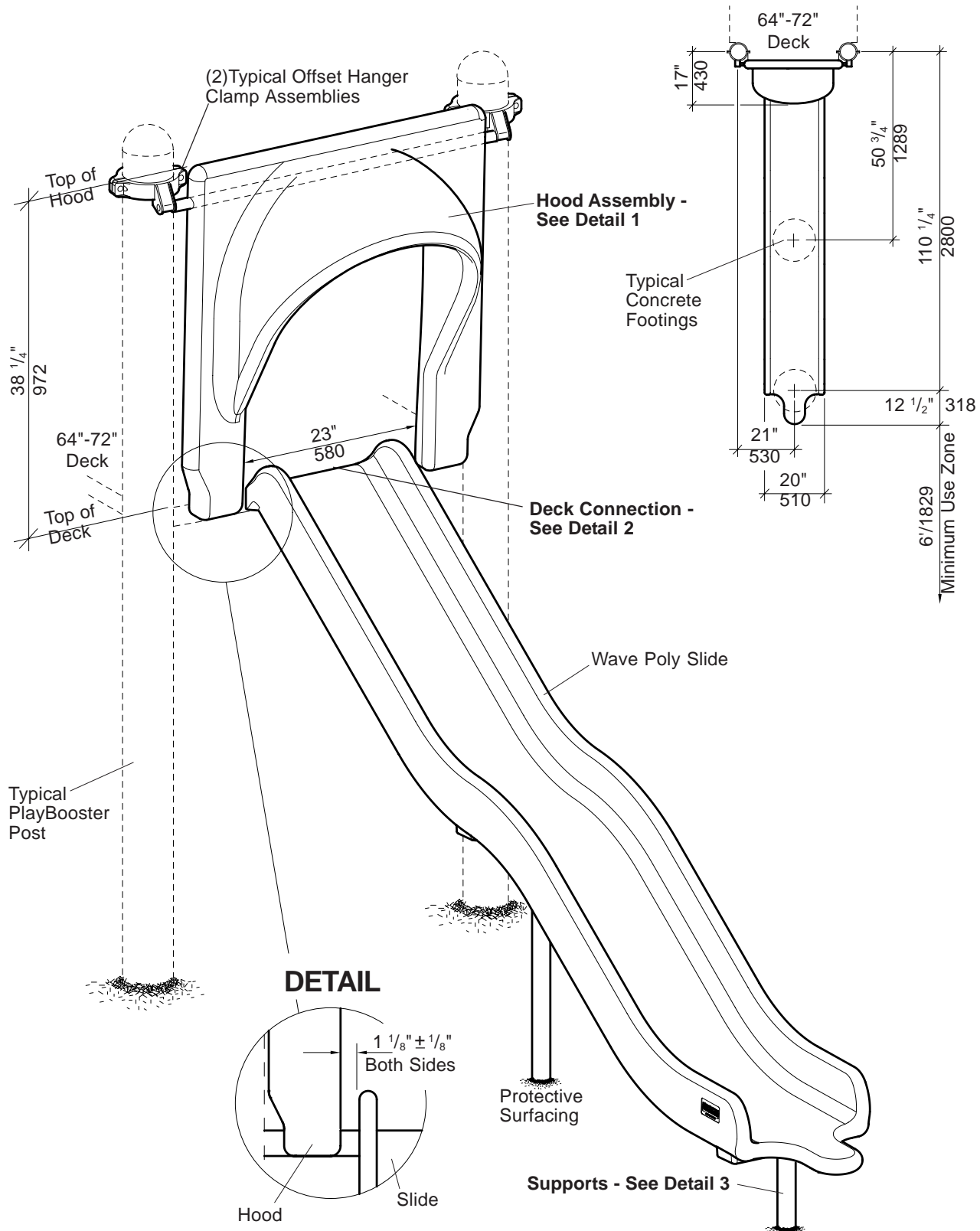
Direct Bury

- 1) Dig footings to proper depth and spacing as shown.
- 2) Attach offset hanger clamp halves to ends of vertical ladder using $\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/pin.
- 3) Set posts in footing holes and attach component per the component installation sheet you are installing.
- 4) Position ladder in footing holes and attach to posts at height shown using 5" half clamps and $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 5) Pour concrete footings.
- 6) Install protective surfacing before users are allowed to play on the structure.

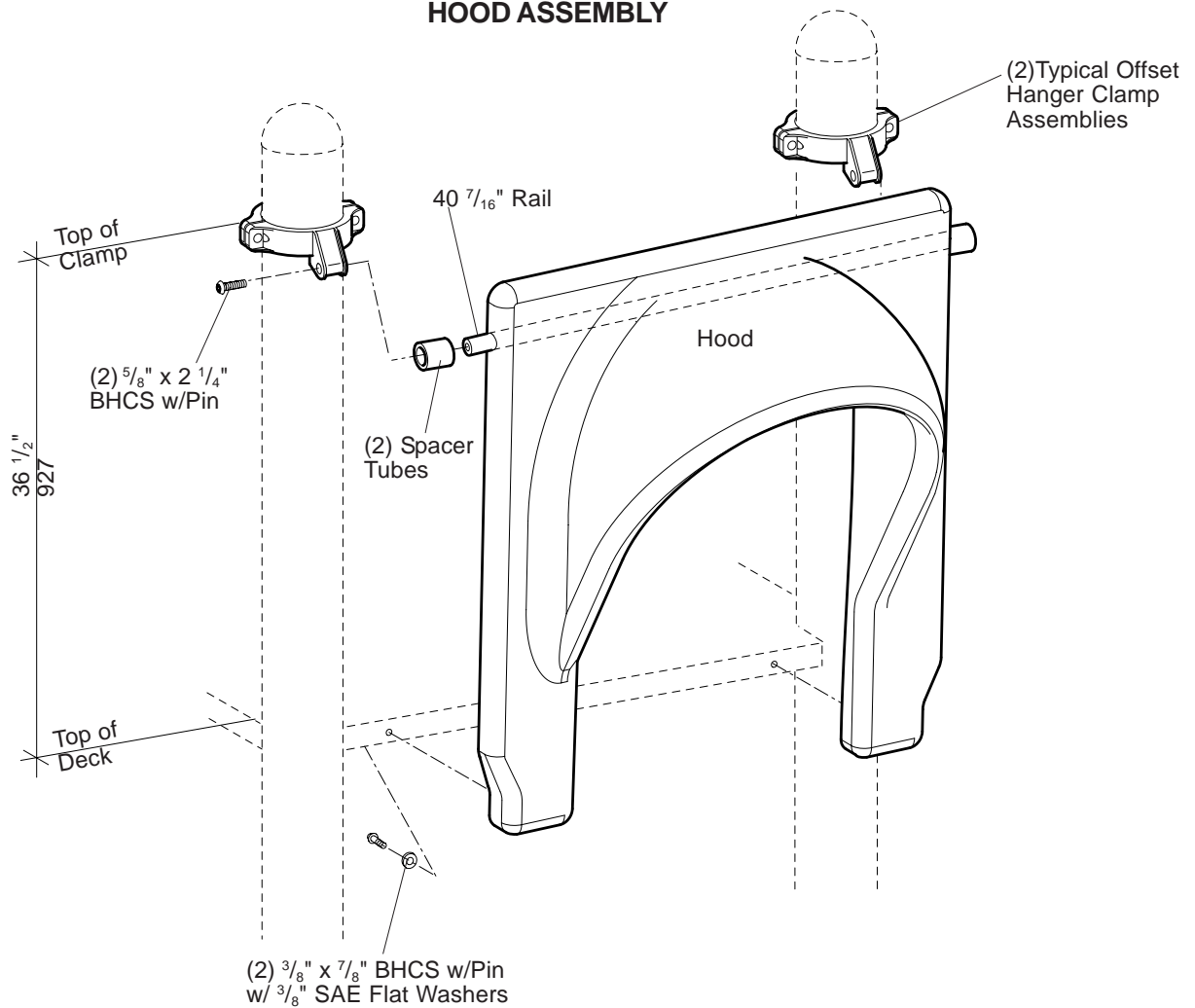
Surface Mount

- 1) Attach offset hanger clamp halves to ends of vertical ladder using $\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/pin.
- 2) Set posts in position and attach component per the component installation sheet you are installing.
- 3) Position ladder with clamps tight against posts and ladder resting on concrete slab. With ladder rails in plumb position, mark anchor bolt locations on concrete slab through holes in bottom mounting plates. Remove ladder and drill $\frac{3}{8}$ " x 3" deep holes into concrete slab on marks, using $\frac{3}{8}$ " masonry bit and hammer drill.
- 4) Reposition ladder and attach offset hanger clamps to posts with 5" half clamps and $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet. Tap expansion anchors into drilled holes in concrete through plates on bottom of vertical ladder. Secure with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " standard hex nuts. Secure posts to concrete in same way, except use $\frac{1}{2}$ " masonry bit with $\frac{1}{2}$ " anchors and fasteners.
- 5) Install protective surfacing before users are allowed to play on the structure.

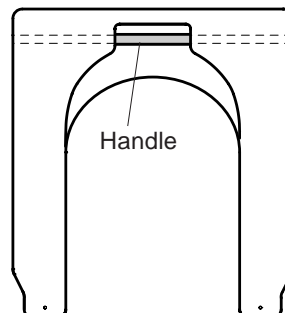
PLAN VIEW/ FOOTING LAYOUT



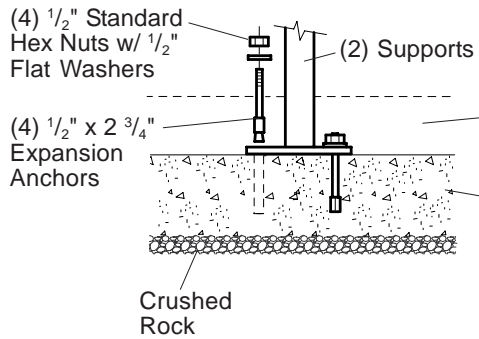
DETAIL 1 HOOD ASSEMBLY



HOOD - HANDLE DETAIL

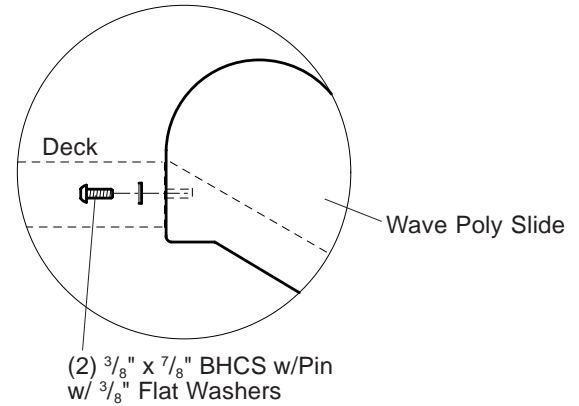


**DETAIL
SURFACE MOUNT**

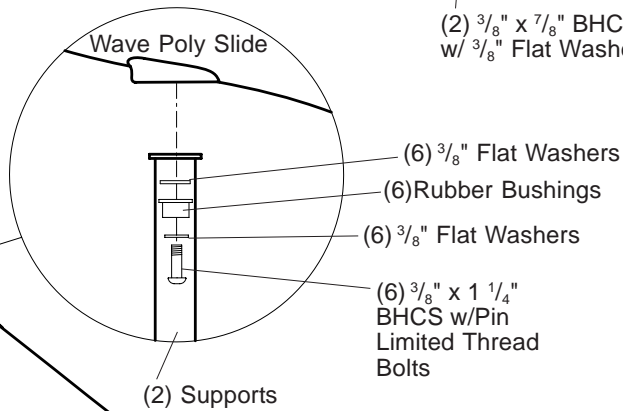


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

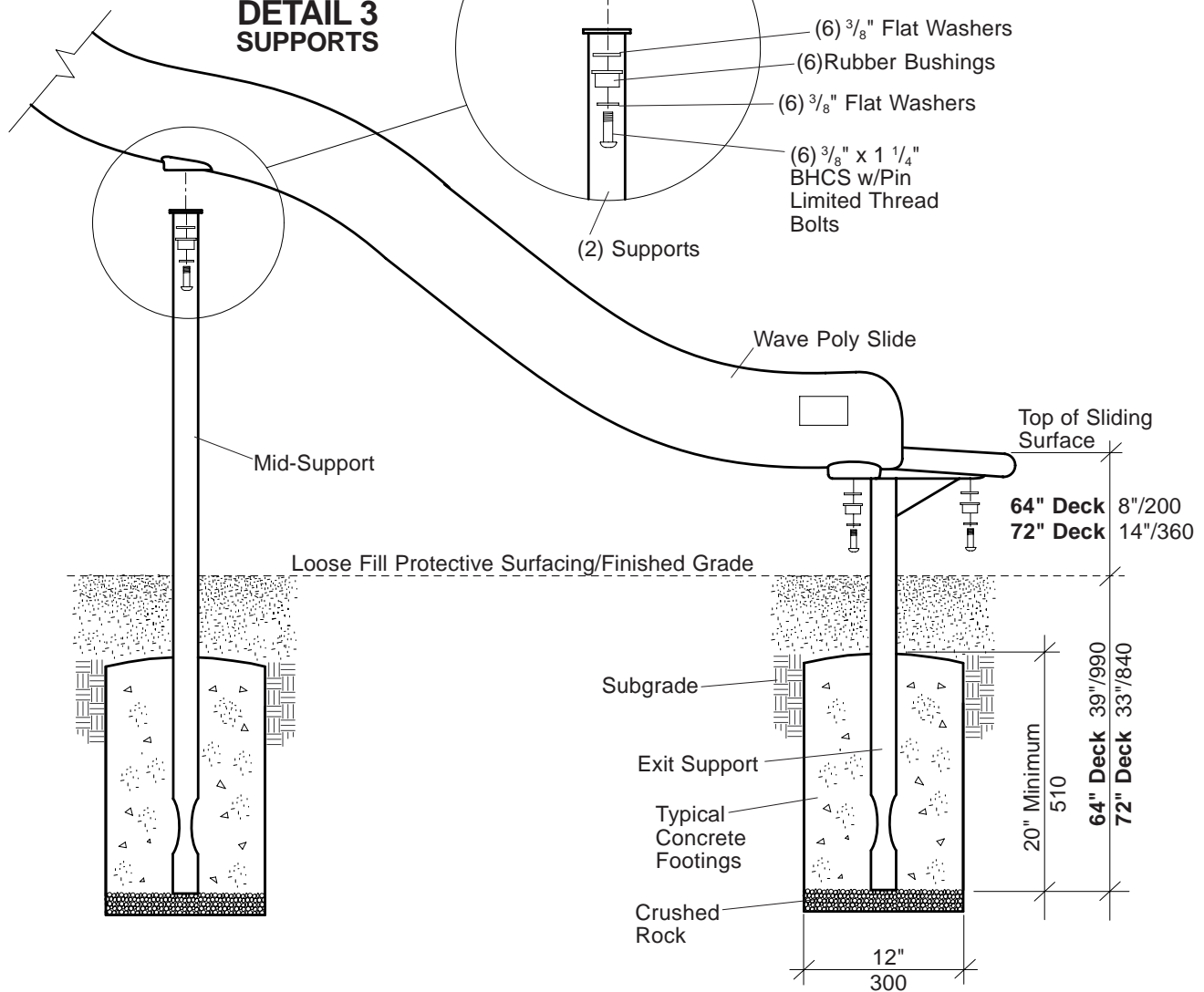
**DETAIL 2
DECK CONNECTION**



**DETAIL
SUPPORT ATTACHMENT**



**DETAIL 3
SUPPORTS**



Parts List

Part#	Description	Qty.
130612-00	Wave Poly Slide, Specify Color	1
134180-00	Slide Hood, Specify Color	1
103201-00	Exit Support, (DB), Specify Color	1
130691-00	Mid-Support, (DB), Specify Color	1
131653-00	Exit Support, 64" Deck (SM), Specify Color	1
103198-00	Exit Support, 72" Deck (SM), Specify Color	1
131655-00	Mid-Support, 64" Deck (SM), Specify Color	1
131651-00	Mid-Support, 72" Deck (SM), Specify Color	1
100583-00	40 7/16" Rail, Specify Color	1
105327-01	5" Half Clamp, Specify Color	2
113729-00	Offset Hanger Clamp, Specify Color	2
132443-00	Spacer Tube, Specify Color	2
131672-00	Slide Hardware Package	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread Bolt, SST	6
111442-00	Rubber Bushing	6
100196-00	3/8" x 7/8" BHCS w/Pin, SST	2
100362-00	3/8" Flat Washer, SST	14
106578-00	Hood Hardware Package	1
100196-00	3/8" x 7/8" BHCS w/Pin, SST	2
100362-00	3/8" Flat Washer, SST	2
100203-00	5/8" x 2 1/4" BHCS w/Pin, SST	2
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	4
100351-00	3/8" Tee Nut, SST	4
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	2
121348-00	4-Hole (SM) Hardware Package	1
100266-00	1/2" x 2 3/4" Expansion Anchor	4
100322-00	1/2" Standard Hex Nut, SST	4
100363-00	1/2" Flat Washer, SST	4

DB = Direct Bury
SM = Surface Mount

Specifications

Hood/Slide:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Mid-Support:	Weldment comprised of 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and 1/4" x 3" mounting plate. Finish: ProShield®, color specified.
Exit Support:	Weldment comprised of 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and 1/4" mounting plate. Finish: ProShield, color specified.
Spacer Tube:	Fabricated from 1.3125 O.D. x 16 Ga. (.065) steel tubing. Finish: ProShield, color specified.
Rail:	1 1/8" O.D. 6005-T5 aluminum extrusion with 5/16" wall. Finish: ProShield, color specified.
Offset Hanger Clamp Assembly:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

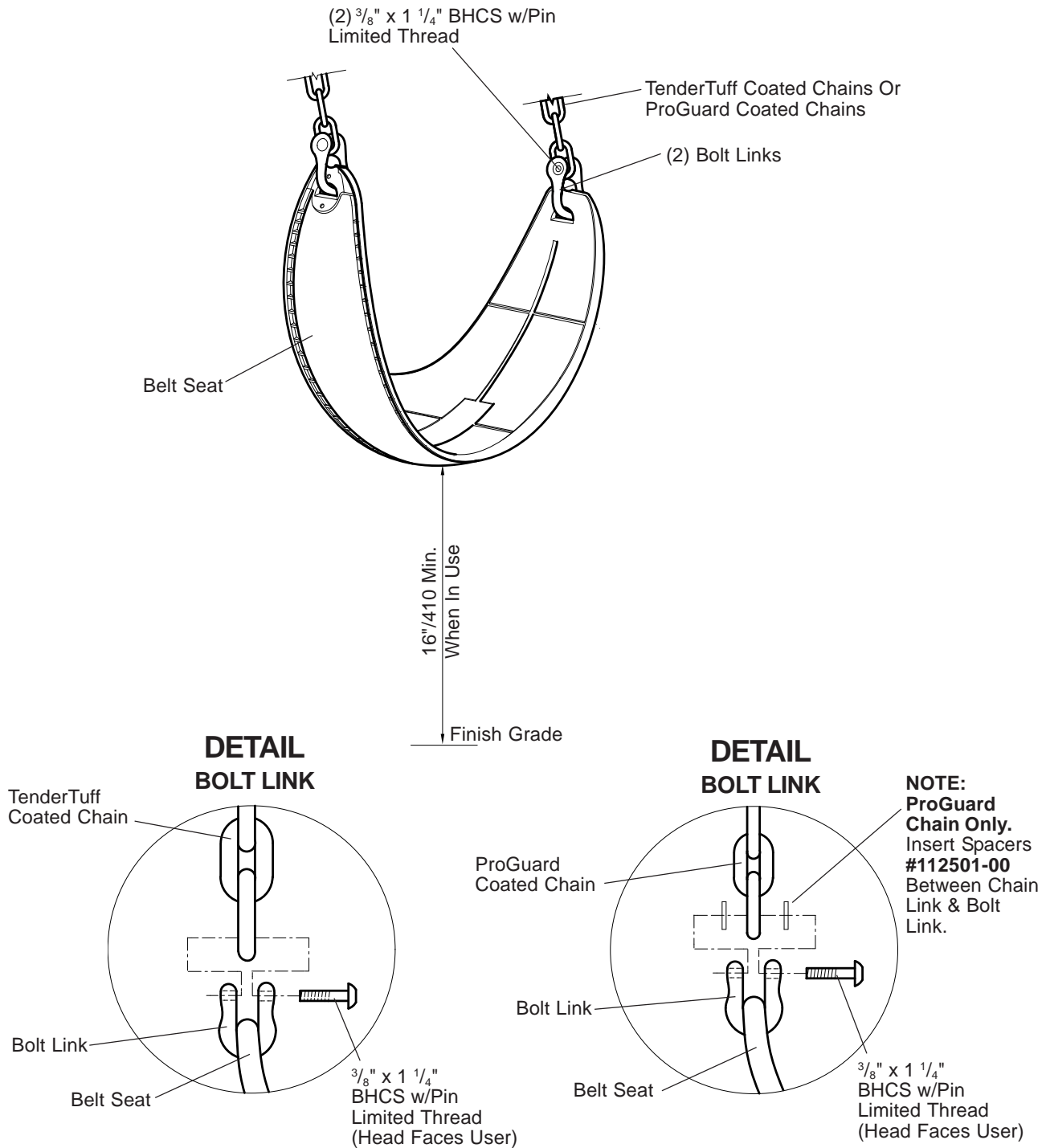
Installation Time:	Approx. 3 man hours
Concrete Req.:	Approx. 2.6 cu. ft.
Area Req.:	6' (1.83 m) minimum use zone at exit
Weight:	121 lbs.
Fall Height:	64" Deck (1.63 m) 72" Deck (1.83 m)

Installation Instructions

- (Direct Bury)** Dig footings spaced as shown.
- Insert 40 7/16" rail through hood, place spacer tubes over each end of the 40 7/16" rail, attach to offset hanger clamps as shown using 3/8" x 2 1/4" BHCS w/Pin. Position hood against face of deck and line up holes in hood and deck. Attach hood to deck using 3/8" x 7/8" BHCS w/Pin with 3/8" flat washers. See Detail 1.
- Attach offset hanger clamps to posts with 5" half clamps using 3/8" x 1 1/8" BHCS w/Pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- Attach supports to slide using 3/8" x 1 1/4" BHCS w/Pin limited thread bolts, 3/8" flat washers and rubber bushings. See Detail 3. **NOTE:** *Attach bolts in the center of the slots to allow for expansion and contraction. Snug bolts down only. Do not overtighten!*
- Attach slide to the face of the deck using 3/8" x 7/8" BHCS w/Pin and 3/8" flat washers. See Detail 2.
- (Direct Bury)** With supports plumb pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) Mark anchor bolt locations on concrete slab through holes in anchor plate and remove slide. Drill 1/2" x 3" deep holes on marks into concrete using a hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Reposition slide and reattach to the face of the deck following step 6. Fasten anchor plates to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.

- Install protective surfacing before users are allowed to play on the structure.



Parts List

Part #	Description	Qty.
8 Ft. High Beam		
128842-00	Belt Swing Seat, Black	1
152050-00	67 7/8" Chain, TenderTuff, Specify Color	2
174404-00	67 7/8" Chain, ProGuard	2
132672-00	Bolt Link w/Bolt & Spacers	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915-00	Bolt Link, SST	2
112501-00	Chain Spacer	4
132635-00	Bolt Link w/Bolt Hardware Package	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915-00	Bolt Link, SST	2
10 Ft. High Beam		
128842-00	Belt Swing Seat, Black	1
152052-00	90 11/16" Chain, TenderTuff, Specify Color	2
174884-00	90 11/16" Chain, ProGuard	2
132672-00	Bolt Link w/Bolt & Spacers	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915-00	Bolt Link, SST	2
112501-00	Chain Spacer	4
132635-00	Bolt Link w/Bolt Hardware Package	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915-00	Bolt Link, SST	2

Specifications

Chain Spacer:	Made from white nylon measuring .080" x .785" O.D.
Chain/ProGuard:	Steel 3/16" straight link chain, 800 lb. working load limit. Finish: ProGuard.
Chain/Coated:	Steel 3/16" straight link chain, 800 lb. working load limit. Finish: TenderTuff®, color specified.
Belt Seats:	Molded from U.V. stabilized black EPDM rubber encapsulating a weldment comprised of a 22 GA (.029") spring stainless steel sheet, and (4) .105" thick stainless steel washers. The belt seat elliptical shape measures 7" wide x 26" long x .700" thick.
Bolt Link:	Stainless Steel.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	1/4 man hour per seat
Weight:	8 lbs. (8 Ft. Beam w/ProGuard Chains) 9 lbs. (8 Ft. Beam w/TenderTuff Chains) 10 lbs. (10 Ft. Beam w/ProGuard Chains) 11 lbs. (10 Ft. Beam w/TenderTuff Chains)

Installation

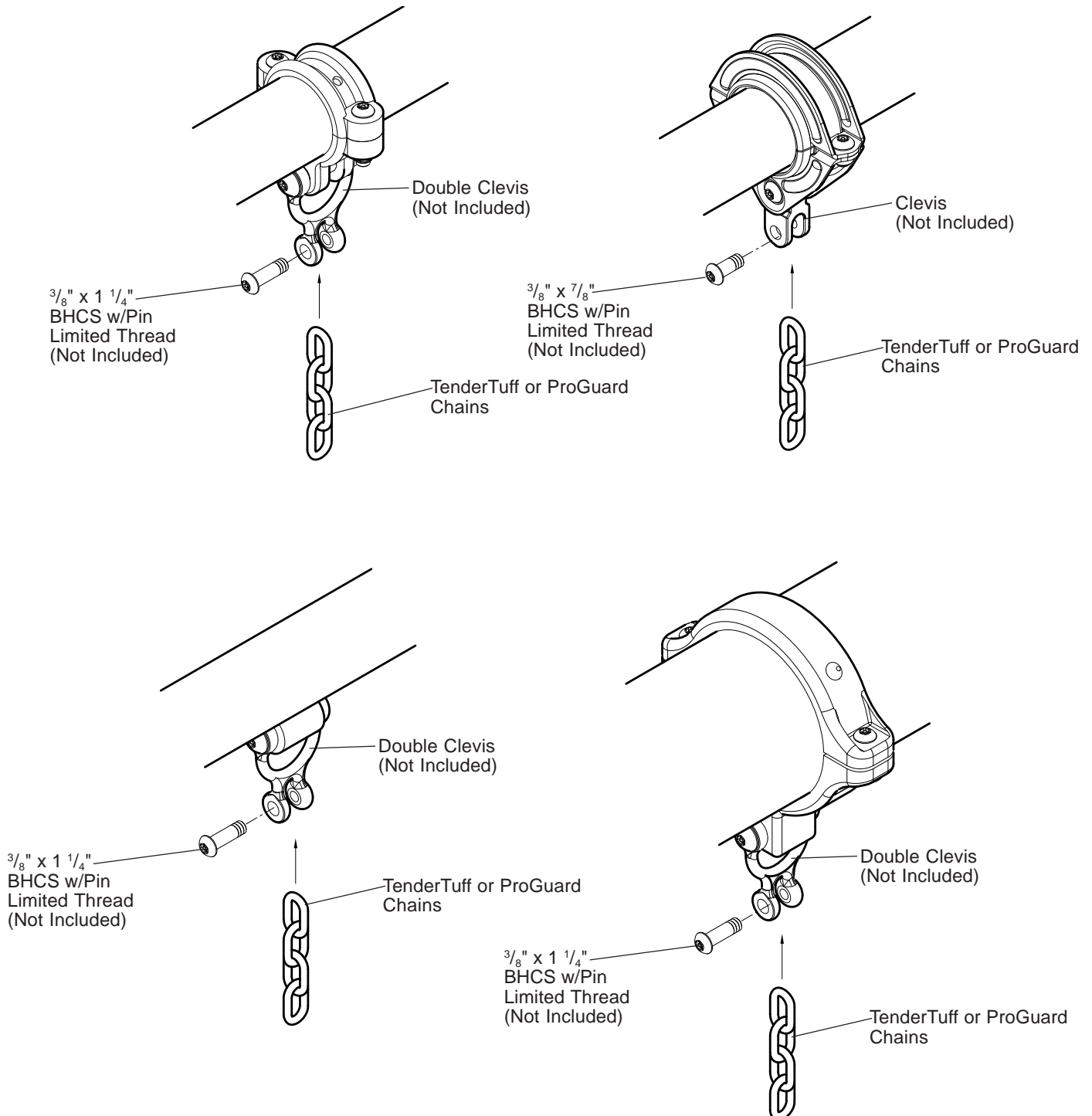
Swing Hangers With Double Clevis

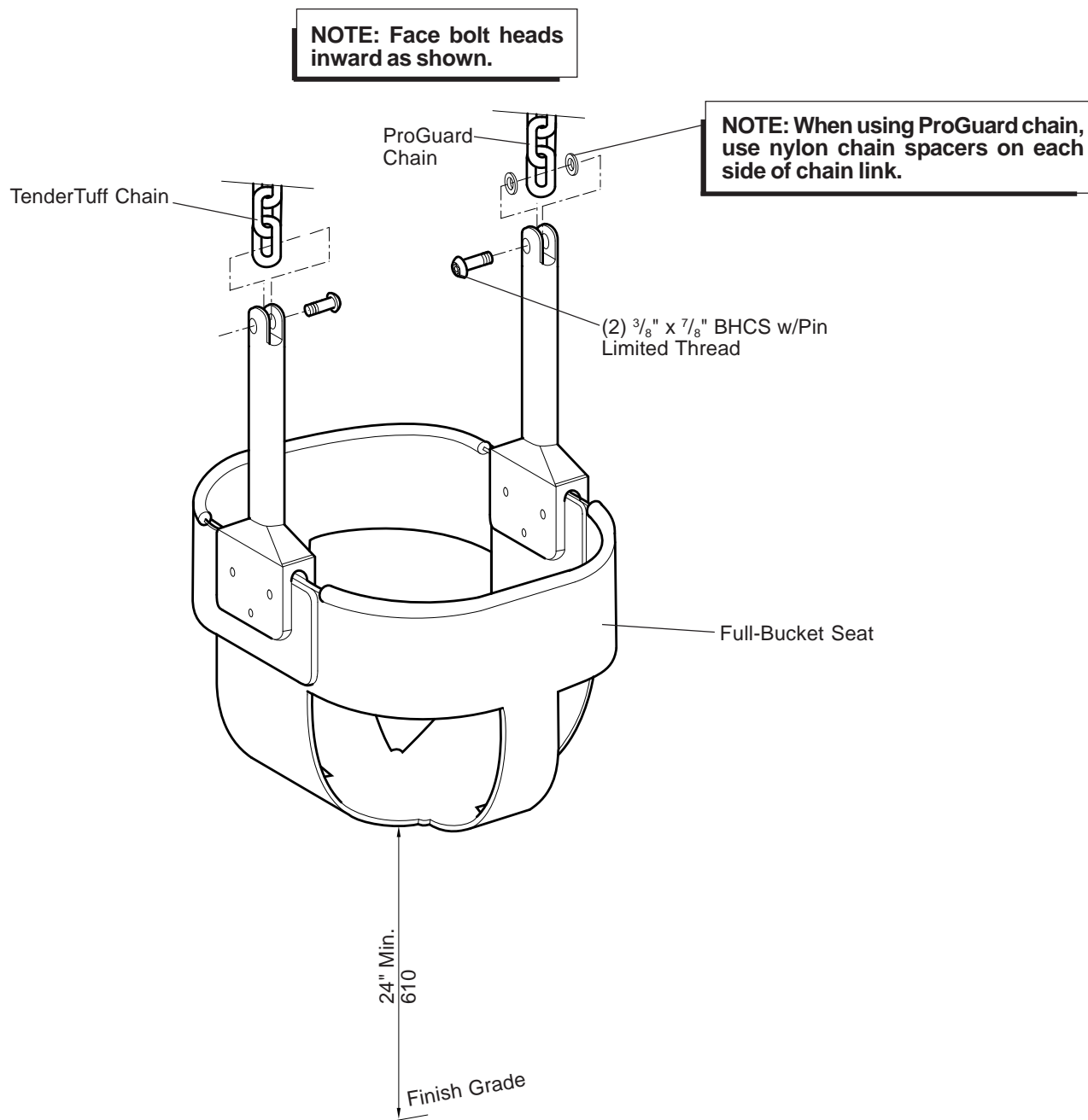
- 1) Attach chains to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE: Use chain spacers as shown when installing ProGuard chains.**
- 3) Install protective surfacing before users are allowed to play on the structure.

Anti-wrap Swing Hangers

- 1) Attach chains to aluminum clevis using 3/8" x 7/8" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE: Use chain spacers as shown when installing ProGuard chains.**
- 3) Install protective surfacing before users are allowed to play on the structure.

SWING HANGER OPTIONS





Parts List

Part#	Description	Qty.
8 Ft. High Beam		
186276-00	Full-Bucket Swing Seat, Black	1
160110-00	52 9/16" Chain, TenderTuff, Specify Color	2
174882-00	52 9/16" Chain, ProGuard	2
138414-00	Bucket Seat Hardware Package	1
100290-00	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	2
112501-00	Chain Spacer (For ProGuard Chains Only)	4
10 Ft. High Beam		
186276-00	Full-Bucket Swing Seat, Black	1
152051-00	76 7/16" Chain, TenderTuff, Specify Color	2
174883-00	76 7/16" Chain, ProGuard	2
138414-00	Bucket Seat Hardware Package	1
100290-00	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	2
112501-00	Chain Spacer (For ProGuard Chains Only)	4
7 Ft. High Beam (Tot)		
186276-00	Full-Bucket Swing Seat, Black	1
152053-00	37 1/2" Chain, TenderTuff, Specify Color	2
175247-00	37 1/2" Chain, ProGuard	2
138414-00	Bucket Seat Hardware Package	1
100290-00	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	2
112501-00	Chain Spacer (For ProGuard Chains Only)	4
75" High Beam (Toddler)		
186276-00	Full-Bucket Swing Seat, Black	1
152016-00	29 7/8" Chain, TenderTuff, Specify Color	2
174881-00	29 7/8" Chain, ProGuard	2
138414-00	Bucket Seat Hardware Package	1
100290-00	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	2
112501-00	Chain Spacer (For ProGuard Chains Only)	4

Specifications

Full-Bucket Seat:	Seat shall be molded of U.V. stabilized, high quality, black rubber, encapsulating a 24 gauge stainless steel reinforcement plate. Handle cast from 356-T6 aluminum alloy with black polyarmor paint finish. Handle attaches to seat with (3) 1/4" x 1 5/16" long stainless steel rivets. The finished size of the full bucket shall be 9" deep x 10 1/2" wide.
Chain/Coated:	Steel 3/16" straight link chain, 800 lb. working load limit. Finish: TenderTuff, color specified.
Chain/ProGuard:	Steel 3/16" straight link chain, 800 lb. working load limit. Finish: ProGuard.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time:	1/4 man hour per seat
Weight:	14 lbs. (8 FT. Beam w/TenderTuff Chain)
	14 lbs. (8 FT. Beam w/ProGuard Chain)
	17 lbs. (10 FT. Beam w/TenderTuff Chain)
	16 lbs. (10 FT. Beam w/ProGuard Chain)
	12 lbs. (7 FT. Beam w/TenderTuff Chain)
	12 lbs. (7 FT. Beam w/ProGuard Chain)
	11 lbs. (75" Beam w/TenderTuff Chain)
	11 lbs. (75" Beam w/ProGuard Chain)

Installation Instructions

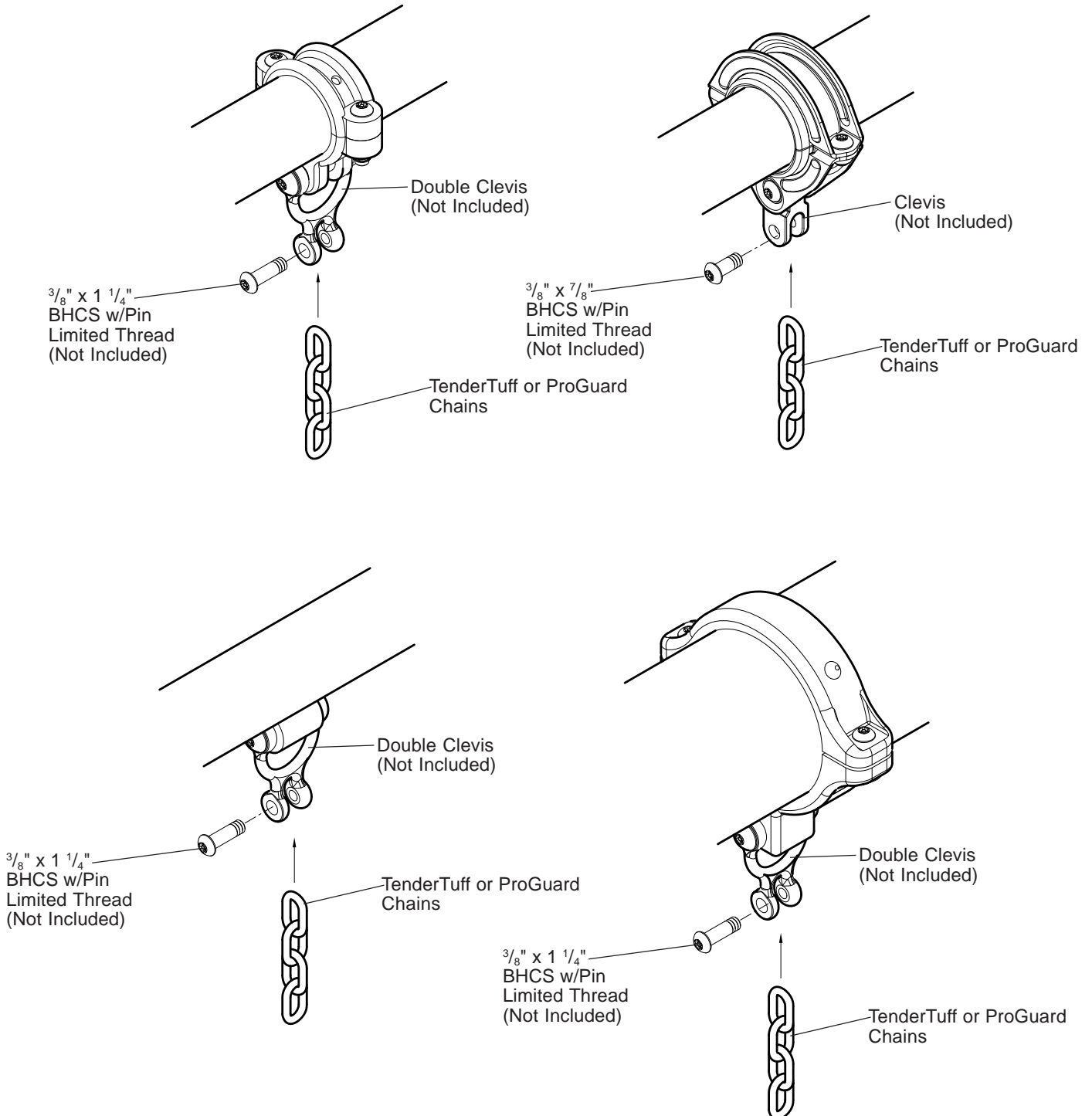
Swing Hangers with Double Clevis

- 1) Attach chains to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread bolts, as shown.
- 2) Attach chains to full-bucket seat using 3/8" x 7/8" BHCS w/pin limited thread bolts. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

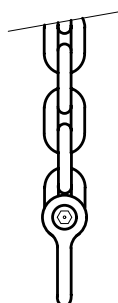
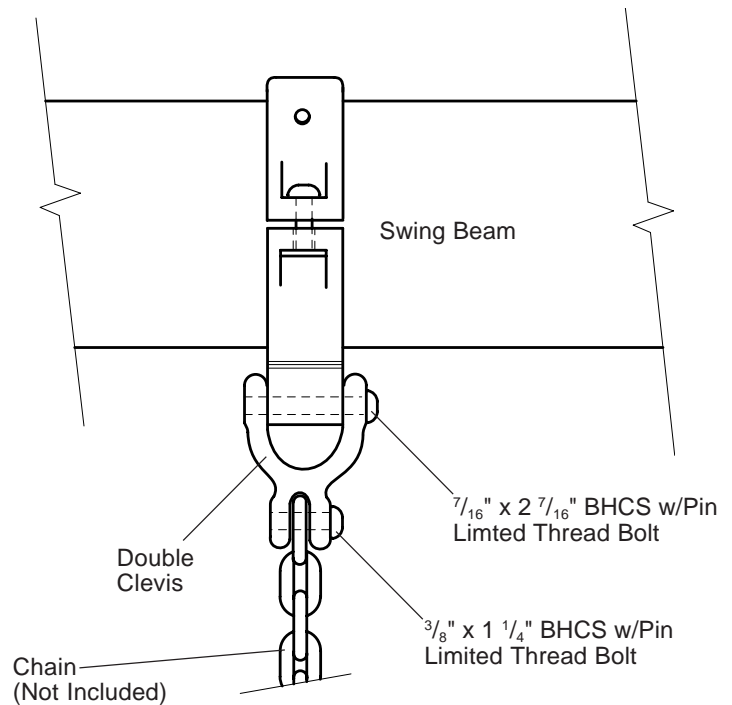
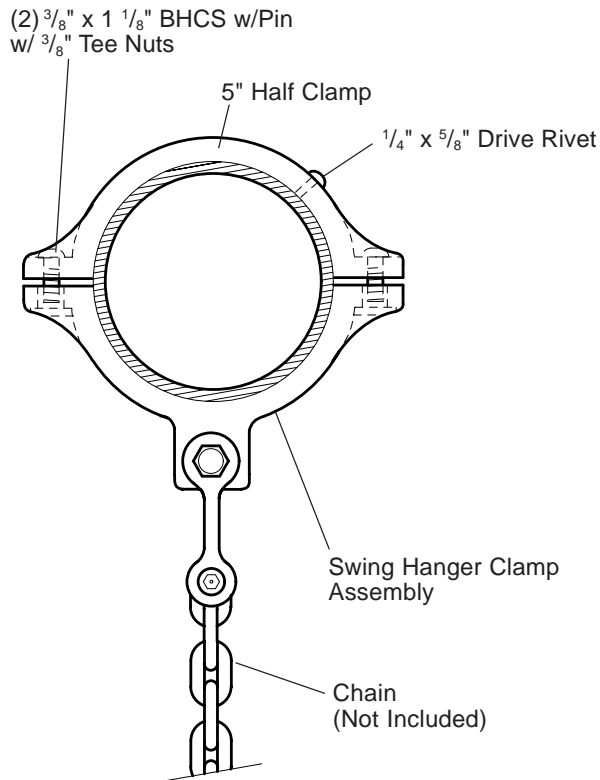
Anti-wrap Swing Hangers

- 1) Attach chains to aluminum clevis using 3/8" x 7/8" BHCS w/pin limited thread bolts, as shown.
- 2) Attach chains to full-bucket seat using 3/8" x 7/8" BHCS w/pin limited thread bolts. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

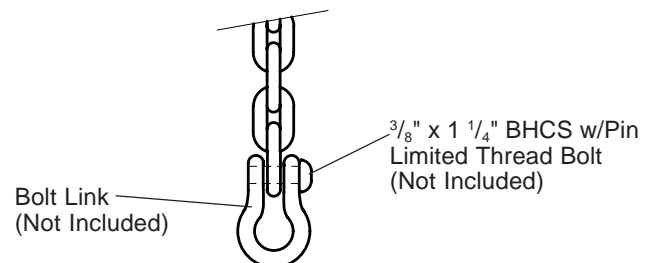
SWING HANGER OPTIONS



Document #13871600



NOTE:
Do Not Over-Tighten Limited Thread Bolt! Threads Should Not Protude Past Bolt Link.



NOTE:
Position Bolt Head Inward Facing User.

Swings

111418 Swing Hanger, Belt Swing

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

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Document #18379700

Parts List

Part#	Description	Qty.
105327-01	5" Half Clamp, Specify Color	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	1
100292-00	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/Pin Ltd. Thread Bolt, SST	1
121291-00	Swing Hanger Clamp Assy. Specify Color	1
121289-00	Swing Hanger Clamp, Specify Color	1
127068-00	$\frac{7}{16}$ " x 2 $\frac{7}{16}$ " BHCS w/Pin Ltd. Thread Bolt, SST..	1
138917-00	Swing Hanger Double Clevis SST	1
100667-00	Oilite Bushing	1

Specifications

Hanger Clamp

Assembly: Cast aluminum. Finish: ProShield®, color specified.

Double Clevis: Stainless Steel.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

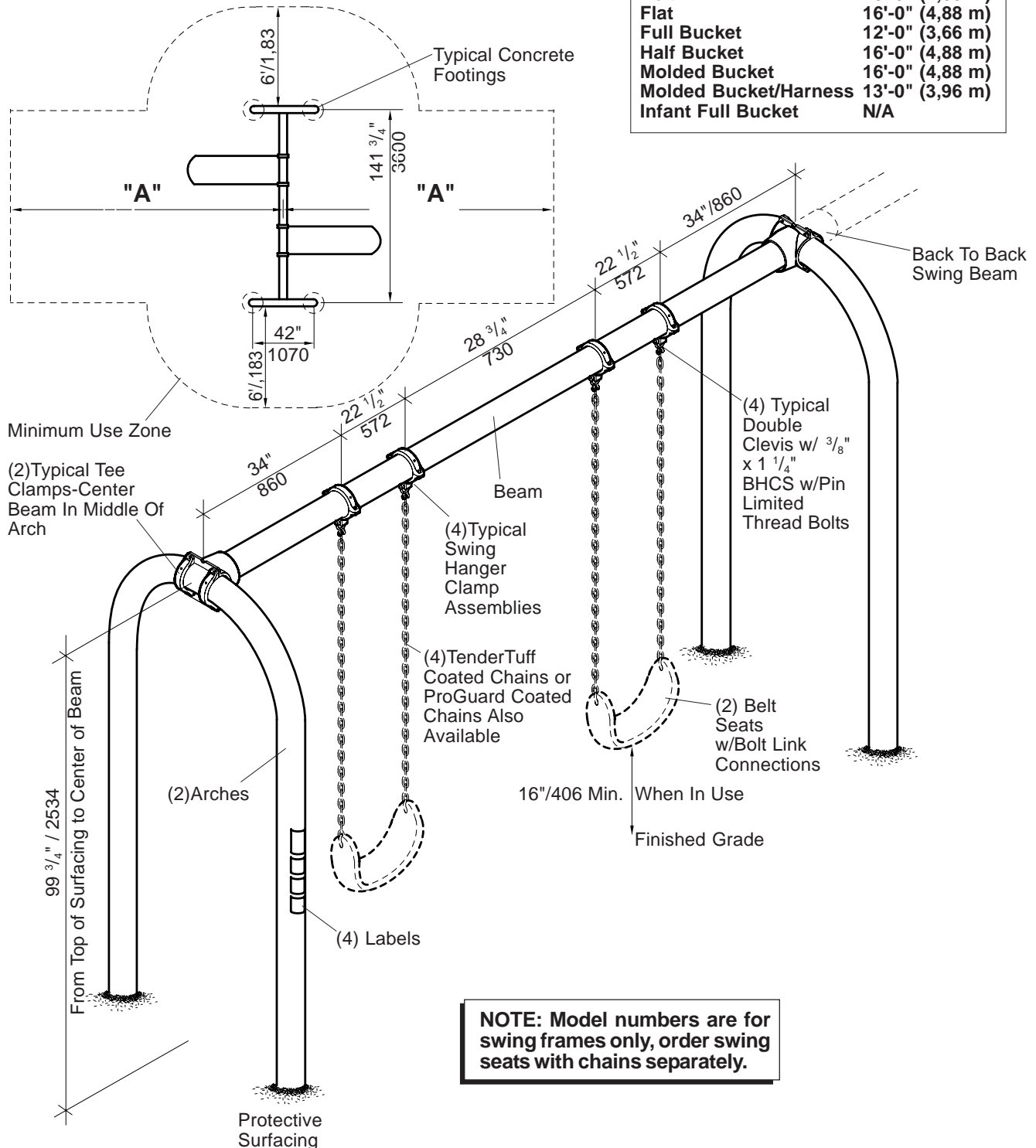
Installation Time: Approx. $\frac{1}{2}$ man hour

Weight: 6 lbs.

Installation Instructions

- 1) Locate and mark location of clamp on beam.
- 2) Attach 5" half clamp and swing hanger clamp to beam using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. *Tighten evenly.*
- 3) **IMPORTANT:** *Drill through holes in 5" half clamps and into 5" pipe with a $\frac{1}{4}$ " or "F" (only) drill bit, tap $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets through 5" half clamps and into pipe, to ensure that clamps remain secure.*
- 4) Attach swing chain to double clevis using $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/pin limited thread bolts.
- 5) Attach swing seat to chains using bolt links with $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/pin limited thread bolts. **NOTE:** *Do not over-tighten limited thread bolt. Threads should not protrude past bolt link. Position bolt head inward facing user.*

PLAN VIEW/FOOTING LAYOUT



Model #177331 Additional Bay

Swings

177330/177331 Arch Belt Swing Frame

Sheet 1 of 2

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

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Document #18448000



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Swings 177330/177331 Arch Belt Swing Frame

Parts List

Part#	Description	Qty.	2 Pl	Add. Bay
126749-00	Swing Arch, Specify Color	2	.....	1
100610-00	1/4" x 3/8" Drive Rivet, AL/SST	8	.....	6
105327-01	5" Half Clamp, Specify Color	8	.....	4*
146160-00	141 3/4" Swing Beam, Specify Color	1	.....	1
121291-00	Swing Hanger Clamp Assy. Specify Color	4	.....	4
121289-00	Swing Hanger Clamp, Specify Color	4	.....	4
127068-00	7/16" x 2 7/16" BHCS w/Pin Ltd. Thread, SST	4	.....	4
138917-00	Swing Hanger Double Clevis	4	.....	4
100667-00	Oilite Bushing	4	.....	4
184227-00	Arch Swing 5" O.D. Beam Hardware Pkg.	1	.....	1
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	8	.....	8
113027-00	3/8" x 1 3/8" BHCS w/Pin, SST	8	.....	8
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	4	.....	4
100351-00	3/8" Tee Nut, SST	16	.....	16
156846-00	Play Safe Label, 2-12 Yrs.	1	.....	1
128296-00	3/8" Hex Jam Nut, SST	8	.....	8
182213-00	Hot Surface Warning Label	2	.....	1
182212-00	Entanglement Warning Label	2	.....	1
115176-00	Hard Surface Warning Label	2	.....	1

* = 5" Half Clamps From 2 PL. End Of Beam Need To Be Used.

Specifications

Arch Posts: See PlayBooster® (PB) General Specifications.

Swing Beam: Weldment comprised of tee clamps and 5" O.D. extruded 6005-T5 aluminum alloy tube with a .125" W. Finish: ProShield®, color specified.

Hanger Clamp

Assembly: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 8 man hours
Additional Bay 4 man hours

Concrete Req.: Approx. 7.5 cu. ft.
Additional Bay 3.75 cu. ft.

Area Req.: 24'-2 3/4" x 32' (7,39 m x 9,75 m)
Additional Bay 11'-9 3/4" x 32' (3,60 m x 9,75 m)

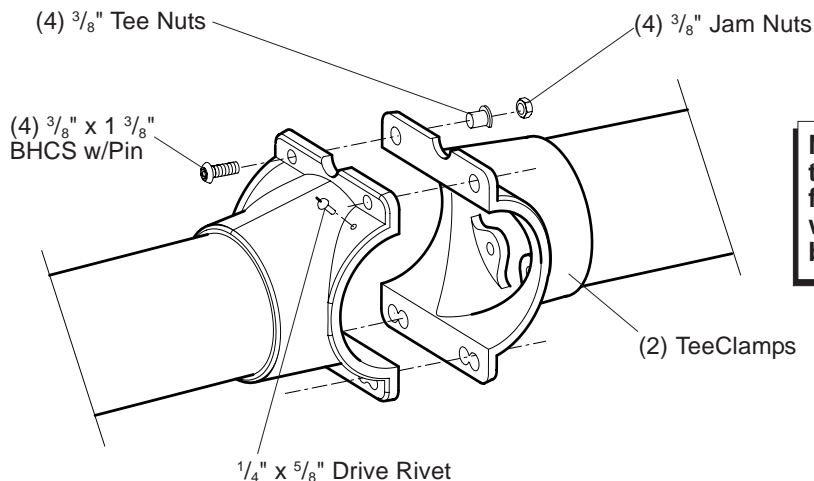
Weight: 204 lbs.
Additional Bay 124 lbs.

Fall Height: 96" (2,43 m)

Installation Instructions

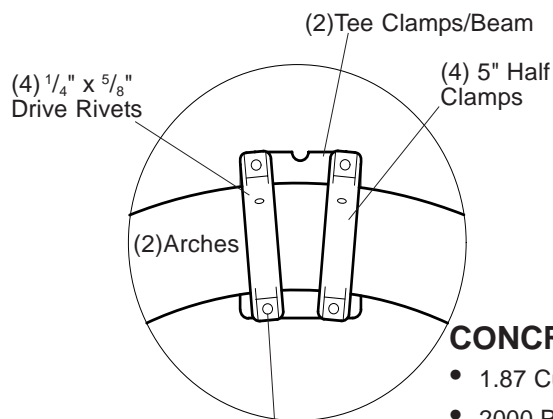
- 1) Dig footings, spaced as shown. Refer to the Concrete Footing Detail.
- 2) Set arches in footing holes and attach swing beam to center of arches using 5" half clamps with 3/8" x 1 3/8" BHCS w/pin and 3/8" tee nuts with 3/8" jam nuts. Refer to the Tee Clamp Position Detail. Center of beam should be 99 3/4" above finished grade. When installing back to back swing beams refer to the Back To Back Tee Clamps Detail.
- 3) Level beam and plumb arches and temporarily prop in position. Pour concrete footings and let cure for 72 hours before proceeding.
- 4) Locate, mark and attach swing hanger clamps to beam in locations shown. Refer to the Typical Swing Hanger Clamp Spec Sheet.
- 5) **NOTE:** Refer to specific swing seat installation document for attaching chains and seats.
- 6) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet. Refer to the Back To Back Tee Clamps Detail.
- 7) Apply Play Safe and Warning Labels, as shown.
- 8) Install protective surfacing before users are allowed to play on the swing.

DETAIL BACK TO BACK TEE CLAMPS



NOTE: Drill 1/4\"

DETAIL TEE CLAMP POSITION

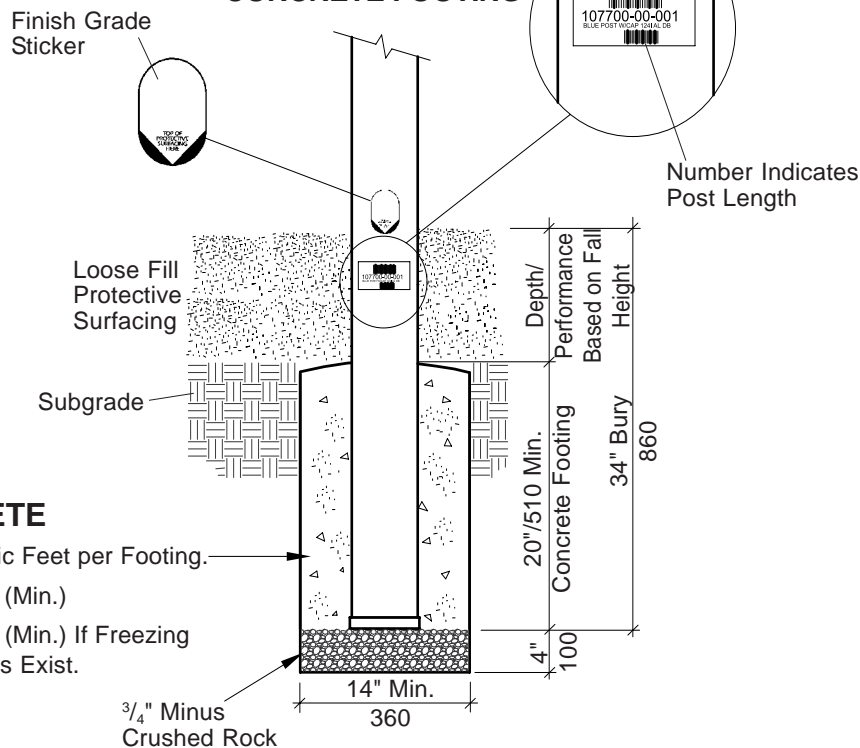


NOTE: Use Inside Holes
For (4) 3/8\"

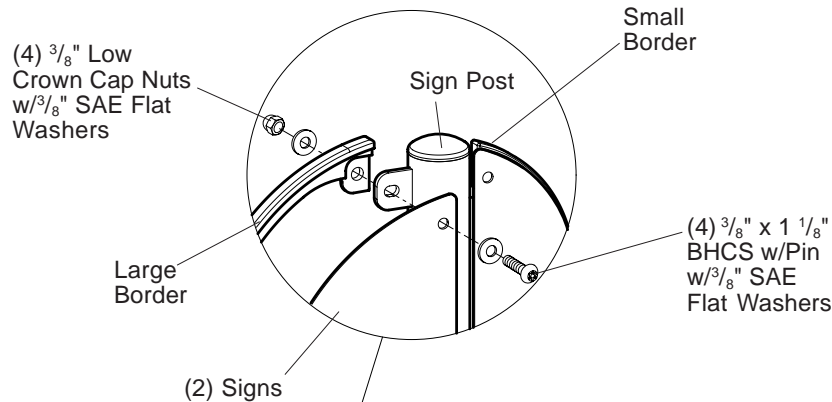
CONCRETE

- 1.87 Cubic Feet per Footing.
- 2000 PSI (Min.)
- 3000 PSI (Min.) If Freezing Conditions Exist.

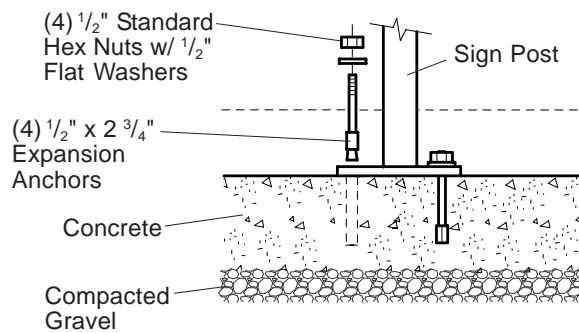
DETAIL CONCRETE FOOTING



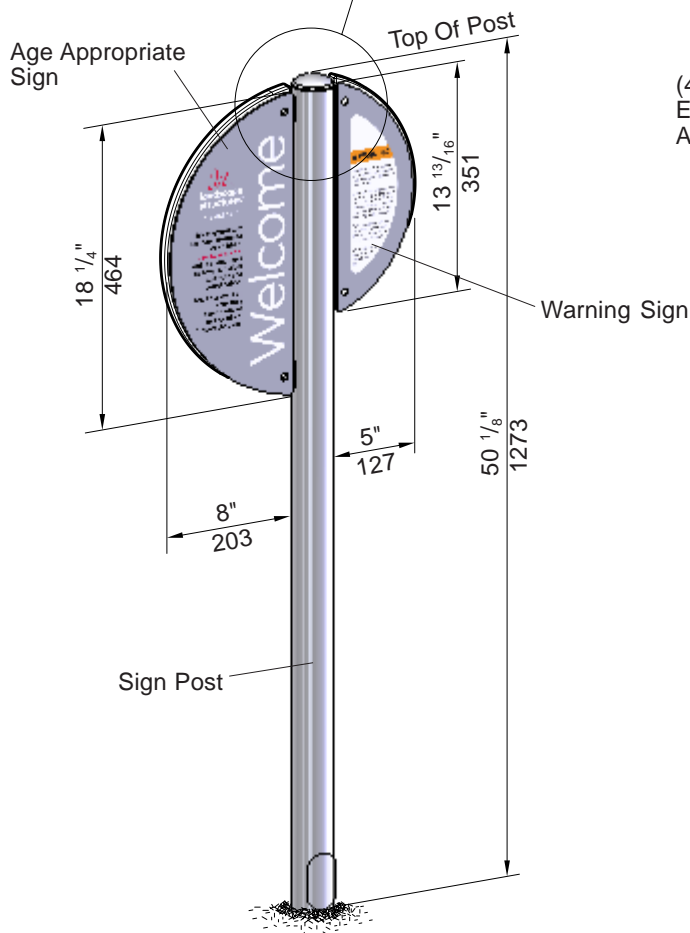
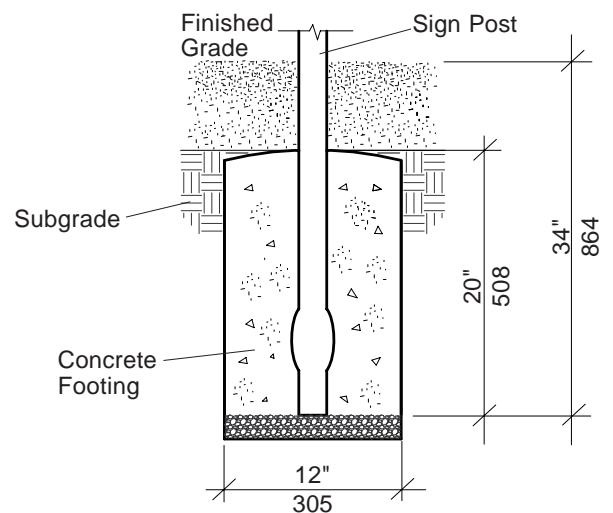
DETAIL SIGN ATTACHMENT



DETAIL SURFACE MOUNT



DETAIL DIRECT BURY FOOTING



Model 182503 - Landscape Structures Provided Welcome Sign
Model 182504 - Welcome Sign

Signs

Welcome Sign

Parts List

Part#	Description	Qty.
180600-00	Warning Sign, Gray	1
180599-00	Age Appropriate Sign, 2-12 Years, Gray	*
182018-00	Age Appropriate Sign, 2-5 Years, Gray	*
182019-00	Age Appropriate Sign, 5-12 Years, Gray	*
182020-00	Age Appropriate Sign, 1 1/2-5 Years, Gray	*
182021-00	Age Appropriate Sign, 1 1/2-12 Years, Gray	*
182022-00	Age Appropriate Sign, 6-23 Months, Gray	*
180598-00	Sign Post (DB), Specify Color	*
181119-00	Sign Post (SM), Specify Color	*
193782-00	Large Border, Black	1
193783-00	Small Border, Black	1
193785-00	Age/Warning Sign Hardware Package	1
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	4
100349-00	3/8" Low Crown Cap Nut, SST	4
100365-00	3/8" SAE Flat Washer, SST	8
121348-00	4 Hole (SM) Hardware Package	1
100266-00	1/2" x 2 3/4" Expansion Anchor	4
100322-00	1/2" Standard Hex Nut, SST	4
100363-00	1/2" Flat Washer, SST	4

DB = Direct Bury

SM = Surface Mount

* = Quantity Determined By Your Order

Specifications

Sign Panel: Panel is fabricated from 11 GA. (.120") (3,05 mm) steel sheet. Finish: ProShield®, gray in color. **(Sign)** Digital image is transferred to a .120" (3,05 mm) thick ProShield coated steel plate, then infused into the ProShield.

Border: Permalene, black in color.

Post: Weldment comprised 2.375" (60,33 mm) O.D. RS20 (.095-.105) (2,41 mm-2,67 mm) wall galvanized tube, 1/4" (6,35 mm) HRPO steel sheet and aluminum post cap. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: (DB) Approx. 1 man hour
(SM) Approx. 1/2 man hour

Concrete Req: Approx. 1.31 cu. ft.

Weight: (DB) - 24 lbs.
(SM) - 27 lbs.

Installation Instructions

Direct Bury

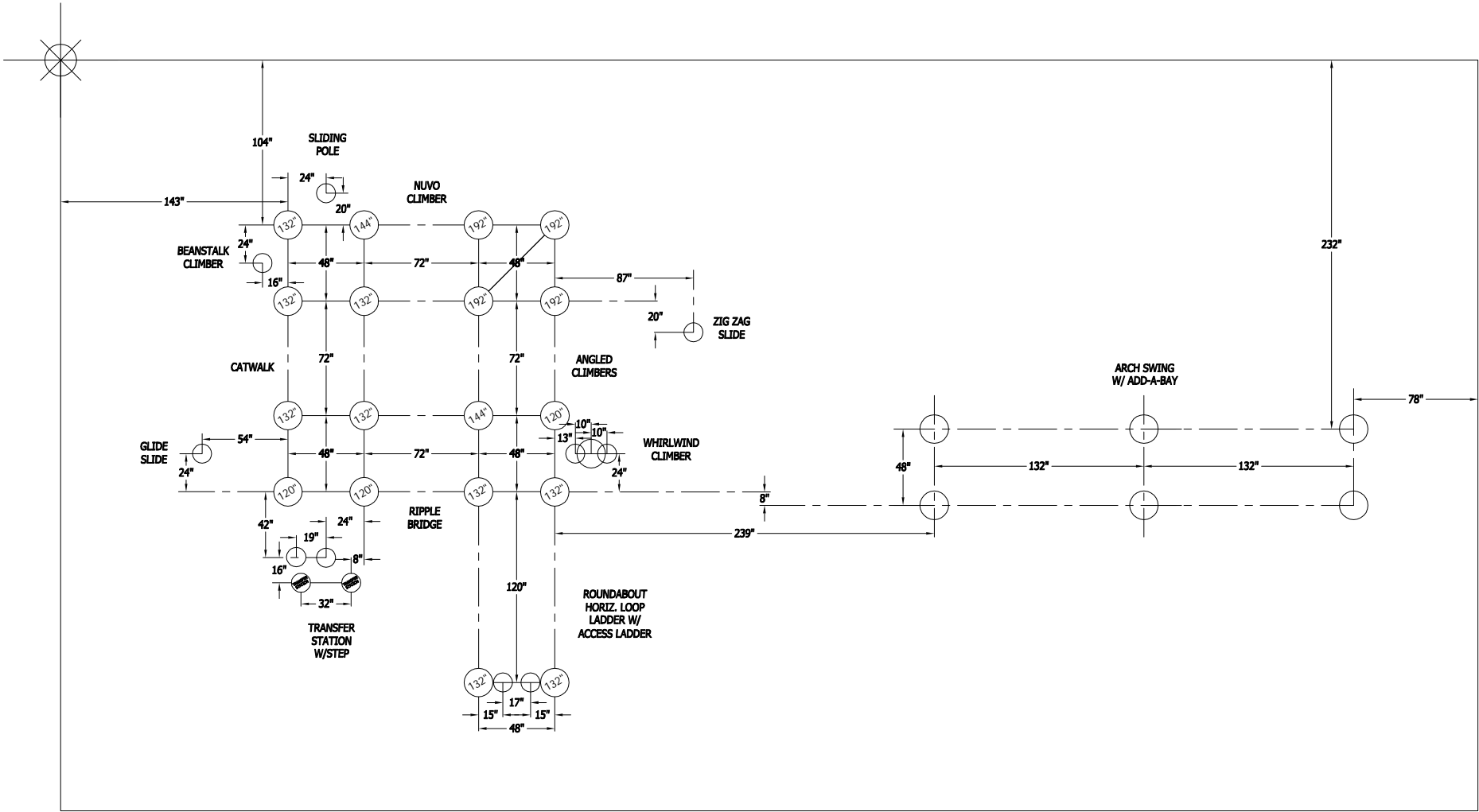
- 1) Dig footing hole to depth and diameter shown.
- 2) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers
- 3) Set sign assembly in footing hole and temporarily brace in plumb position.
- 4) Pour concrete footing. After concrete has cured, remove bracing.

Surface Mount

- 1) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers
- 2) With sign in proper position, using a 1/2" masonry bit and hammer drill, drill 3" deep holes into concrete slab through holes in post plate. Tap 1/2" x 2 3/4" expansion anchors into holes and secure using 1/2" standard hex nuts with 1/2" flat washers.

BADGER PARK
PLAYGROUND MANUFACTURER'S INSTALLATION INFORMATION

*Playground Supervision Required



LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523

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PROJECT NO: BADGERS	REV: -	DATE: 11-FEB-15
SYSTEM: PLAYMAKERS		SCALE: 1/8" = 1'-0"
FOOTING PLAN		DRAWN BY: DANA GRUBBS

FOOTING LEGEND	
	= COMPONENT FOOTING (DETAIL 3)
	= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
	= SUPPORT POST FOOTING (DETAIL 1 or 4) (112" (2845mm) INDICATES POST LENGTH)
	= CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2) (ZZCH1850 INDICATES PART NUMBER)
	= GROUND ZERO POST FOOTING (DETAIL 2) (144" (3658mm) INDICATES POST LENGTH)

BADGER PARK



Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

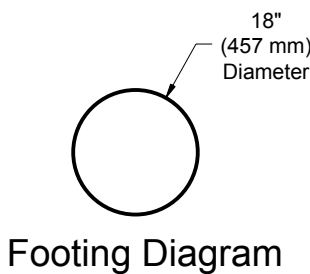
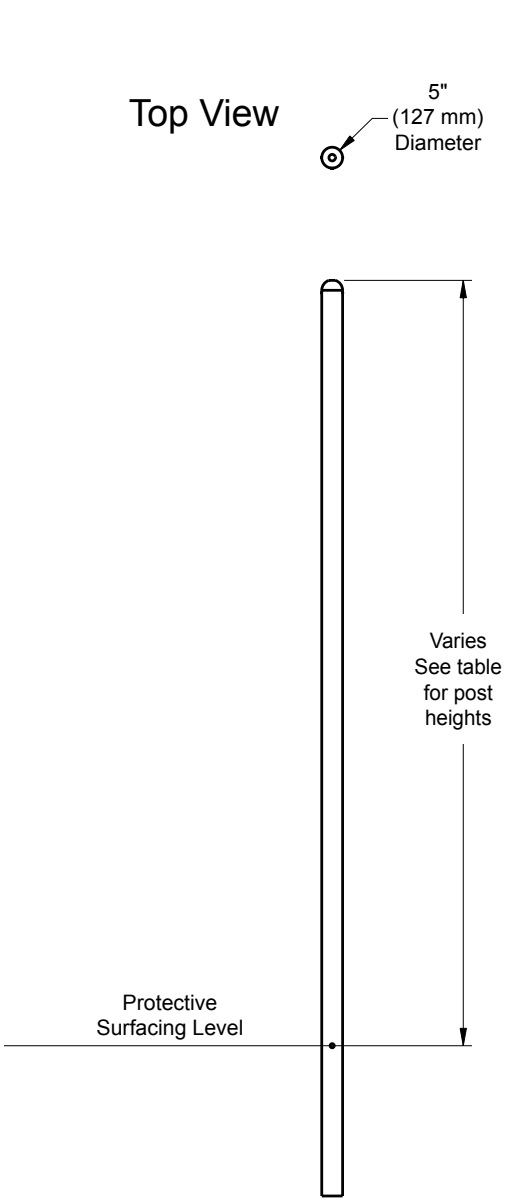


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A

Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

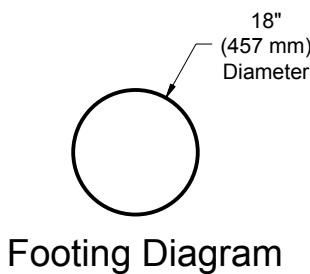
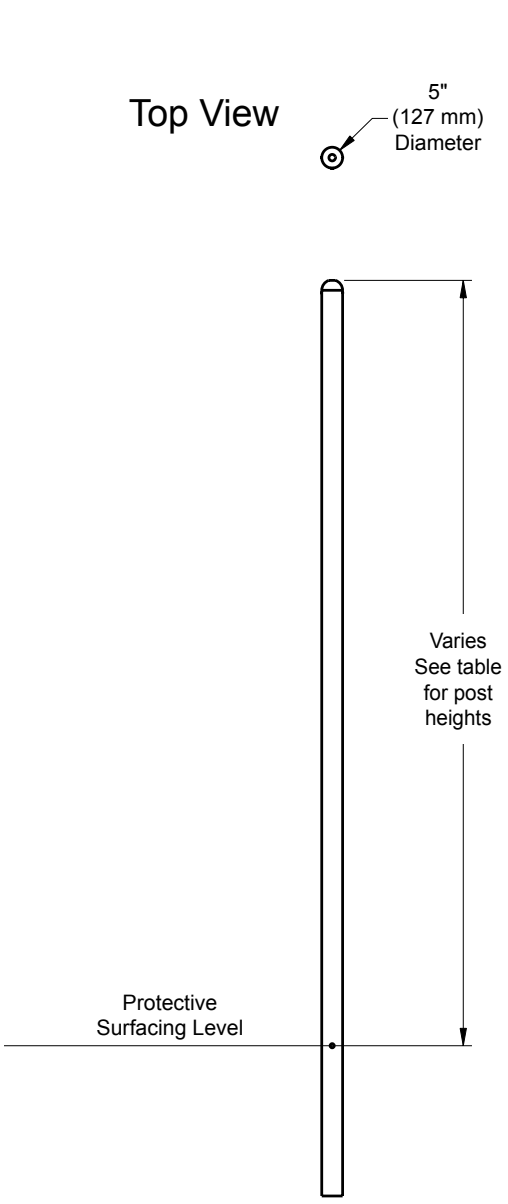


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

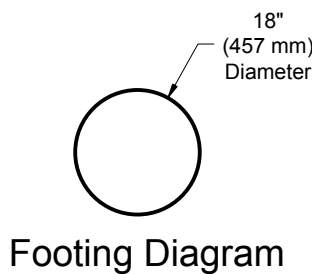
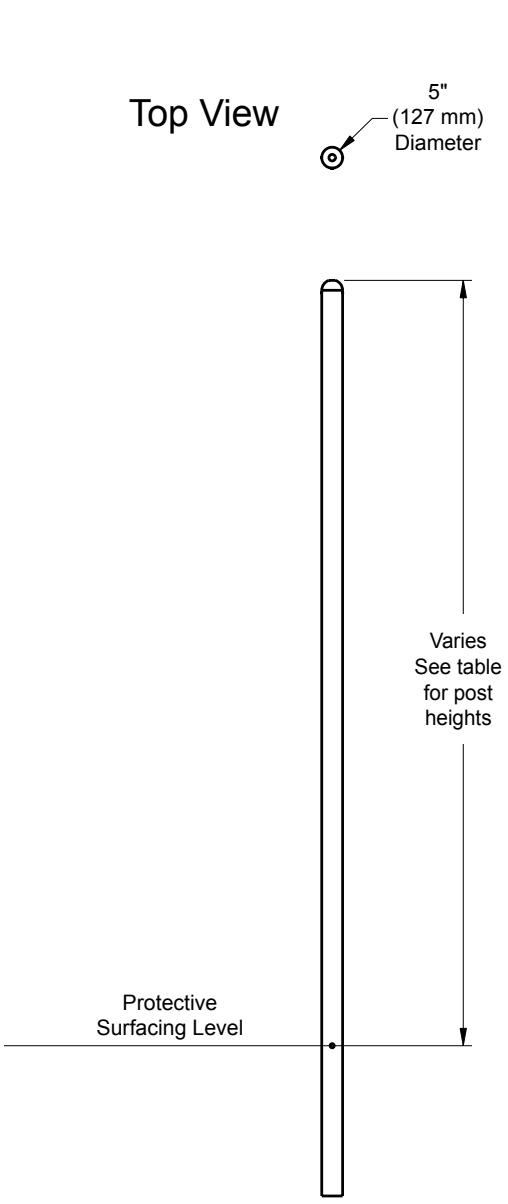


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A,
PM0047A, PM0057A, PM0067A, PM0079A, PM0129A,
PM0136A, PM0138A, PM0267A, PM0269A

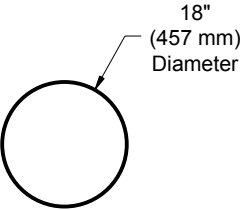
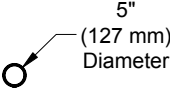
Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

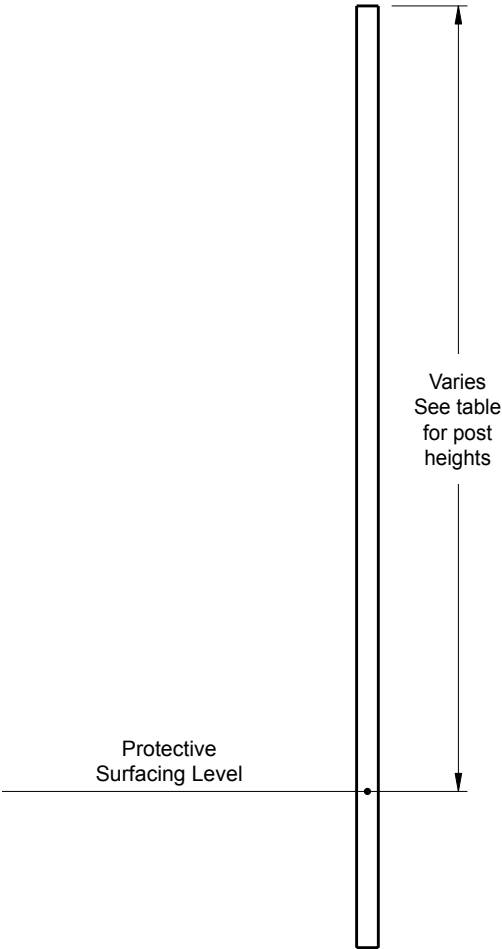
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 kg)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



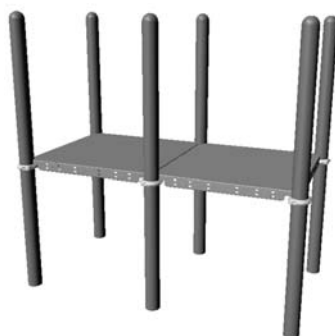
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Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616
Square Deck



ZZPM0629
Long Deck

Assembly View

Installation Preparation

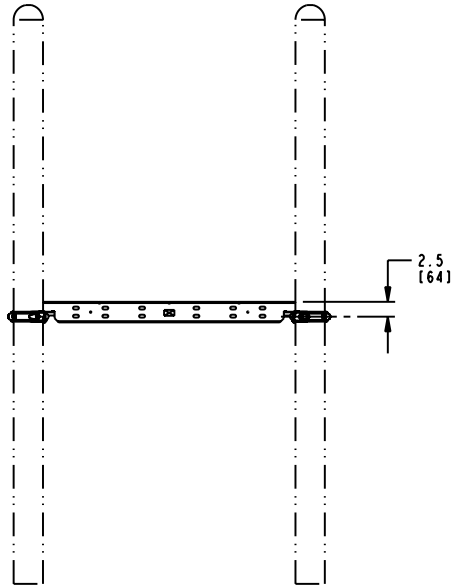
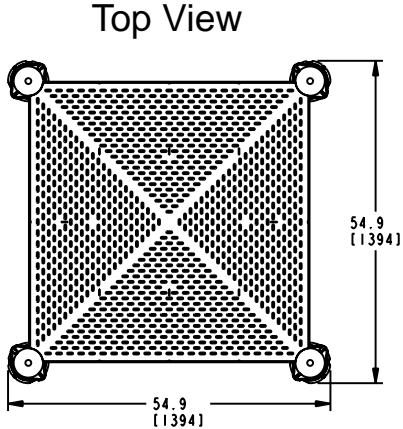
Recommended Crew (PM0616):..... Two (2) adults
Recommended Crew (PM0629):..... Four (4) adults
Installation Time (PM0616): 1 man-hour
Installation Time (PM0629): 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

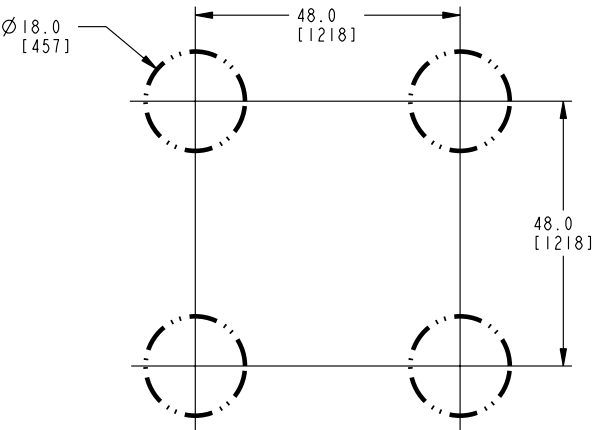
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	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

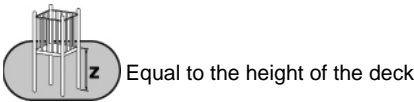
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Bottom #	[Millimeters]



Elevation View
Model PM0616

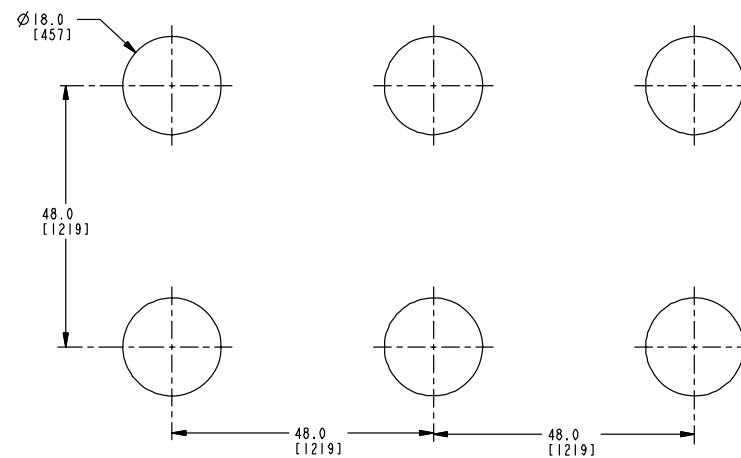
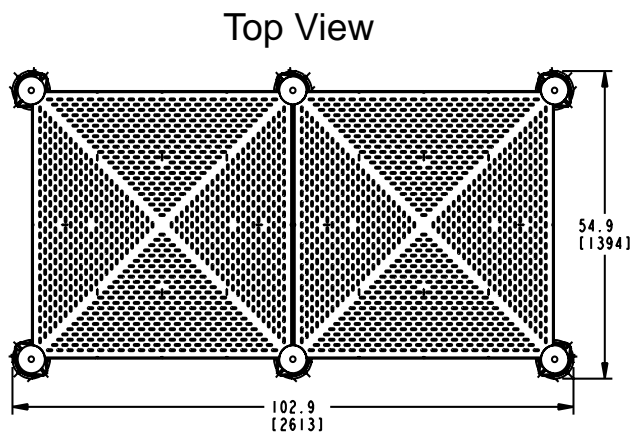


Footing Diagram

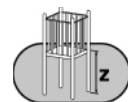
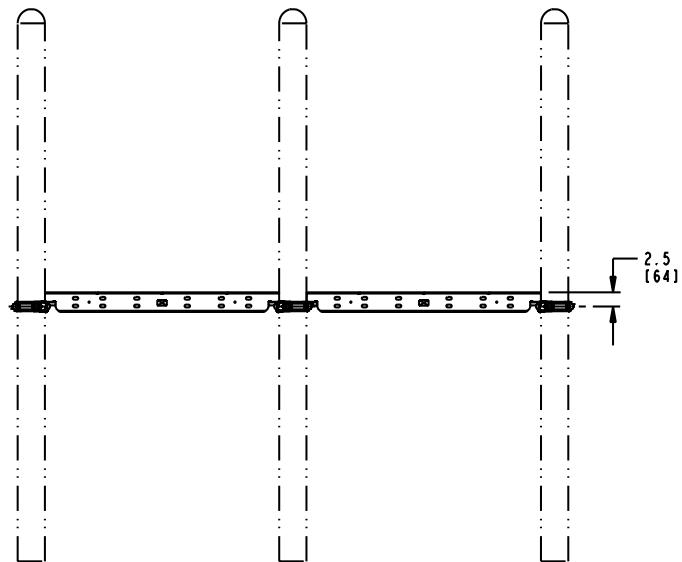


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



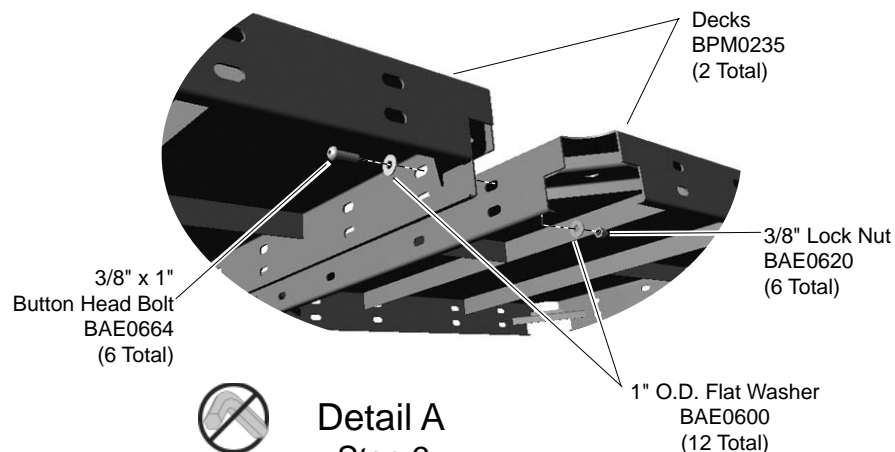
Equal to the height of the deck

Elevation View
Model PM0629



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

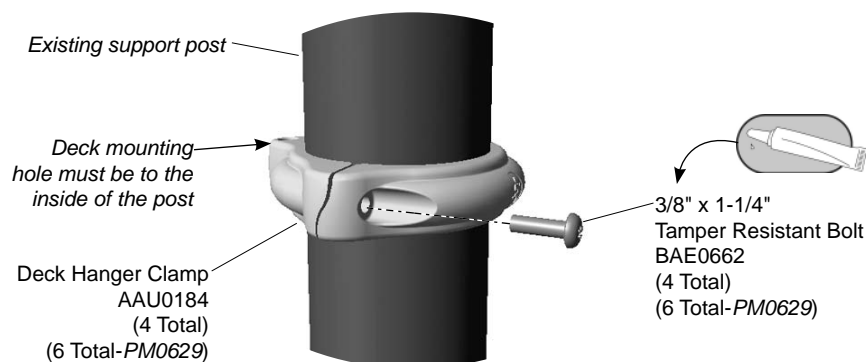


Detail A

Step 3

(Model PM0629 Only)

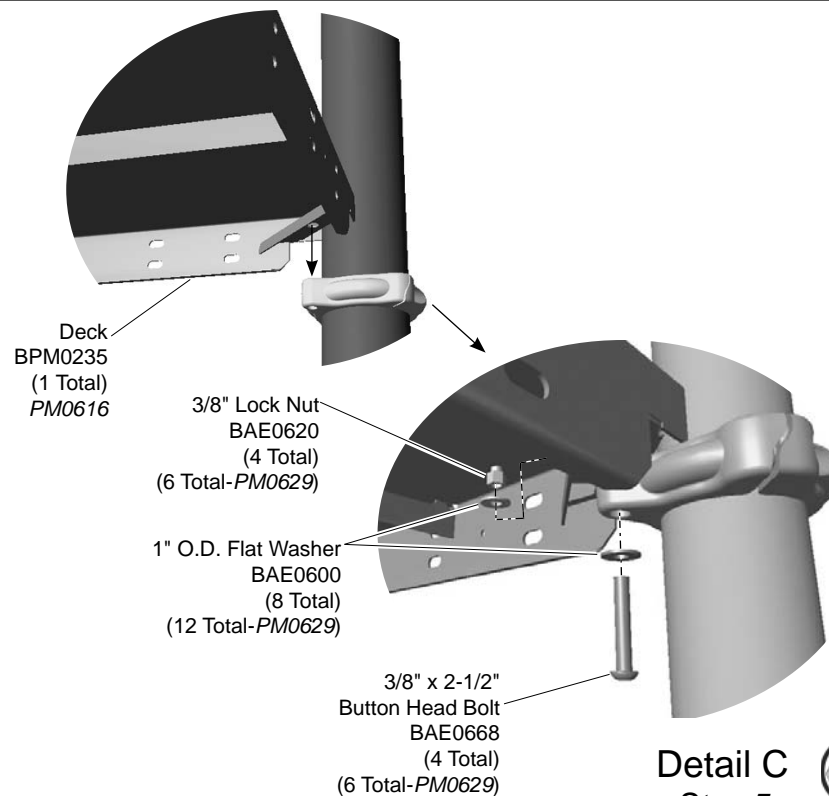
Attach the two decks together.



Detail B

Step 4

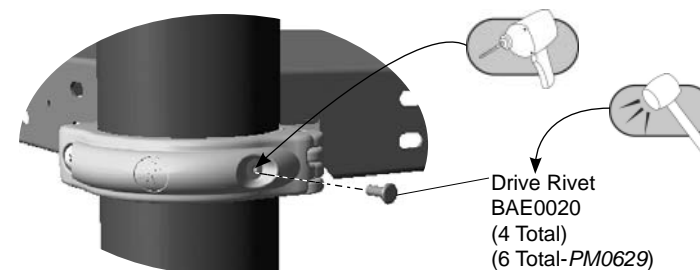
Attach the deck clamps to the support posts.



Detail C

Step 5

Attach the decks to the clamps.



Detail D

Step 7

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: (Model PM0629 Only) Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0235	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



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Installation Instructions

Playmakers® PM0617, and PM0639
Triangular and 45 Degree Tri-Deck
Coated Perforated Decks



ZZPM0617
Triangular Deck



ZZPM0639
45 Degree Tri-Deck

Assembly View

Installation Preparation

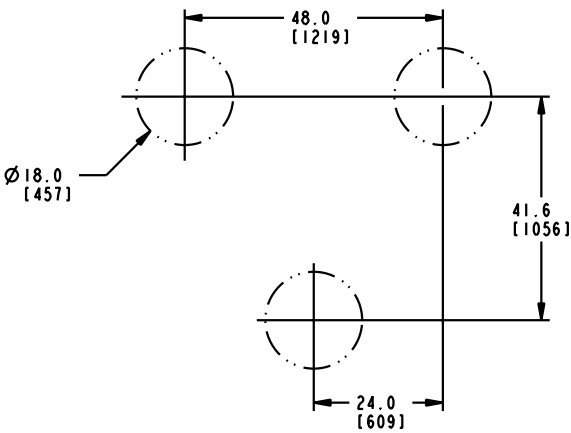
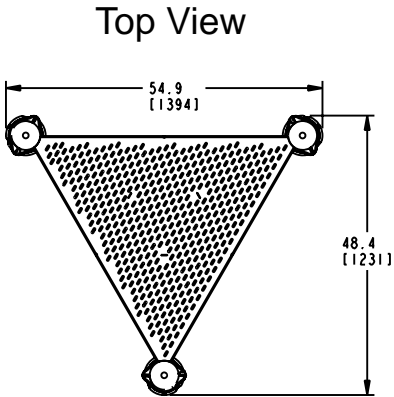
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

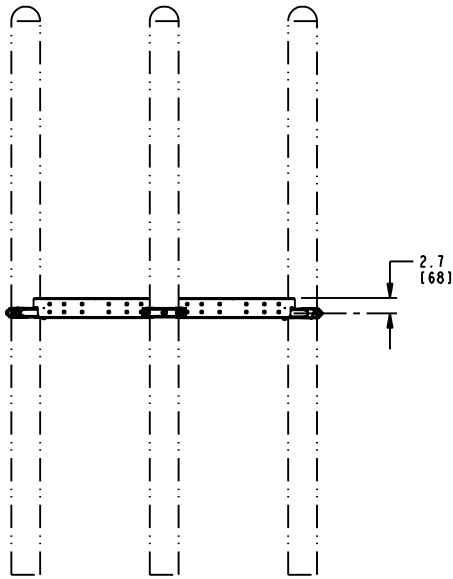
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

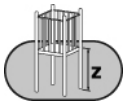
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
Model PM0617

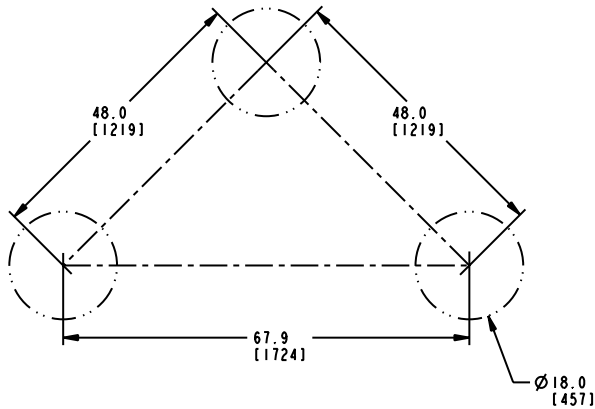
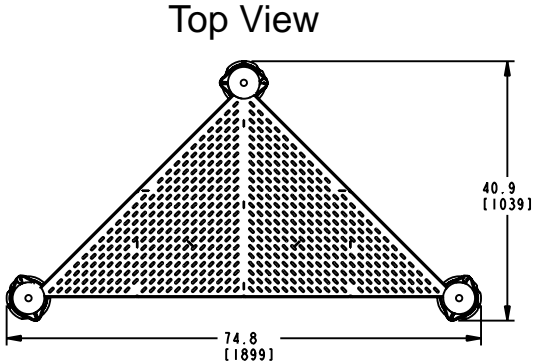


Equal to the height of the deck

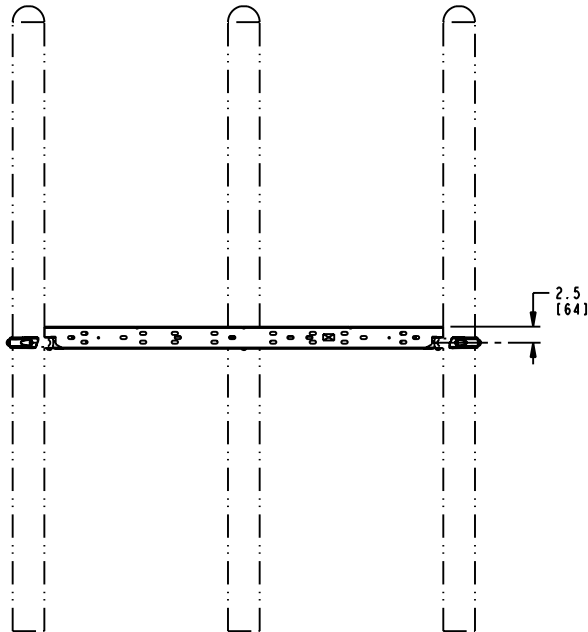


Installation Instructions

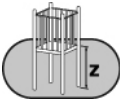
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
Model PM0639

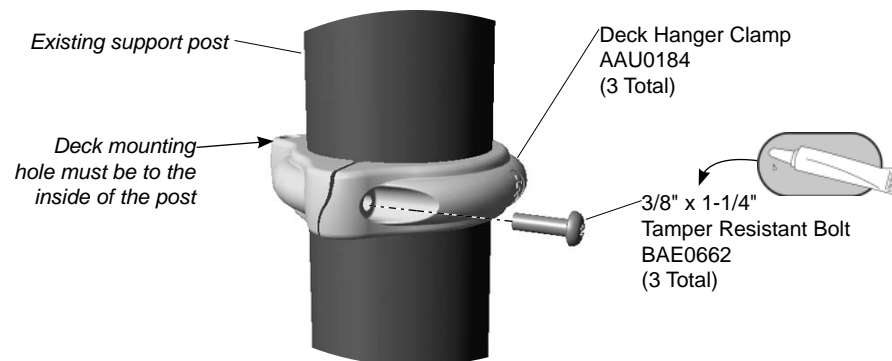


Equal to the height of the deck



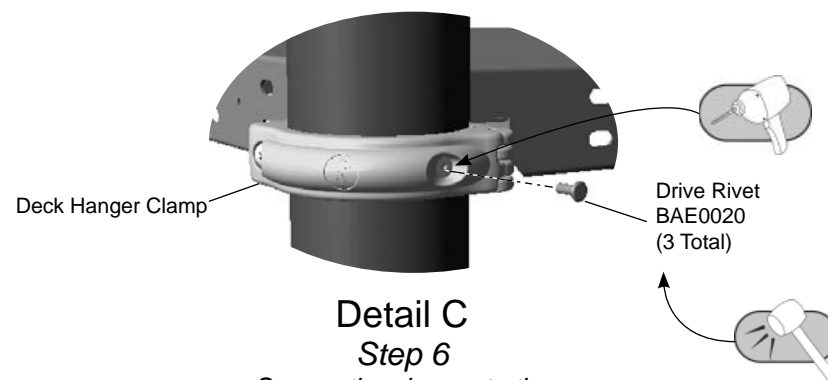
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3

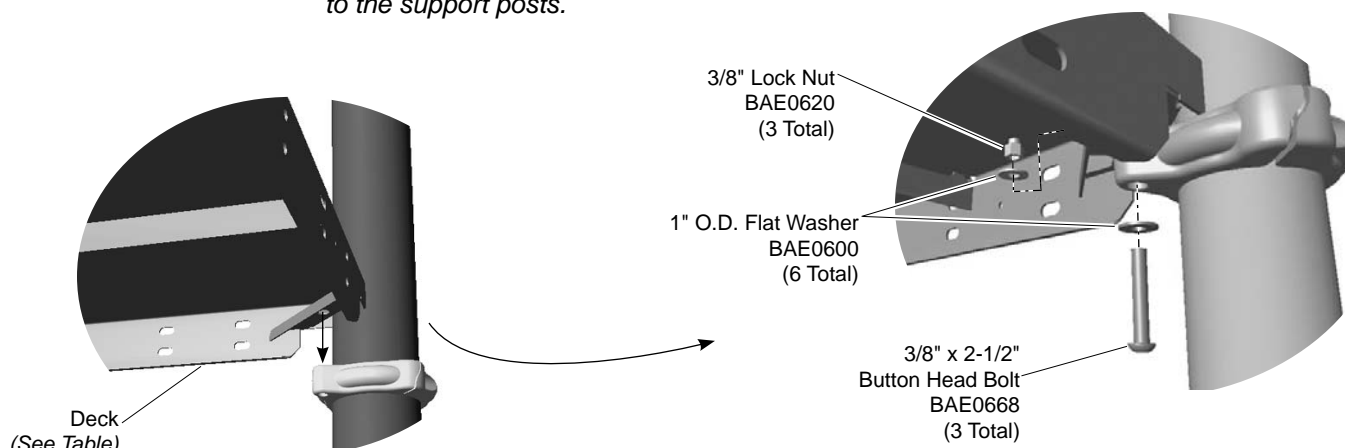
Attach the deck hanger clamps to the support posts.



Detail C

Step 6

Secure the clamps to the support posts.



Detail B
Step 4

Attach the deck to the deck hanger clamps.

Model	Deck Shape	Deck Part Number
ZZPM0617	Triangular	BPM0287
ZZPM0639	45° Tri-Deck	BPM0289

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: Attach the clamps to the support posts. See **Detail A**. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 4: Attach the deck to the clamps. See **Detail B**. Using adequate manpower, position the deck between the posts and resting on top of the clamps. Align the holes and attach as shown.

Final Details.

Step 5: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0617 - TRIANGULAR COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0287	PLATFORM - PM TRIANGULAR PERF	1

PM0639 - 45 DEGREE TRI-DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0289	PLATFORM - PM 45 DEG TRI DECK	1



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Assembly View (representative model)

Model	Weight
ZZPM2517	9.6 lbs. (4.3 kg)
ZZPM2537	16.3 lbs. (7.4 kg)

Installation Instructions

Playmakers® Model PM2517 and PM2537

6 in (152 mm) and 12 in (305 mm)

45 Degree Tri Deck Kickplate

Installation Preparation

Recommended Crew: One (1) adults

Installation Time: 0.25 man-hours

Weight: (refer to table)

ICON KEY

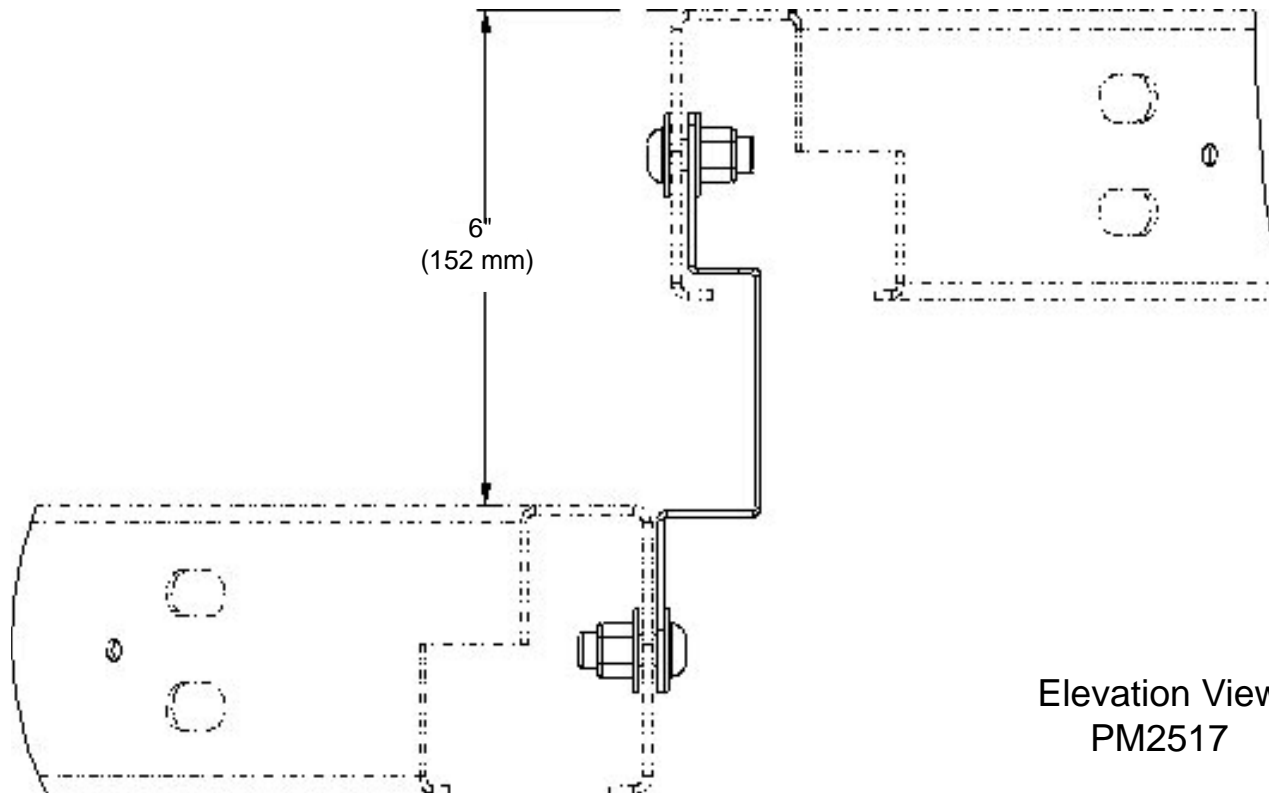


Fully Tighten
Hardware



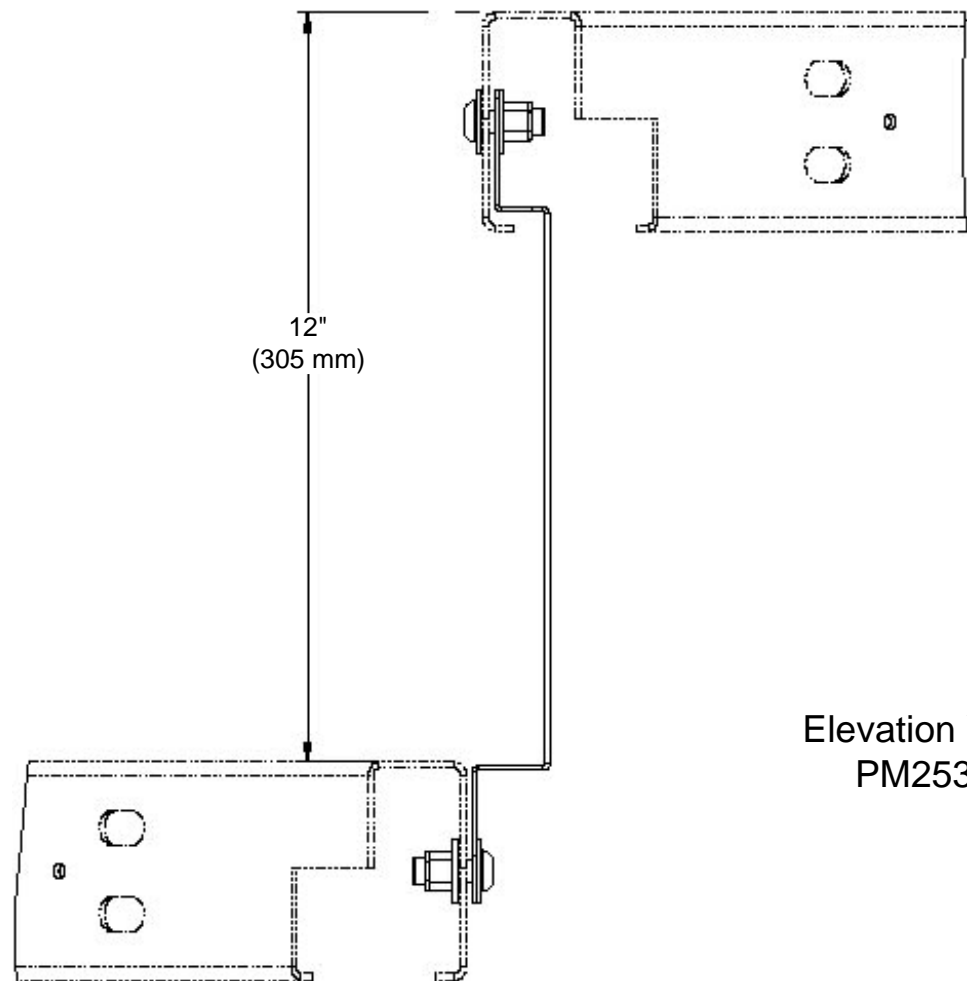
Do **Not** Fully Tighten
Hardware

Installation Instructions



Elevation View
PM2517

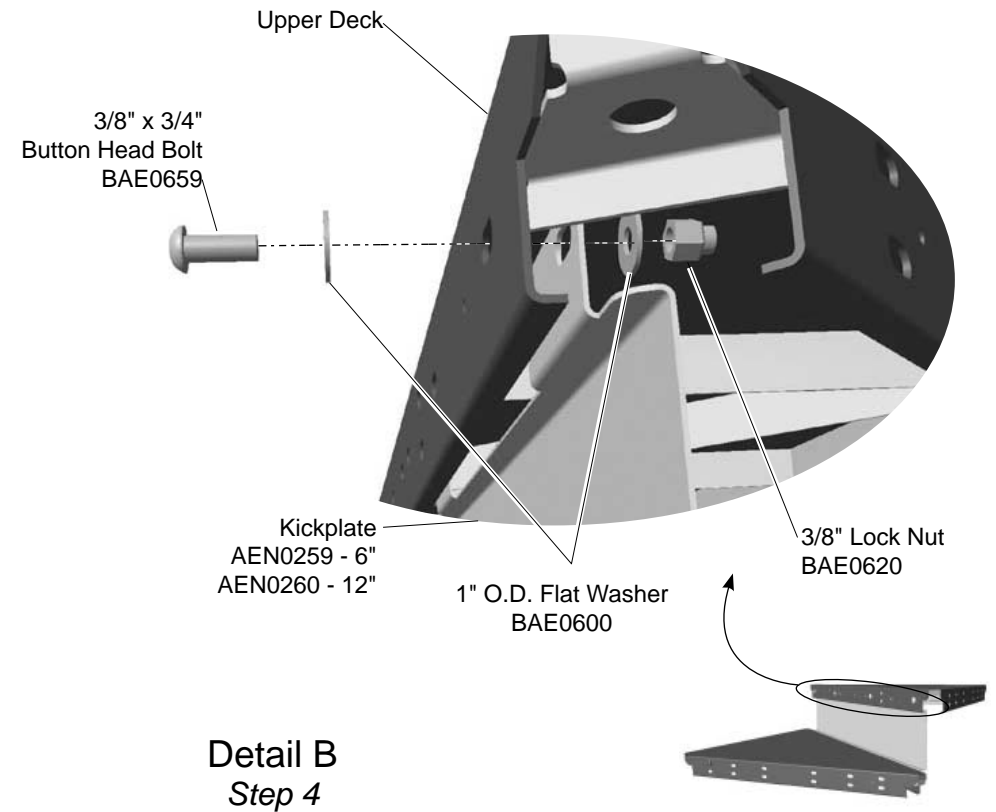
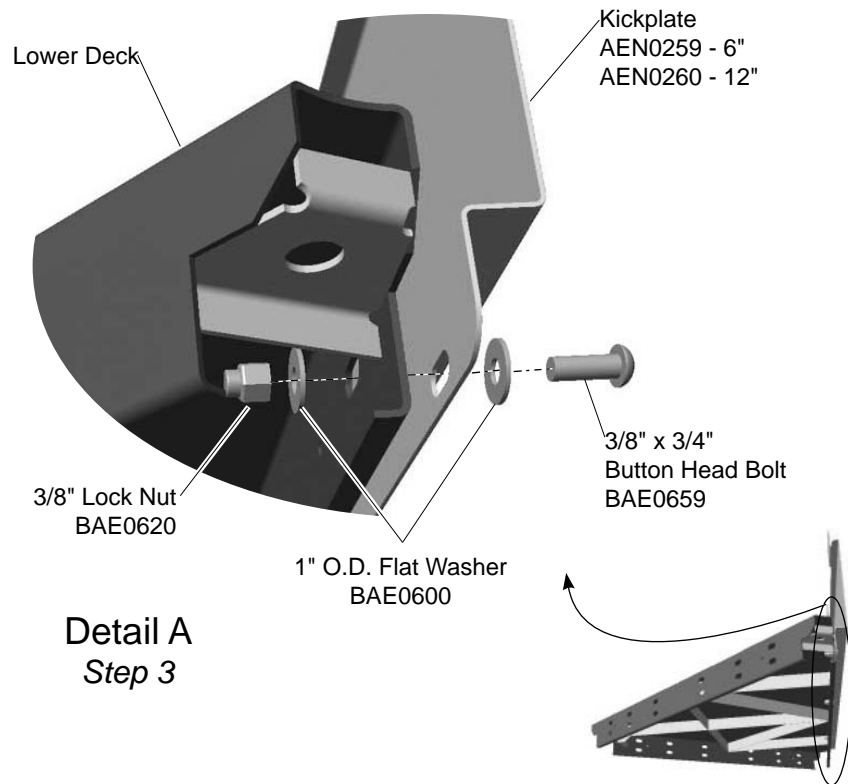
Installation Instructions



Elevation View
PM2537

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Attach the kickplate to the lower deck. **See Detail A.** Select the kickplate and appropriate hardware. There are (4) four connections. The kickplate must be attached to the *bottom* holes in the lower deck. Position the kickplate as shown in the **Elevation View** with the lip facing the lower deck.

___ **Step 4:** Attach kickplate to the upper deck. See **Detail B** and **Elevation View**. Select the appropriate hardware. There are (4) four connections. Align the holes in the tabs with the *bottom* holes in the upper deck.

Final Details.

___ **Step 5 :** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

PM2517 - 6 in (152 mm) 45 DEGREE TRI DECK KICK PLATE

PART NO.	DESCRIPTION	QTY.
AEN0259	KICKPLATE - 1.25" x 7.00" x 58.32"	1
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8

PM2537 - 12 in (305 mm) 45 DEGREE TRI DECK KICK PLATE

PART NO.	DESCRIPTION	QTY.
AEN0260	KICKPLATE - 1.25" x 13.00" x 58.32"	1
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8



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Assembly View (representative model)

Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S
36 in. (914 mm) Transfer Station and
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (In-Ground): 3 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.09 cubic yard (0,07 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

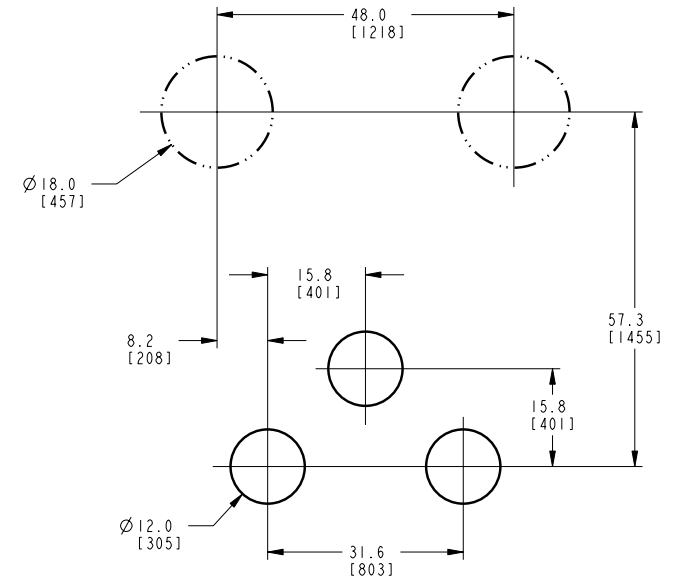
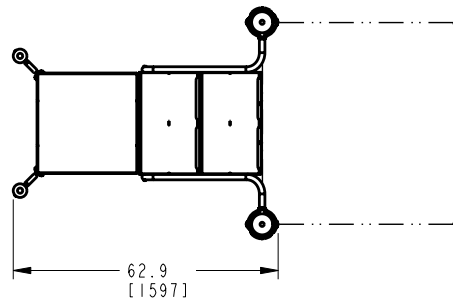
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

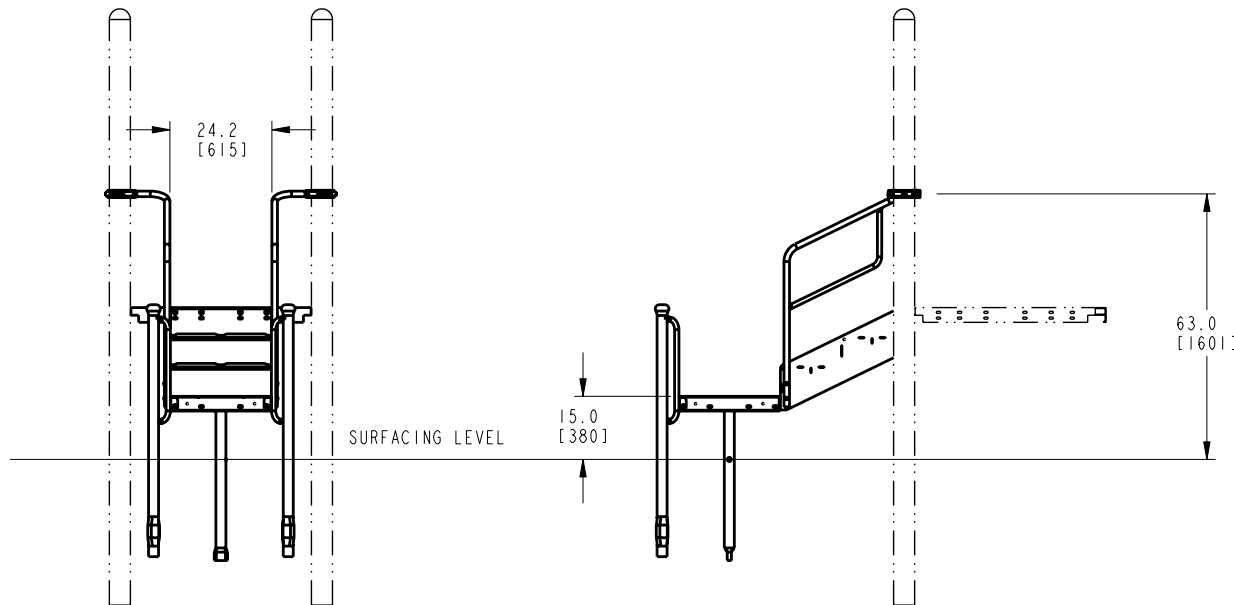
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

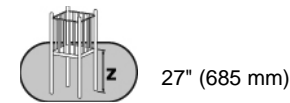
Top View



Footing Diagram



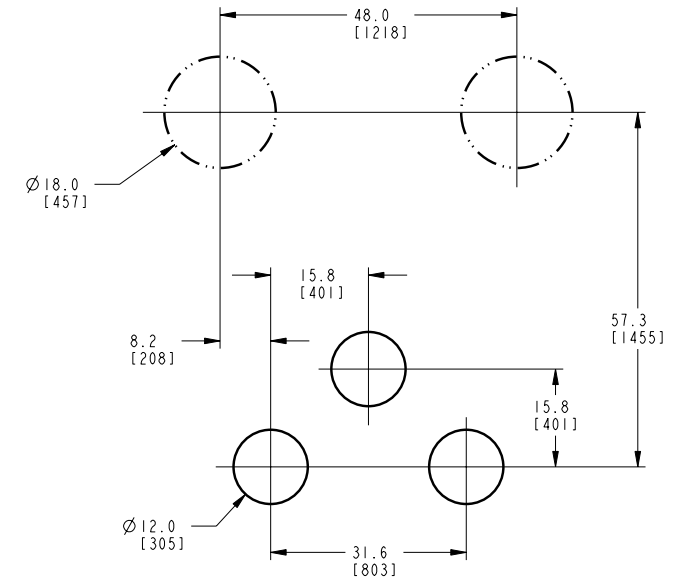
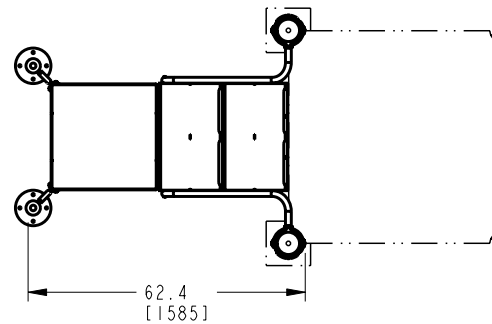
Elevation View
PM2006



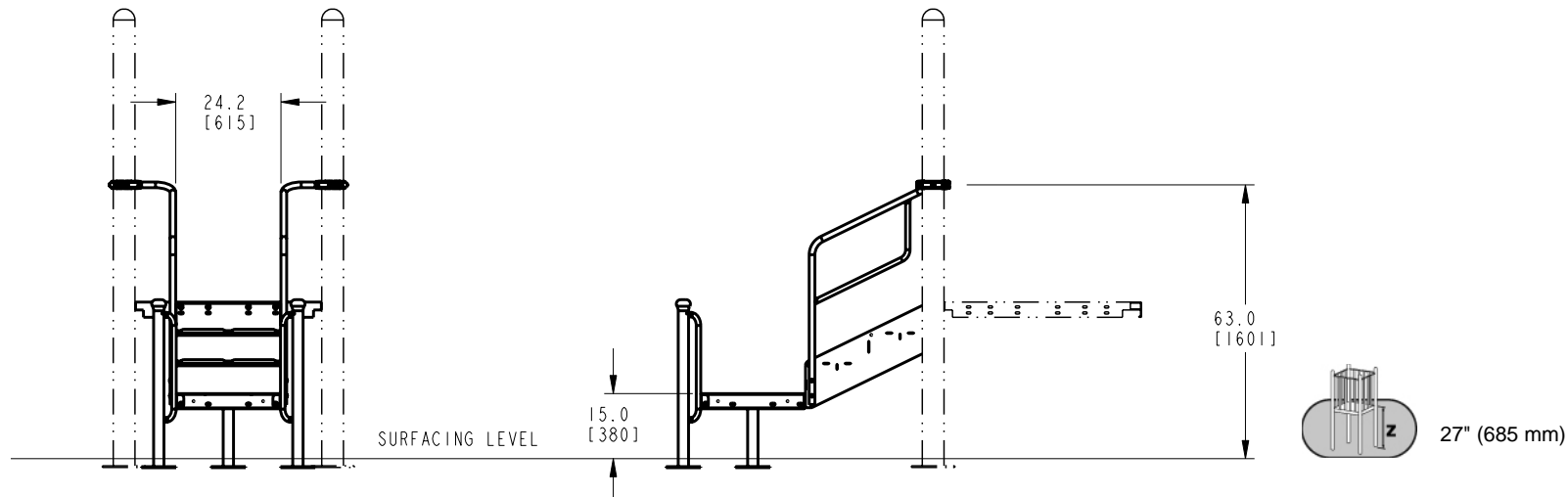
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram

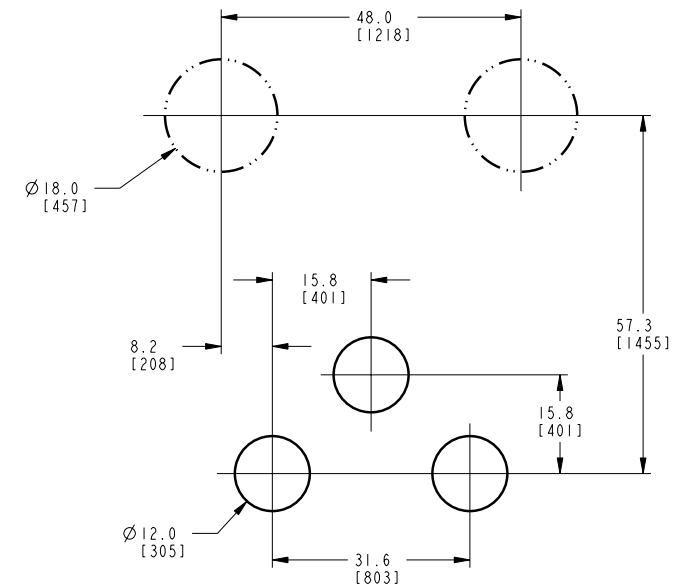
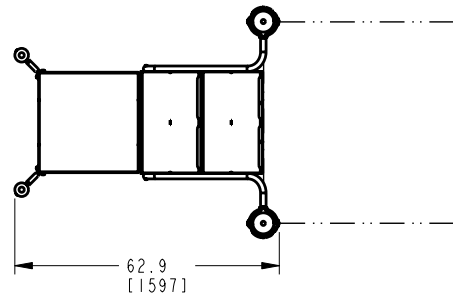


Elevation View
PM2006S

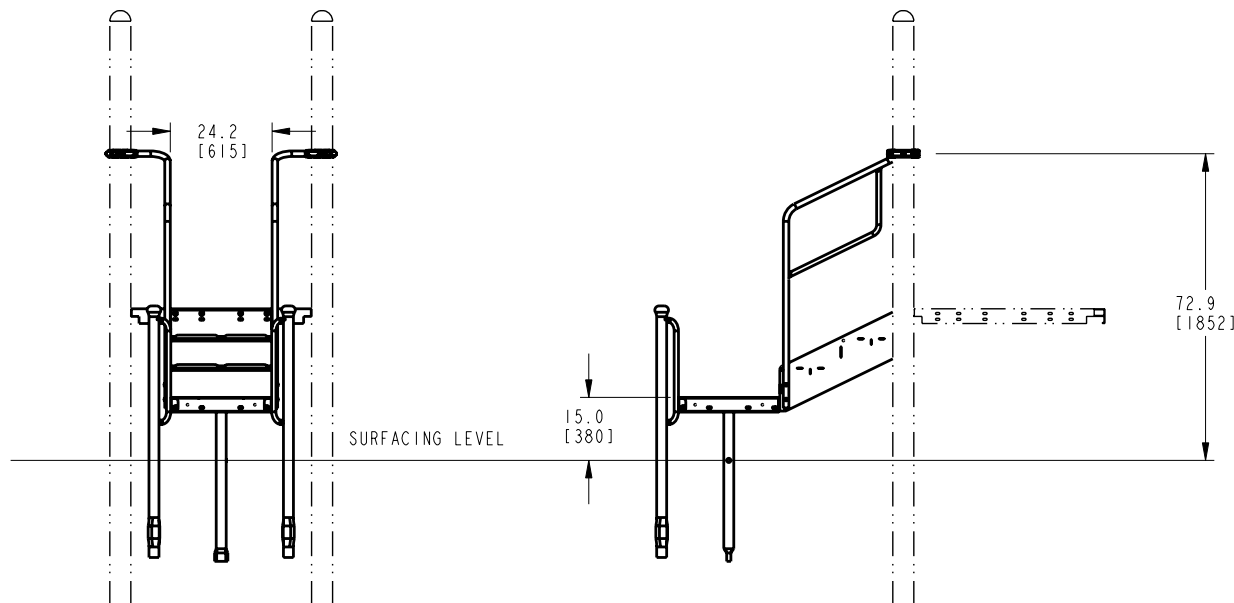
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

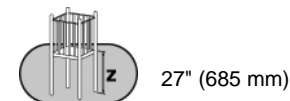
Top View



Footing Diagram



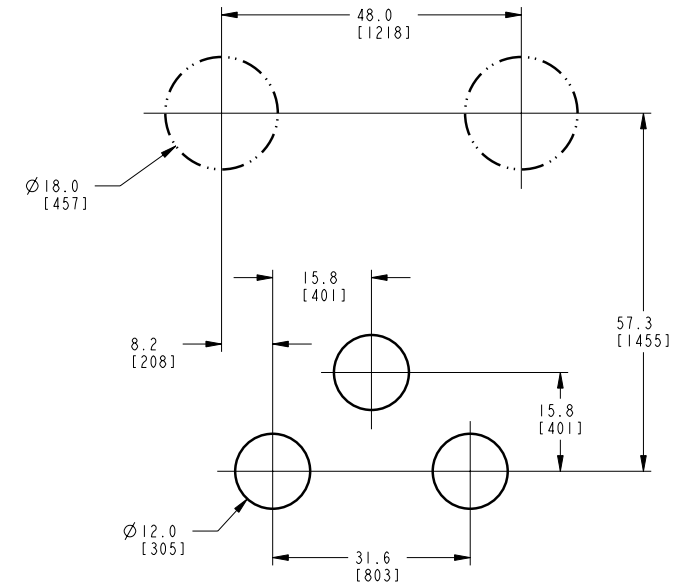
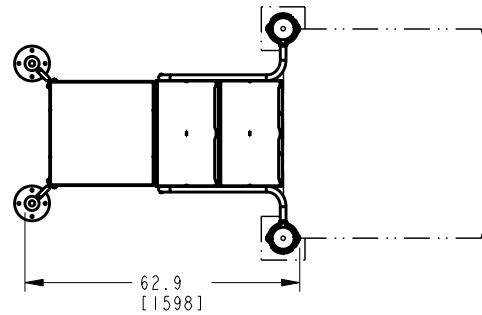
Elevation Views
PM2007



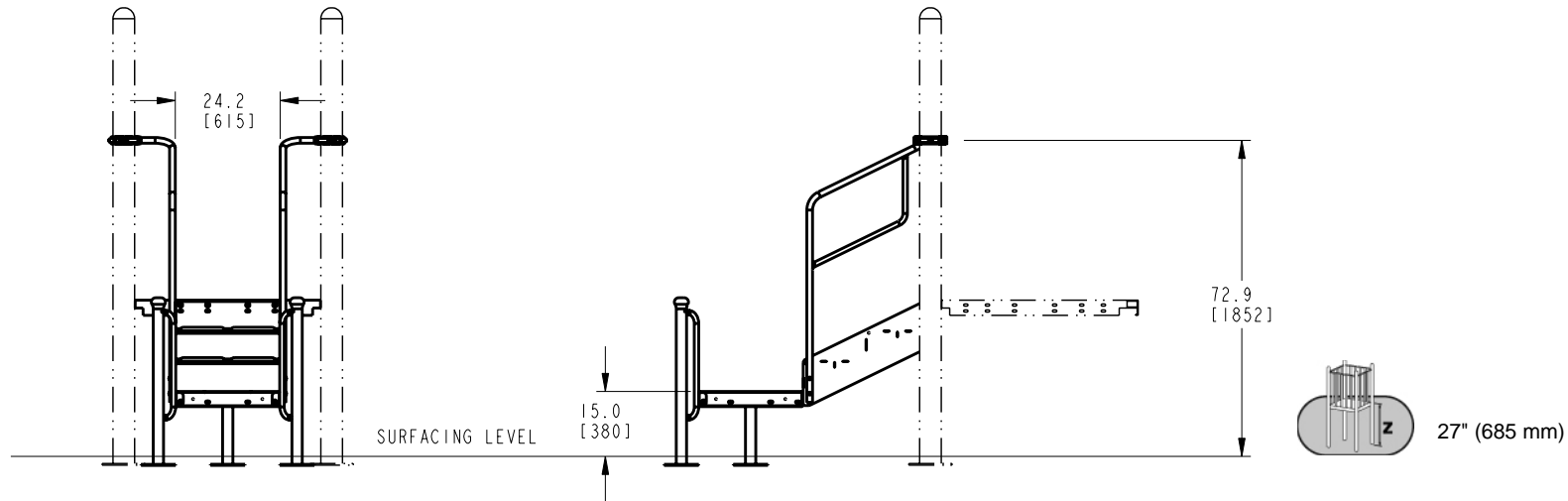
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



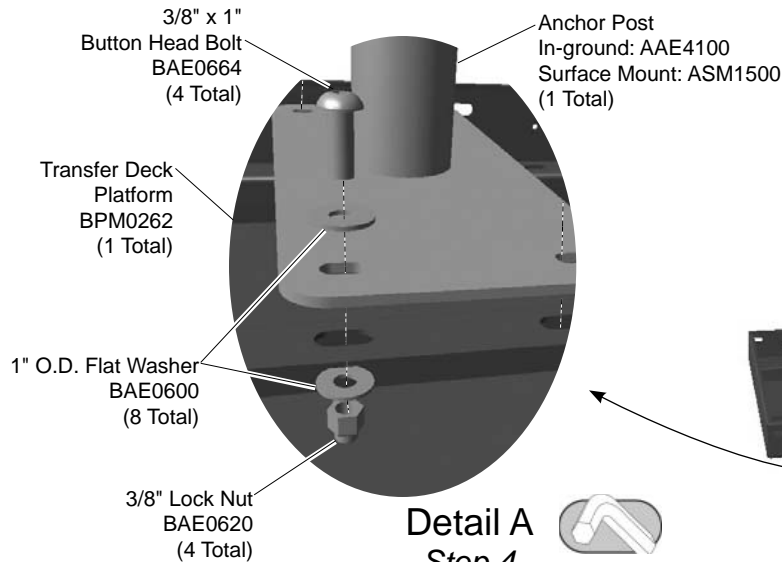
Footing Diagram



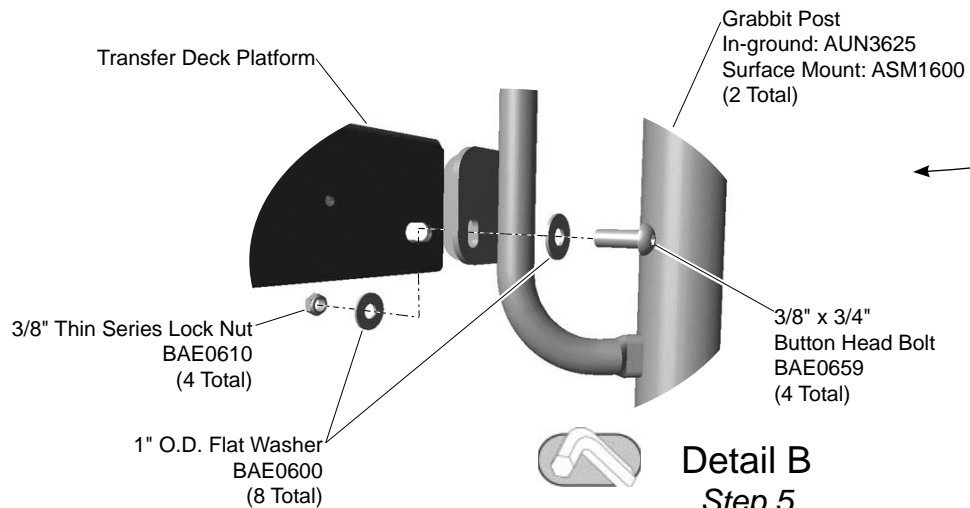
Elevation Views
PM2007S

Installation Instructions

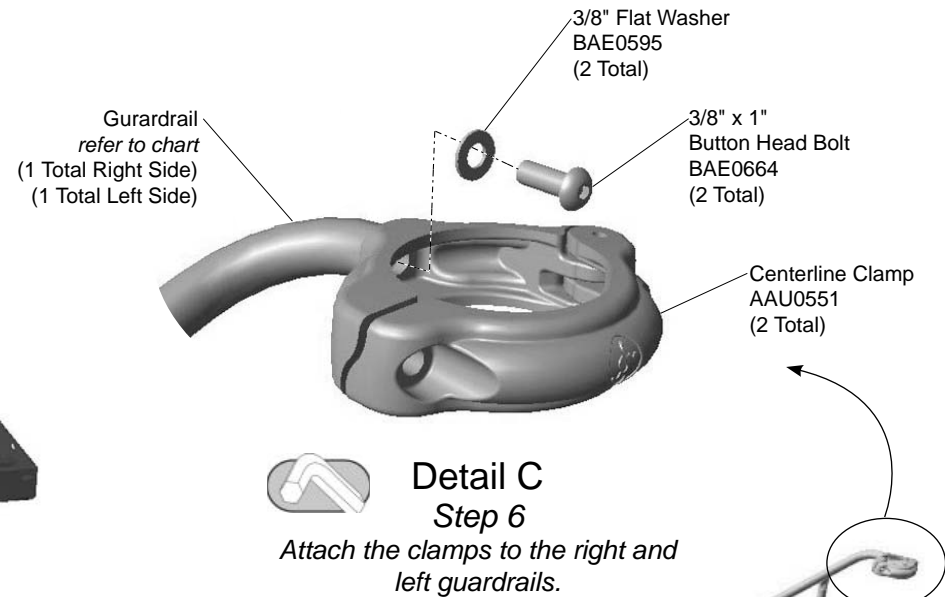
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4
Attach the anchor post to the transfer deck.

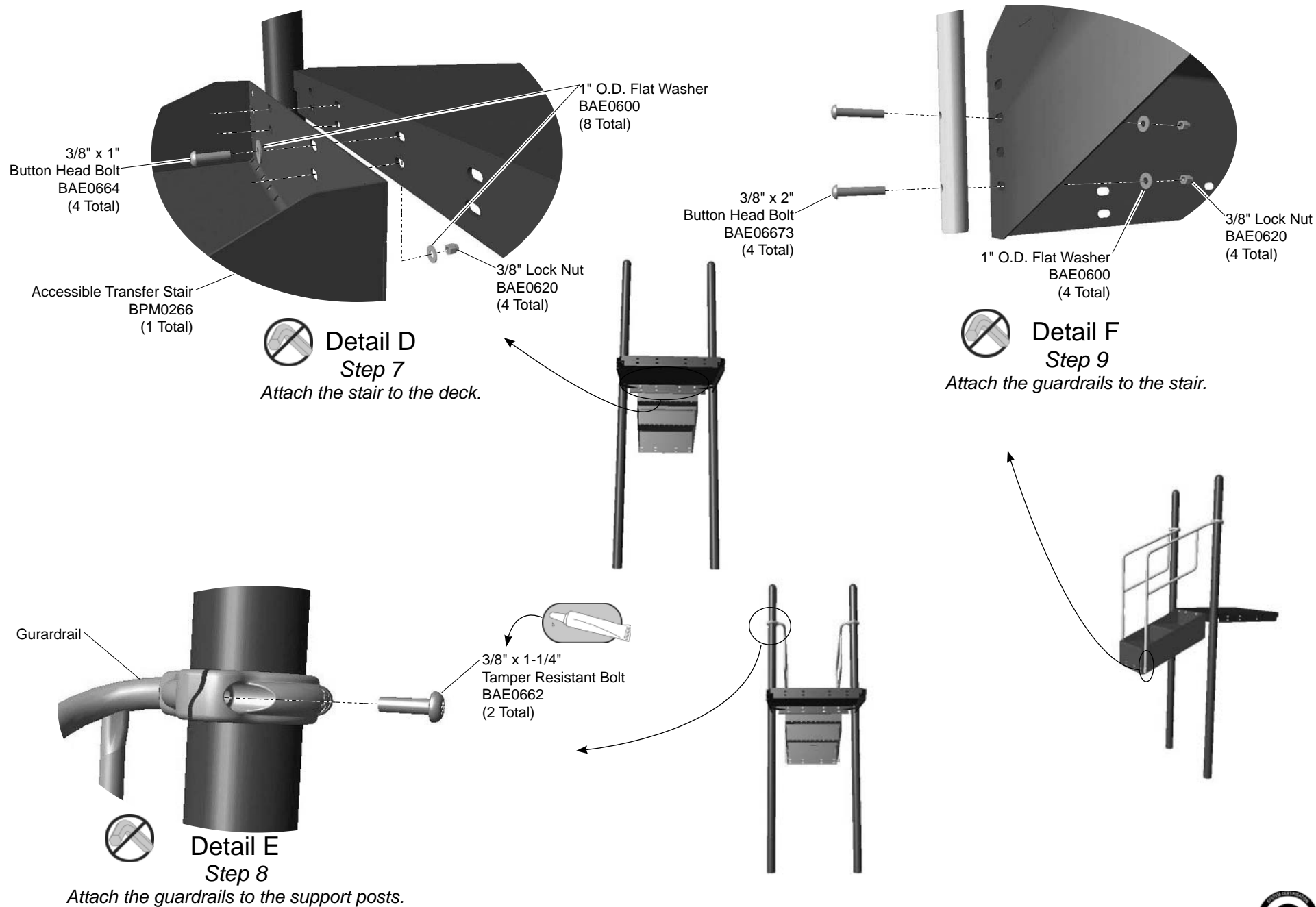


Detail B
Step 5
Attach the grabbit post to the platform.

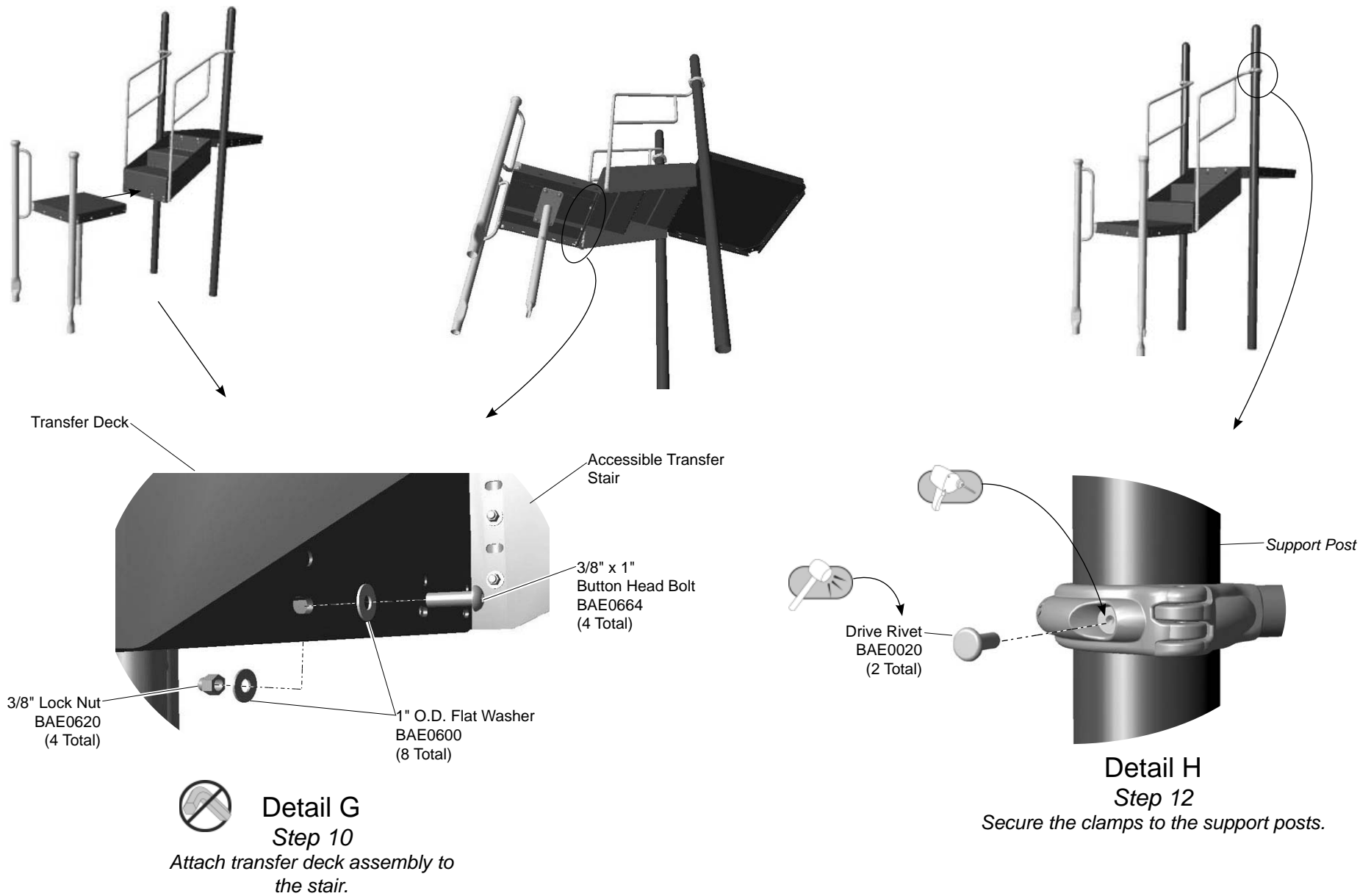


Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056

Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

Attach the anchor post to the transfer deck.

Step 4: Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbites to transfer deck.

Step 5: Attach grabbites to transfer deck. See **Detail B**. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.

Step 6: Attach the clamps to guardrails. See **Detail C**. Position the end of each guardrail top rail against the neck of each clamp and attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

Step 7: Attach the stairs to existing support deck. See **Detail D**. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.

Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.

The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.

Step 9: Attach the guardrails to the stair. See **Detail F**. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

Step 10: Attach transfer deck assembly to the stair. See **Detail G**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBL COATED TRANSFER w/SLOTS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBLE COATED TRANSFER w/SLOTS	1

ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSIBLE COATED TRANSFER w/SLOTS	1



Assembly View




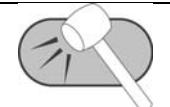



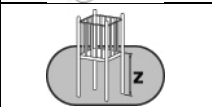
Installation Instructions

Universal Model UN2019

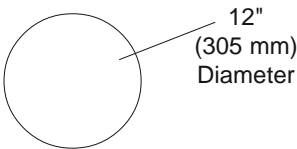
Platform Approach Step

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 40.4 lbs. (18,2 kg)
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

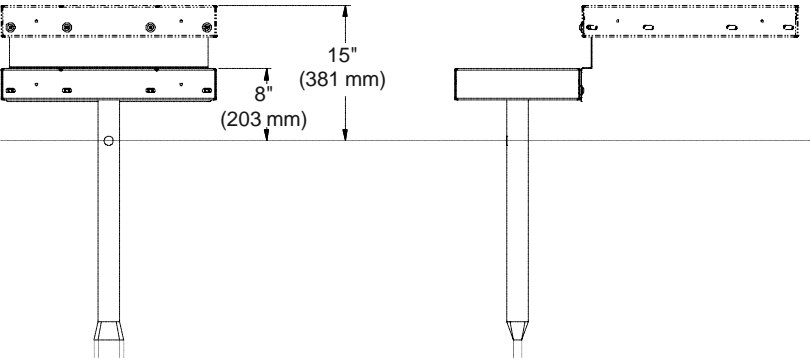
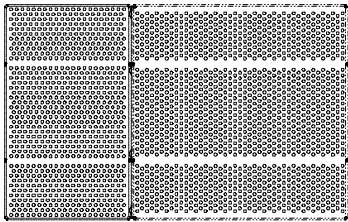
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

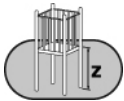


Footing Diagram

Top View



Elevation Views

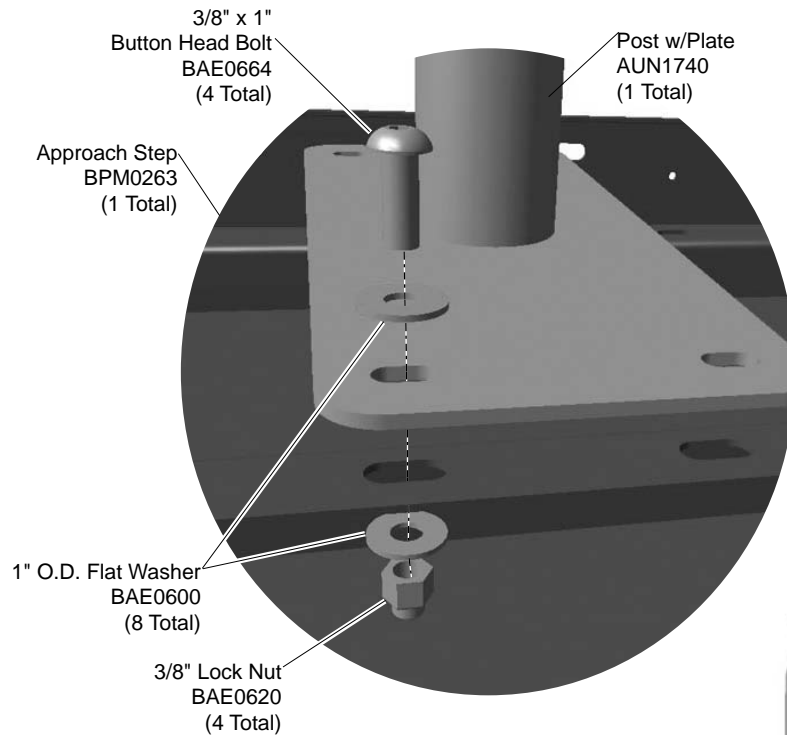


15" (381 mm)



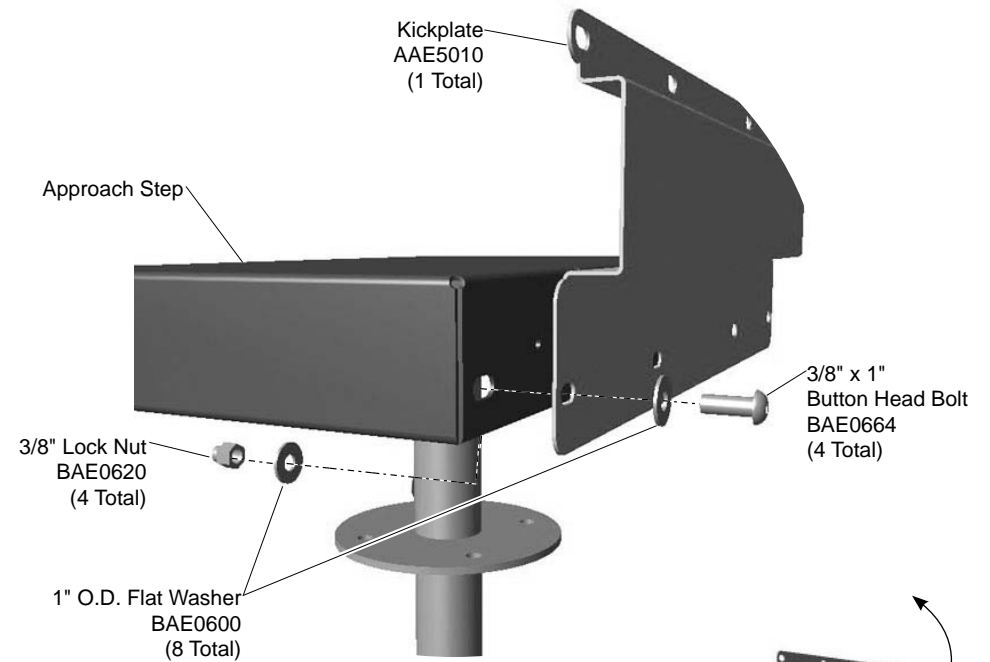
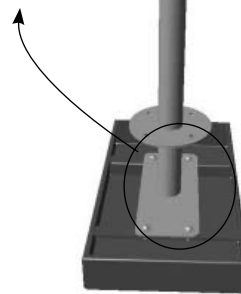
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



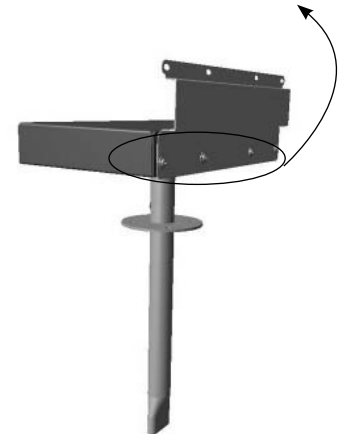
Detail A Step 4

Attach the anchor post to the approach step.

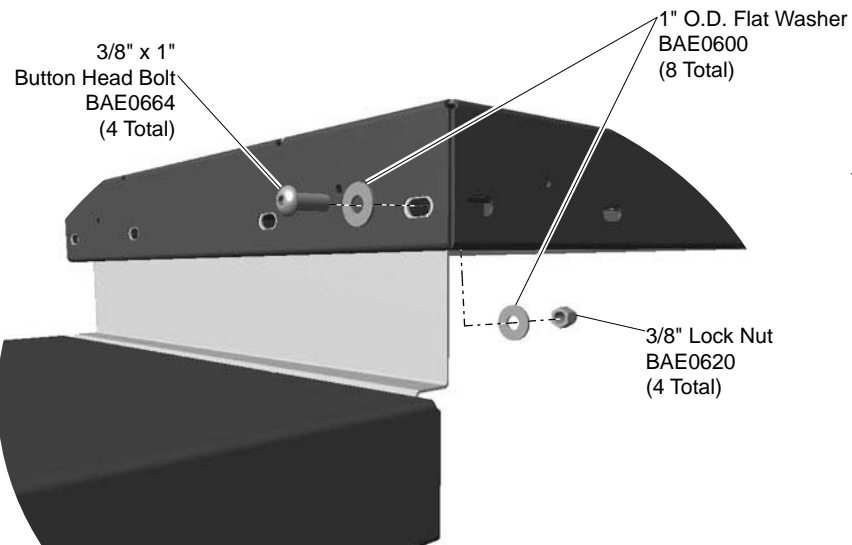
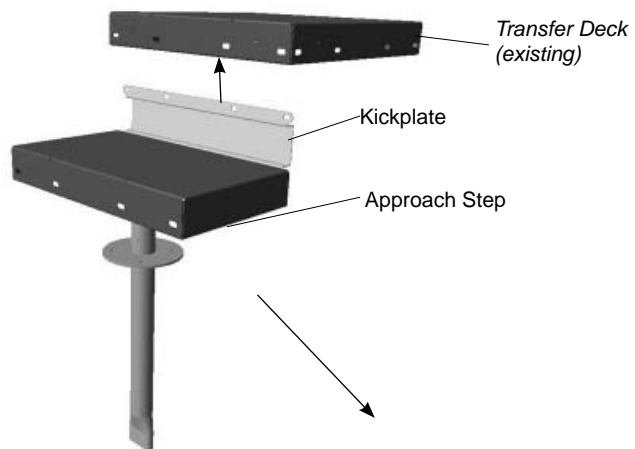


Detail B Step 5

Attach the kickplate to the
approach step.



Installation Instructions



Detail C Step 6

Attach the kickplate to the
transfer deck.



Step 7



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

Step 4: Attach the support leg to the approach step. See **Detail A**. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

Step 5: Attach the kickplate to the approach step. See **Detail B**. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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Assembly View

Installation Instructions
Playmakers® Model PM2805
Entry Support Bracket

Installation Preparation

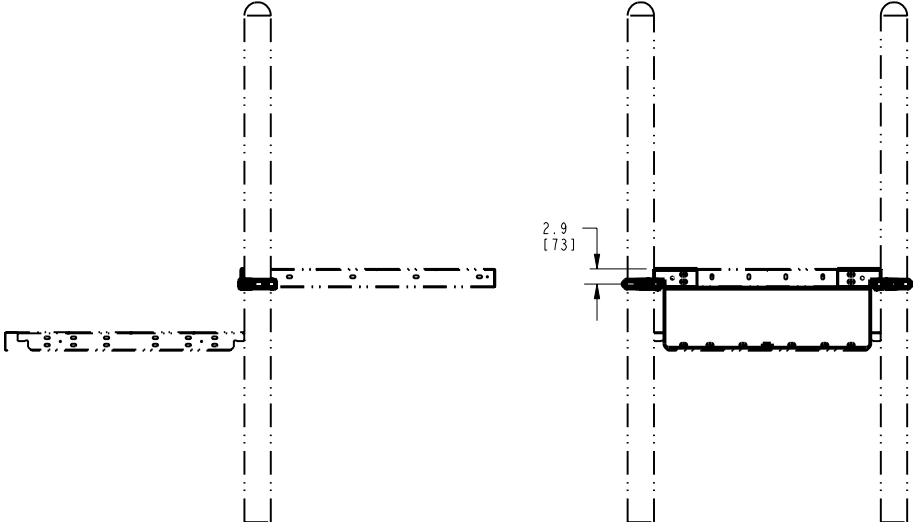
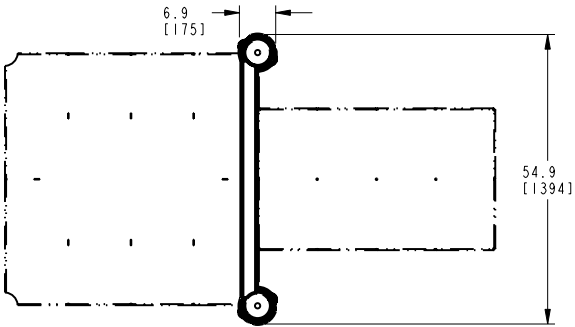
- Recommended Crew: One (1) adult
Installation Time: 0.5 man-hours
*Weight:..... 19.8 lbs. (9 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14
- *Weights are approximate for determining manpower.*

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

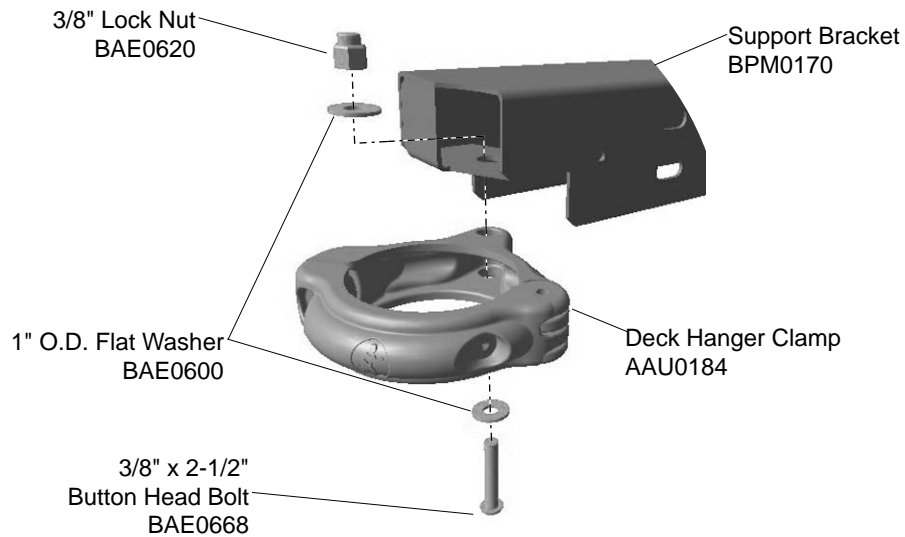
Top View



Elevation Views

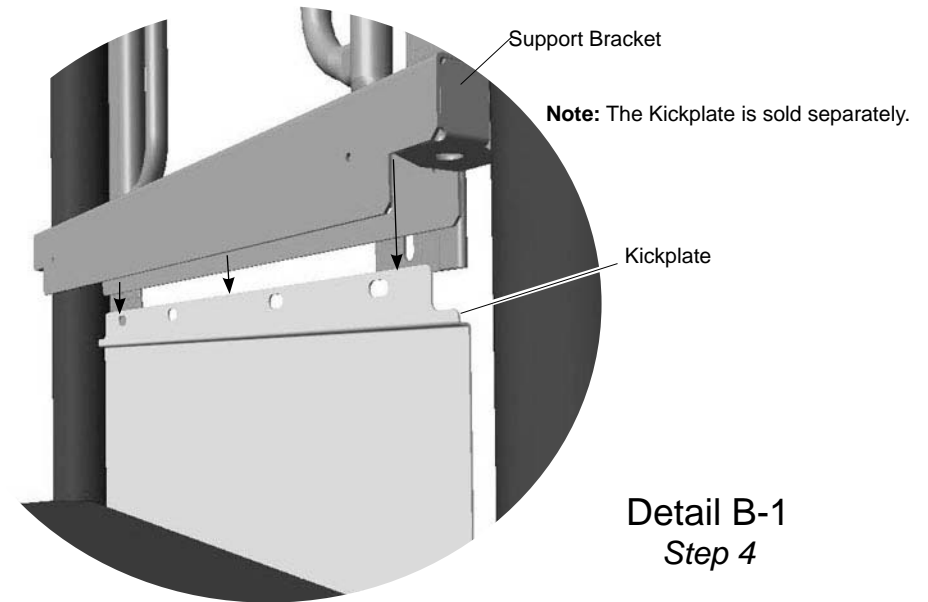
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

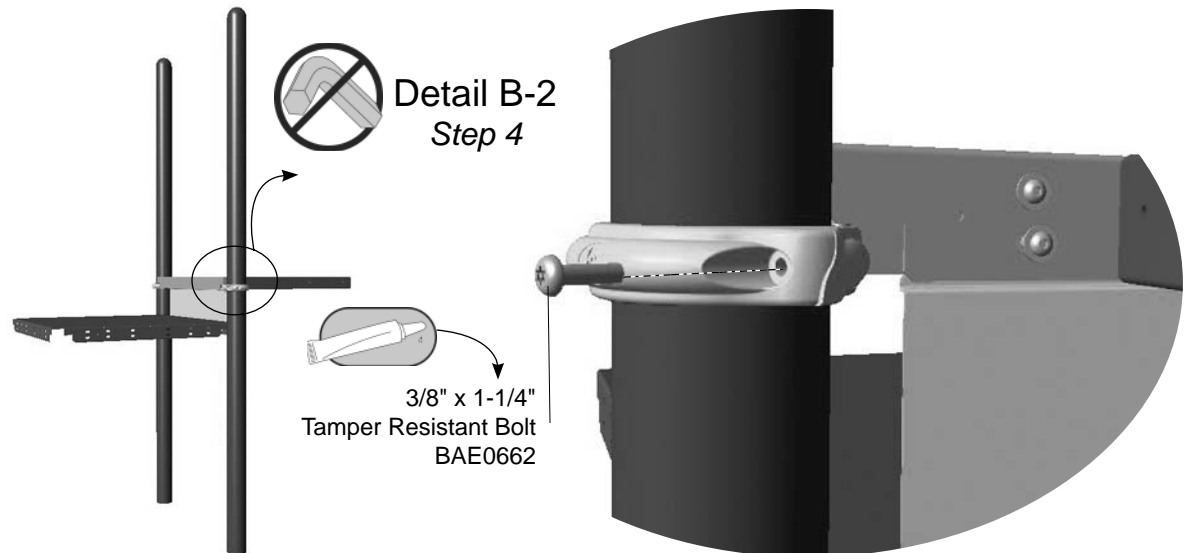


Detail A
Step 3

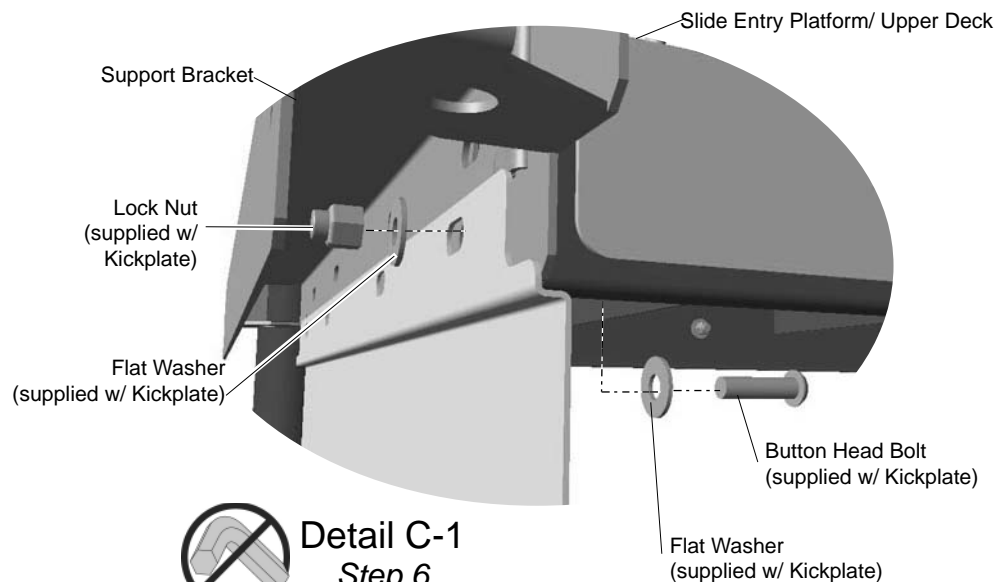
Detail A
Step 3



Important Note: The Kickplate fits inside of the support bracket with the bracket resting on the lip of the kickplate.

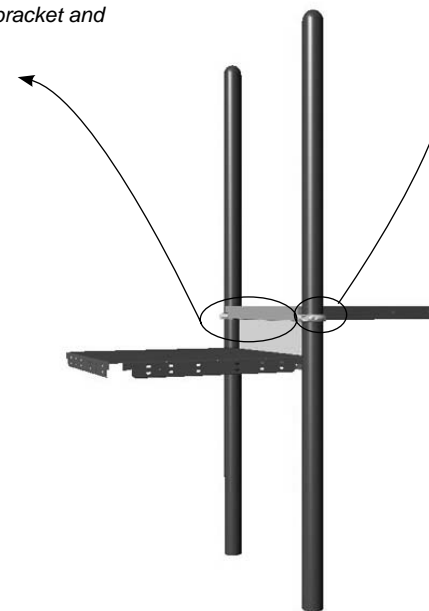
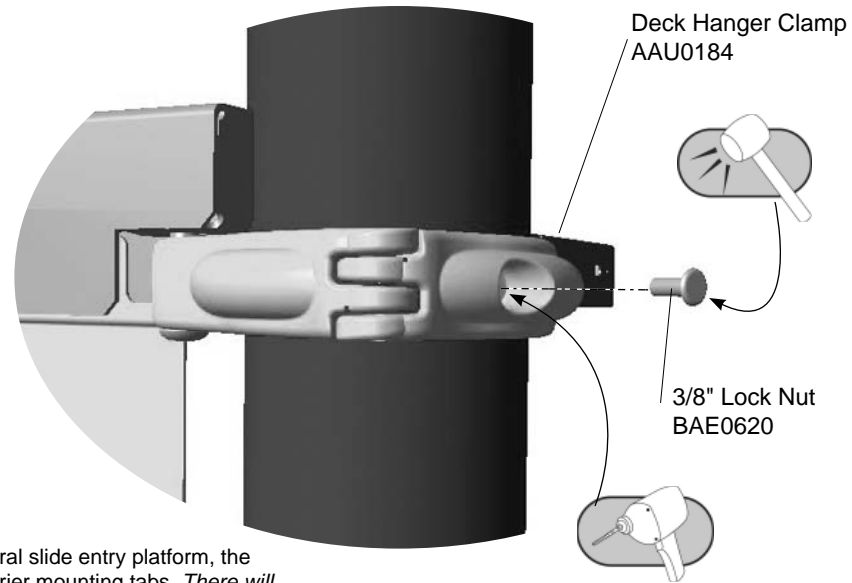
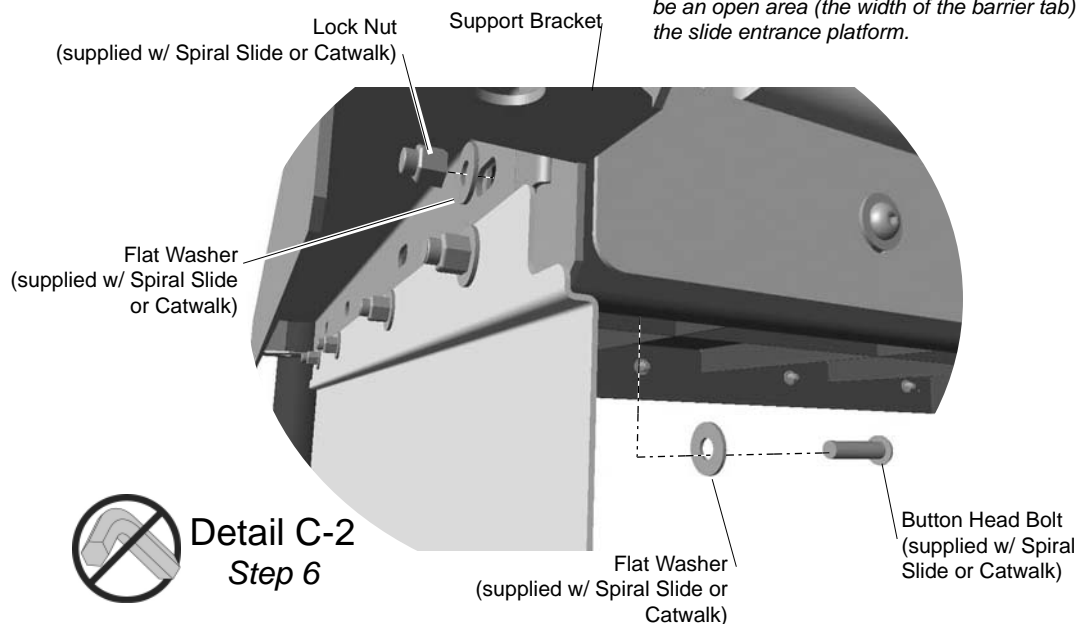


Installation Instructions



Note: The Kickplate is sold separately.

Important Note: If attaching the kickplate to a spiral slide entry platform, the support bracket will rest against the slide entry barrier mounting tabs. *There will be an open area (the width of the barrier tab) between the support bracket and the slide entrance platform.*



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the deck clamps to the Entry Support Bracket.

Step 3: Attach the deck clamps to the entry support bracket. See **Detail A**. Select the entry support bracket, the deck clamps, and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Orient the bracket as shown in **Detail A**. Attach the deck clamps as shown.

Attach the bracket assembly to the posts.

Step 4: Attach the bracket to the posts. See **Detail B-2** and **Side View**. Select the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Position the bracket between the support posts. Close the clamps around the posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Adjust the bracket so the surface is level. If applicable, the bracket should be aligned with the adjoining kickplate and/or the spiral slide/catwalk platform (refer to **Detail B-1**).

Note: The Kickplate is sold separately.

Spiral Slide/Catwalk Attachment:

Step 5: Assemble the spiral slide or catwalk selected for attachment to the entry support bracket in accordance with the specific installation instructions.

Step 6: Connect the spiral slide platform or catwalk to the entry support bracket, using the appropriate hardware and instructions. See **Details C-1 and C-2** and **Side Views**. The upper edge of the kickplate will fit inside, and against, the narrower side of the support bracket (with the post cutouts).

Important Note: If attaching the kickplate to a spiral slide entry platform, the support bracket will rest against the slide entry barrier mounting tabs. *There will be an open area (the width of the barrier tab) between the support bracket and the slide entrance platform.*

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM2805 - ENTRY SUPPORT BRACKET

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BPM0170	BRACKET - 45.00" x 3.00" x 3.44" STEP UP	1



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Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

Installation Instructions

Playmakers®

Models PM2658, PM2696, PM3126-PM3128
24"-72" (610-1829 mm) Glide Slides

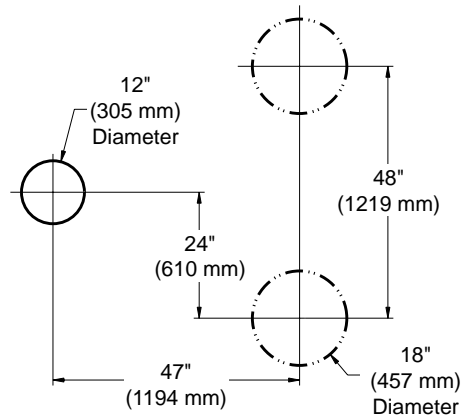
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24"-60": ASTM/CSA: 2-12, EN: 2-14
 72": ASTM/CSA: 5-12, EN: 6-14

ICON KEY

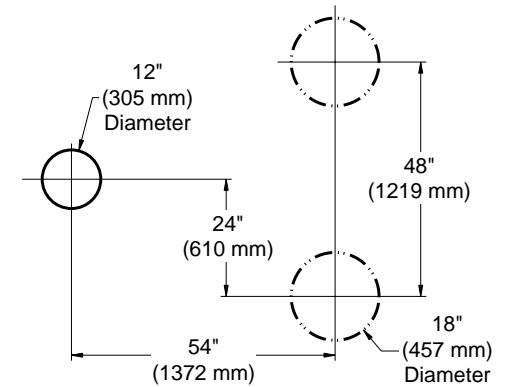
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

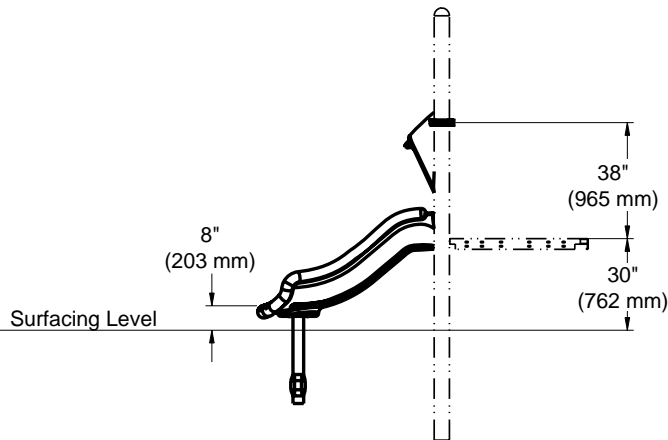
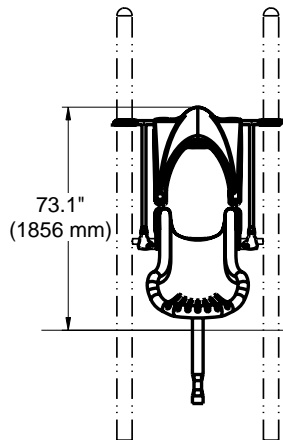


Footing Diagram

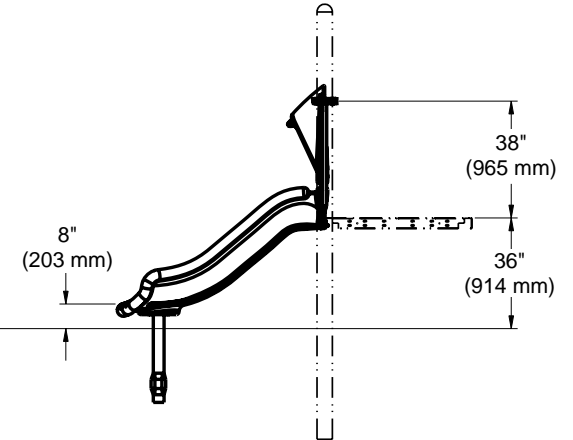
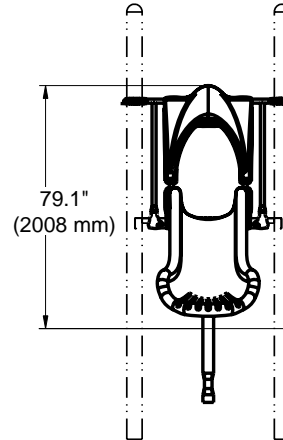
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram

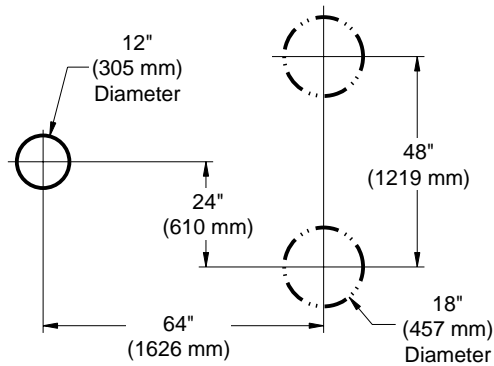


Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)

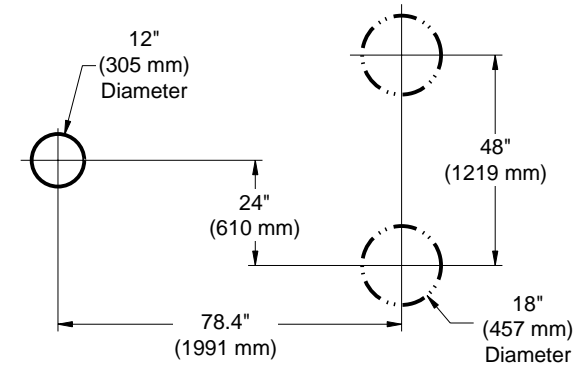


Elevation View PM3127 - 36" Glide Slide

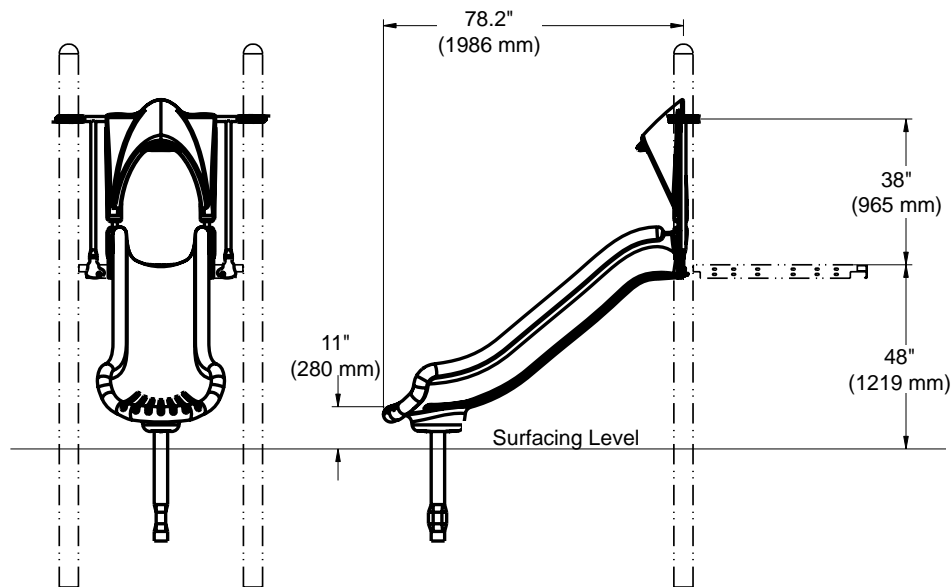
Installation Instructions



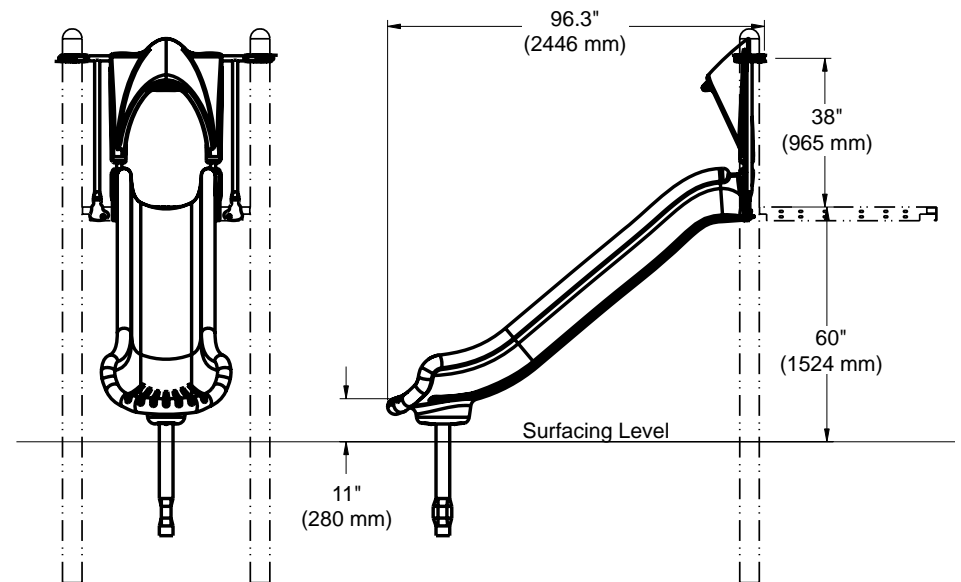
Footing Diagram



Footing Diagram

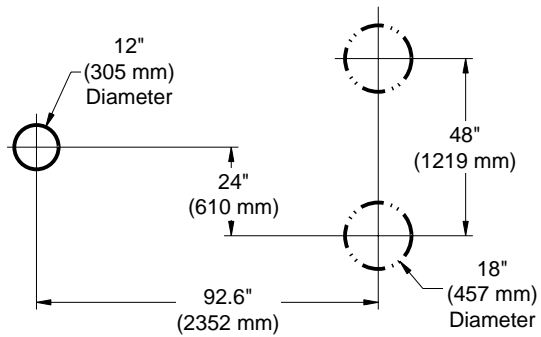


Elevation View PM3126 - 48" Glide Slide

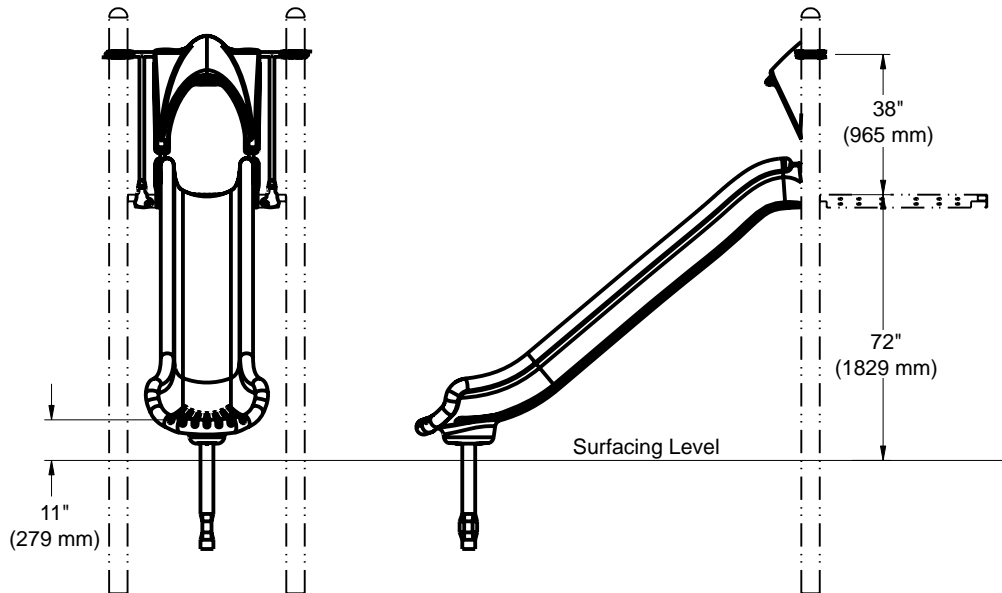


Elevation View PM2658 - 60" Glide Slide

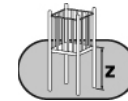
Installation Instructions



Footings Diagram



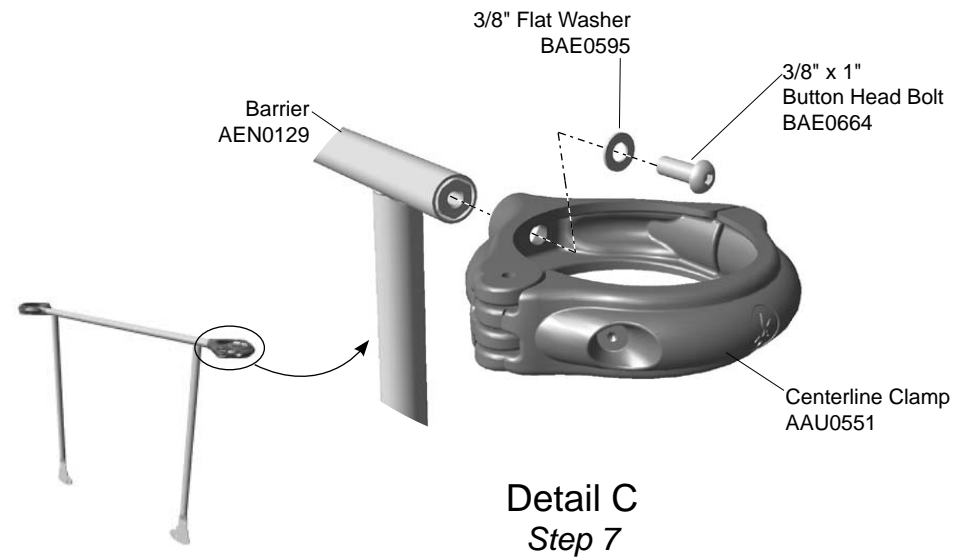
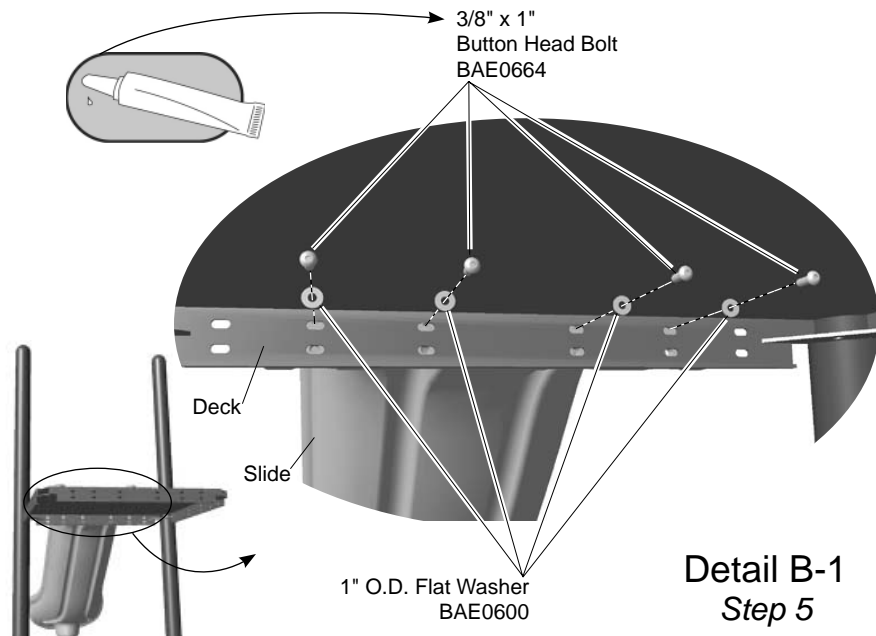
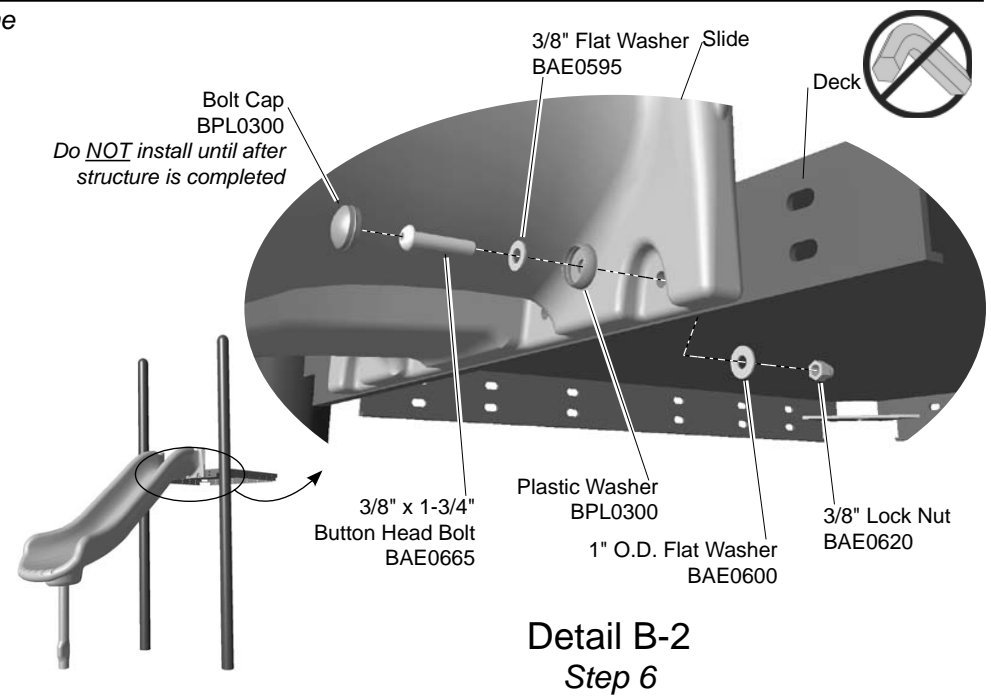
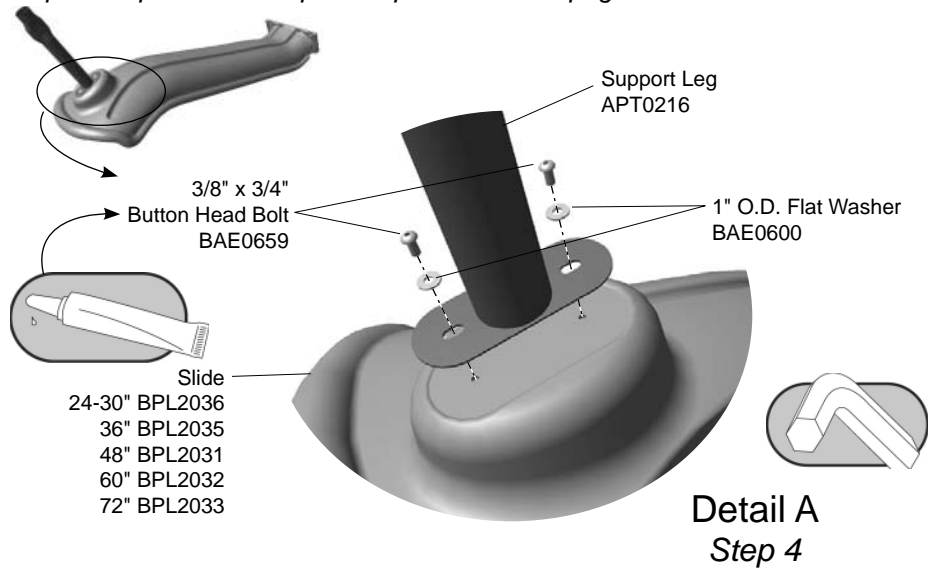
Elevation View PM2696 - 72" Glide Slide



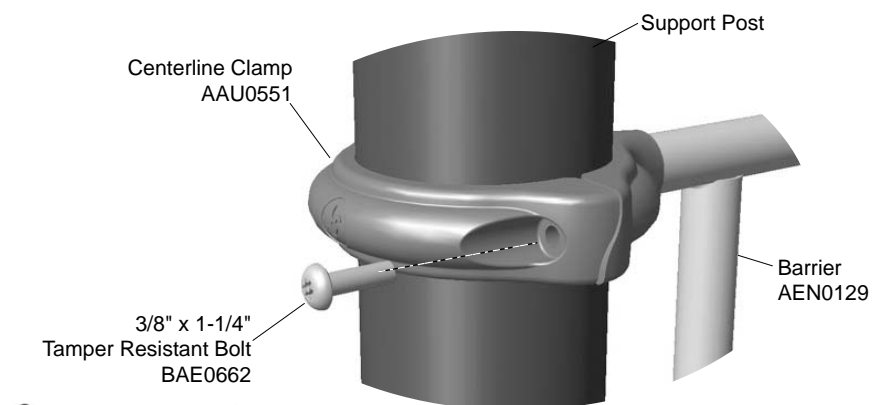
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

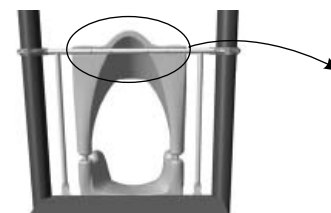
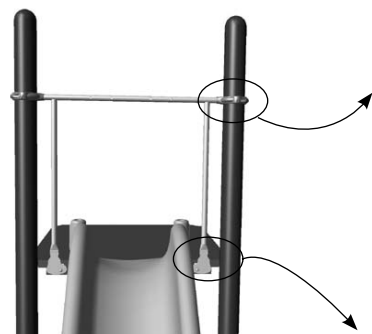
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



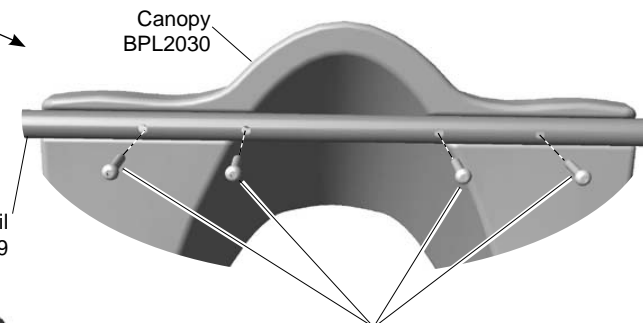
Installation Instructions



Detail D-1
Step 8

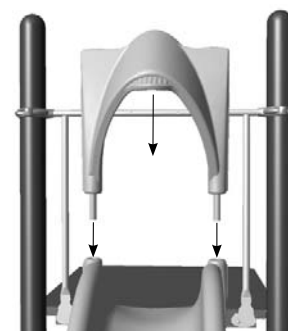


Barrier Top Rail
AEN1029

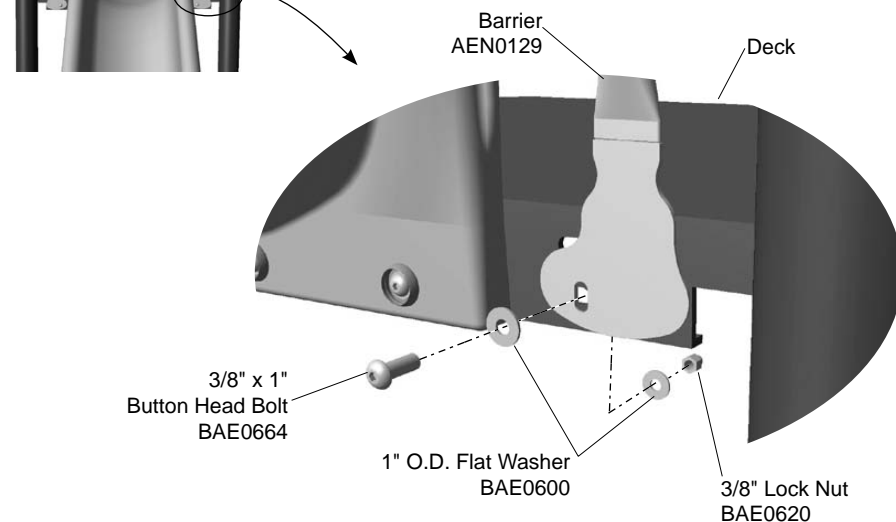


3/8" x 1-3/4"
Button Head Bolt
BAE0665

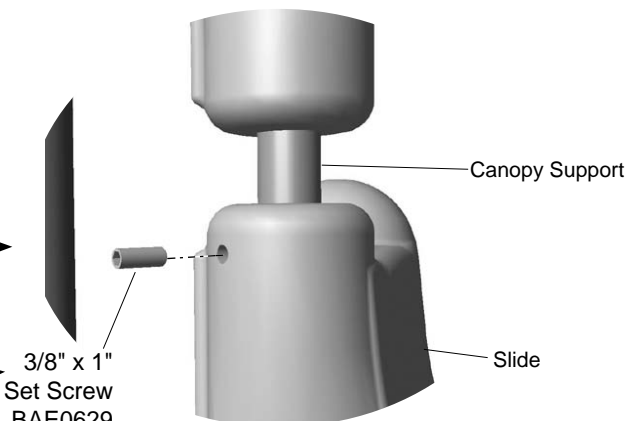
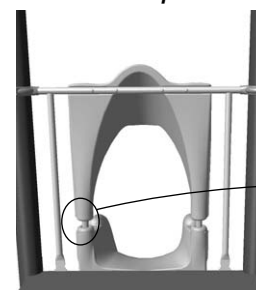
Detail E-2
Step 10



Detail E-1
Step 10



Detail D-2
Step 9

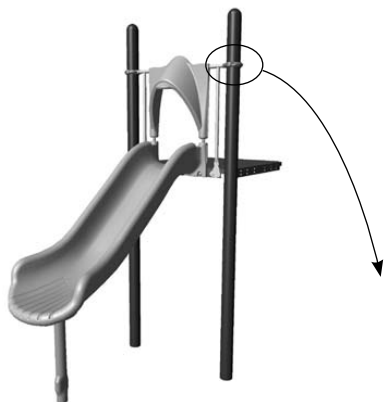


Detail F
Step 11

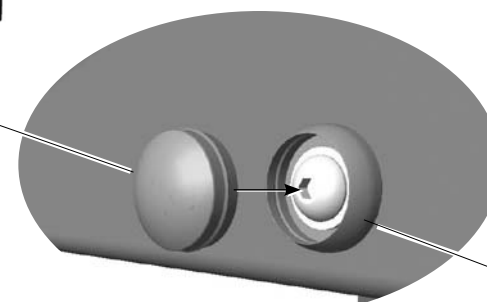
Installation Instructions



Step 12

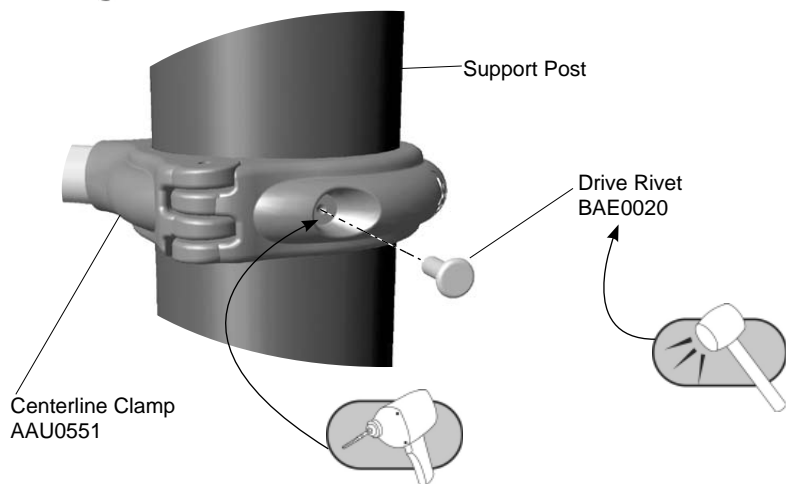


Bolt Cap
BPL0300



Plastic Washer
BPL0300

Detail H
Step 14
(refer to Detail B-2 also)



Centerline Clamp
AAU0551

Drive Rivet
BAE0020

Detail G
Step 13

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

__**Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

__**Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

__**Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM3236 and PM3236S

ZigZag Slide 60 in. (1524 mm) Deck

In-Ground and Surface Mount

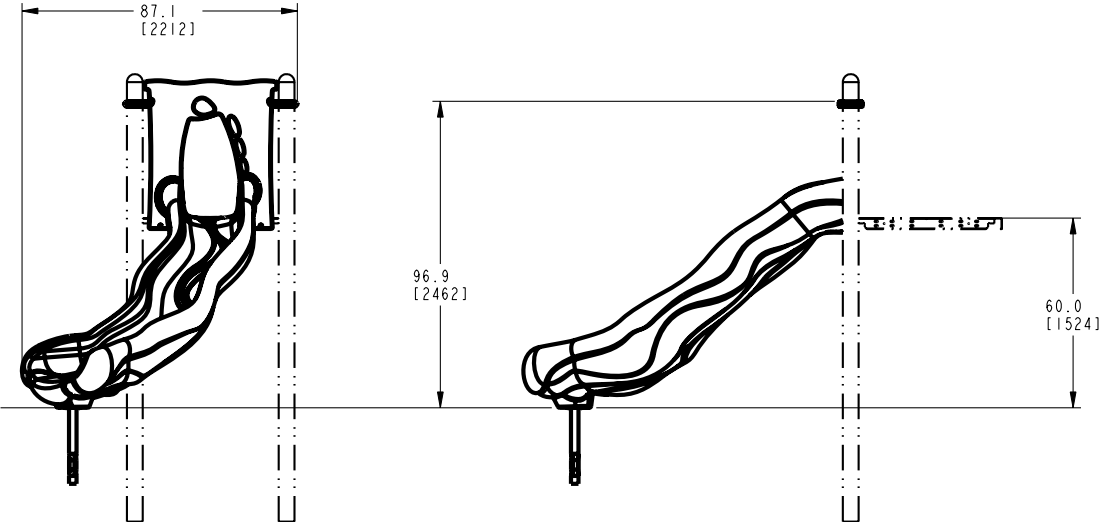
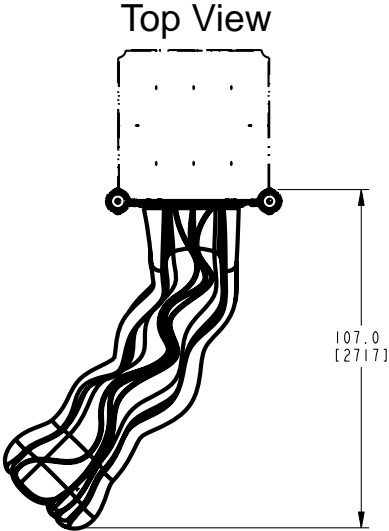
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours (in-ground)
 1 man-hour (surface mount)
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

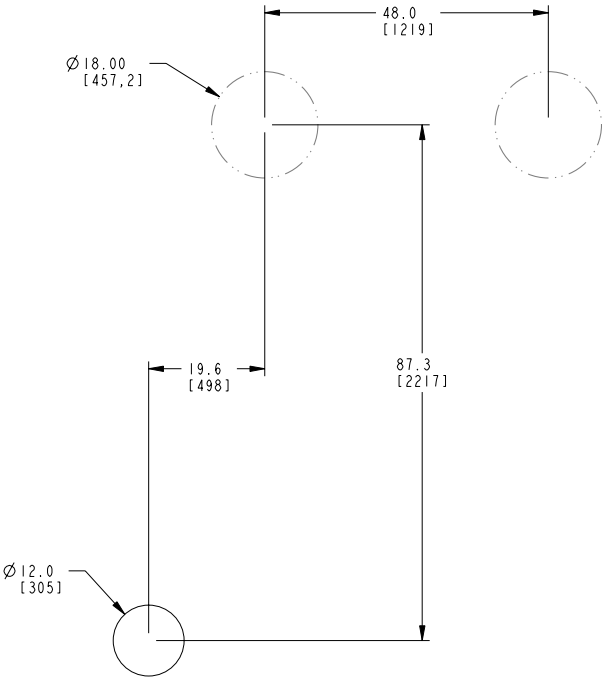
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

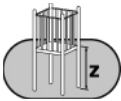
Installation Instructions



Elevation Views



Footings Diagram



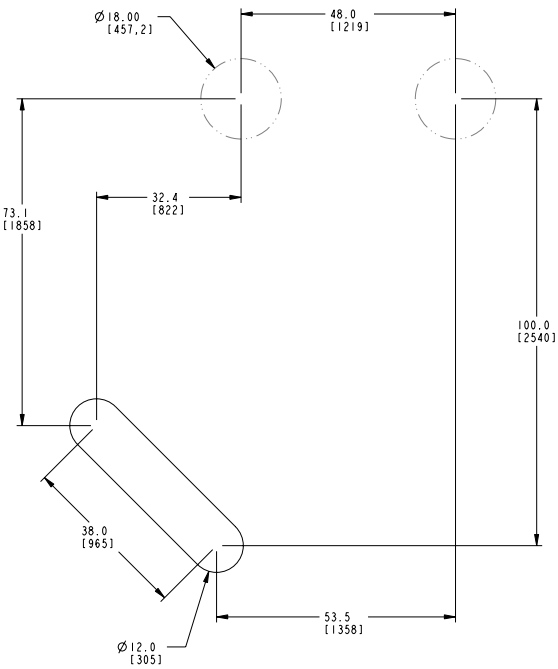
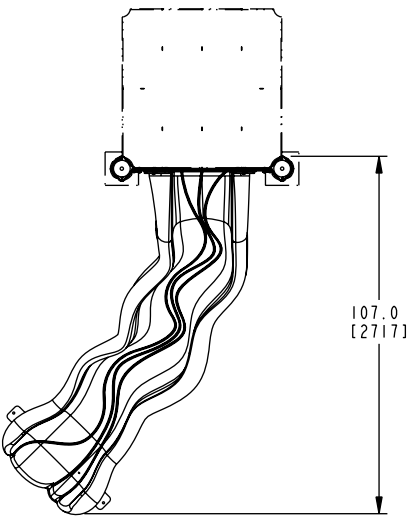
EN: 1525 mm

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

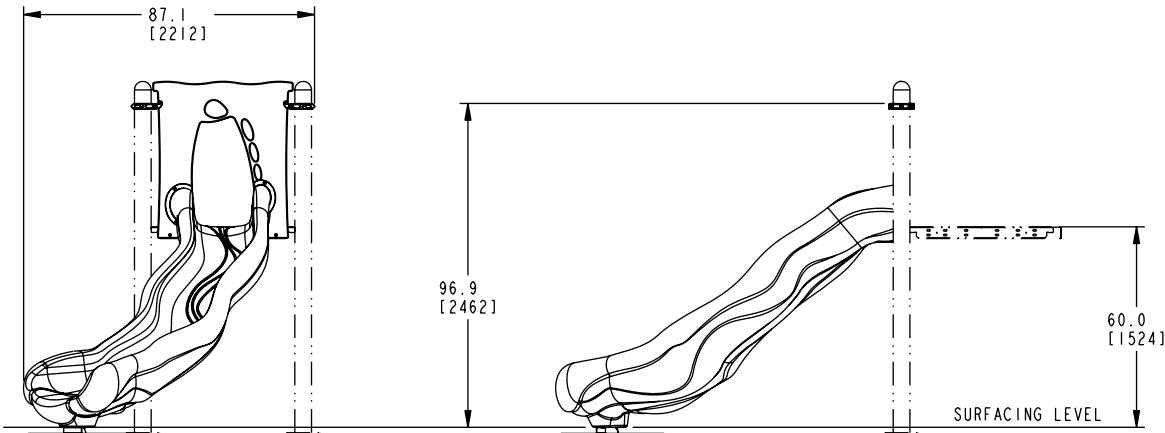


Installation Instructions

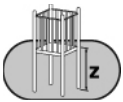
Top View



Footing Diagram



Elevation Views



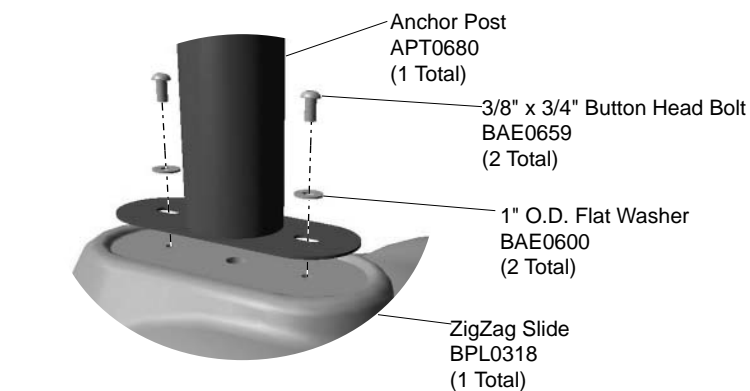
EN: 1525 mm

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

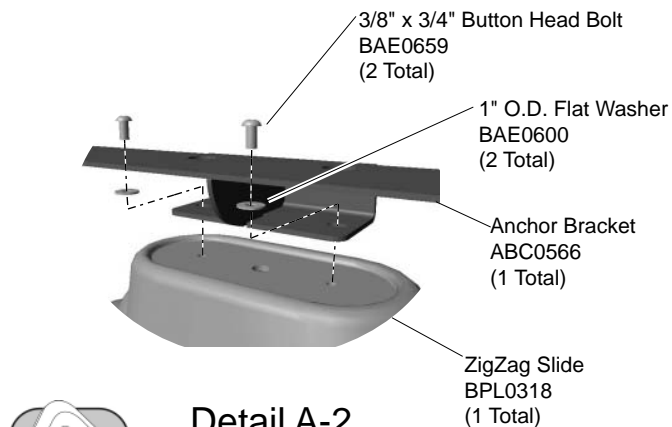


Installation Instructions

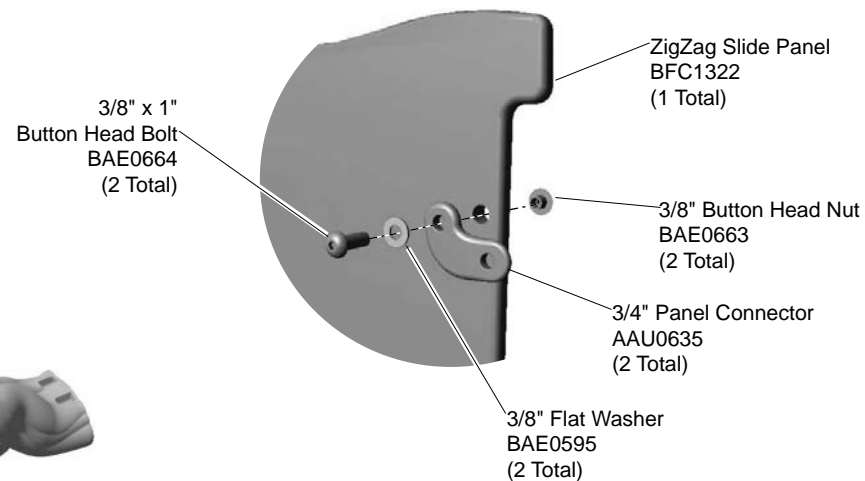
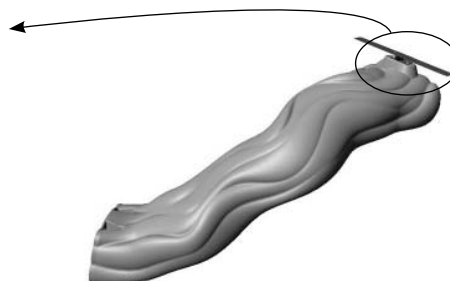
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



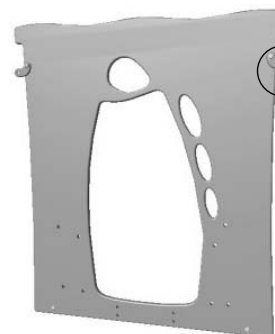
Detail A-1
Step 4
In-ground model



Detail A-2
Step 4
Surface mount model



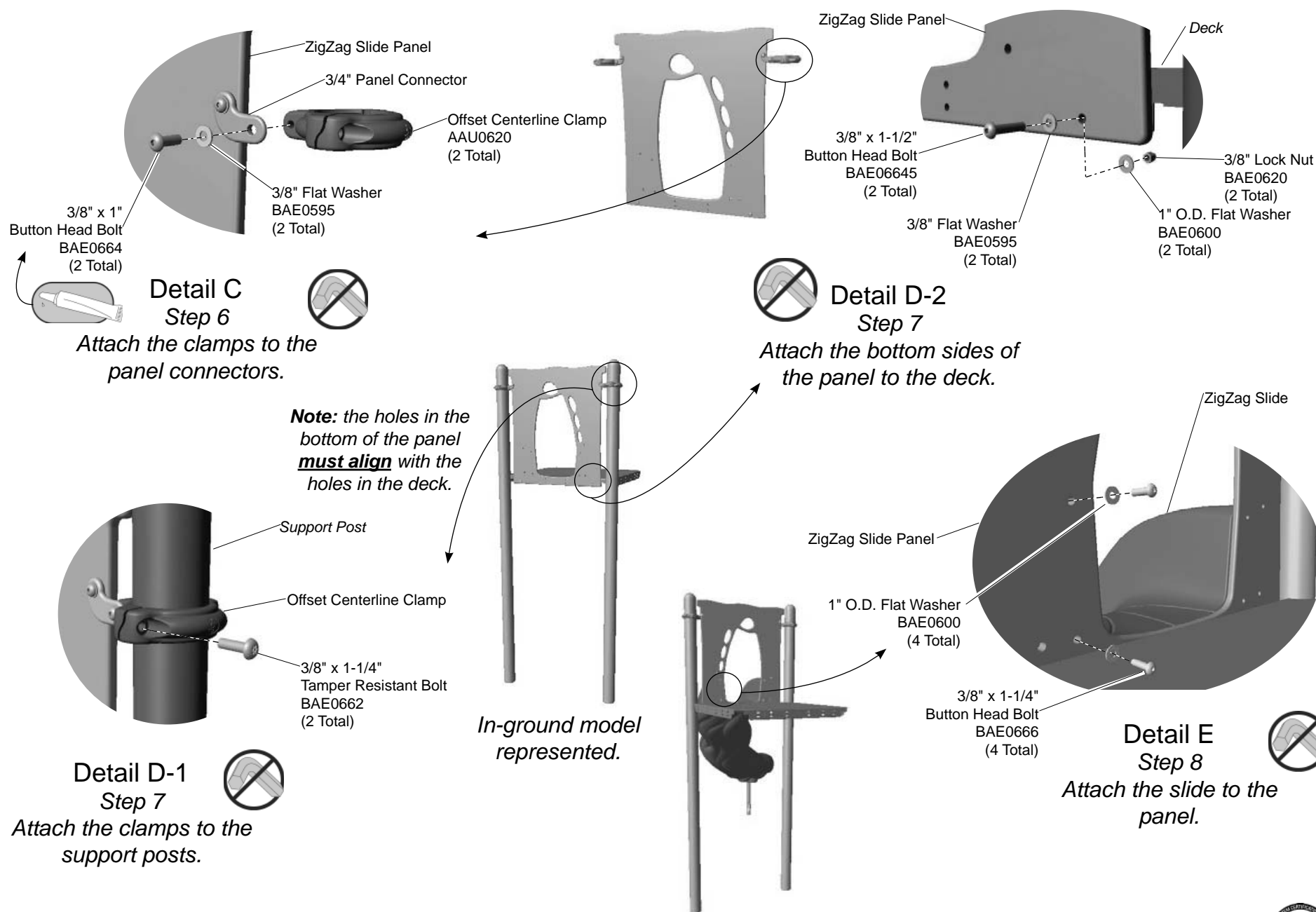
Detail B-1
Step 5
Attach the panel connectors to the panel.



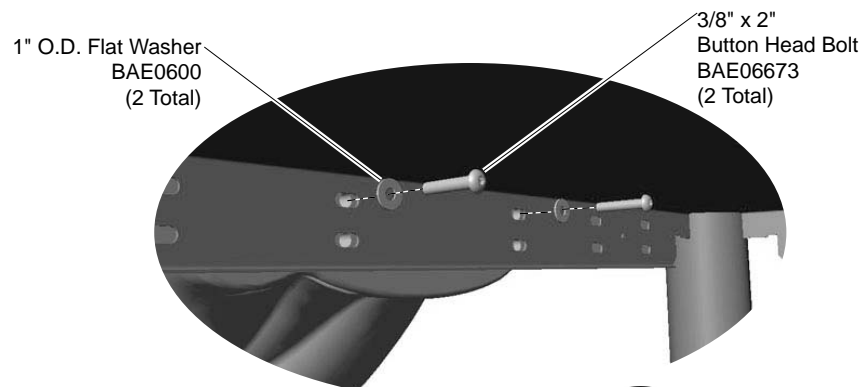
Note: In case of clamp interference the panel connectors can be rotated and attached to the panel in this manner.

Detail B-2

Installation Instructions

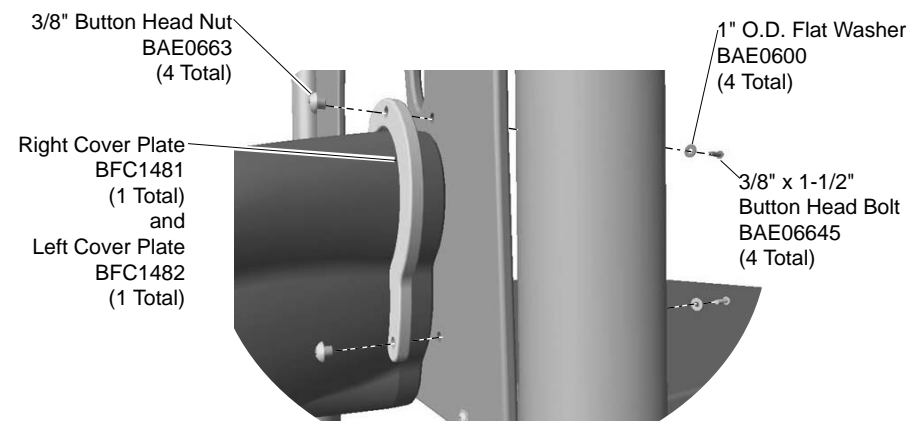


Installation Instructions



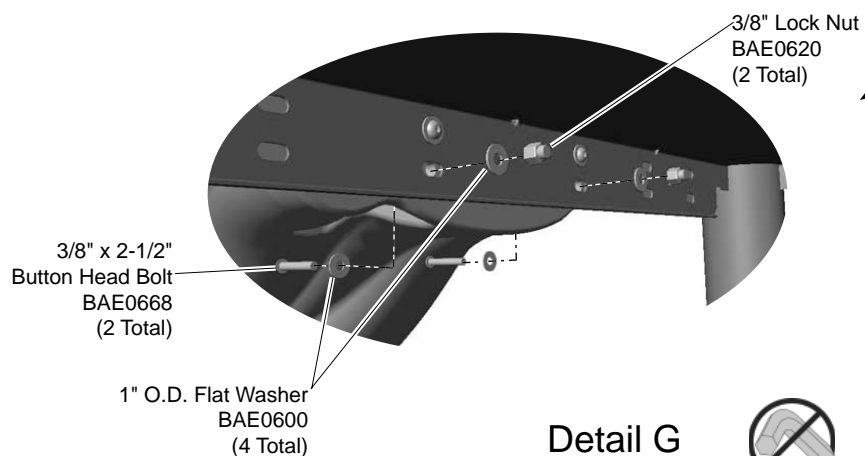
Detail F
Step 9

*Attach the slide to the panel
and deck (upper connections)*



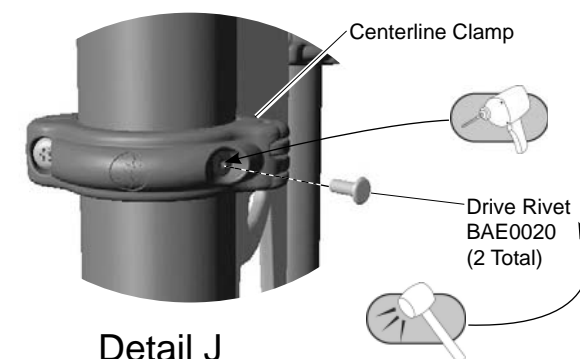
Detail H
Step 11

Attach the cover plates to the panel



Detail G
Step 10

*Attach the slide to the panel
and deck (lower connections)*



Detail J
Step 13
*Secure the clamps to
the posts*

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate / prepare footings as shown in the **Footing Details** in the Guidelines at the beginning of this booklet. Use the **Component Footing Details** for the in-ground model.

Step 4: Attach the anchor post / anchor bracket to the slide. See **Detail A-1** or **Detail A-2**. Attach the post, or bracket, that came with your slide as shown in the appropriate detail.

Step 5: Attach the panel connectors to the routed side of the slide panel. See **Detail B-1**. Attach the connectors to the panel as shown. In the event of a clamp interference with another component, the connectors can be rotated and attached as shown in **Detail B-2**.

Step 6: Attach the clamps to the panel connectors. See **Detail C**. Attach the clamps to the *deck side* of the connectors as shown.

Step 7: Attach the clamps to the support posts and the bottom sides of the panel to the deck. See **Details D-1 and D-2**. Position the panel against the deck and attach the clamps to the posts as shown. Align the holes in the panel with the holes in the deck and attach the bottom sides of the panel to the deck as shown.

Step 8: Attach the slide to the panel. See **Detail E**. Position the slide against the panel with the anchor post / bracket in, or on, the footing and attach as shown.

Step 9: Attach the slide to the panel and deck (*upper connections*). See **Detail F**. From beneath the deck, attach the slide to the upper holes in the deck as shown.

Step 10: Attach the slide to the panel and deck (*lower connections*). See **Detail G**. From beneath the slide, attach to the lower holes in the deck as shown.

Step 11: Attach the cover plates to the panel. See **Detail H**. Place the cover plates around the top of the slide and against the panel and attach as shown.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**. The slide exit height should be 8.2 in. (208 mm) from the protective surfacing.

Note: Slide exit height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 13: Install the drive rivets. See **Detail J**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Step 15: Apply the hood string entanglement warning label to the slide.

PM3236 - ZIGZAG SLIDE 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
APT0680	POST - 24.30" x 9.76" x 3.76"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8-16" LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8-16" x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8-16" x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8-16" x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8-16" x 1-1/2" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8-16" x 1-1/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16" x 2" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8-16" x 2-1/2" BUTTON HEAD - SS	2
BFC1322	SHEET - 42.00" x 47.00" x .75" ZIGZAG SLIDE PANEL	1
BFC1481	SHEET - 6.49" x 14.04" x .75"	1
BFC1482	SHEET - 8.09" x 15.22" x .75"	1
BPL0318	45 DEGREE ZIGZAG SLIDE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3236S - ZIGZAG SLIDE 60 in. (1524 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
ABC0566	BRACKET - 40.00" x 5.50" x 2.25" SURFACE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8-16" LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8-16" x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8-16" x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8-16" x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8-16" x 1-1/2" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8-16" x 1-1/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16" x 2" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8-16" x 2-1/2" BUTTON HEAD - SS	2
BFC1322	SHEET - 42.00" x 47.00" x .75" ZIGZAG SLIDE PANEL	1
BFC1481	SHEET - 6.49" x 14.04" x .75"	1
BFC1482	SHEET - 8.09" x 15.22" x .75"	1
BPL0318	45 DEGREE ZIGZAG SLIDE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM8060	36" (915 mm)	66.5 lbs. (30.2 kg)
ZZPM8070	48" (1220 mm)	68.4 lbs. (31.1 kg)
ZZPM8080	60" (1525 mm)	69.7 lbs. (31.7 kg)
ZZPM8090	72" (1830 mm)	71.6 lbs. (32.5 kg)

Installation Instructions

Playmakers® Model PM8060,
PM8070, PM8080, and PM8090

Sliding Pole

36 in. (915 mm), 48 in. (1220 mm),
60 in. (1525 mm), and 72 in. (1830 mm) Decks

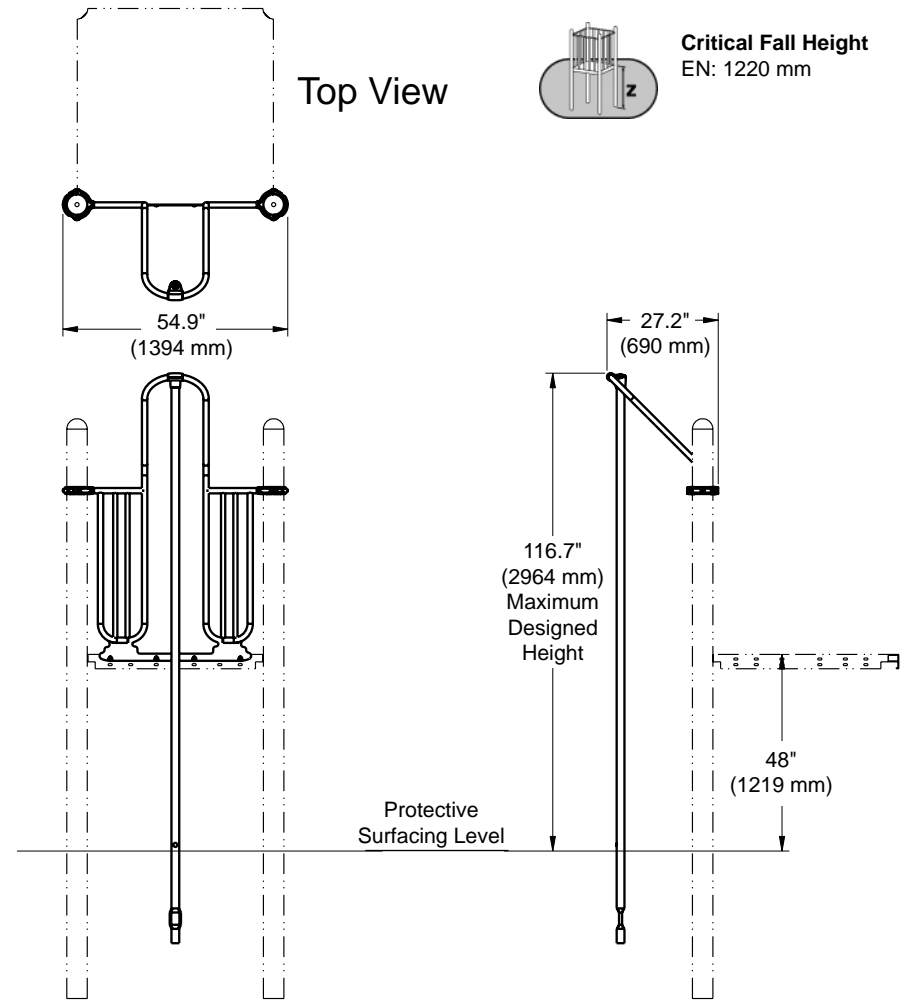
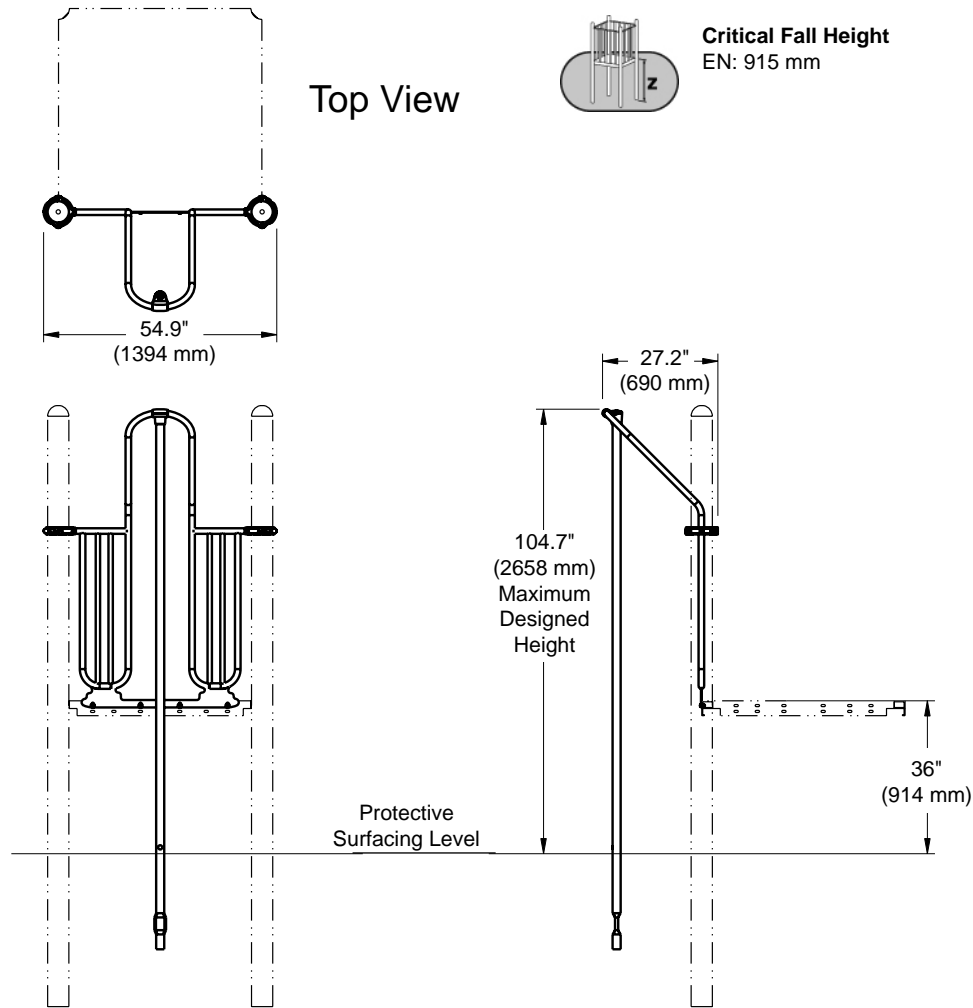
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: (refer to table)
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

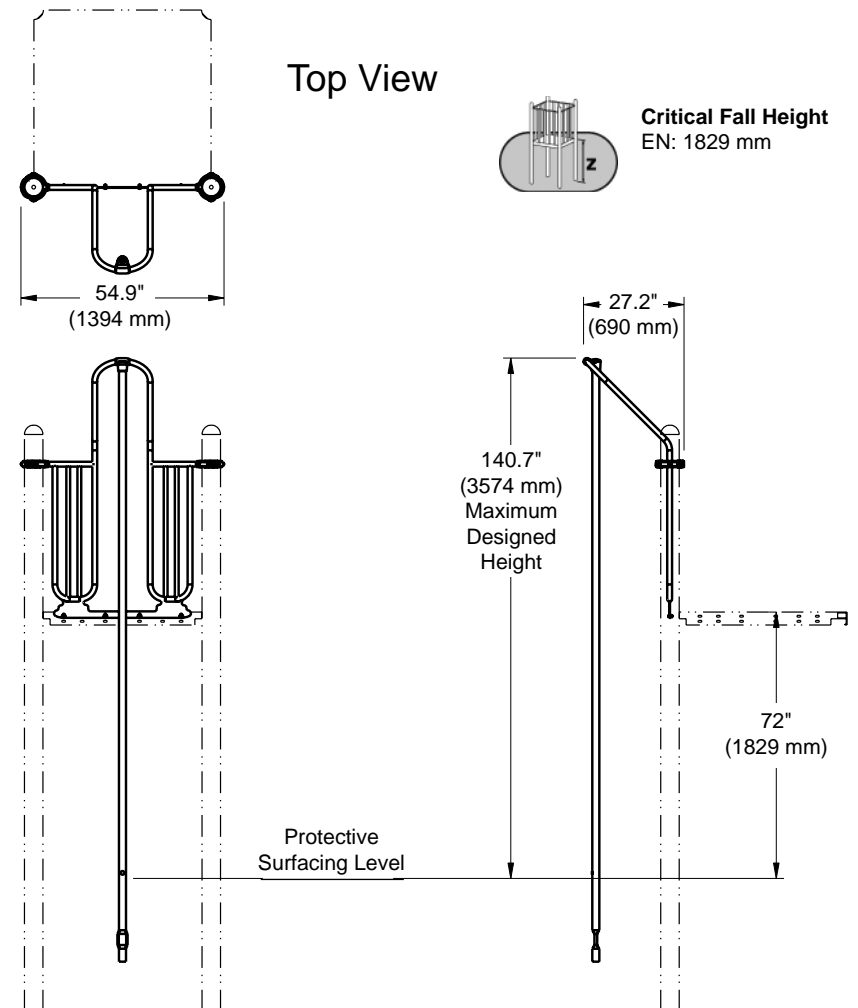
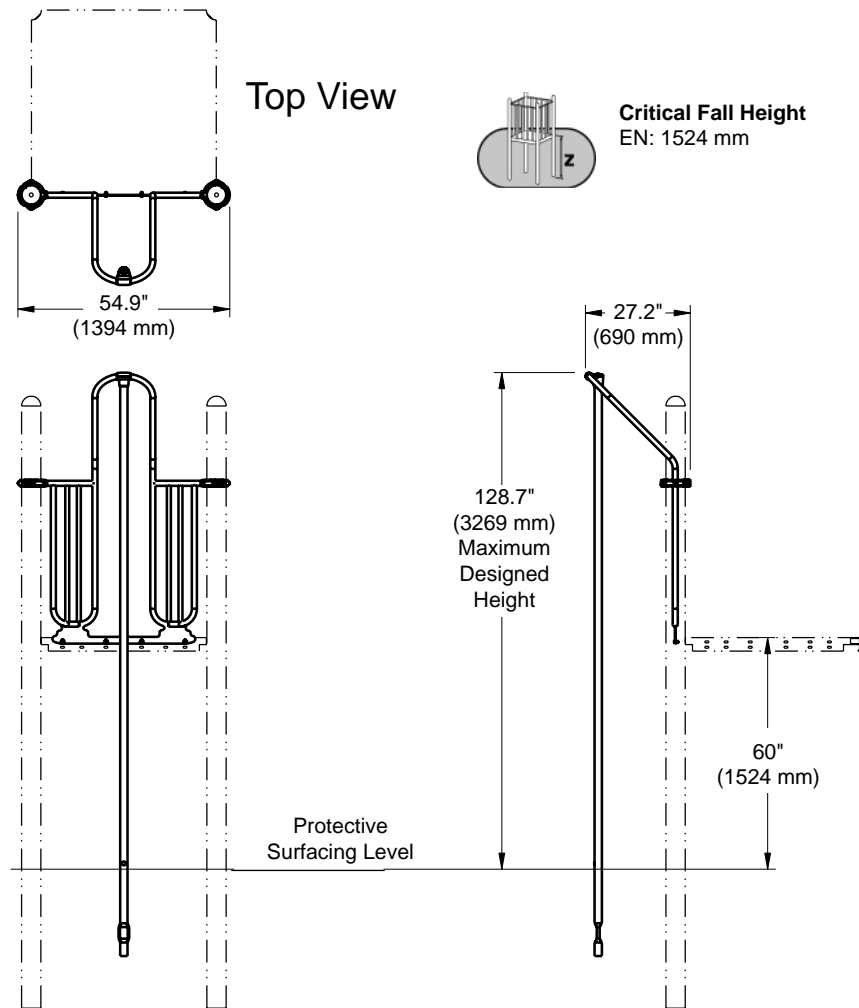
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

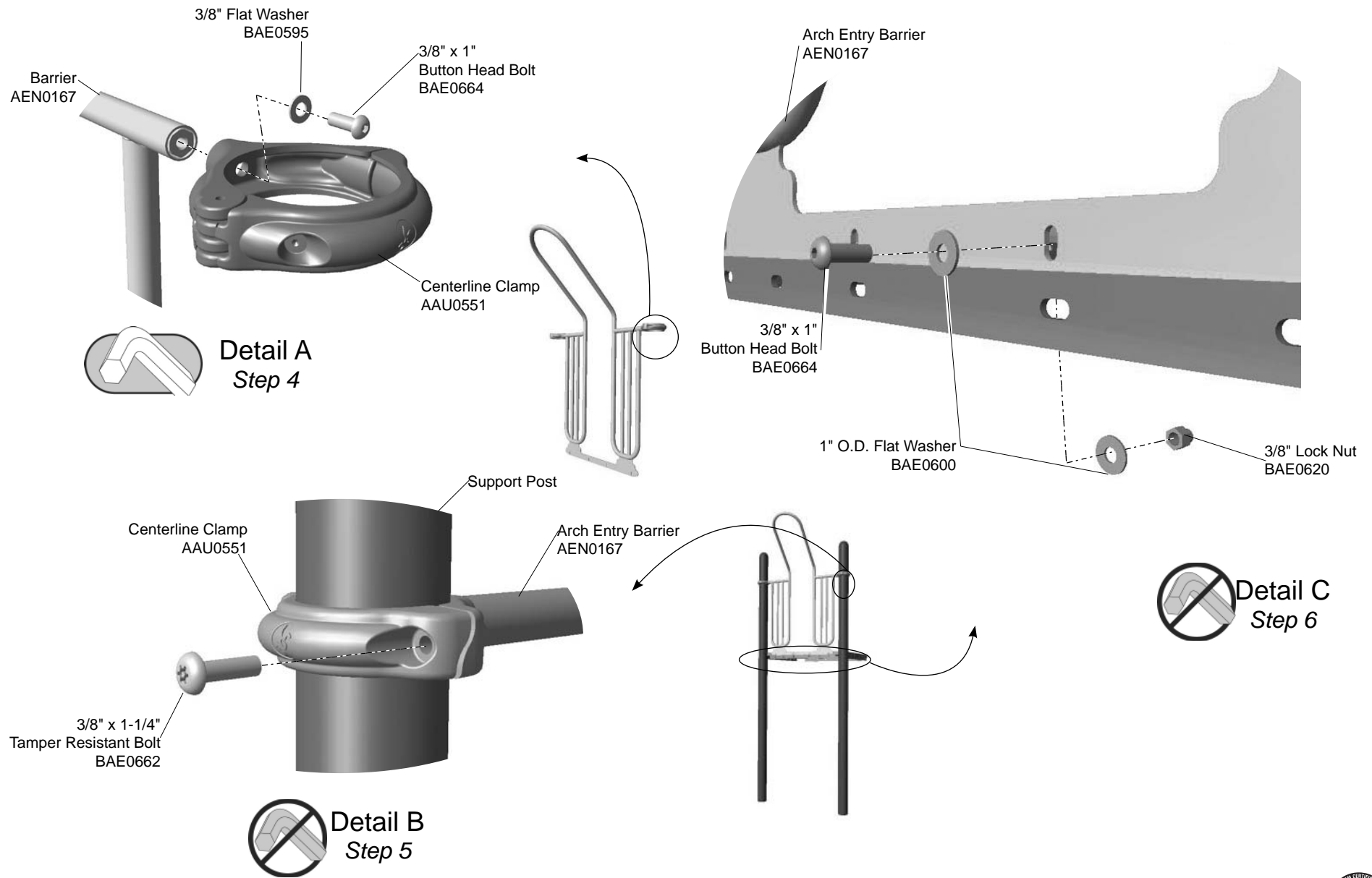


Installation Instructions

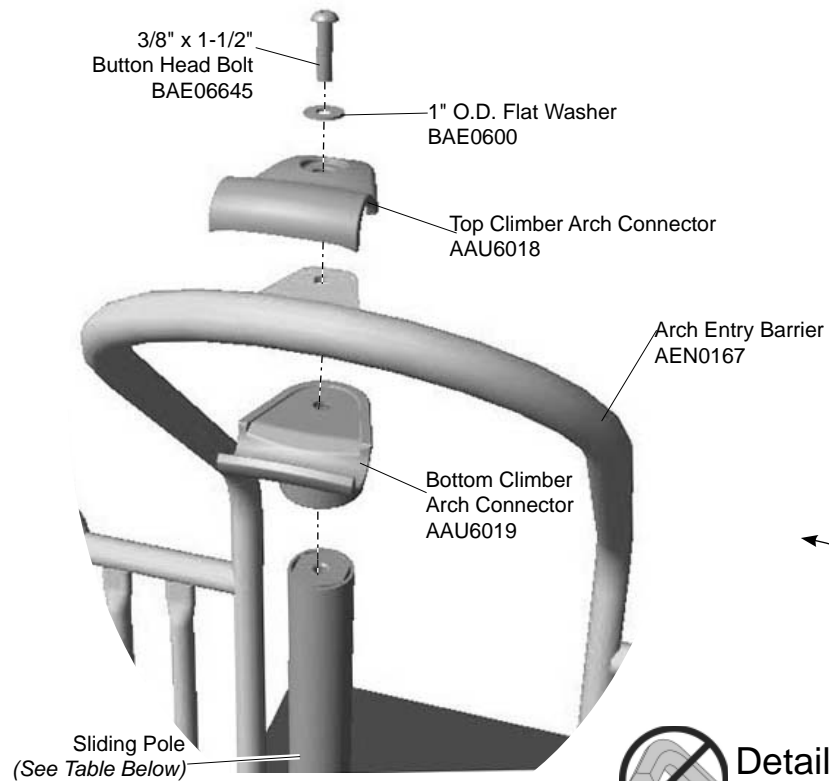


Installation Instructions

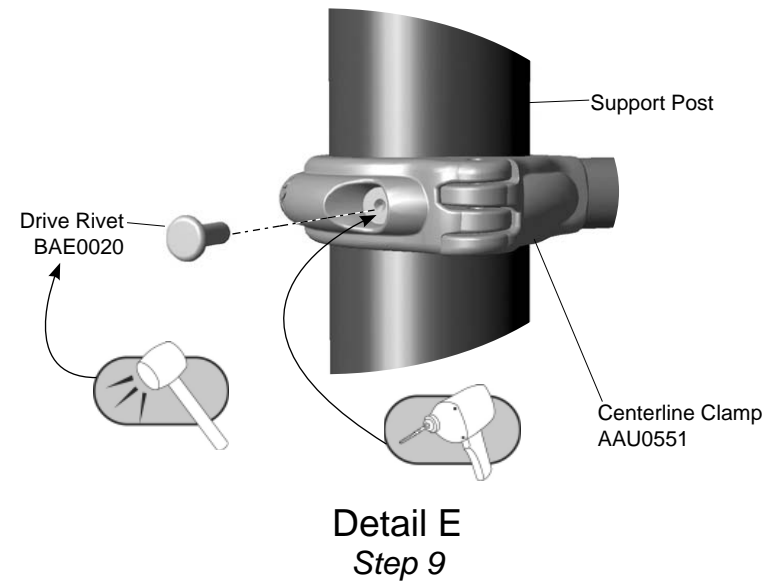
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



Deck Height	Sliding Pole Part Number
36 in. (914 mm)	AFM0465
48 in. (1219 mm)	AFM0466
60 in. (1524 mm)	AFM0467
72 in. (1829 mm)	AFM0468



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate holes as shown in the **Footing Details**.

Attach the clamps to the arch entry barrier.

__Step 4: Attach the clamps to the barrier. See **Detail A**. Select the arch entry barrier, centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against an end of the barrier top rail and align holes. Attach as shown. Turn the clamp so that the hinge faces away from the entry, and fully tighten bolt.

Attach the clamps to the support posts.

__Step 5: Attach the clamps to the posts. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the barrier into position against deck and close the clamps around the posts. Insert and thread each bolt into a clamp. Leave the clamp connection loose for deck connection adjustments.

Attach the barrier to the deck.

__Step 6: Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. The barrier can be attached to either the *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Attach as shown.

Attach the sliding pole to the barrier.

__Step 7: Attach the sliding pole to the barrier. See **Detail D**. Select the sliding pole, the top and bottom climber connectors, and the appropriate hardware. There is (1) one connection. Place the sliding pole into the excavated footing, and attach as shown.

Final Details.

__Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM - SLIDING POLE 36 in. (914 mm) DECK (ZZPM8060)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0465	FAB METAL - 36" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 48 in. (1219 mm) DECK (ZZPM8070)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0466	FAB METAL - 48" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 60 in. (1524 mm) DECK (ZZPM8080)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0467	FAB METAL - 60" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 72 in. (1829 mm) DECK (ZZPM8090)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0468	FAB METAL - 72" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



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Assembly View

Installation Instructions
Playmakers® Model PM4646
Storefront Panel

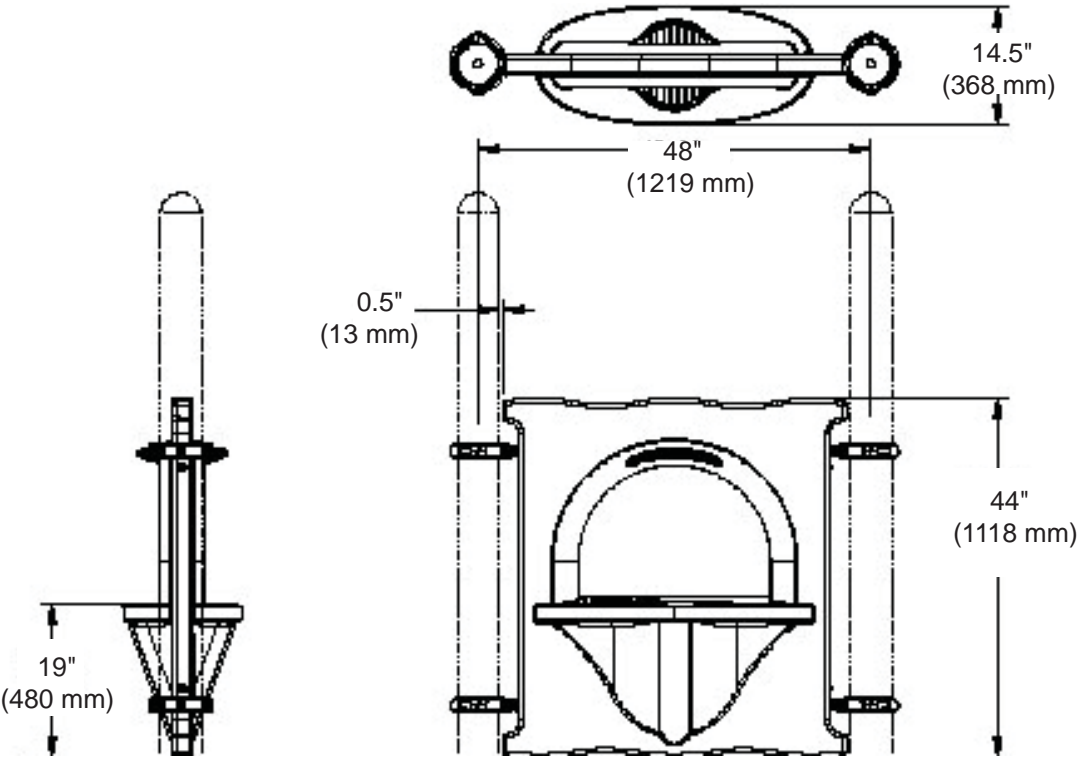
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 44.8 lbs. (20.2 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

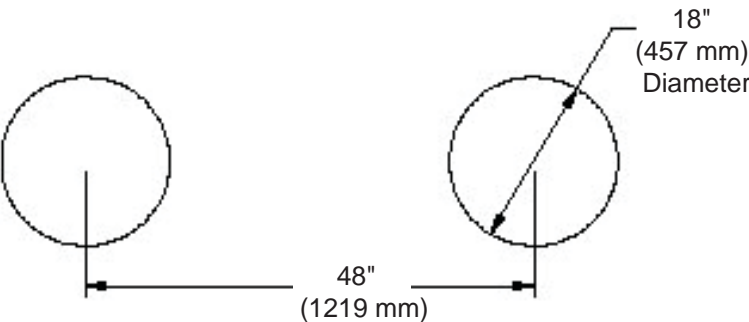
ICON KEY			
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	Do Not Fully Tighten Hardware		Drill
	Hammer		Critical Fall Height

Installation Instructions

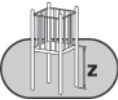
Top View



Footring Diagram



Elevation Views

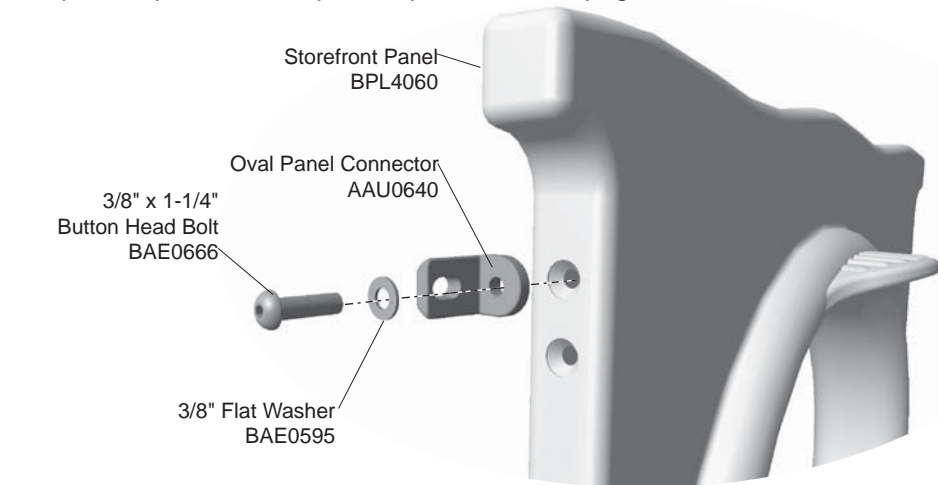


EN: 480 mm

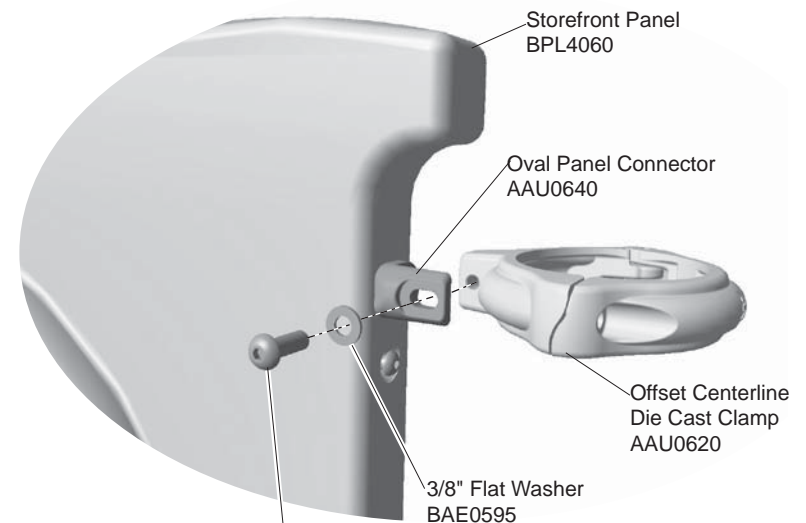
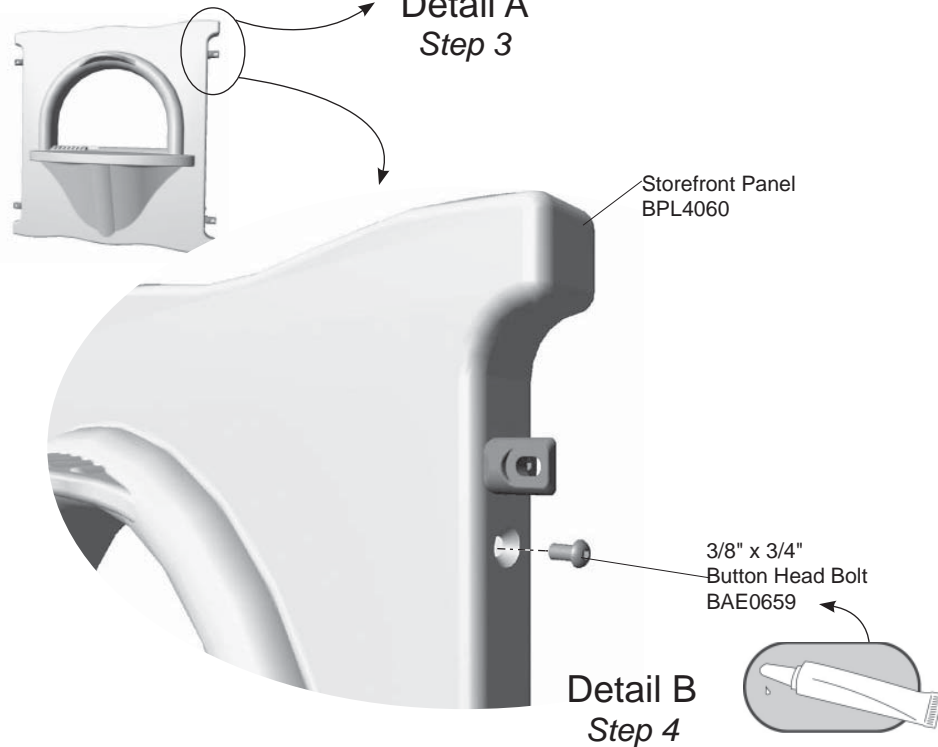


Installation Instructions

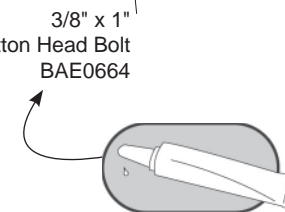
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



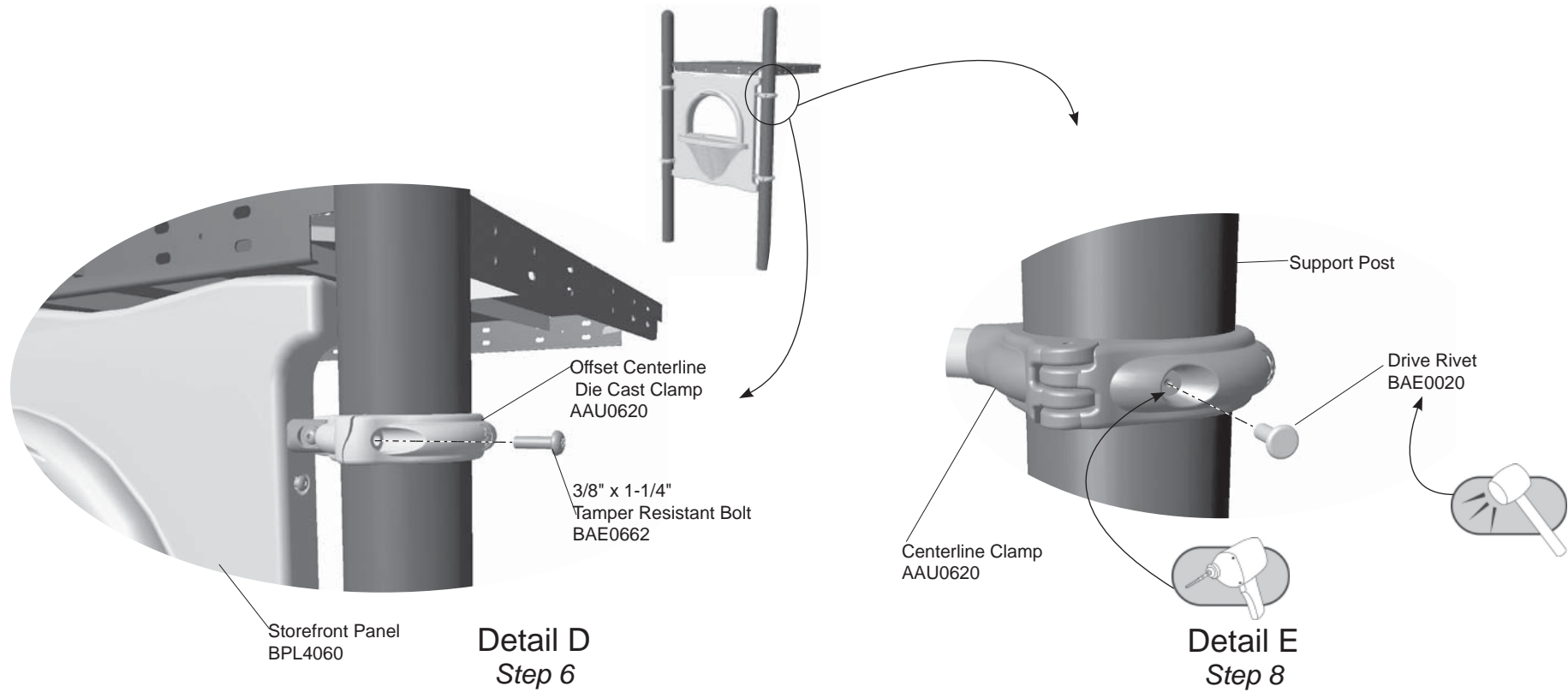
Detail A
Step 3



Detail C
Step 5



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

__Step 3: Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

__Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

__Step 5: Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

__Step 6: Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4646 - STOREFRONT PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1



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Installation Instructions
Playmakers® Model PM4290
Post Mounted Steering Wheel

Installation Preparation

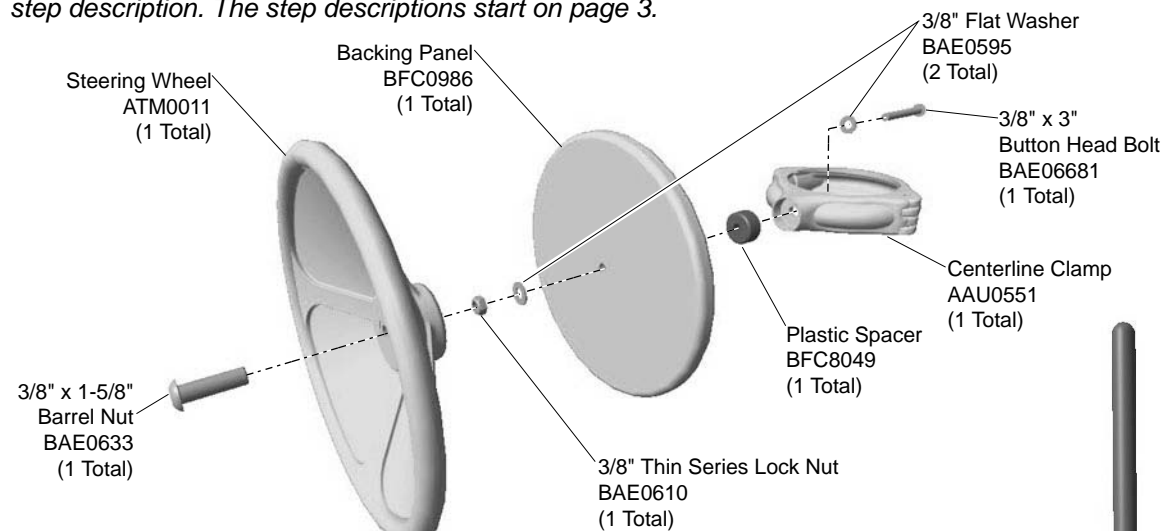
- Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Weight: *8.7 lbs. (3,9 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

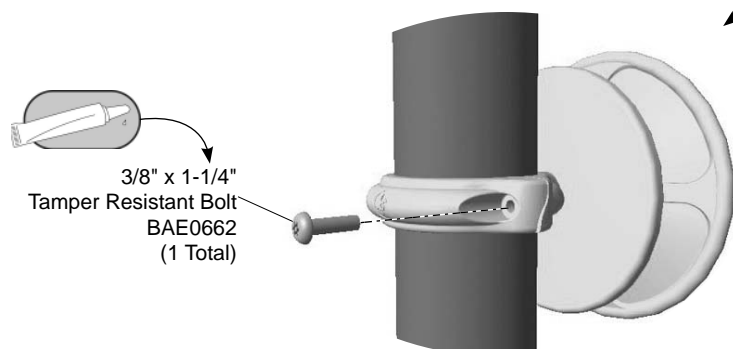
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 3.



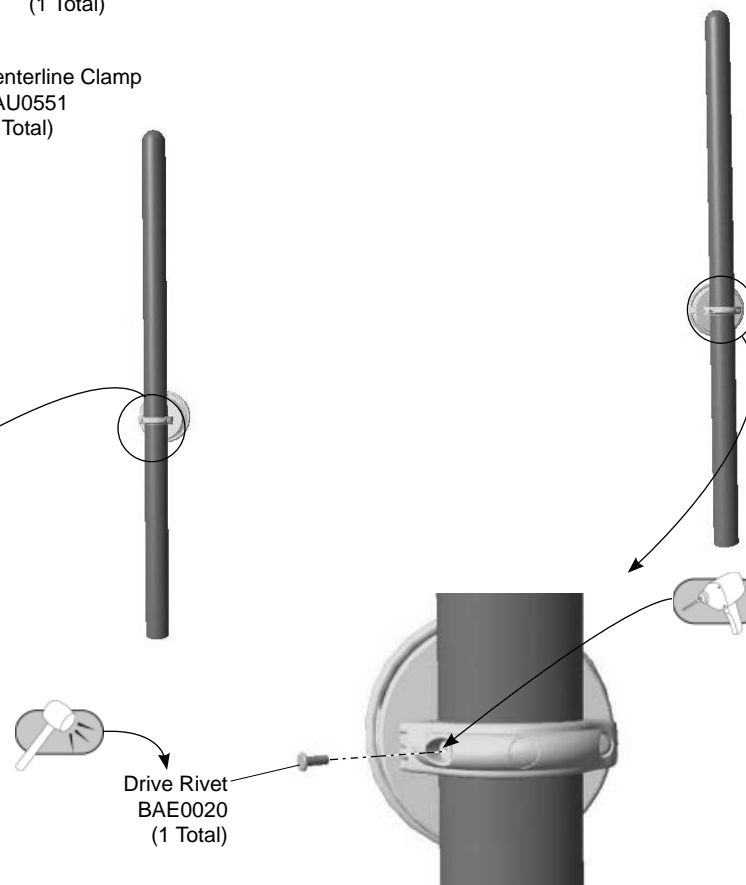
Detail A Step 3

Attach the steering wheel to the backing panel and the clamp.



Detail B Step 4

Attach the steering wheel assembly to the support post.



Detail C Step 6

Secure the clamp to the support post.

Installation Instructions

Bill of Materials

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Reference the master layout drawing for placement of the steering wheel.

Step 3: Attach the steering wheel to the backing panel and the clamp. See **Detail A**. Assemble the steering wheel as shown. Full tighten the connection according to tightening torque specifications (See **Final Details**).

Step 4: Attach the steering wheel assembly to the support post. See **Detail B**. Close the clamp around the support post at the height desired, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 5: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in the clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 7: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

PM4290 - POST MOUNTED STEERING WHEEL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	1
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	1
BFC0986	SHEET - 10.00" x .75" w/HOLE	1
BFC8049	SHEET - 1.39" O.D. x 7/16" I.D. SPACER	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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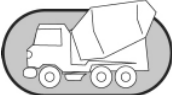
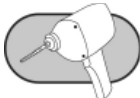

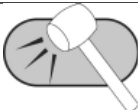
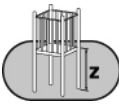


Assembly View

Installation Instructions
Playmakers® Model PM4090
Centerline Pipe Wall Barrier

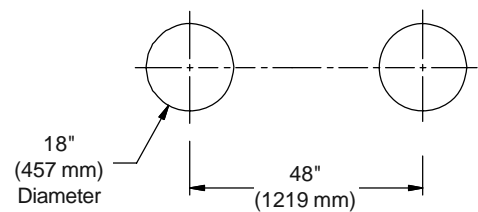
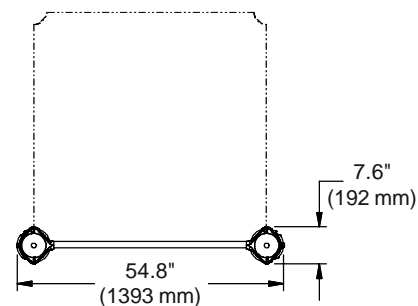
Installation Preparation

- Recommended Crew: One (1) adult
Installation Time: 0.5 installation-hours
Weight: 43 lbs. (19,4 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

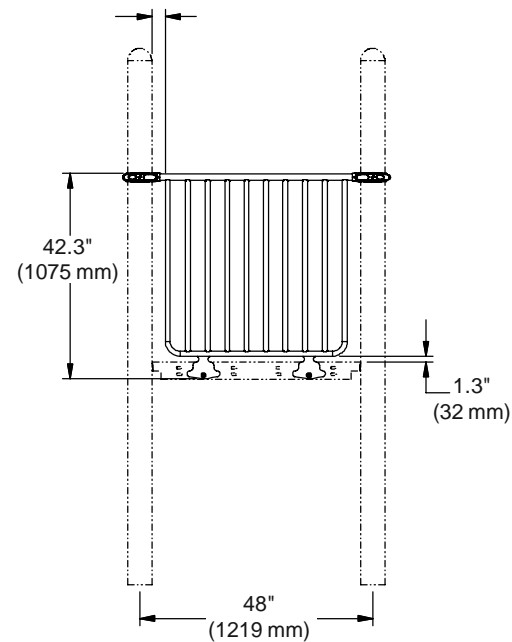
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

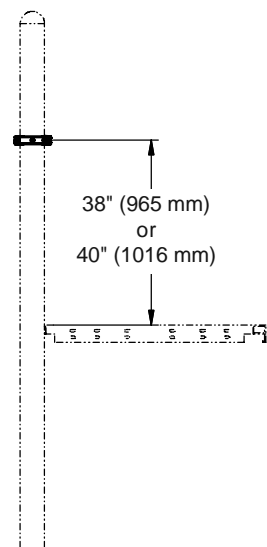
Top View



Footing Diagram

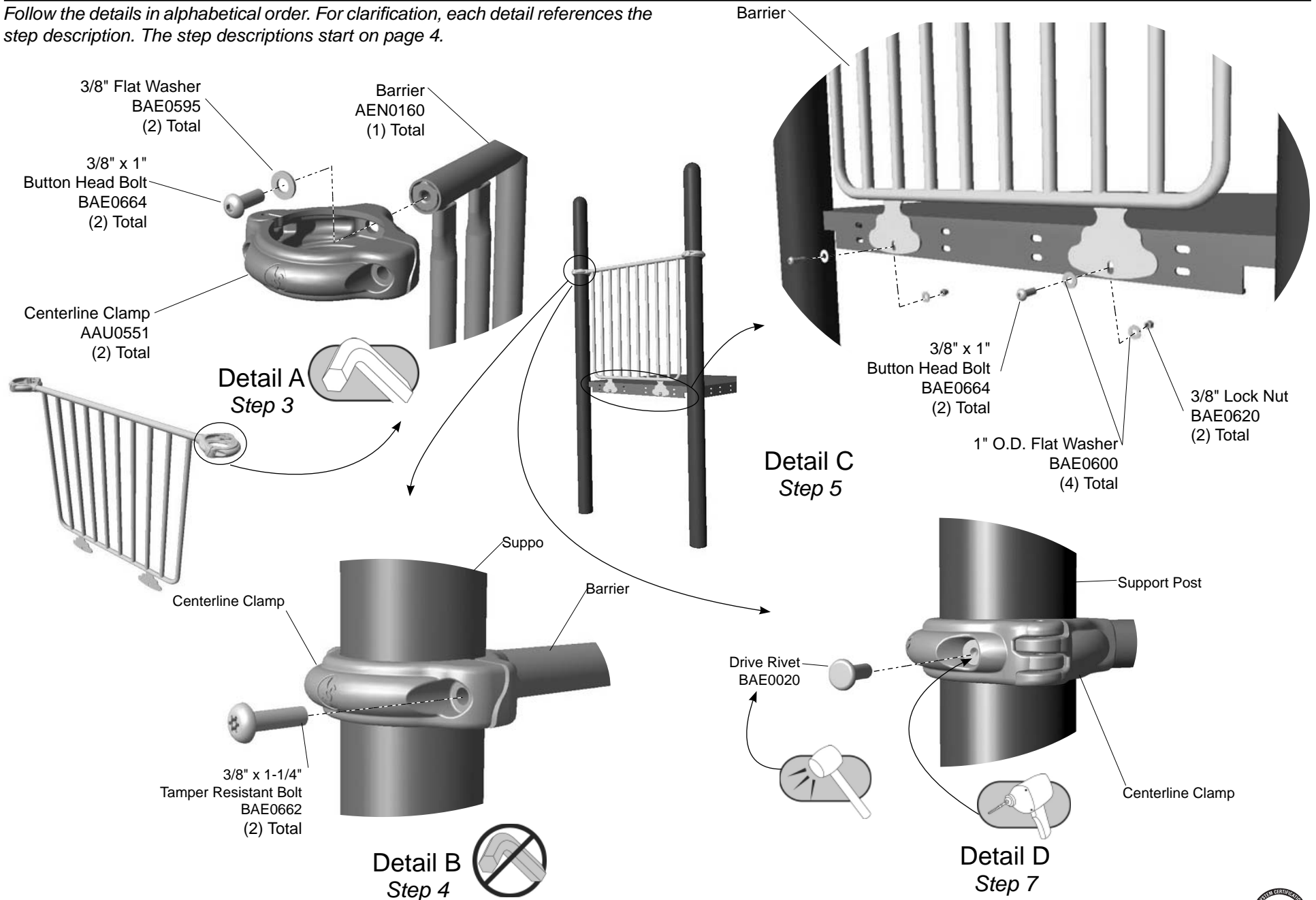


Elevation View



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

Step 3: See **Detail A**. Attach as shown. Make sure the clamps open the same direction.

Attach the clamps to the support posts.

Step 4: See **Detail B**. Lift the barrier into position against the deck. Close the clamps around the support posts. Align the barrier plates with the deck. Attach as shown. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Note: To avoid clamp interference, the deck has been provided with an upper and lower set of holes. Choose the either set of holes that works best with your clamp placement condition.

Attach the bottom of the barrier to the deck.

Step 5: See **Detail C**. Attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

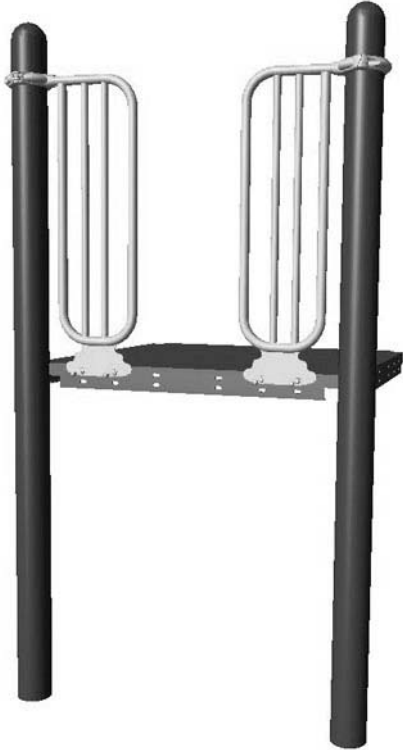
PM4090 - CENTERLINE PIPE WALL BARRIER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0160	BARRIER - 41" CENTERLINE PIPEWALL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	2
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2



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Assembly View

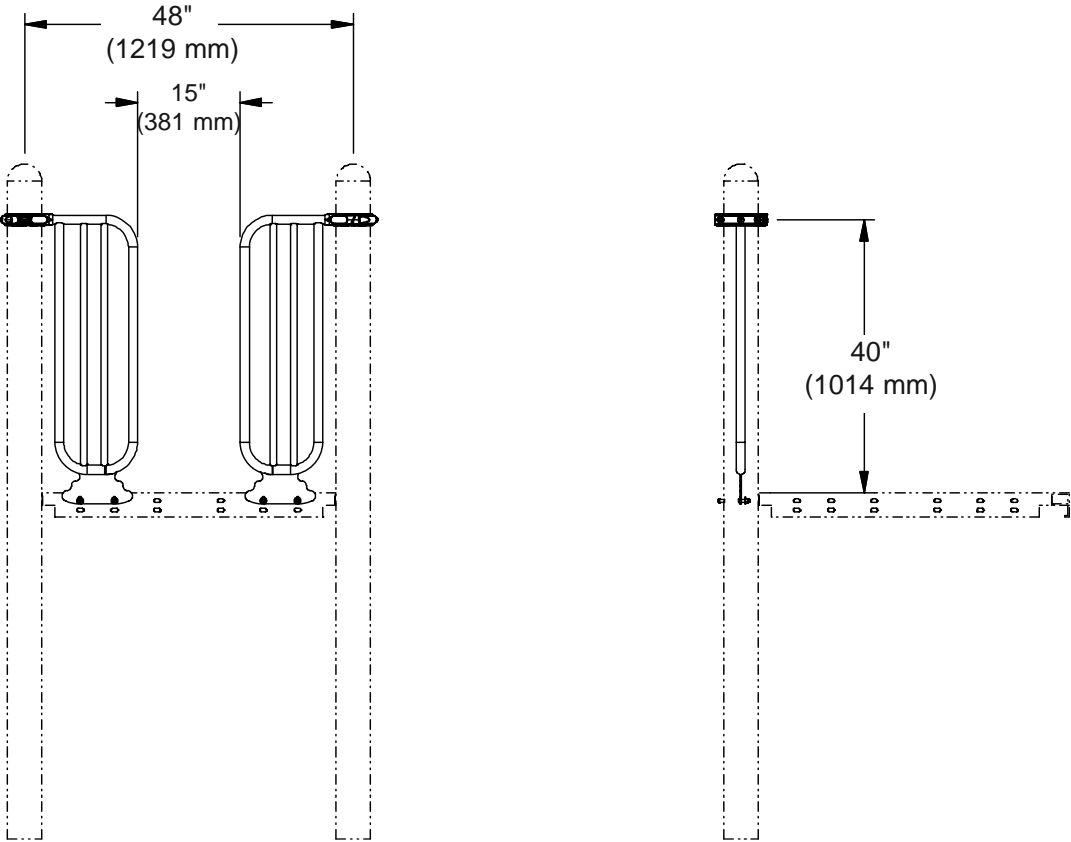
Installation Instructions
Playmakers® Model PM4288
Compliance Access Gate

Installation Preparation

- Recommended Crew: One (1) adult
Installation Time: 0.5 man-hours
Weight: 34 lbs. (15,4 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Drill
	Hammer
	Critical Fall Height

Installation Instructions

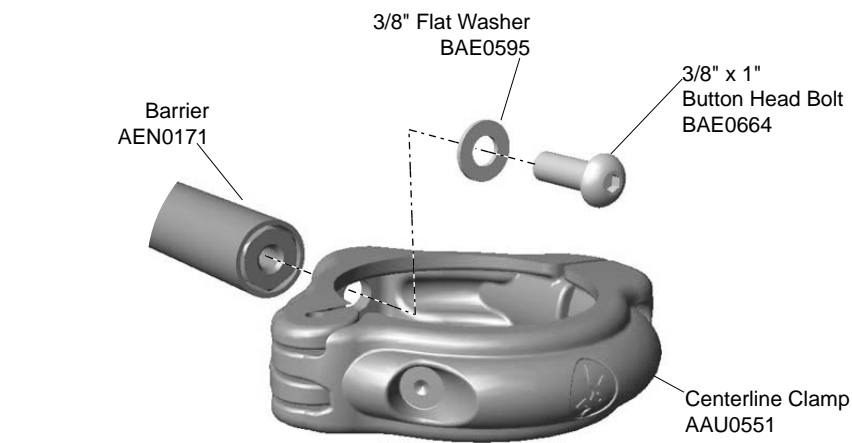


Elevation View

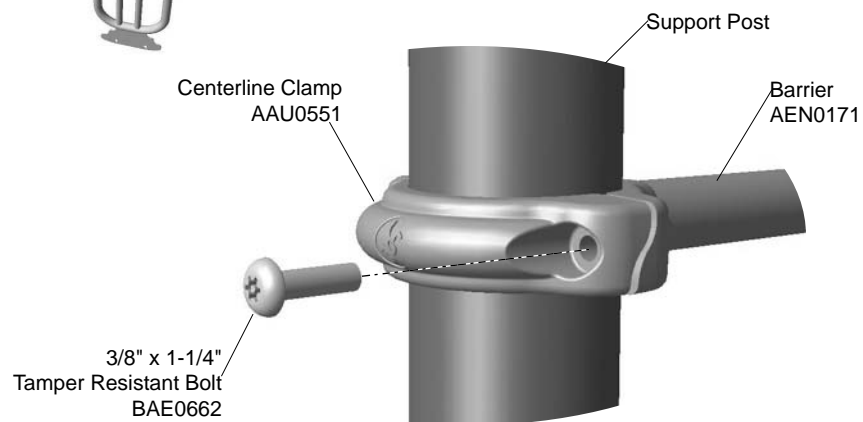


Installation Instructions

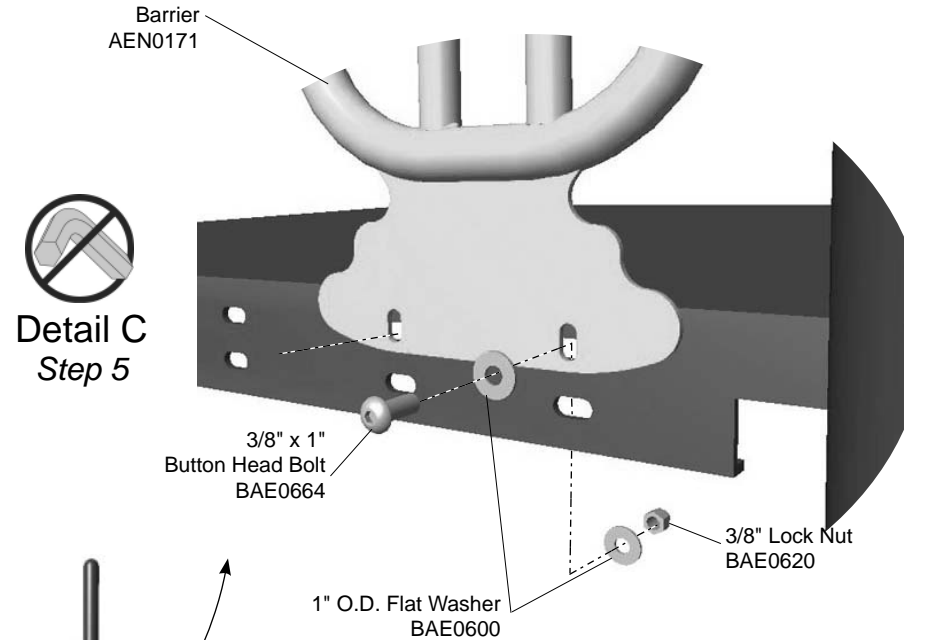
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



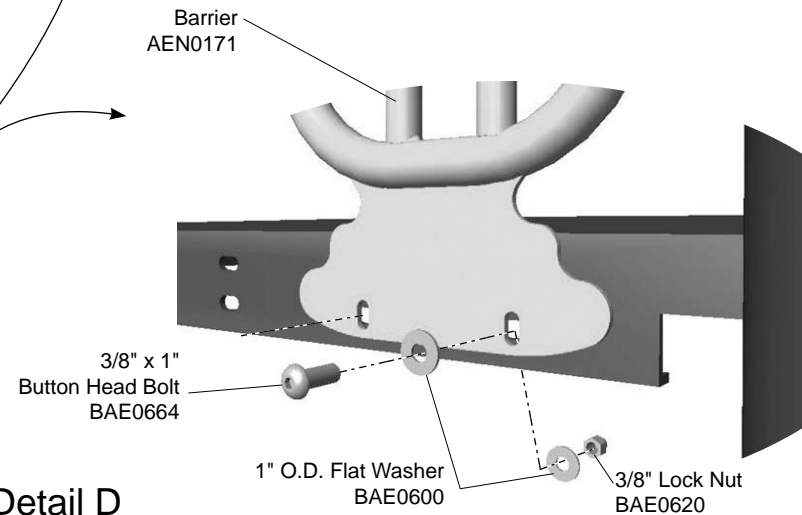
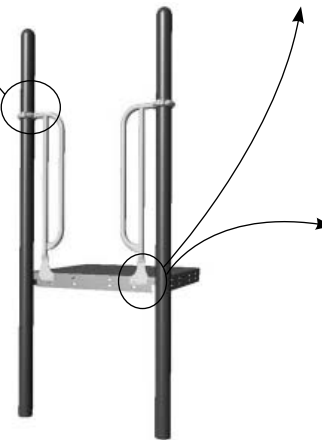
Detail A
Step 3



Detail B
Step 4



Detail C
Step 5

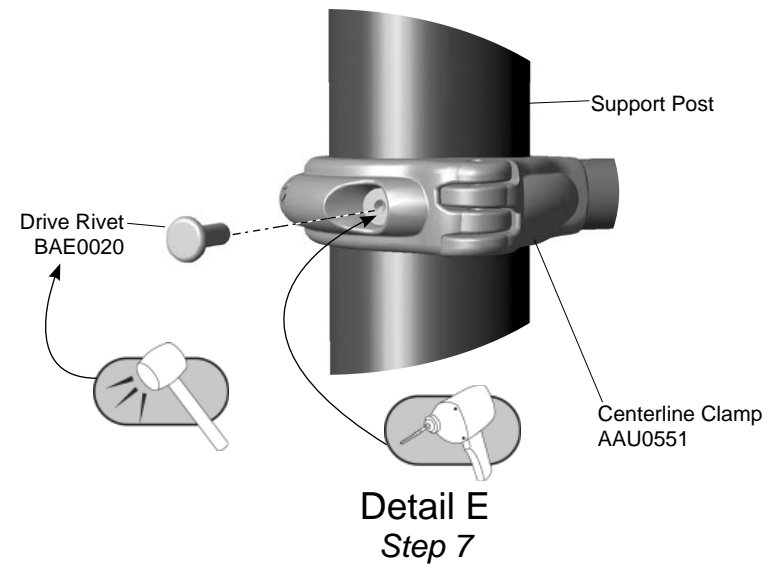


Detail D
Step 5

Installation Instructions



Step 6



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

__Step 3: Attach the clamps to the barrier. See **Detail A**. Select both barriers, both clamps, and the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. Position a clamp against the top of each barrier and attach as shown. Fully tighten the connection.

Attach the clamps to the support posts.

__Step 4: Attach the centerline clamps to the support posts. See **Detail B**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per clamp. Lift each barrier into position against the deck and close each clamp around a support post. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Attach the barrier to the deck.

__Step 5: Attach the barrier to the deck. See **Detail C and D**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. The gate can be connected to either set of deck holes depending on the position of adjacent clamps. Align each gate tab with either the top or bottom hole in the deck and attach as shown.

Note: Both gates should be mounted at the same height.

Final Details.

__Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 7: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4288 - COMPLIANCE ACCESS GATE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0171	BARRIER - 13" x 42-3/16" GATE w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6

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Assembly View

Installation Instructions
Playmakers® Model PM6956
Nuvo™ Swerve Climber

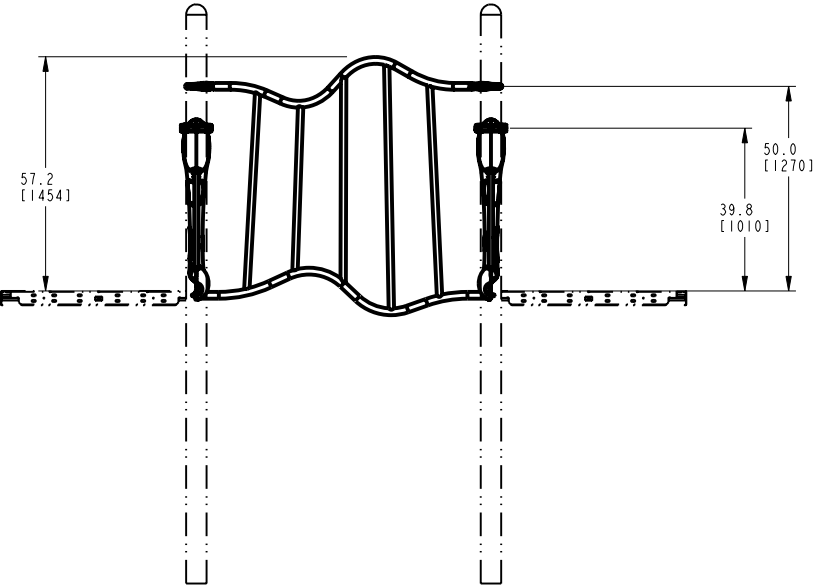
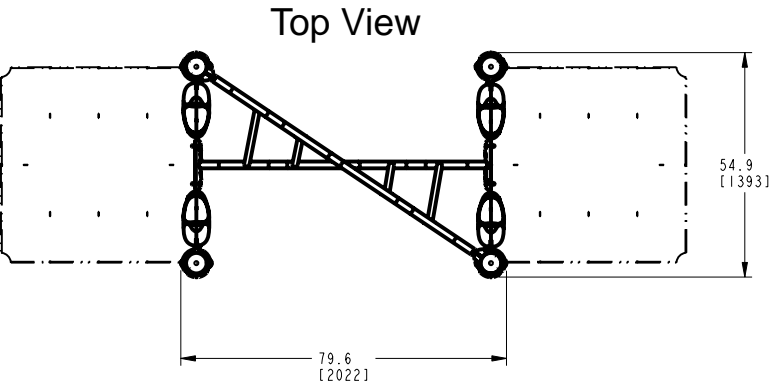
Installation Preparation

- Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

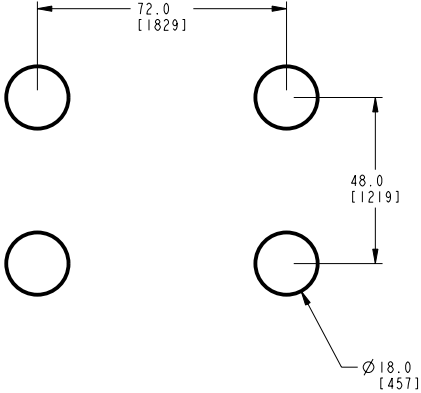
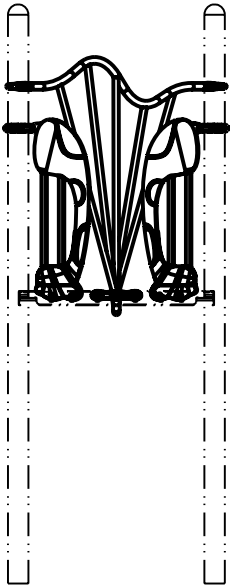
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions

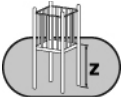
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views



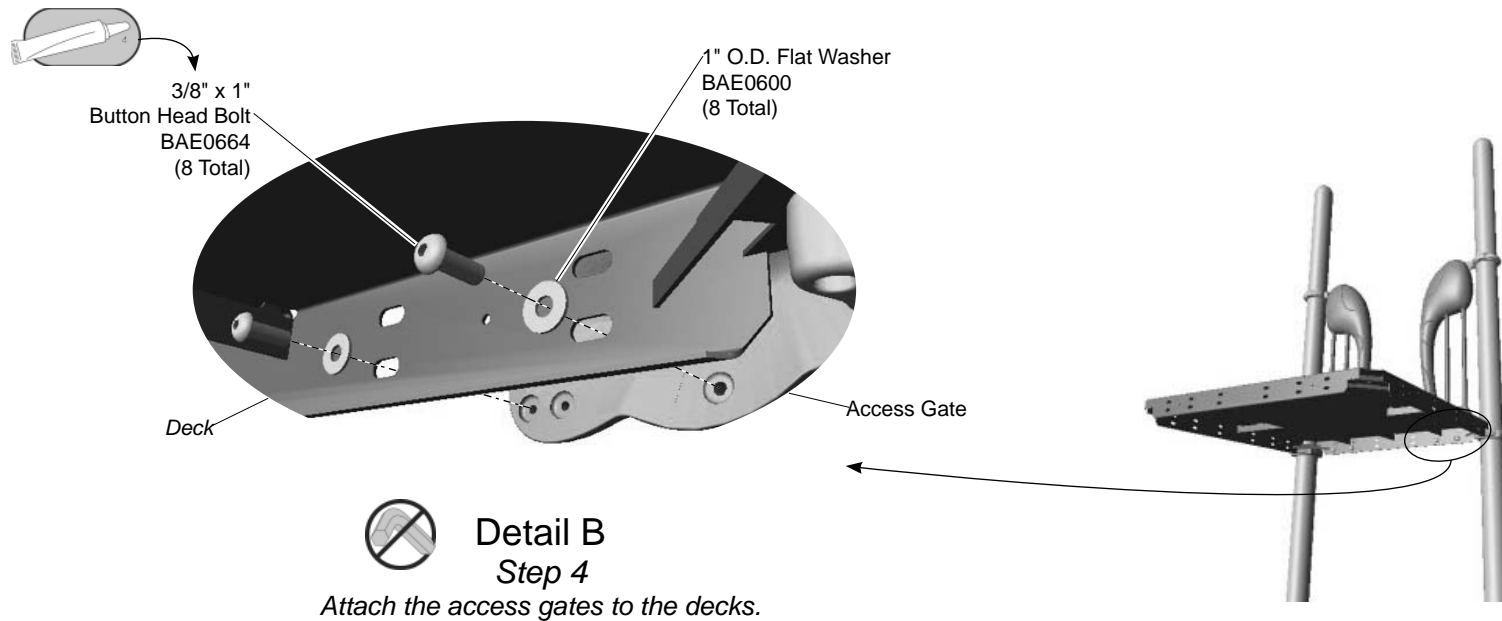
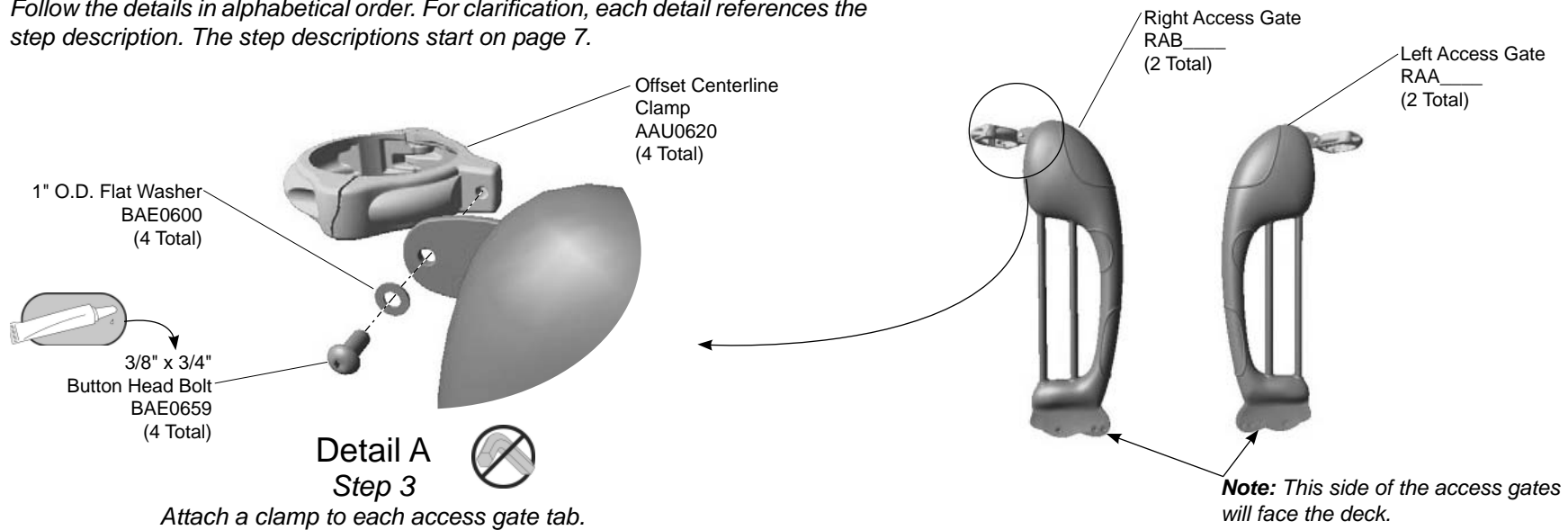
Footing Diagram



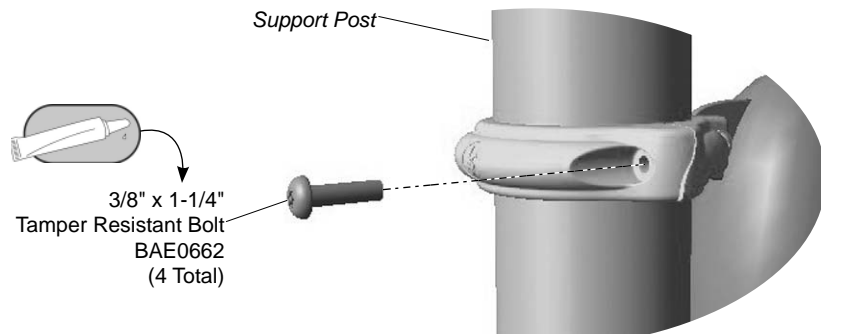
Equal to the height of the deck + 5" (127 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



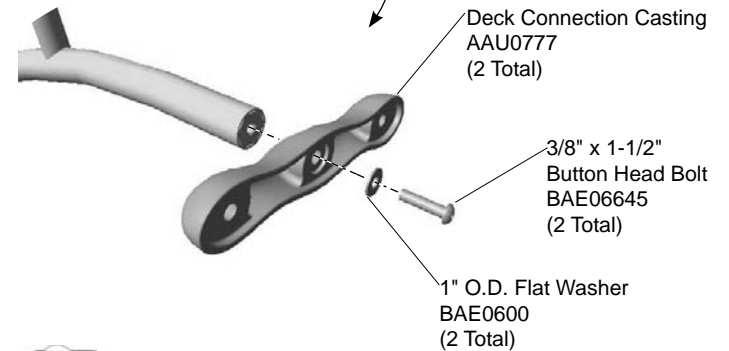
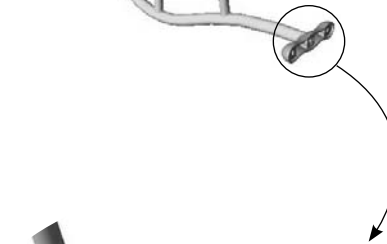
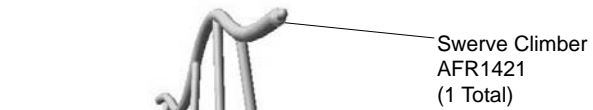
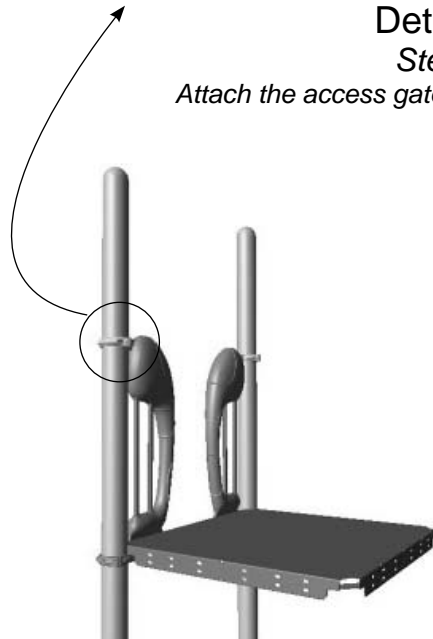
Installation Instructions



Detail C
Step 5



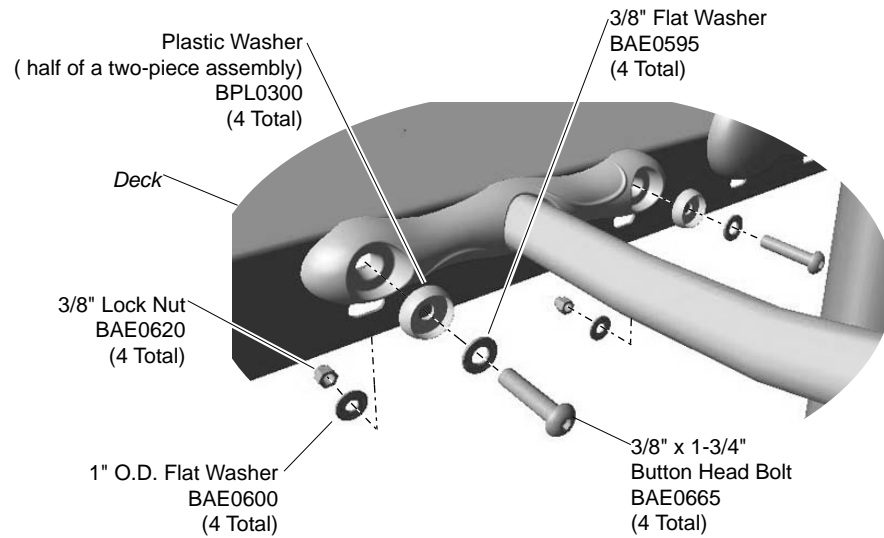
Attach the access gates to the support posts.



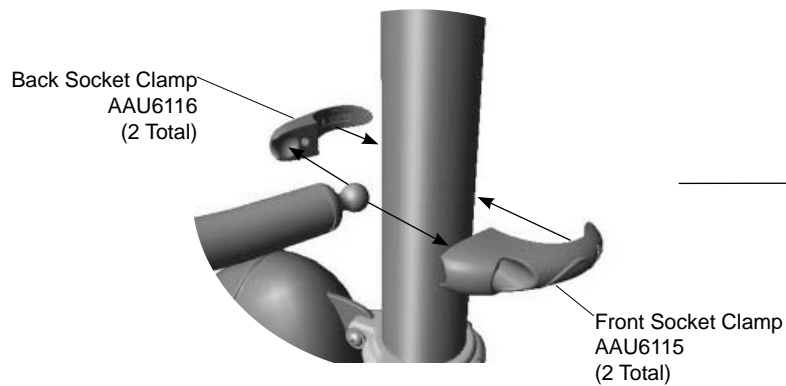
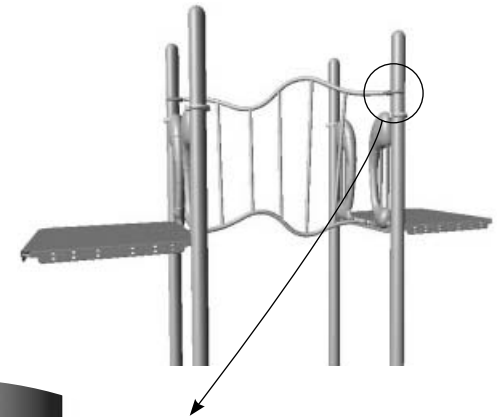
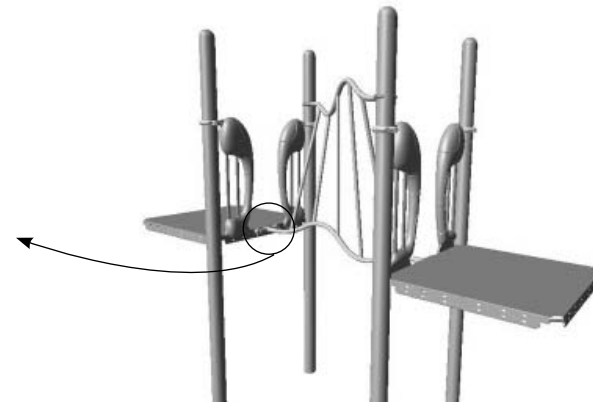
Detail D
Step 6

Attach the deck connection castings to the climber.

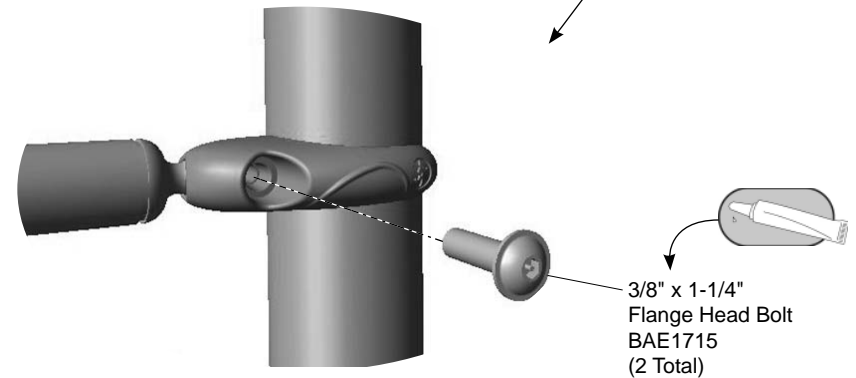
Installation Instructions



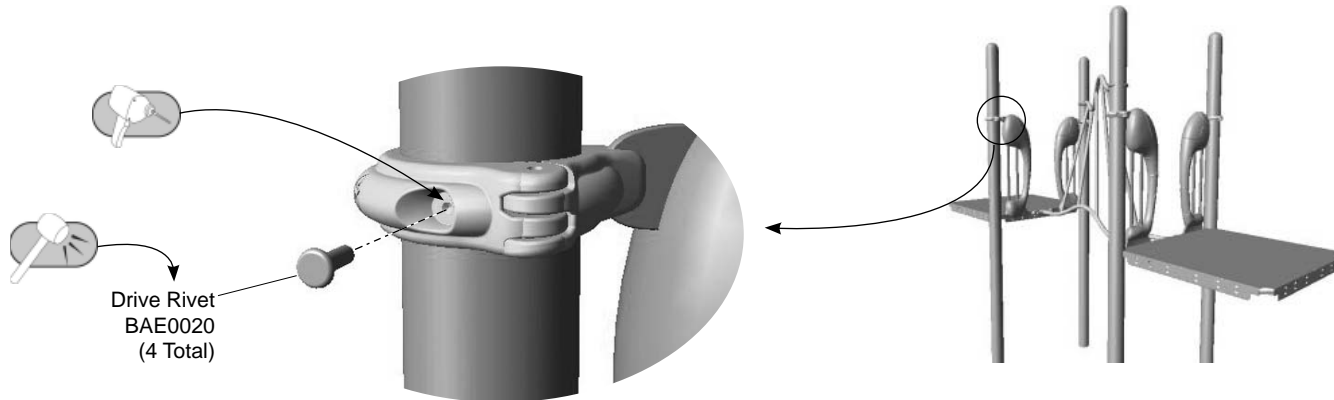
Detail E
Step 7
Attach the climber to the decks.



Detail F
Step 8
Attach the climber to the support posts.



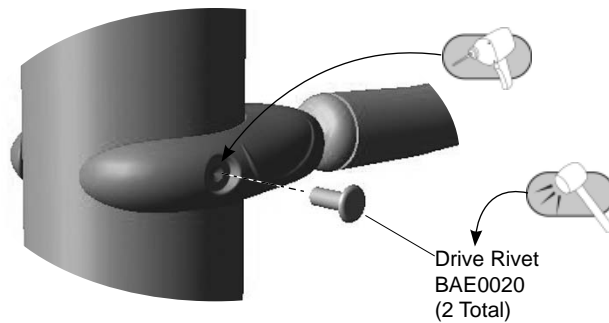
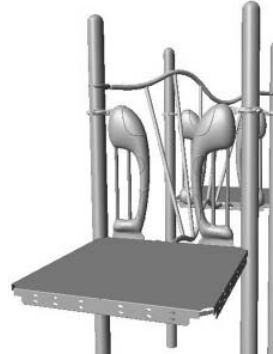
Installation Instructions



Detail G-1

Step 10

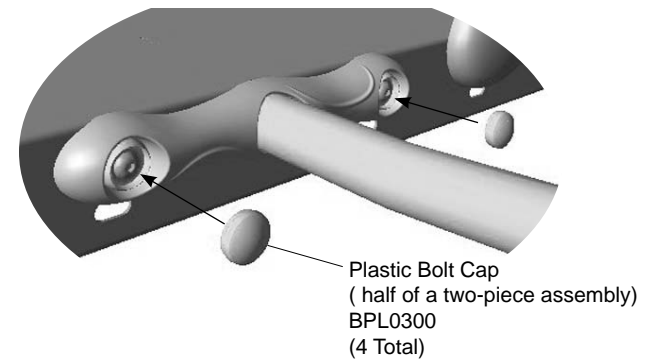
Secure the centerline clamp to the support post.



Detail G-2

Step 10

Secure the front socket clamp to the support post.



Detail H

Step 11

Press the bolt caps into the plastic washers (deck connection castings).

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach a clamp to each access gate tab. See **Detail A**. Position the flat side of each clamp against a gate tab, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Note the side of the gate that faces away from the deck.

Step 4: Attach the access gates to the decks. See **Detail B**. Position an access gate against a deck with the clamp closed around the support post, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Gate may be attached to the upper holes or the lower holes in the deck.

Step 5: Attach the access gates to the support posts. See **Detail C**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 6: Attach the deck connection castings to the climber. See **Detail D**. Position a casting against each end of the climber bottom rail and attach as shown.

Step 7: Attach the climber to the decks. See **Detail E**. With adequate manpower, position the climber between the decks and attach the bottom of the climber to the decks as shown.

Step 8: Attach the climber to the support posts. See **Detail F**. Position a front and a back socket clamp against a support post and over the ball on the end of the climber top rail, apply a drop of thread locking adhesive to the bolt thread, and attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Details G-1 and G-2**. After the equipment assembly is complete, install a drive rivet in each centerline clamp and front socket clamp to permanently secure them to the support posts. Using a 1/4" drill bit, drill through each clamp and the support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp or handle. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 11: Select plastic bolt caps and press into the plastic washers. See **Detail H**. The bolt caps install more easily when they are warm.

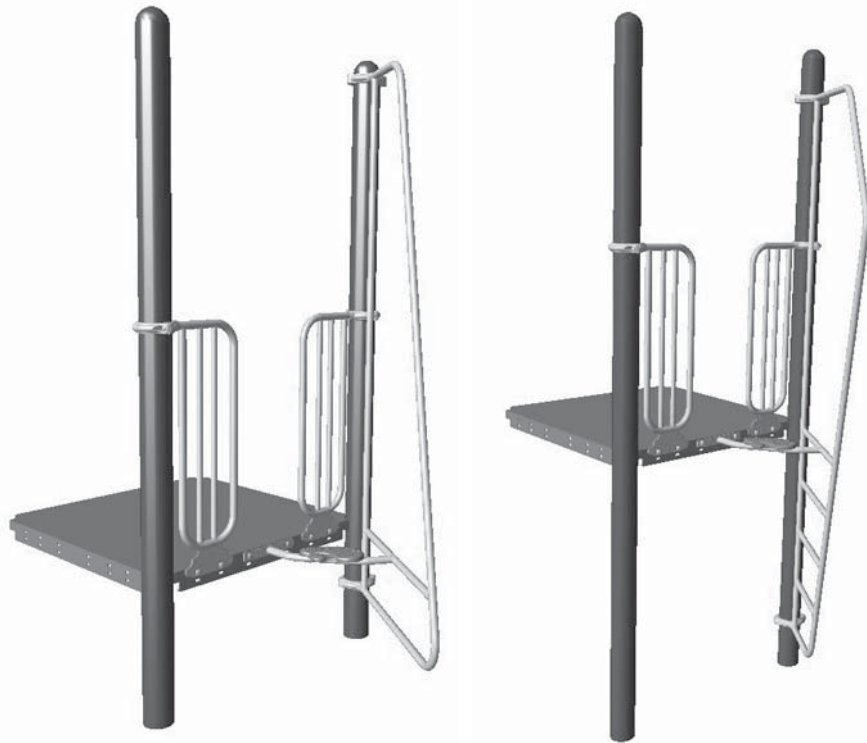
PM6956 - NUVO™ SWERVE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	2
AAU6115	CLAMP - 5" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5" DIA BACK SOCKET	2
AFR1421	CLIMBER - SWERVE	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BPL0300	CAP - 3/8" BOLT	4
RAA____	GATE - ACCESS LEFT	2
RAB____	GATE - ACCESS RIGHT	2



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM7178	24" (610 mm)	70.1 lbs. (31,9 kg)
ZZPM7179	36" (915 mm)	73 lbs. (33,2 kg)
ZZPM7180	48" (1220 mm)	74.3 lbs. (33,8 kg)
ZZPM7189	48" (1220 mm)	76.5 lbs. (34,8 kg)
ZZPM7190	60" (1524 mm)	79 lbs. (35,9 kg)
ZZPM7196	72" (1829 mm)	81.3 lbs. (37 kg)

Installation Instructions

Playmakers® Models PM7178, PM7179, PM7180,
PM7189, PM7190, & PM7196

24 in. (610 mm), 36 in. (914 mm), and 48 in. (1219 mm)

Small Angled Climber

48 in. (1219 mm) , 60 in. (1524 mm), and 72 in. (1829 mm)

Large Angled Climber

Installation Preparation

Recommended Crew: Two (2) adults

Installation Time: 2 man-hours

Weight: (refer to table)

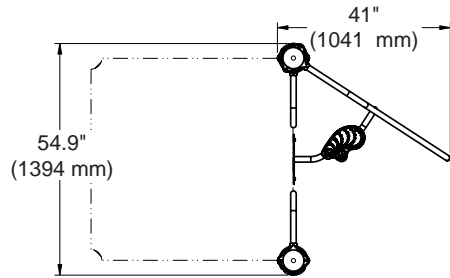
Use Zone:..... Refer to Master Drawing

User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

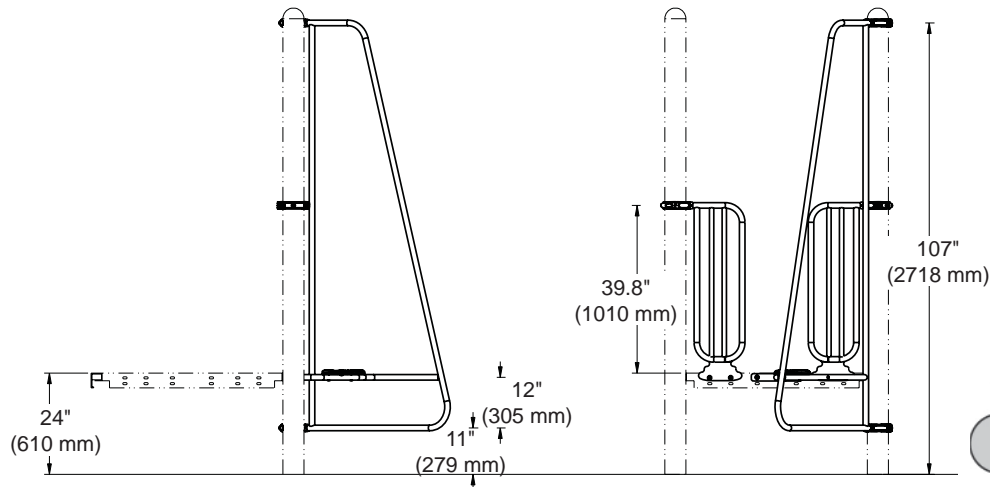
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

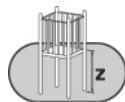
Installation Instructions



Top View

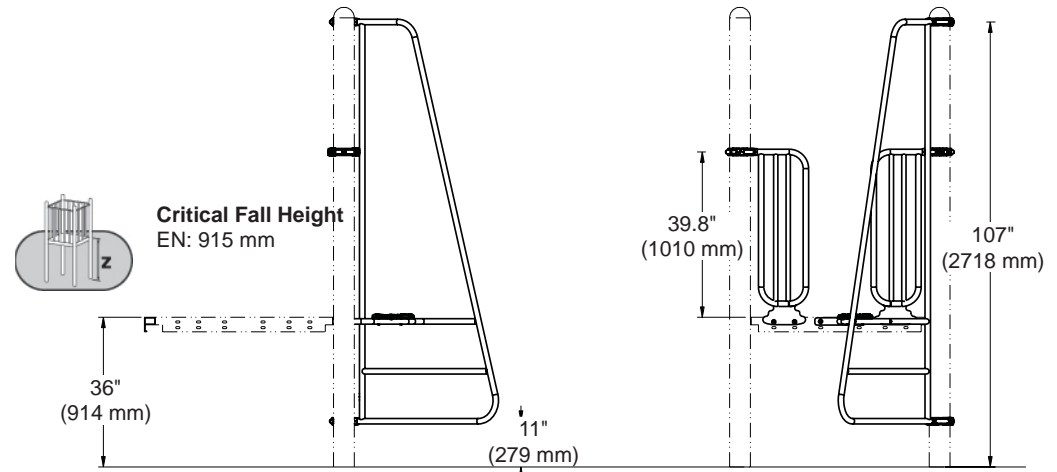


Elevation Views
24" (610 mm) Deck Height

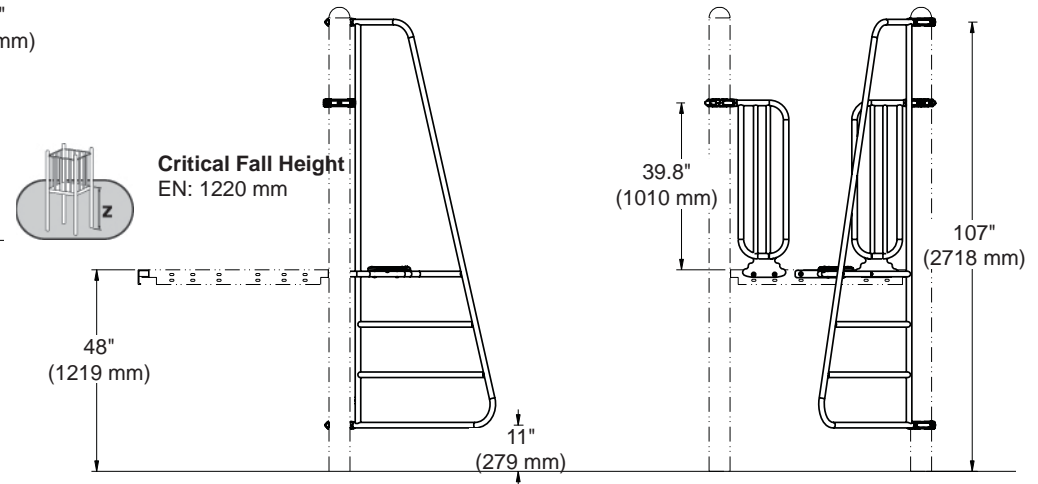


Critical Fall Height
EN: 610 mm

Small Angled Climbers

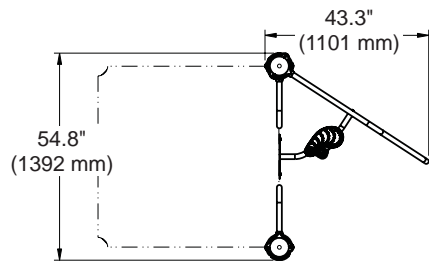


Elevation Views 36" (914 mm) Deck Height

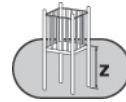


Elevation Views 48" (1219 mm) Deck Height

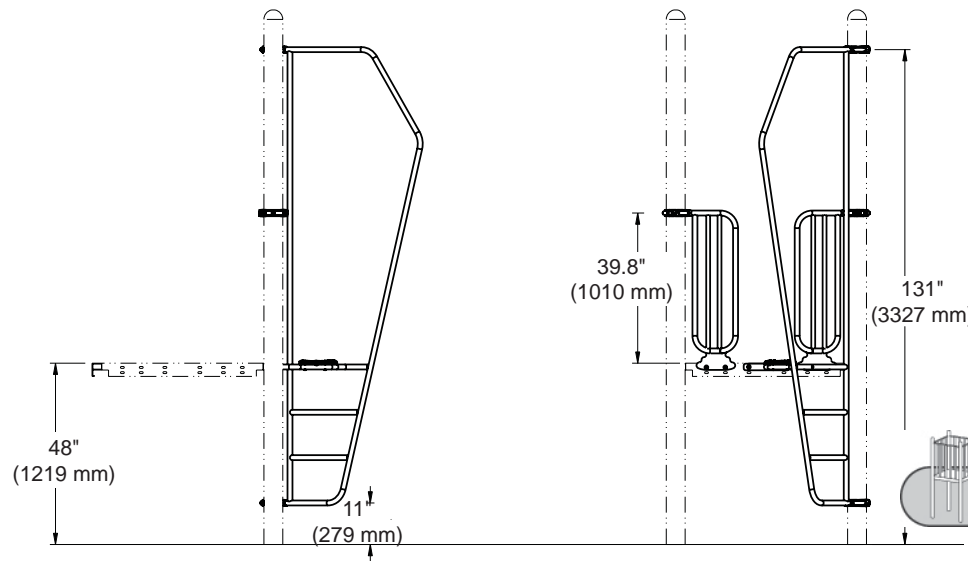
Installation Instructions



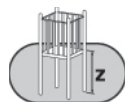
Top View



Critical Fall Height
EN: 1524 mm

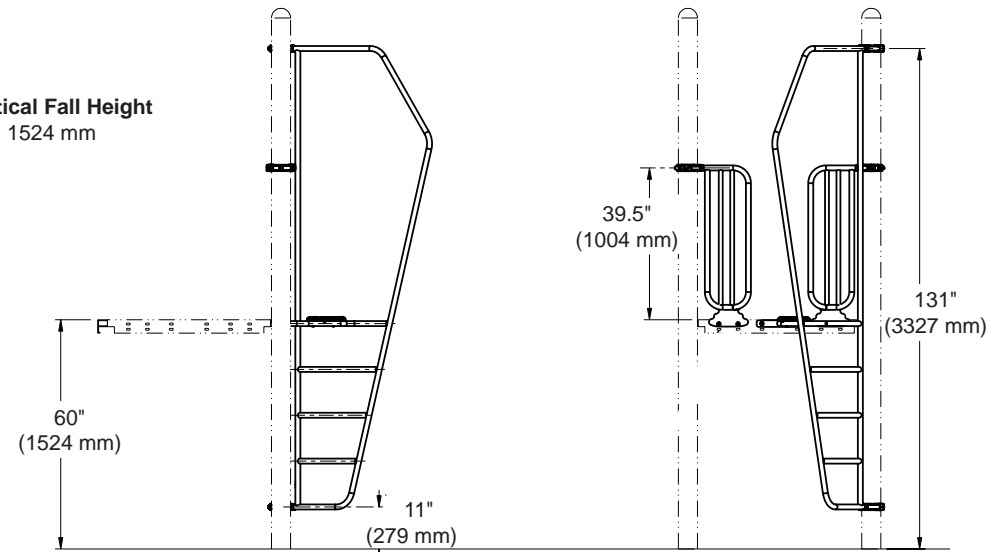


Elevation Views
48" (1219 mm) Deck Height

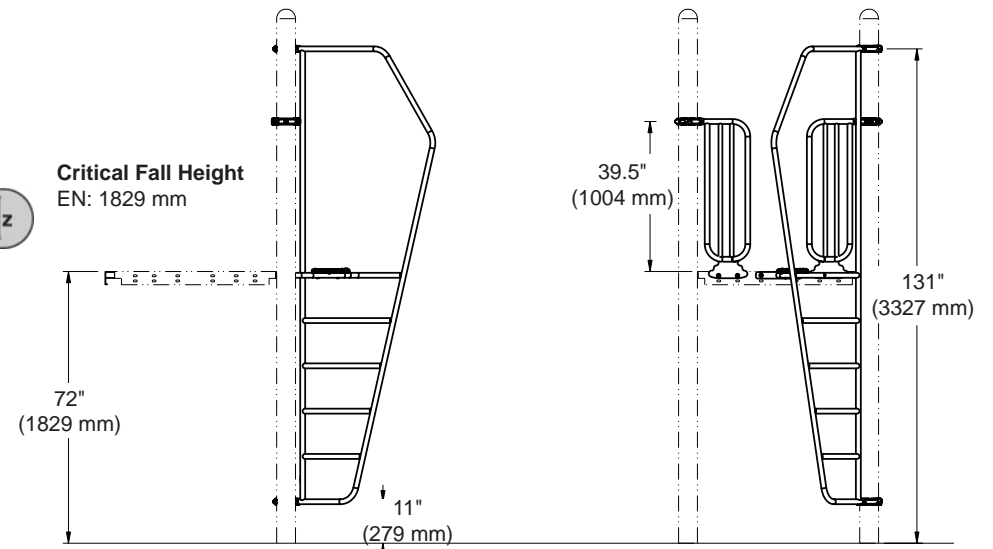


Critical Fall Height
EN: 1219 mm

Large Angled Climbers



Elevation Views 60" (1524 mm) Deck Height

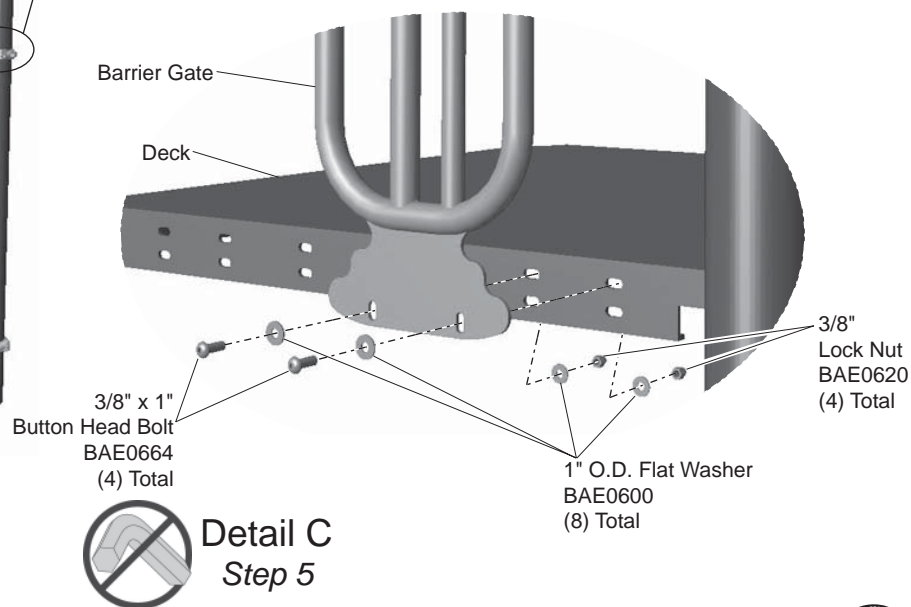
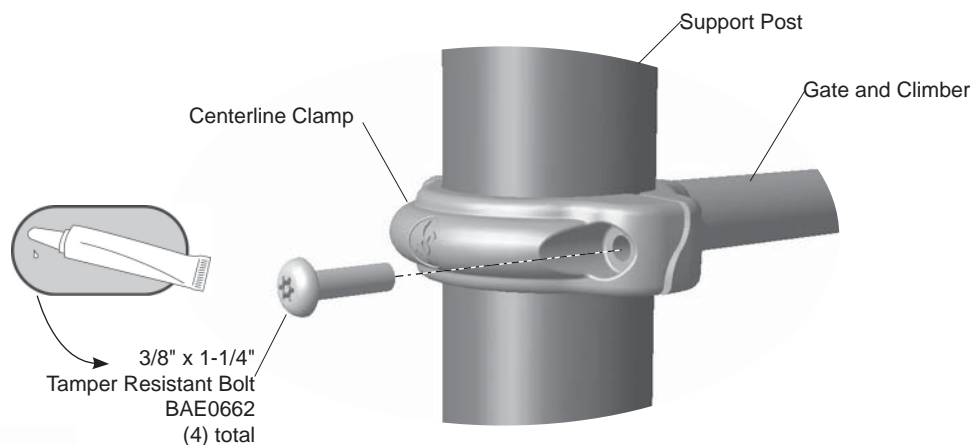
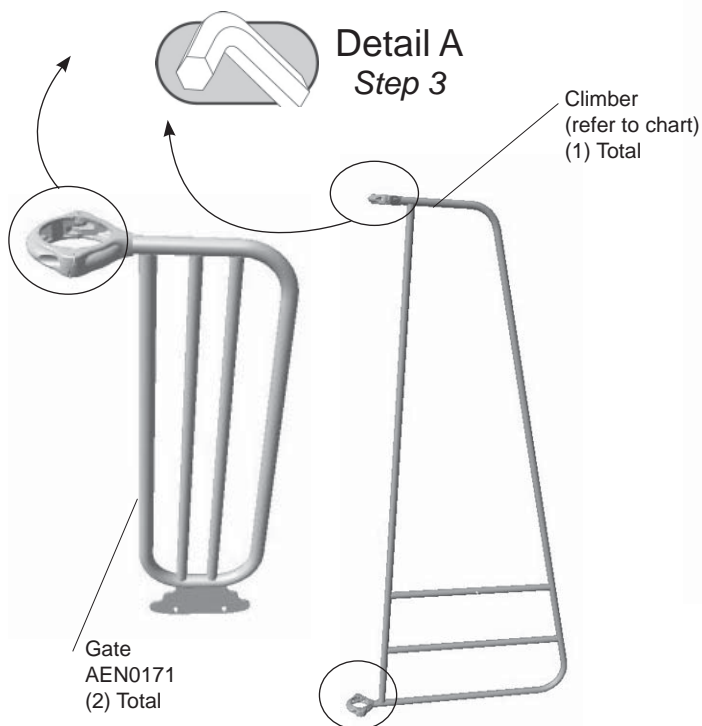
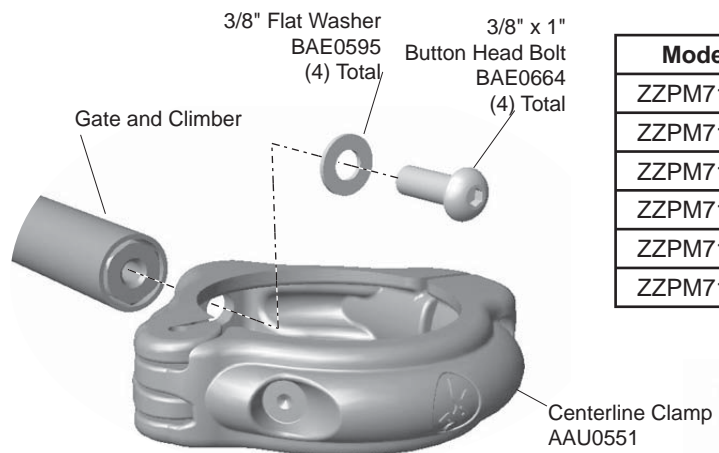


Elevation Views 72" (1829 mm) Deck Height

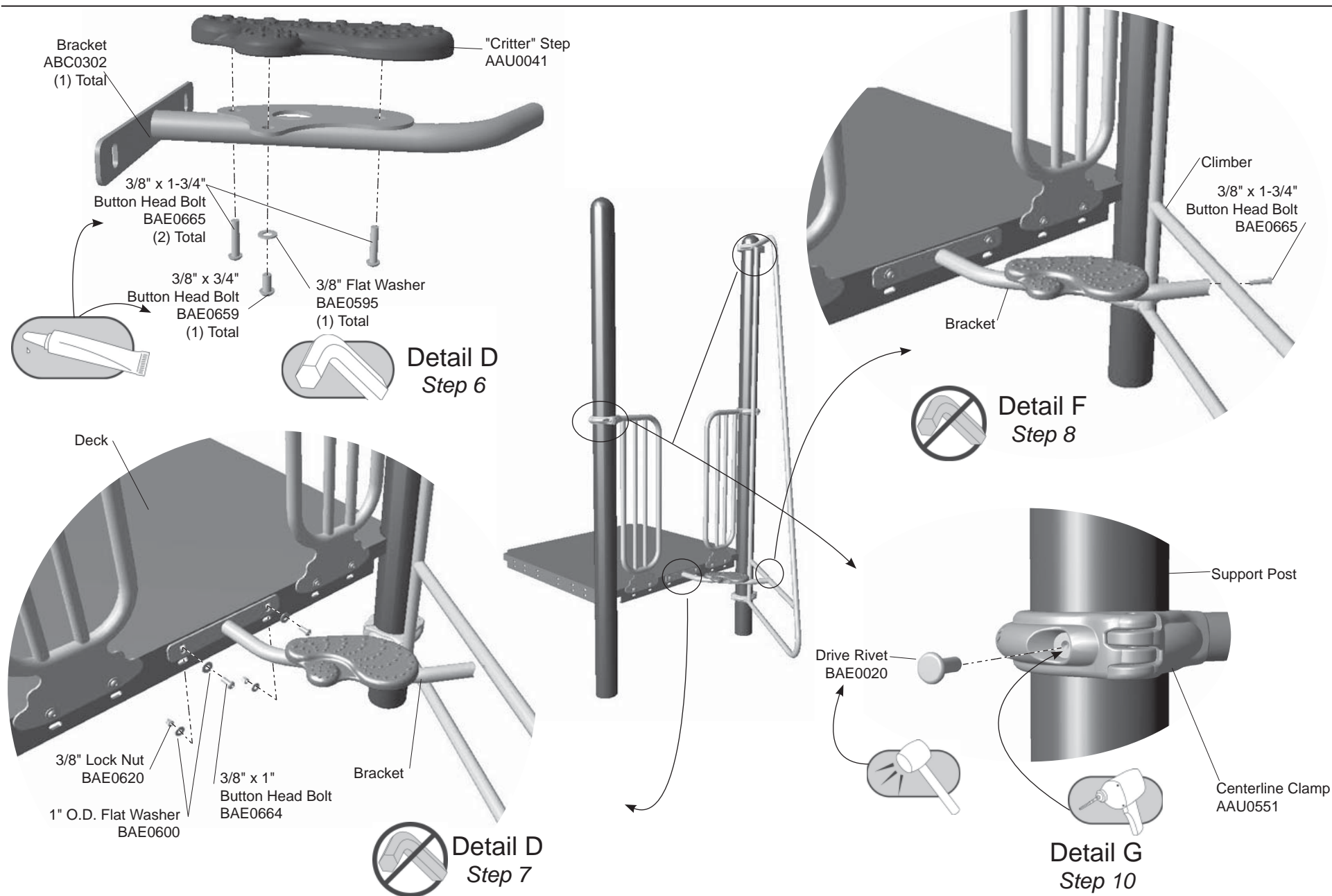
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

Model	Climber
ZZPM7178	ACL0178
ZZPM7179	ACL0179
ZZPM7180	ACL0180
ZZPM7189	ACL0181
ZZPM7190	ACL0182
ZZPM7196	ACL0183



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Determine the location of the climber by referring to the master site layout drawing.

Attach the clamps to the gates and the Angled Climber.

Step 3: See **Detail A**. Attach as shown to both gates and the top and bottom of the climber. Fully tighten the connections.

Attach the gates and the climber to the support posts.

Step 4: See **Detail B**. Turn the gate clamps so that the hinges will be facing the deck. As you face the deck, the climber will be attached to the post on the right. Apply a drop of loctite to the bolt threads and attach as shown. Leave connections loose.

Attach the gates to the deck.

Step 5: See **Detail C**. Align the lower gate tab with either the upper, or lower, holes in the deck. Both gates should be mounted at the same height if possible. Attach as shown.

Attach the step to the bracket.

Step 6: See **Detail D**. Place the step on the bracket plate and align. Apply a drop of loctite to the bolt threads. Attach as shown. Fully tighten the connections.

Attach the bracket to the deck.

Step 7: See **Detail E**. Align the bracket plate with the upper set of holes in the center of the deck. Attach as shown.

Note: In the event of clamp interference with an adjacent component, the bracket may be mounted to the lower set of holes in the deck.

Attach the climber to the bracket

Step 8: See **Detail F**. Swing the climber around and align the hole in the center of the top rung with the bracket end. Attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM7178 - ANGLED CLIMBER SMALL - 24 in. (610 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0178	CLIMBER - 96" w/2 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7180 - ANGLED CLIMBER SMALL - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0180	CLIMBER - 96" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7179 - ANGLED CLIMBER SMALL - 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0179	CLIMBER - 96" w/3 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7189 - ANGLED CLIMBER LARGE - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0181	CLIMBER - 120" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7190 - ANGLED CLIMBER LARGE - 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0182	CLIMBER - 120" w/5 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

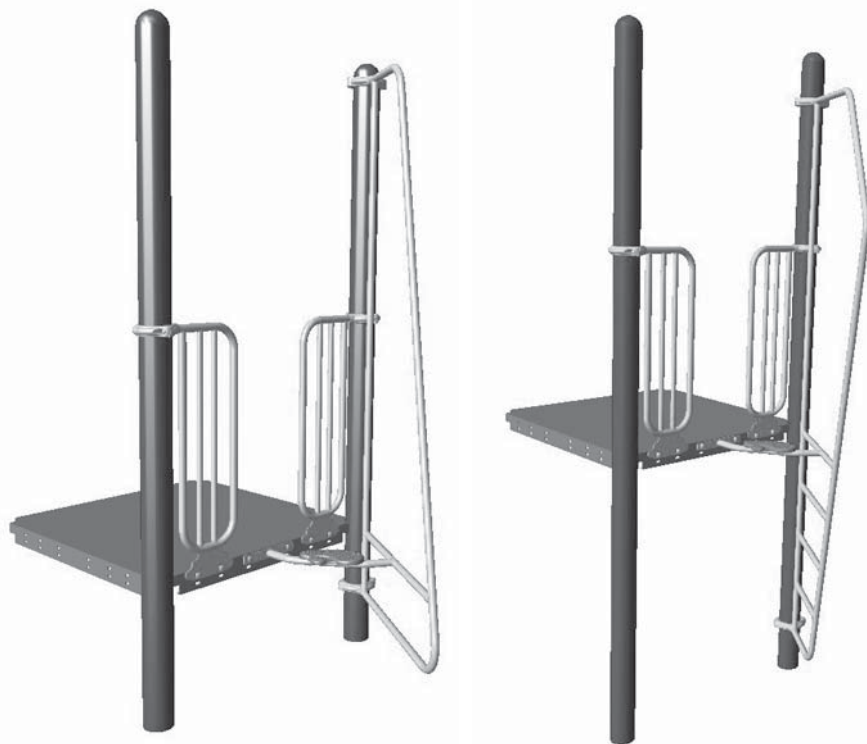
PM7196 - ANGLED CLIMBER LARGE - 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0183	CLIMBER - 120" w/6 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM7178	24" (610 mm)	70.1 lbs. (31,9 kg)
ZZPM7179	36" (915 mm)	73 lbs. (33,2 kg)
ZZPM7180	48" (1220 mm)	74.3 lbs. (33,8 kg)
ZZPM7189	48" (1220 mm)	76.5 lbs. (34,8 kg)
ZZPM7190	60" (1524 mm)	79 lbs. (35,9 kg)
ZZPM7196	72" (1829 mm)	81.3 lbs. (37 kg)

Installation Instructions

Playmakers® Models PM7178, PM7179, PM7180,
PM7189, PM7190, & PM7196

24 in. (610 mm), 36 in. (914 mm), and 48 in. (1219 mm)

Small Angled Climber

48 in. (1219 mm) , 60 in. (1524 mm), and 72 in. (1829 mm)

Large Angled Climber

Installation Preparation

Recommended Crew: Two (2) adults

Installation Time: 2 man-hours

Weight: (refer to table)

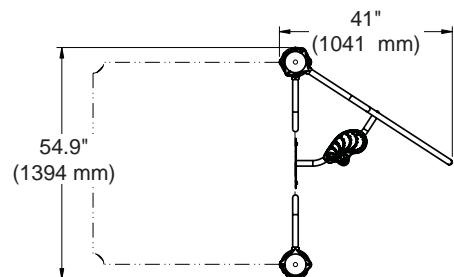
Use Zone:..... Refer to Master Drawing

User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

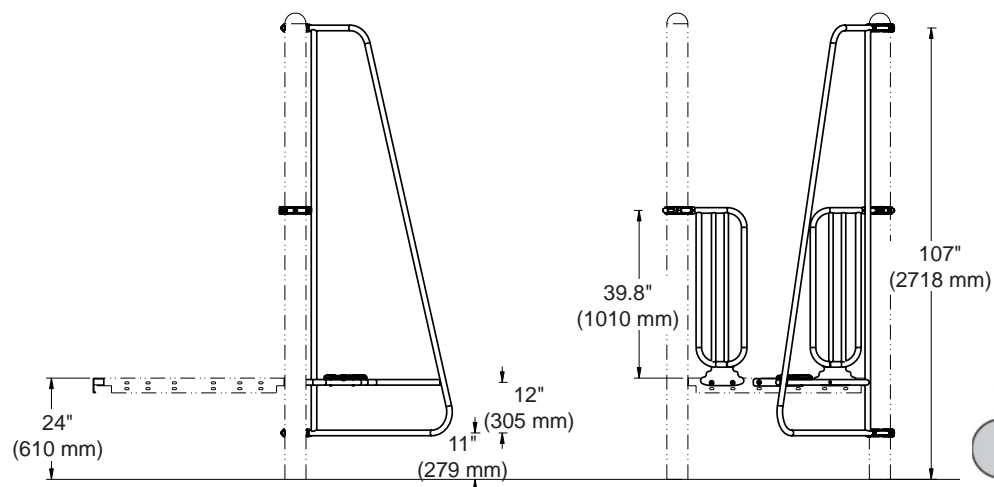
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

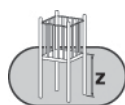
Installation Instructions



Top View

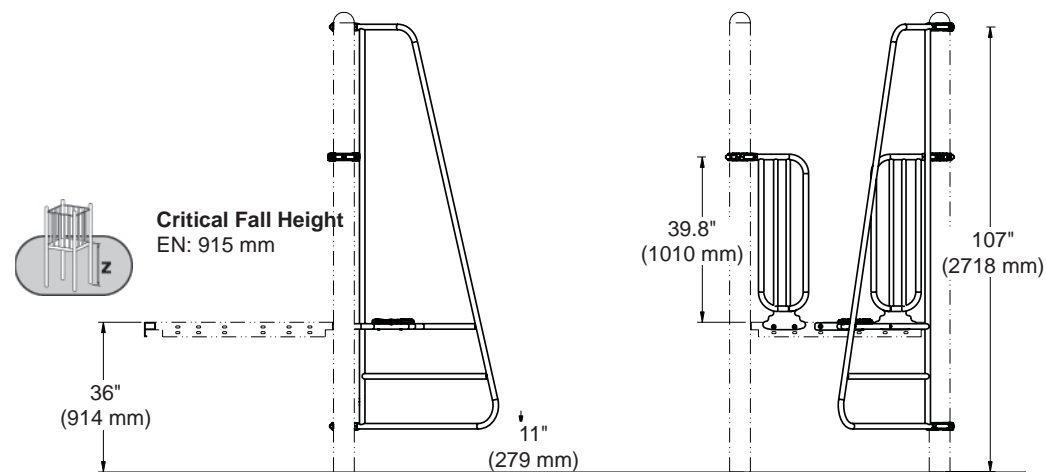


Elevation Views
24" (610 mm) Deck Height

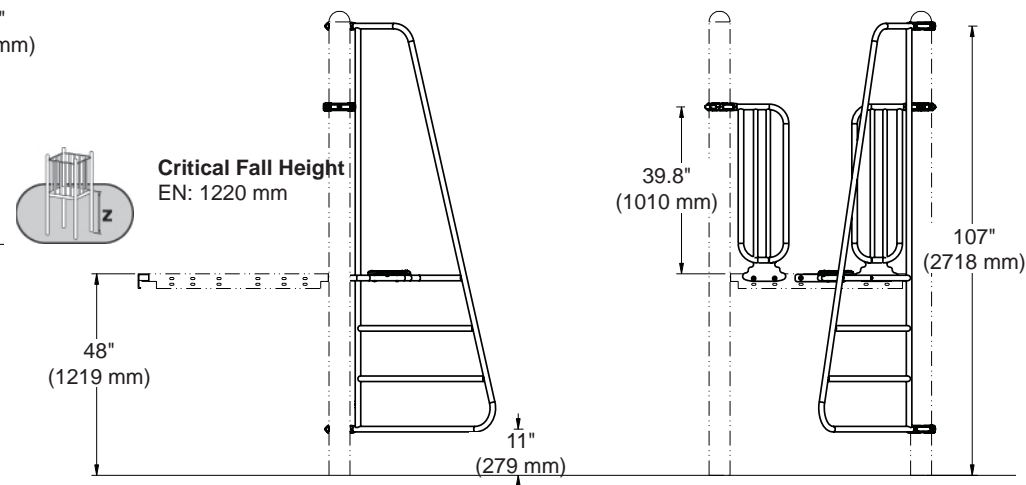


Critical Fall Height
EN: 610 mm

Small Angled Climbers

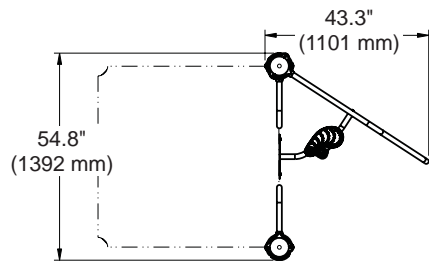


Elevation Views 36" (914 mm) Deck Height

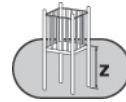


Elevation Views 48" (1219 mm) Deck Height

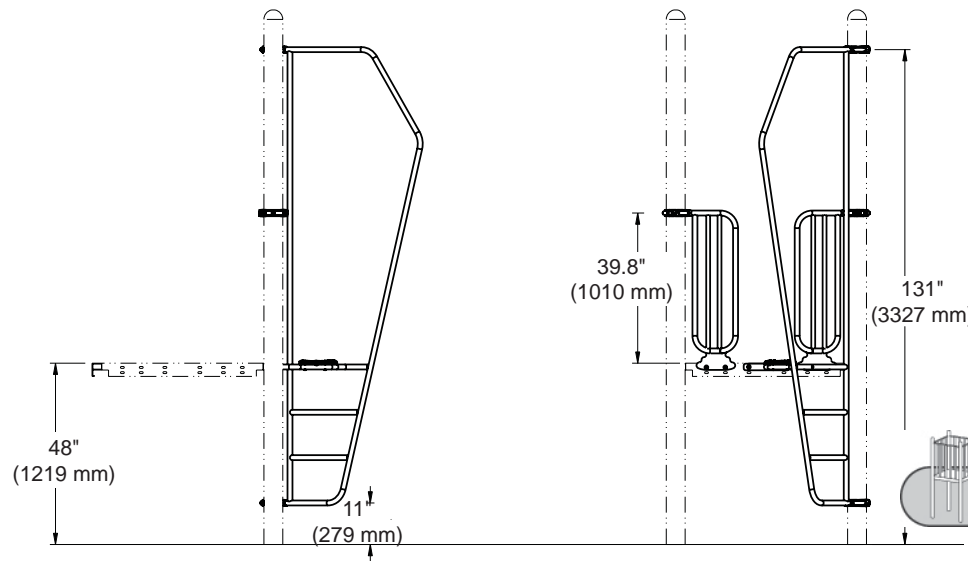
Installation Instructions



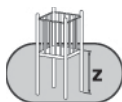
Top View



Critical Fall Height
EN: 1524 mm

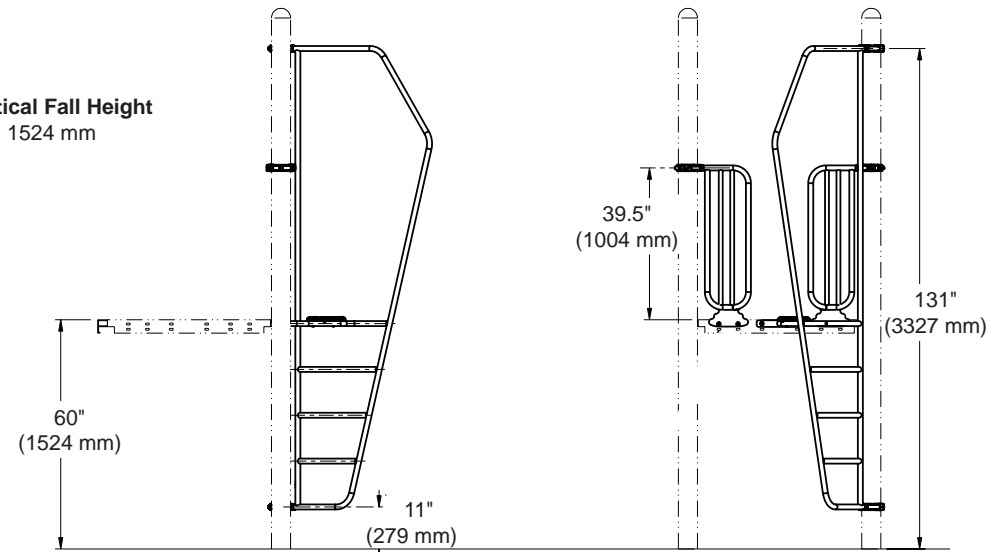


Elevation Views
48" (1219 mm) Deck Height

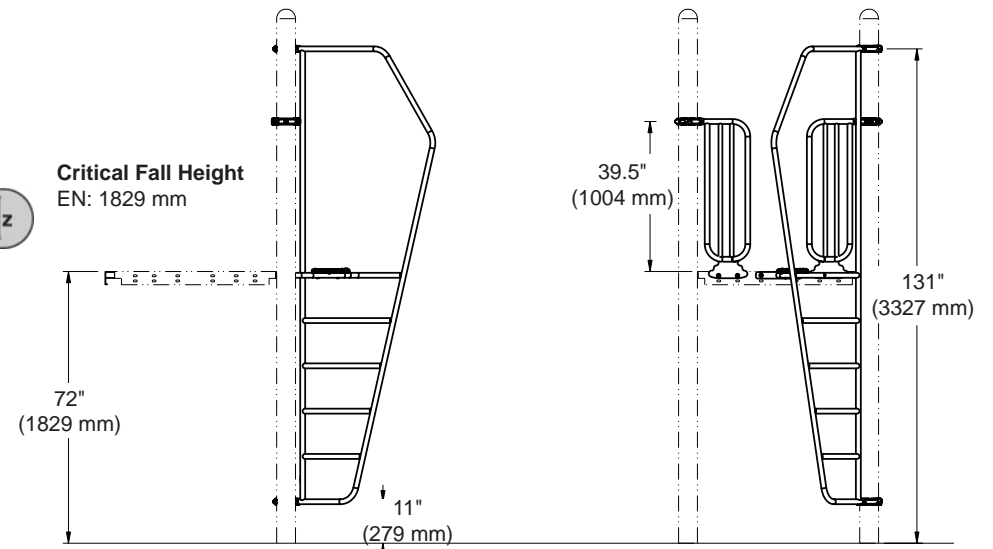


Critical Fall Height
EN: 1219 mm

Large Angled Climbers



Elevation Views 60" (1524 mm) Deck Height

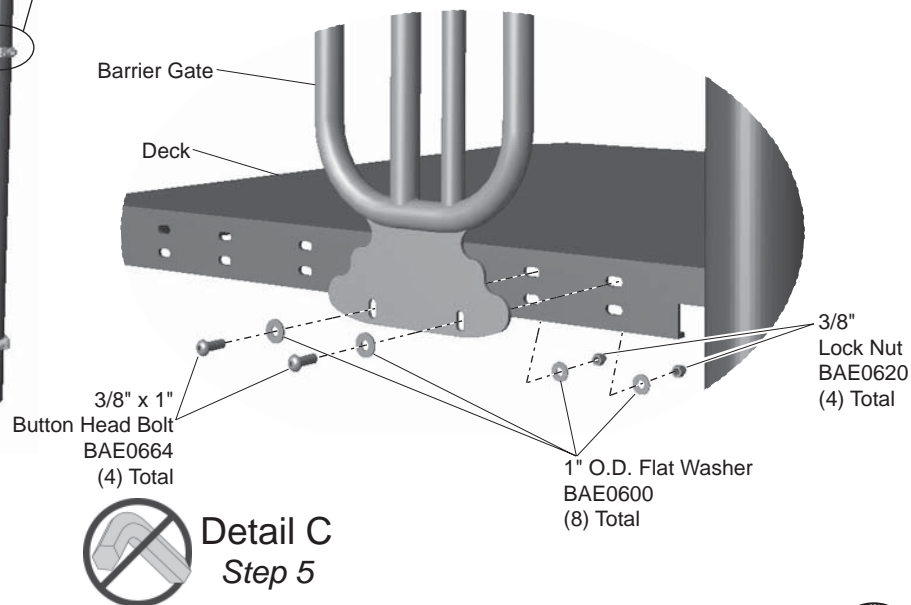
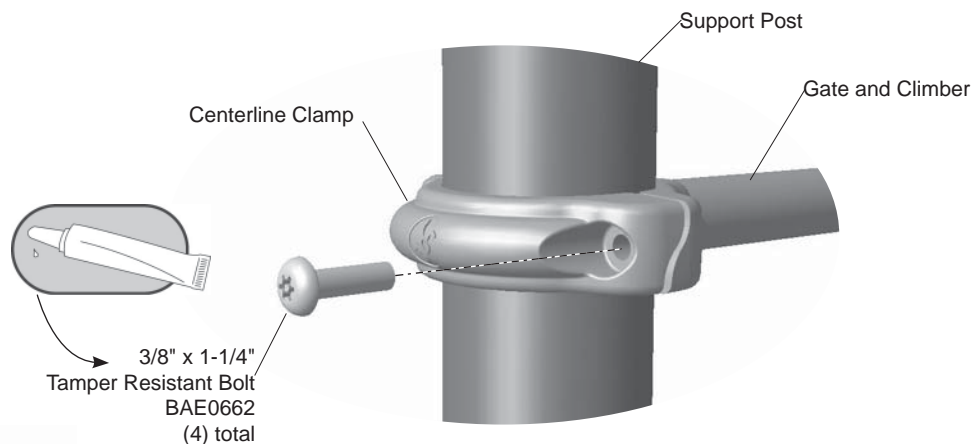
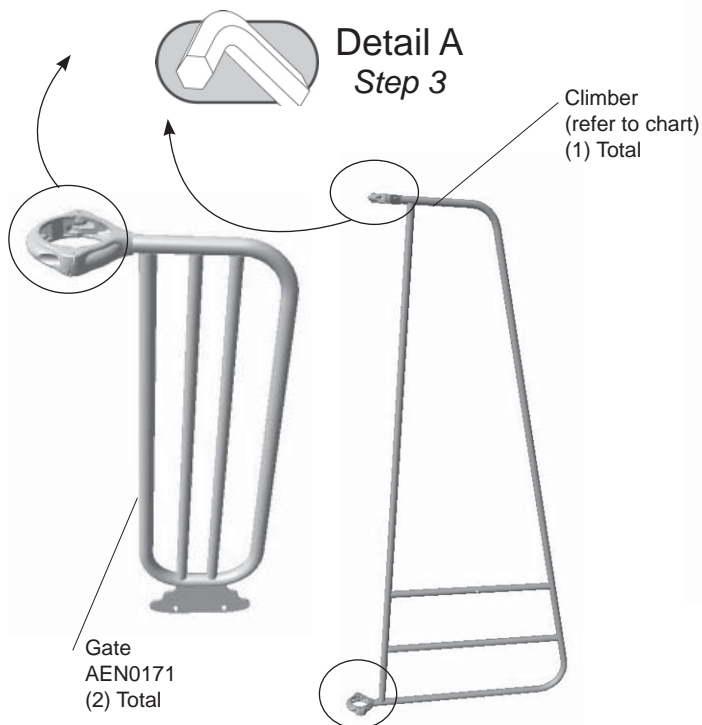
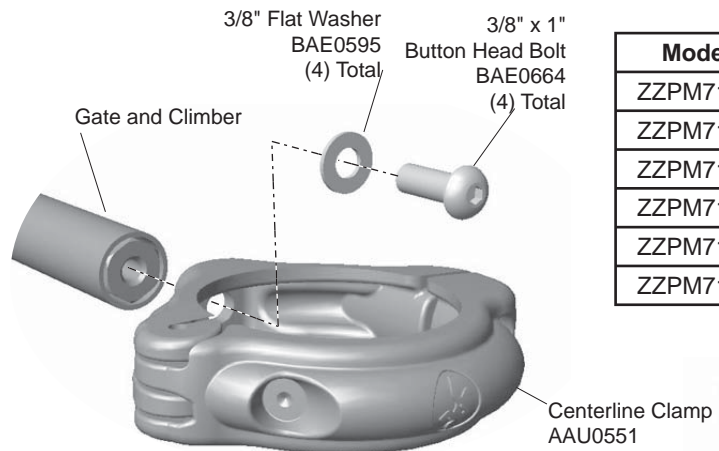


Elevation Views 72" (1829 mm) Deck Height

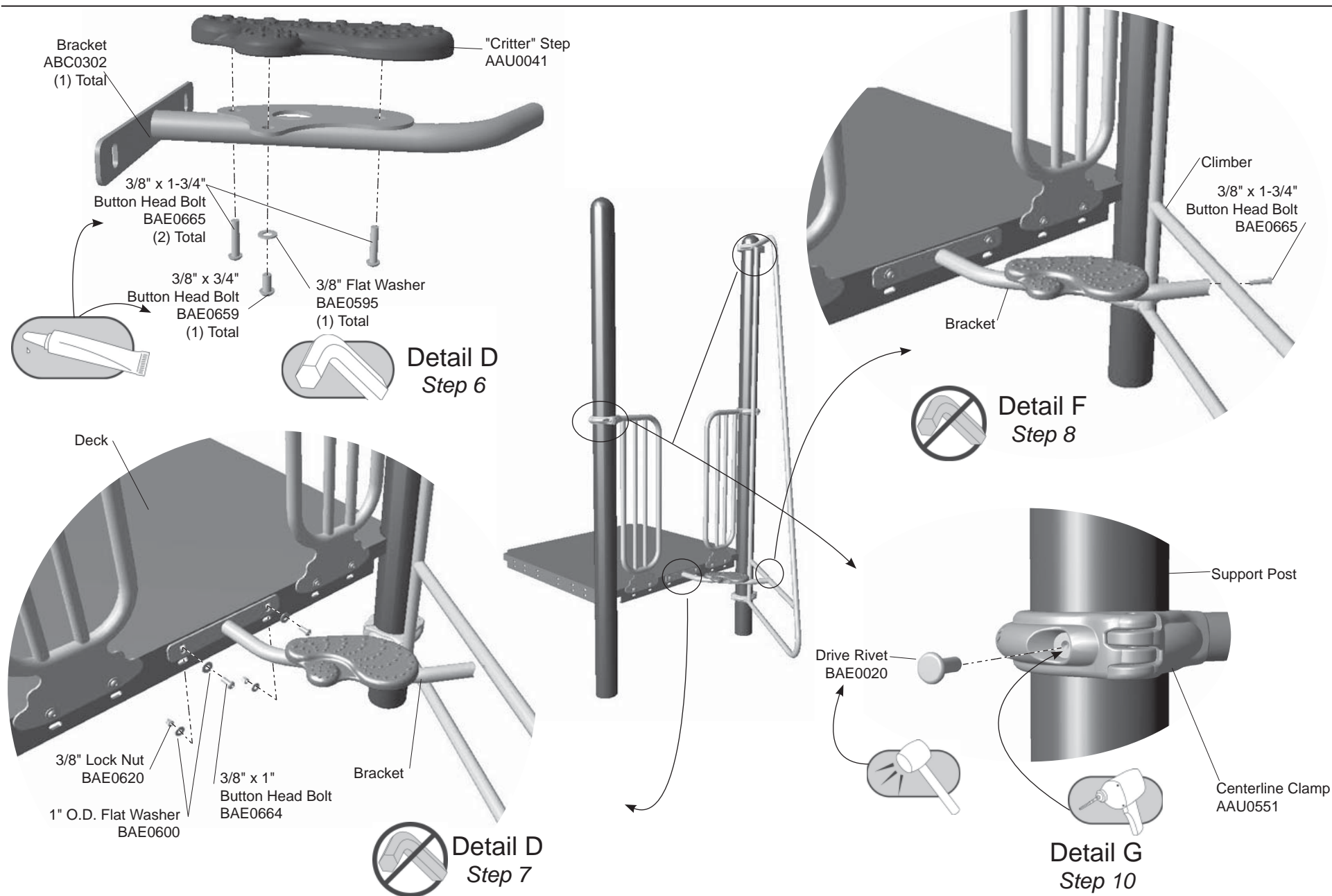
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

Model	Climber
ZZPM7178	ACL0178
ZZPM7179	ACL0179
ZZPM7180	ACL0180
ZZPM7189	ACL0181
ZZPM7190	ACL0182
ZZPM7196	ACL0183



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Determine the location of the climber by referring to the master site layout drawing.

Attach the clamps to the gates and the Angled Climber.

Step 3: See **Detail A**. Attach as shown to both gates and the top and bottom of the climber. Fully tighten the connections.

Attach the gates and the climber to the support posts.

Step 4: See **Detail B**. Turn the gate clamps so that the hinges will be facing the deck. As you face the deck, the climber will be attached to the post on the right. Apply a drop of loctite to the bolt threads and attach as shown. Leave connections loose.

Attach the gates to the deck.

Step 5: See **Detail C**. Align the lower gate tab with either the upper, or lower, holes in the deck. Both gates should be mounted at the same height if possible. Attach as shown.

Attach the step to the bracket.

Step 6: See **Detail D**. Place the step on the bracket plate and align. Apply a drop of loctite to the bolt threads. Attach as shown. Fully tighten the connections.

Attach the bracket to the deck.

Step 7: See **Detail E**. Align the bracket plate with the upper set of holes in the center of the deck. Attach as shown.

Note: In the event of clamp interference with an adjacent component, the bracket may be mounted to the lower set of holes in the deck.

Attach the climber to the bracket

Step 8: See **Detail F**. Swing the climber around and align the hole in the center of the top rung with the bracket end. Attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM7178 - ANGLED CLIMBER SMALL - 24 in. (610 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0178	CLIMBER - 96" w/2 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7180 - ANGLED CLIMBER SMALL - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0180	CLIMBER - 96" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7179 - ANGLED CLIMBER SMALL - 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0179	CLIMBER - 96" w/3 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7189 - ANGLED CLIMBER LARGE - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0181	CLIMBER - 120" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7190 - ANGLED CLIMBER LARGE - 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0182	CLIMBER - 120" w/5 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7196 - ANGLED CLIMBER LARGE - 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0183	CLIMBER - 120" w/6 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM8100	36" (915 mm)	81.4 lbs. (37 kg)
ZZPM8110	48" (1220 mm)	89.1 lbs. (40,5 kg)
ZZPM8120	60" (1525 mm)	97.2 lbs. (44,2 kg)
ZZPM8130	72" (1830 mm)	104.3 lbs. (47,4 kg)

Installation Instructions

Playmakers® Models PM8100-PM8130

Beanstalk Climber

36 in. (914 mm) to 72 in. (1829 mm) decks

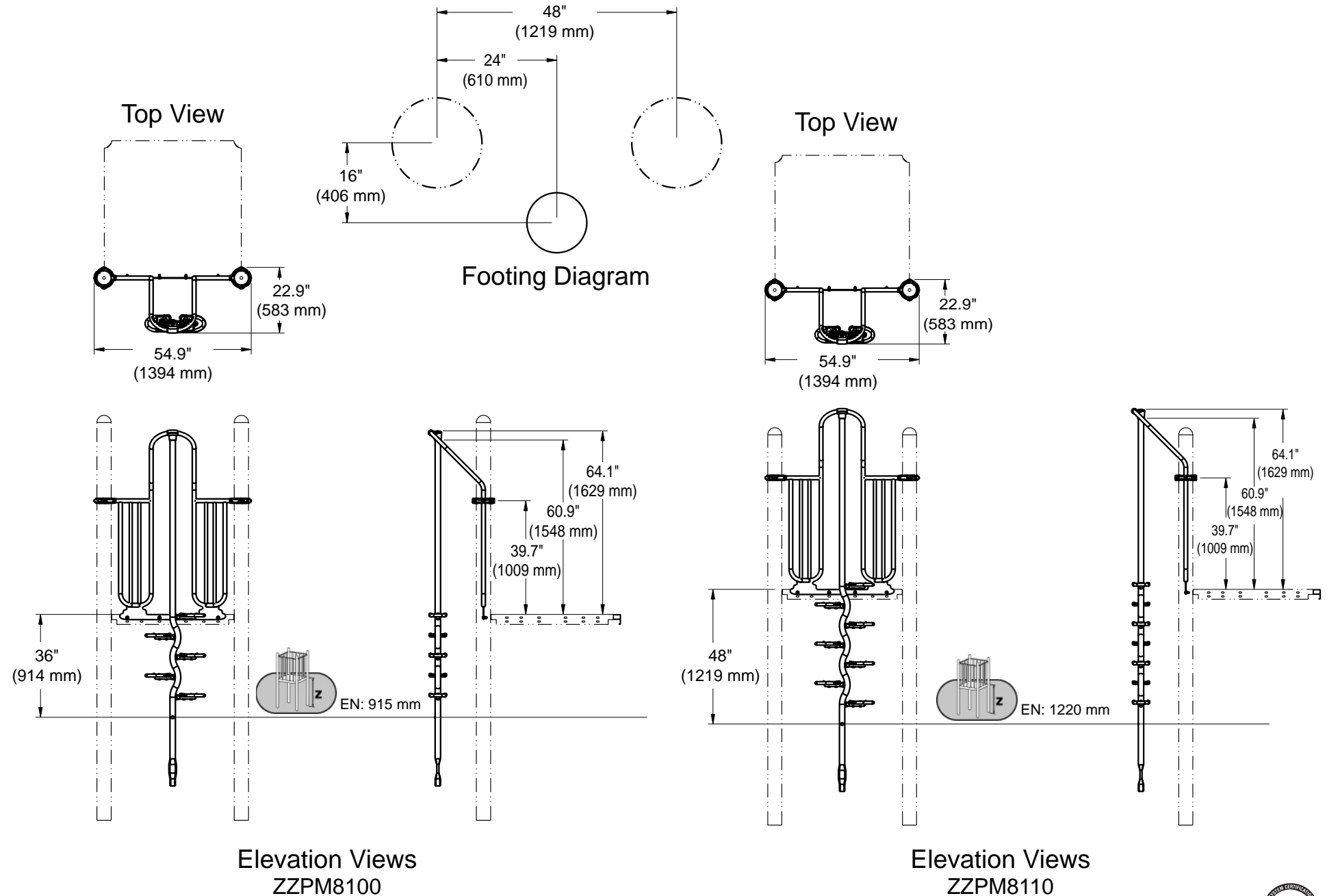
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: (refer to table)
 Concrete Required: 0.3 cubic yard (0,2 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

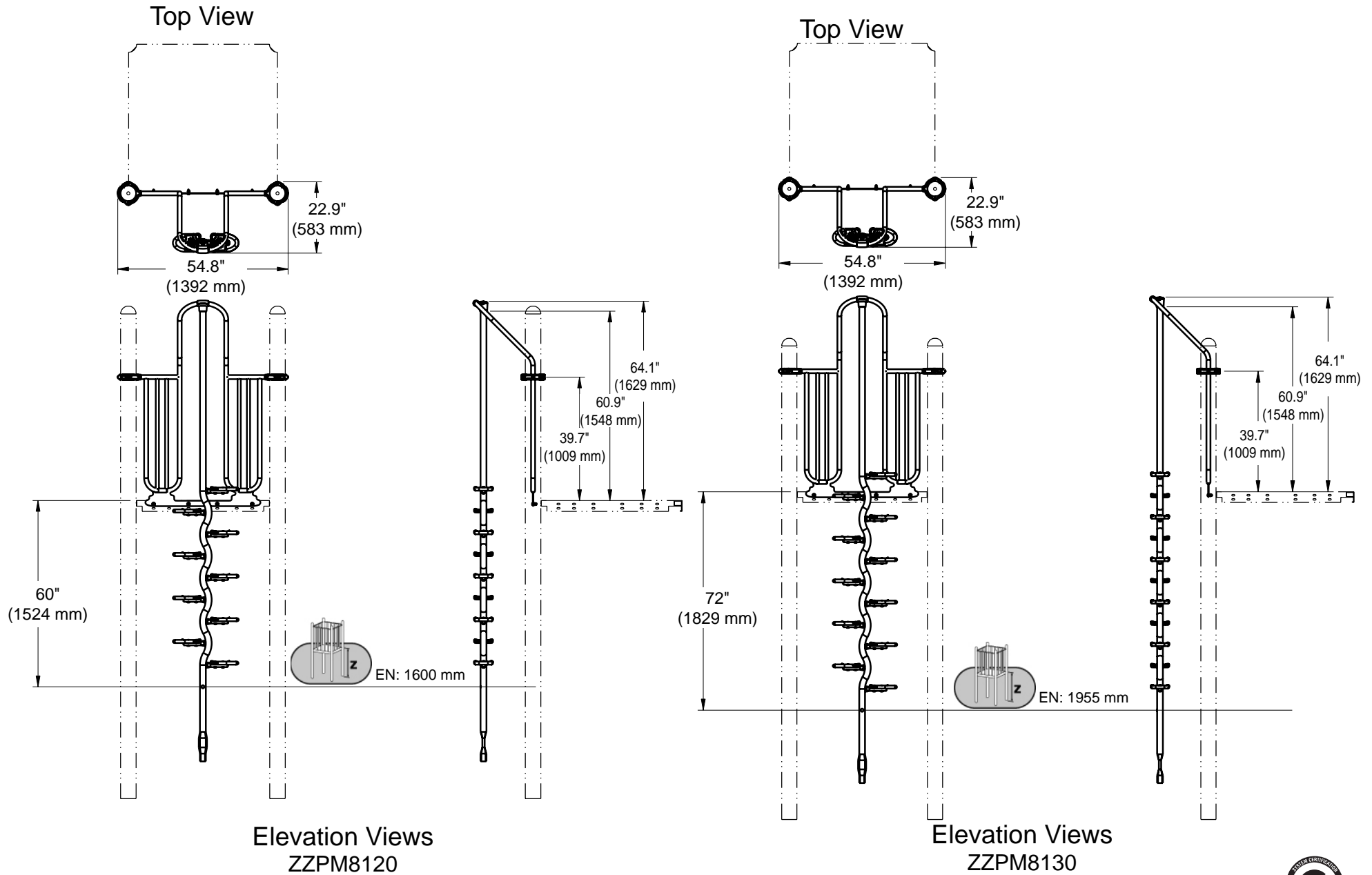
ICON KEY

	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

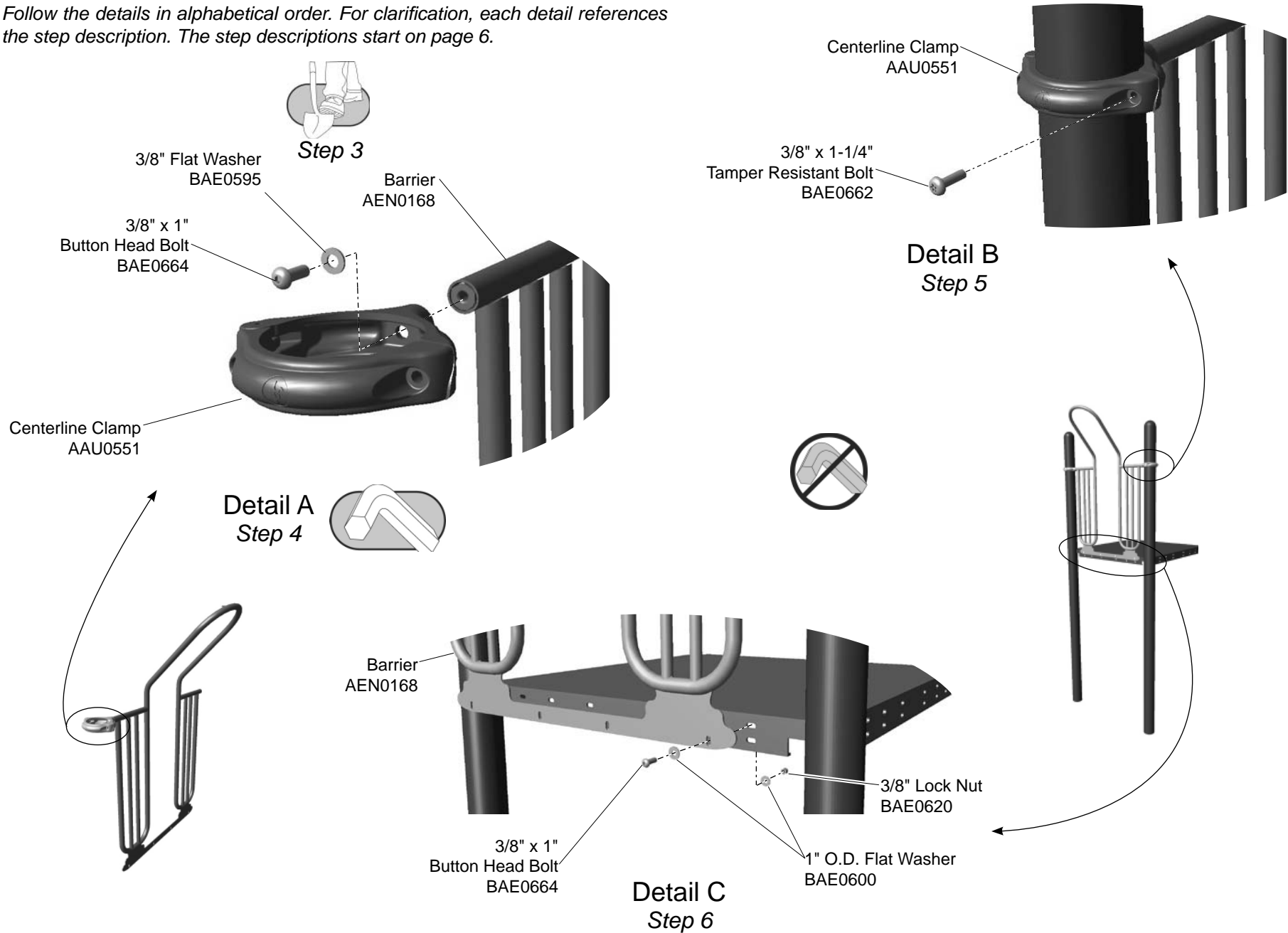


Installation Instructions

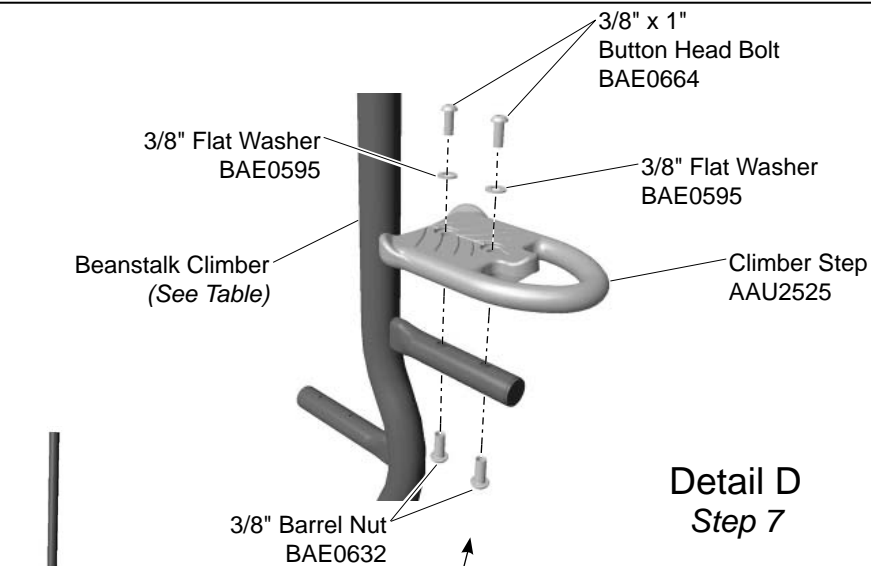


Installation Instructions

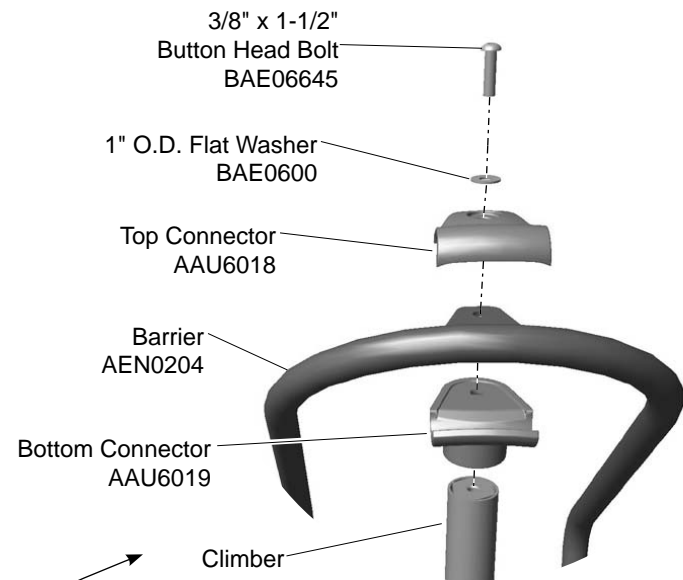
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



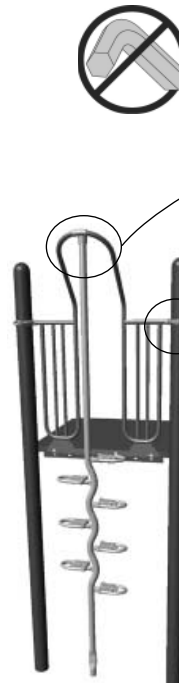
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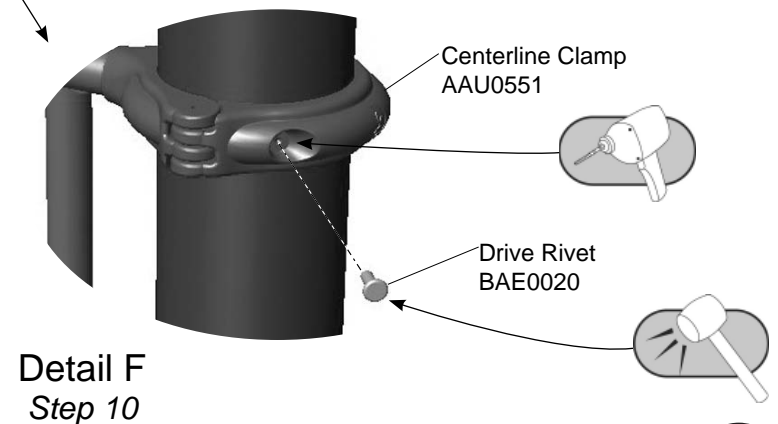
Detail D
Step 7



Detail E
Step 8



Step 9



Detail F
Step 10

Climber Deck Height	Climber Part Number	Number Of Step/Handles
36 in. (914 mm)	ACL0047	5
48 in. (1219 mm)	ACL0048	7
60 in. (1524 mm)	ACL0049	9
72 in. (1829 mm)	ACL0050	11

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only *snug tighten* them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Footing Details**.

Attach the centerline clamps to the arch entry barrier.

Step 4: Attach the centerline clamps to the arch entry barrier. See **Detail A**. Select the arch entry barrier, (2) two clamps, and the appropriate hardware. Position the socket of the clamp over the threaded portion of the barrier top rail, make and fully tighten connections as shown. Ensure the clamps face the same direction.

Attach the centerline clamps to the support posts.

Step 5: Attach the clamps to the support posts. See **Detail B**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Lift the barrier into position against deck, close the clamps around the posts and attach as shown.

Attach the barrier to the deck.

Step 6: Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. The arch entry barrier can be attached to either *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Select the desired set of holes and attach as shown.

Attach the step/handle to the climber.

Step 7: Attach the step/handle to the climber. See **Detail D**. Select the climber weldment, the appropriate *number* of step/handles (*see the table on the detail page*), and the appropriate amount of hardware. There are **(2) two** connections per step. Position each step onto a climber branch and attach as shown.

Attach the climber to the barrier.

Step 8: Attach the climber to the barrier. See **Detail E**. Select the climber assembly, the top and bottom climber connectors, and the appropriate hardware. Slide the climber into the bottom of the lower connector. Place the climber into the excavated footing. Sandwich the barrier tab and rail with the top and bottom climber connectors and attach as shown.

Important Note: When tightening the climber bolt, insure that the climber is parallel to the deck as shown in **Elevation Views**.

Final Details.

Step 9: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Step 10: Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

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ZZPM8100 - 36 in. (914 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	5
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0047	CLIMBER - 36" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8110 - 48 in. (1219 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	7
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0048	CLIMBER - 48" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8120 - 60 in. (1524 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	9
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0049	CLIMBER - 60" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	18
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8130 - 72 in. (1829mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	11
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0050	CLIMBER - 72" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	28
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



Assembly View (representative model)

Installation Instructions

Universal

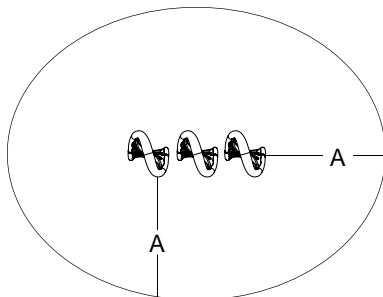
Models UN6736-UN6740

Whirlwind

24 in. (610 mm) to 72 in. (1829 mm)

Installation Preparation




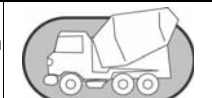
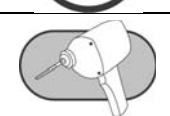

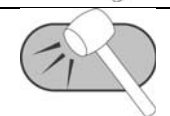
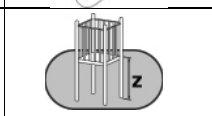
Recommended Crew: Two (2) adults
 Installation Time: 0.25 hour per section
 1 hour per footing
 Concrete Required: 0.23 cubic yard (0,18 cubic meters)
 Use Zone: Refer to the Use Zone Diagram
 User Age Group: ASTM/CSA: 5-12, EN: 6-14



Stationary Play Equipment Use Zone

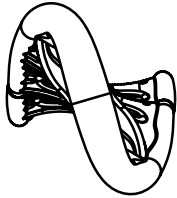
A Whirlwind Use Zone
 ASTM: 72 in. (1829 mm)
 CSA: 1800 mm
 (EN) 1500 mm - 1715 mm
 (Refer to the elevation views pages 2-4)

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

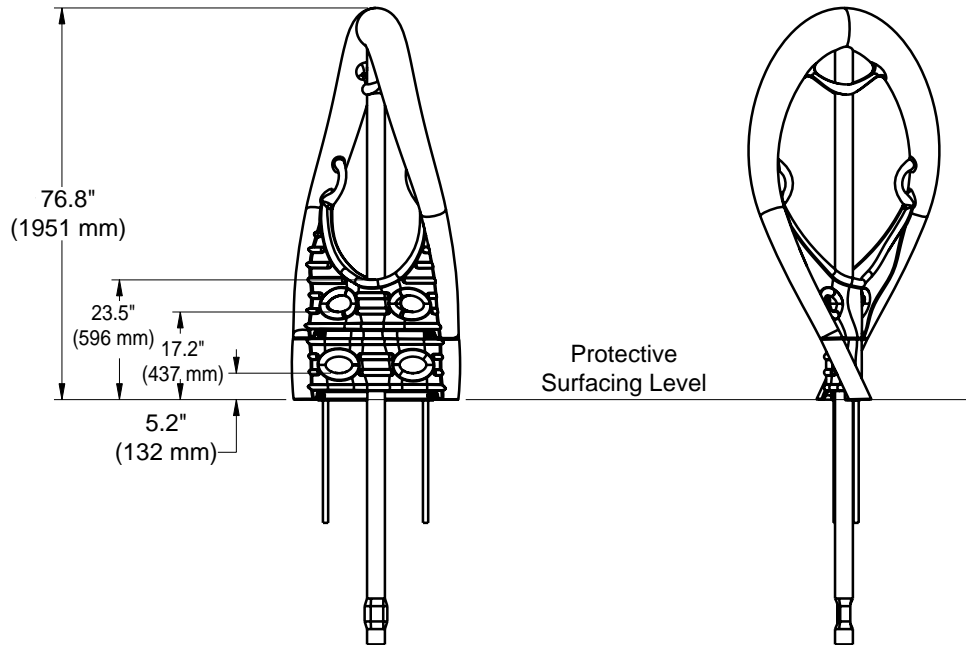
Installation Instructions

Top View

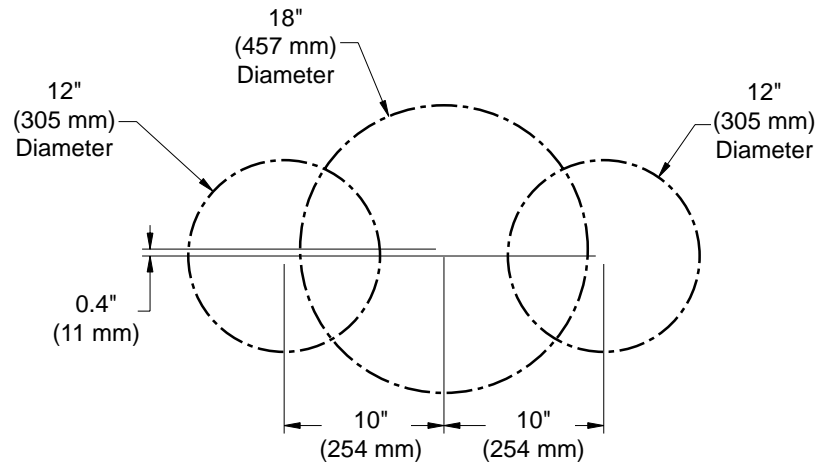


ASTM/CSA
Fall Height: 23.5"
(596 mm)

Europe Only
Fall Height: 596 mm
Use Zone: 1500 mm



Elevation View
24 in. (610 mm) Height



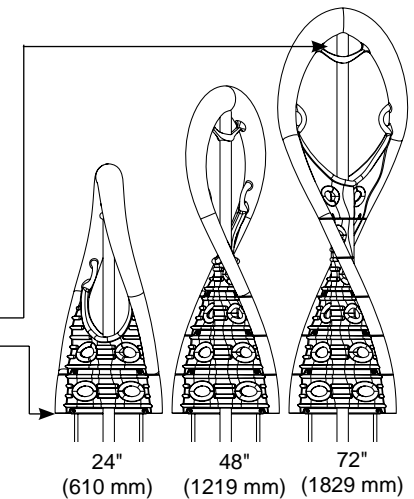
Footing Diagram
(See *Note below)

Refer to the [GroundZero Support Post Footing Detail](#) for the center post hole and the [Component Post Footing Detail](#) for the side legs. Details are in the annex at the end of this document.

***Note:** Multiple footings require a distance of 3 ft. (914 mm) from center to center and will be laid out in a straight line. Reference the master layout drawing for exact locations of the footings.

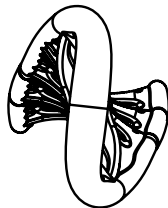
Important Note:

The tops of climbers of differing heights will NOT have the top "eye" facing the same direction. The bases must all be in a straight line.



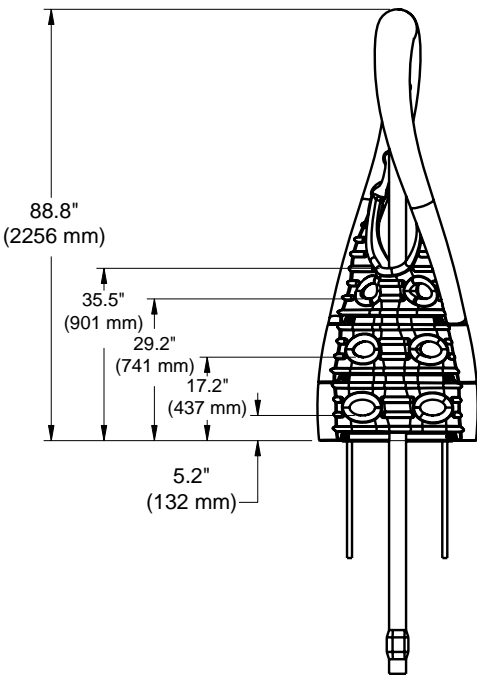
Installation Instructions

Top View



ASTM/CSA
Fall Height: 35.5"
(901 mm)

Europe Only
Fall Height: 901 mm
Use Zone: 1500 mm



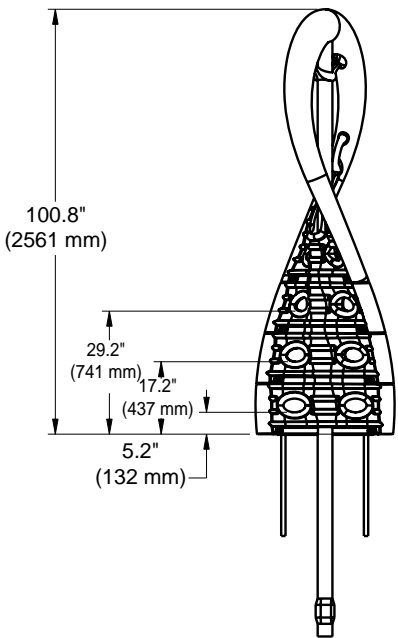
Elevation View
36 in. (914 mm) Height

Top View

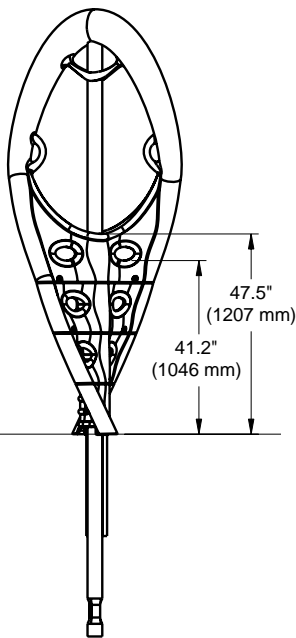


ASTM/CSA
Fall Height: 47.5"
(1207 mm)

Europe Only
Fall Height: 1207 mm
Use Zone: 1500 mm



Elevation View
48 in. (1219 mm) Height



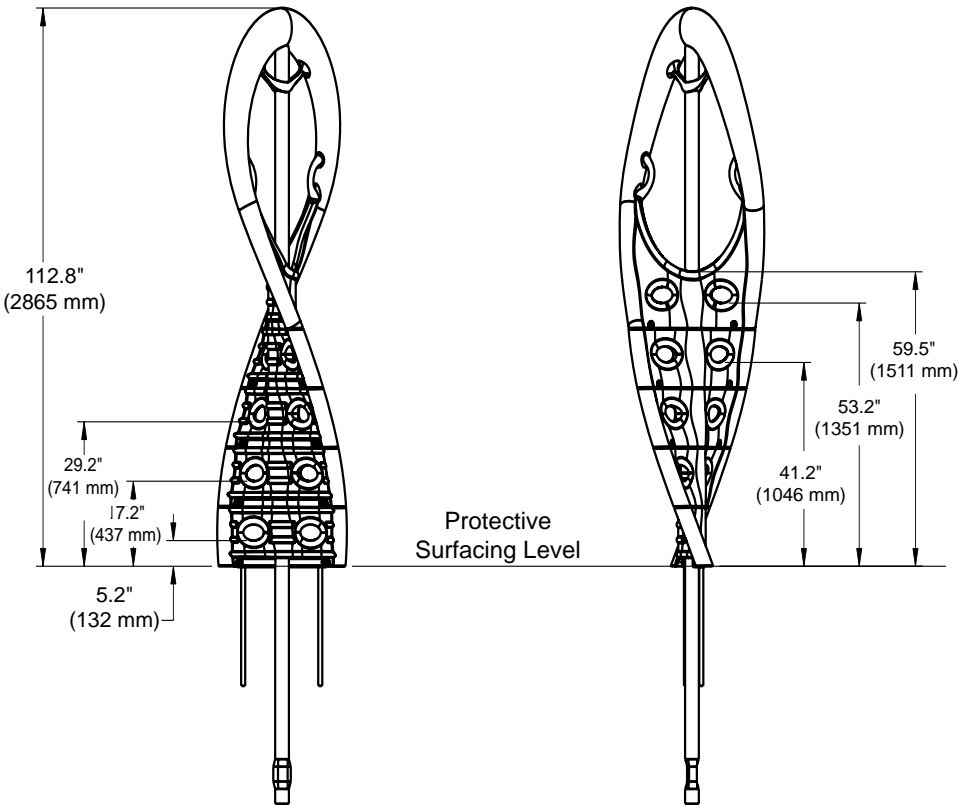
Installation Instructions

Top View



ASTM/CSA
Fall Height: 59.5"
(1511 mm)

Europe Only
Fall Height: 1511 mm
Use Zone: 1510 mm



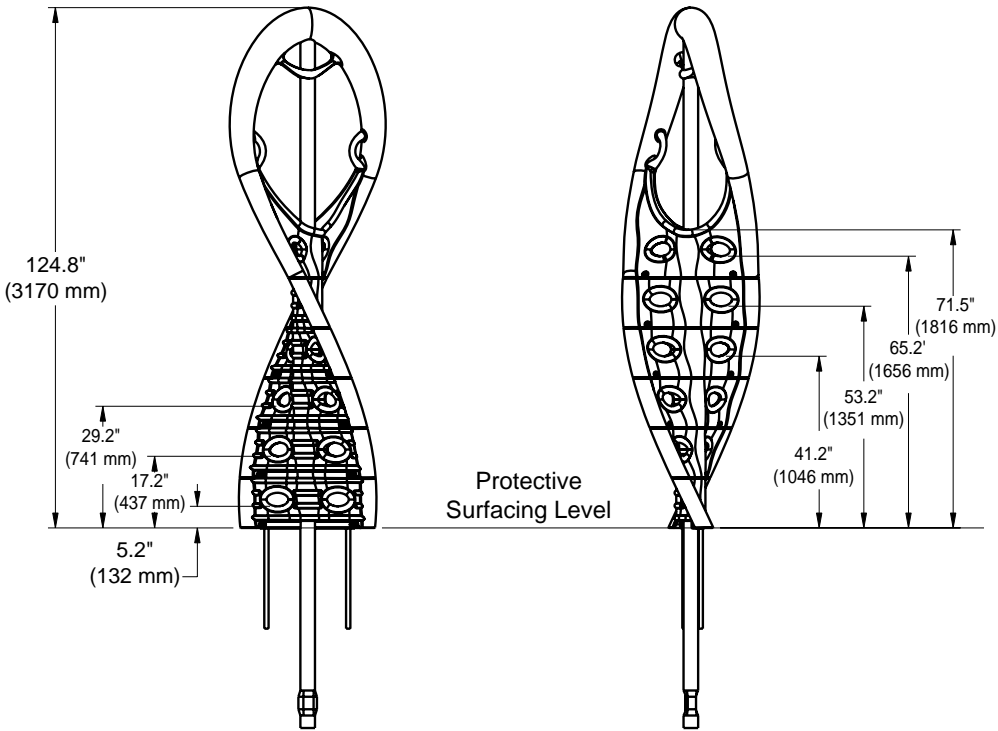
Elevation View
60 in. (1524 mm) Height

Top View



ASTM/CSA
Fall Height: 71.5"
(1816 mm)

Europe Only
Fall Height: 1816 mm
Use Zone: 1715 mm



Elevation View
72 in. (1829 mm) Height

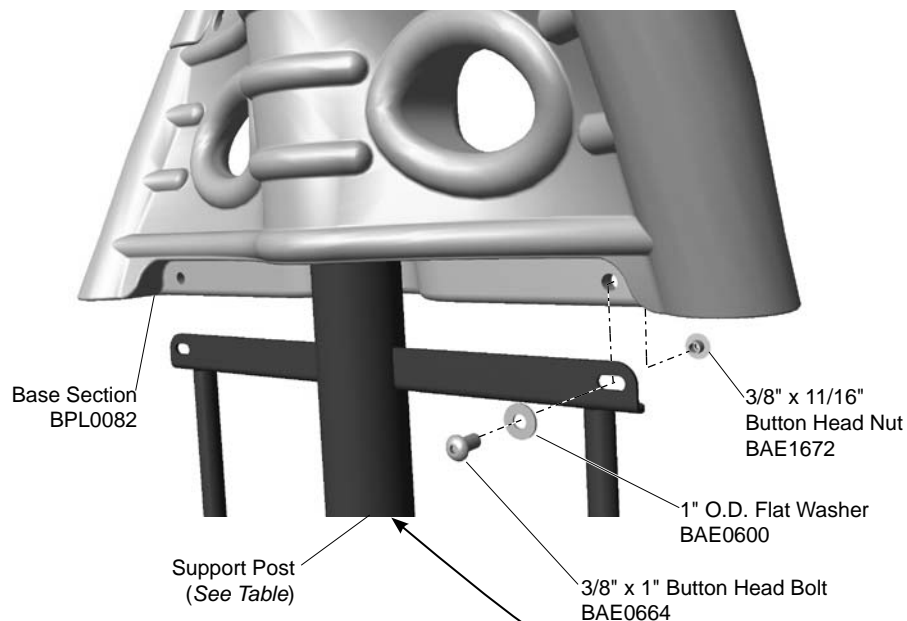


Installation Instructions

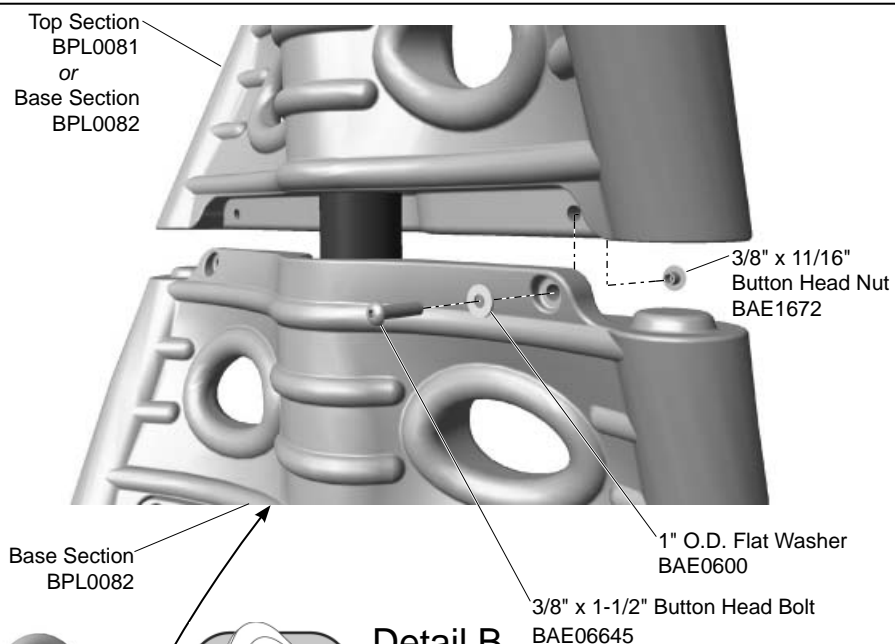
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Step 3



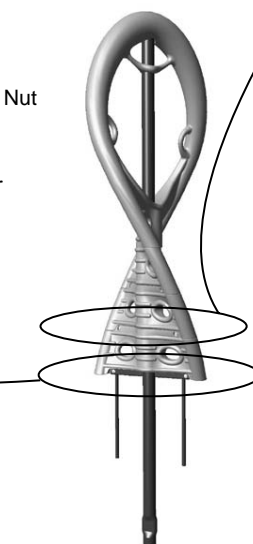
**Detail A
Step 4**



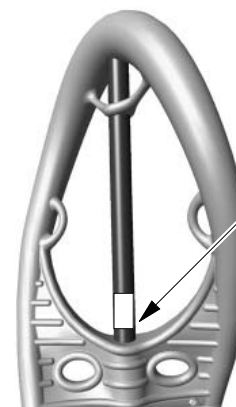
**Detail B
Step 5**



Step 7



Reference A/B



**Detail C
Step 8**

Whirlwind Model	Support Post Part Number	Number Of Base Sections
ZZUN6736	APT0447	1
ZZUN6737	APT0448	2
ZZUN6738	APT0449	3
ZZUN6739	APT0450	4
ZZUN6740	APT0451	5

Installation Instructions

A Note Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate holes as shown in the **Footing Details**. See the note below the **Footing Diagram** for information on multiple footings. Reference the master layout drawing for exact number and location of the footings. Fully assemble each climber on the ground before placing in the footing.

Attach a base section to the support post.

Note: The sections have a *ribbed* side and a *smooth* side. Match the sides as each section is added.

Step 4: Attach a base section to the support post. See **Detail A**. Select the support post, a base section, and the appropriate hardware. Slide a base section onto the support post until fully seated on the bracket at the bottom of the post. Make connections as shown. There are (2) two connections. Fully tighten the connections.

Note: If the climber contains more than one base section, follow the next step for attaching the base sections together. *See the table on page 5 for correct number of base sections per model.* If the climber contains only one base section, go to **Step 6** for attachment of the top section.

Attach another base section to the climber.

Step 5: Attach another base section to the climber. See **Detail B**. Select another base section and the appropriate hardware. Slide the next base section onto the top of the lower section and make connections as shown. There are (2) two connections. Fully tighten the connections ensuring the sections are fully seated with no gaps showing. Repeat this procedure for the remaining base sections.

Attach the top section to the climber.

Step 6: Attach the top section to the climber. See **Detail B**. Select the top section and the appropriate hardware. Slide the top section onto the top of the lower section and make connections as shown. There are (2) two connections. The top of the support post will fit into the upper portion of the top section. Fully tighten the connections ensuring the sections are fully seated.

Final Details.

Step 7: With adequate manpower, place the climber into the prepared footing. Plumb and level the entire component. Block and brace for concrete. Pour the concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Apply the Surface Warning label.

Step 8: Apply the Surfacing Warning label to the climber post at the place designated in **Detail C**. Surface must be clean and dry before applying the label. Remove back sheet from label and apply label in position. Use the back sheet to rub the label until it's smooth. Apply one label per grouping of climbers. For areas complying with ASTM and CSA, an age appropriate label should be applied to the structure at a visible location.

Bill of Materials

ZZUN6736 - 24 in. (610 mm) WHIRLWIND

PART NO.	DESCRIPTION	QTY.
APT0447	POST - 3-1/2" O.D. x 120.00" w/ BRACKET	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE0922	TOOL - TT 45 L WRENCH	2
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	4
BPL0081	CLIMBER - TWISTING TOP	1
BPL0082	CLIMBER - TWISTING BASE	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

ZZUN6737 - 36 in. (914 mm) WHIRLWIND

PART NO.	DESCRIPTION	QTY.
APT0448	POST - 3-1/2" O.D. x 132.00" w/ BRACKET	1
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	2
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	6
BPL0081	CLIMBER - TWISTING TOP	1
BPL0082	CLIMBER - TWISTING BASE	2
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

ZZUN6738 - 48 in. (1219 mm) WHIRLWIND

PART NO.	DESCRIPTION	QTY.
APT0449	POST - 3-1/2" O.D. x 144.00" w/ BRACKET	1
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	6
BAE0922	TOOL - TT 45 L WRENCH	2
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPL0081	CLIMBER - TWISTING TOP	1
BPL0082	CLIMBER - TWISTING BASE	3
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

ZZUN6739 - 60 in. (15241mm) WHIRLWIND

PART NO.	DESCRIPTION	QTY.
APT0450	POST - 3-1/2" O.D. x 156.00" w/ BRACKET	1
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BPL0081	CLIMBER - TWISTING TOP	1
BPL0082	CLIMBER - TWISTING BASE	4
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

ZZUN6740 - 72 in. (18291mm) WHIRLWIND

PART NO.	DESCRIPTION	QTY.
APT0451	POST - 3-1/2" O.D. x 168.00" w/ BRACKET	1
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	10
BAE0922	TOOL - TT 45 L WRENCH	2
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	12
BPL0081	CLIMBER - TWISTING TOP	1
BPL0082	CLIMBER - TWISTING BASE	5
ALB0025	LABEL - ASTM AGE APPROPRIATE	1



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intentionally left blank.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Fasteners

Inspect for loose fasteners. Tightening torque specifications are:

Bolts and Nuts: Snug tighten and tighten an additional one-half turn.

- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service at 1-800-233-8404 for replacement part.

Equipment Maintenance Universal Models UN6736-UN6740 Whirlwind 24 in. (610 mm) to 72 in. (1829 mm)



INSPECTION FORM

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

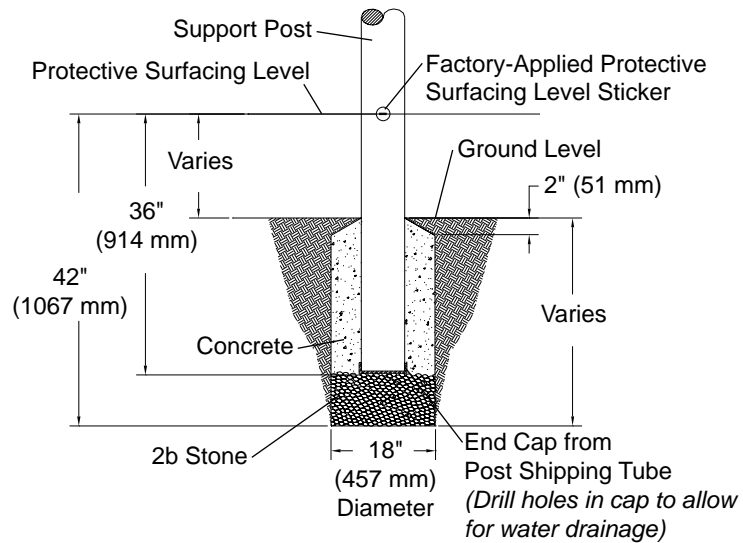
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must to be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

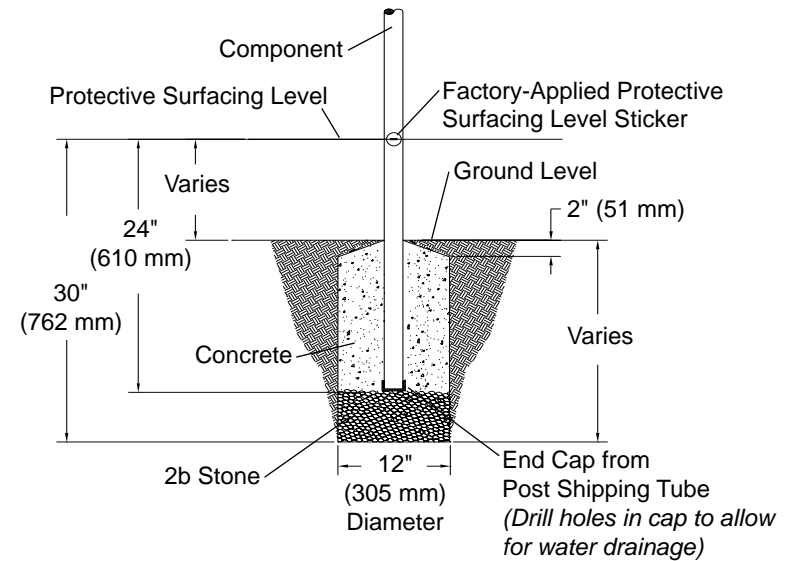
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

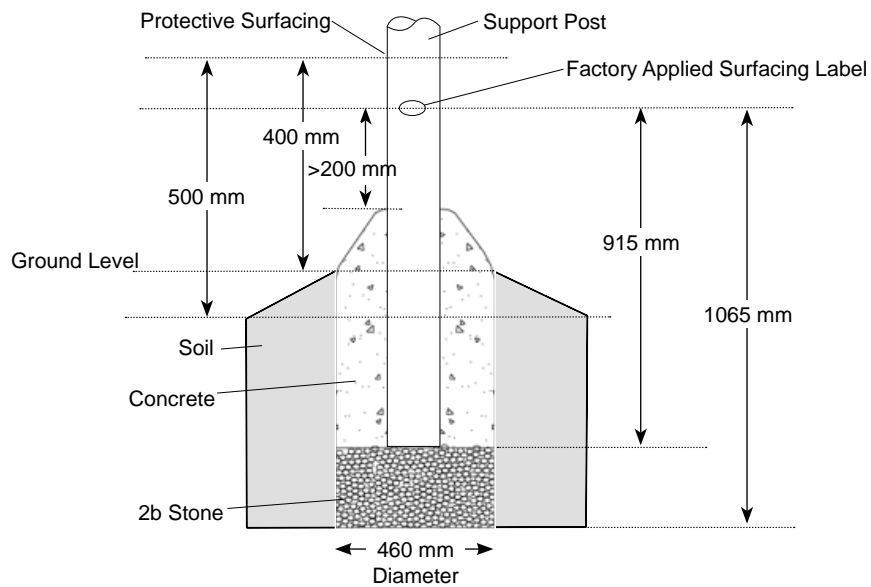
Footings Details (in ground)



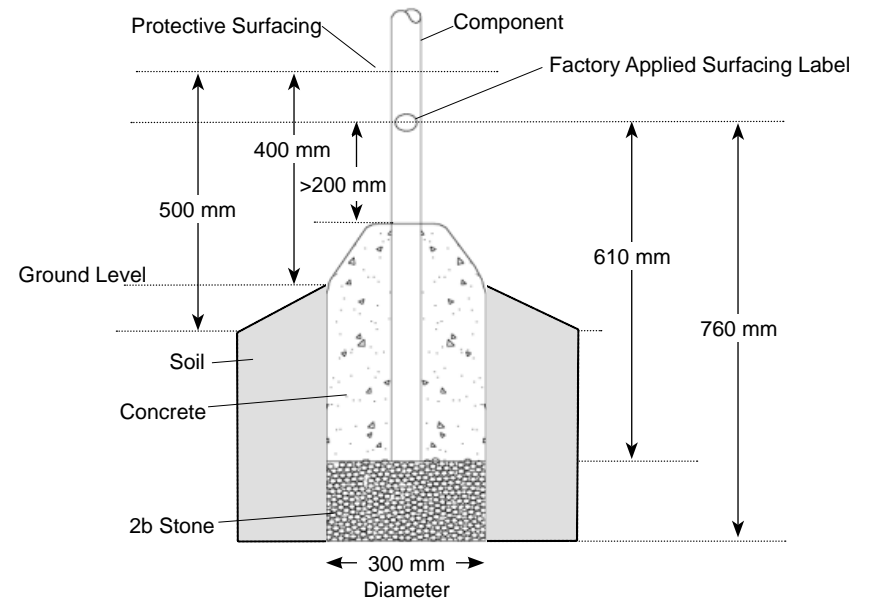
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)

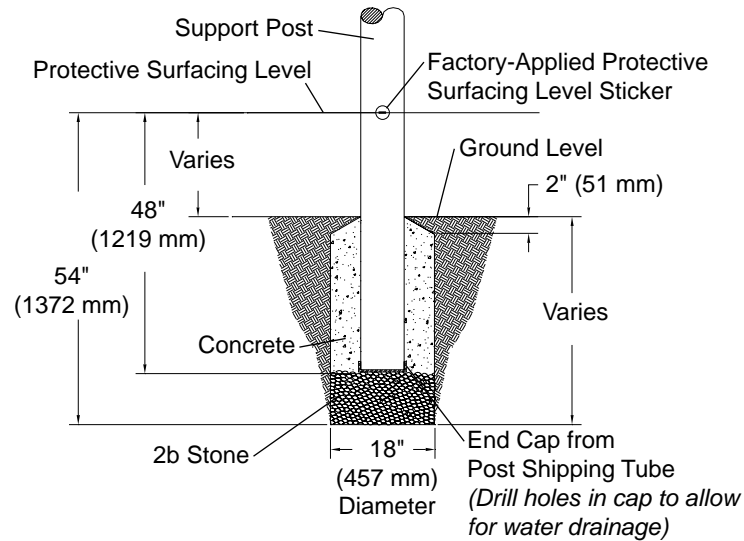


Footing Detail - Support Post (EN)

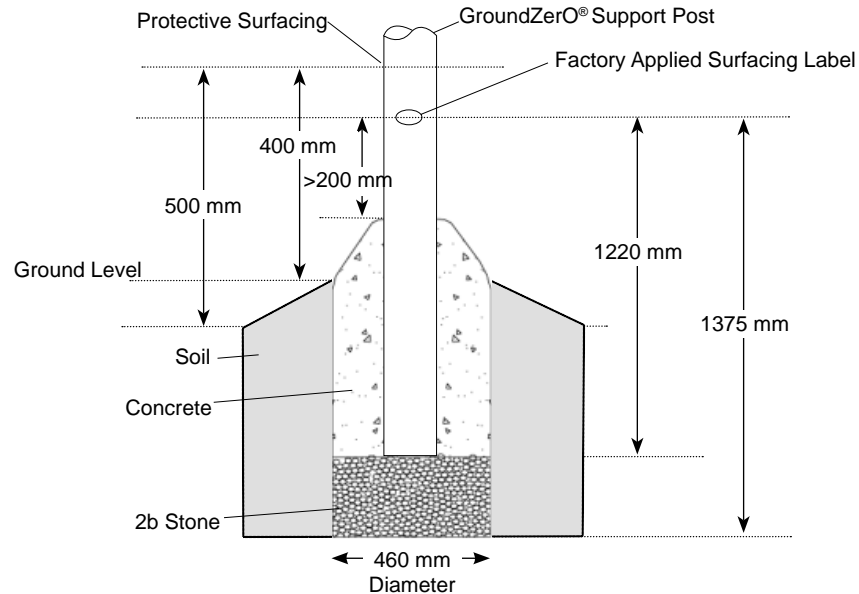


Footing Detail - Component Post (EN)

Footings Notes (in ground)

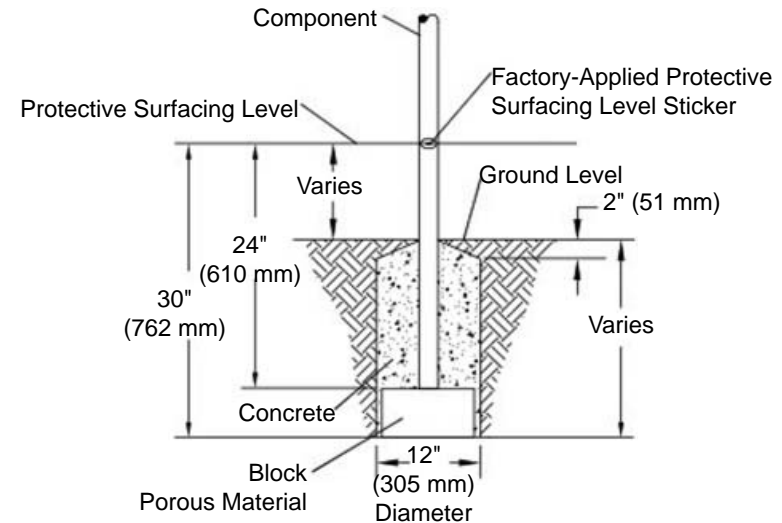


GroundZero® Support Post Footing Detail ASTM/CSA

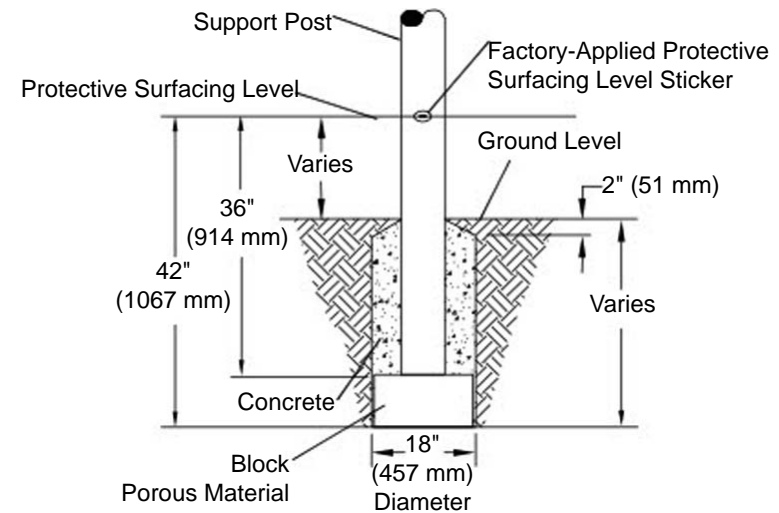


Footing Detail - GroundZero® Support Post (EN)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



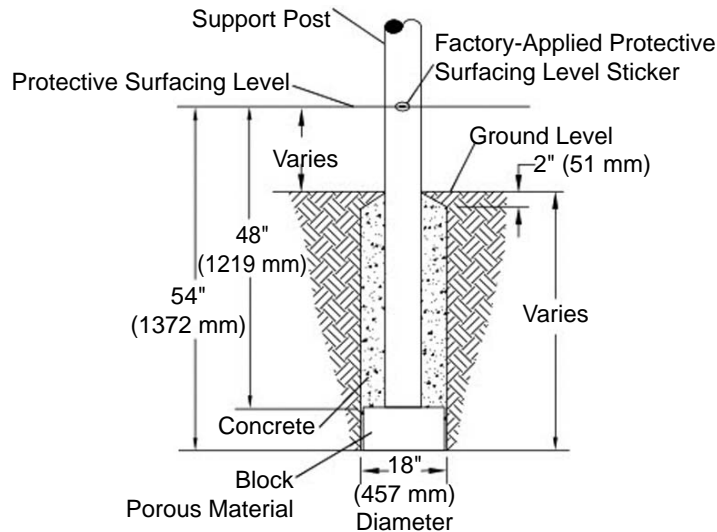
Component Footing Detail (ASTM/CSA)
Block Option



Support Post Footing Detail (ASTM/CSA)
Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

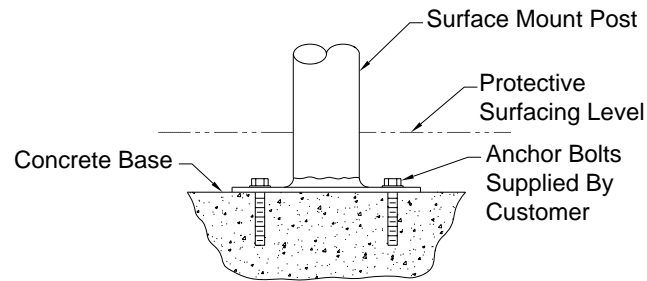


GroundZero® Support Post Footing Detail ASTM/CSA
Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label

INSTALLATION INSTRUCTIONS

PLAYMAKERS® MODEL PM5770 LEG LIFT



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
Installation Time: 1/2 hour
Weight: 7.2 Lbs. (3.3 Kilos)
Use Zone: 71 in. (1829 mm) all sides
User Group: Ages 2 - 12 years

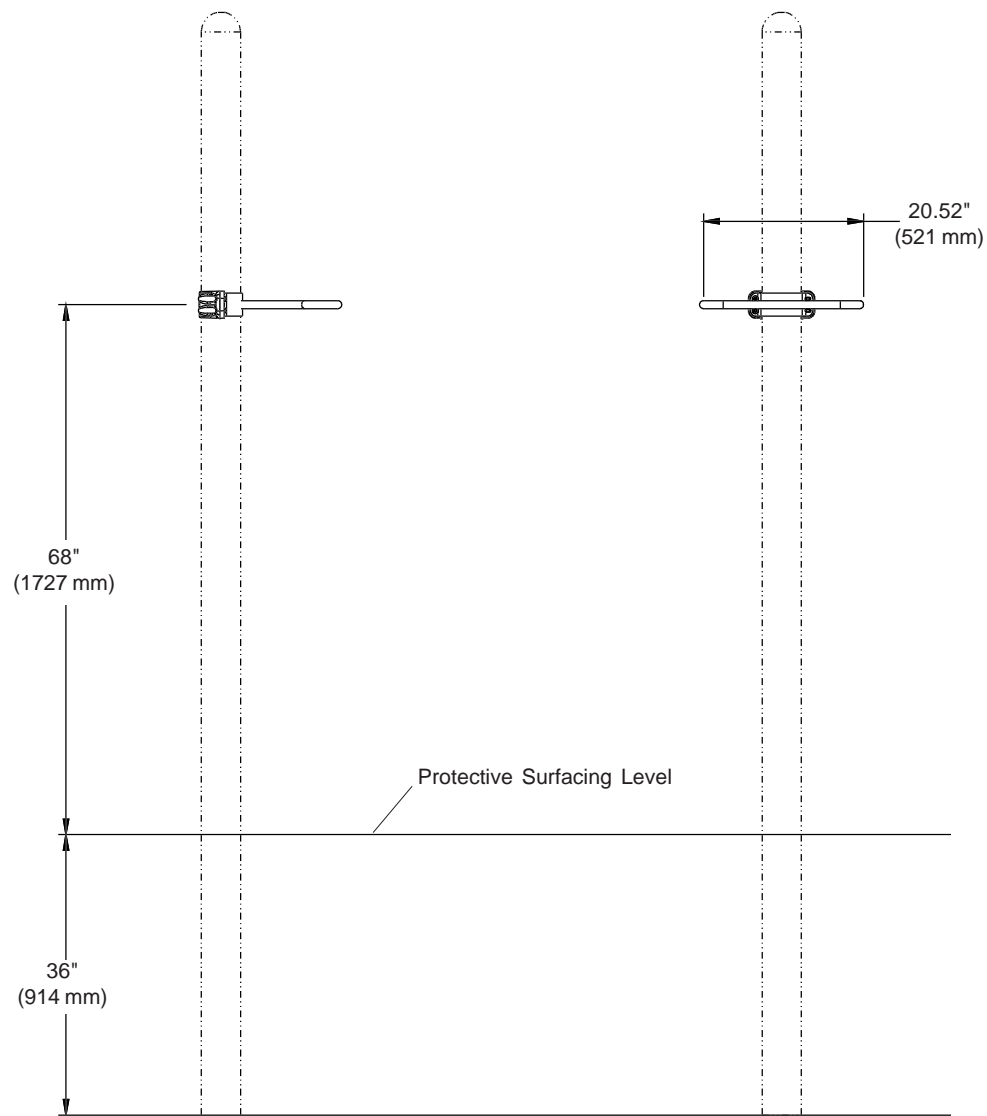
Torque Specification:

Bolts & Nuts: Snug tighten and
tighten an additional one-half turn.
Set Screws: Snug tighten and
tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

INSTALLATION INSTRUCTIONS



Elevation View

INSTALLATION INSTRUCTIONS

INSTALLATION

✓Notes Before You Begin:

- Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.
- If during the installation process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before re-installation.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

__Step 3: Leg Lift will be attached to a support post sold separately.

Attach leg lift to support post.

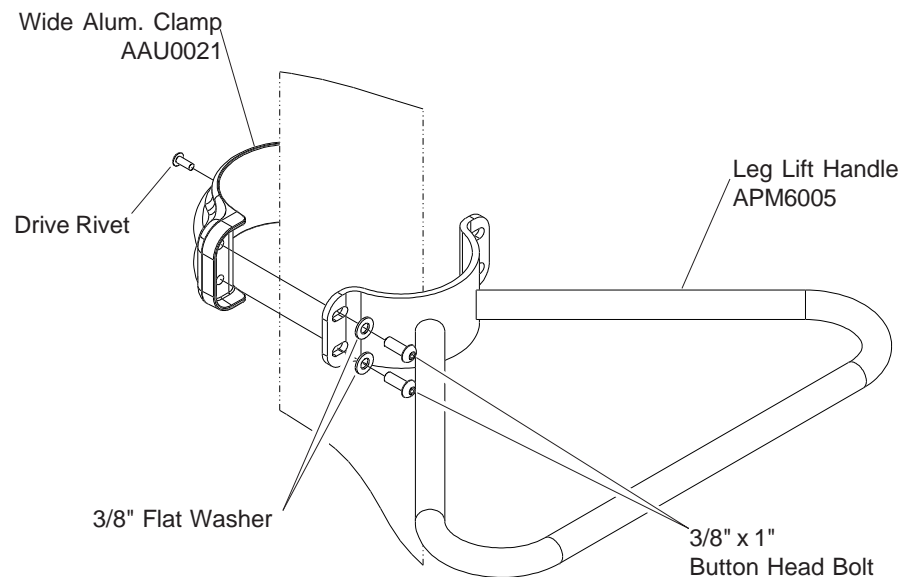
__Step 4: Attach leg lift to support post. See Detail A. Select leg lift handle, wide aluminum clamp, (4) four 3/8" x 1" button head bolts, and (4) four 3/8" flat washers. Sandwich the post between the wide clamp and handle clamp band. Align holes. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, through the handle clamp band, and thread into the wide clamp.

Final Details.

__Step 5: Adjust height to approximately 68" (1727 mm) above the protective surfacing level. See **Elevation View**. Plumb and level entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.

__Step 6: Install drive rivet. After the equipment assembly is complete, install a drive rivet in the aluminum clamp band to permanently secure it to the support post. See **Detail A**. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



Detail A

INSTALLATION INSTRUCTIONS



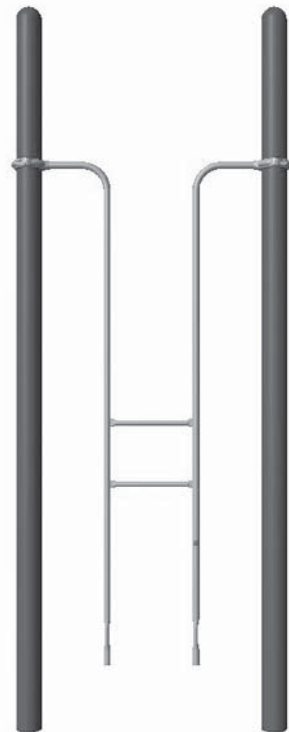
INSTALLATION INSTRUCTIONS

BILL OF MATERIAL

PM - LEG LIFT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	1
APM6005	HANDLE - LEG LIFT w/5" CLAMP	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4





Assembly View (representative model)

Model	Deck Height	Weight
ZZPM5950	12" (305 mm)	25 lbs. (11 kg)
ZZPM5960	24" (610 mm)	28 lbs. (13 kg)
ZZPM5970	36" (915 mm)	26.2 lbs. (11,8 kg)

Installation Instructions

Playmakers® Models PM5950,
PM5960, and PM5970

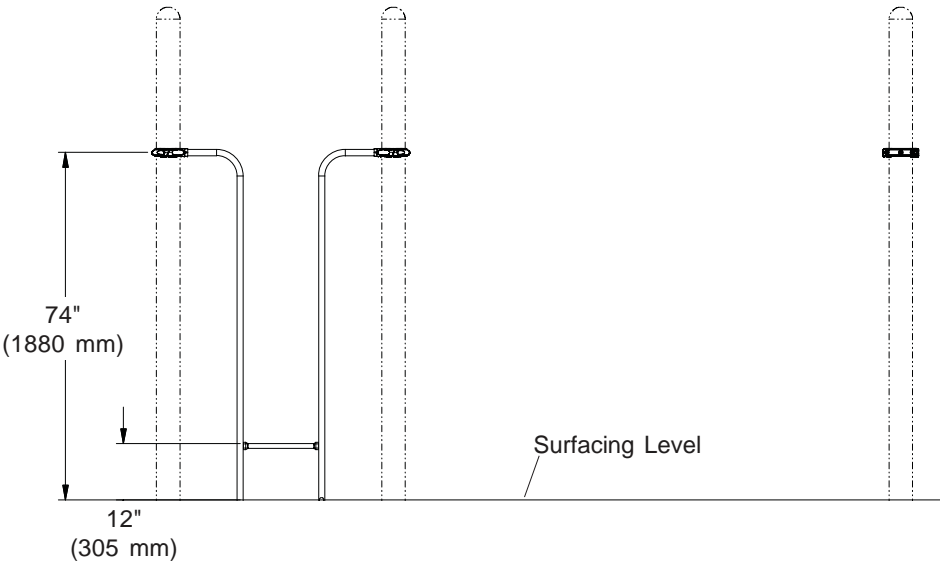
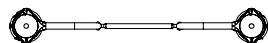
1, 2, and 3 Rung Overhead Event Access Ladder
12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1.5 installation-hours
 Weight: (refer to table)
 Concrete Required: 0.06 cubic yard (0,04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

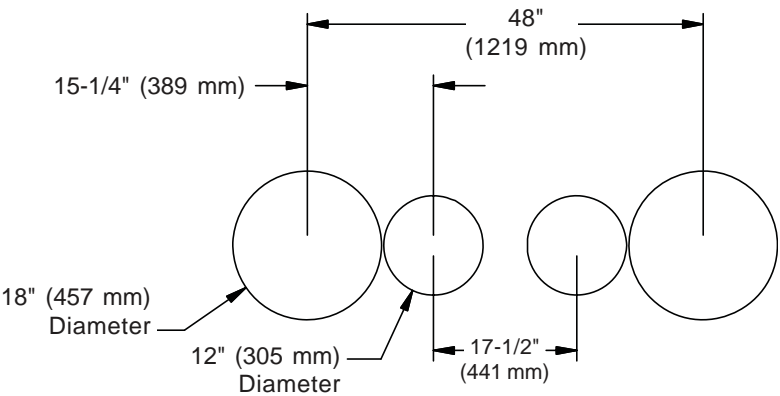
ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions

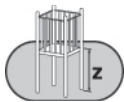


Elevation View

Elevation Views
PM5950



Footing Diagram
All Models



EN: 305 mm

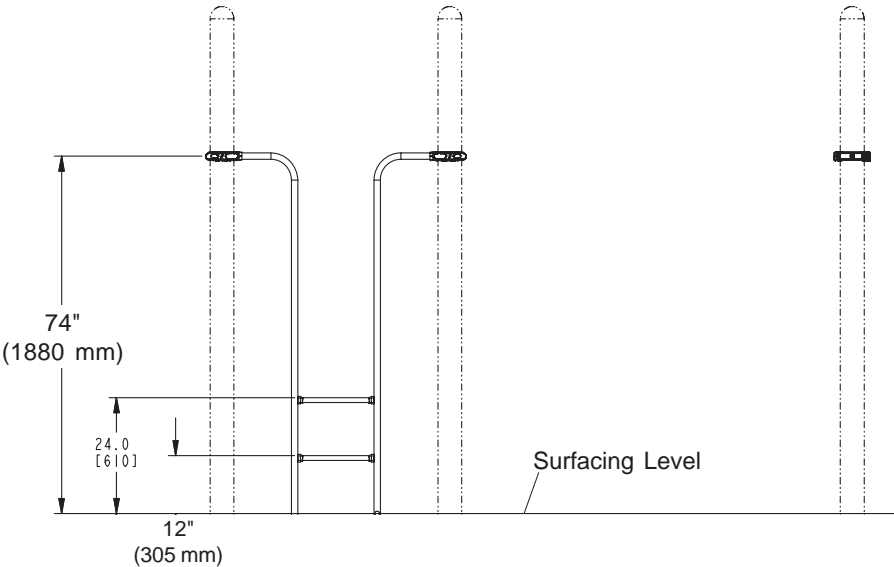
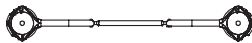


Installation Instructions

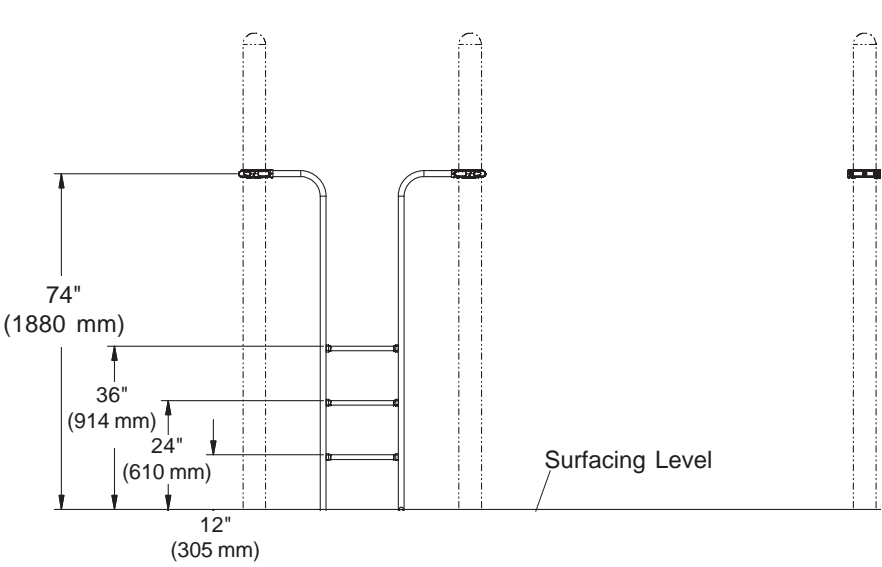
Top View



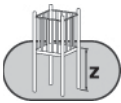
Top View



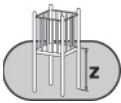
Elevation Views
PM5960



Elevation Views
PM5970



EN: 610 mm

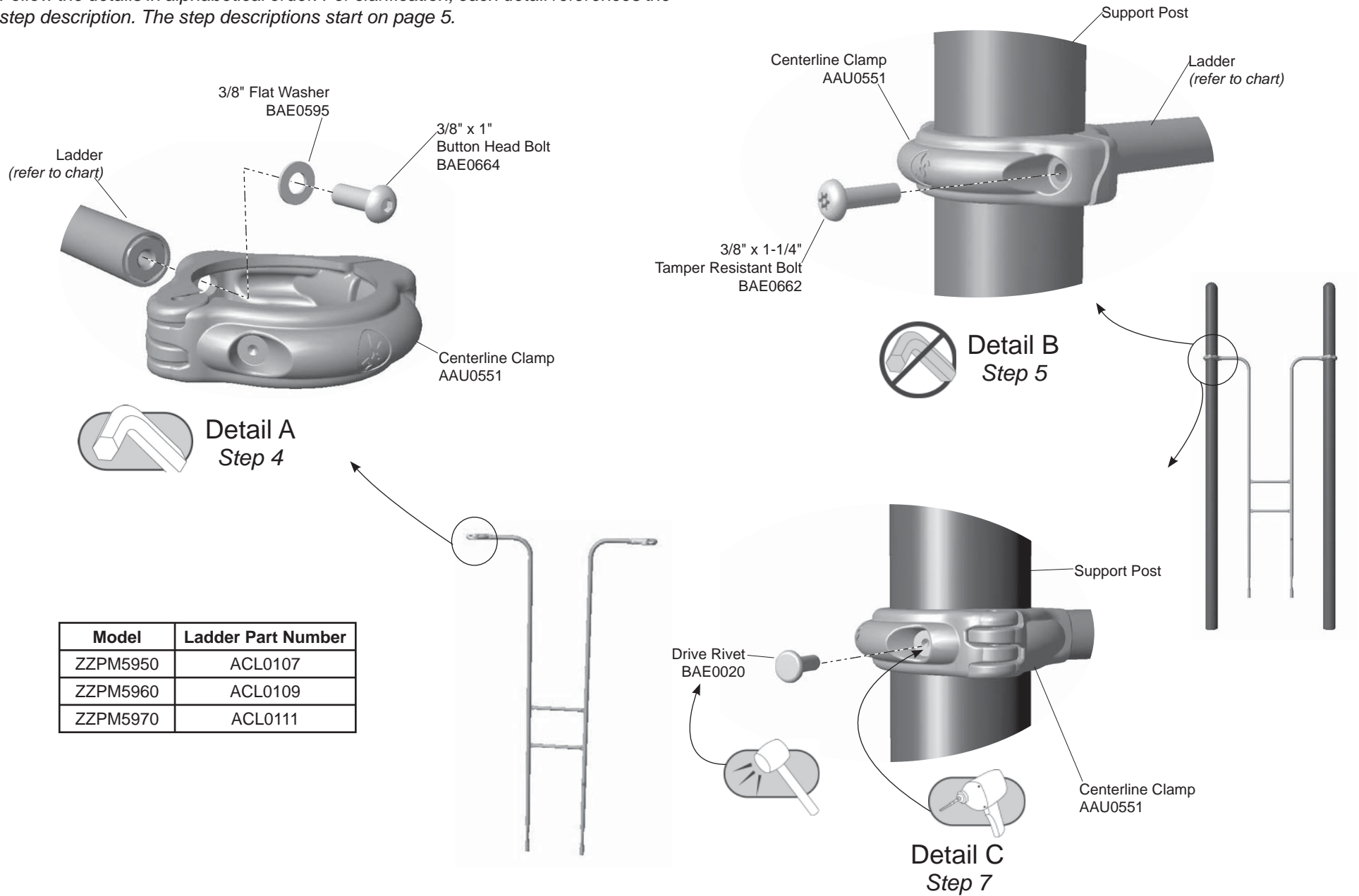


EN: 915 mm



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines*.

Attach the clamps to the access ladder.

Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.

Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.

Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2



For Customer Service, Call
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WARNING

Attention: Owner

The Overhead Components are designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Overhead Component can result in serious accidents. The following rules for the use of the component must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. The components are designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of the users.
- Do not crawl on, sit on, stand on or jump off the top of the assembly.
- Users must move in same direction across the length of the top of the component assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.

SUPERVISION INSTRUCTIONS

PLAYWORLD SYSTEMS® OVERHEAD COMPONENTS (SEE COMPONENT LISTING BELOW)

- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Overhead Component in accordance with ASTM specification F1292 appropriate for the fall height of the Overhead Component .
- Review and familiarize warning document supplied with each Overhead Component shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.

Playworld Systems accepts NO responsibility for improper use.

Overhead Components include:

- Horizontal Ladders
- Horizontal Hand Over Hand Ladders
- Horizontal Loop Rung Ladders
- Under Catwalk Hand Over Hand
- Under Catwalk Loop Rung Ladder
- Sky Link
- Sky Arch

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Use When Hand Rungs Are Wet



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

Overhead Component shown is for example only. May not be the component ordered.



Assembly View

Installation Instructions
Playmakers® Model PM6966
120 in. (3048 mm)
Roundabout Horizontal Ladder

Installation Preparation

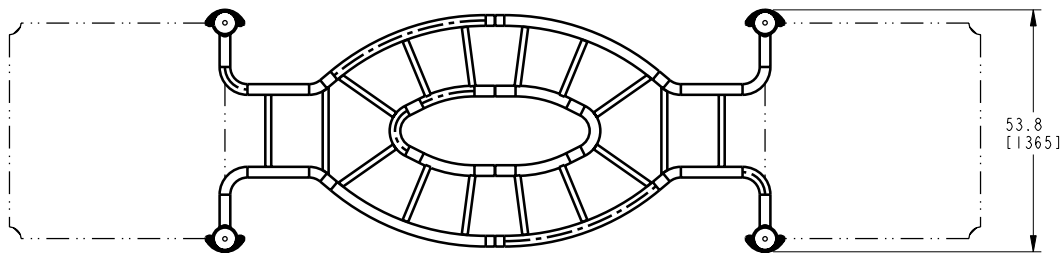
Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

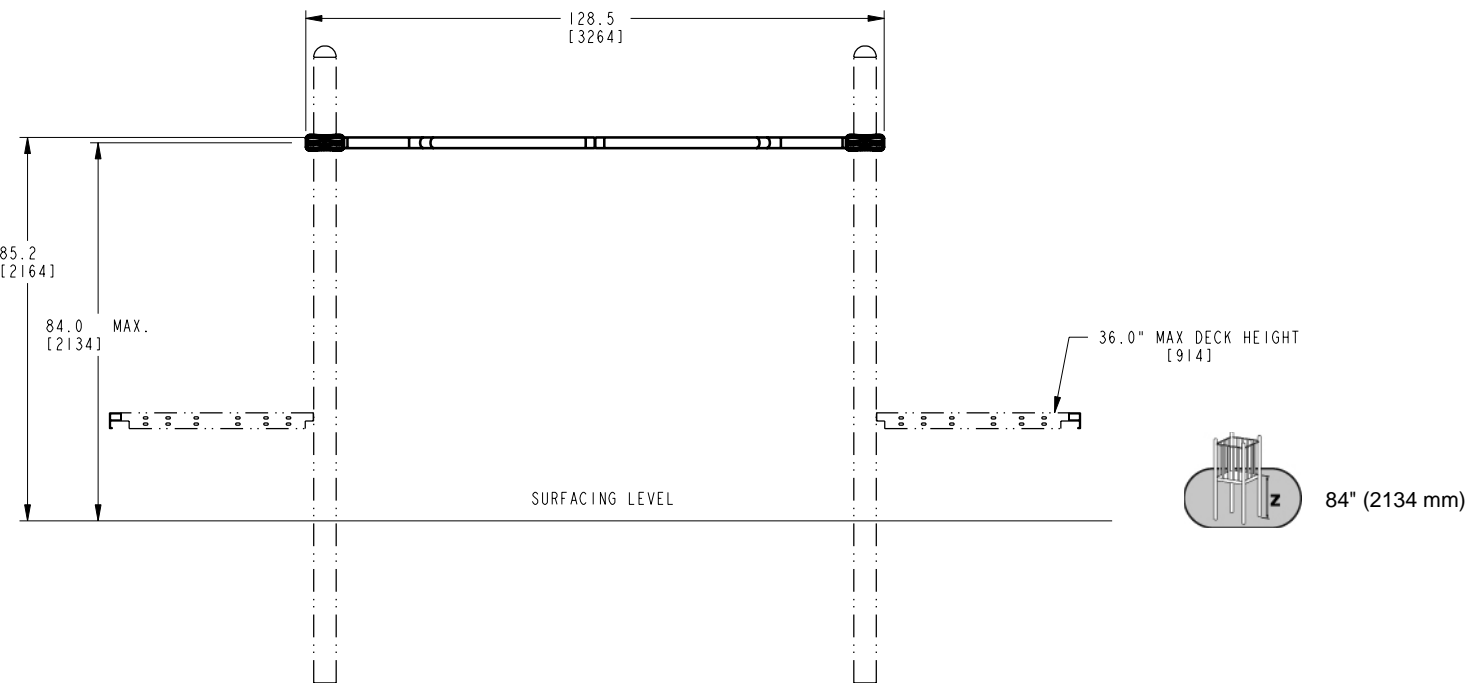
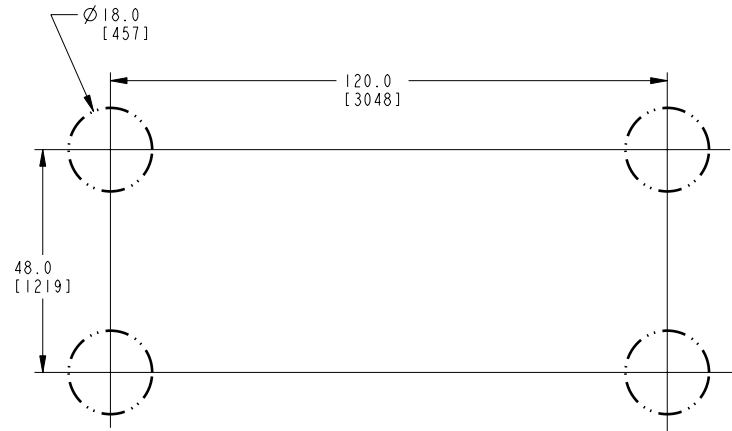
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



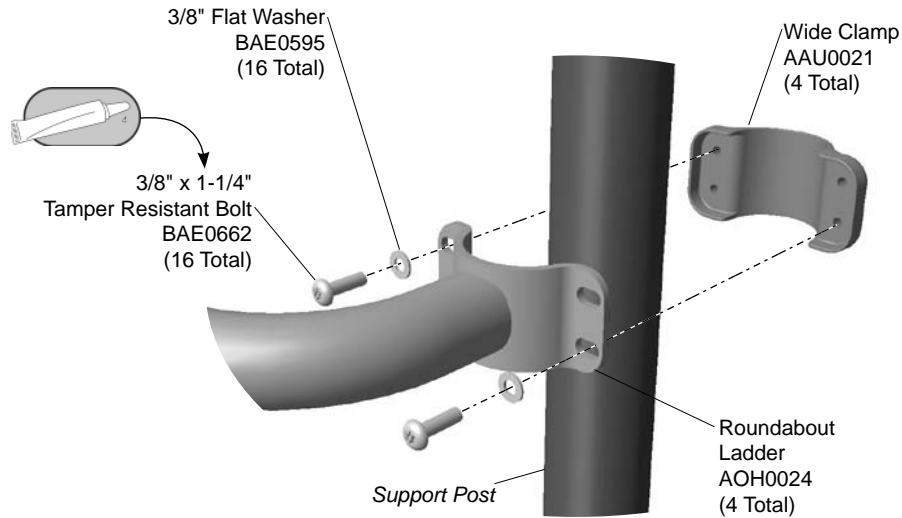
Footing Diagram



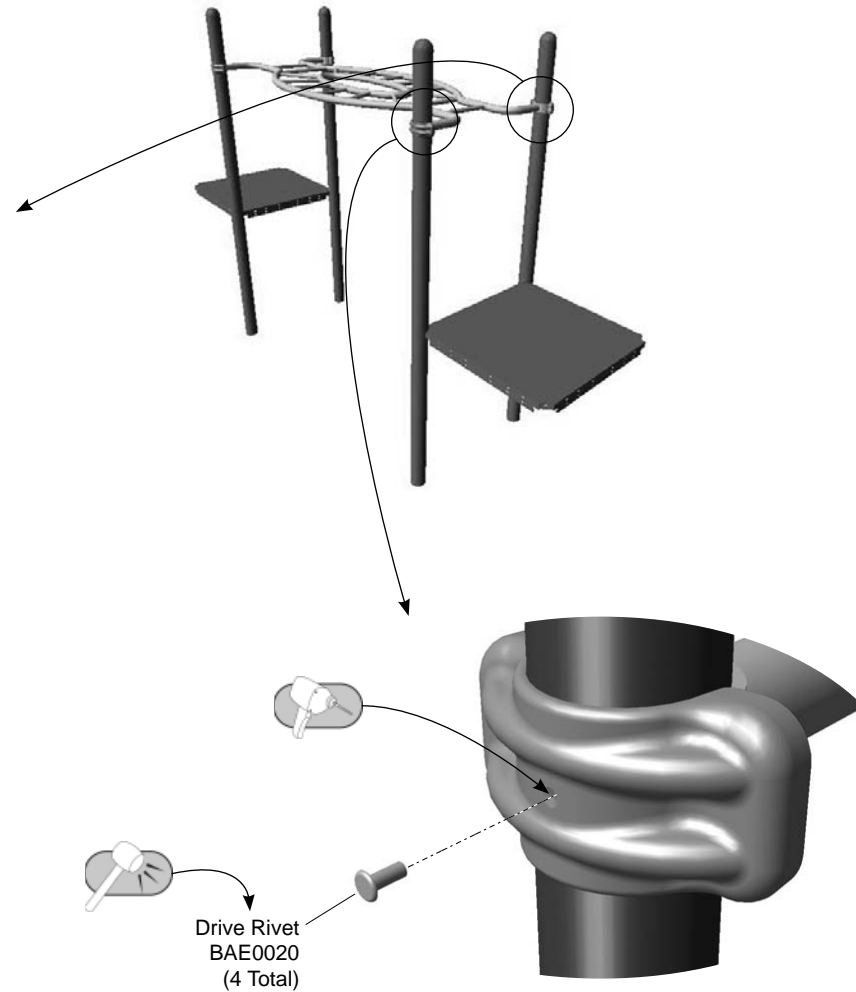
Elevation View

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A
Step 4 
Attach the ladder to the support posts.



Detail B
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the component by referring to the master plan view.

Step 4: Attach the ladder to the support posts. See **Detail A** and **Elevation View**. Position the ladder between the support posts at the approximate height. Place each clamp around the post and against the ends of the ladder. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Start all bolts before tightening any.

Step 5: Adjust height of the assembly. See **Elevation View**. Adjust the height of the top rail so that the center of the clamp band is 84 in. (2134 mm) above the level of protective surfacing. Tighten the bolts *evenly* so that any gap is covered by the clamp casting.

Final Details.

Step 6: Plumb and level the entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

Step 7: Install the drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp band to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp band and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

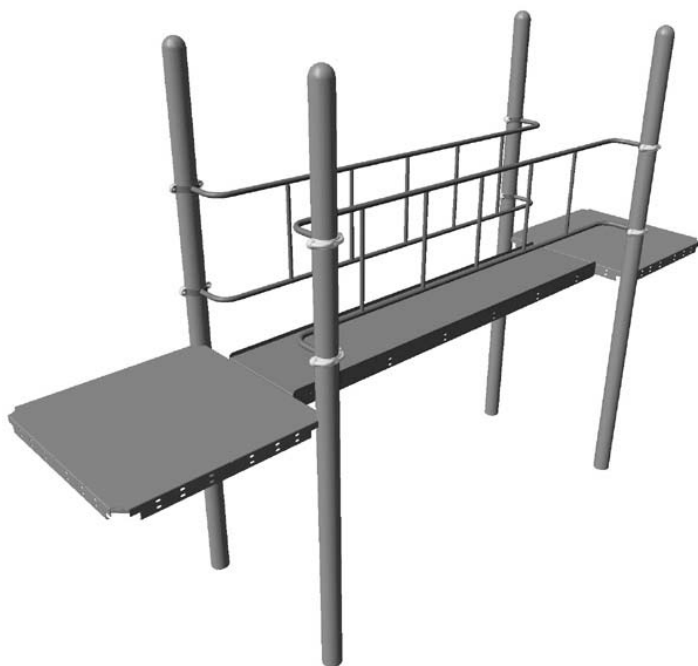
Note: This step should be executed after structure has been assembled and properly footed.

Step 8: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM6966 - 120 in. (3048 mm) ROUNDABOUT HORIZONTAL LADDER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
AOH0024	ROUNDABOUT LADDER - PM	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	16
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View (representative model)


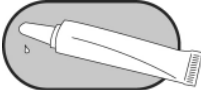

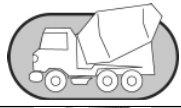



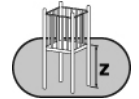
Installation Instructions

Playmakers® Model PM6896 and PM6897
6 ft. (1829 mm) and 10 ft. (3048 mm)
Catwalk w/ Guardrail

Installation Preparation

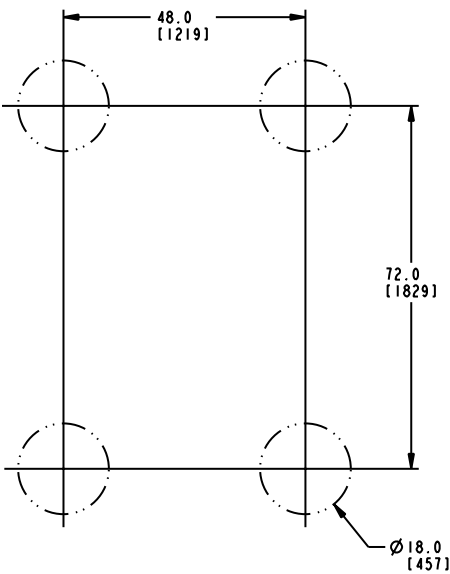
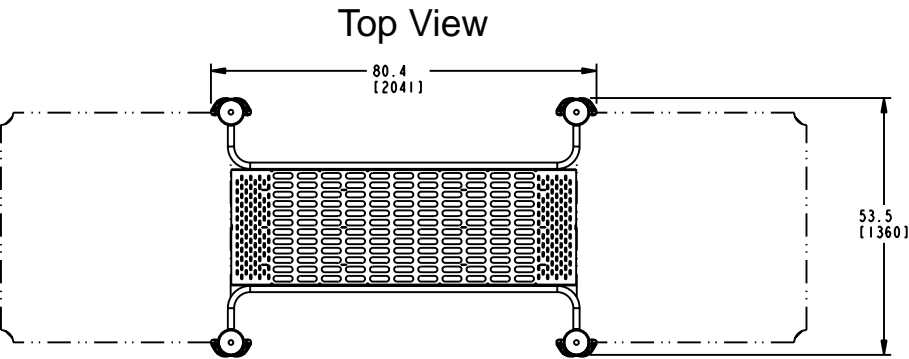
Recommended Crew: Four (4) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

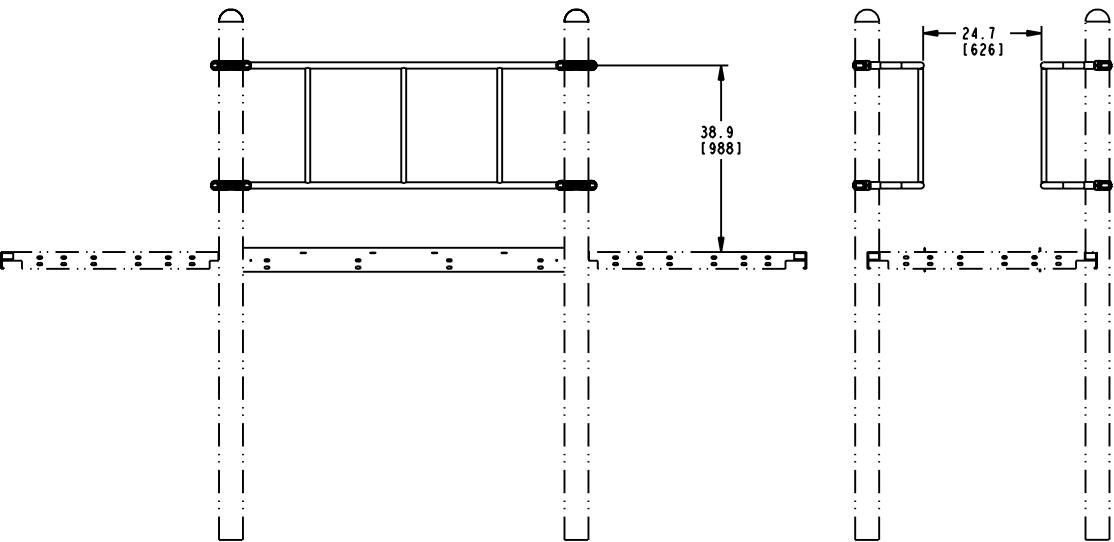
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

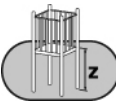
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
PM6896

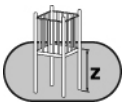
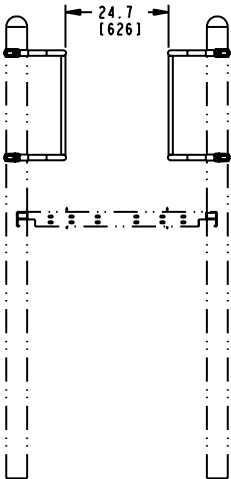
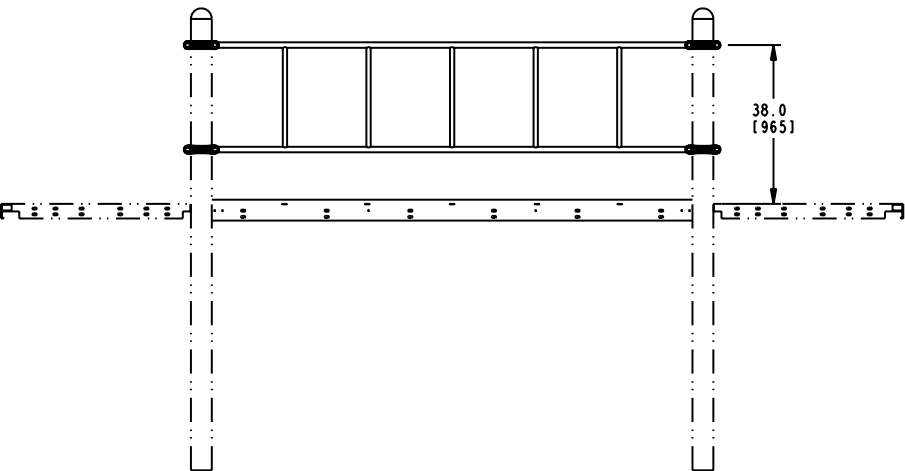
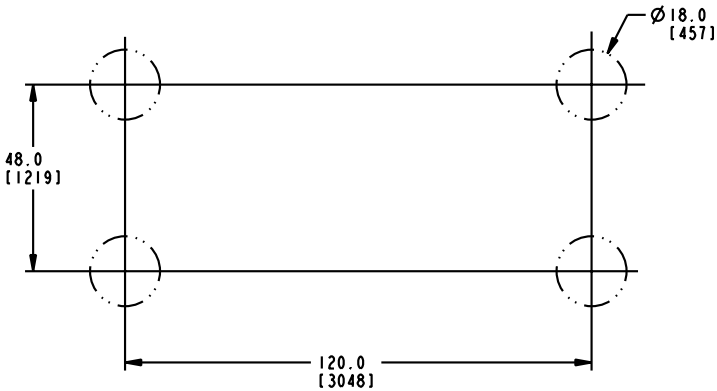
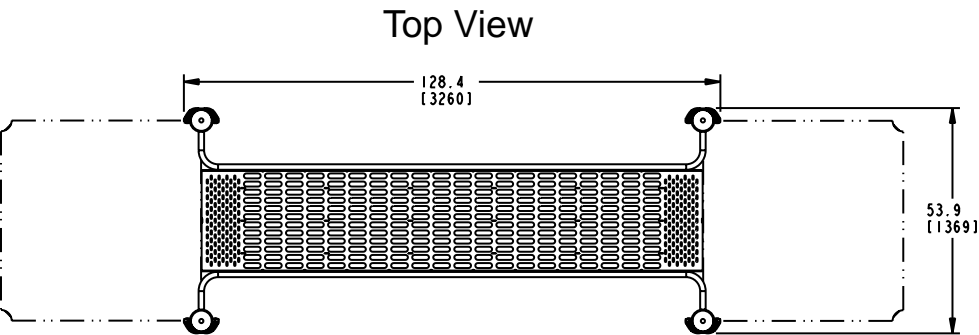


Equal to the height of the deck.



Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

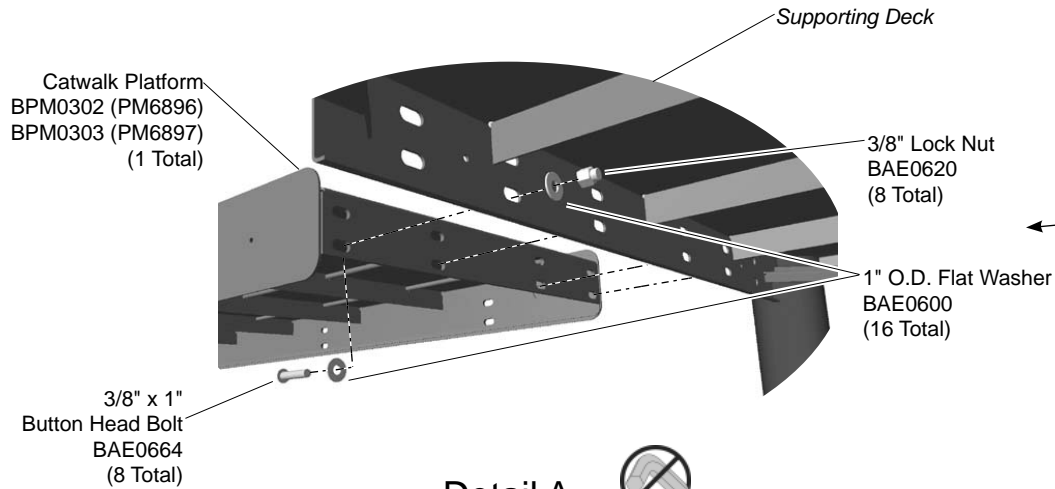


Equal to the height of the deck.



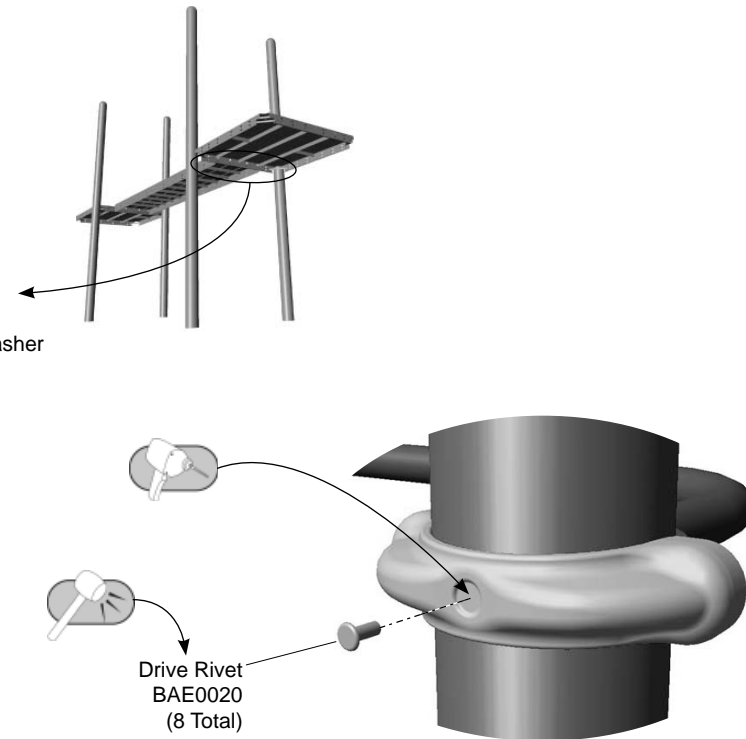
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



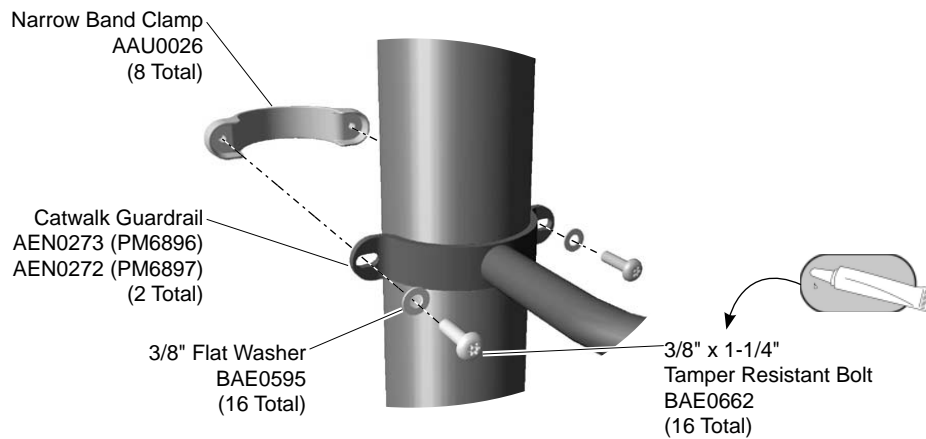
Detail A
Step 3

Attach the catwalk to the decks.



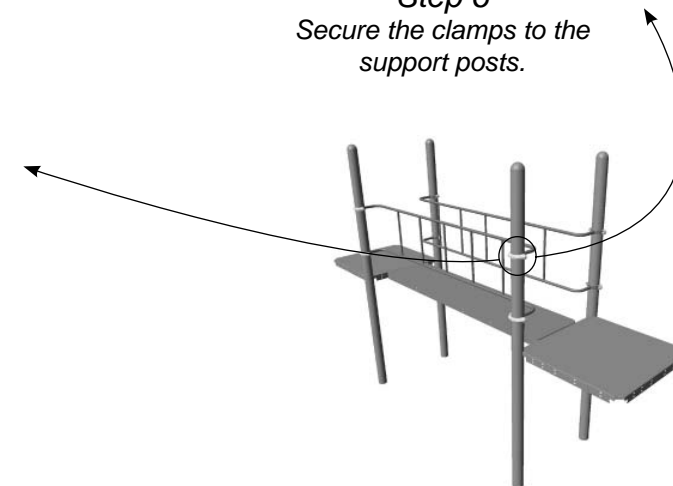
Detail C
Step 6

Secure the clamps to the support posts.



Detail B
Step 4

Attach the guardrails to the support posts.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the catwalk to the decks.

Step 3: Attach the catwalk to the decks. See **Detail A**. Using adequate manpower, position the catwalk between the decks and attach as shown.

Attach the guardrails to the support posts.

Step 4: Attach the guardrails to the support posts. See **Detail B**. Position each guardrail between the support posts at the height indicated on the **Elevation View**. Position the clamps around the posts and attach to the guardrails as shown. The guardrails should be on the catwalk side of the posts.

Final Details.

Step 5: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Make sure the top of the catwalk it flush to and level with the deck.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM6896 - 6 ft. (1829 mm) CATWALK w/ GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
AEN0273	GUARDRAIL - 79-7/8" x 26-7/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	16
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BPM0302	PLATFORM - 71.88" x 24.21" x 5" CATWALK	1

PM6897 - 10 ft. (3048 mm) CATWALK w/ GUARDRAIL

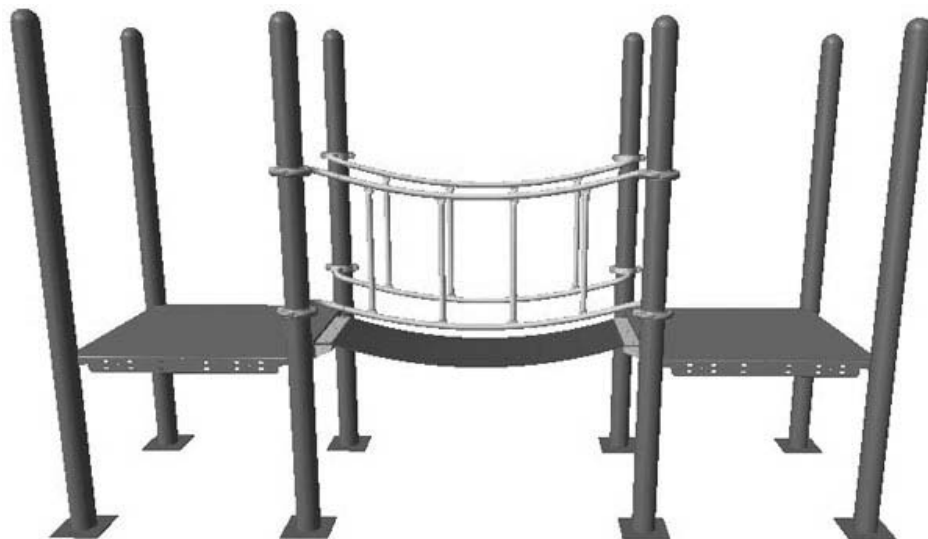
PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
AEN0272	GUARDRAIL - 127-7/8" x 26-7/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BPM0303	PLATFORM - 119.88" x 24.21" x 5.00" CATWALK	1



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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM8480 and PM8486

6 ft. (1829 mm) and 10 ft. (3048 mm)

Ripple Bridge

Installation Preparation

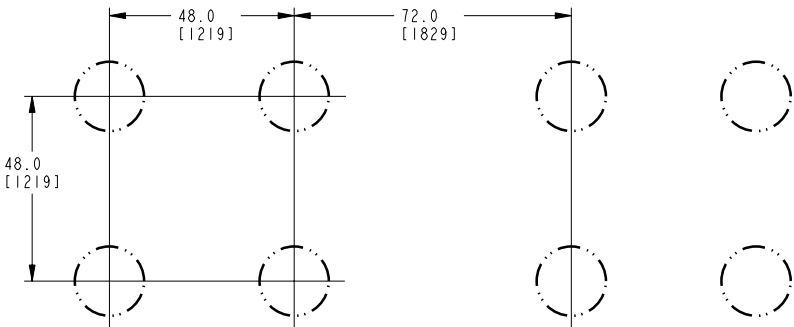
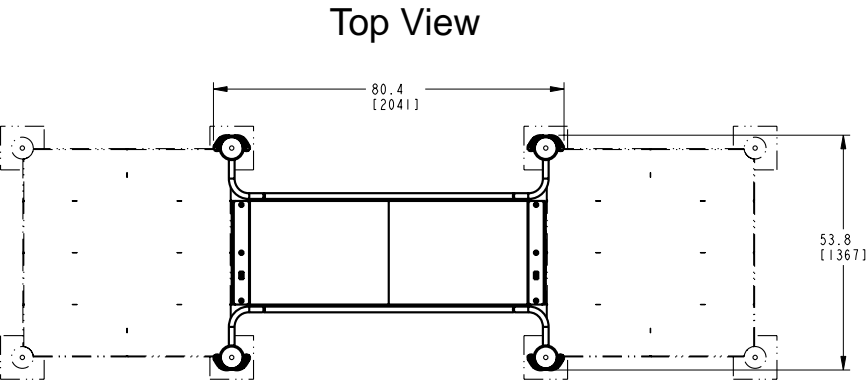
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

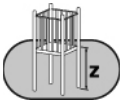
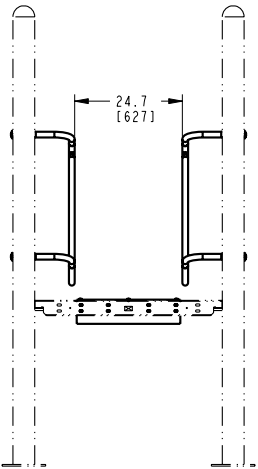
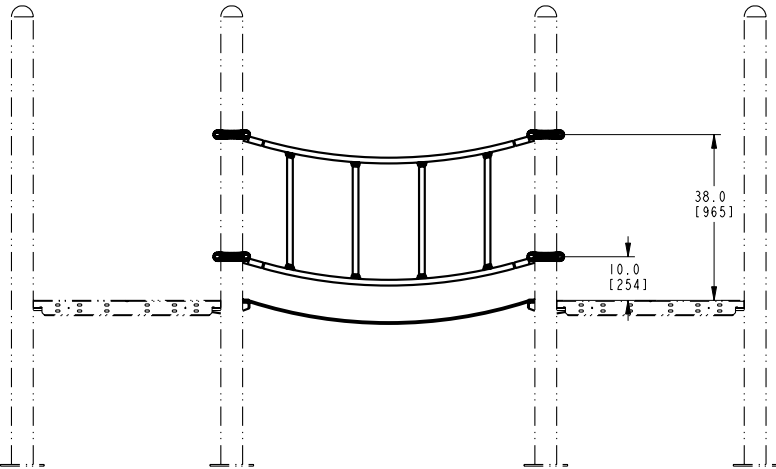
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Equal to the height of the deck.

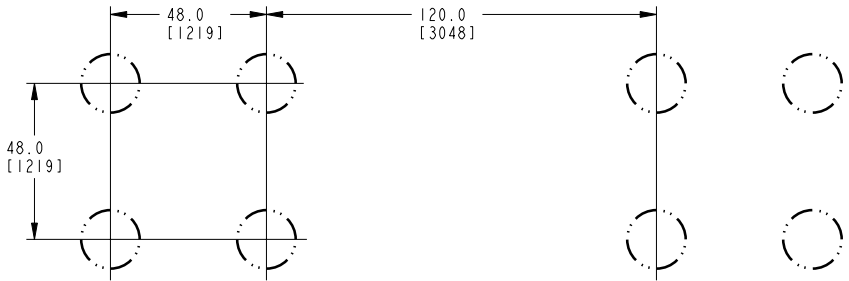
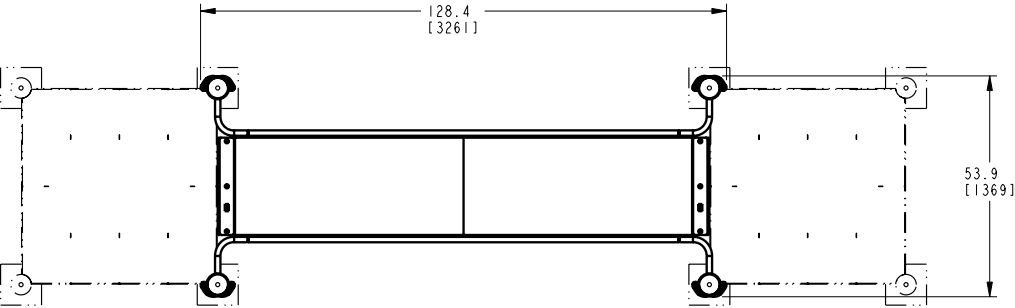
Elevation Views
PM8480



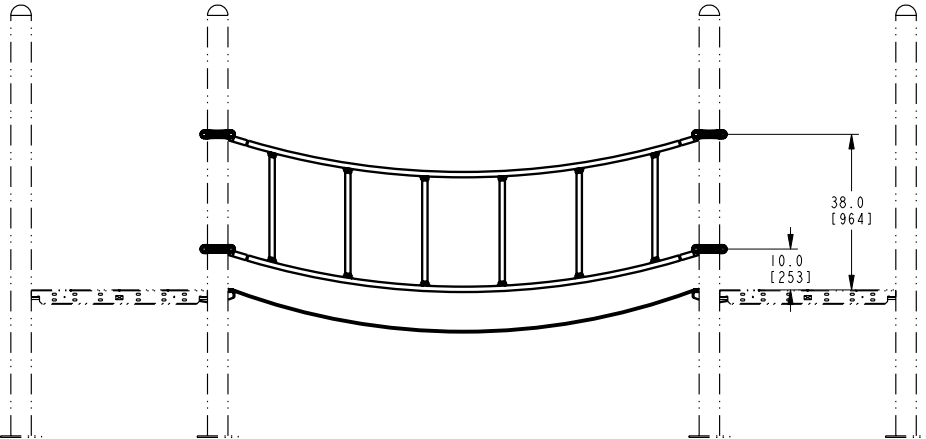
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

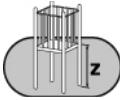
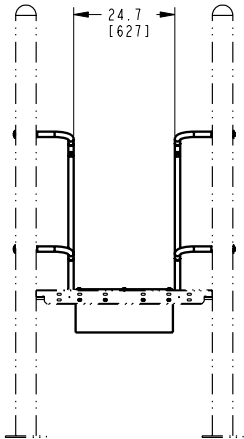
Top View



Footing Diagram



Elevation Views
PM8486

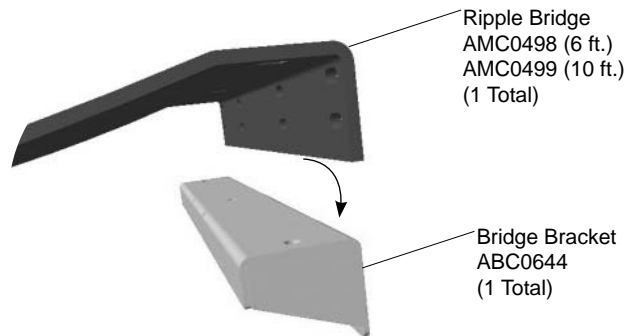


Equal to the height of the deck.



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



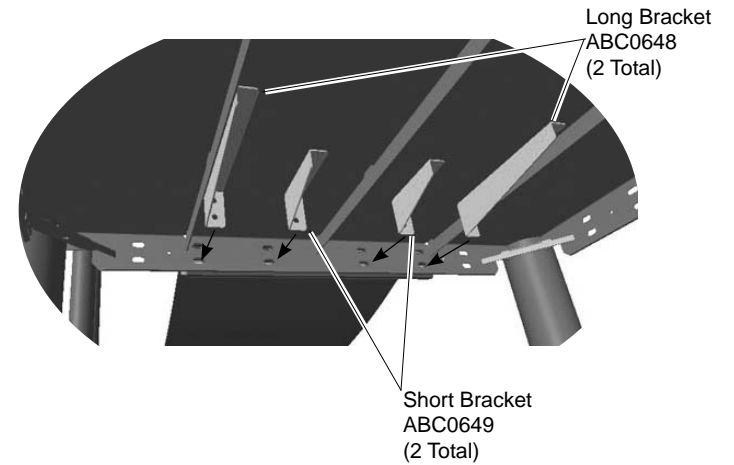
Detail A-1

Fold one end of the bridge down over the bracket and align the holes.



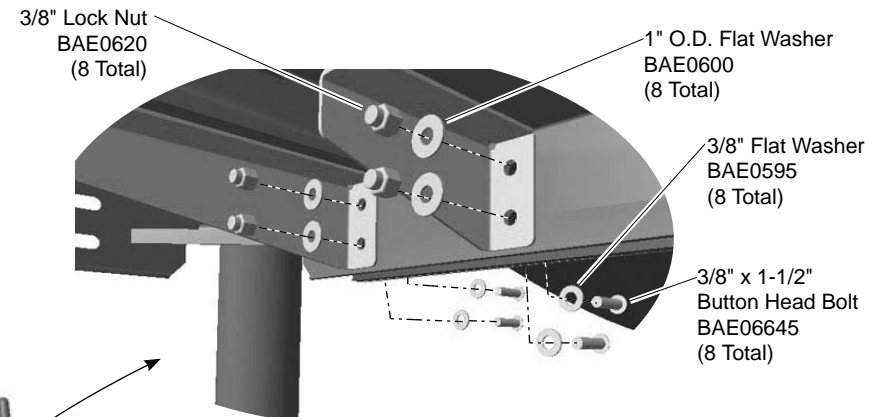
Detail A-2

Position the bridge and bracket against a deck and align the holes.



Detail A-3

Position the long and short brackets underneath the deck and align the holes.



Detail A-4

Make the connections as shown.

Details A-1, A-2, A-3, and A-4

Step 3

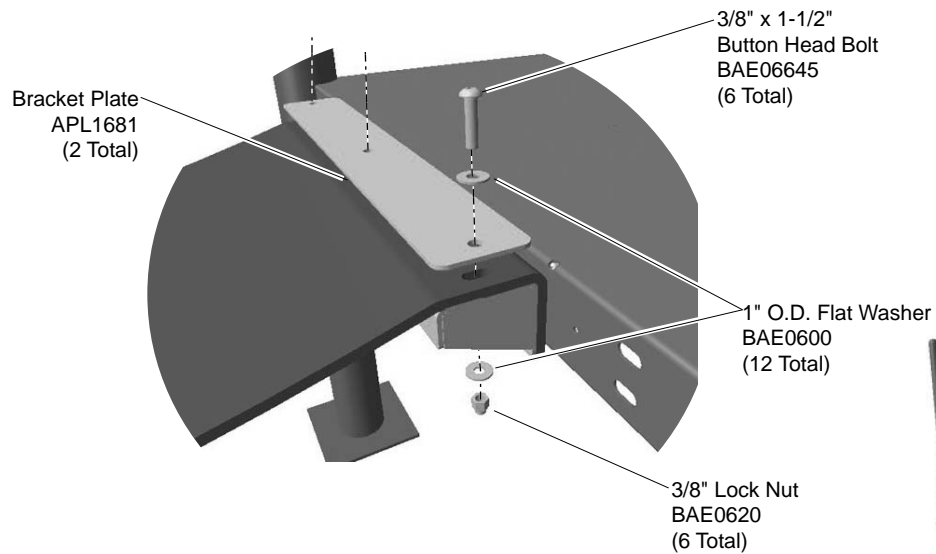
Attach one end of the bridge to a deck.



Installation Instructions

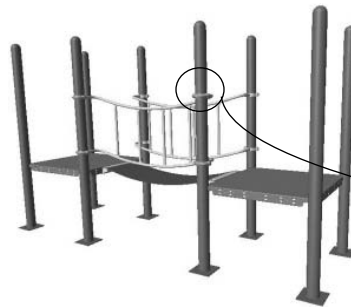
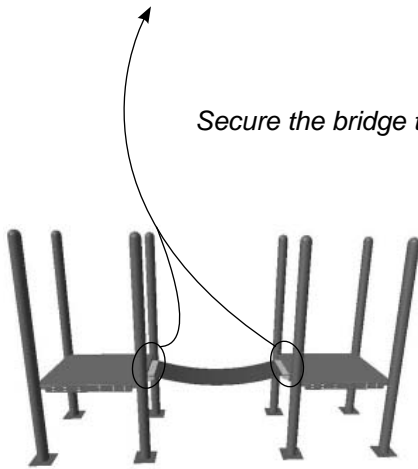
Step 4

Repeat Step 3 to attach the other end of the Ripple Bridge to the other deck. Extra manpower may be required to make the connections.



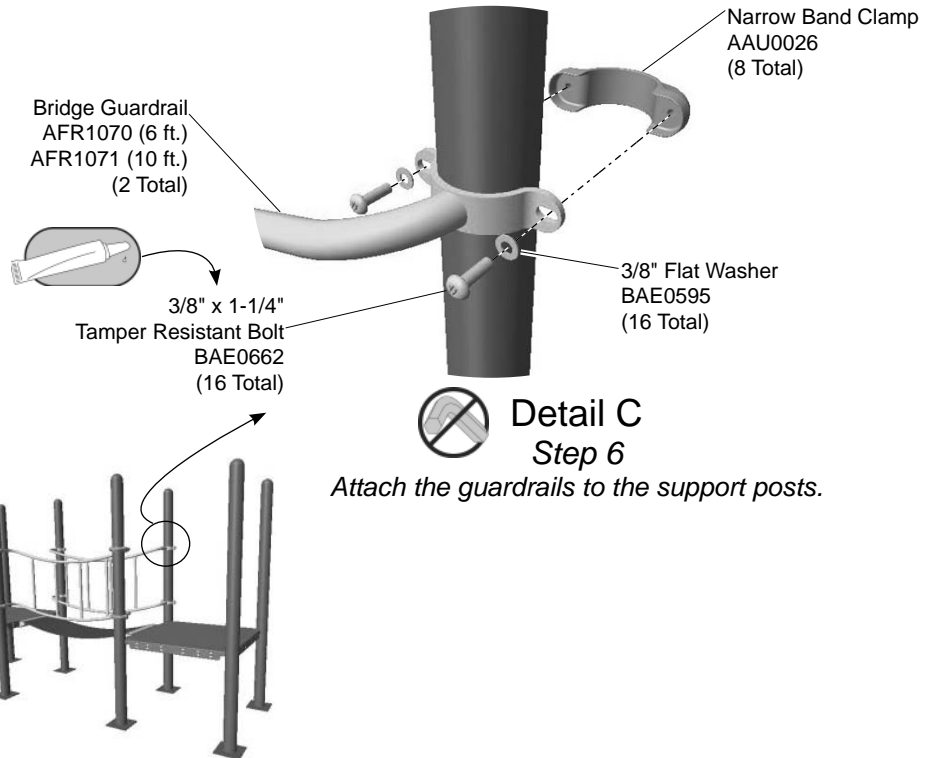
Detail B Step 5

Secure the bridge to the top of the bridge bracket.



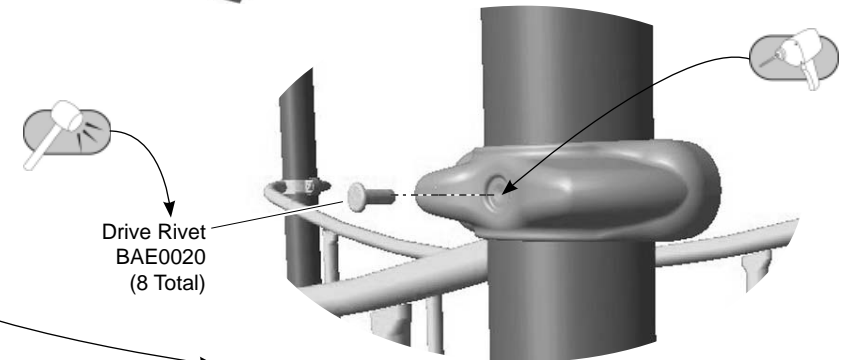
Detail C Step 6

Attach the guardrails to the support posts.



Detail D Step 8

Secure the band clamps to the support posts.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach one end of the bridge to a deck. See **Details A-1 thru A-4**. Fold one end of the bridge down over a bracket, position against a deck with the long and short brackets placed underneath the deck, align the holes, and attach as shown.

Step 4: Repeat the procedure in **Step 3** to attach the other end of the bridge to the other deck. Additional manpower may be needed to stretch the bridge out to make those connections.

Step 5: Secure the bridge to the top of the bridge bracket. See **Detail B**. Place the bridge plates on top of each end of the bridge, align the holes in the plate with the holes in the bridge, and attach as shown.

Step 6: Attach the guardrails to the support posts. See **Detail C**. Position each guardrail to the inside of the support posts at the height indicated on the **Elevation View**. Place the band clamps around the support posts and against the bands on the guardrail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM8480 - 6 ft. (1829 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1070	GUARDRAIL - 6' MAT BRIDGE (PM)	2
AMC0498	6' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8486 - 10 ft. (3048 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1071	GUARDRAIL - 10' MAT BRIDGE (PM)	2
AMC0499	10' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Assembly View

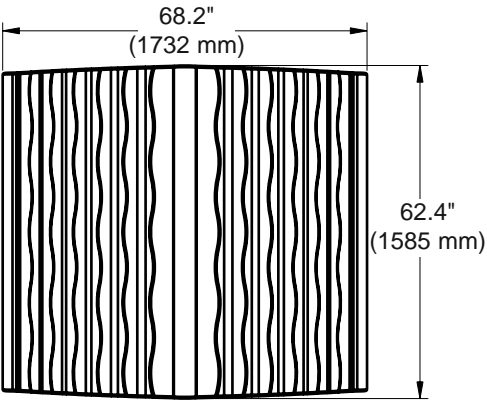
Installation Instructions
Playmakers®
Model PM9846
Cabana Roof

Installation Preparation

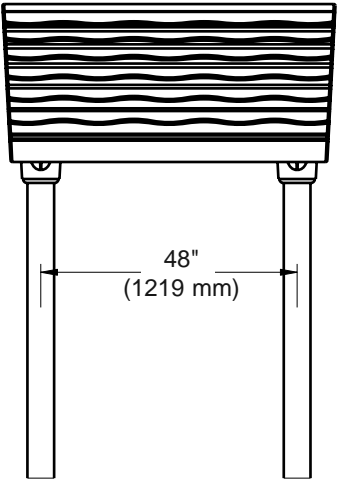
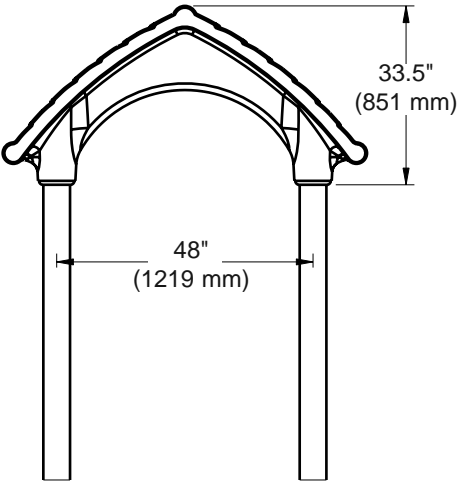
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 123 lbs. (55,9 kg)

ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions



Top View



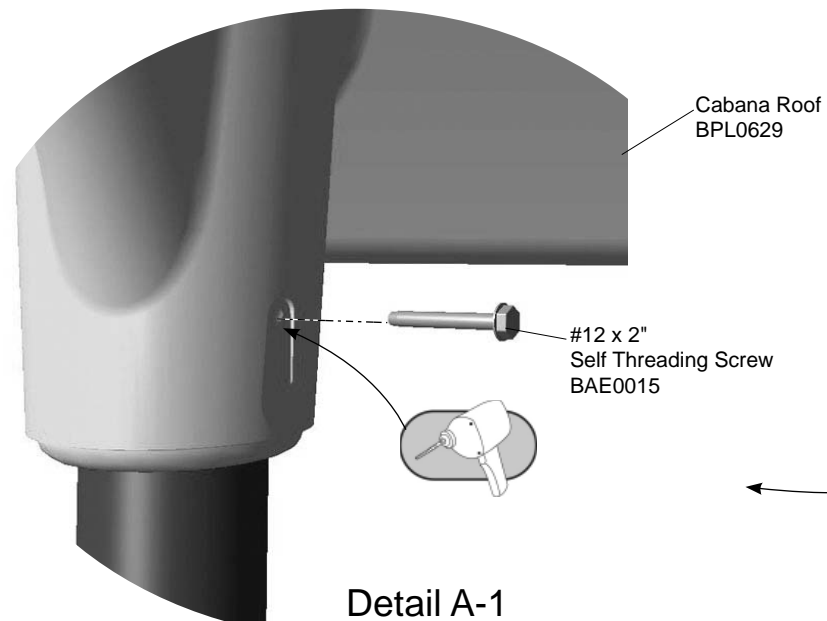
Elevation Views
ZZPM9846

Installation Instructions

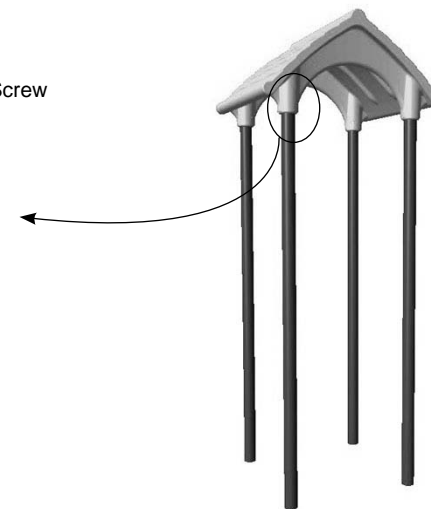
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1
Step 3



Detail A-1
Step 3



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1

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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®




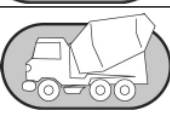
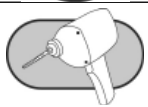

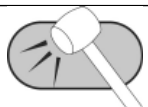
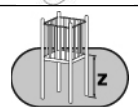
Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

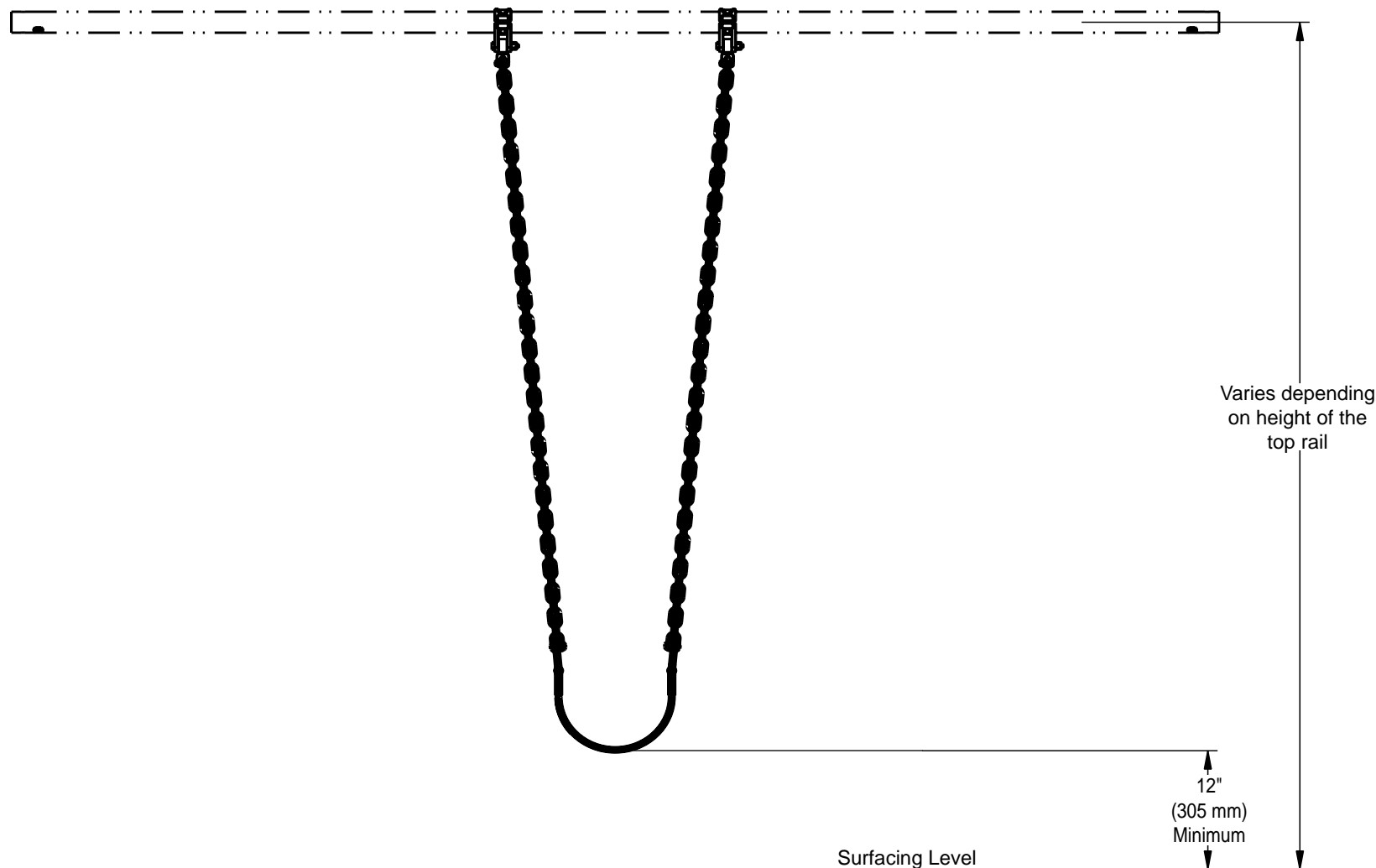
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

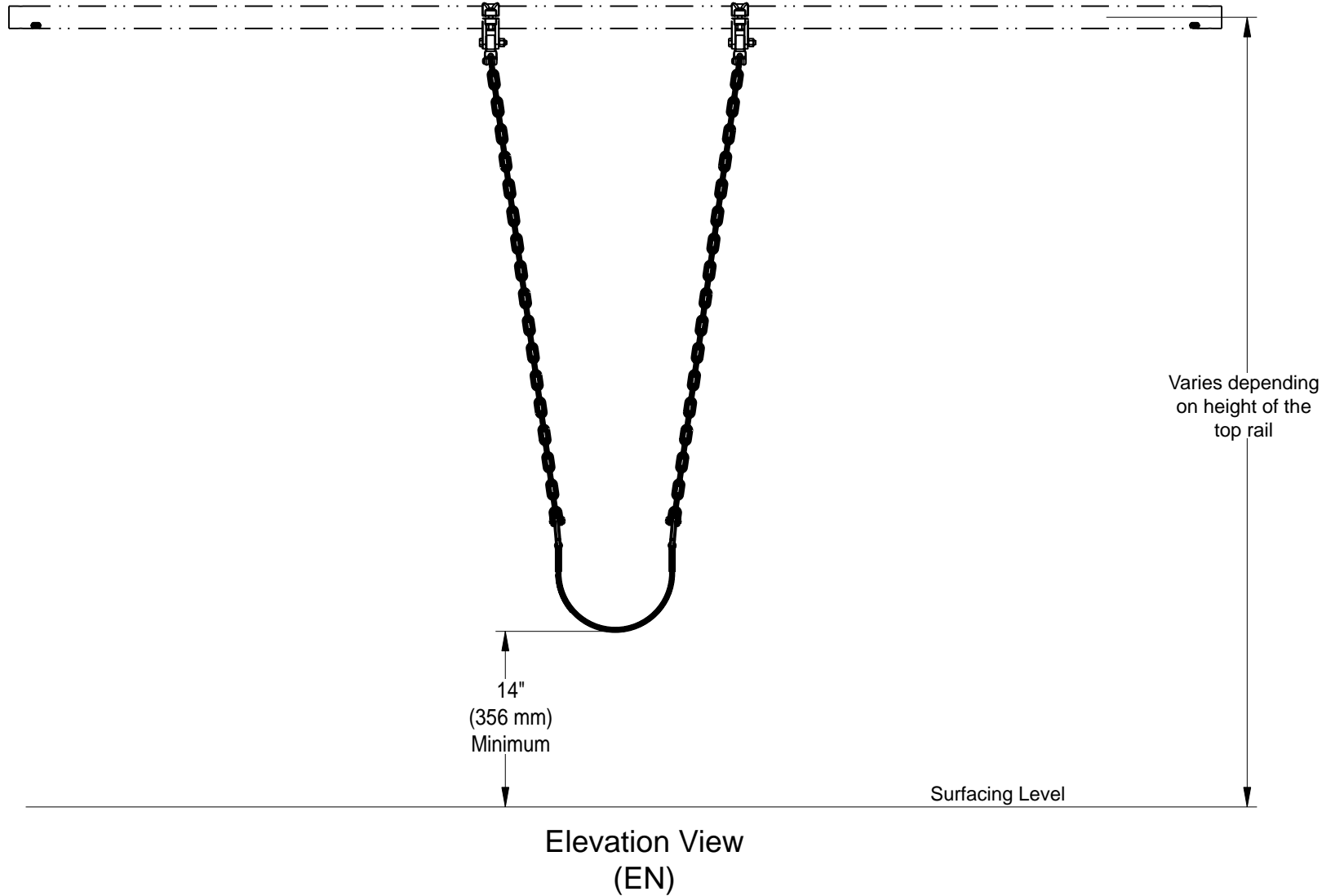


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



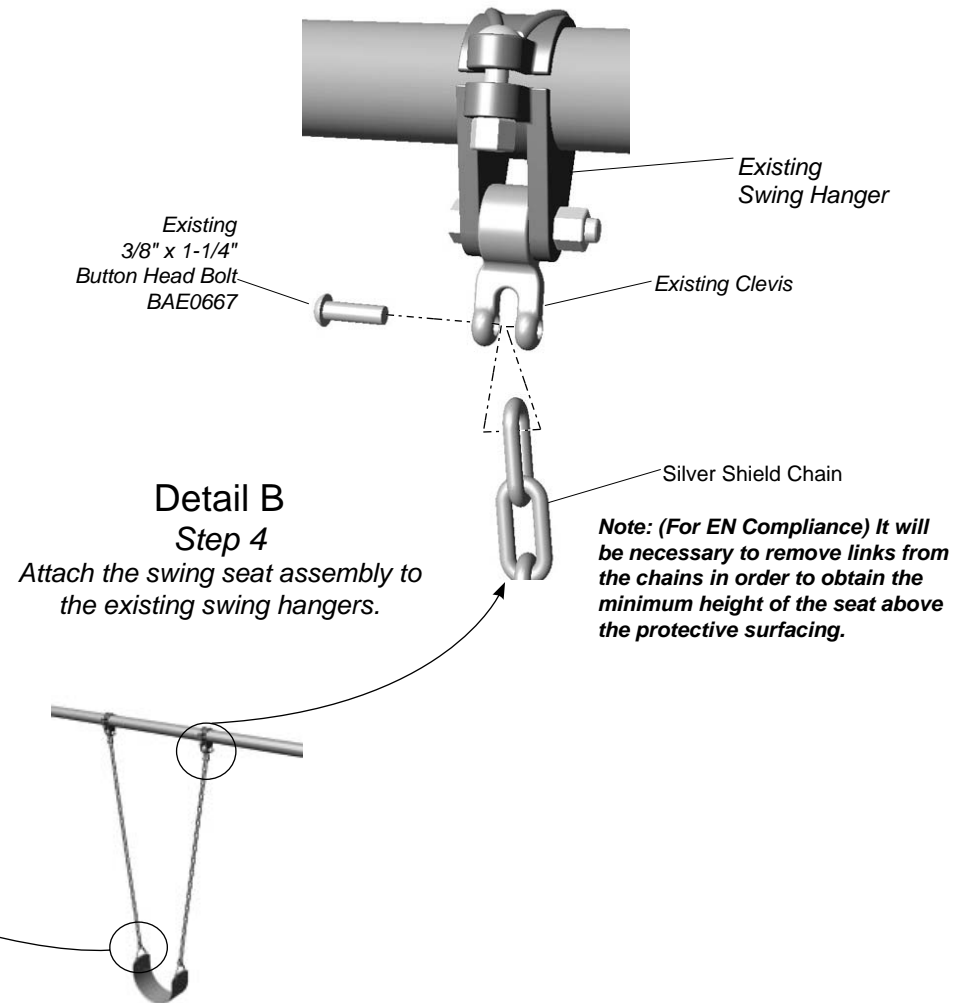
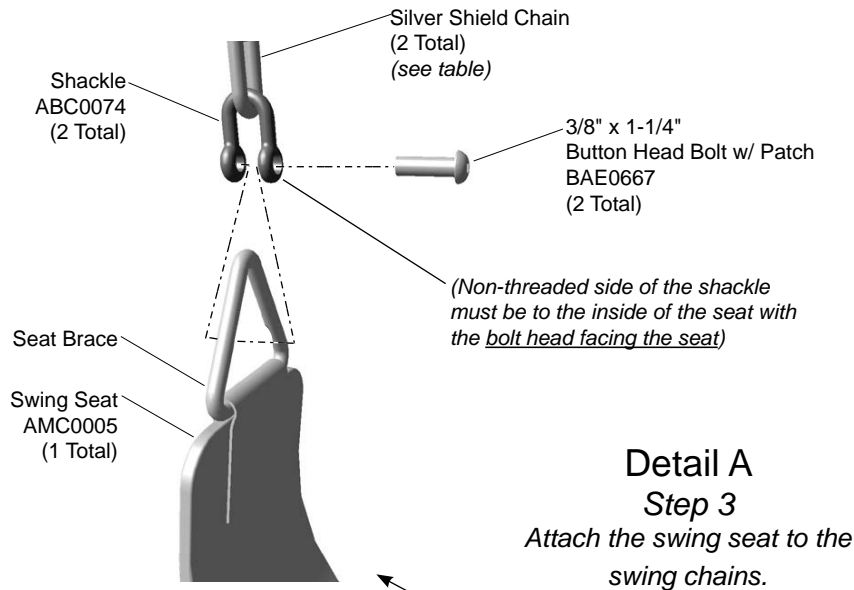
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Weight: See table below
 Use Zone: Refer to the swing frame instructions
 User Group: Ages 2 - 5 years

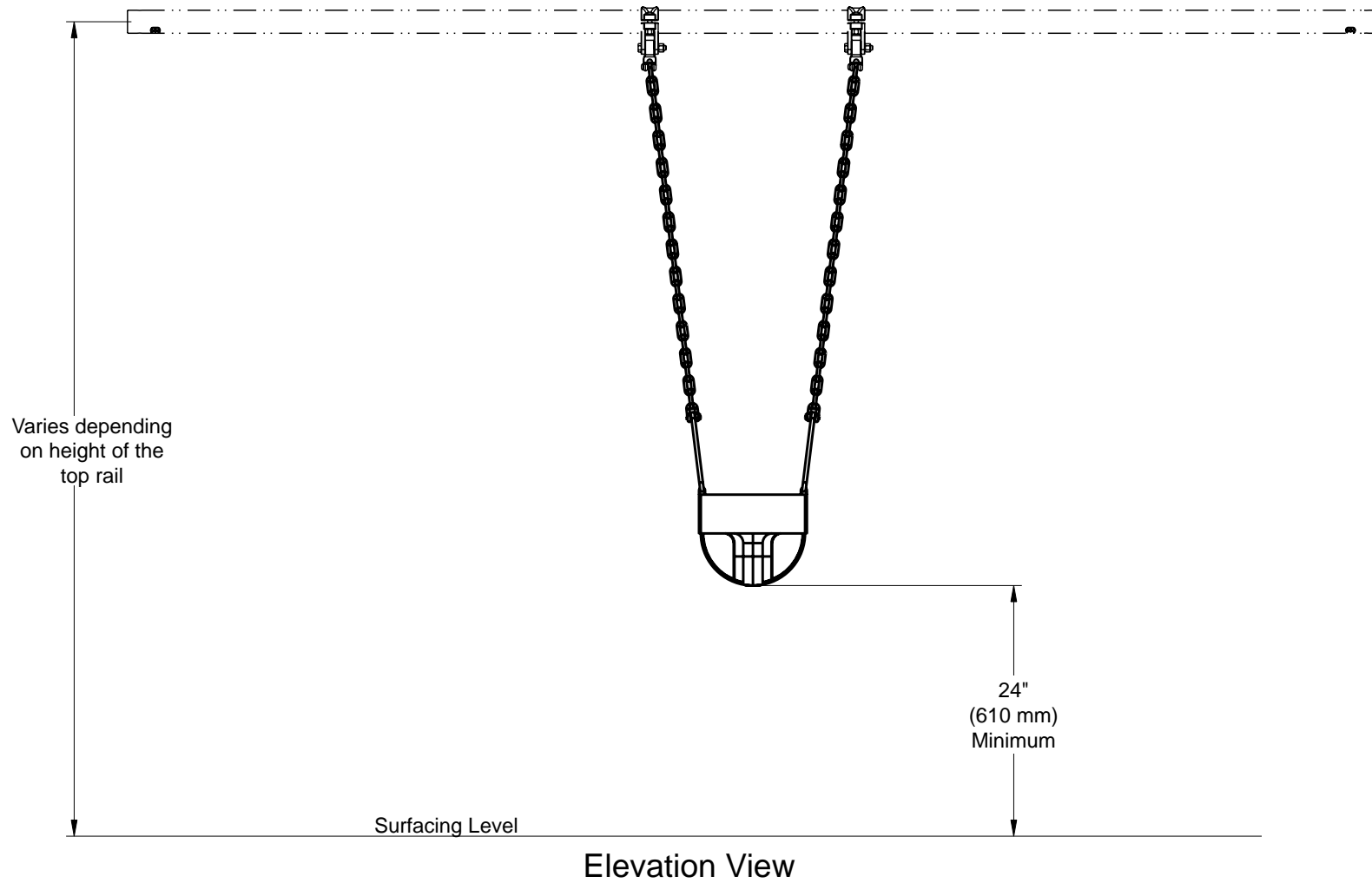
Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

ICON KEY



Fully Tighten
Hardware

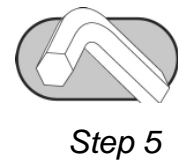
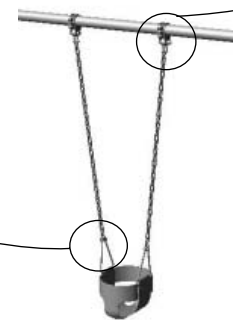
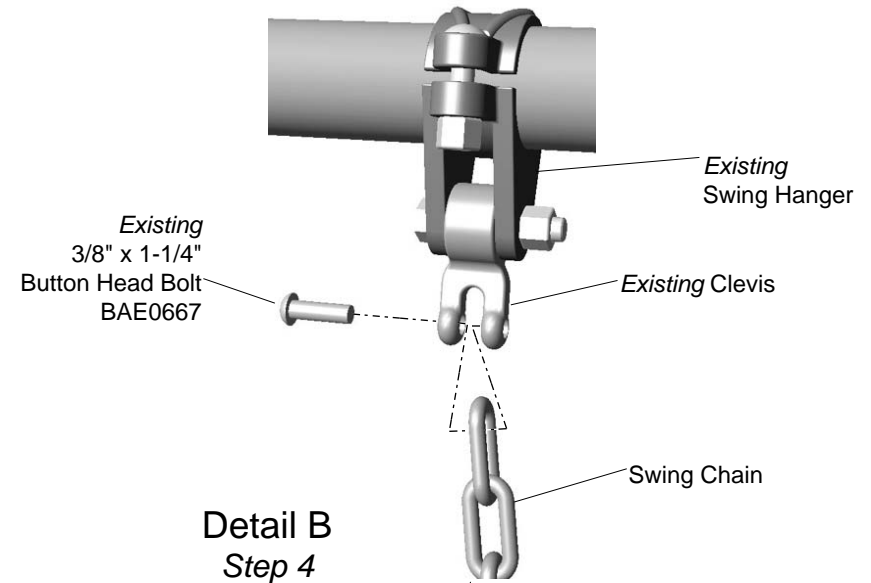
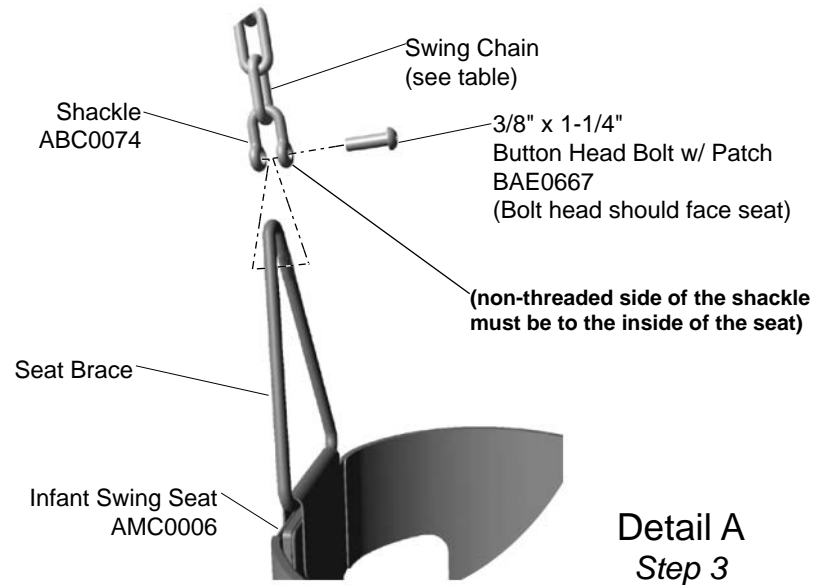
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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intentionally left blank.

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



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SYSTEMS®**
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For Customer Service, Call
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570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **... for Safety's Sake!**

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

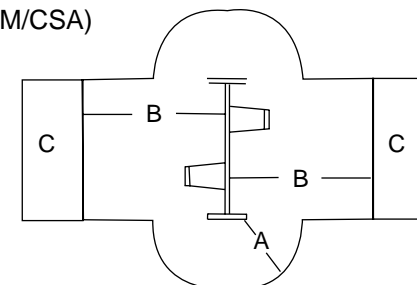
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

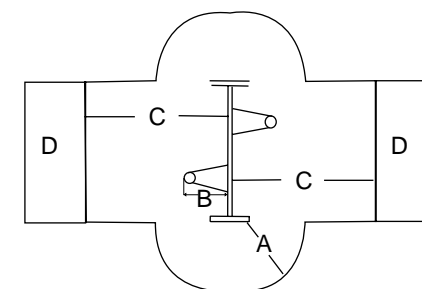
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

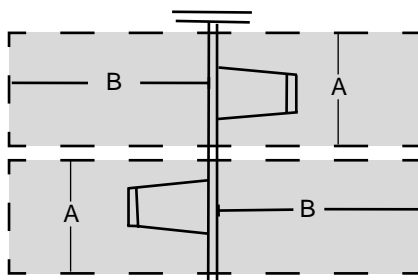
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

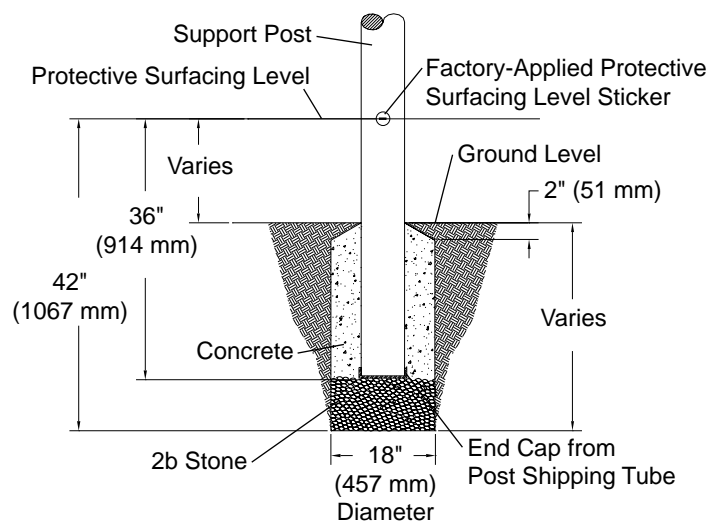
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

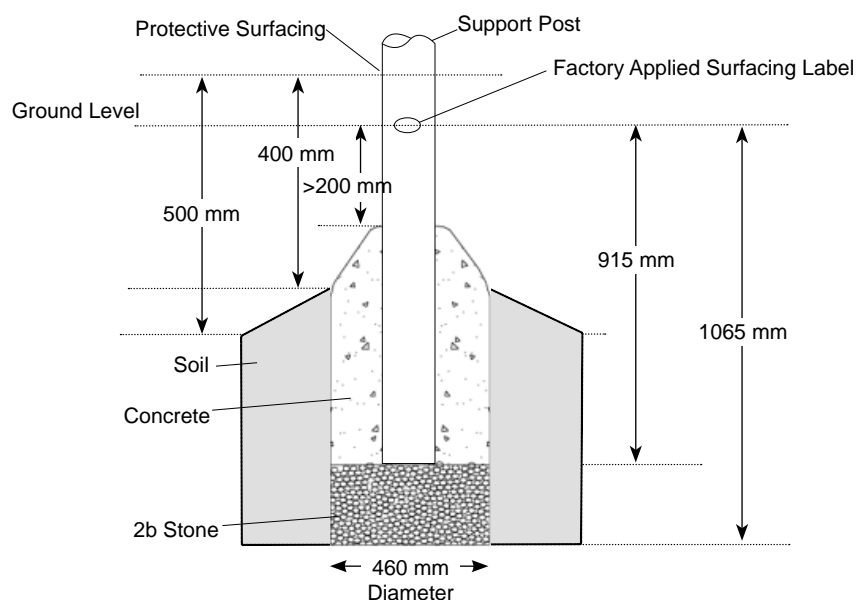
Installation Instructions



Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail Support Post (EN)



Assembly View (representative model)

Installation Instructions




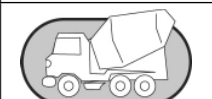



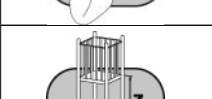
Playworld Systems® Model XX0287
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

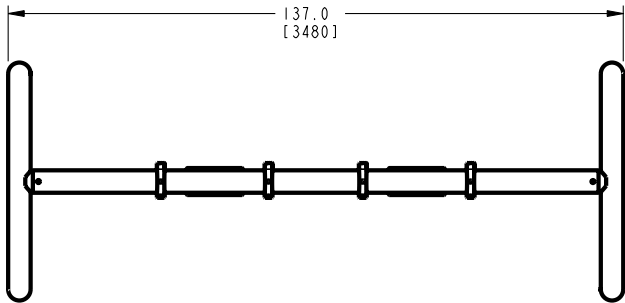
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

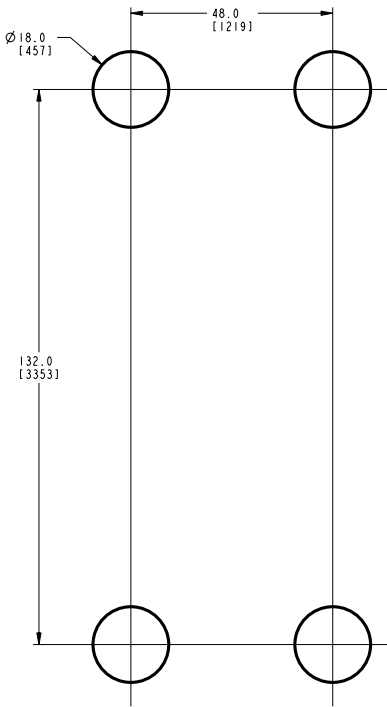
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

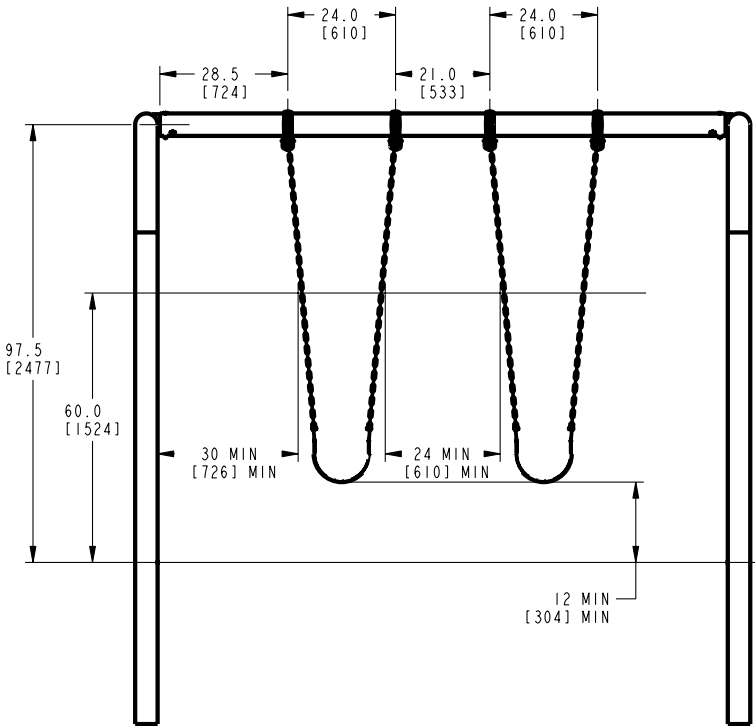
Top View



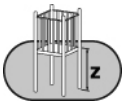
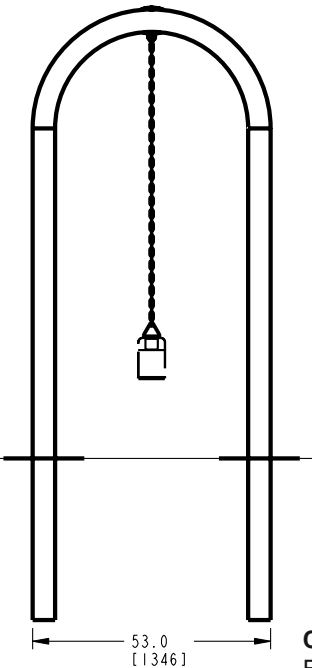
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Footing Diagram



Elevation Views

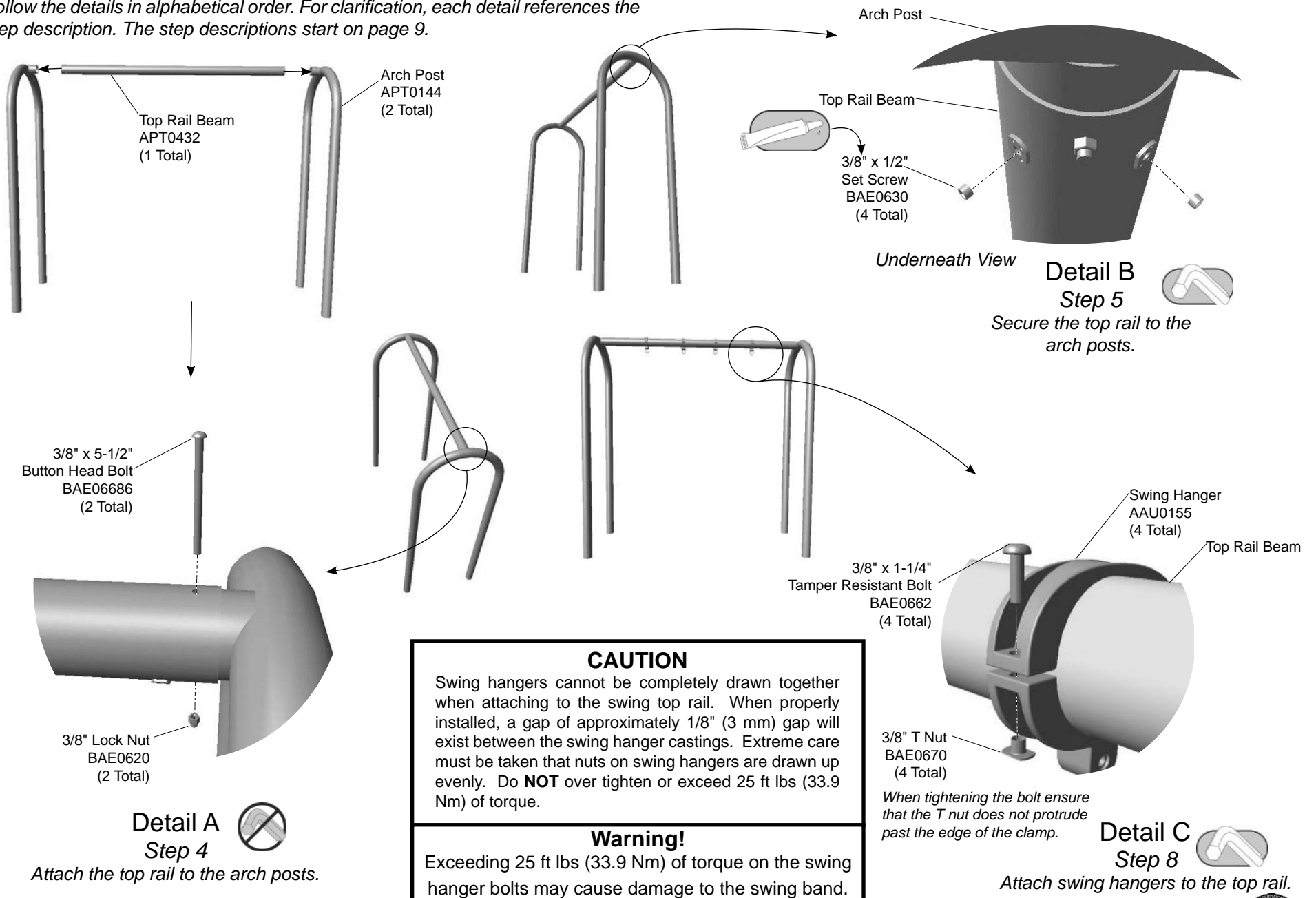


Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

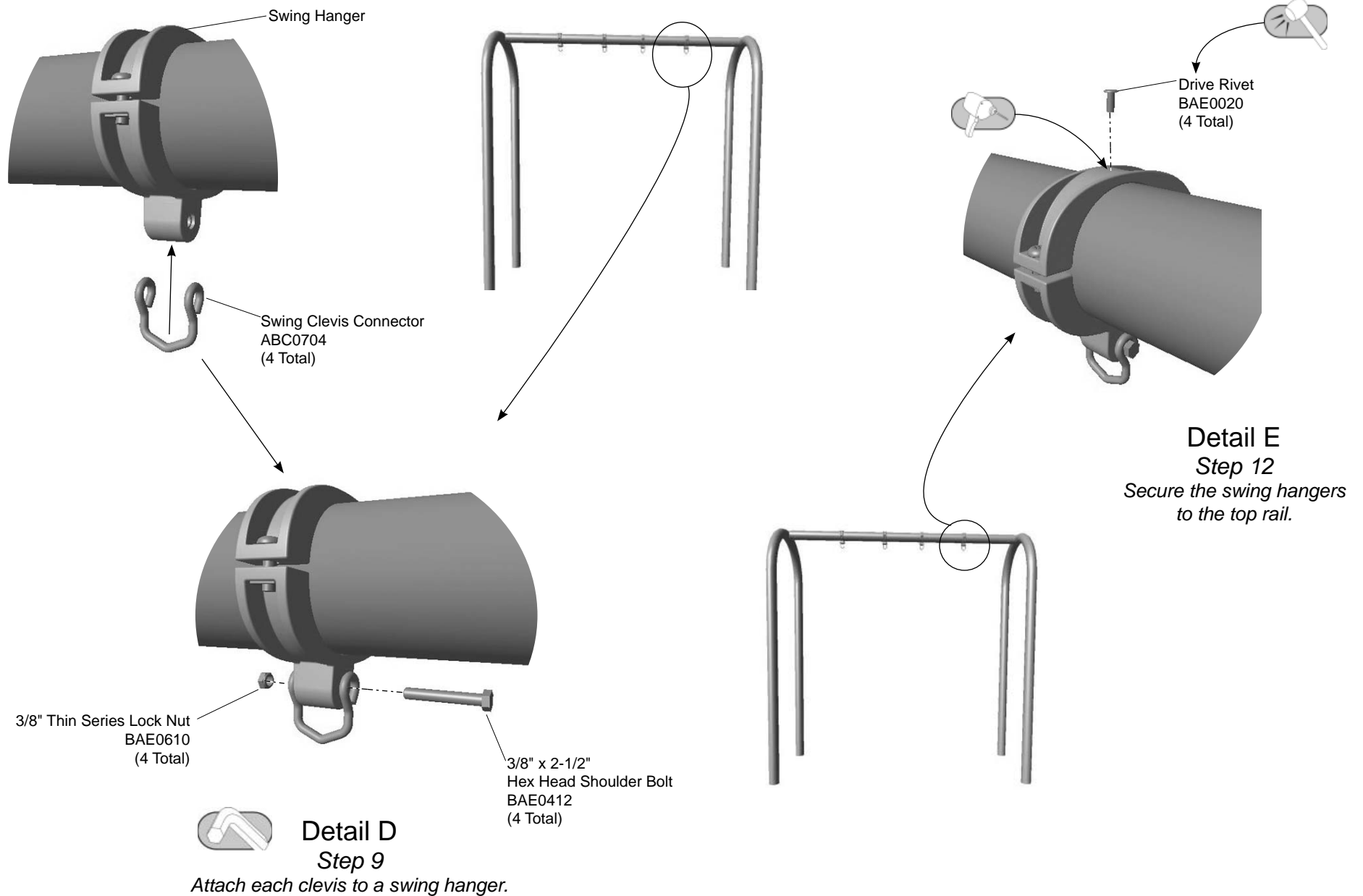


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING
8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1



Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

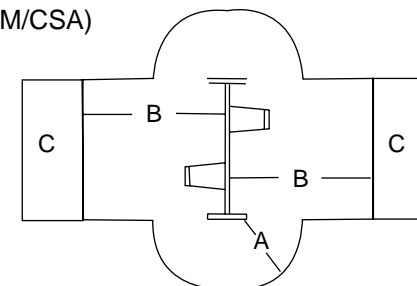
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

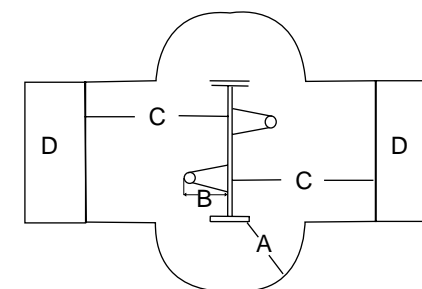
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

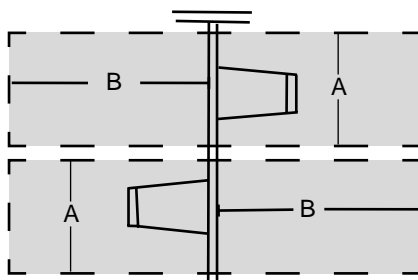
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

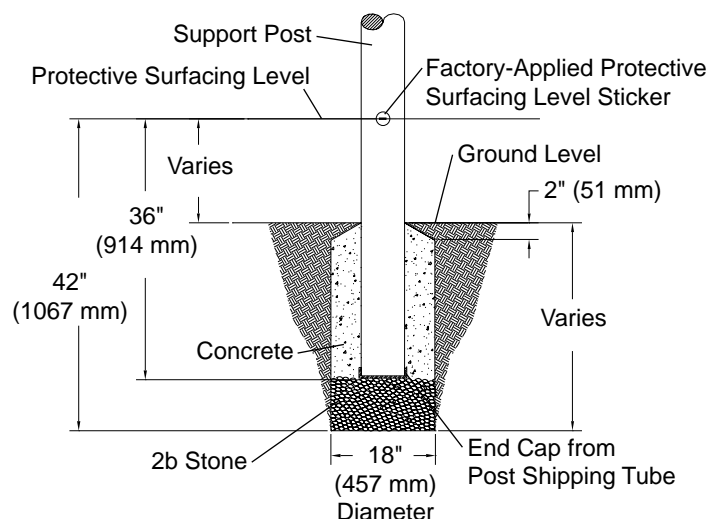
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

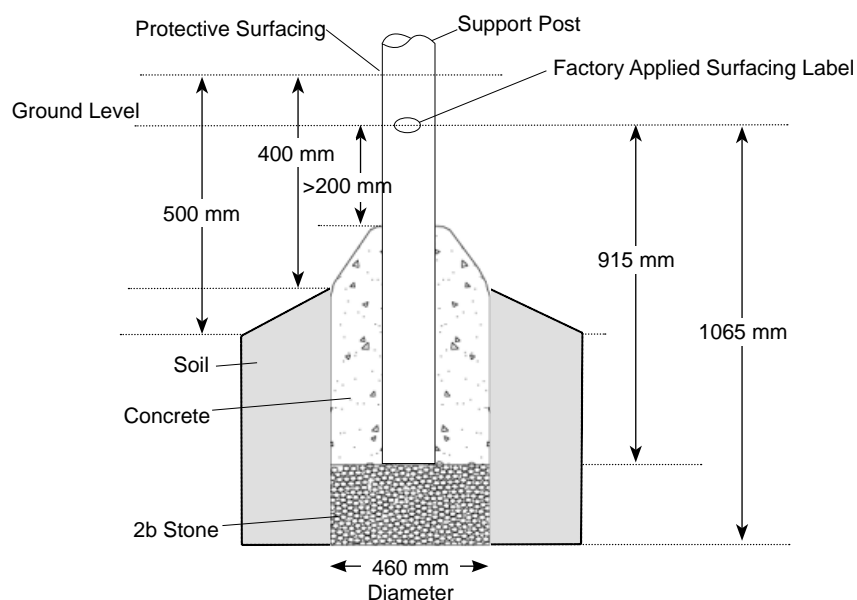
Installation Instructions



Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail Support Post (EN)



Assembly View

Installation Instructions




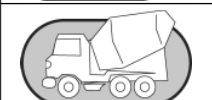



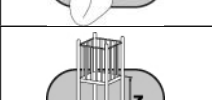
Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 2 man-hours
Weight: *156.2 lbs. (70,3 kg)
Concrete Required: 0.24 cubic yard (0,18 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

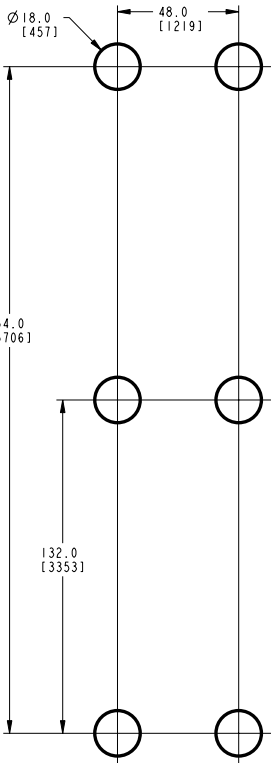
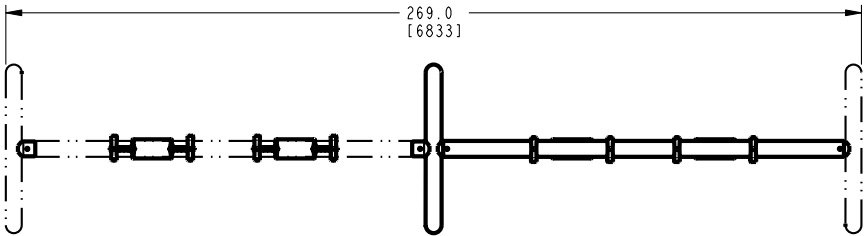
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

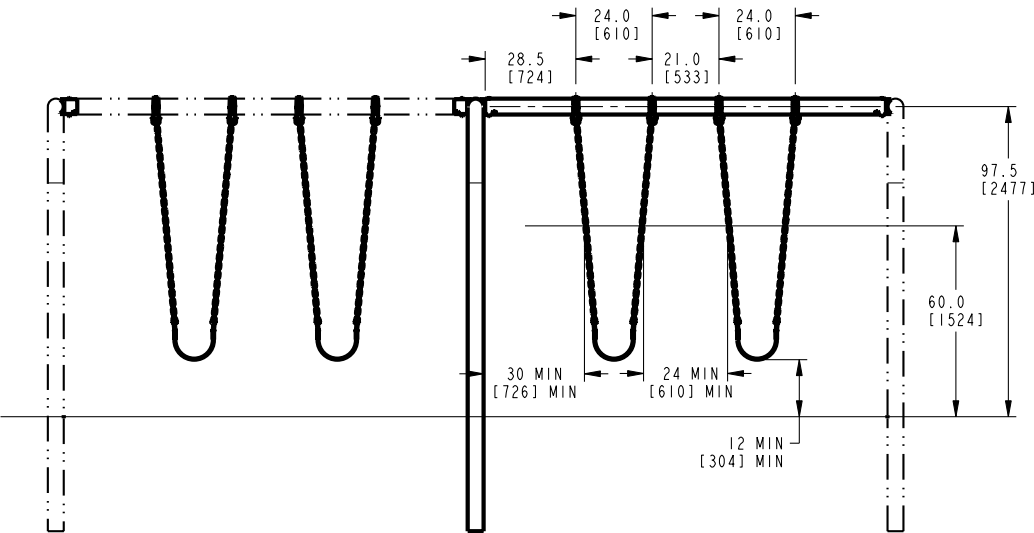
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

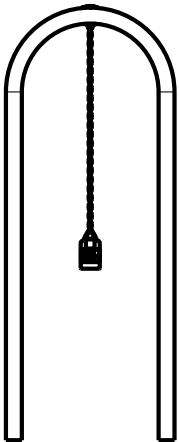


Footing Diagram

Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.

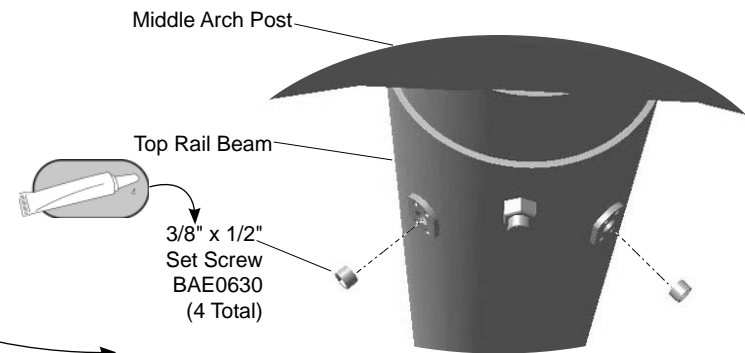
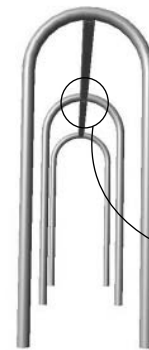
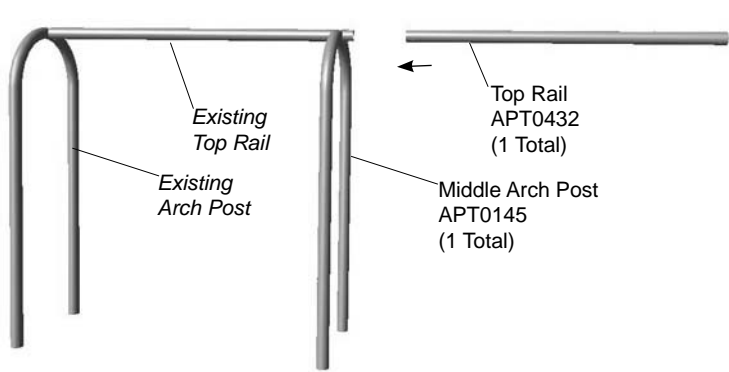


Elevation Views



Installation Instructions

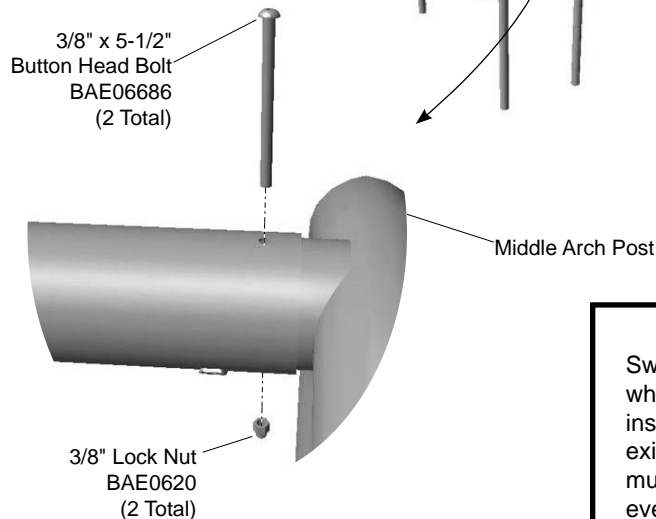
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

Detail B Step 7

Secure the top rails to the middle arch post.



Detail A Step 5

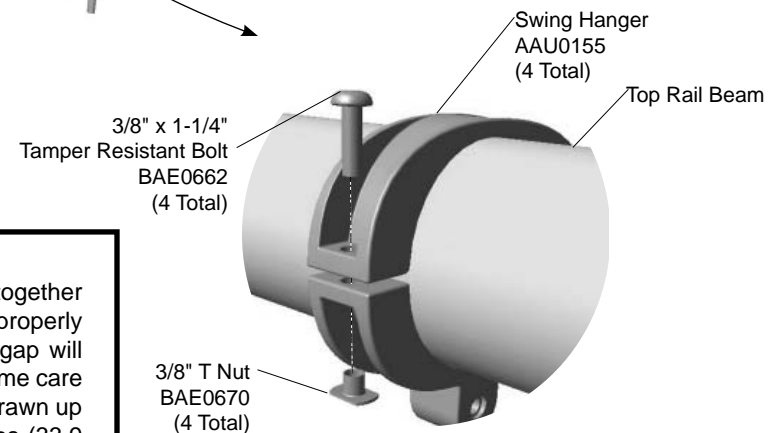
Attach both top rails (new and existing) to the middle arch support.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



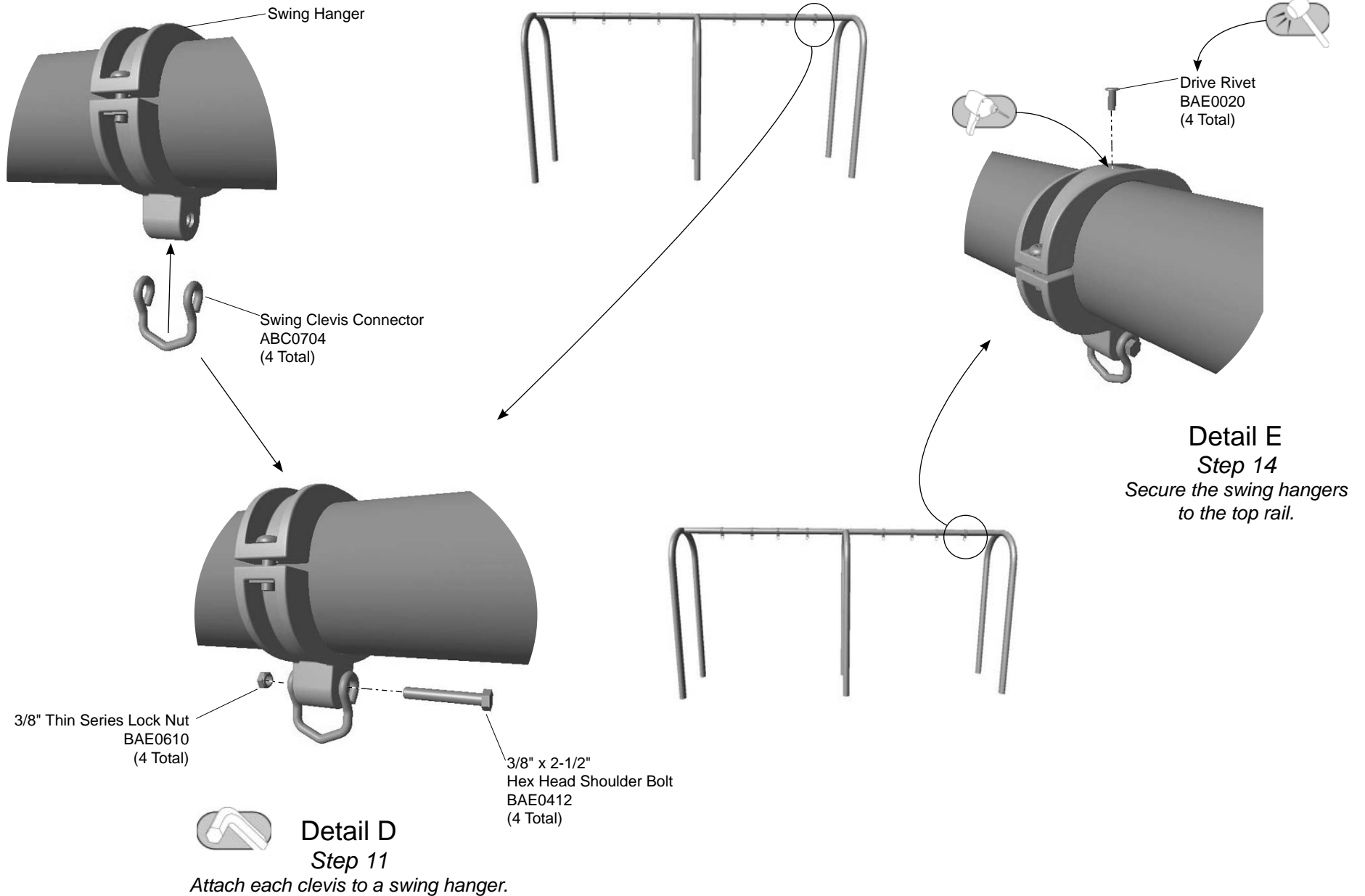
When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C Step 10

Attach swing hangers to the top rail.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1



Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

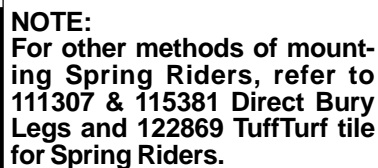
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.



Parts List

Part#	Description	Qty.
137789-00	Boxed Horse (Standard)	1
A 109447-00	Seat Panel, Red	1
B 109449-00	Long Brace, Red	2
C 109450-00	Short Brace, Red	2
D 109481-00	Body Panel, Tan	1
E 109497-00	Foot Rest Spacer, Tan	2
170327-00	Boxed Horse (Recycled)	1
A 109447-00	Seat Panel, Red/Black	1
B 109449-00	Long Brace, Red/Black	2
C 109450-00	Short Brace, Red/Black	2
D 109481-00	Body Panel, Tan/Black	1
E 109497-00	Foot Rest Spacer, Tan/Black	2
F 105752-00	Aluminum Handle, White	2
G 136479-00	Foot Rest, Brown	2
137786-00	Horse Hardware Package	1
H 100171-00	$\frac{3}{8}$ " x 1 $\frac{1}{2}$ " BHCS, SST	2
I 100176-00	$\frac{3}{8}$ " x 3" BHCS, SST	3
J 100214-00	$\frac{3}{8}$ " x 5" Hex Cap Screw	2
K 100252-00	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ " Flat Head Cap Screw, SST	2
L 100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	7
M 100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	4
N 100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	30
O 100642-00	$\frac{3}{8}$ " x 2 $\frac{1}{2}$ " Threaded Rod, SST	2
P 100643-00	$\frac{3}{8}$ " x 2 $\frac{7}{8}$ " Threaded Rod	1
Q 108184-01	Bolt Cap Part A	12
R 108185-01	Bolt Cap Part B	12
S 129692-00	$\frac{1}{2}$ " Standard Patch Nut, SST	2
T 129693-00	$\frac{1}{2}$ " Hex Jam Nut, SST	2
U 100363-00	$\frac{1}{2}$ " Flat Washer, SST	2
156845-00	Play Safe Label, 2-5 Yrs.	1
137785-00	Boxed Spring Assembly	1
V 130839-00	Right Bracket, Brown	1
W 104570-00	Left Bracket, Brown	1
X 132276-00	Spring Assembly, Brown	1
120202-00	Spring Animal Anchor Hardware Package	1
Y 100262-00	$\frac{1}{2}$ " x 6" Anchor Bolt	4
Z 100322-00	$\frac{1}{2}$ " Standard Hex Nut, SST	4
U 100363-00	$\frac{1}{2}$ " Flat Washer, SST	4

Specifications

Standard Panels:	Permalene seat panel, long brace and short brace red in color and body panel and foot rest spacer tan in color.
Recycled Panels:	Permalene seat panel, long brace and short brace red/black in color and body panel and foot rest spacer tan/black in color.
Spring:	Weldment comprised of 5 $\frac{5}{8}$ " diameter $\frac{13}{16}$ " tempered alloy steel coil. Finish: Powdercoat, brown in color.
Brackets:	Fabricated from formed 7 GA (.179") HRS. Finish: Powdercoat, brown in color.
Base Plate:	Fabricated from $\frac{1}{4}$ " x 10" HRPO formed plate. Finish: Powdercoat, brown in color.
Footrest:	Cast from 356-T6 aluminum alloy. Finish: Powdercoat, brown in color.

Specifications are subject to change without notice.

Kids In Motion 100016 TuffRider Horse

Bolt Caps: Made from injection molded polypropylene, U.V. stabilized, white in color.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 3 man hours

Concrete Req.: Approx. 10 cu. ft.

Area Req.: 13'-0" x 15'-0" (3,96 m x 4,57 m) minimum use zone

Weight: 63 lbs.

Seat Height: 16 $\frac{3}{4}$ " (0,43 m)

Installation Instructions

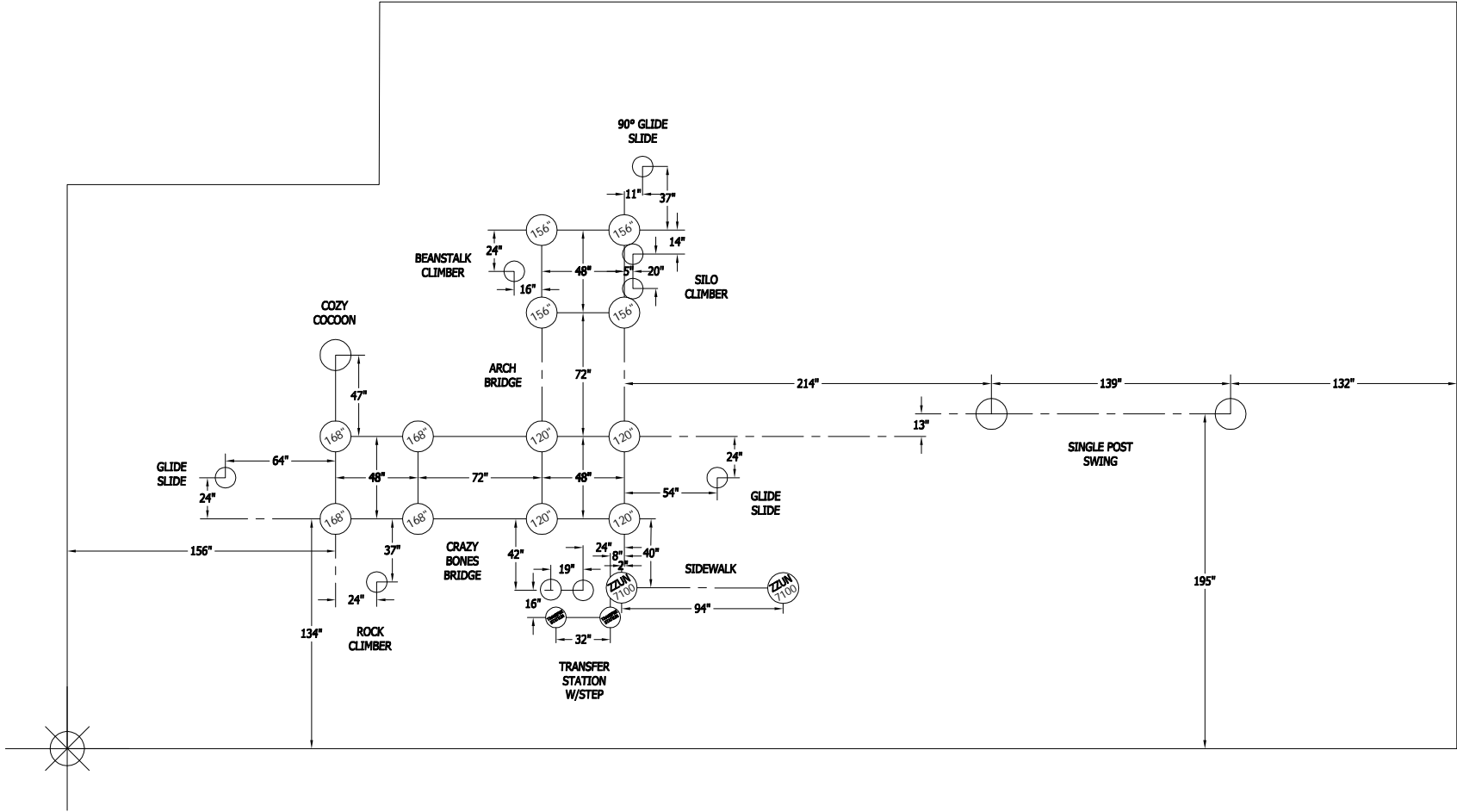
NOTE: For other methods of mounting Spring Riders, refer to 111307 & 115381 Direct Bury Legs and 122869 TuffTurf tile for Spring Riders.

Surface Mounting On Concrete Slab

- Using the spring base plate as a pattern, make a plywood template for anchor bolt placement.
- Attach $\frac{1}{2}$ " x 6" anchor bolts (**Y**) with $\frac{1}{2}$ " flat washers and $\frac{1}{2}$ " standard hex nuts (**U,Z**) to holes in template. Allow $\frac{3}{4}$ " to $\frac{7}{8}$ " of thread to protrude from concrete.
- Pour concrete slab and lay template on surface in level position. Push anchor bolts into concrete, allowing 72 hours before template removal.
- Attach spring assembly (**X**) to anchor bolts in concrete with $\frac{1}{2}$ " standard hex nuts (**Z**) and $\frac{1}{2}$ " flat washers (**U**).
- Attach left bracket (**W**) and right bracket (**V**) to spring assembly (**W**), with $\frac{1}{2}$ " flat washers (**U**), $\frac{1}{2}$ " patch nuts (**S**) and $\frac{1}{2}$ " hex jam nuts (**T**). Do not tighten.
- Fasten the long braces (**B**) to body (**D**) with $\frac{3}{8}$ " x 3" BHCS (**I**), bolt caps part A (**Q**) and $\frac{3}{8}$ " standard hex nuts (**L**) with $\frac{3}{8}$ " SAE flat washers (**N**).
- Add short braces (**C**) to body (**D**) and set in bracket assembly. Fasten with $\frac{3}{8}$ " x 5" hex cap screws (**J**), bolt caps part A (**Q**) and $\frac{3}{8}$ " standard hex nuts (**L**) with $\frac{3}{8}$ " SAE flat washers (**N**).
- Attach seat (**A**) to flanges on brackets with $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " flat head cap screws (**K**) $\frac{3}{8}$ " SAE flat washers (**N**) and $\frac{3}{8}$ " standard hex nuts (**L**).
- Attach footrests (**G**) to body (**D**) placing footrest spacers (**E**) in place as shown on the front of this sheet. Attach using $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " threaded rod (**M**) and $\frac{3}{8}$ " flange nuts w/pin (**M**).
- Thread $\frac{3}{8}$ " x 2 $\frac{7}{8}$ " threaded rod (**P**) through body and into handbars (**F**) until snug, then turn handbars to match up to holes, as shown. Fasten other ends of handbars with $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " BHCS (**H**), bolt caps part A (**Q**) and $\frac{3}{8}$ " SAE flat washers (**N**).
- Final tighten all fasteners. Snap on bolt caps part B (**R**) to bolt caps part A (**Q**) by hand or with rubber mallet.
- Install protective surfacing before users are allowed to play on the component. A minimum of 2" of protective surfacing should cover base plate and anchor bolts.

BERNIE'S BEACH PARK
PLAYGROUND MANUFACTURER'S INSTALLATION INFORMATION

*Playground Supervision Required



PROJECT NO: BERNIES	REV: -	DATE: 11-FEB-15
SYSTEM: PLAYMAKERS		SCALE: 1/8" = 1'-0"
FOOTING PLAN		DRAWN BY: DANA GRUBBS

LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523



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FOOTING LEGEND	
	= COMPONENT FOOTING (DETAIL 3)
	= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
	= SUPPORT POST FOOTING (DETAIL 1 or 4) (112" (2845mm) INDICATES POST LENGTH)
	= CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2) (ZZCH1850 INDICATES PART NUMBER)
	= GROUND ZERO POST FOOTING (DETAIL 2) (144" (3659mm) INDICATES POST LENGTH)

BERNIES BEACH



Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

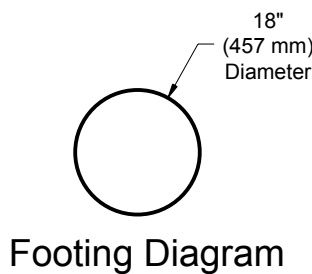
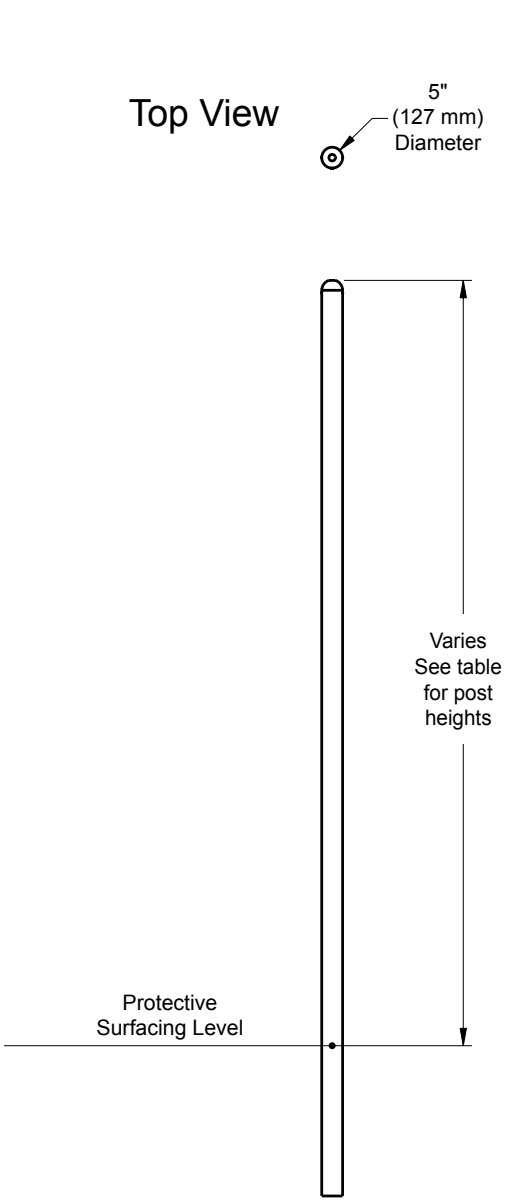


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A,
PM0047A, PM0057A, PM0067A, PM0079A, PM0129A,
PM0136A, PM0138A, PM0267A, PM0269A

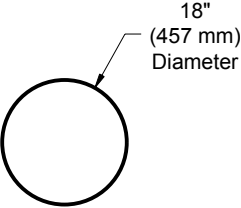
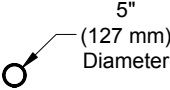
Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

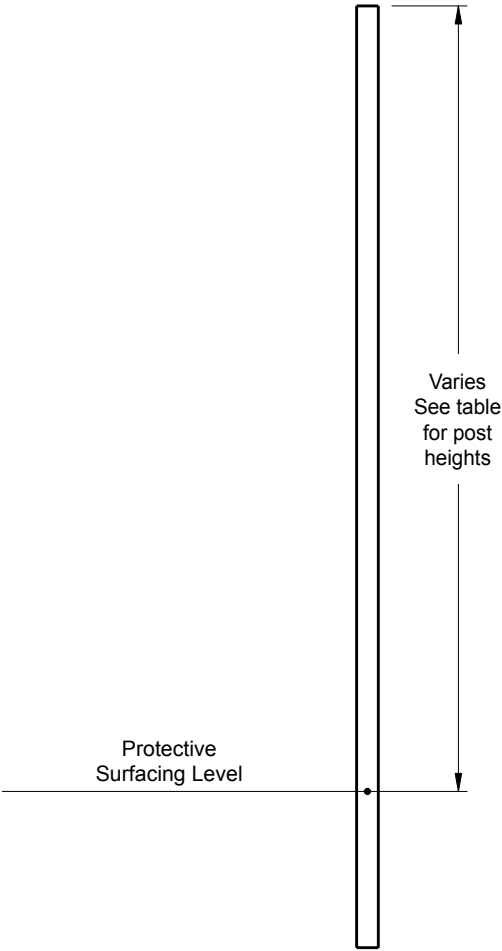
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 kg)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



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Assembly View *(representative model)*

Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A,
PM0047A, PM0057A, PM0067A, PM0079A, PM0129A,
PM0136A, PM0138A, PM0267A, PM0269A

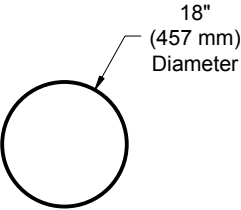
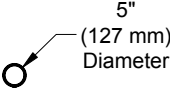
Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

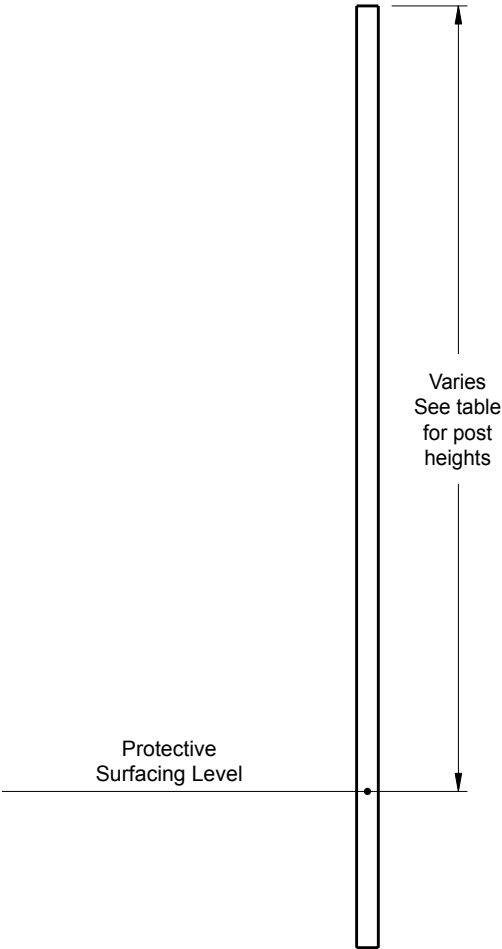
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 kg)



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1

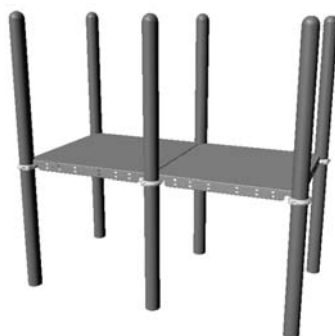


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Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616
Square Deck



ZZPM0629
Long Deck

Assembly View

Installation Preparation

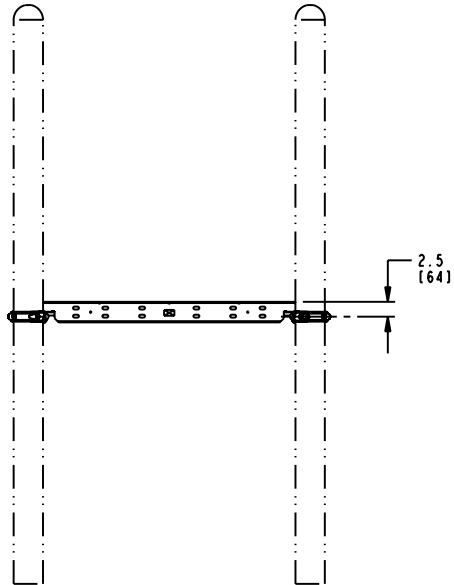
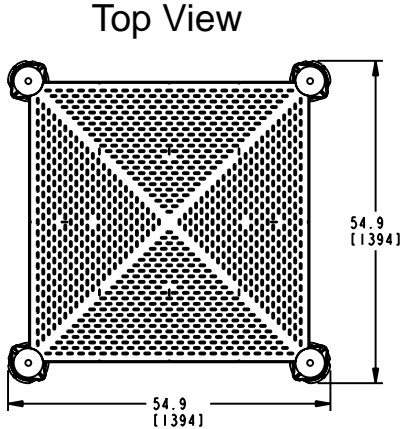
Recommended Crew (PM0616):..... Two (2) adults
Recommended Crew (PM0629):..... Four (4) adults
Installation Time (PM0616): 1 man-hour
Installation Time (PM0629): 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

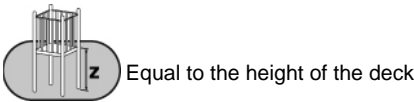
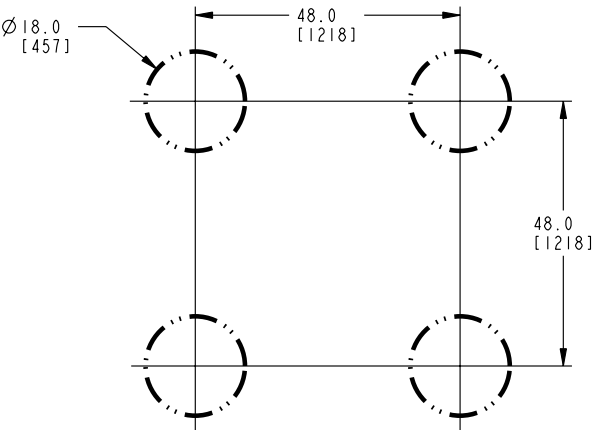
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

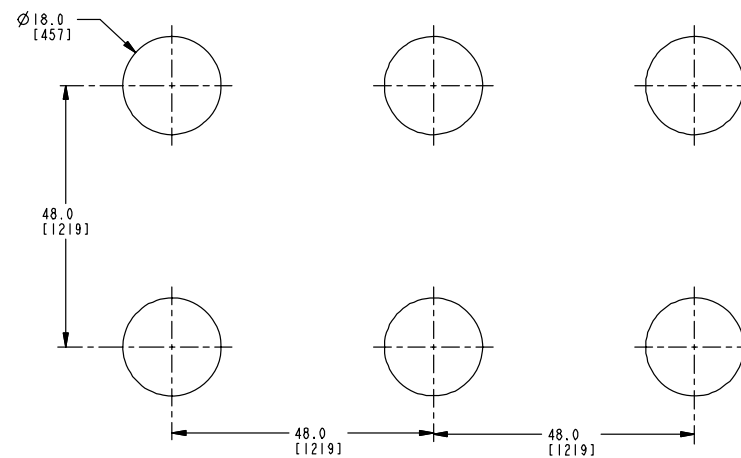
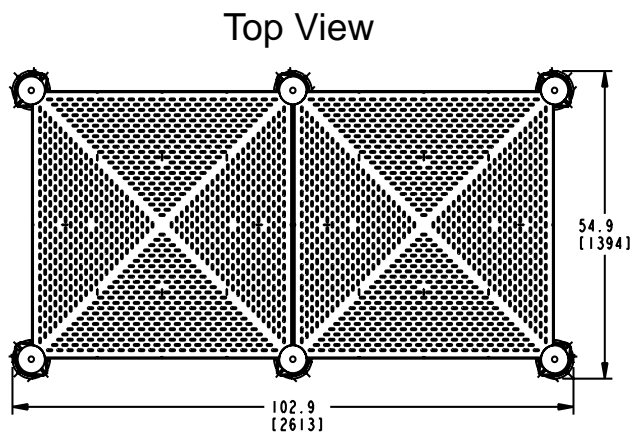


Elevation View
Model PM0616

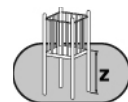
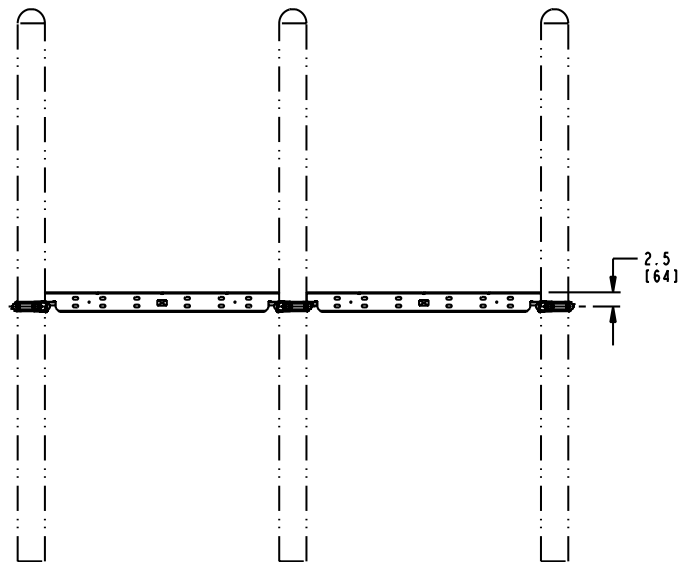


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



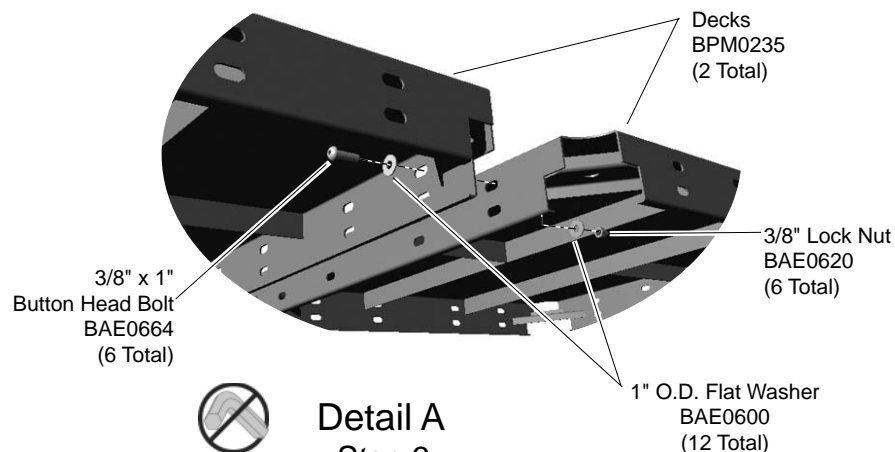
Equal to the height of the deck

Elevation View
Model PM0629



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

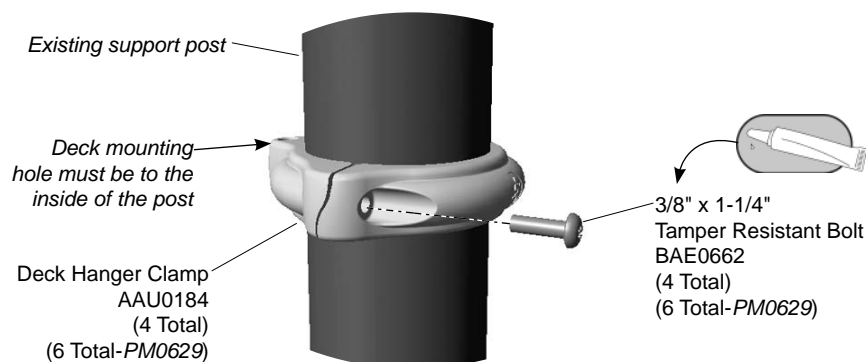


Detail A

Step 3

(Model PM0629 Only)

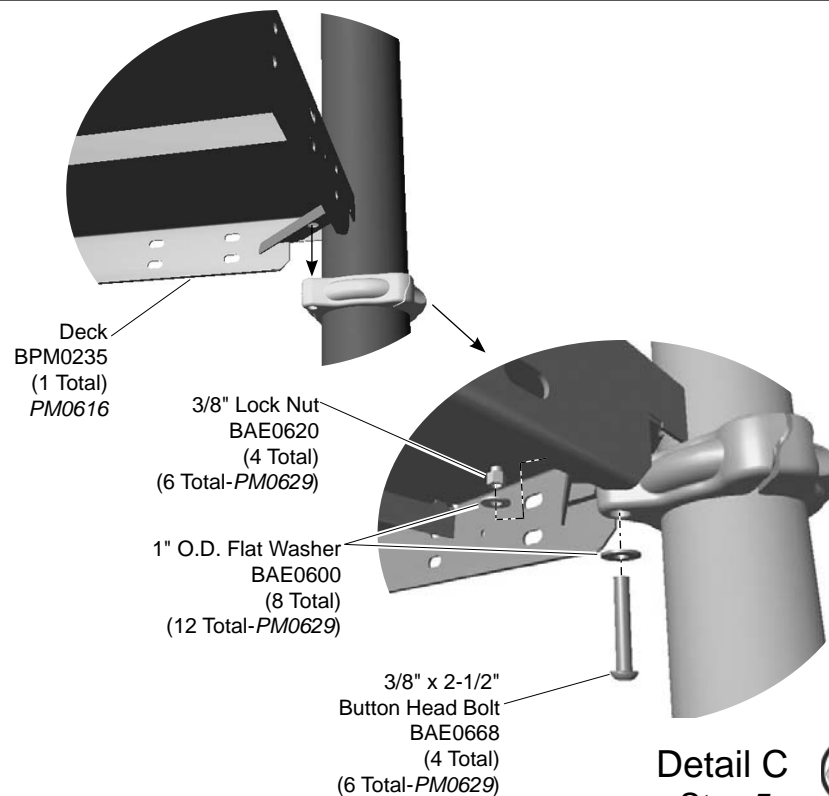
Attach the two decks together.



Detail B

Step 4

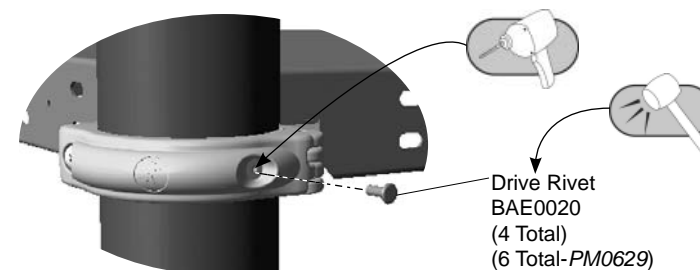
Attach the deck clamps to the support posts.



Detail C

Step 5

Attach the decks to the clamps.



Detail D

Step 7

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: (Model PM0629 Only) Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0235	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



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Assembly View (representative model)

Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S
36 in. (914 mm) Transfer Station and
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (In-Ground): 3 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.09 cubic yard (0,07 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

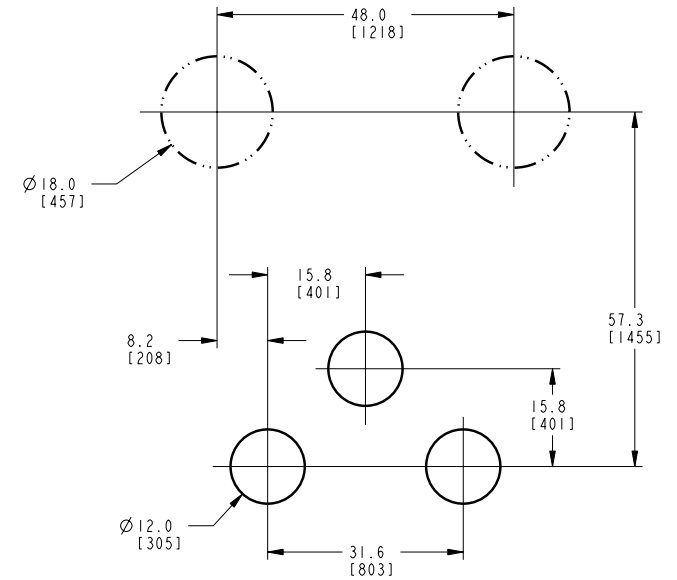
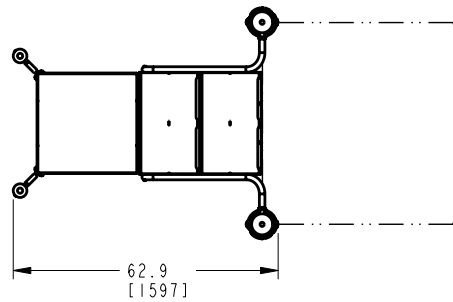
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

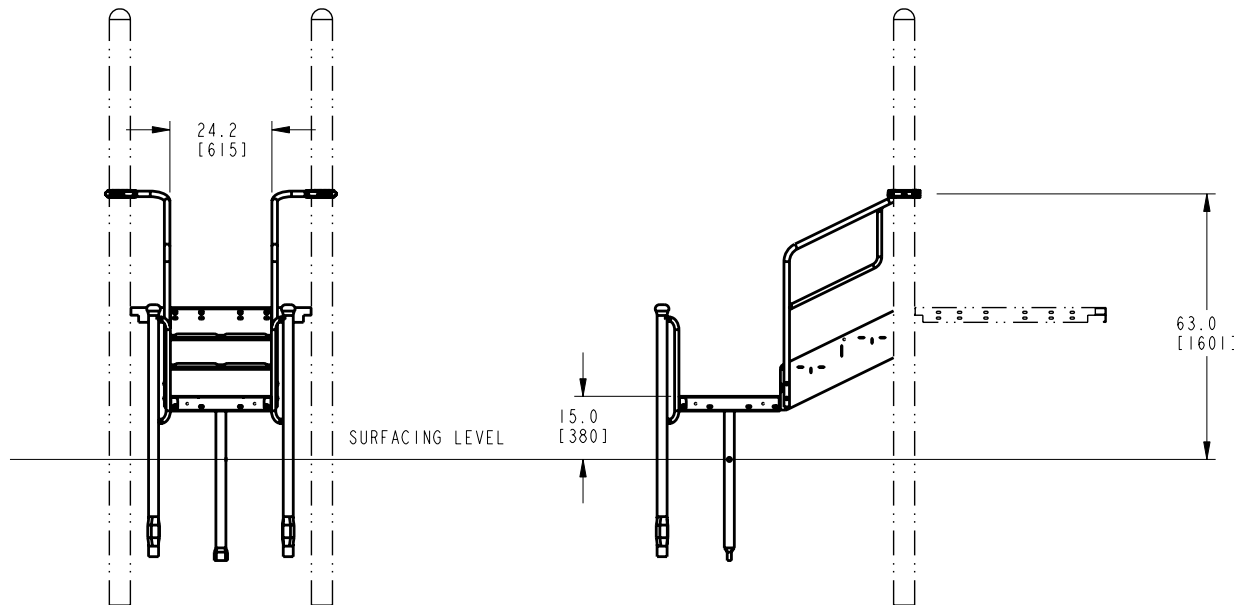
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

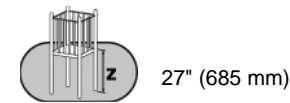
Top View



Footing Diagram



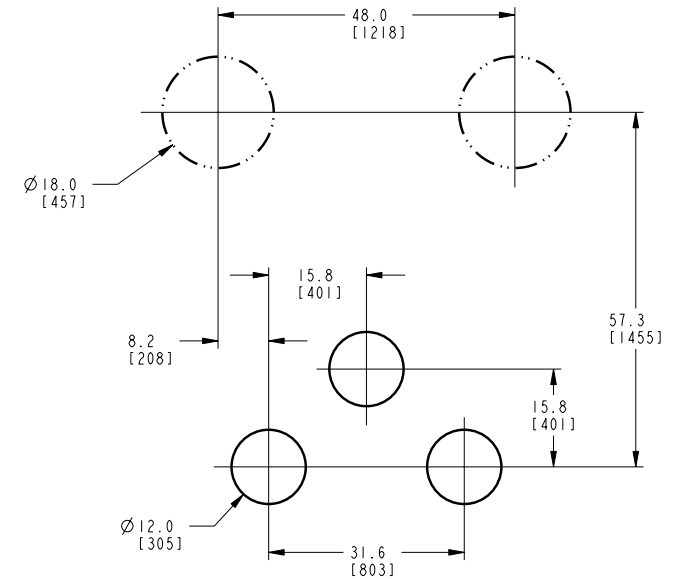
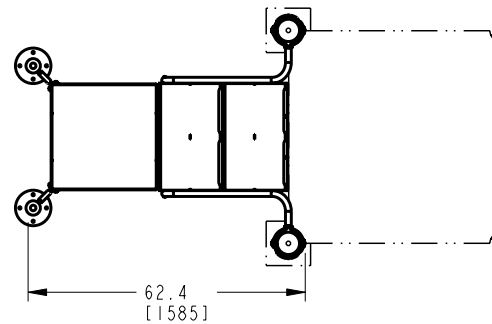
Elevation View
PM2006



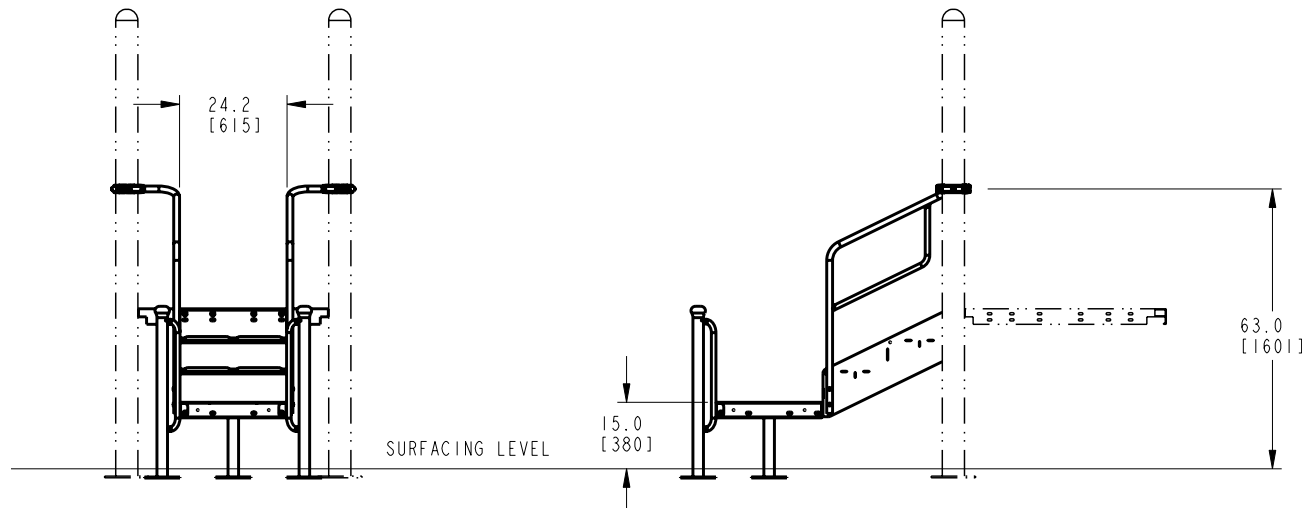
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

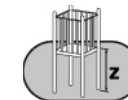
Top View



Footing Diagram



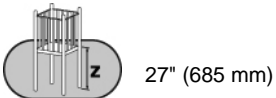
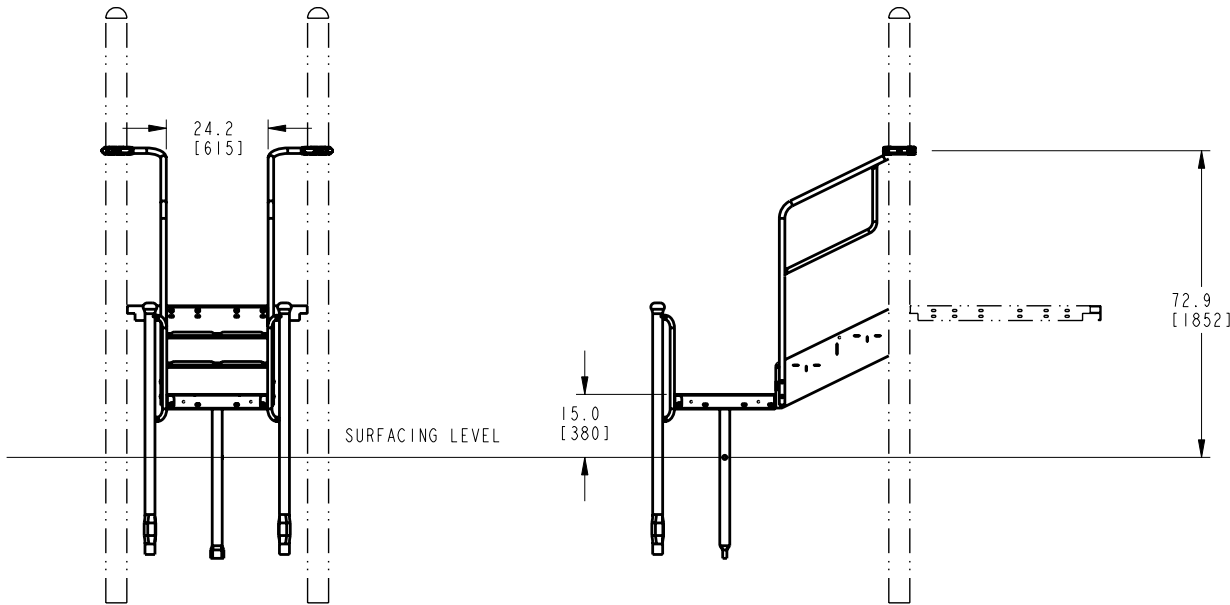
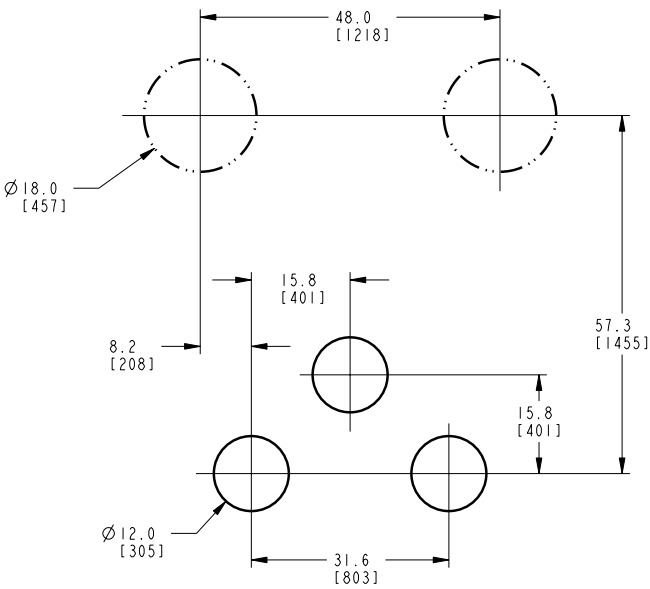
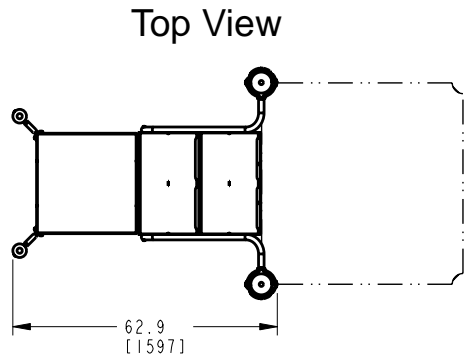
Elevation View
PM2006S



27" (685 mm)

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



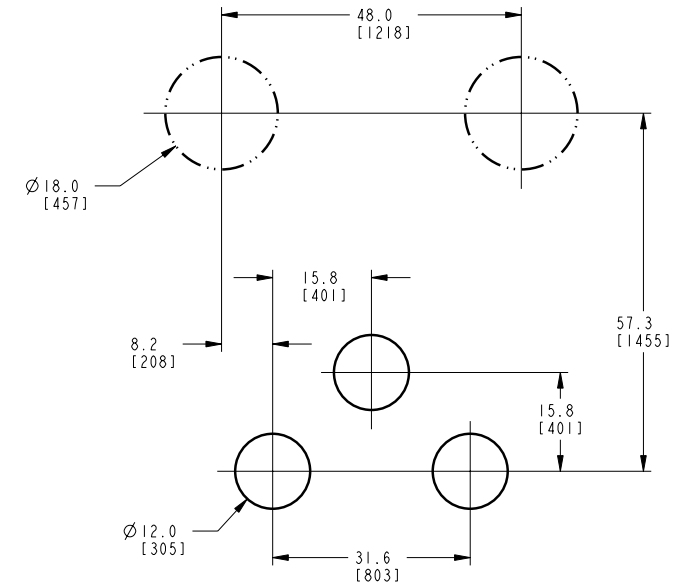
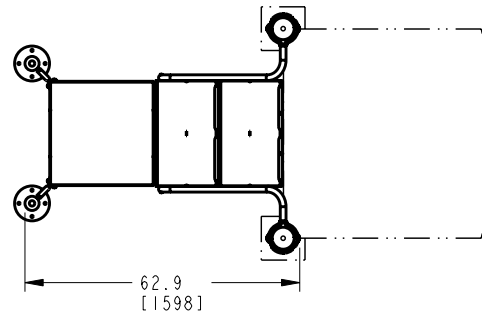
Elevation Views
PM2007



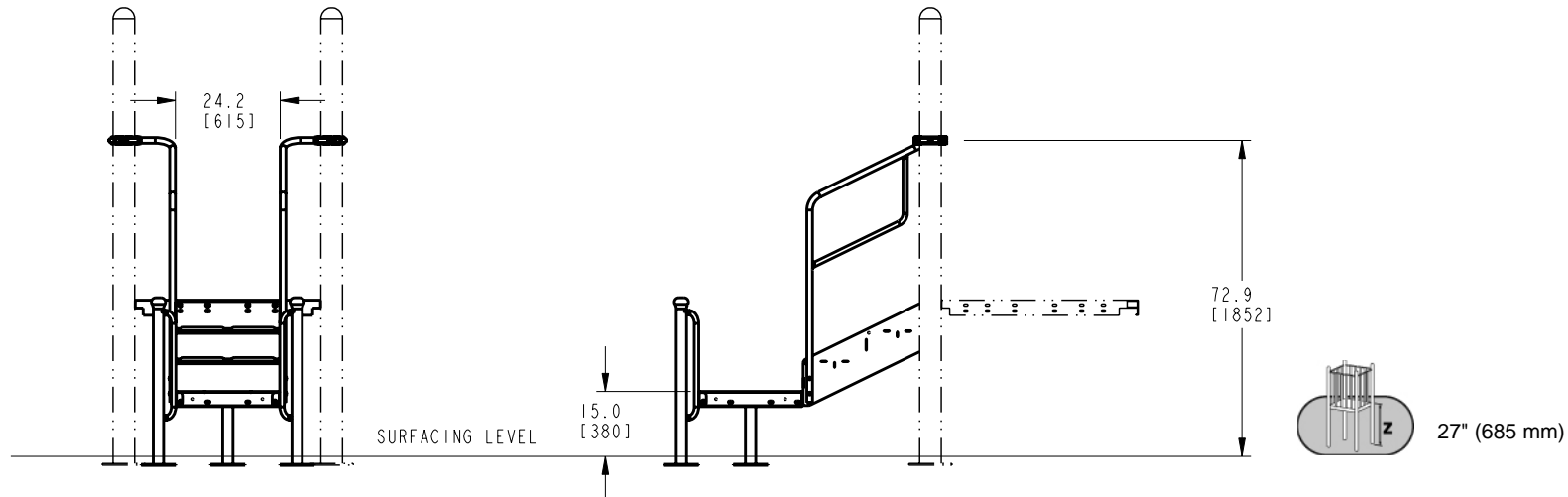
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



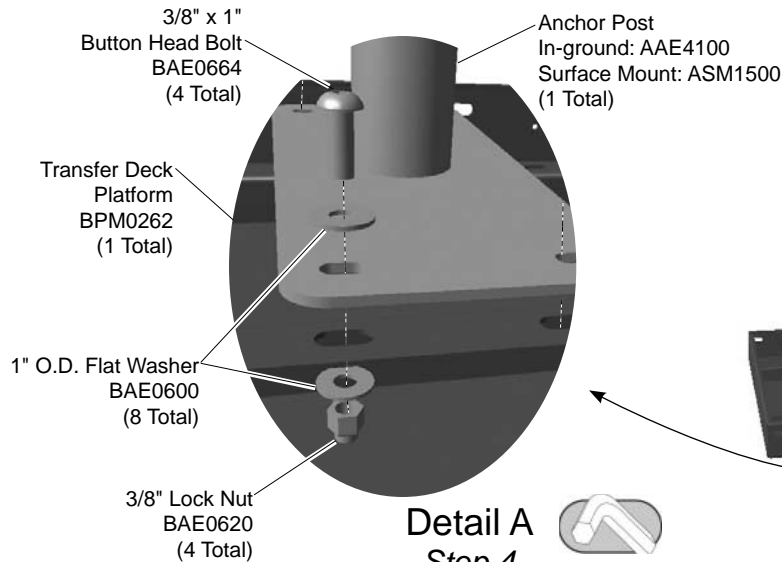
Footing Diagram



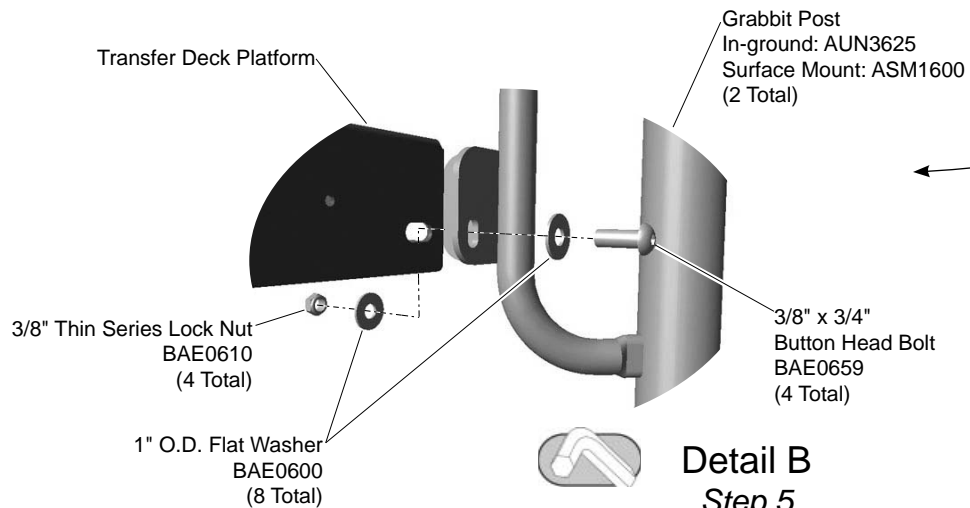
Elevation Views
PM2007S

Installation Instructions

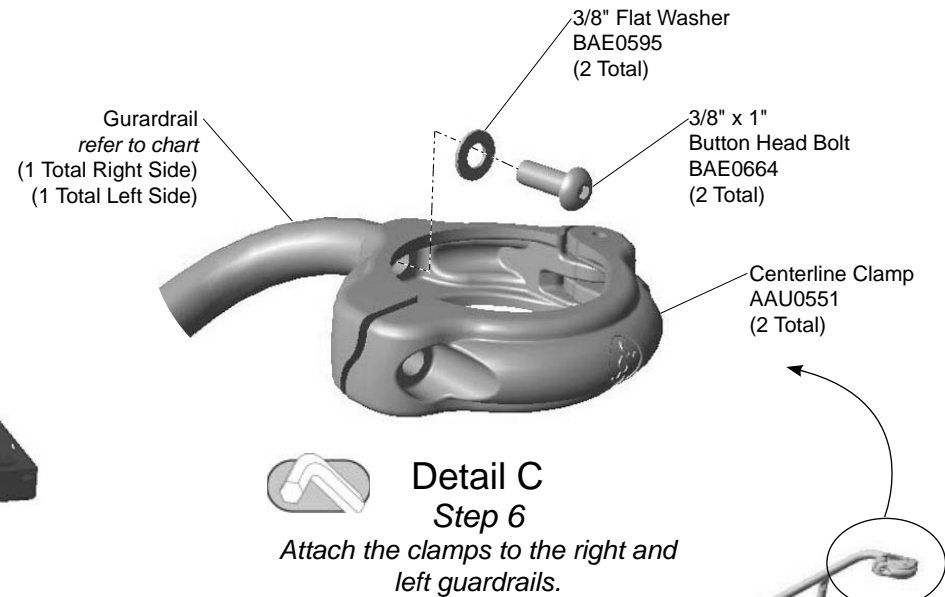
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4
Attach the anchor post to the transfer deck.



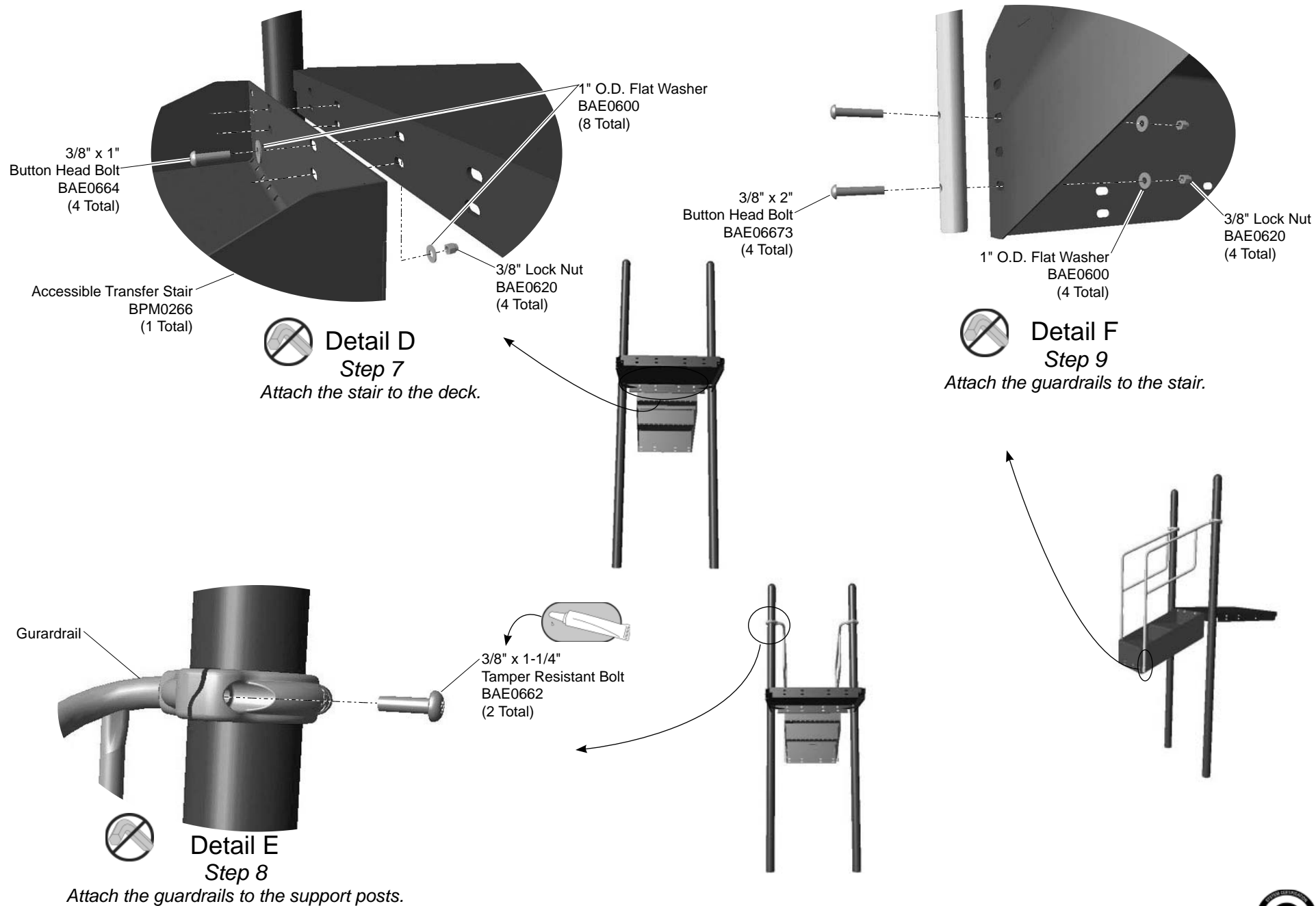
Detail B
Step 5
Attach the grabbit post to the platform.



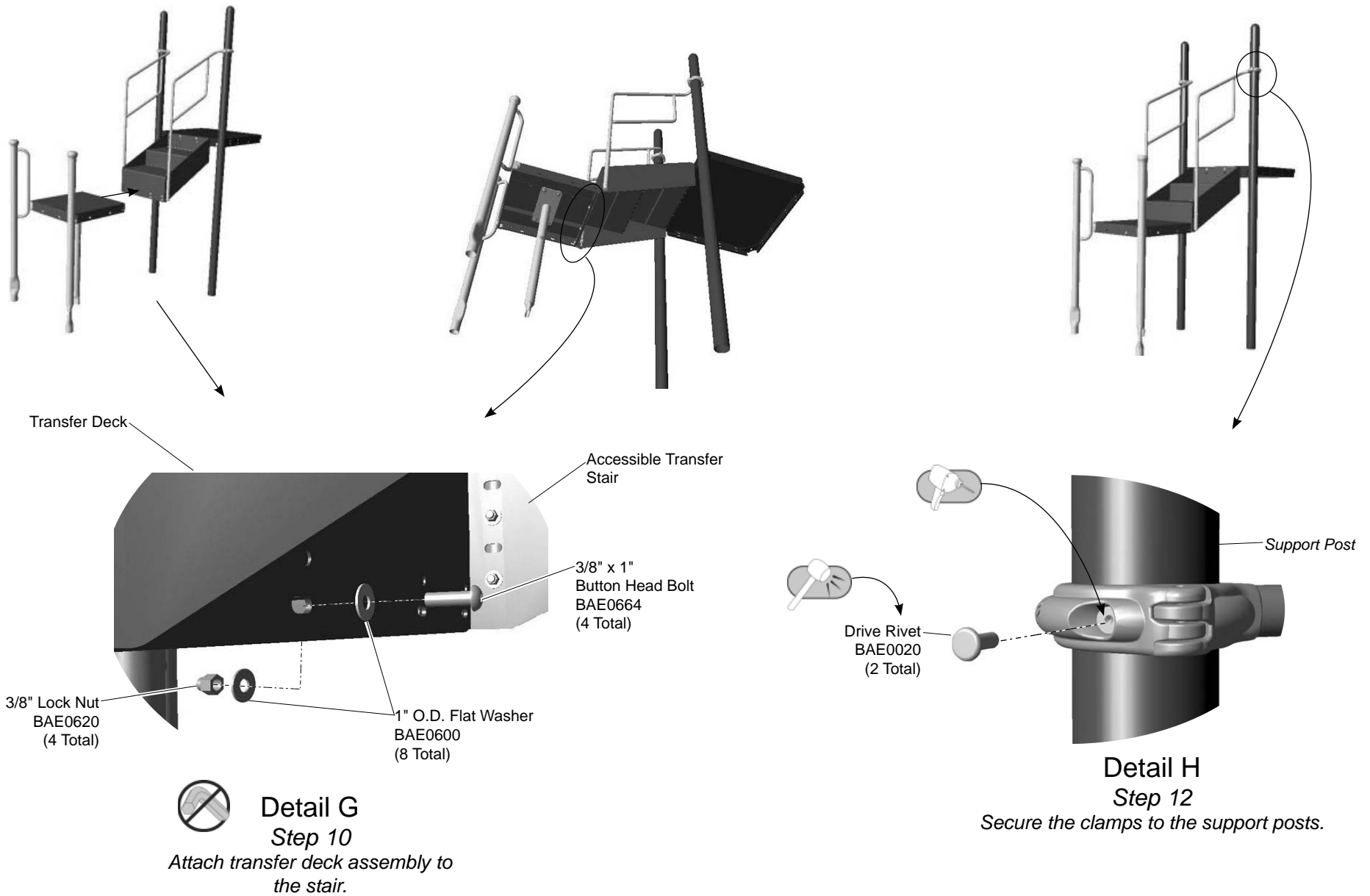
Detail C
Step 6
Attach the clamps to the right and left guardrails.

Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056

Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

Attach the anchor post to the transfer deck.

Step 4: Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbites to transfer deck.

Step 5: Attach grabbites to transfer deck. See **Detail B**. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.

Step 6: Attach the clamps to guardrails. See **Detail C**. Position the end of each guardrail top rail against the neck of each clamp and attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

Step 7: Attach the stairs to existing support deck. See **Detail D**. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.

Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.

The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.

Step 9: Attach the guardrails to the stair. See **Detail F**. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

Step 10: Attach transfer deck assembly to the stair. See **Detail G**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBL COATED TRANSFER w/SLOTS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBLE COATED TRANSFER w/SLOTS	1

ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSIBLE COATED TRANSFER w/SLOTS	1



Assembly View

Installation Instructions







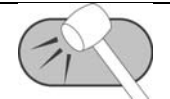
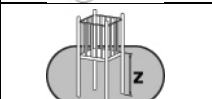
Universal Model UN2019

Platform Approach Step

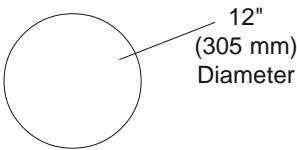
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 40.4 lbs. (18,2 kg)
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

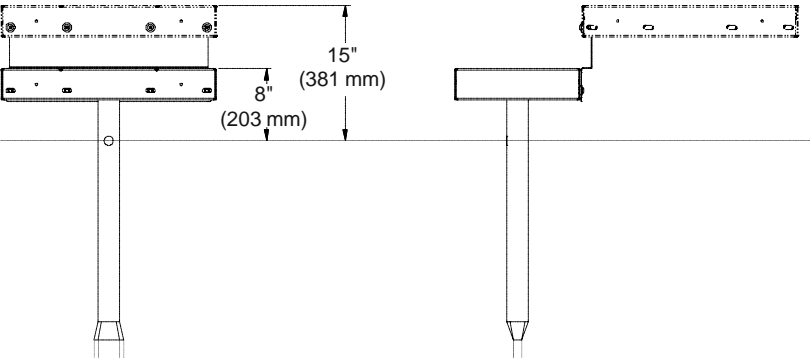
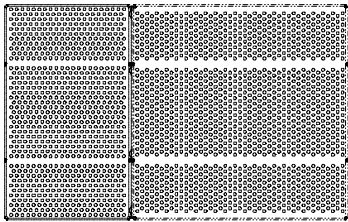
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

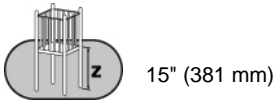


Footing Diagram

Top View

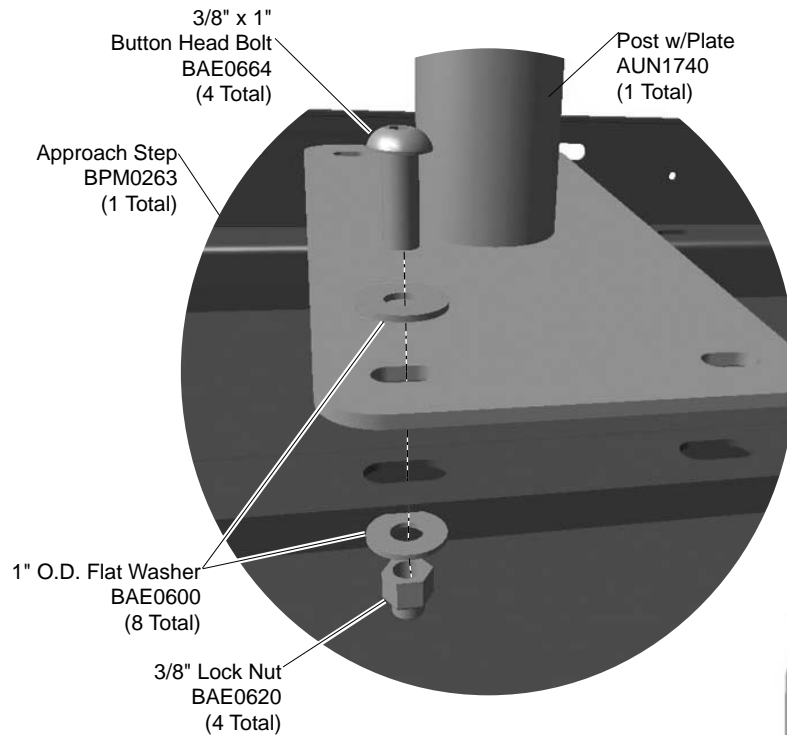


Elevation Views



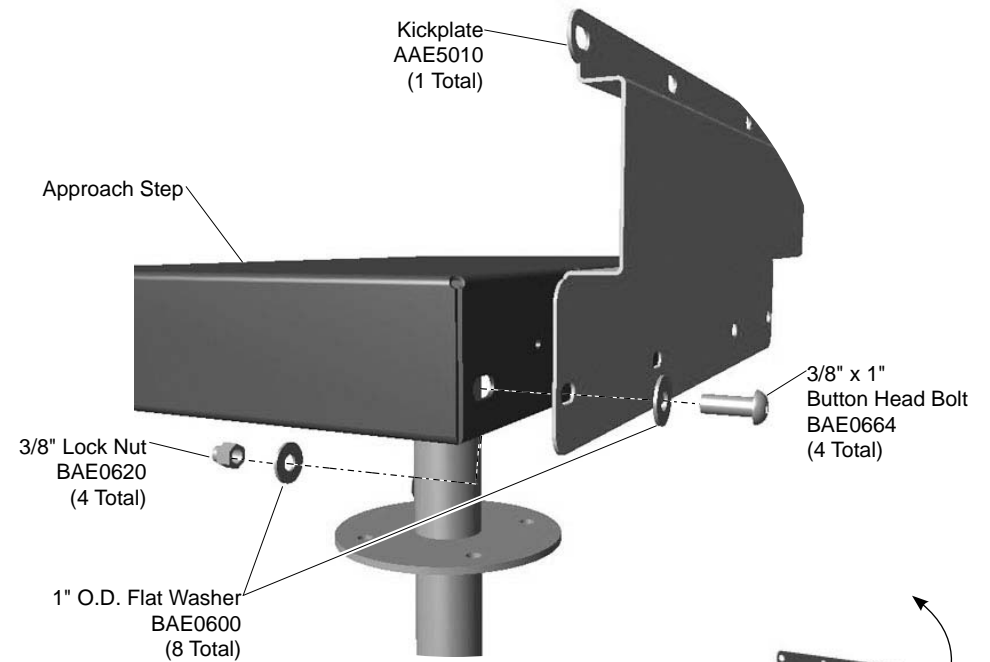
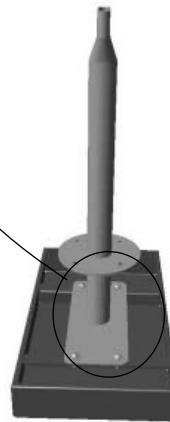
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



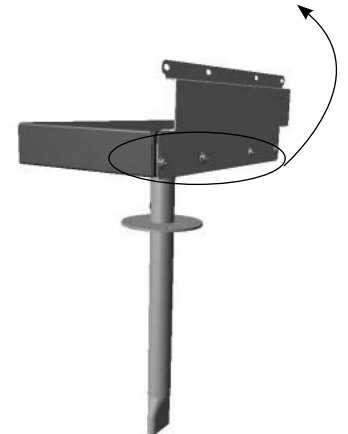
Detail A Step 4

Attach the anchor post to the approach step.

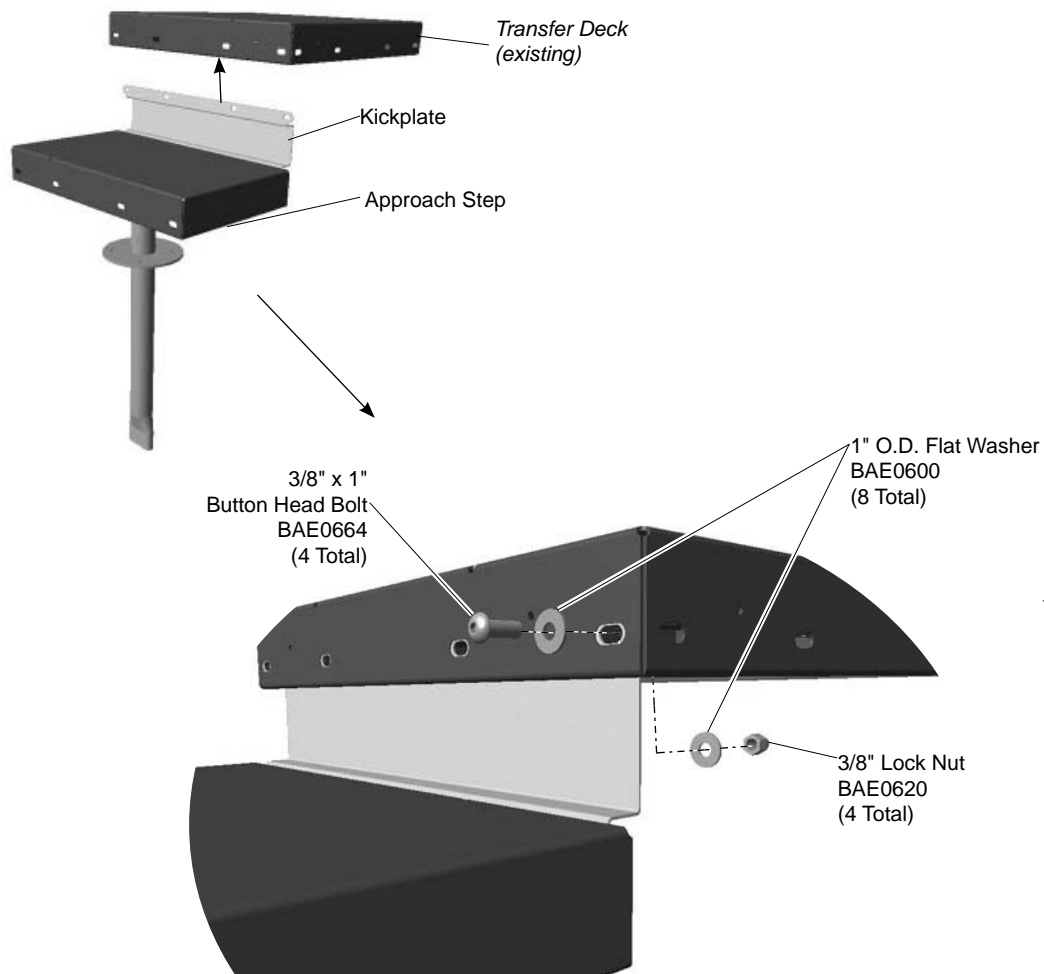


Detail B Step 5

Attach the kickplate to the approach step.



Installation Instructions



Detail C Step 6

Attach the kickplate to the transfer deck.



Step 7



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

Step 4: Attach the support leg to the approach step. See **Detail A**. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

Step 5: Attach the kickplate to the approach step. See **Detail B**. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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Assembly View (representative model)

Installation Instructions
Playmakers® Models PM8599 and PM8599S
Cozy Cocoon
In-Ground and Surface Mount

Installation Preparation

- Recommended Crew: Two (2) adults
Installation Time (in-ground):..... 1.5 man-hours
Installation Time (surface mount): 1 man-hour
Concrete Required: 0.13 cubic yard (0,10 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

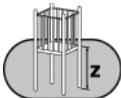
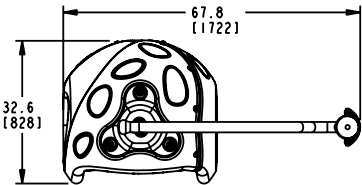
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Hammer
	Critical Fall Height



Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

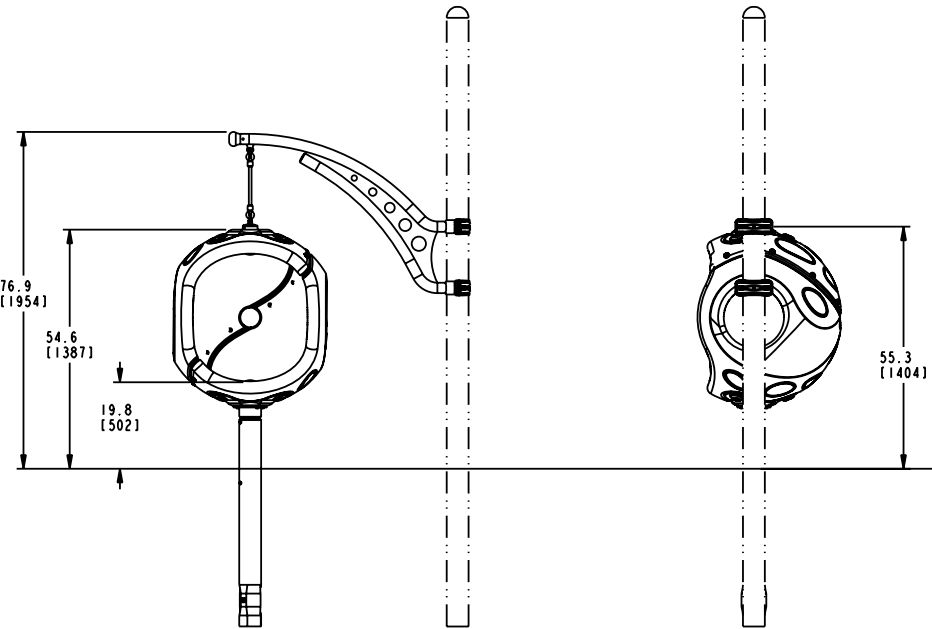
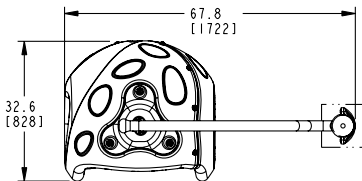
Top View



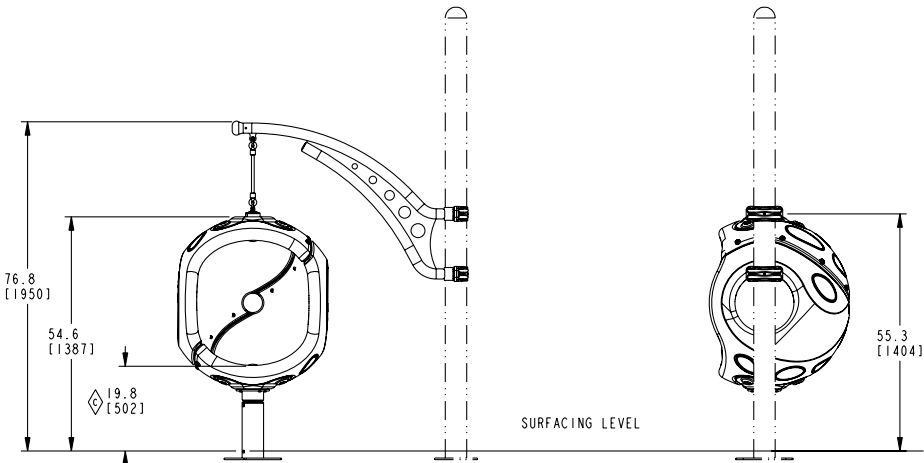
ASTM/CSA: 19.8" (502 mm)
EN: 54.6" (1387 mm)

Footing Diagram
(Both Models)

Top View



Elevation Views
PM8599

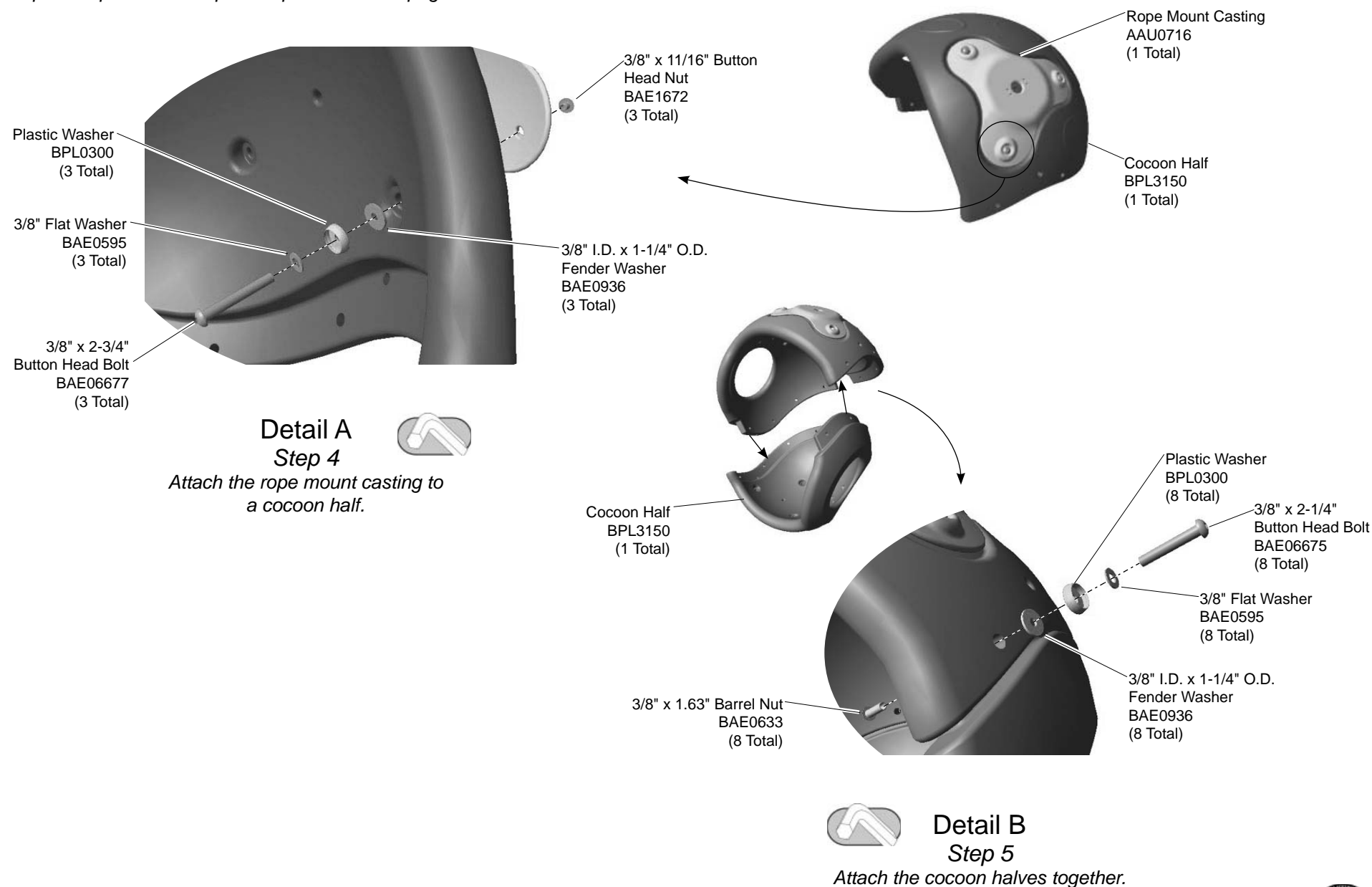


Elevation Views
PM8599S

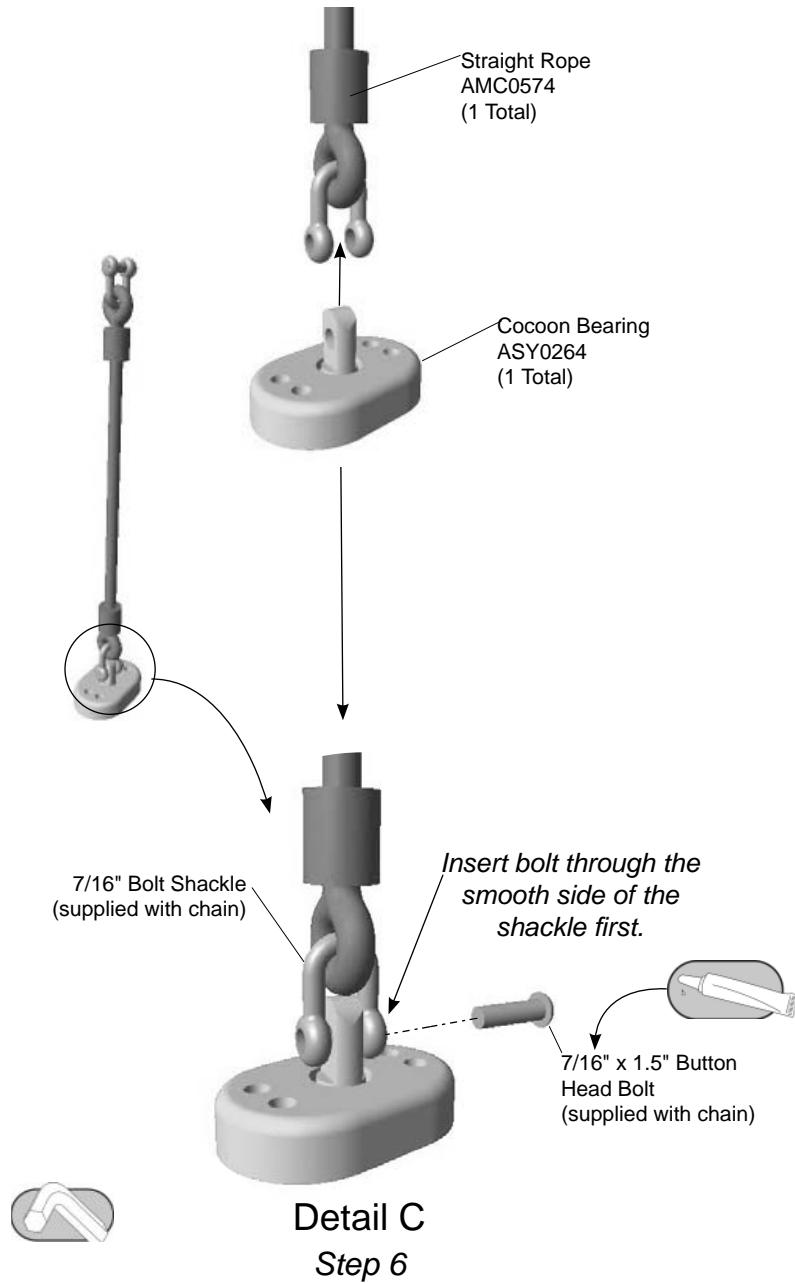


Installation Instructions

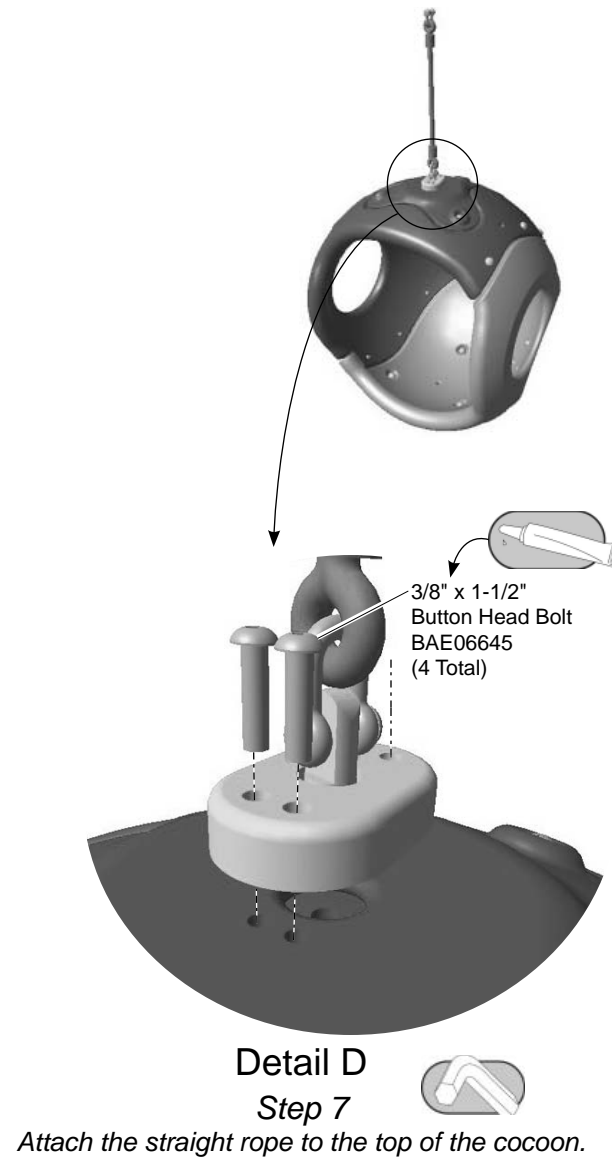
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



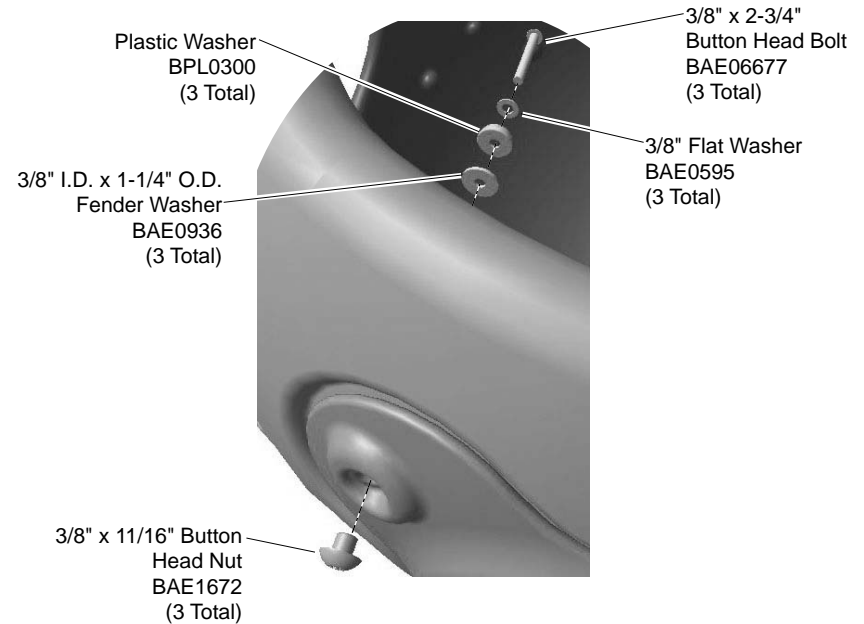
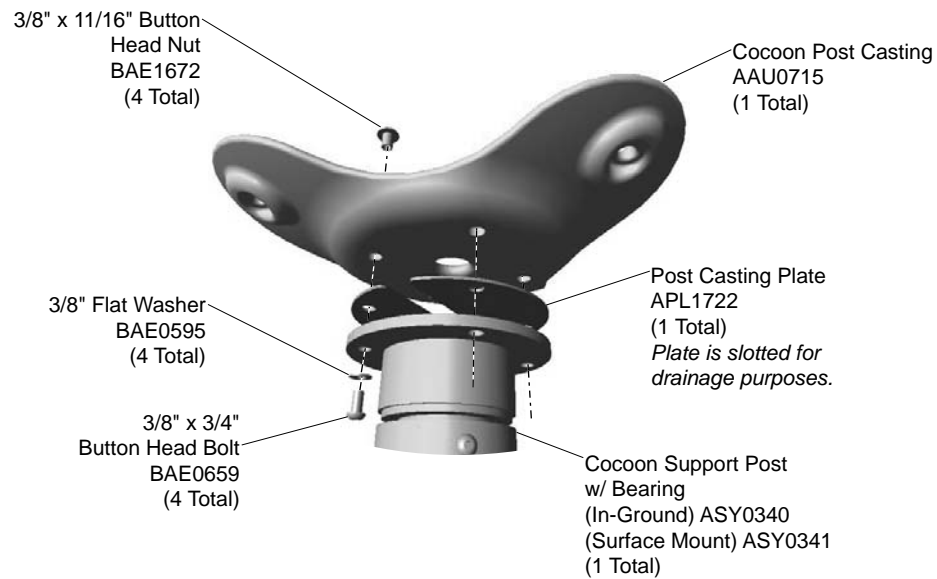
Installation Instructions



Attach a cocoon bearing to the straight rope and to the chain.



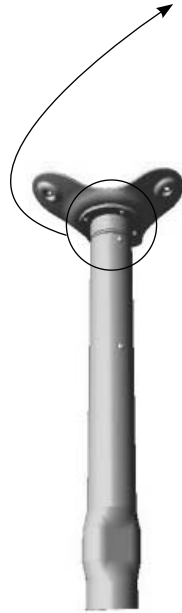
Installation Instructions



Detail E Step 8



Attach the cocoon support post to the cocoon post casting.



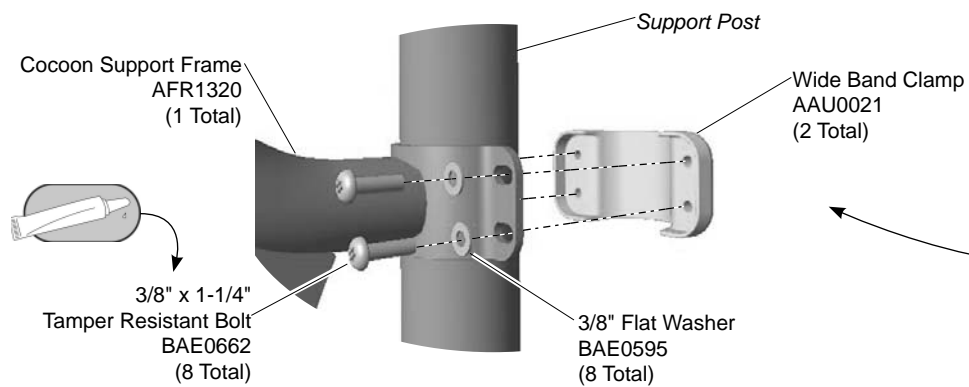
Detail F Step 9



Attach the cocoon support post assembly to the bottom of the cocoon.



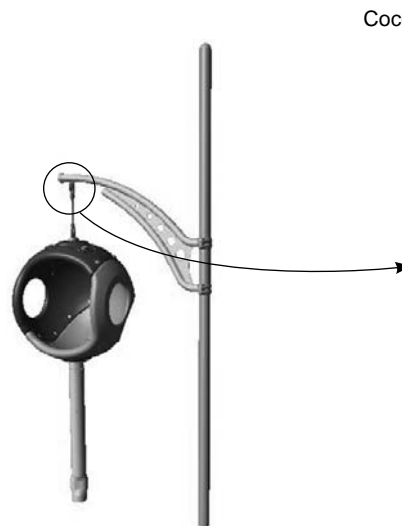
Installation Instructions



Detail G Step 10



Attach the cocoon support frame to the support post.



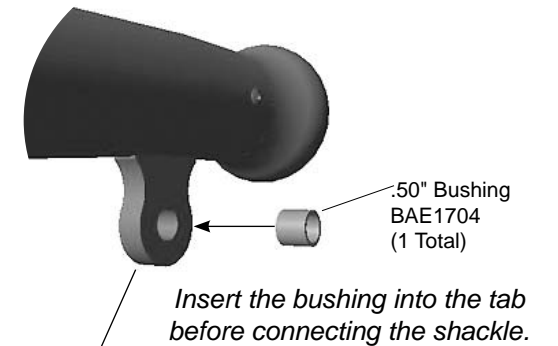
Cocoon Support Frame

Straight Rope

Detail H Step 11



Attach the long rope to the cocoon support frame.



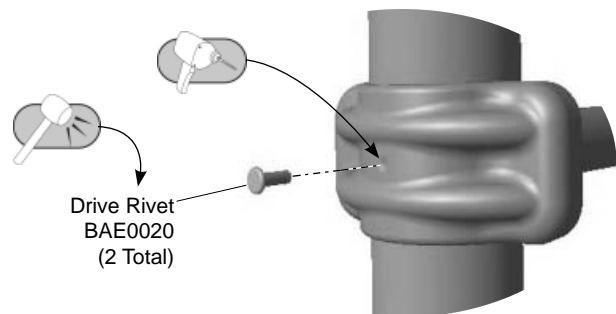
Insert the bushing into the tab before connecting the shackle.

7/16" Bolt Shackle
(supplied with chain)

7/16" x 1.5" Button Head Bolt
(supplied with chain)

Insert bolt through the smooth side of the shackle first.

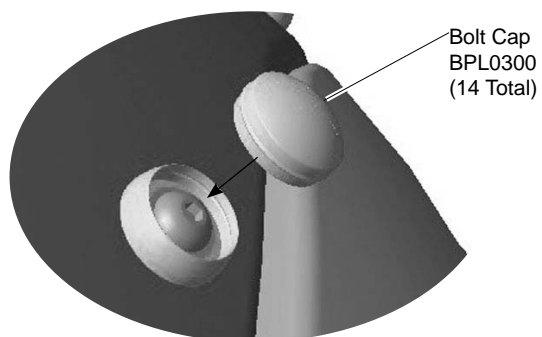
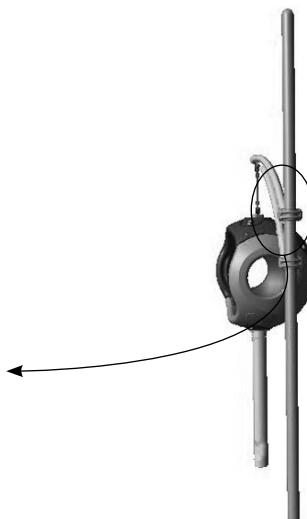
Installation Instructions



Drive Rivet
BAE0020
(2 Total)

Detail I Step 13

Secure the band clamps to the support post.



Bolt Cap
BPL0300
(14 Total)

Detail J Step 14

Insert the bolt caps into the plastic washers.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Playmaker Guidelines* at the beginning of this instruction book. Use the **Support Post Footing Detail** for the in-ground model.

Step 4: Attach the rope mount casting to a cocoon half. See **Detail A**. Insert the casting into a cocoon half and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the cocoon halves together. See **Detail B**. Place the two cocoon halves together and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 6: Attach a cocoon bearing to the straight rope and to the chain. See **Details C-1 and C-2**. Remove the bolt from the shackle on one end of the straight rope and insert a cocoon bearing up and into the shackle. Insert a shackle through the one end of the chain w/ 8 links and insert a cocoon bearing up and into the shackle. Apply a drop of thread locking adhesive to the bolt threads, insert through the smooth side of each shackle first, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 7: Attach the straight rope to the top of the cocoon. See **Detail D**. Place the bearing on the straight rope into the top of the cocoon until fully seated, apply a drop of thread locking adhesive on the bolt threads, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 8: Attach the cocoon support post w/ bearing to the cocoon post casting. See **Detail E**. Position the support post and casting plate against the bottom of the cocoon post casting and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 9: Attach the cocoon support post assembly to the bottom of the cocoon. See **Detail F**. Place support post assembly against the bottom of the cocoon and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 10: Attach the cocoon support frame to the support post. See **Detail G** and the **Elevation View**. Position the frame against the support post at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave connections loose until cocoon is attached.

Step 11: Attach the straight rope to the cocoon support frame. See **Detail H**. Insert a bushing into the tab on the end of the support frame. Using the hardware supplied with the rope, apply a drop of thread locking adhesive to the bolt threads, and attach the rope to the support frame as shown. Fully tighten the connections according to tightening torque specifications.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 13: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each band clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select plastic bolt caps and press into the plastic washers. See **Detail J**.

Hint: The bolt caps install more easily when they are warm.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level or at a visible location.

PM8599 - COZY COCOON

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1
AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1
ASY0264	COCOON BEARING	1
ASY0340	ASSEMBLY - COCOON BEARING	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	8
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	1
BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8599S - COZY COCOON SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1
AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1
ASY0264	COCOON BEARING	1
ASY0341	ASSEMBLY - COCOON BEARING (SM) 5-12	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	8
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	1
BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

Installation Instructions

Playmakers®

Models PM2658, PM2696, PM3126-PM3128
24"-72" (610-1829 mm) Glide Slides

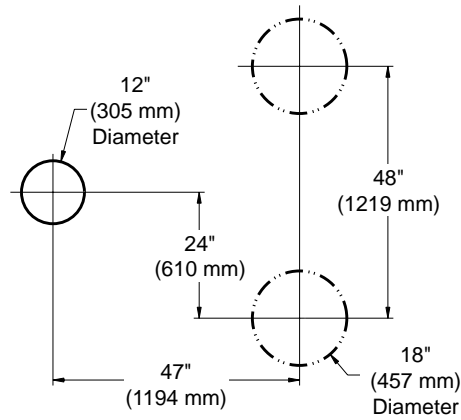
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24"-60": ASTM/CSA: 2-12, EN: 2-14
 72": ASTM/CSA: 5-12, EN: 6-14

ICON KEY

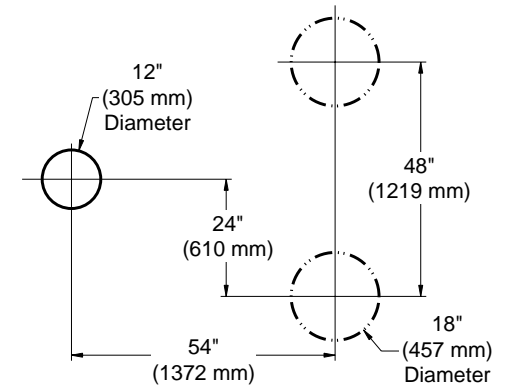
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

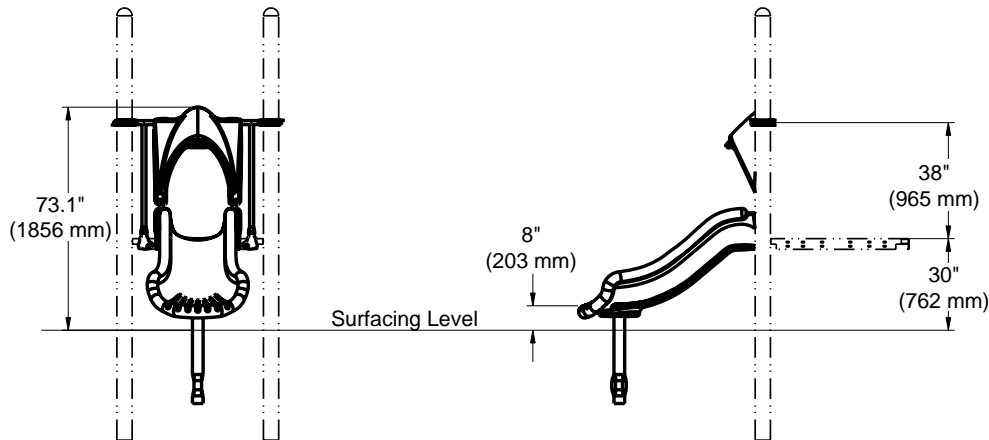
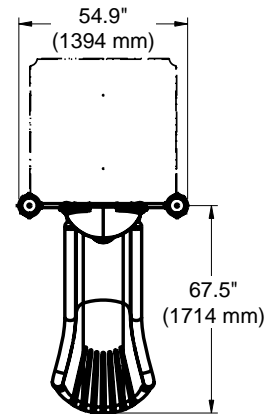
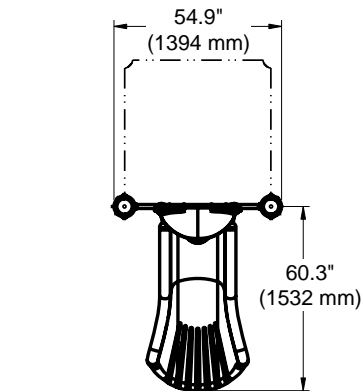


Footing Diagram

If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.

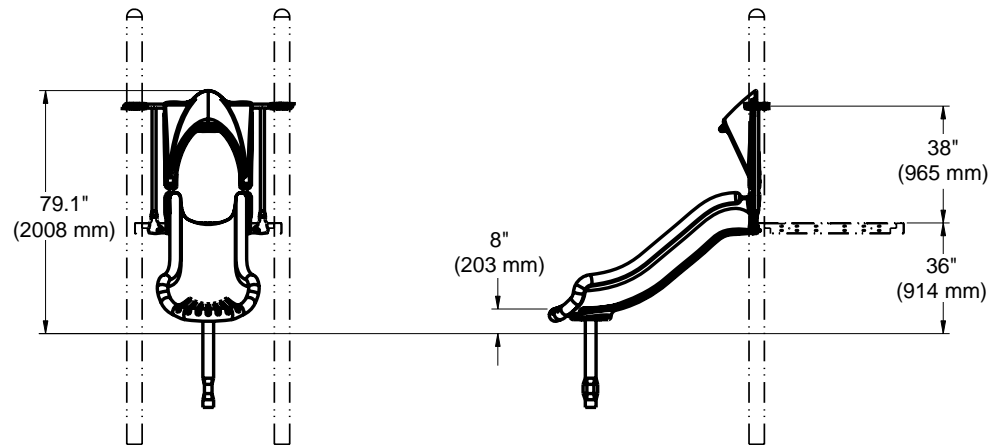


Footing Diagram



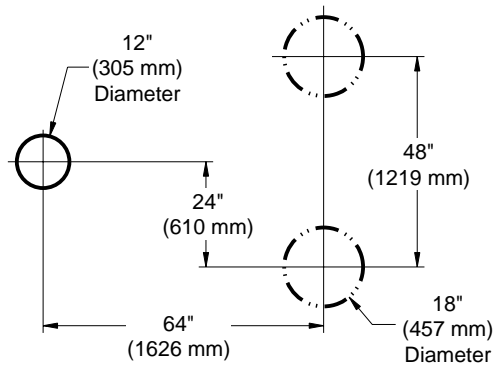
Elevation View PM3128 - 30" Glide Slide

(24" slide: exit will be 2" (50mm) above the surfacing level)

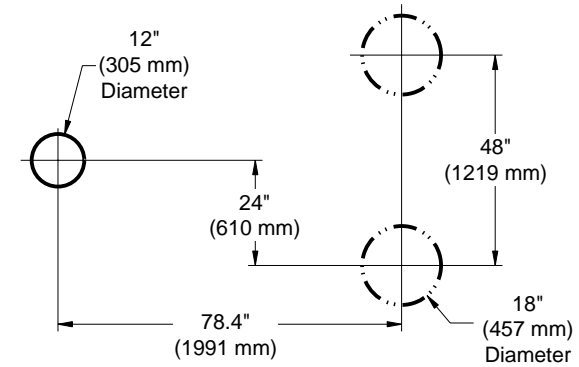


Elevation View PM3127 - 36" Glide Slide

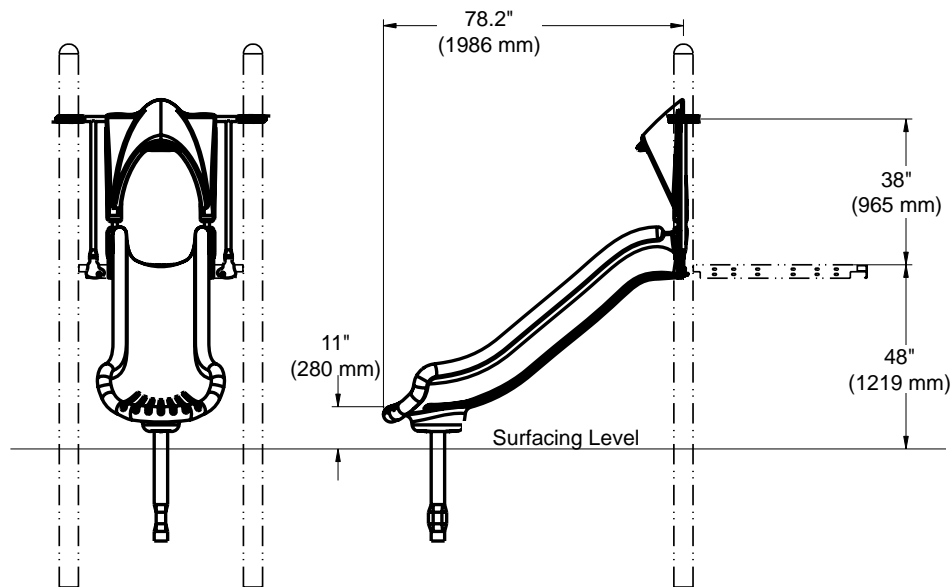
Installation Instructions



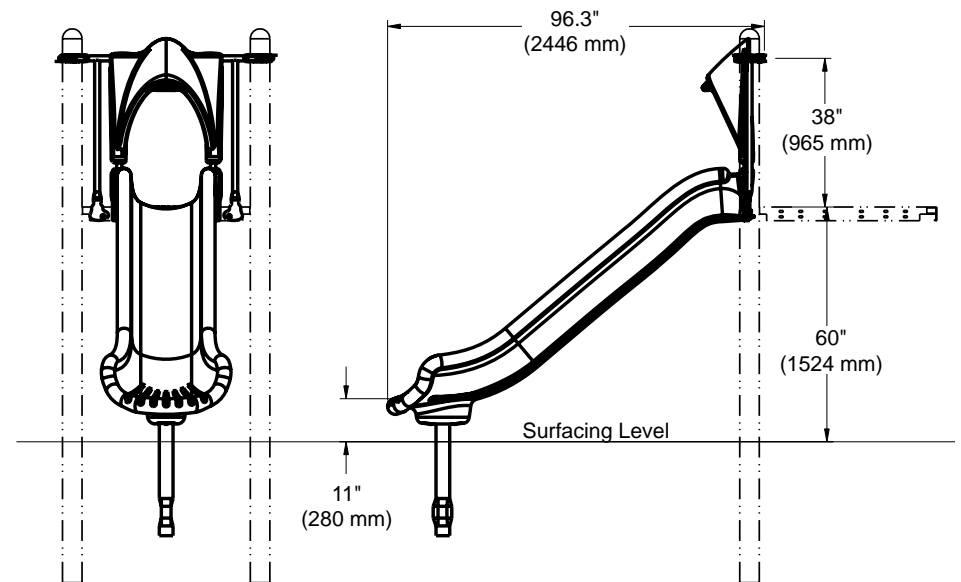
Footing Diagram



Footing Diagram

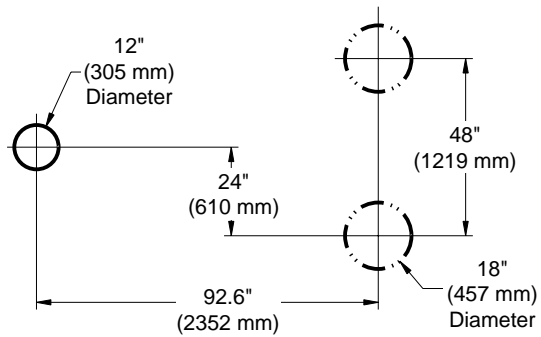


Elevation View PM3126 - 48" Glide Slide

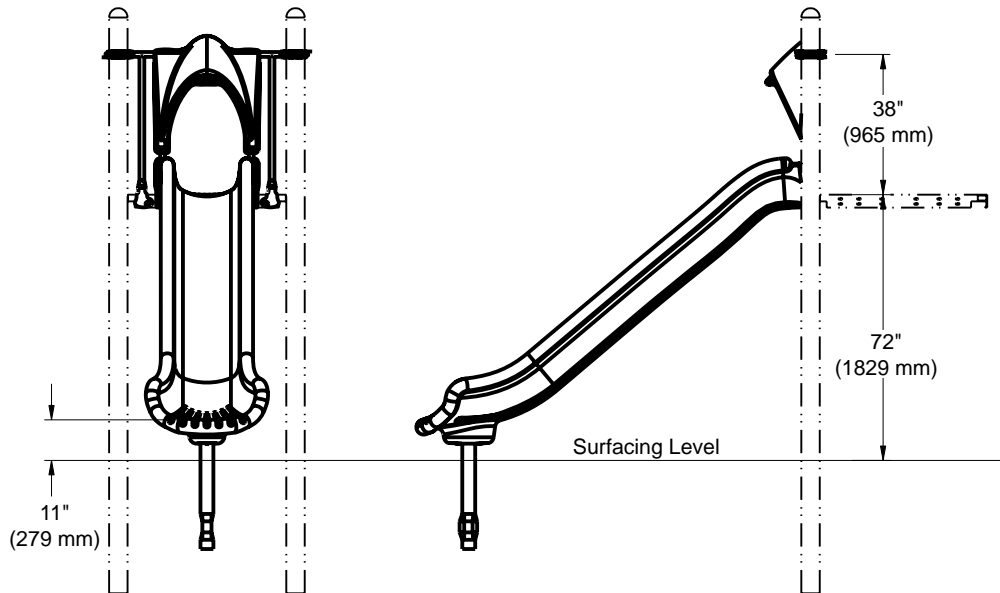


Elevation View PM2658 - 60" Glide Slide

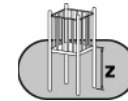
Installation Instructions



Footing Diagram



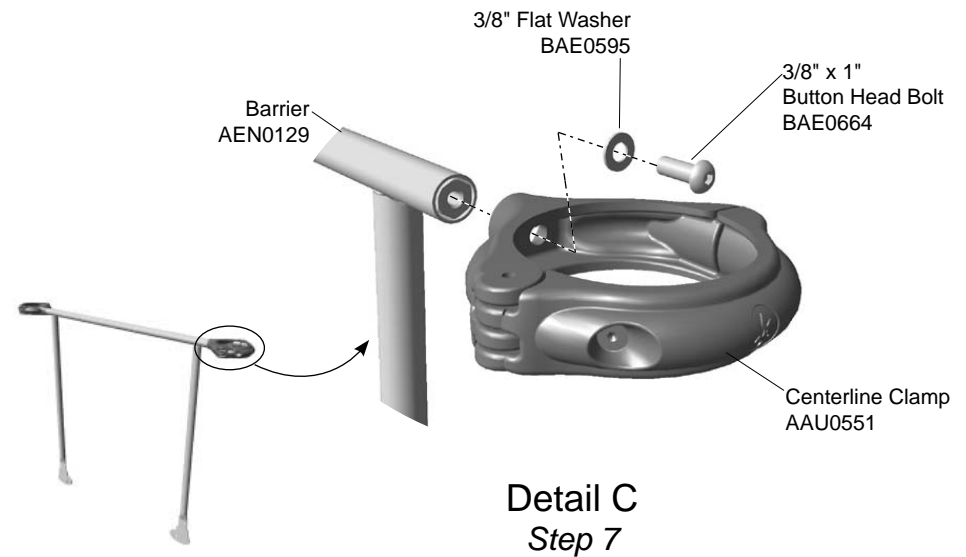
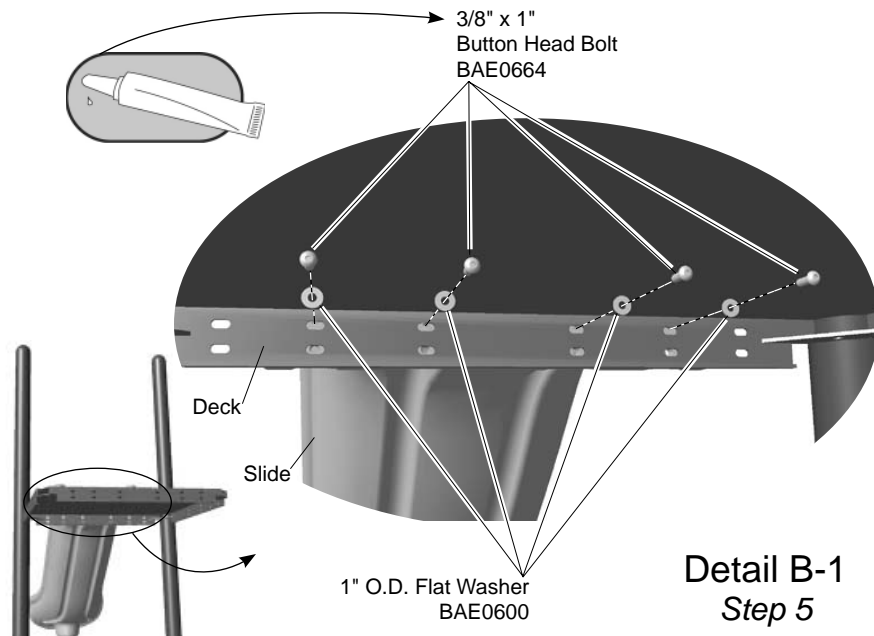
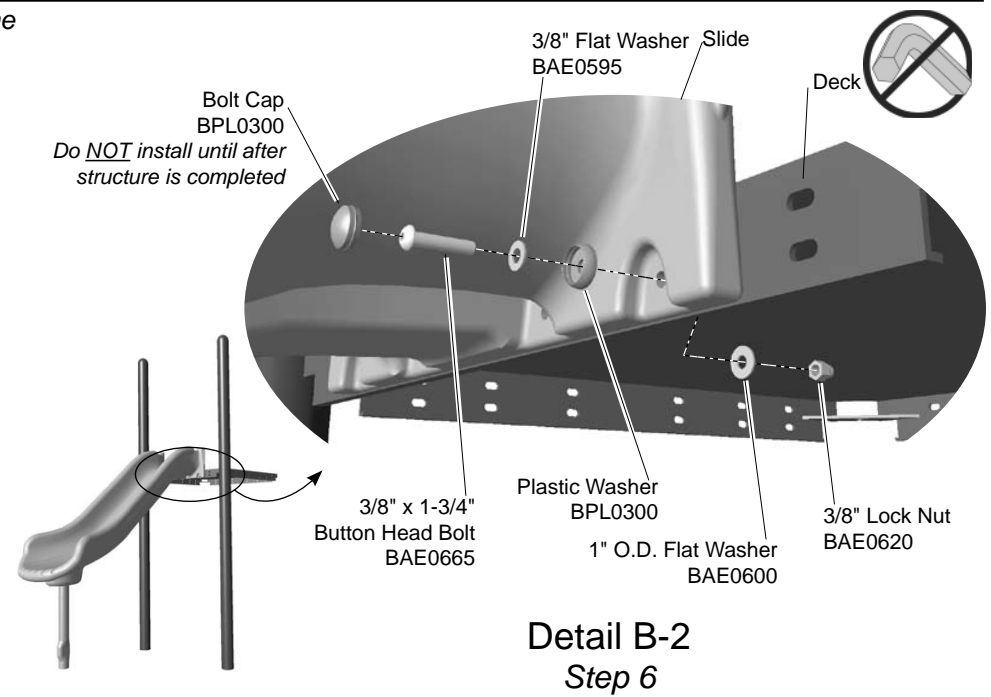
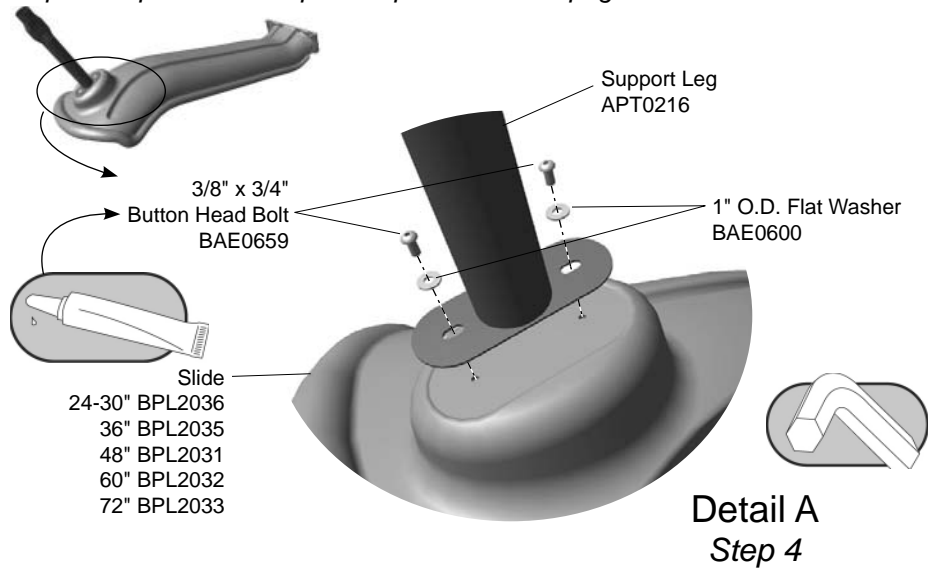
Elevation View PM2696 - 72" Glide Slide



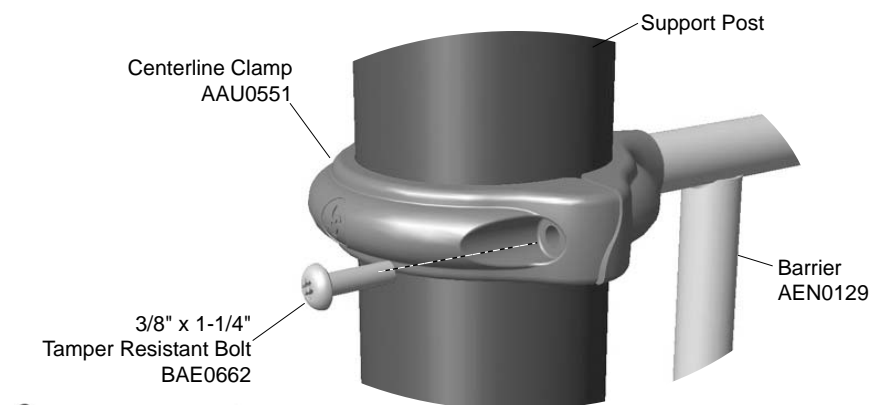
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

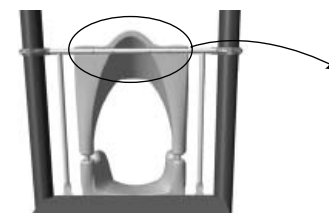
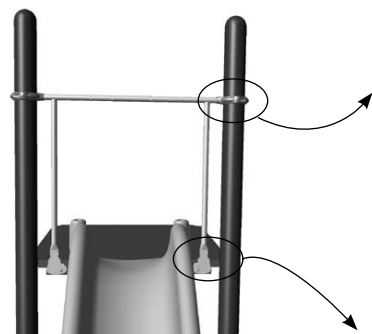
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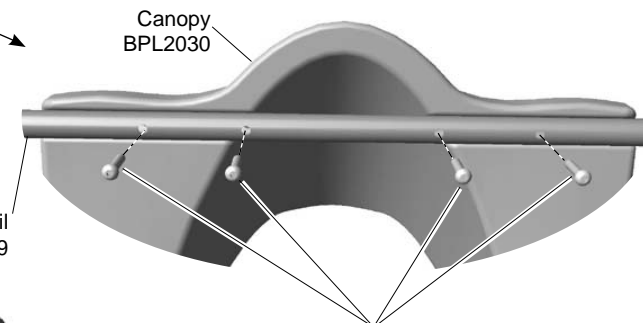
Installation Instructions



Detail D-1
Step 8



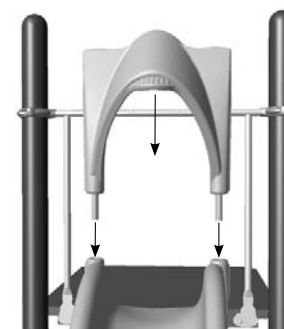
Barrier Top Rail
AEN1029



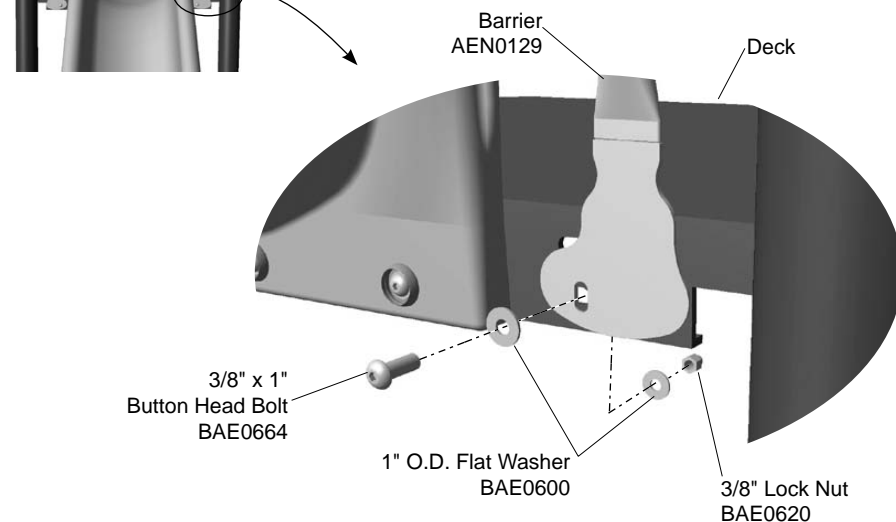
Canopy
BPL2030



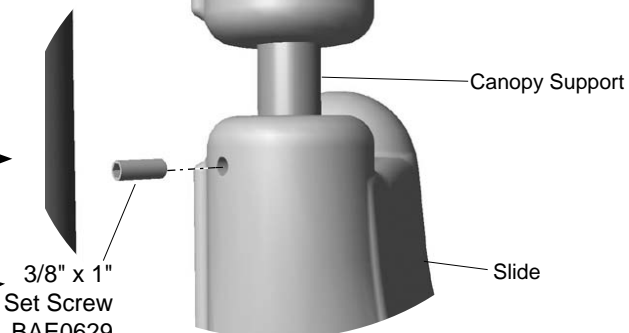
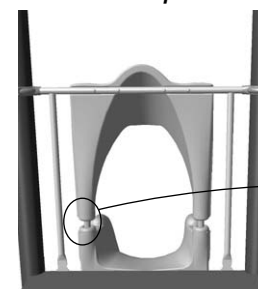
Detail E-2
Step 10



Detail E-1
Step 10



Detail D-2
Step 9



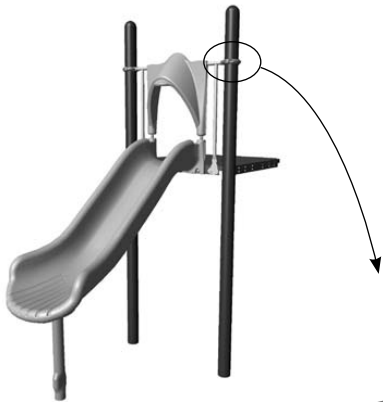
3/8" x 1" Set Screw
BAE0629

Detail F
Step 11

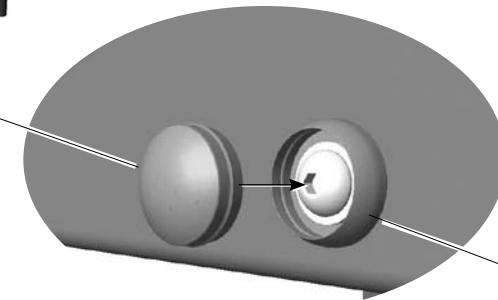
Installation Instructions



Step 12

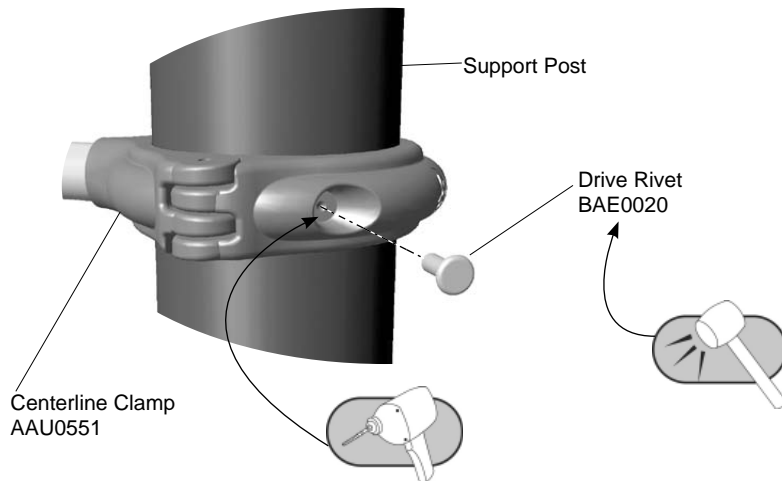


Bolt Cap
BPL0300



Plastic Washer
BPL0300

Detail H
Step 14
(refer to Detail B-2 also)



Centerline Clamp
AAU0551

Support Post

Drive Rivet
BAE0020

Detail G
Step 13

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

___**Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___**Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

___**Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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800-233-8404 or
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Assembly View (representative model)

Installation Instructions Playmakers® Model PM3129 90° Glide Slide

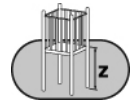
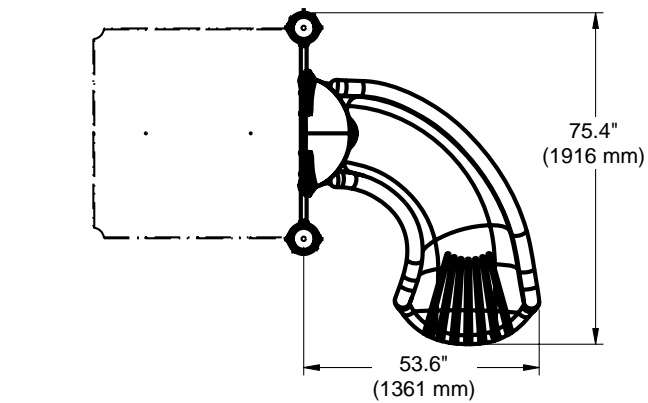
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: 108.4 lbs (49,3 kg)
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

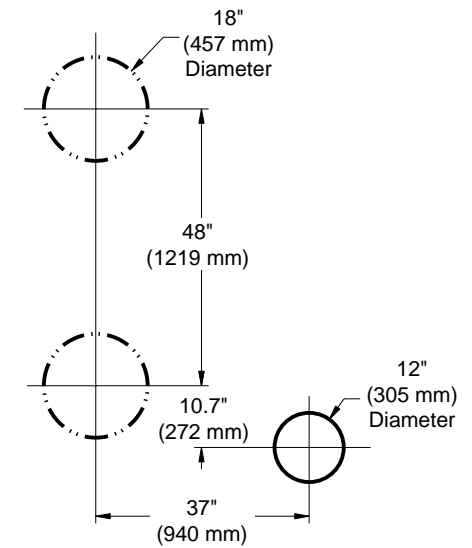
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

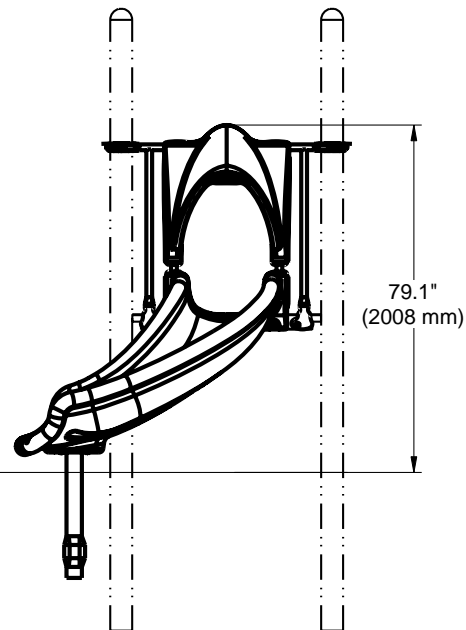
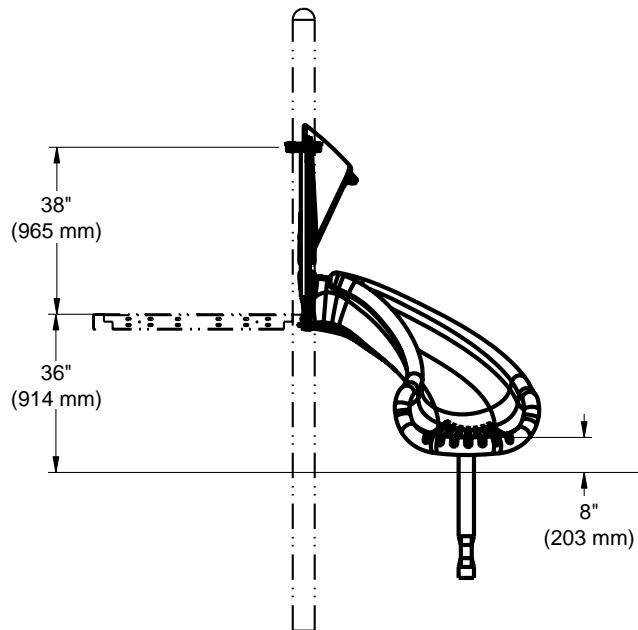
Installation Instructions



36" (914 mm)



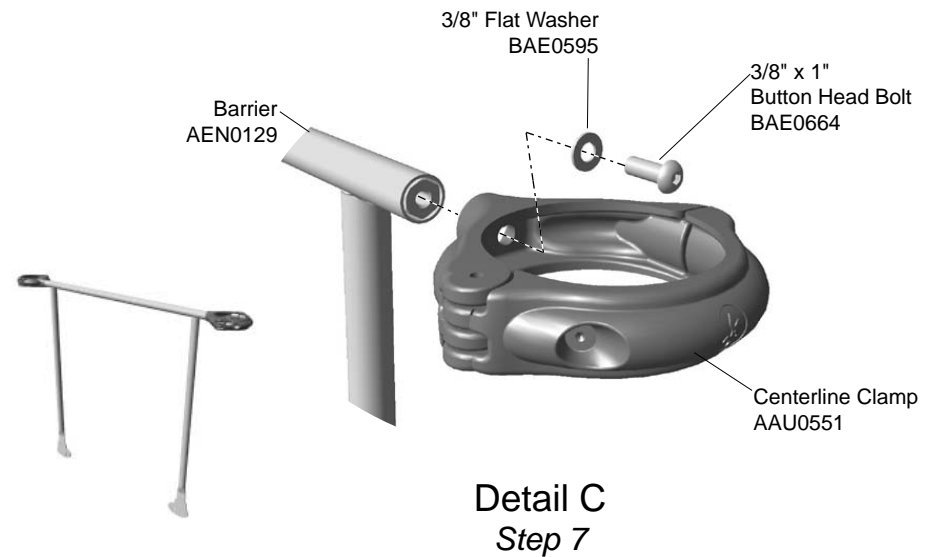
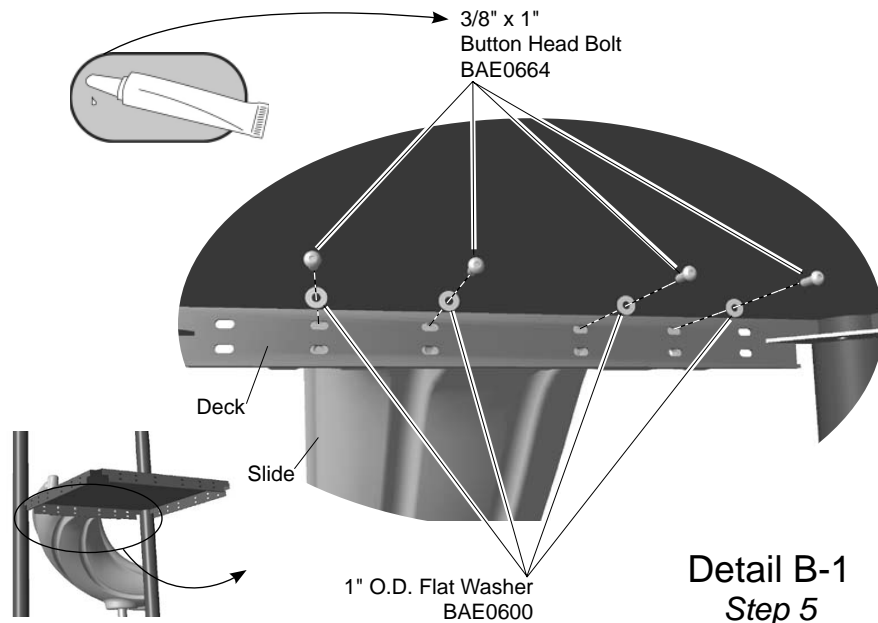
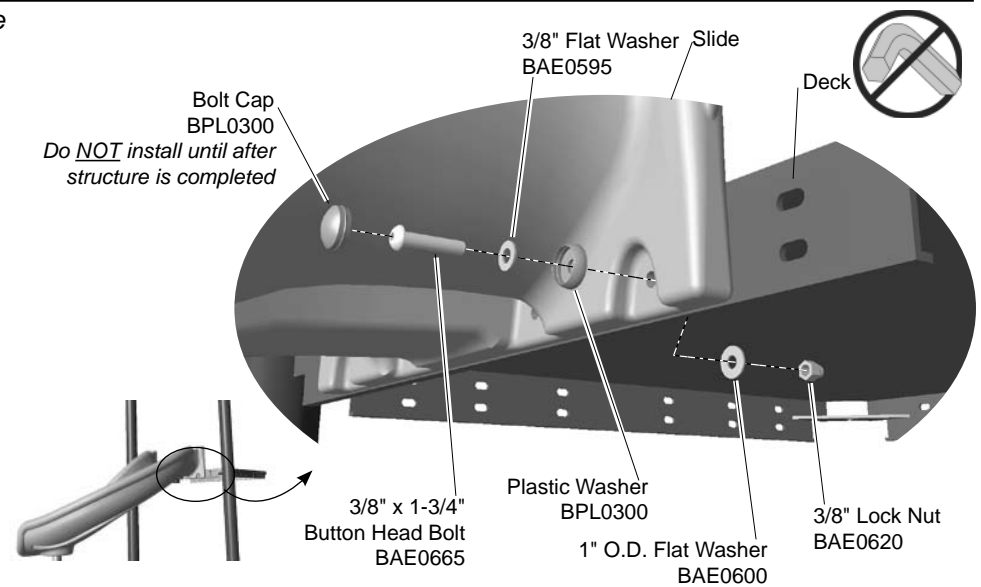
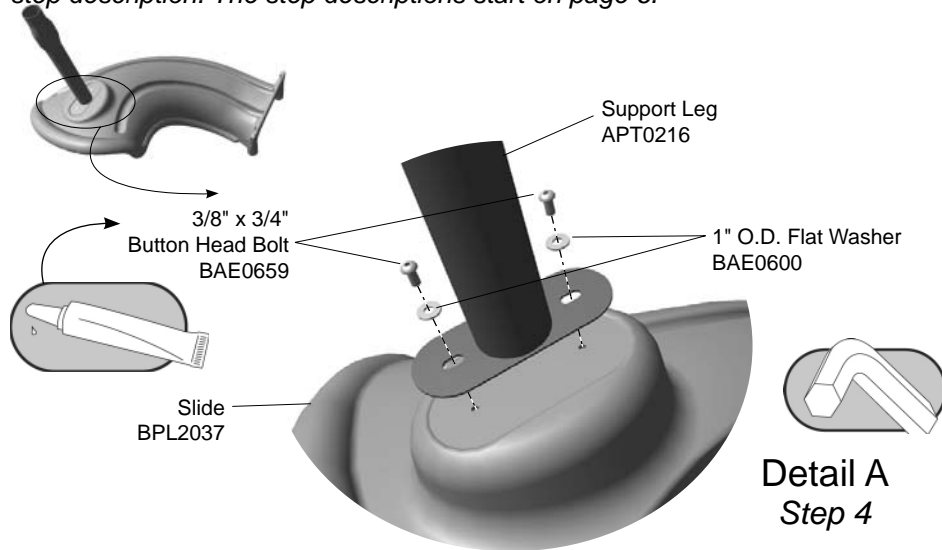
Footing Diagram



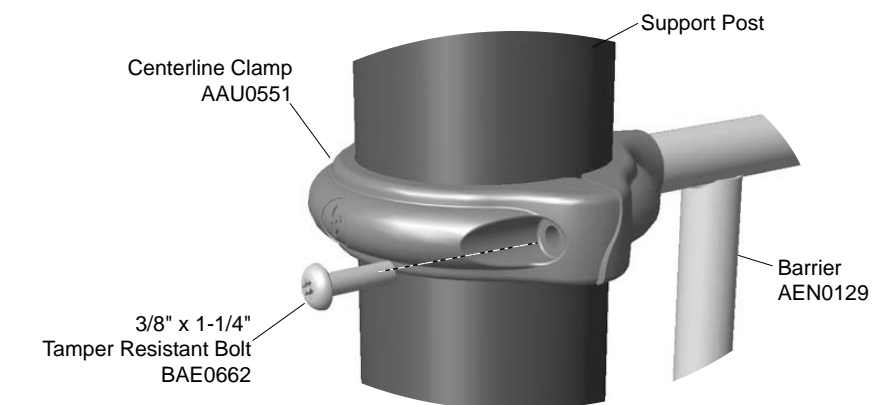
Elevation View

Installation Instructions

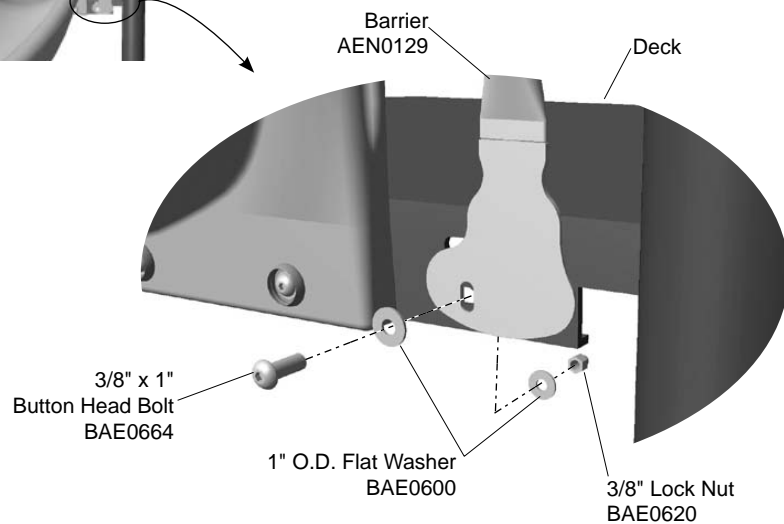
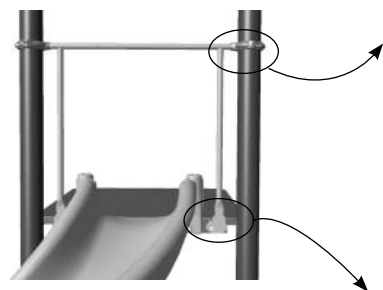
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



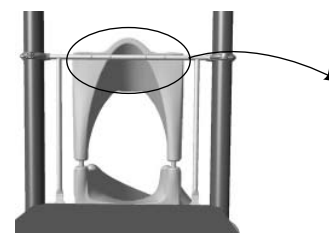
Installation Instructions



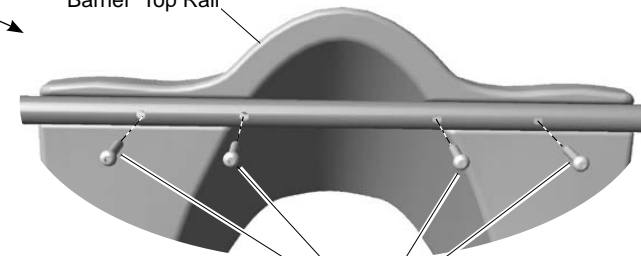
Detail D-1
Step 8



Detail D-2
Step 9

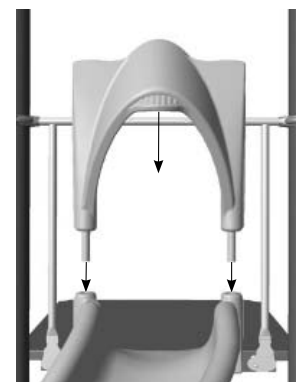


Barrier Top Rail

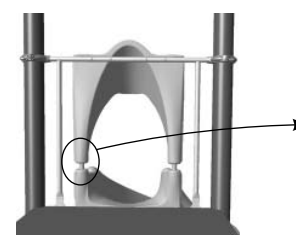


3/8" x 1-3/4" Button Head Bolt BAE0665

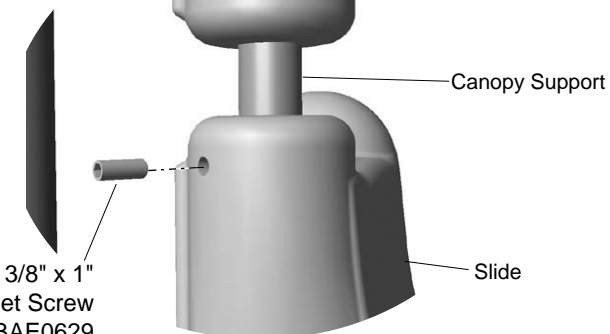
Detail E-2
Step 10



Detail E-1
Step 10

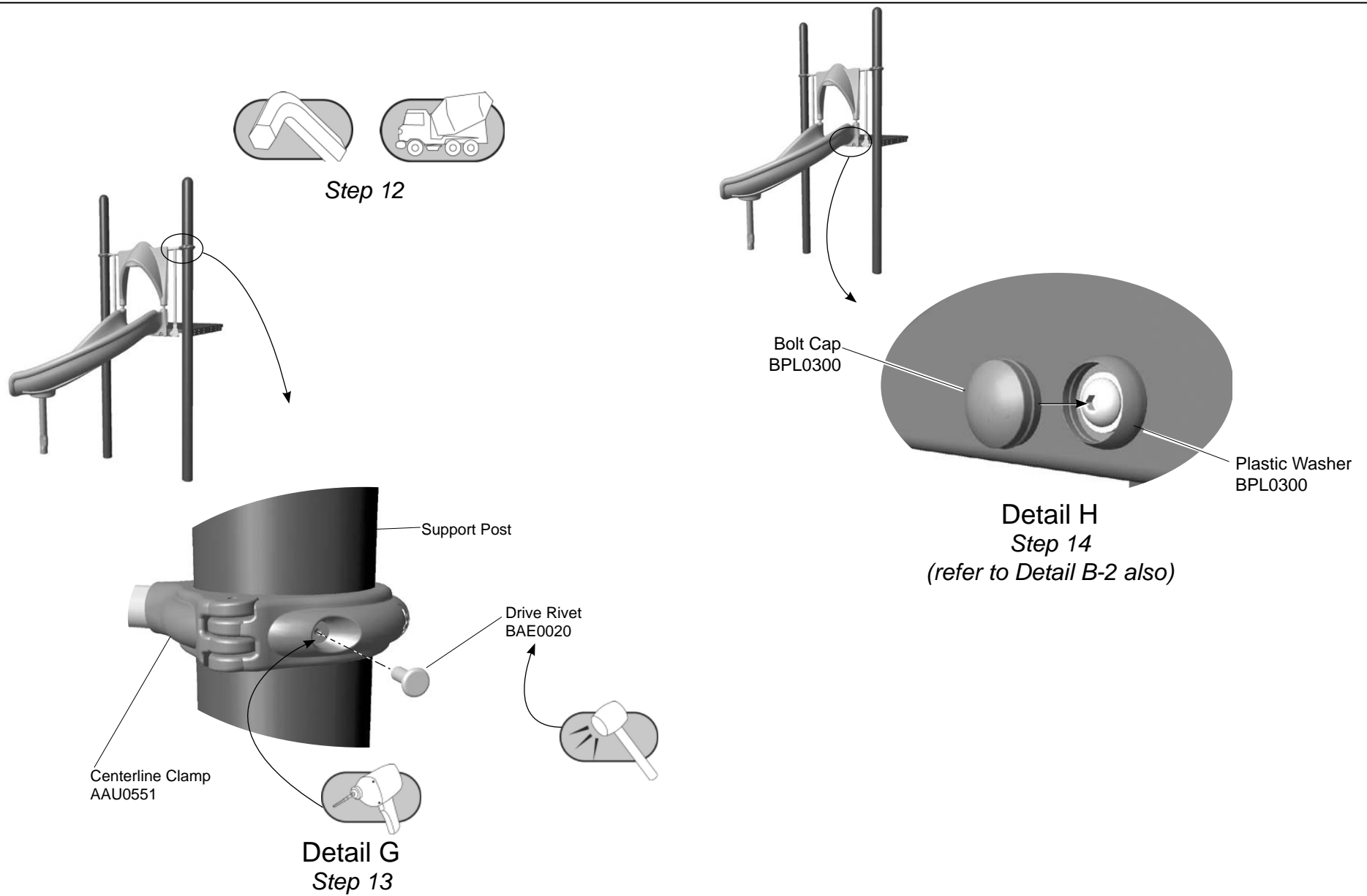


3/8" x 1" Set Screw BAE0629



Detail F
Step 11

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* in the beginning of this instruction booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**. The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

__**Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

__**Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

__**Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

PM3129 - 90° GLIDE SLIDE

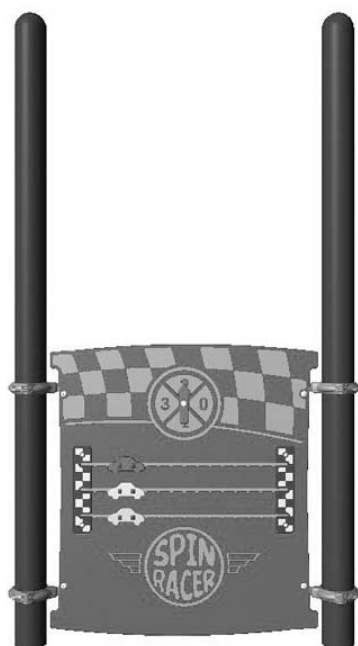
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2037	SLIDE - 36" 90° GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View

Installation Instructions Playmakers® Model PM4538 Spin Racer Panel Ground Level

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 63.3 lbs. (28,8 kg)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

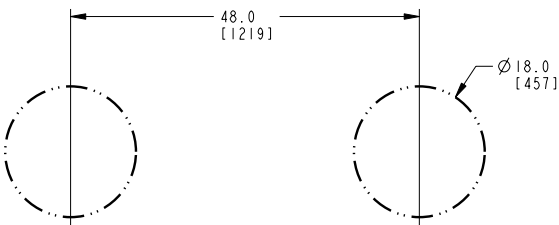
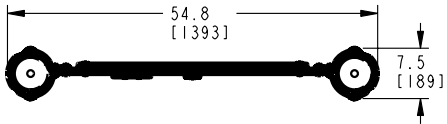
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

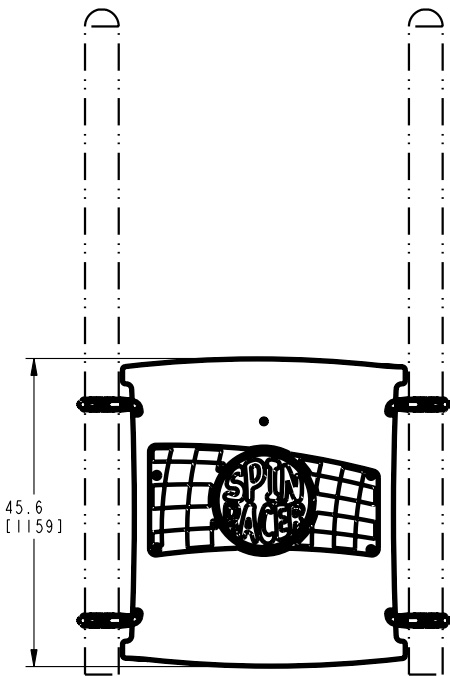
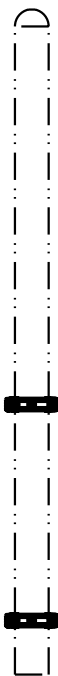
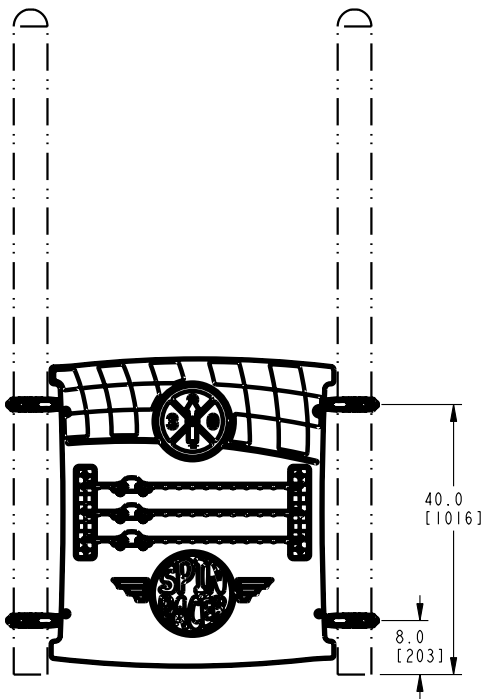
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



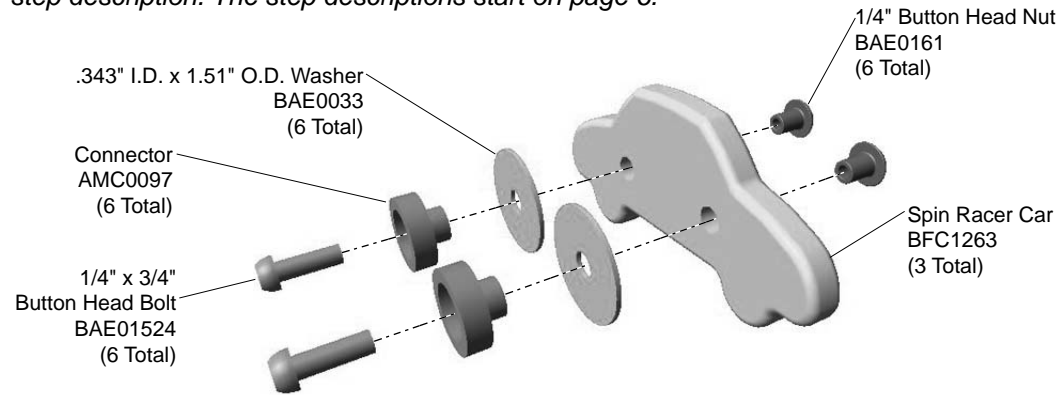
Footing Diagram



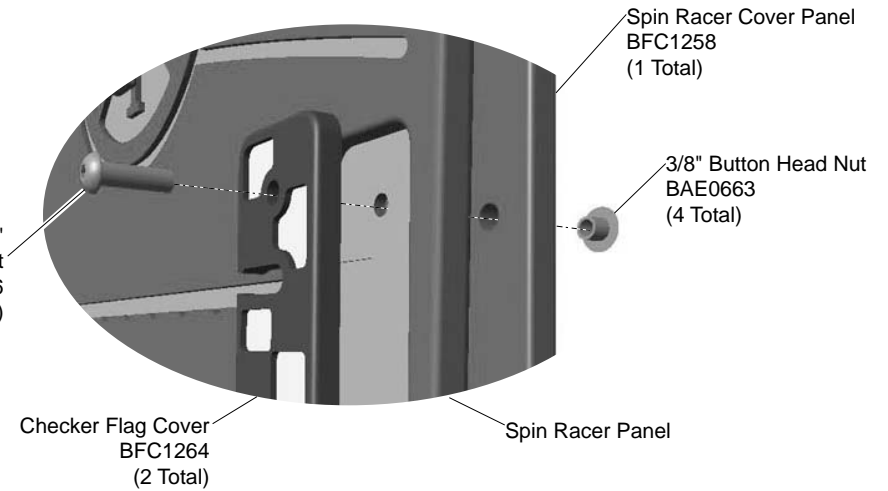
Elevation Views

Installation Instructions

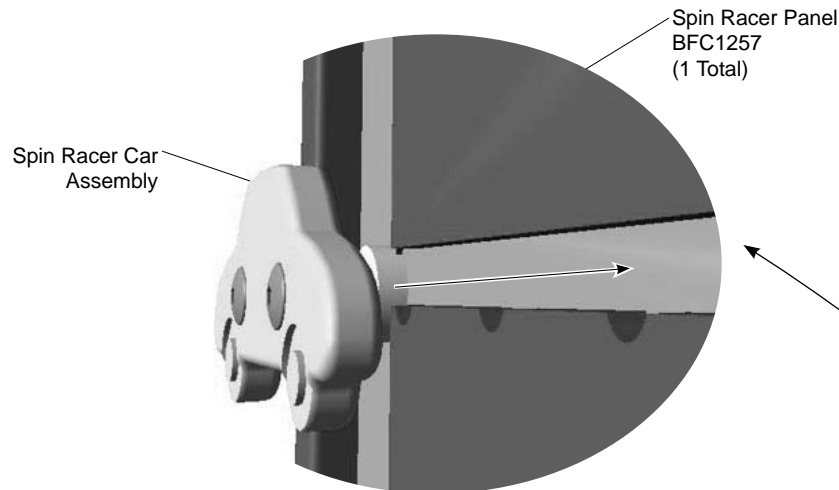
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Detail A
Step 3
Assemble the racer cars.



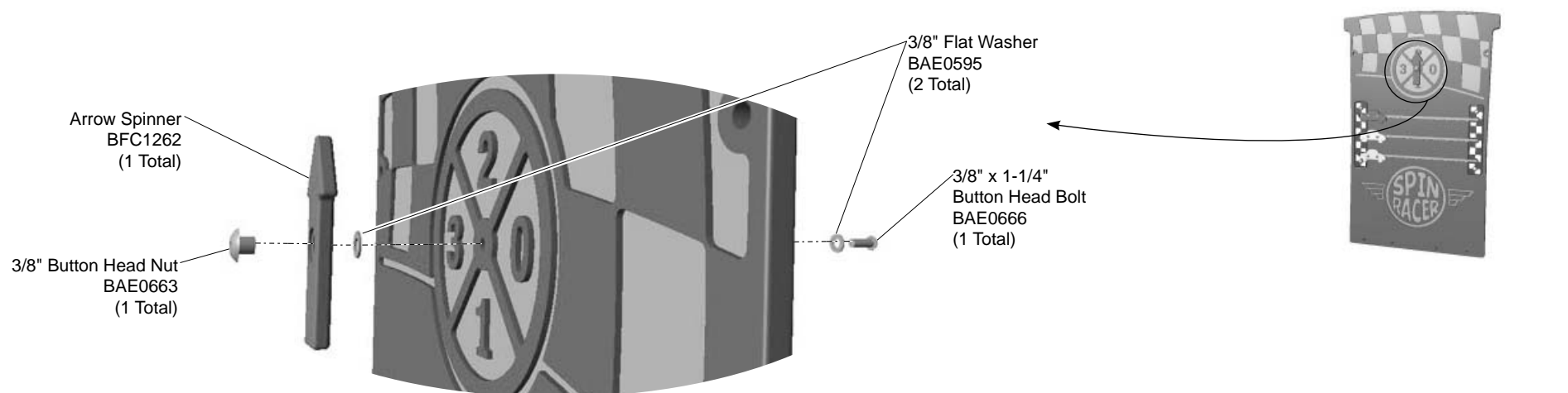
Detail C
Step 5
Attach the flag and racer cover panels to the racer panel.



Detail B
Step 4
Insert the racer cars into the panel.

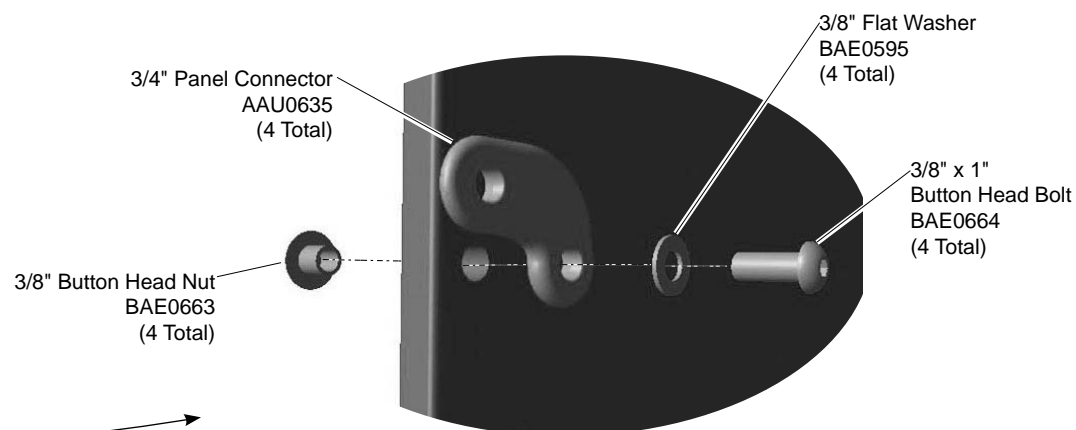
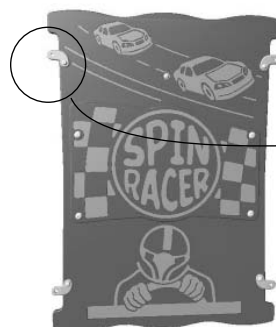


Installation Instructions



Detail D Step 6

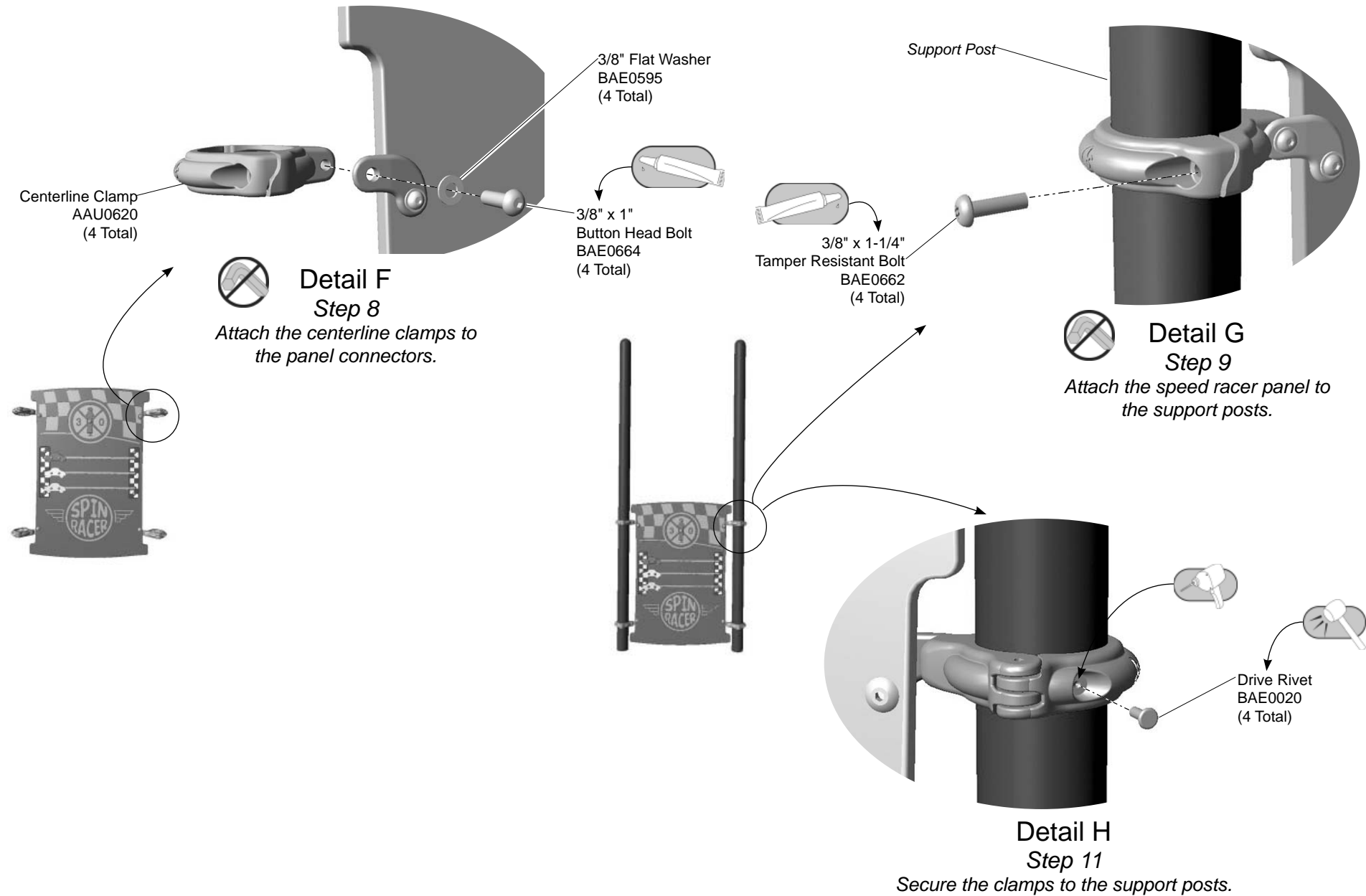
Attach the arrow spinner to the racer panel.



Detail E Step 7

Attach the panel connectors to the backside of the racer panel.

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Assemble the racer cars. See **Detail A**. Assemble the racer cars as shown. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

Step 4: Insert the racer cars into the panel. See **Detail B**. Insert the racer cars into the tracks in the panel as shown. There is (1) one car per track.

Step 5: Attach the flag and racer cover panels to the racer panel. See **Detail C**. Insert the checker flag covers into the appropriate slots on the front of the racer panel. Position the racer cover panel against the back of the racer panel, align the holes and attach as shown. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

Step 6: Attach the arrow spinner to the racer panel. See **Detail D**. Position the arrow spinner over the numeric cutout section on the front of the racer panel and attach as shown. Fully tighten the connection being careful not to over tighten the bolt.

Step 7: Attach the panel connectors to the backside of the racer panel. See **Detail E**. Position each panel connector so that the hole in the short leg aligns with the hole in the panel. Panel connectors must all attach to the side of the panel opposite the cars. Leave the connections loose for alignment adjustment. Attach as shown.

Step 8: Attach the clamps to the panel connectors. See **Detail F**. Place the flat side of each clamp against the activity side of a connector. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 9: Attach the racer panel to the support posts. See **Detail G**. Position the panel between the support posts at the height shown in the **Elevation View** and close the clamps around the support posts. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel. Remove the connector from both the panel and clamp before flipping and then reattach as shown in **Step 7** and **Step 8**. If possible, both the clamps should be mounted at the same height.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 11: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4538 - SPIN RACER PANEL GROUND LEVEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
AMC0097	CONNECTOR - 1 DIA x .57 w/HOLE	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0033	WASHER - .343" I.D. x 1.500" O.D.	6
BAE01524	BOLT - 1/4-20 x 3/4" BUTTON HEAD - SS	6
BAE0161	NUT - 1/4-20 x 7/16" BUTTON HEAD	6
BAE0595	WASHER - 3/8" SAE FLAT	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	5
BFC1257	SHEET - 42.00" x 45.63" SPIN RACER PANEL	1
BFC1258	SHEET - 16.27" x 34.00" SPIN RACER COVER	1
BFC1262	SHEET - ARROW SPINNER	1
BFC1263	SHEET - SPIN RACER CAR	3
BFC1264	SHEET - CHECKER FLAG COVER	2

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Assembly View (representative model)

Model	Description	Weight
ZZUN4279	Pipe Wall Mount (CH/EX)	12.2 lbs. (5,5 kg)
ZZUN4280	Pipe Wall Mount for (PM)	9.5 lbs. (4,3 kg)
ZZUN4438	Pipe Wall Mount w/Lens (CH/EX)	13.2 lbs. (6 kg)
ZZUN4439	Pipe Wall Mount w/Lens (PM)	13.3 lbs. (6 kg)

Installation Instructions




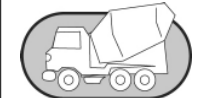
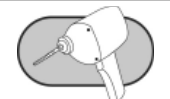

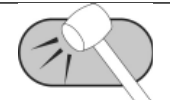
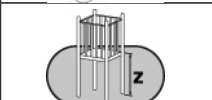
Universal Models UN4279, UN4280,
UN4438, & UN4439

Telescope Pipe Wall Mount (CH/EX) or (PM) &
Telescope Pipe Wall Mount w/ Lens (CH/EX) or (PM)

Installation Preparation

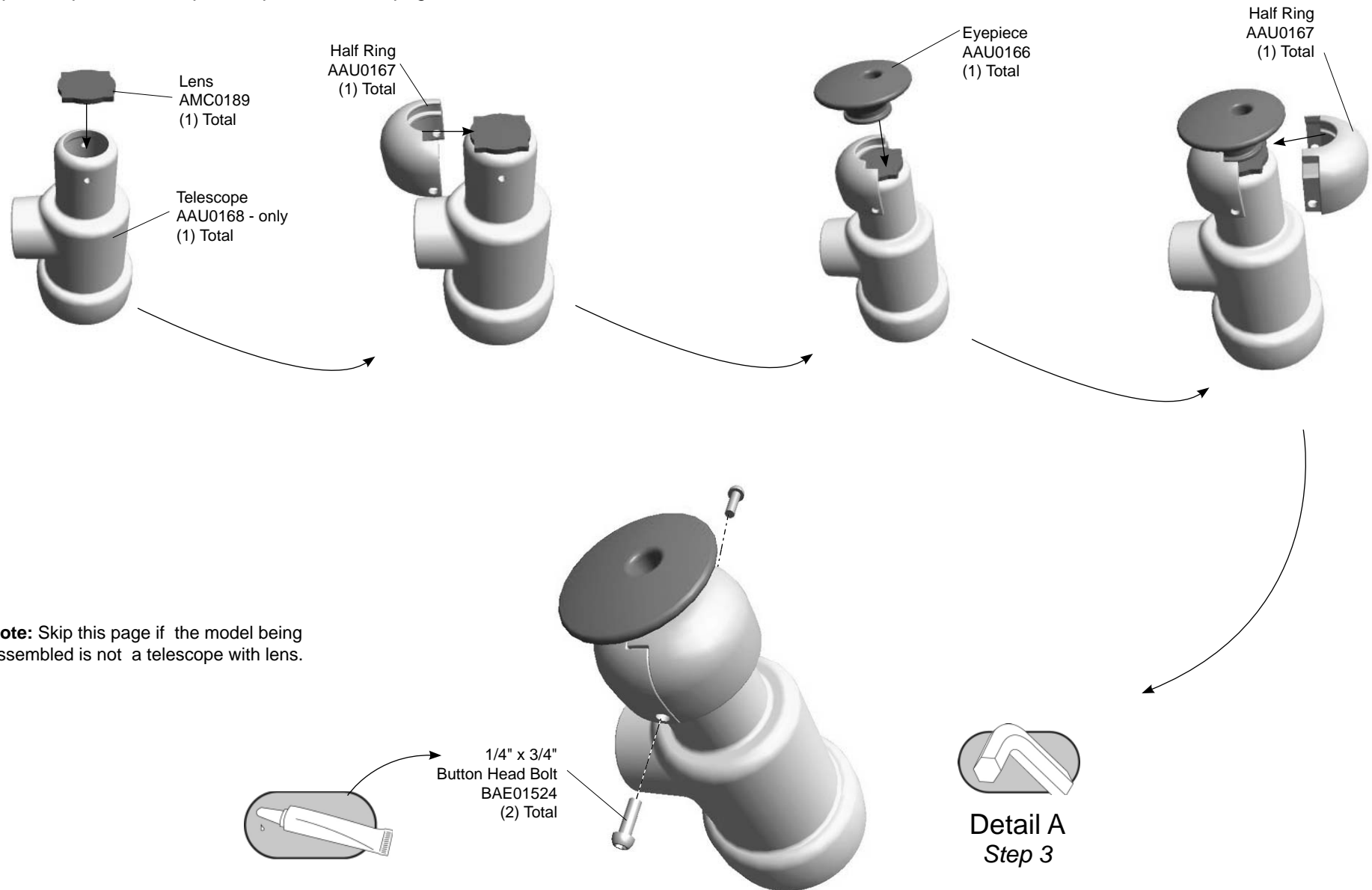
Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Weight: (refer to table)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

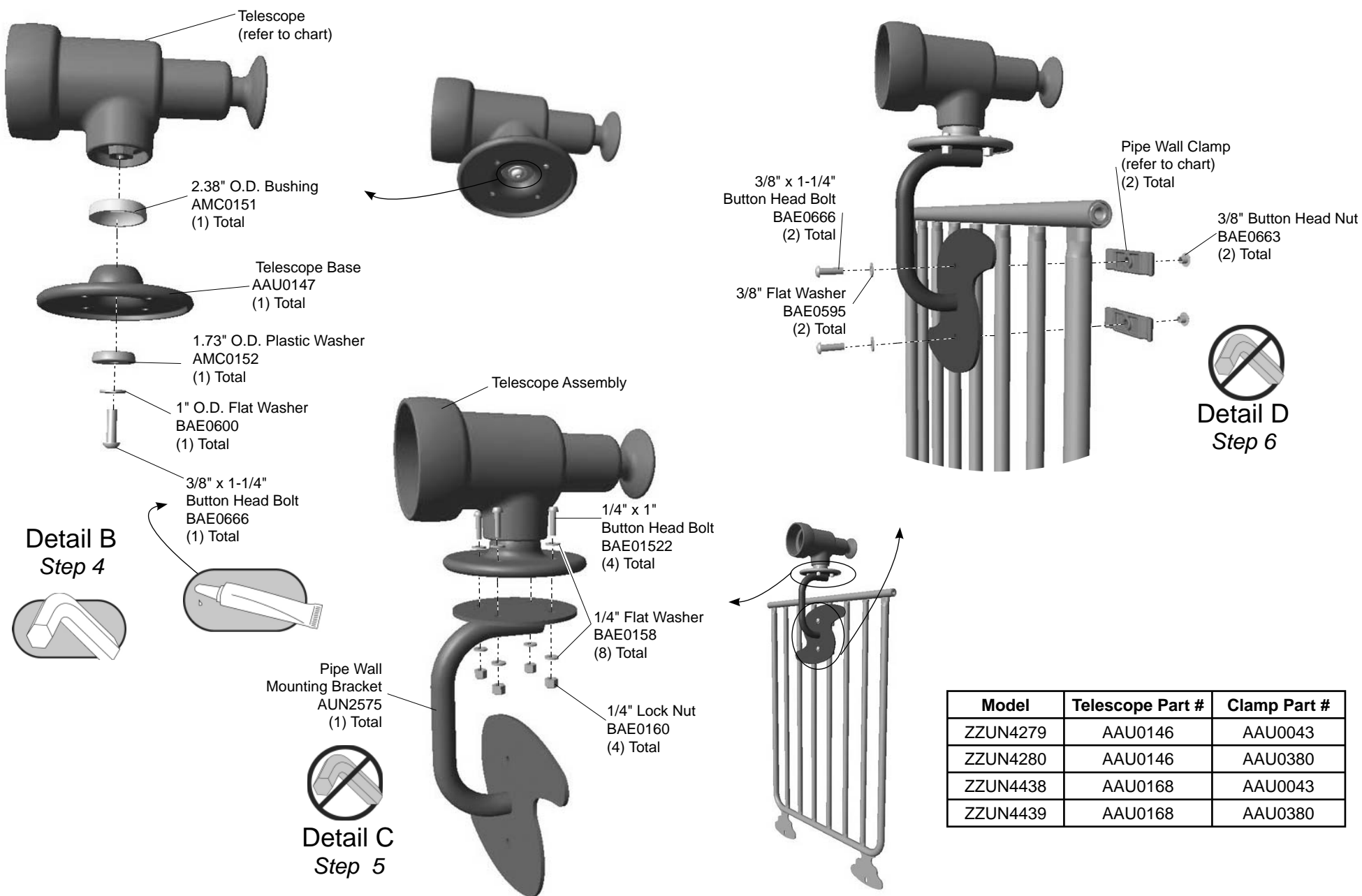
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Assemble the telescope.

Note: *Skip this step if the model being assembled is not a telescope with a lens.*

Step 3: See Detail A. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connections. The eyepiece should turn easily within the assembly.

Attach the telescope to the base.

Step 4: See Detail B. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connection.

Attach the telescope to the mounting bracket.

Step 5: See **Detail C.** Attach as shown.

Attach the bracket to the pipe wall barrier.

Step 6: See **Detail D.** Position the bracket on the proper side of the pipe wall barrier looking out from the structure. The telescope should extend above the pipe wall barrier with the eyepiece toward the deck. Attach as shown.

Final Details.

Step 7: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN4279 - TELESCOPE PIPE WALL MOUNT (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4

UN4280 - TELESCOPE PIPE WALL MOUNT (PM)

PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0380	CLAMP - STEERING WHEEL	2
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4

UN4438 - TELESCOPE PIPE WALL MOUNT (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0166	CASTING - EYEPIECE	1
AAU0167	CASTING - RING HALF	2
AAU0168	CASTING - TELESCOPE MACHINED	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AMC0189	SILKSCREENED LEXAN LENS	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	2

UN4439 - TELESCOPE PIPE WALL MOUNT (PM)

PART NO.	DESCRIPTION	QTY.
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0166	CASTING - EYEPIECE	1
AAU0167	CASTING - RING HALF	2
AAU0168	CASTING - TELESCOPE MACHINED	1
AAU0380	CLAMP - STEERING WHEEL	2
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AMC0189	SILKSCREENED LEXAN LENS	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	2




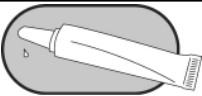

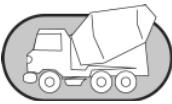
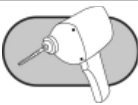


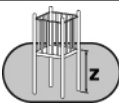


Assembly View

Installation Instructions
Playmakers® Model PM4090
Centerline Pipe Wall Barrier

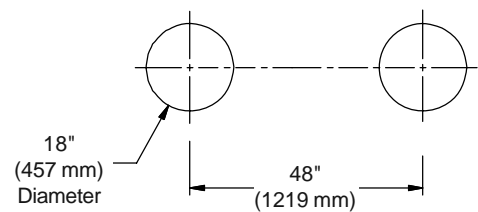
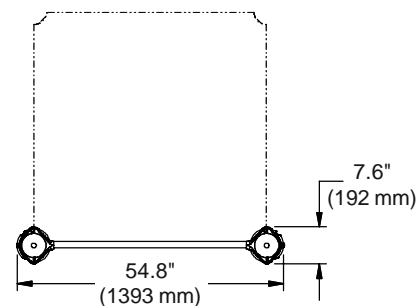
Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 installation-hours
Weight: 43 lbs. (19,4 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

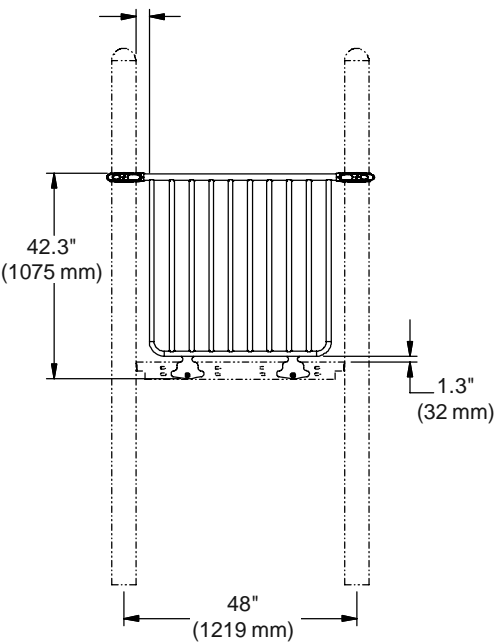
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

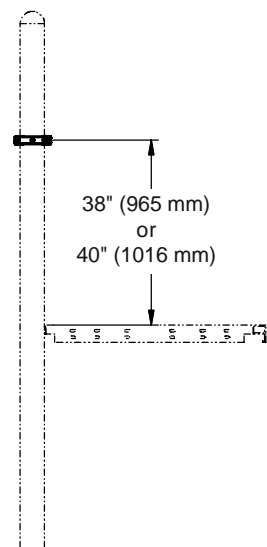
Top View



Footing Diagram

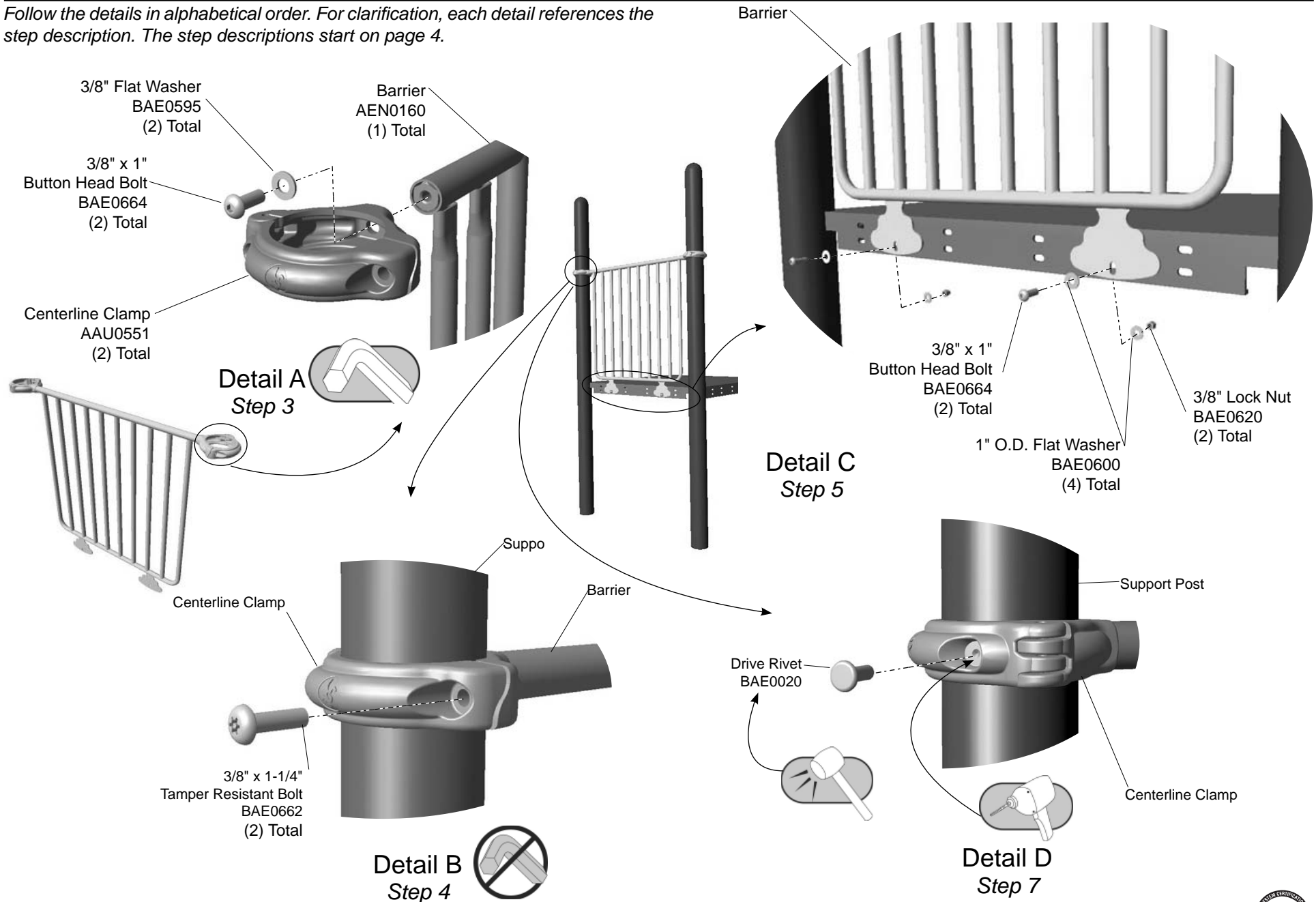


Elevation View



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

Step 3: See **Detail A**. Attach as shown. Make sure the clamps open the same direction.

Attach the clamps to the support posts.

Step 4: See **Detail B**. Lift the barrier into position against the deck. Close the clamps around the support posts. Align the barrier plates with the deck. Attach as shown. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Note: To avoid clamp interference, the deck has been provided with an upper and lower set of holes. Choose the either set of holes that works best with your clamp placement condition.

Attach the bottom of the barrier to the deck.

Step 5: See **Detail C**. Attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

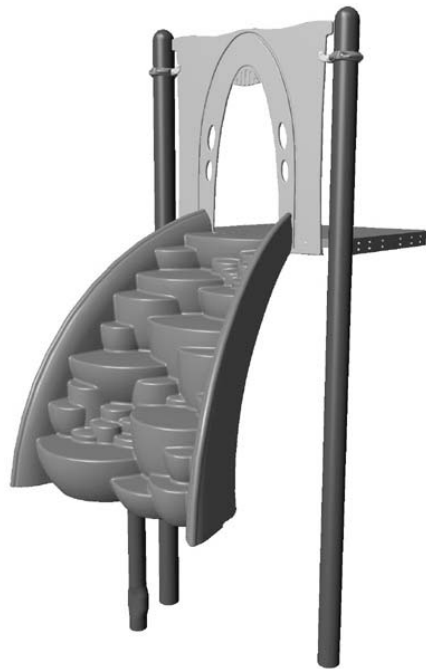
PM4090 - CENTERLINE PIPE WALL BARRIER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0160	BARRIER - 41" CENTERLINE PIPEWALL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	2
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2



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Assembly View

Installation Instructions Playmakers® Model PM7439 Rock Climber To Deck

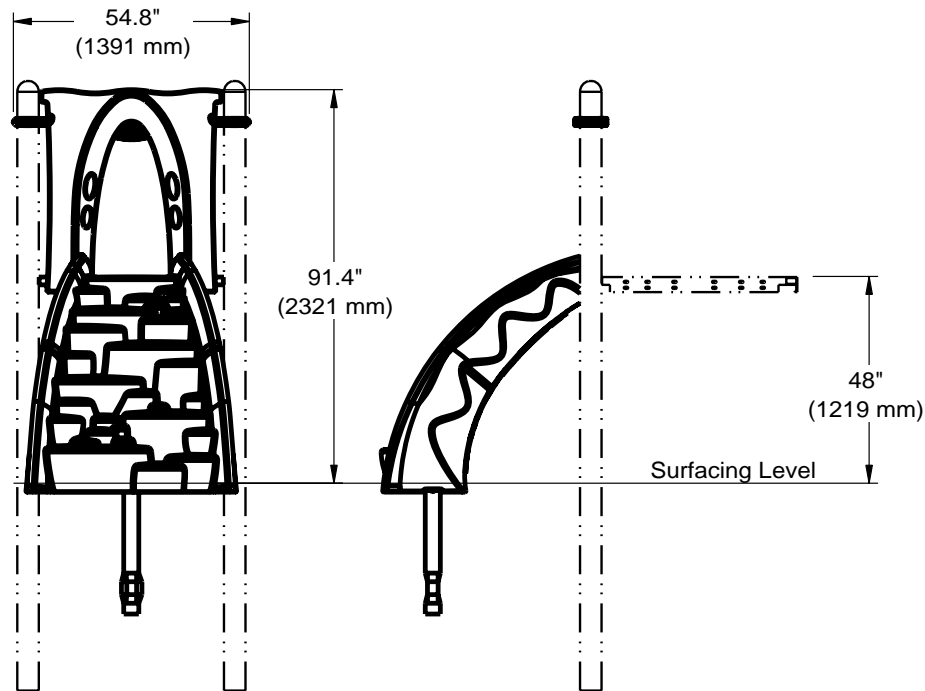
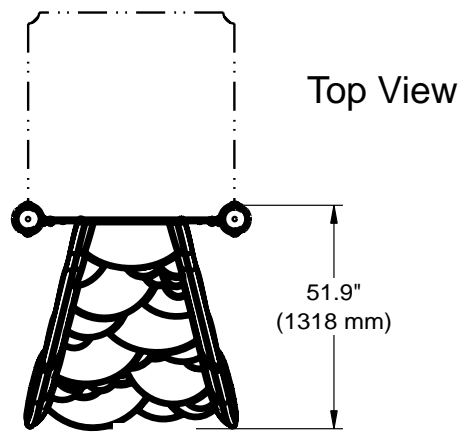
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 153.5 lbs. (69,8 kg)
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

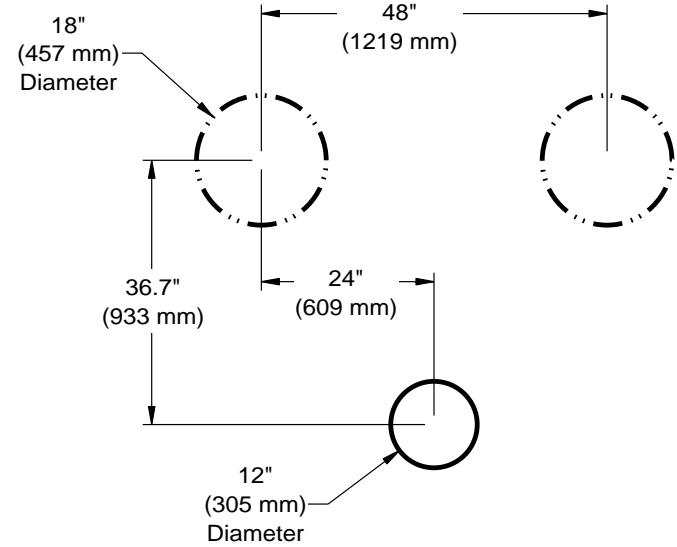
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

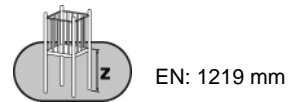
Installation Instructions



Elevation Views



Footing Diagram

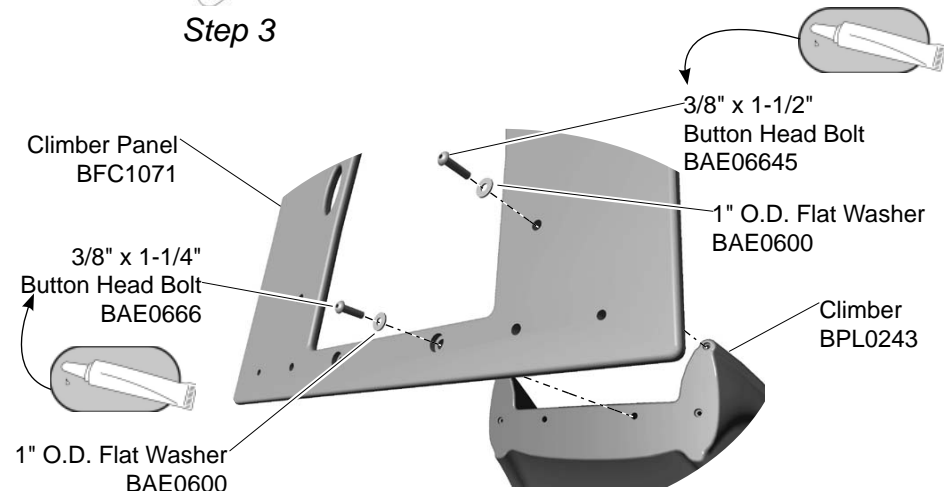


Installation Instructions

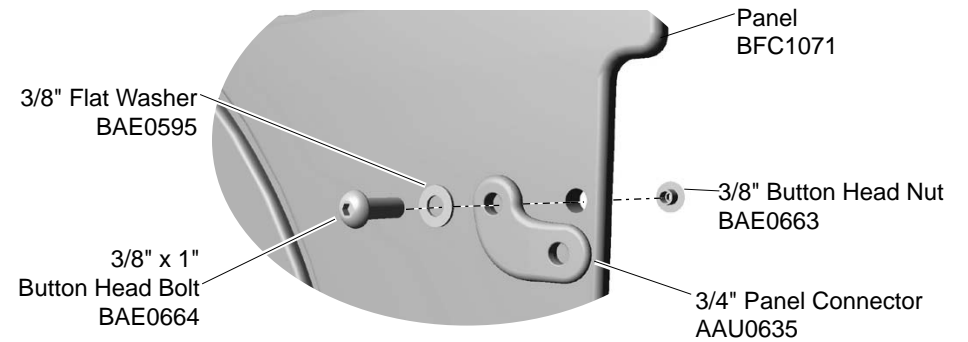
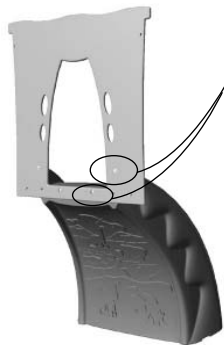
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



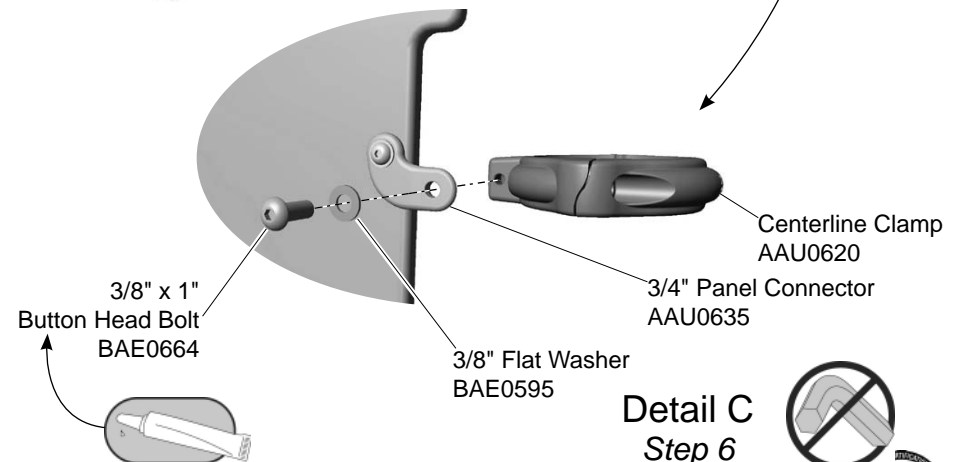
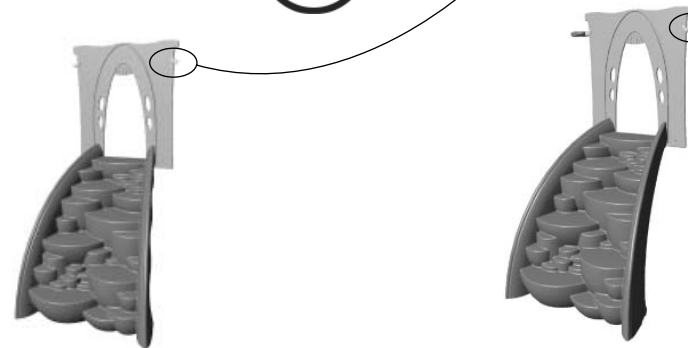
Step 3



**Detail A
Step 4**



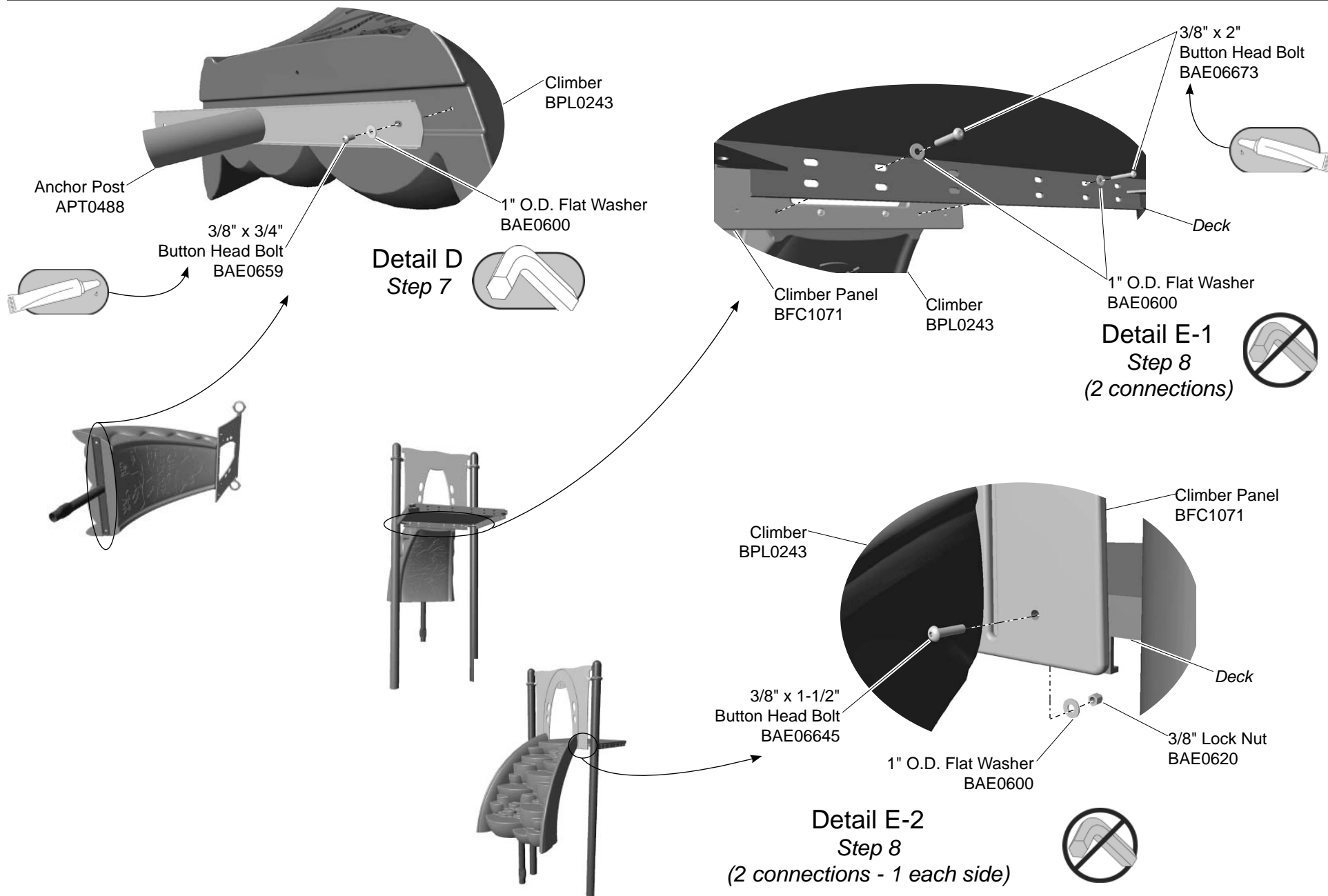
**Detail B
Step 5**



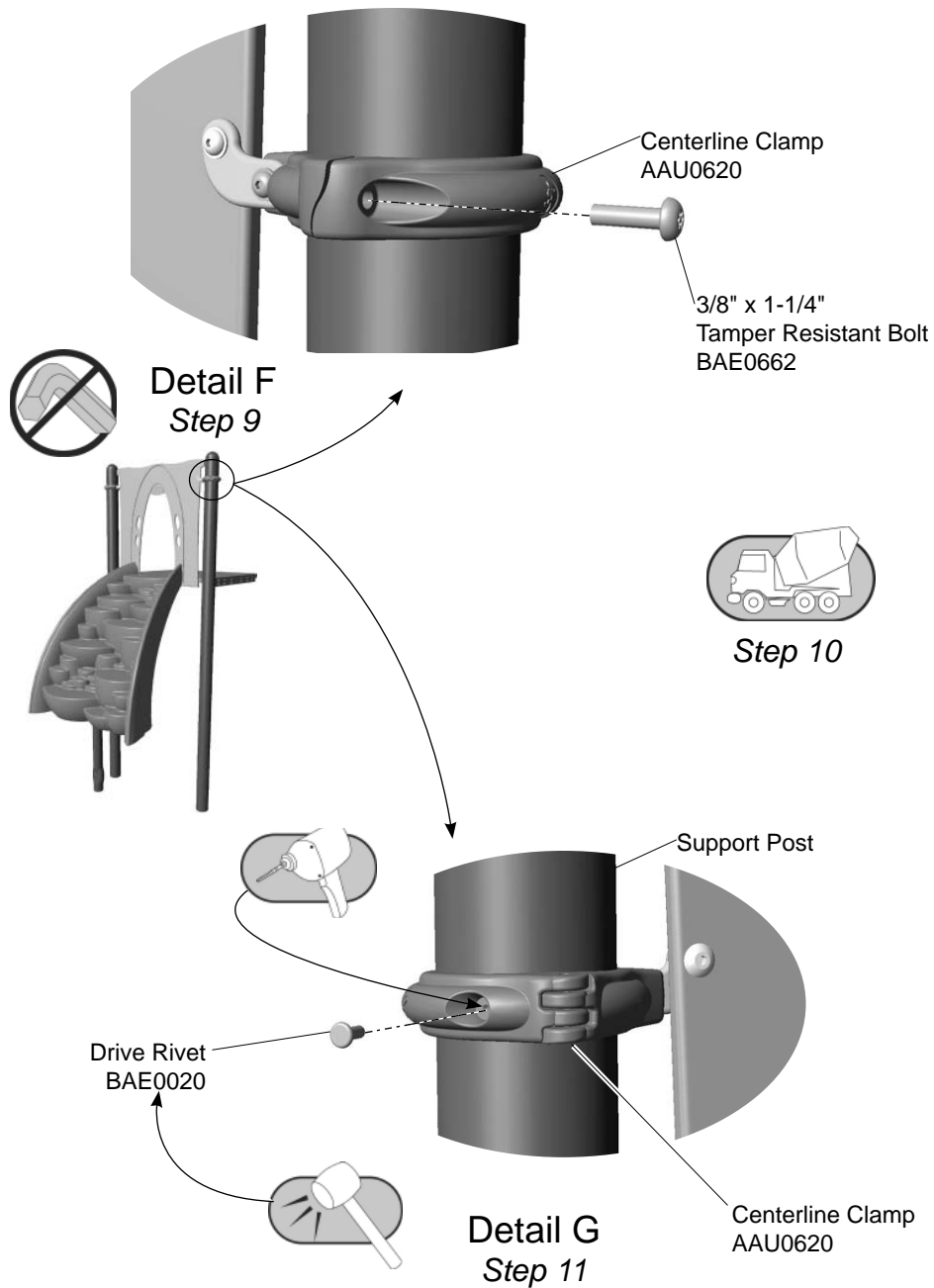
**Detail C
Step 6**



Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footing as shown in the **Component Footing Details**. See the *Playmaker Guidelines*.

Attach the climber panel to the climber.

Step 4: Attach the climber panel to the panel. See **Detail A**. Select the climber panel, the climber, and the appropriate hardware. There are (2) two connections for each size bolt. With the flat side of the panel facing away from the climber, apply a drop of loctite to the bolt threads and attach the panel to the climber as shown. Fully tighten connections. The *bottom outside* holes must be left open for attachment to the deck.

Attach the panel connectors and clamps to the panel.

Step 5: Attach the panel connectors to the panel. See **Detail B**. Select (2) two panel connectors, and the appropriate hardware. Attach the *short* leg of the connectors to the climber side of the panel as shown.

Step 6: Attach the clamps to the connectors. See **Detail C**. Select (2) two offset centerline clamps, and the appropriate hardware. Attach each clamp to the *panel* side of a connector as shown.

Step 7: Attach the anchor post to the climber. See **Detail D**. Select the anchor post and the appropriate hardware. There are (2) two connections. Apply a drop of loctite to the bolt threads and attach the anchor post to the bottom of the climber as shown. Fully tighten connections.

Step 8: Attach the climber and panel to the deck. See **Details E1 and E2**. Select the climber assembly and the appropriate hardware. There are (4) four total connections, (2) two for each size bolt. With adequate manpower, lift the climber into place against the deck with the support post in the footing. Attach to the deck as shown in the details. Apply a drop of loctite to the 2" bolt threads before threading into to climber.

Secure the clamps to the support posts.

Step 9: Secure the clamps to the support posts. See **Detail F**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Attach each clamp to a post as shown.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Step 11: Install the drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM7439 - ROCK CLIMBER TO DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
APT0488	POST - 45.00" x 22.42" x 3.75"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	2
BFC1071	SHEET - 42.00" x 47.00" x .75" ROCK CLIMBER PANEL	1
BPL0243	ROCK CLIMBER	1



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM7948	24" (610 mm)	67.8 lbs. (30.82 kg)
ZZPM7949	36" (915 mm)	72.6 lbs. (33 kg)
ZZPM7950	48" (1220 mm)	76.6 lbs. (34.82 kg)
ZZPM7956	60" (1525 mm)	80.7 lbs. (36.68 kg)
ZZPM7957	72" (1829 mm)	85.9 lbs. (40.7 kg)

Installation Instructions

Playmakers® Models PM7948, PM7949,
PM7950, PM7956, and PM7957

Silo Climber

24 in (610 mm), 36 in (914 mm), 48 in (1219 mm),
60 in (1524 mm), 72 in (1829 mm) Deck

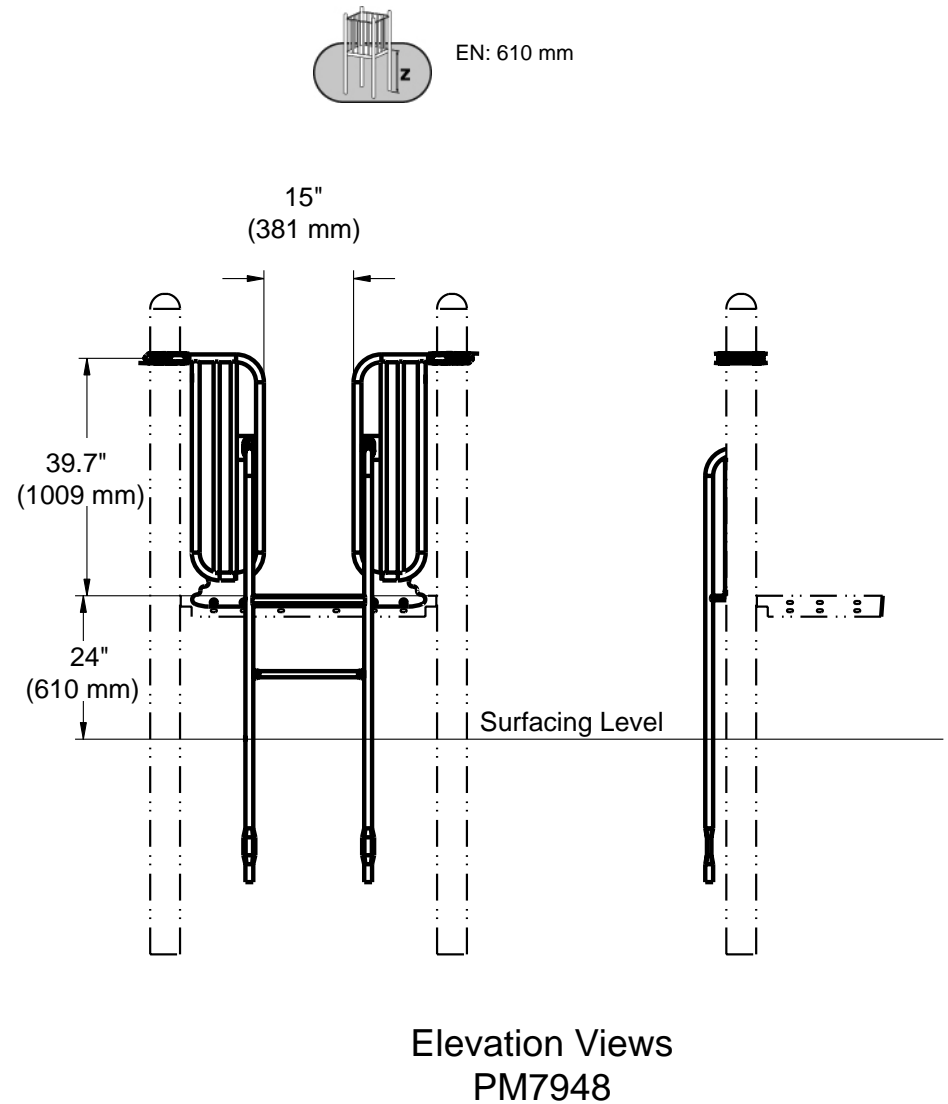
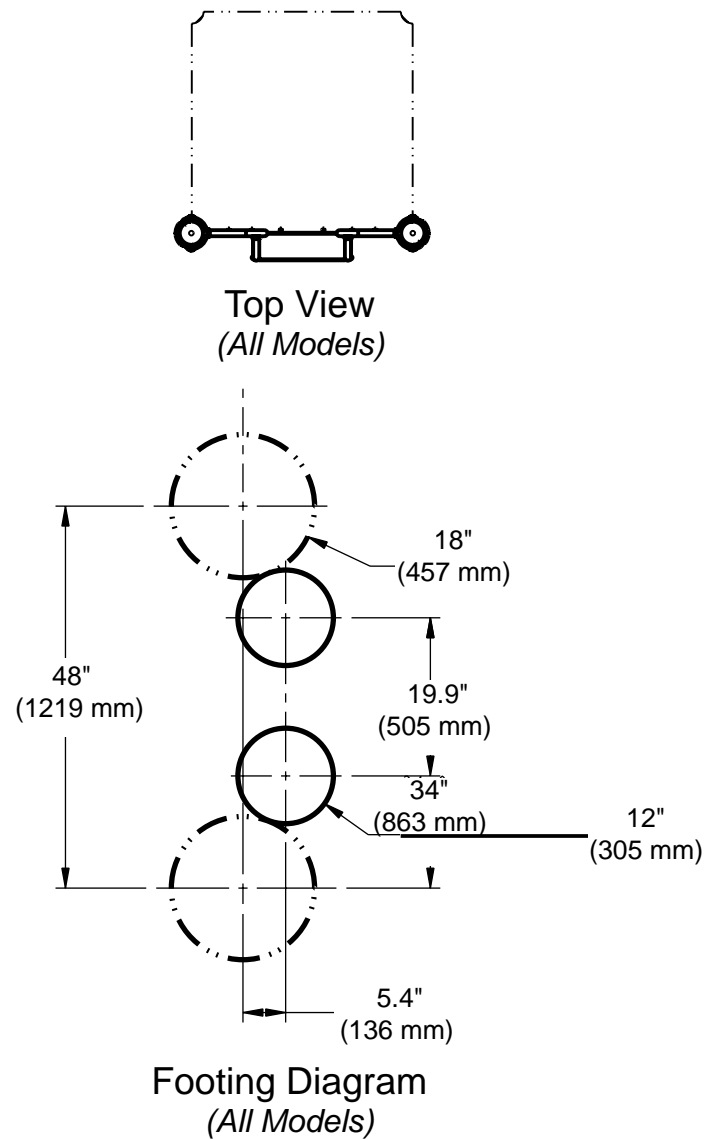
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1.5 hours
 Weight: (refer to table)
 Concrete Required: 0.06 cubic yard (0,1 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

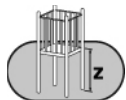
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Hammer
	Drill		Critical Fall Height

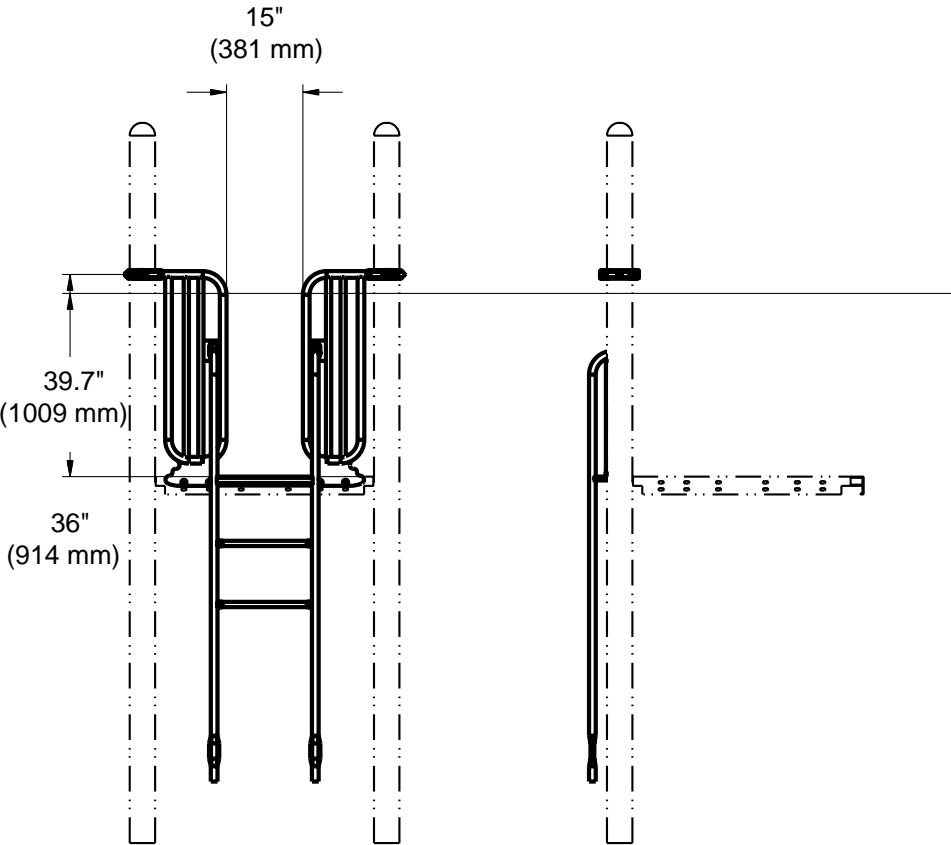
Installation Instructions



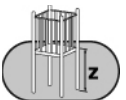
Installation Instructions



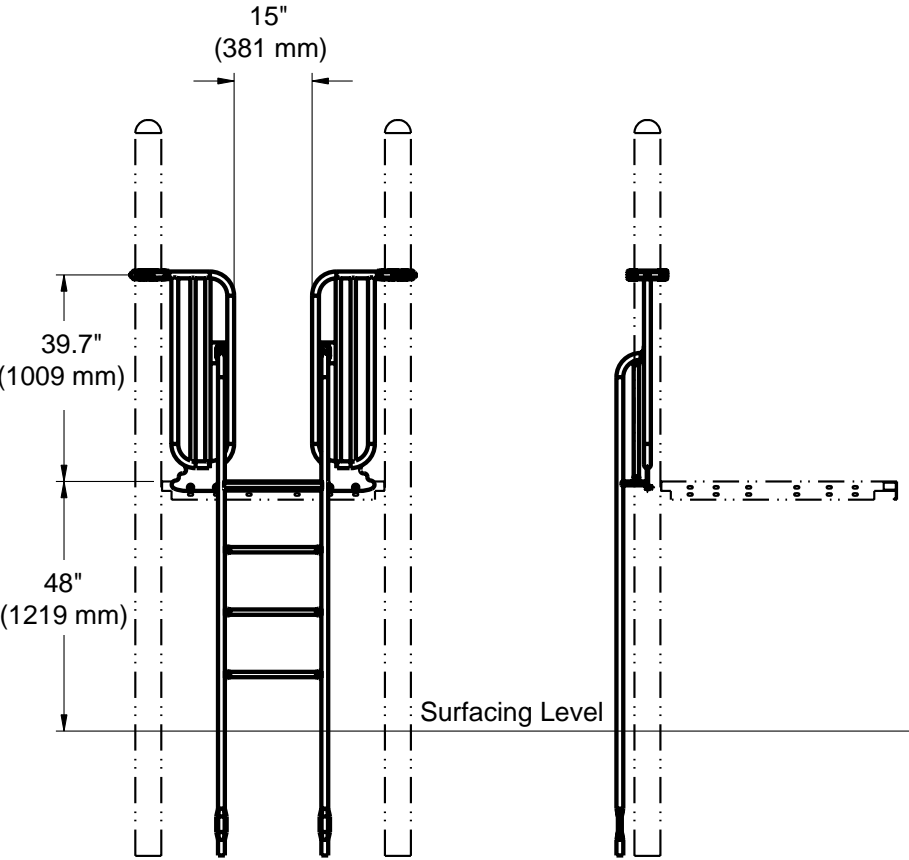
EN: 914 mm



Elevation Views
PM7949



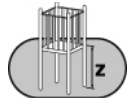
EN: 1219 mm



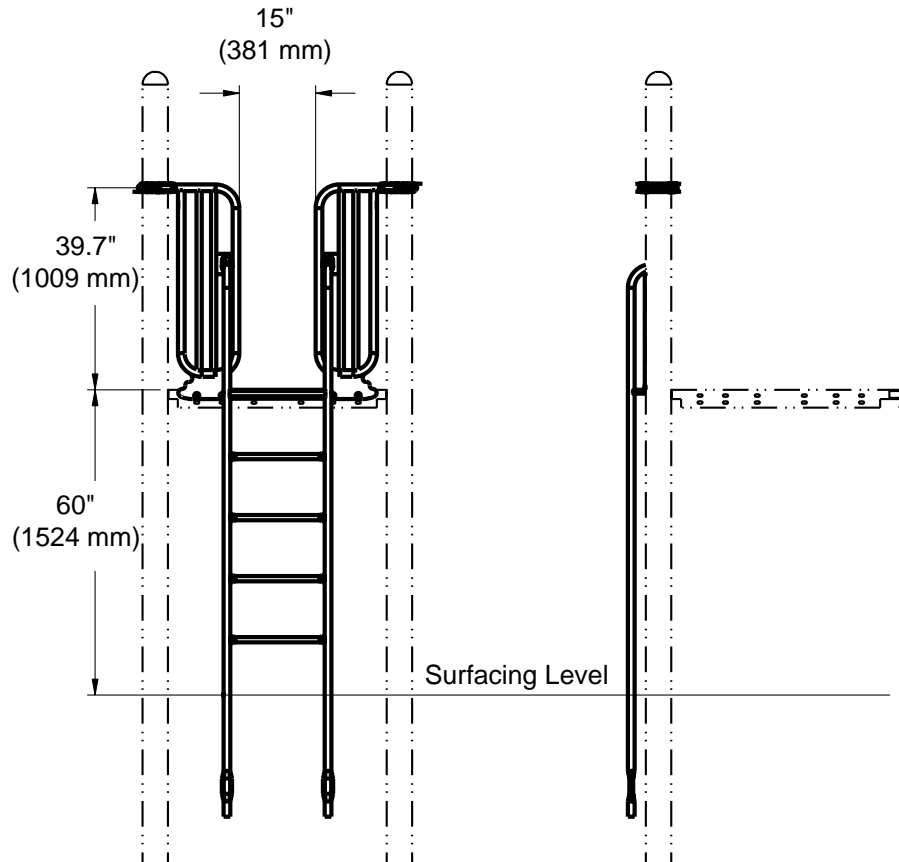
Elevation Views
PM7950



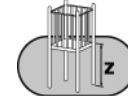
Installation Instructions



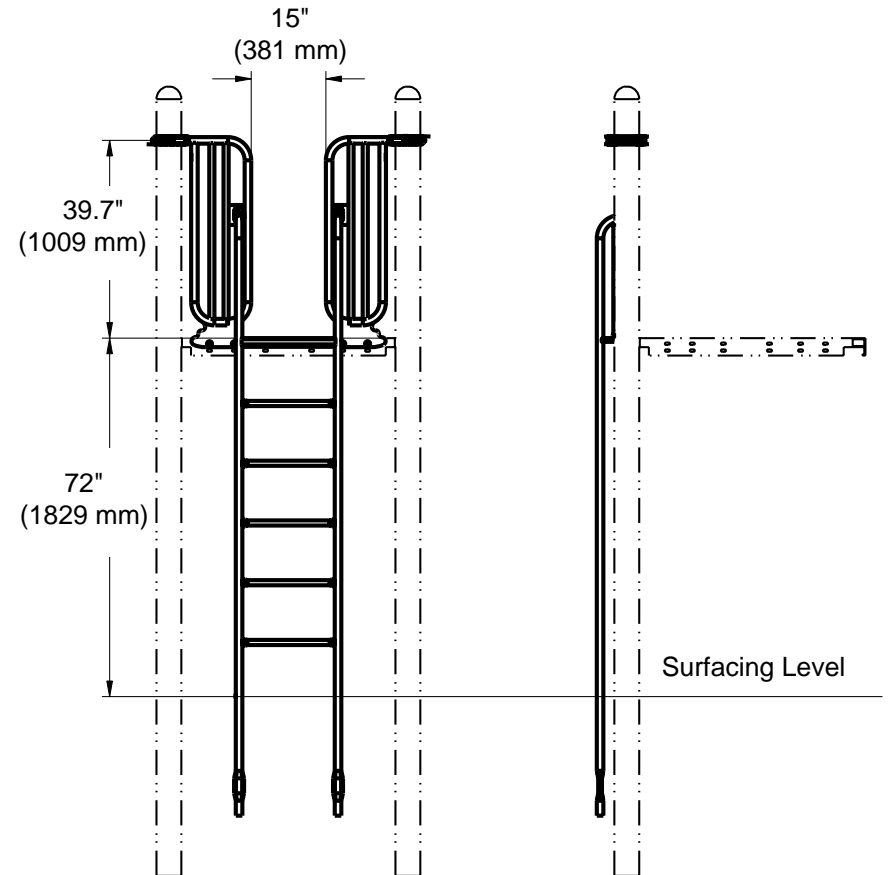
EN: 1524



Elevation Views
PM7956



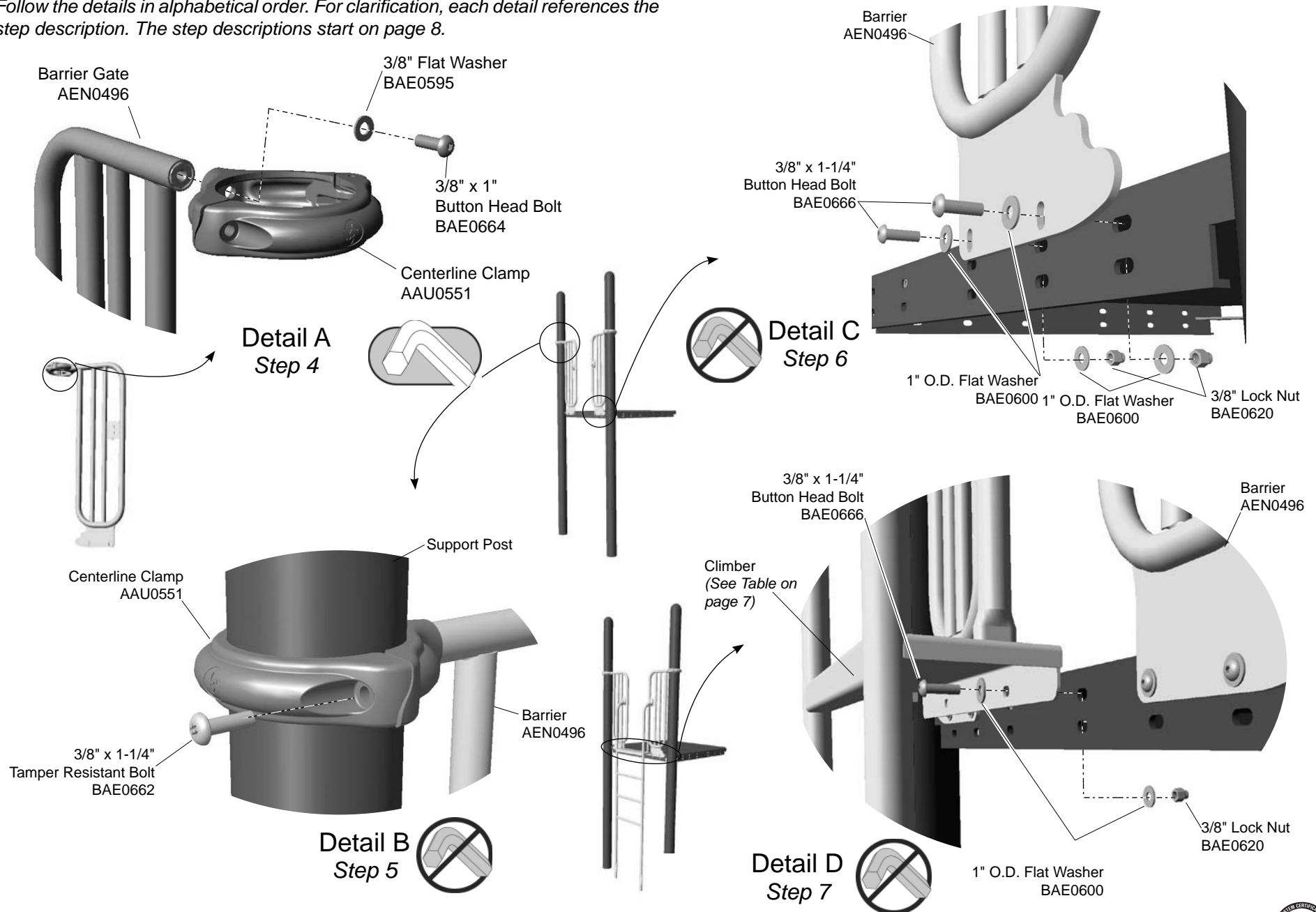
EN: 1829 mm



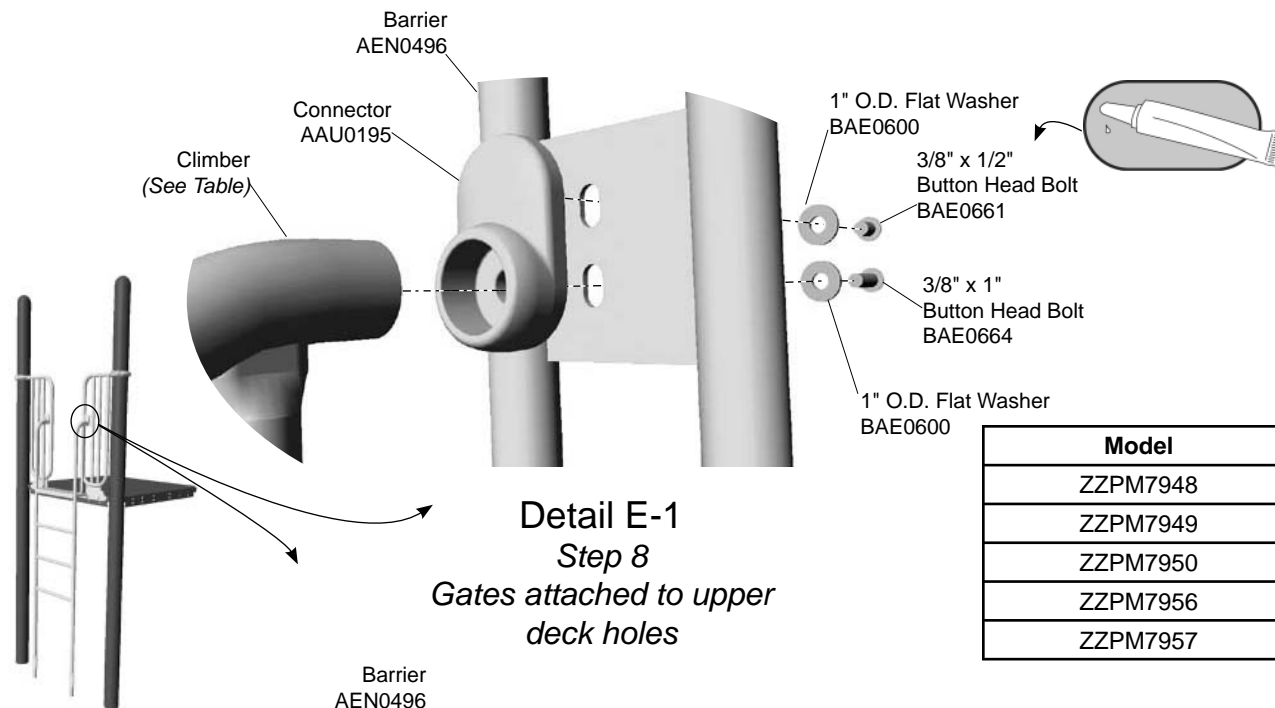
Elevation Views
PM7957

Installation Instructions

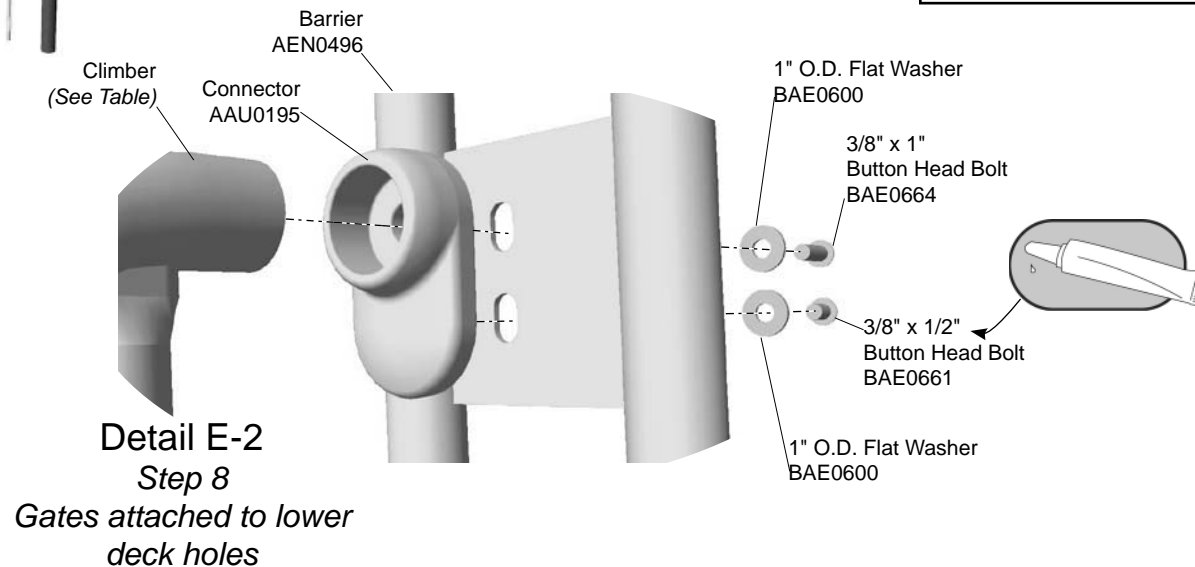
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



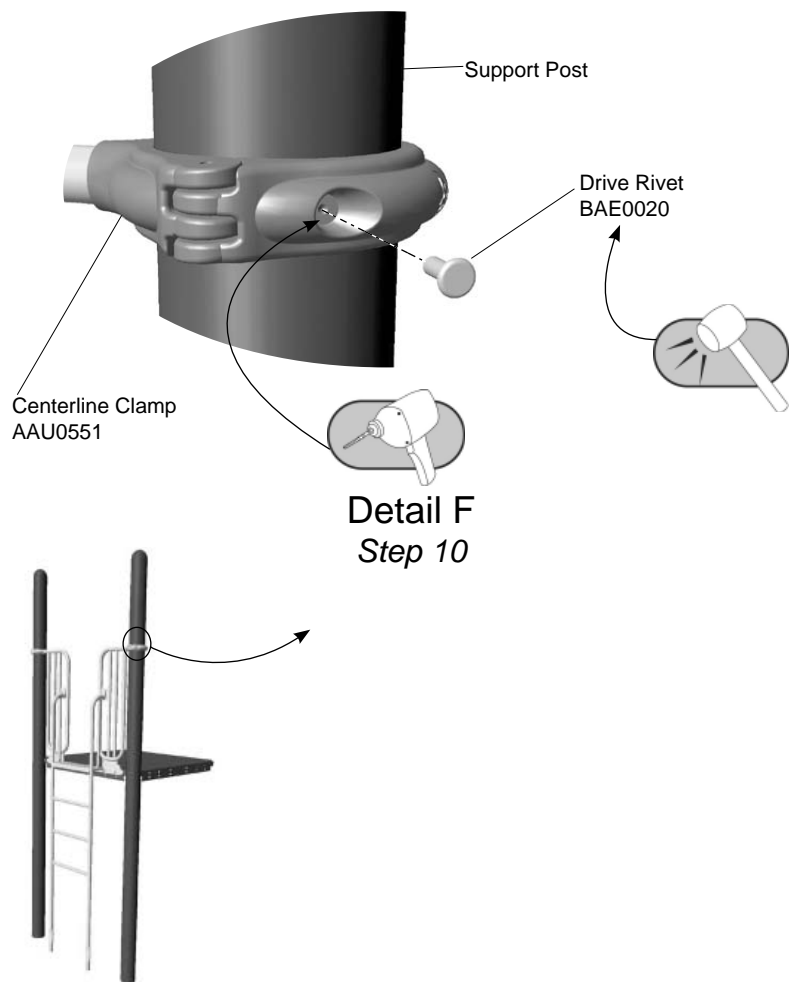
Installation Instructions



Model	Part Number	Deck Height
ZZPM7948	ACL0219	24" (610 mm)
ZZPM7949	ACL0220	36" (915 mm)
ZZPM7950	ACL0222	48" (1220 mm)
ZZPM7956	ACL0224	60" (1525 mm)
ZZPM7957	ACL0226	72" (1830 mm)



Installation Instructions



Installation Instructions

__ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__ **Step 2:** Separate and identify all components and hardware.

__ **Step 3:** Excavate footings as shown in the **Component Footing Details** illustrated in the Playmaker Guidelines.

Attach the clamps to the barrier gates.

__ **Step 4:** Attach the clamps to the barrier gates. See **Detail A**. Select both barrier gates and (2) two clamps, and the appropriate hardware. Position the top of each barrier against the neck of the clamp and make the connection as shown. Fully tighten connections.

Attach the clamps to the support posts.

__ **Step 5:** Attach the clamps to the support posts. See **Detail B**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Lift each barrier gate into position against the deck and attach each clamp to the support post as shown. Leave the connections loose. The location of the clamp may need to be changed.

Attach the barrier gates to the deck.

__ **Step 6:** Attach the barrier gates to the deck. See **Detail C**. Select the appropriate hardware. There are (4) four total connections, (2) two per gate. Align the barrier gates with either the *top* or the *bottom* holes of the deck.

Note: The connectors are adjusted according the the barrier gate location. See **Detail E-1** and **Detail E-2**.

Attach the silo climber to the deck.

__ **Step 7:** Attach the silo climber to the deck. See **Detail D**. Select the appropriate hardware. There are (2) two connections. Place the silo climber into the prepared footings. Align the top of the silo climber with the *top* deck holes.

Important Note: The top step plate of the silo climber **must** be flush with the top surface of the adjoining deck.

Attach the silo climber to the barrier gate.

__ **Step 8:** Attach the silo climber to the barrier gate. See **Detail E-1** and **Detail E-2**. Select (2) two connectors and the appropriate hardware. There are (4) four connections. Apply locite to the 3/8" x 1/4" bolt threads before threading into the adaptor.

Note: The connectors are adjusted according the the barrier gate location.

Final Details.

__ **Step 9:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__ **Step 10:** Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM7948 - 24 in (610 mm) DECK SILO CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0195	CONNECTOR - 1.315" O.D. GATE	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0219	CLIMBER - 24" w/LABEL AT 24"	1
AEN0496	BARRIER - 13.00" x 42.19" SILO GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RSTNT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	6

PM7949 - 36 in (914 mm) DECK SILO CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0195	CONNECTOR - 1.315" O.D. GATE	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0220	CLIMBER - 36" w/LABEL AT 24"	1
AEN0496	BARRIER - 13.00" x 42.19" SILO GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RSTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	6

PM7950 - 48 in (1219 mm) DECK SILO CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0195	CONNECTOR - 1.315" O.D. GATE	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0222	CLIMBER - 48" w/LABEL AT 24"	1
AEN0496	BARRIER - 13.00" x 42.19" SILO GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RSTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	6

PM7956 - 60 in (1524 mm) DECK SILO CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0195	CONNECTOR - 1.315" O.D. GATE	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0224	CLIMBER - 60" w/LABEL AT 24"	1
AEN0496	BARRIER - 13.00" x 42.19" SILO GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RSTNT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	6

PM7957 - 72 in (1829 mm) DECK SILO CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0195	CONNECTOR - 1.315" O.D. GATE	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0226	CLIMBER - 72" w/LABEL AT 24"	1
AEN0496	BARRIER - 13.00" x 42.19" SILO GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RSTNT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	6



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Assembly View (representative model)

Model	Deck Height	Weight
ZZPM8100	36" (915 mm)	81.4 lbs. (37 kg)
ZZPM8110	48" (1220 mm)	89.1 lbs. (40,5 kg)
ZZPM8120	60" (1525 mm)	97.2 lbs. (44,2 kg)
ZZPM8130	72" (1830 mm)	104.3 lbs. (47,4 kg)

Installation Instructions

Playmakers® Models PM8100-PM8130

Beanstalk Climber

36 in. (914 mm) to 72 in. (1829 mm) decks

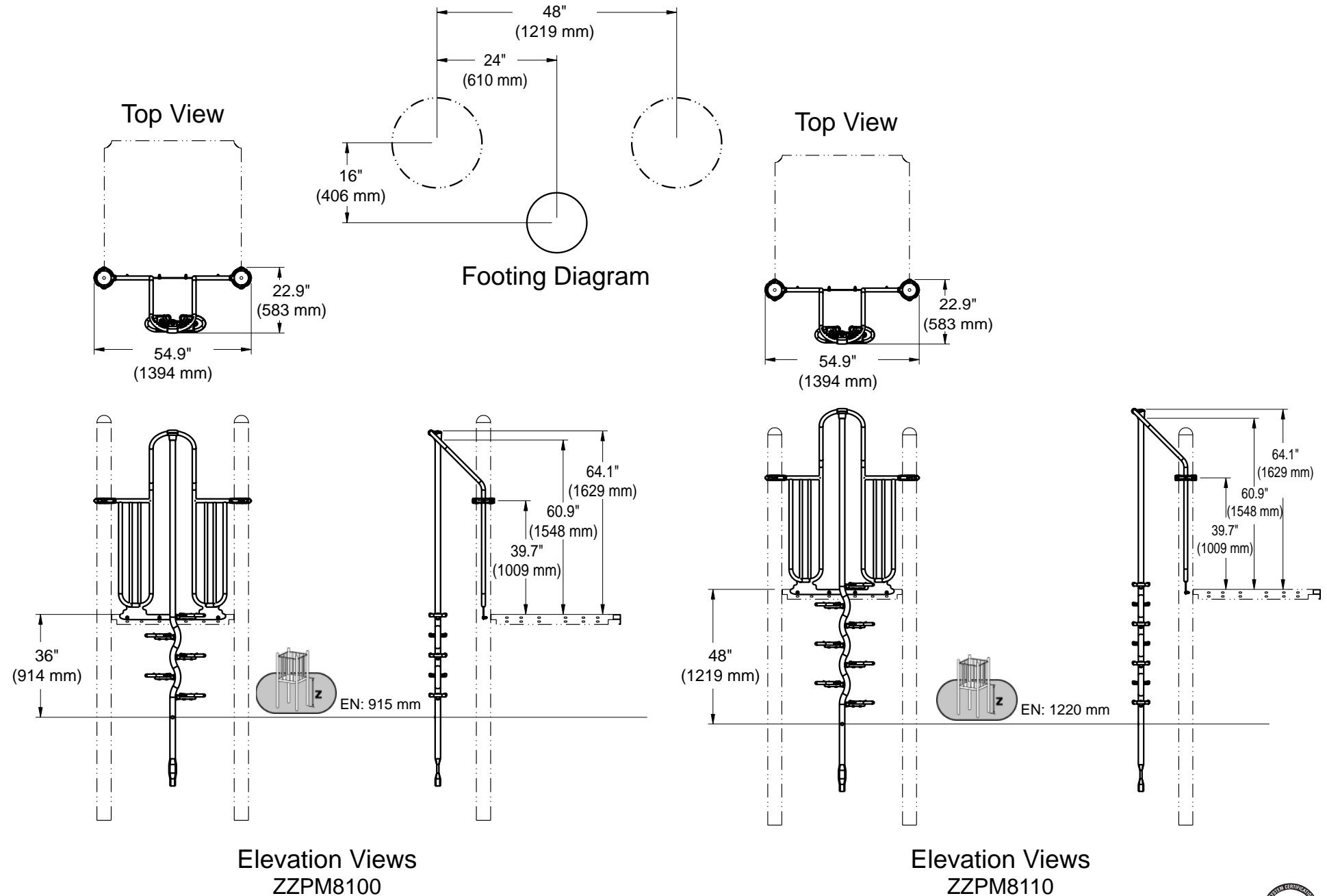
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: (refer to table)
 Concrete Required: 0.3 cubic yard (0,2 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

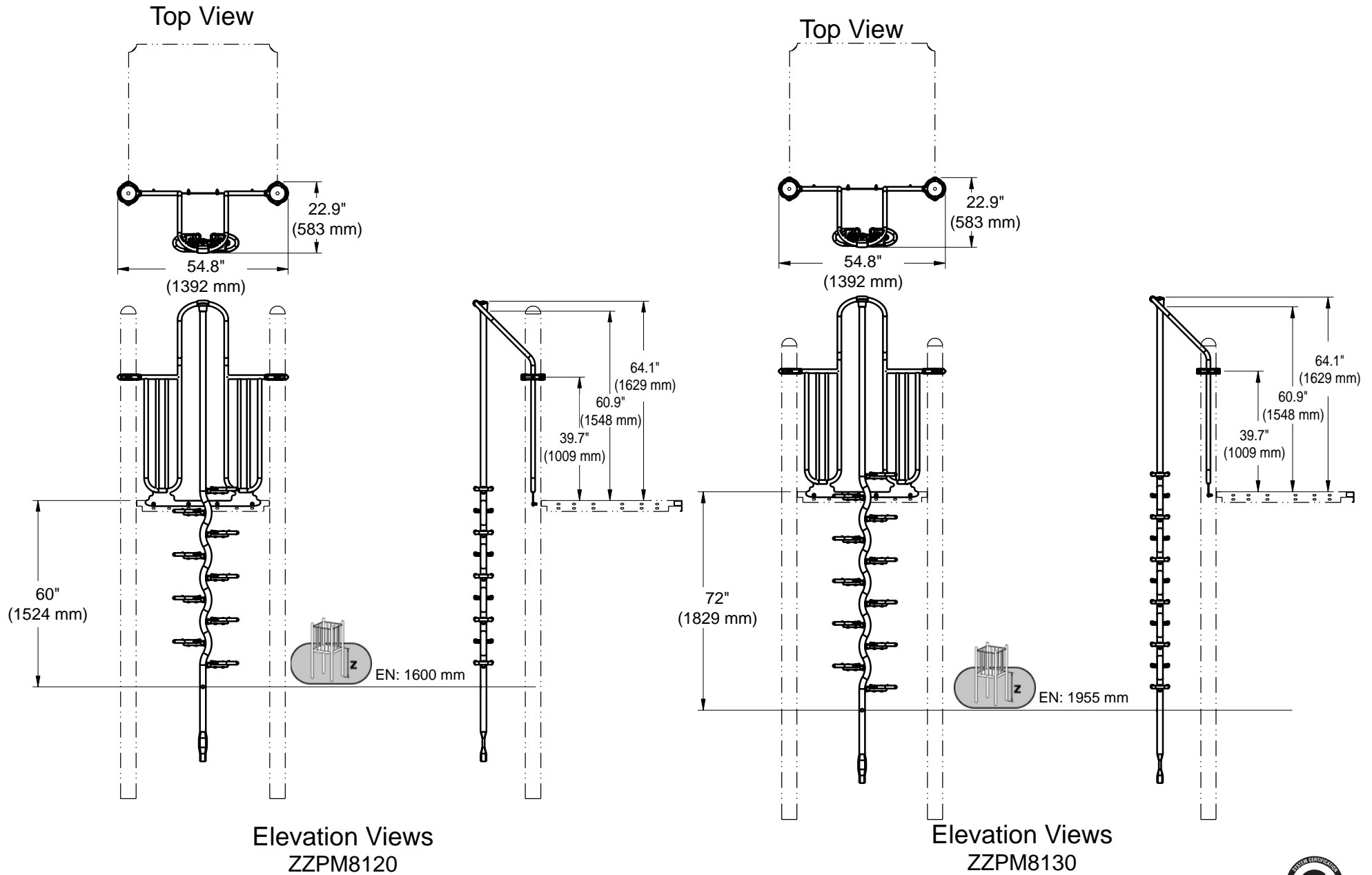
ICON KEY

	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

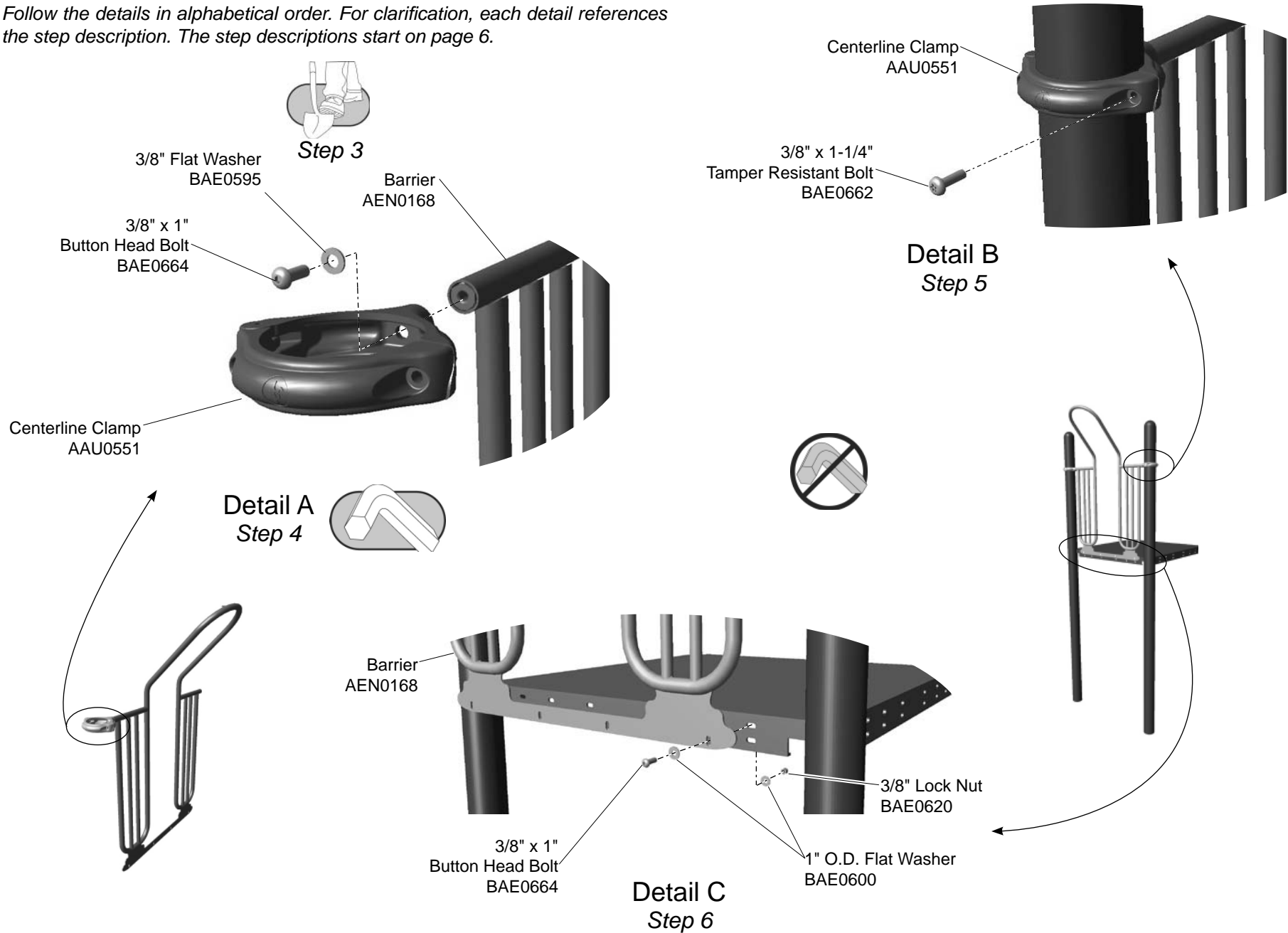


Installation Instructions

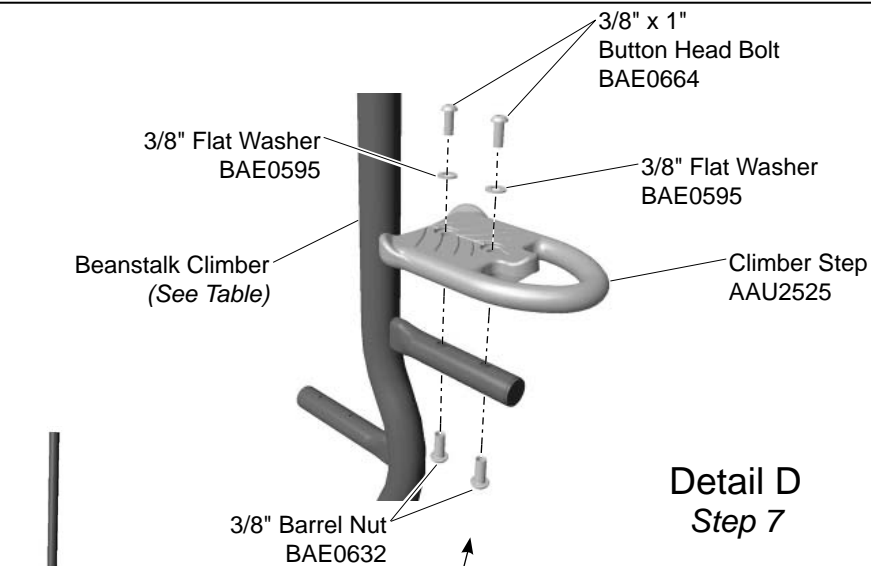


Installation Instructions

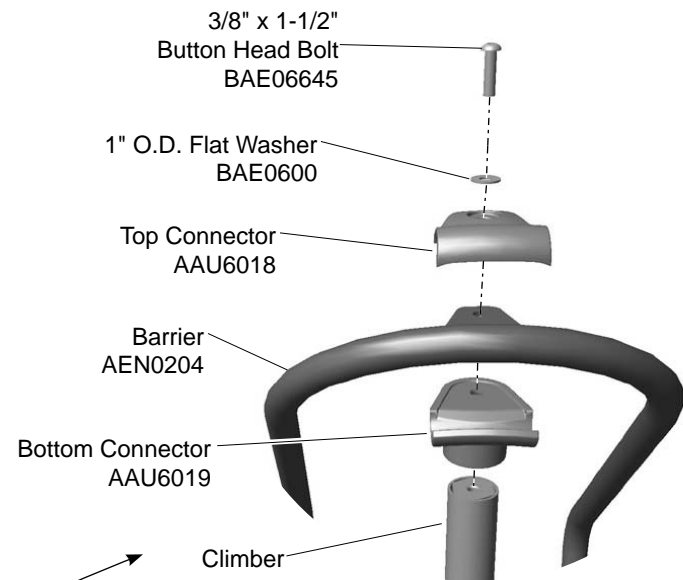
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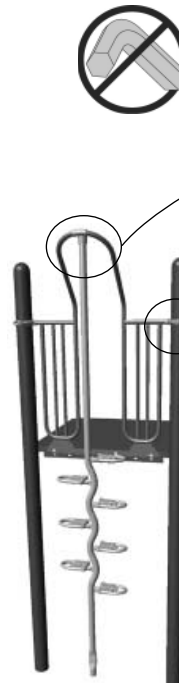
Installation Instructions



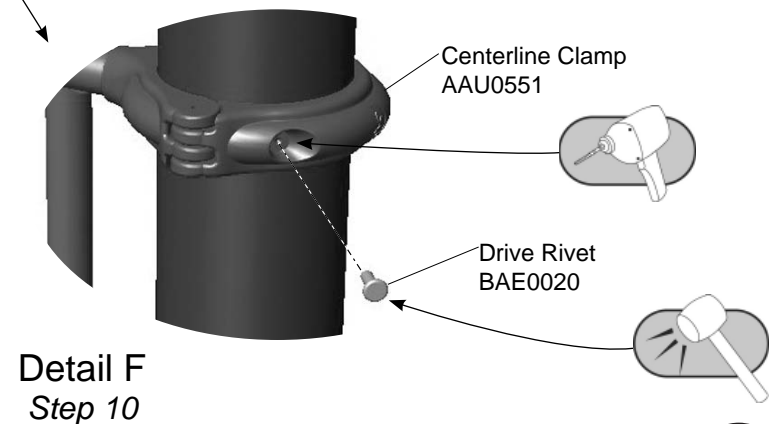
Detail D
Step 7



Detail E
Step 8



Step 9



Detail F
Step 10

Climber Deck Height	Climber Part Number	Number Of Step/Handles
36 in. (914 mm)	ACL0047	5
48 in. (1219 mm)	ACL0048	7
60 in. (1524 mm)	ACL0049	9
72 in. (1829 mm)	ACL0050	11

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only *snug tighten* them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Footings Details**.

Attach the centerline clamps to the arch entry barrier.

Step 4: Attach the centerline clamps to the arch entry barrier. See **Detail A**. Select the arch entry barrier, (2) two clamps, and the appropriate hardware. Position the socket of the clamp over the threaded portion of the barrier top rail, make and fully tighten connections as shown. Ensure the clamps face the same direction.

Attach the centerline clamps to the support posts.

Step 5: Attach the clamps to the support posts. See **Detail B**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Lift the barrier into position against deck, close the clamps around the posts and attach as shown.

Attach the barrier to the deck.

Step 6: Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. The arch entry barrier can be attached to either *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Select the desired set of holes and attach as shown.

Attach the step/handle to the climber.

Step 7: Attach the step/handle to the climber. See **Detail D**. Select the climber weldment, the appropriate *number* of step/handles (*see the table on the detail page*), and the appropriate amount of hardware. There are **(2) two** connections per step. Position each step onto a climber branch and attach as shown.

Attach the climber to the barrier.

Step 8: Attach the climber to the barrier. See **Detail E**. Select the climber assembly, the top and bottom climber connectors, and the appropriate hardware. Slide the climber into the bottom of the lower connector. Place the climber into the excavated footing. Sandwich the barrier tab and rail with the top and bottom climber connectors and attach as shown.

Important Note: When tightening the climber bolt, insure that the climber is parallel to the deck as shown in **Elevation Views**.

Final Details.

Step 9: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Step 10: Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

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ZZPM8100 - 36 in. (914 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	5
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0047	CLIMBER - 36" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8110 - 48 in. (1219 mm) BEANSTALK CLIMBER

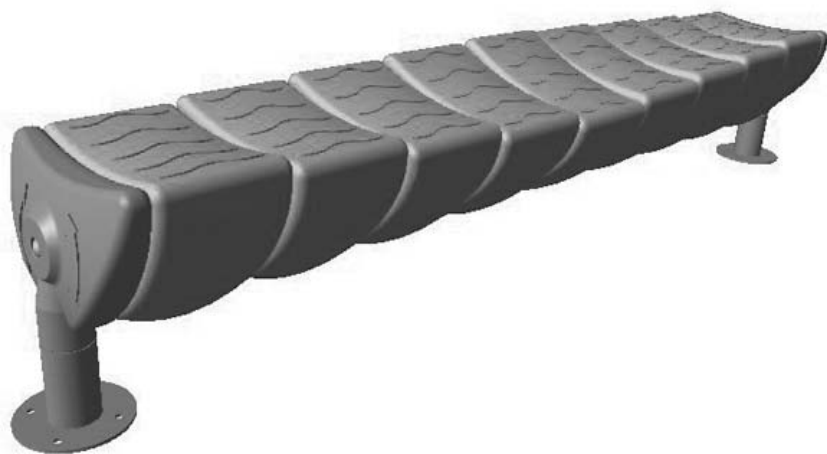
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	7
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0048	CLIMBER - 48" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8120 - 60 in. (1524 mm) BEANSTALK CLIMBER

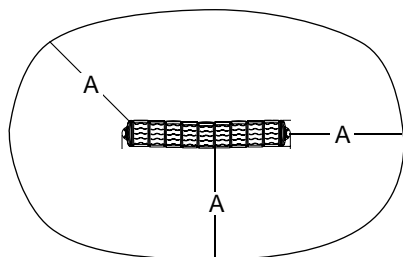
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	9
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0049	CLIMBER - 60" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	18
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8130 - 72 in. (1829mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	11
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0050	CLIMBER - 72" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	28
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



Assembly View (representative model)



Equipment Use Zone
A - (ASTM) 84 in. (2134 mm)
(CSA) 2100 mm
(EN) 1500 mm

Installation Instructions

Universal Models UN7100 and UN7100S







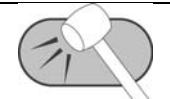
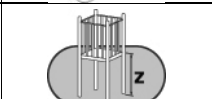
Sidewalk

In-Ground and Surface Mount

Installation Preparation

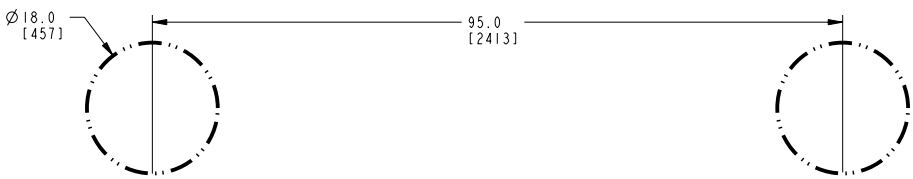
Recommended Crew: Two (2) adults
 Installation Time (In-Ground): 2 man-hours
 Installation Time (Surface Mount): 1 man-hour
 Concrete Required: 0.26 cubic yard (0,20 cubic meters)
 Use Zone: Refer to info below
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

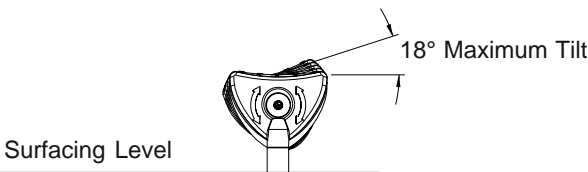
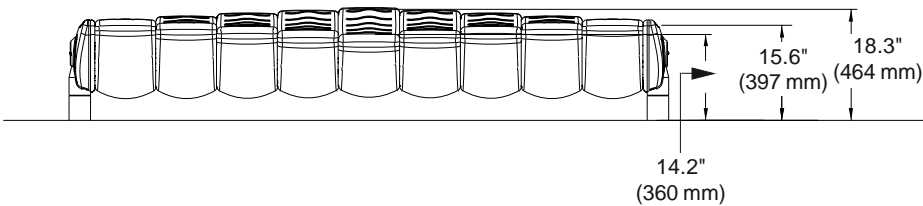
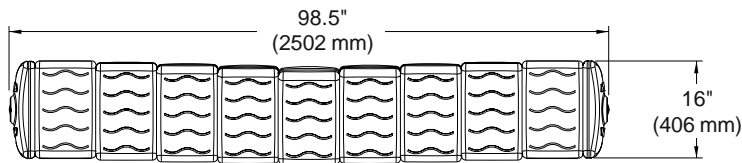
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram
Both Models

Top View



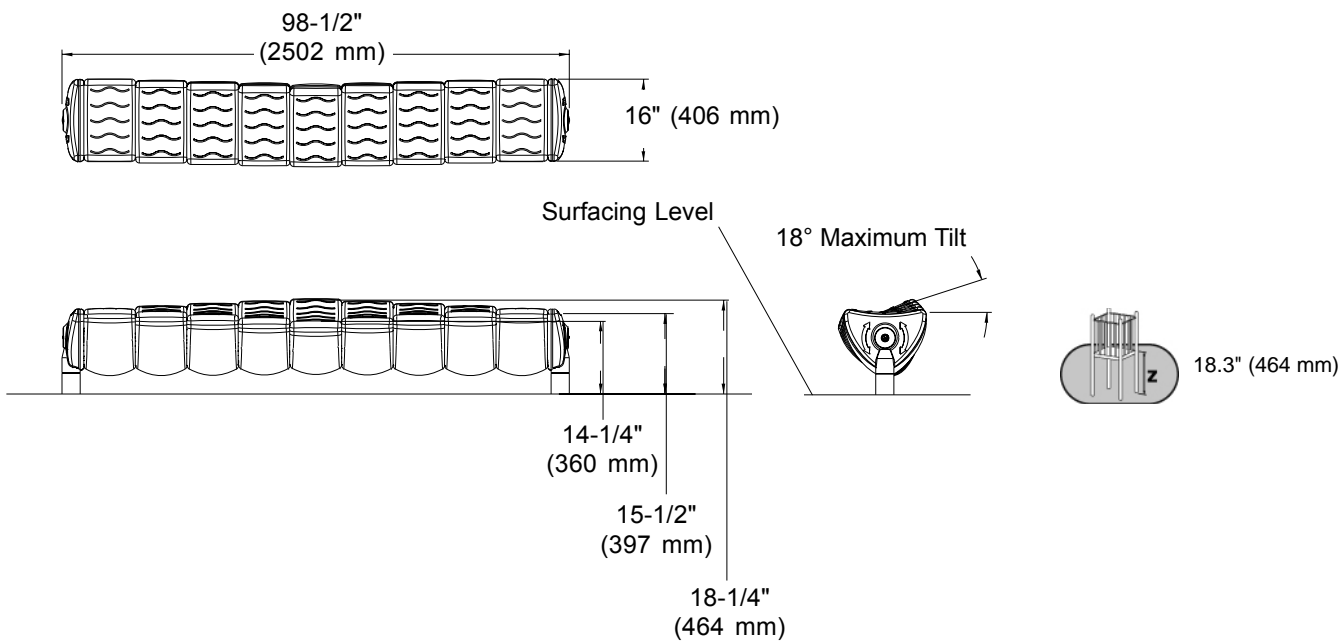
Elevation Views
UN7100



Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

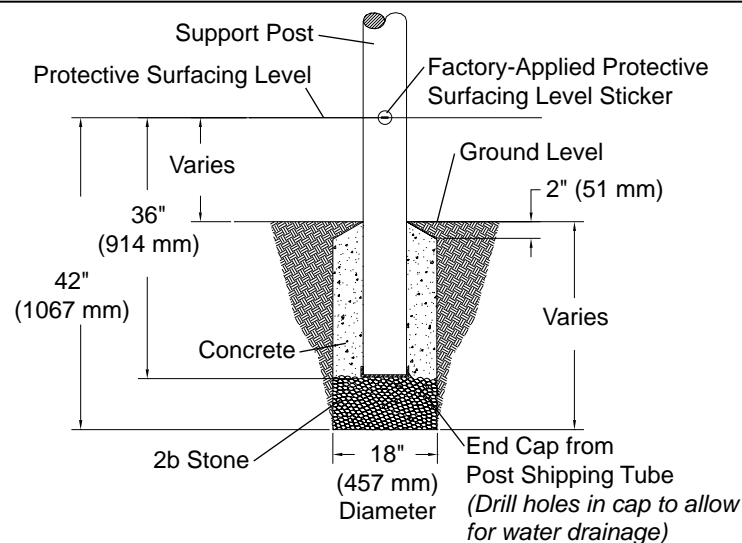
Top View



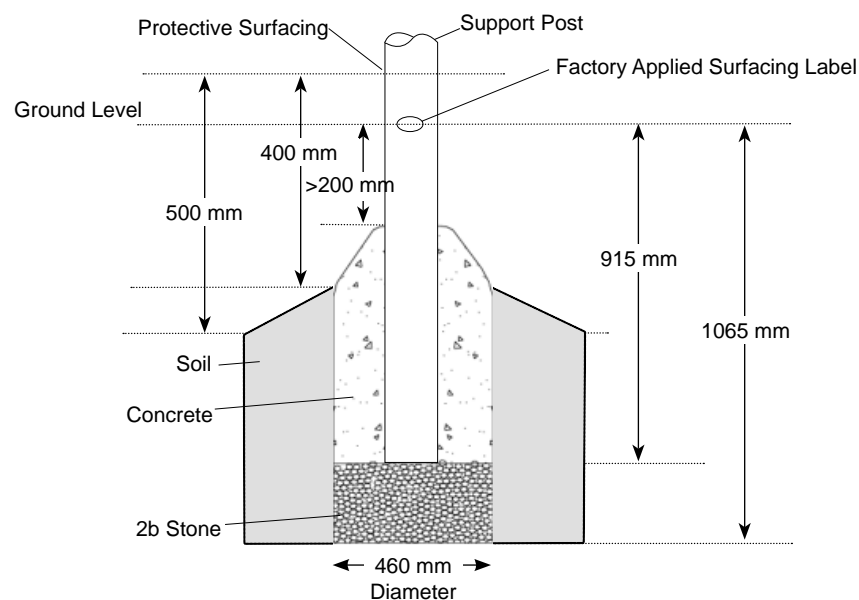
Elevation Views
UN7100S



Installation Instructions



Support Post Footing Detail (ASTM/CSA)

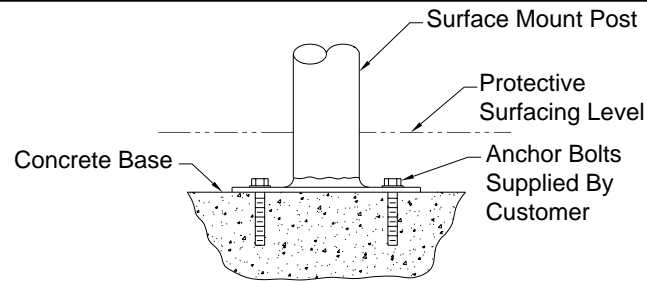


Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions



Surface Mount Footing Detail

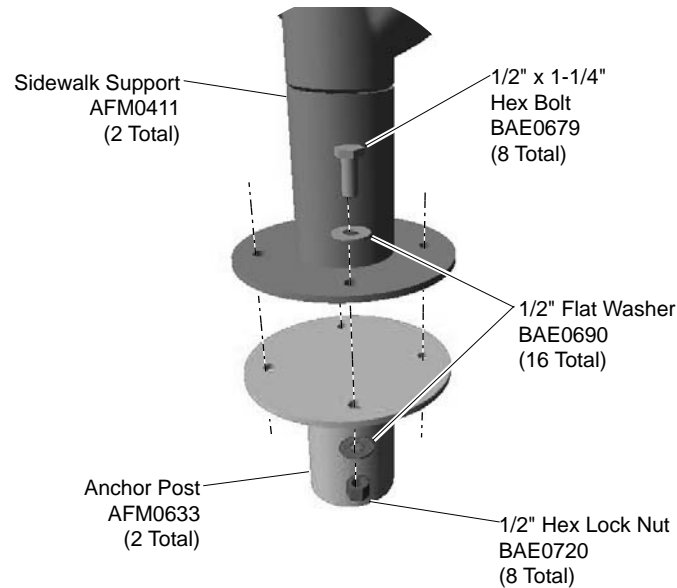
FOOTING NOTES

- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in Handbook for Public Playground Safety published by U. S. Consumer Product Safety Commission.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

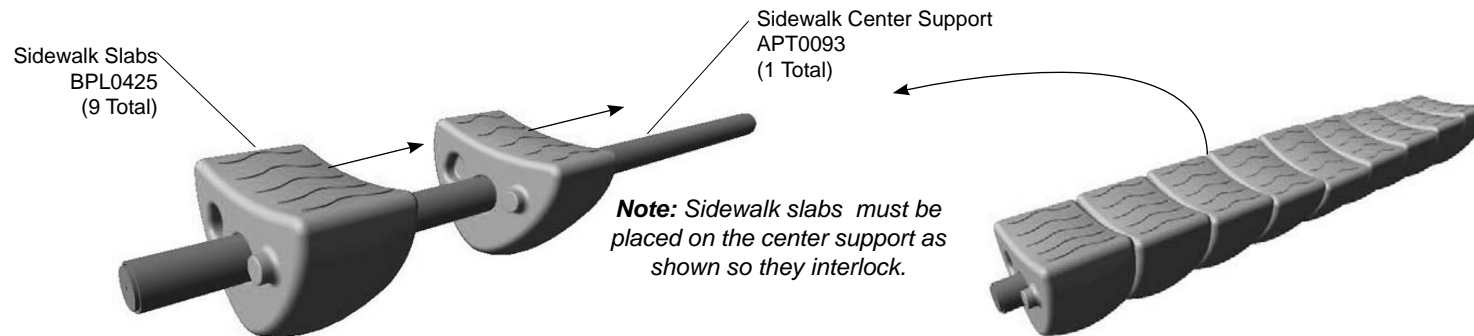
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



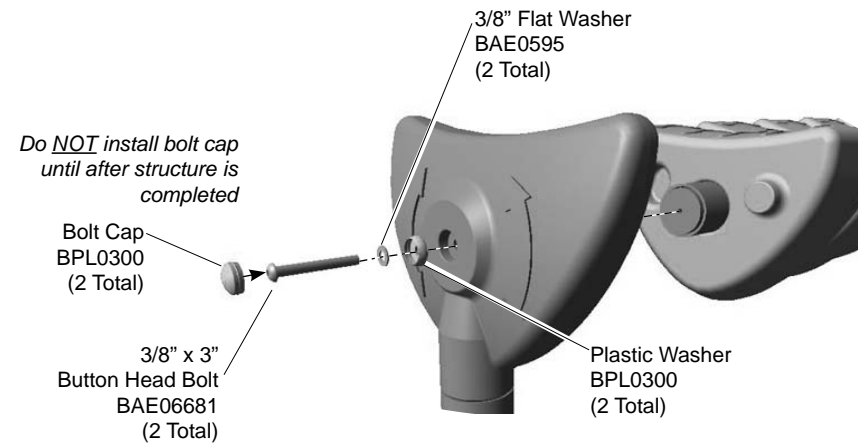
Detail A Step 4

Attach the anchor posts to the sidewalk supports.



Detail B Step 5

Place the sidewalk slabs on the center support.



Detail C Step 6



Attach the sidewalk supports to the center support.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare the footings as shown in the **Support Post or Surface Mount Footing Details** on **pages 4 and 5** of this document.

Step 4: Attach the anchor posts to the sidewalk supports. See **Detail A**. Position each anchor posts against the bottom of a sidewalk supports and attach as shown.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Place the sidewalk slabs on the center support. See **Detail B**. Place and center the sidewalk slabs on the center support as shown so they interlock.

Step 6: Attach the sidewalk supports to the center support. See **Detail C**. Position a sidewalk assembly against each end of the center support and attach as shown. Place the sidewalk in or on the footings.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 8: Select plastic bolt caps and press into the plastic washers. See **Detail C**. The bolt caps install more easily when they are warm.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

UN7100 - SIDEWALK

PART NO.	DESCRIPTION	QTY.
AFM0411	CONNECTOR - SIDEWALK SUPPORT	2
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA PLATE	2
APT0093	BEAM - 3.00" O.D. x 96.00" WITH END PLATES	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	2
BAE0679	BOLT - 1/2"-13 x 1-1/4" HEX HEAD	8
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	16
BAE0720	NUT - 1/2"-13 LOCK	8
BPL0300	CAP - 3/8" BOLT	2
BPL4025	MISC - SIDEWALK SLAB	9
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

UN7100S - SURFACE MOUNT SIDEWALK

PART NO.	DESCRIPTION	QTY.
AFM0411	CONNECTOR - SIDEWALK SUPPORT	2
APT0093	BEAM - 3.00" O.D. x 96.00" WITH END PLATES	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	2
BPL0300	CAP - 3/8" BOLT	2
BPL4025	MISC - SIDEWALK SLAB	9
ALB0025	LABEL - AGE APPROPRIATE SHEET	1


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Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Universal

Models UN7100 and UN7100S

Sidewalk

In-Ground and Surface Mount



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ***... for Safety's Sake!***

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

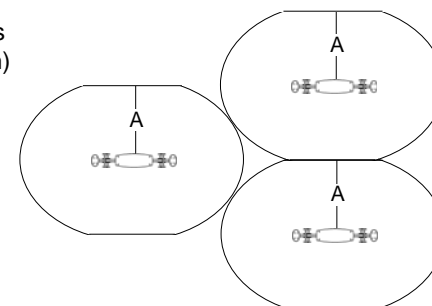
Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 84 inches (2134 mm). This use zone may not be overlapped by the use zones of adjacent play equipment. See diagram.
- **CSA compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 2100 mm. This use zone may not be overlapped by the use zones of adjacent play equipment. See diagram.
- **EN Compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 1500 mm.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

Rocking/Springing Equipment
Intended for Standing Use Zones
A = ASTM: 84 in. (2134 mm)
CSA: 2100 mm
EN: 1500 mm



Placement of multiple rocking springing equipment intended for standing

- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

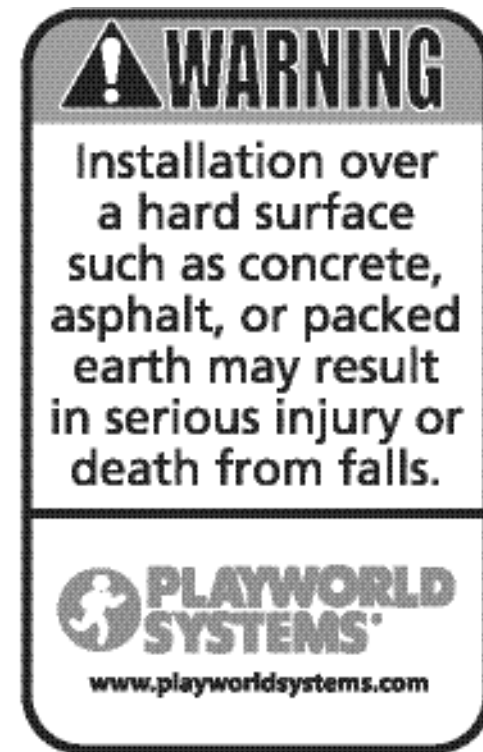
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable specifications in your area appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



Assembly View

Installation Instructions

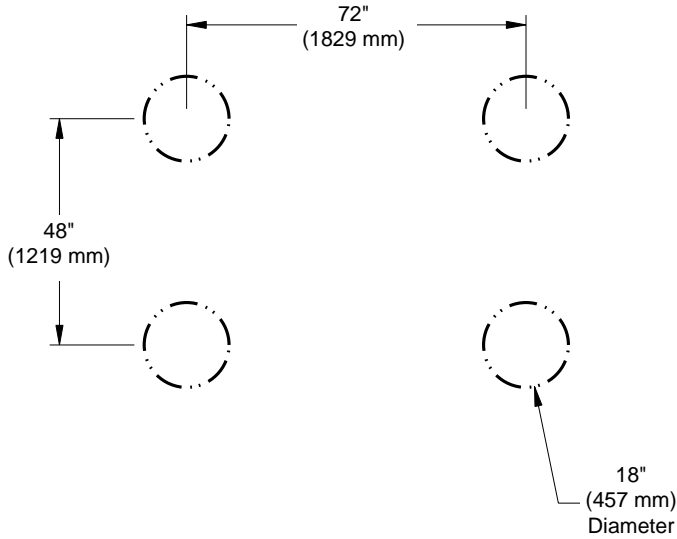
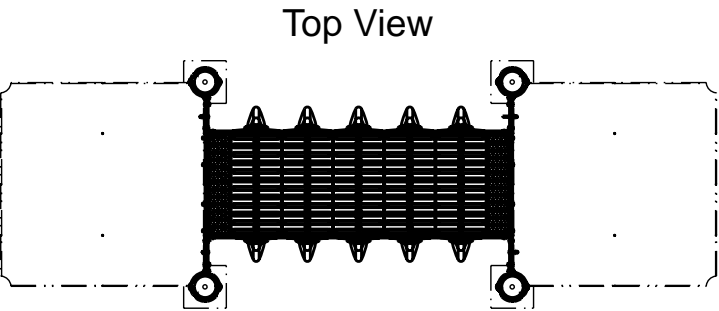
Playmakers® Model PM6478
6 ft. (1829 mm) Crazy Bones Bridge
w/ 1 ft. (305 mm) Rise

Installation Preparation

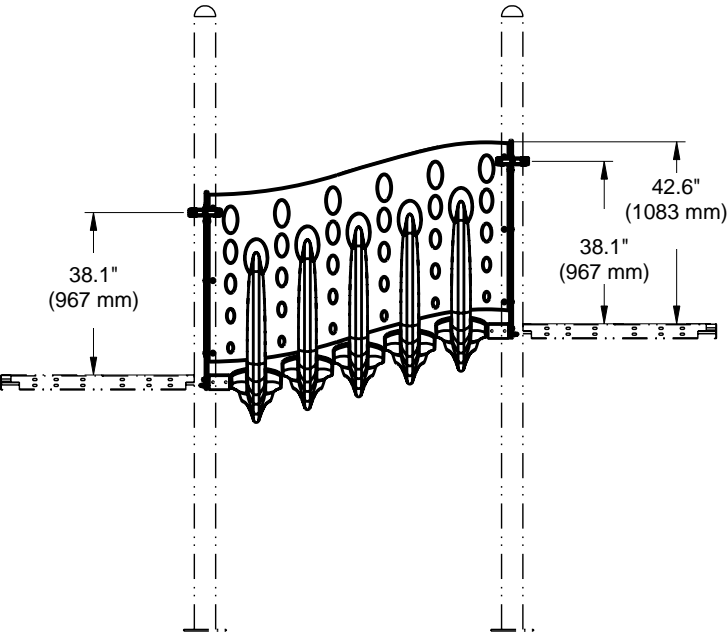
Recommended Crew: Three (3) adults
Installation Time: 4 man-hours
Weight: 327.3 Lbs. (148,8 Kilos)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

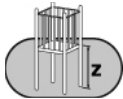
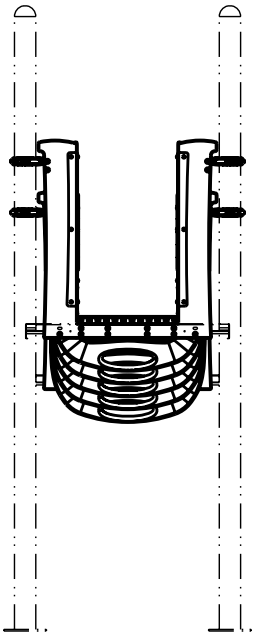
Installation Instructions



Footing Diagram



Elevation View

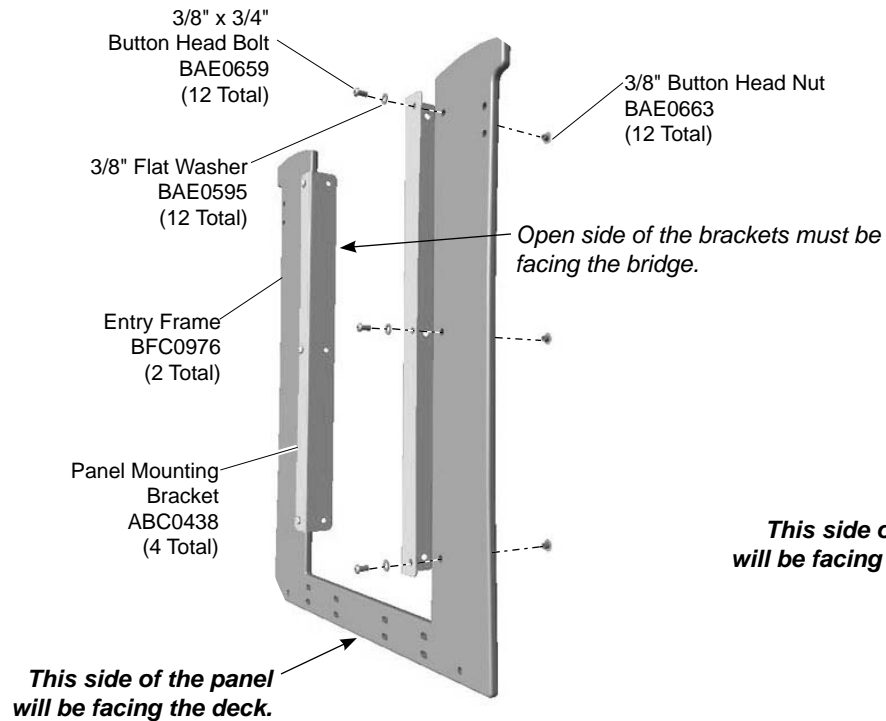


Height of Deck
+ 967 mm



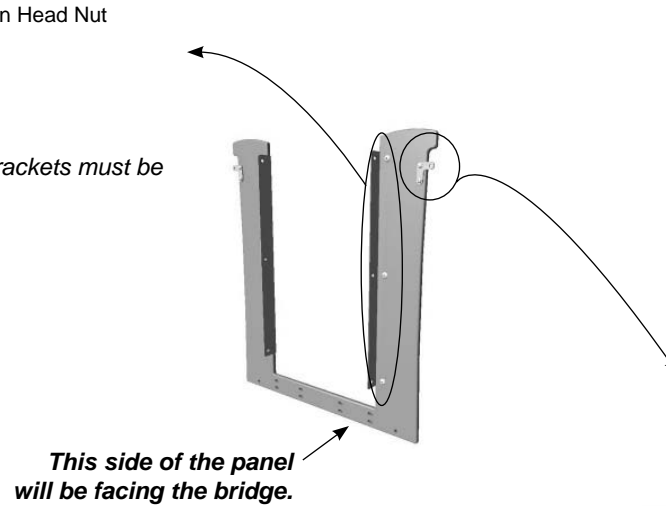
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4

Attach the panel mounting brackets to the entry frames.

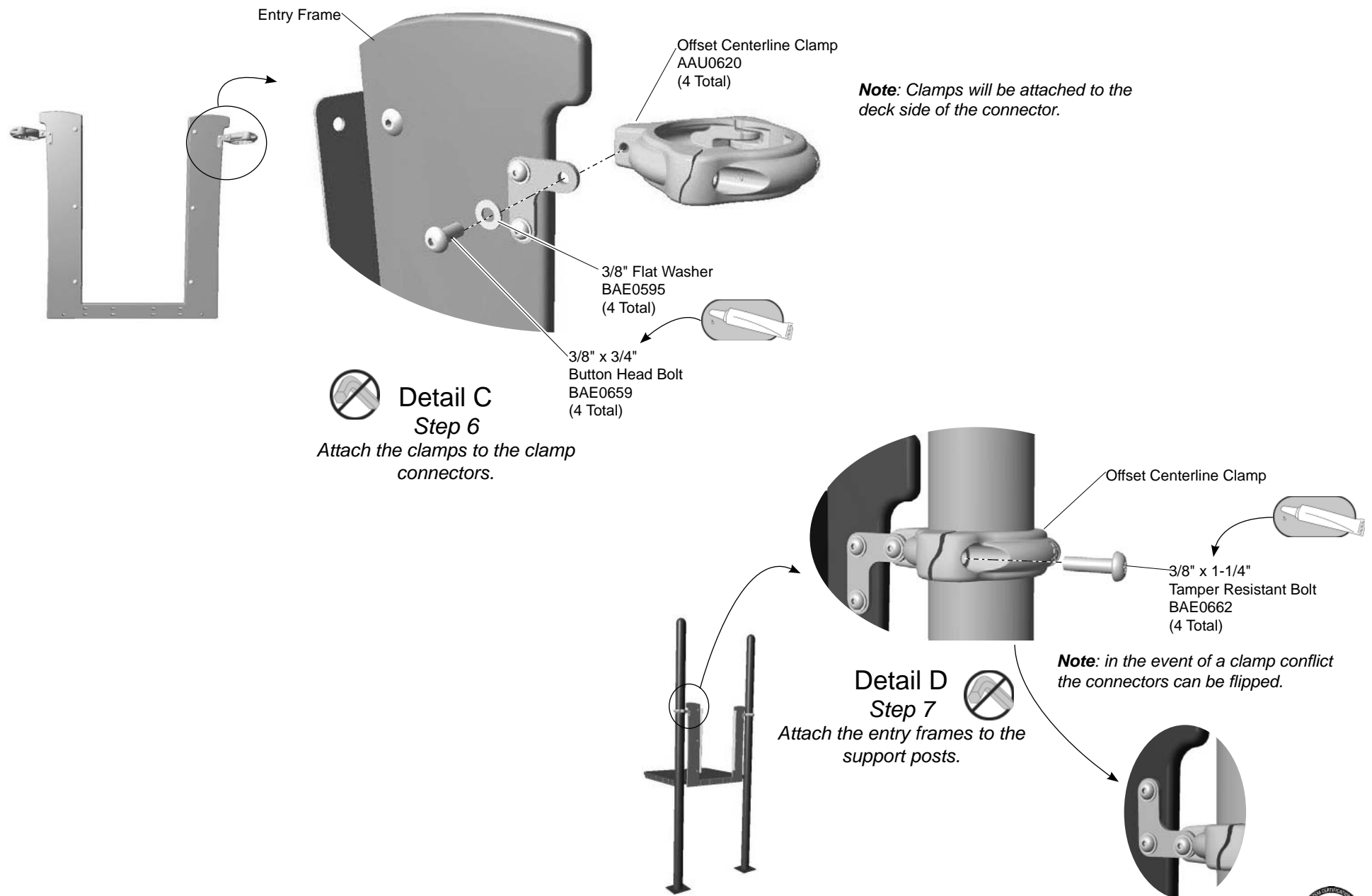


Detail B
Step 5

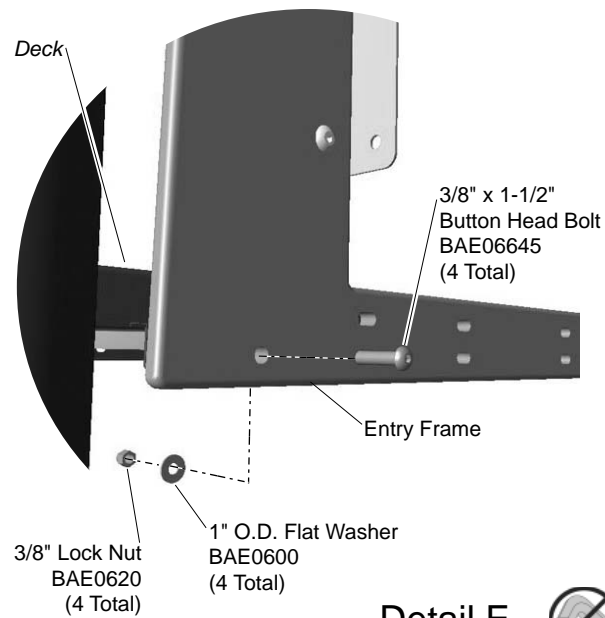
Attach the clamp connectors to the **bridge side** of the entry frames.



Installation Instructions

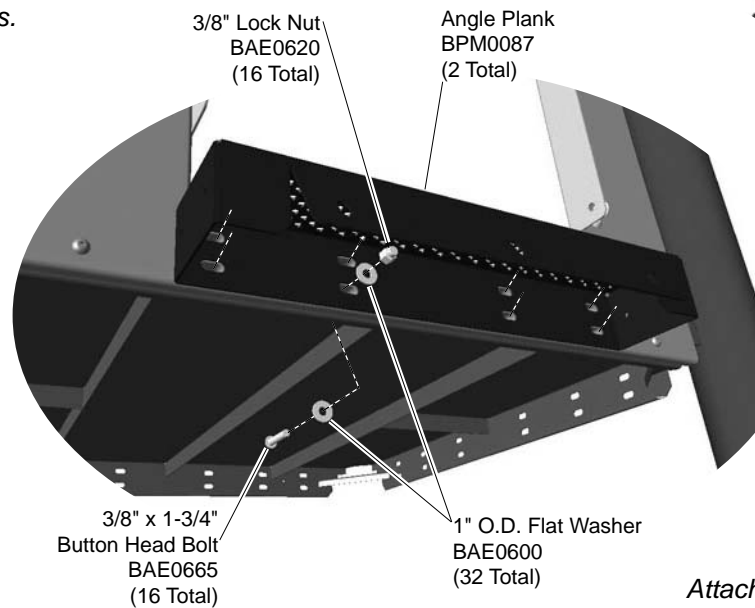


Installation Instructions



Detail E Step 8

Attach the entry frames to the decks.

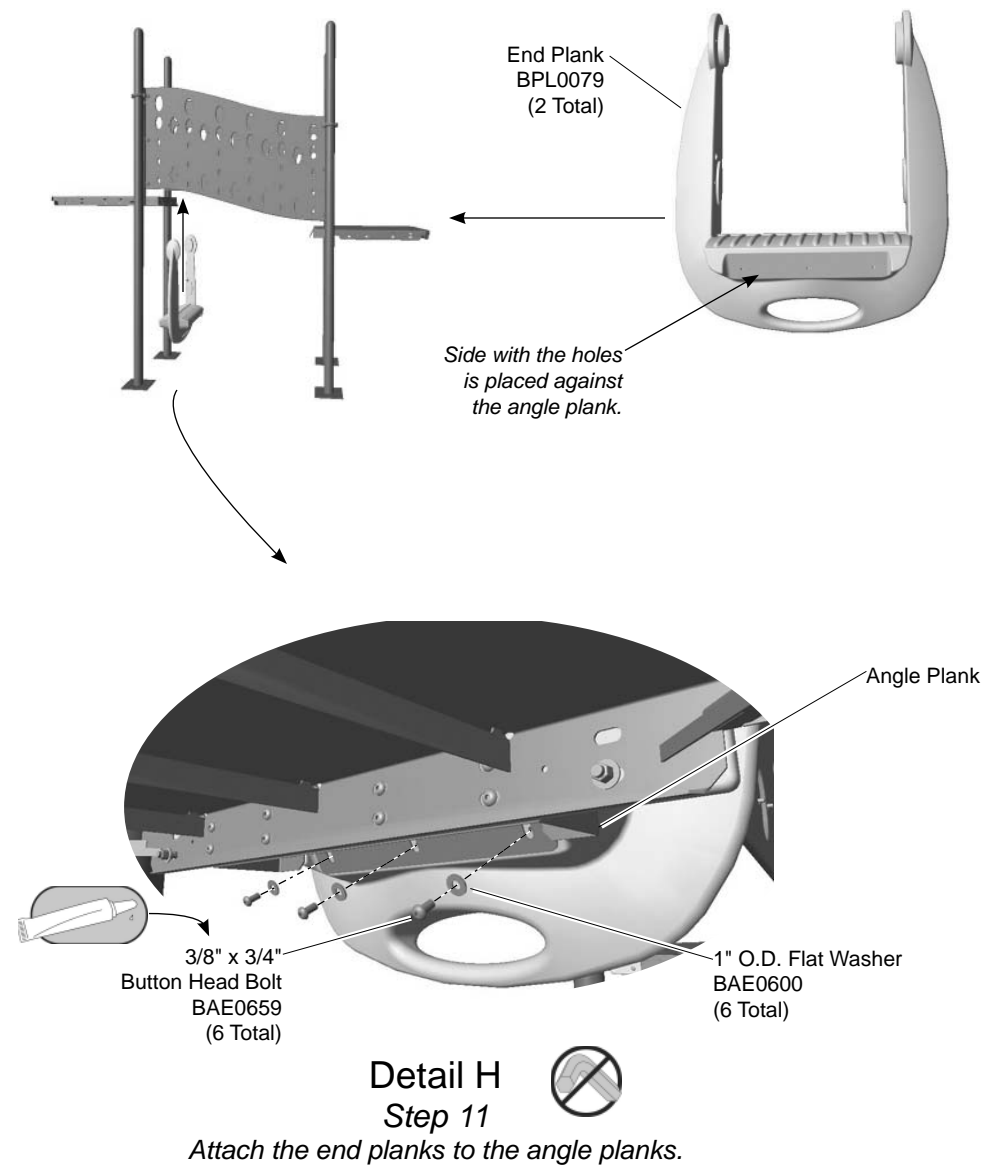
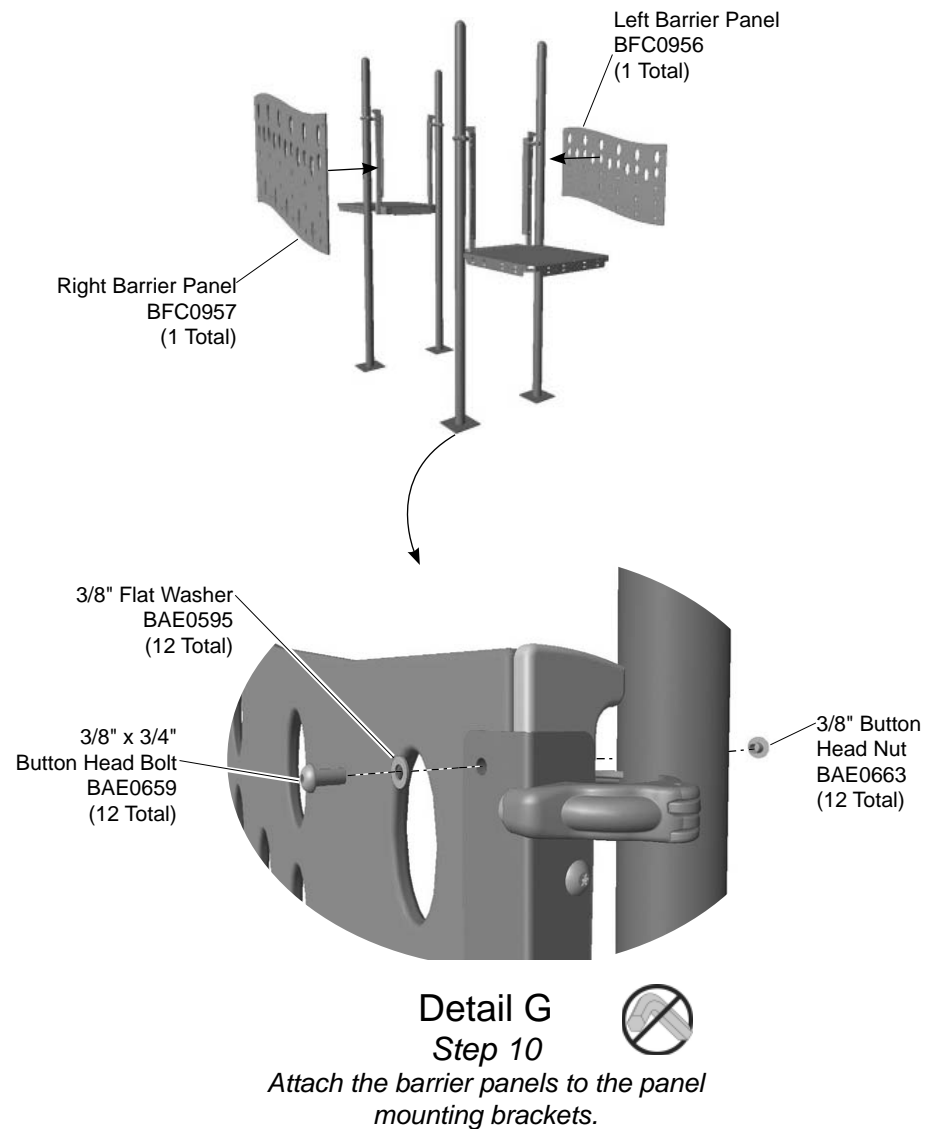


Detail F Step 9

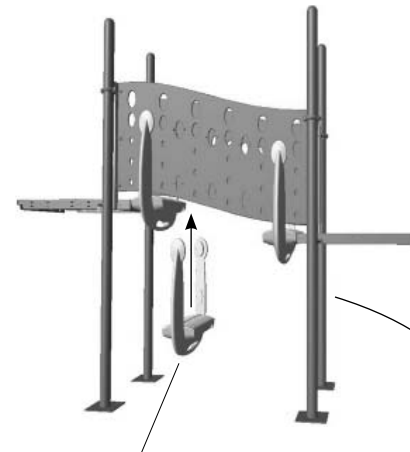
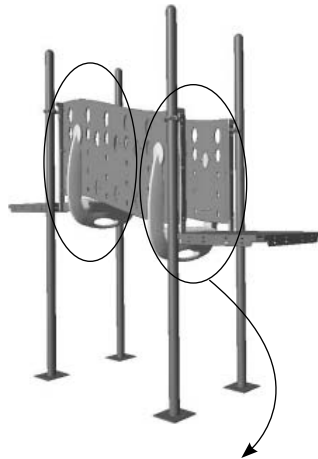
Attach the angle planks to the entry frames and decks.



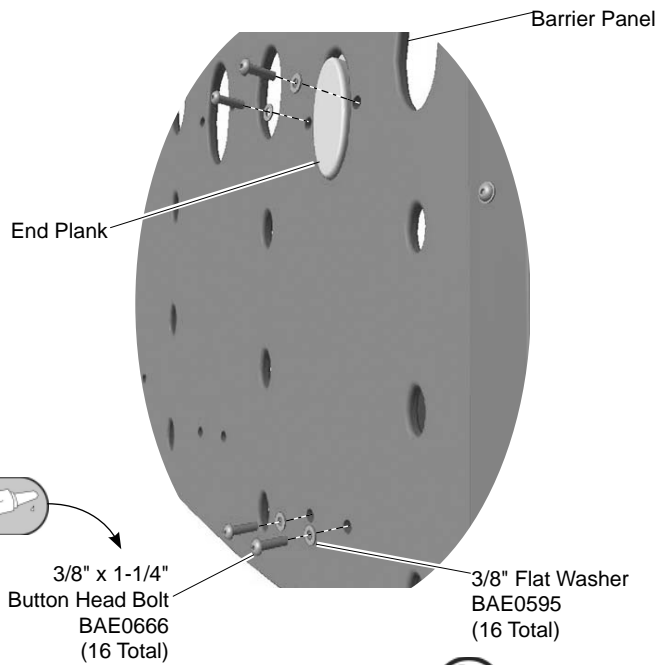
Installation Instructions



Installation Instructions

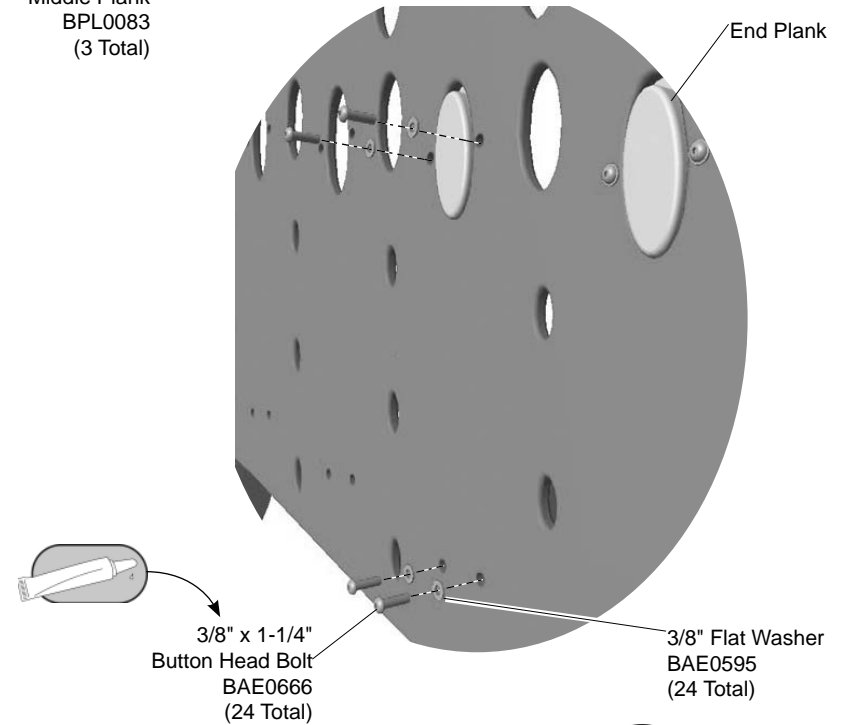


Middle Plank
BPL0083
(3 Total)



Detail I
Step 12

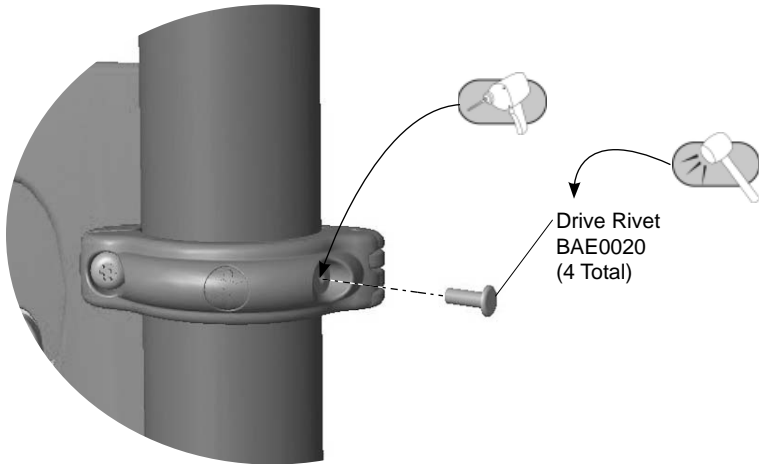
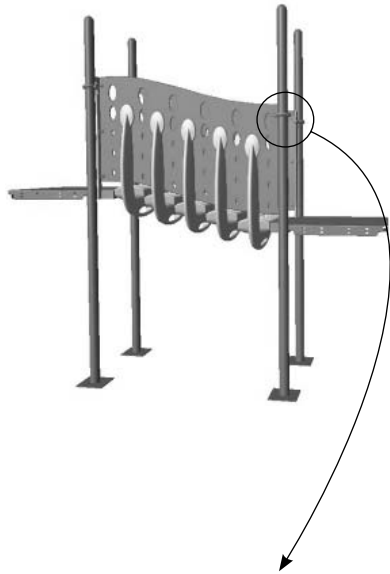
Attach the end planks to the barrier panels.



Detail J
Step 13

Attach the middle planks to the barrier panels.

Installation Instructions



Detail K
Step 15

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine the placement of the bridge by referring to the master structure drawing. **Important Note:** Two of the bridge planks contain threaded inserts across one side on the bottom. These are the end planks used for attaching the bridge to a deck. Lay out all the planks on the ground before starting construction, in the order desired with an end plank on each end.

Step 4: Attach the panel mounting brackets to the entry frames. See **Detail A**. Place the side of the brackets against the deck side of the entry frame and attach as shown. The angled part of the bracket should be on the inside.

Step 5: Attach the clamp connectors to the entry frames. See **Detail B**. Position the long leg of each connector aligned with the *top two* holes on the bridge side of the entry frame and attach as shown.

Step 6: Attach the clamps to the connectors. See **Detail C**. Position the flat side of each clamp against the deck side of each connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 7: Attach the entry frames to the support posts. See **Detail D**. Position the bracket side of the frame against a deck, and close the clamps around the posts. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Note: In the event of a clamp conflict the connectors can be flipped as indicated.

Step 8: Attach the entry frames to the decks. See **Detail E**. Align the bottom outside hole on each side of the panel with the bottom outside holes in the deck and attach as shown.

Step 9: Attach the angle planks to the entry frame and deck. See **Detail F**. Align the flat side of each angle plank with the holes in the entry frame and deck. From under the deck, attach through both the *top* and *bottom* holes in the deck as shown.

Note: The top of the plank and frame should not be protruding above the surface of the deck.

Step 10: Attach the barrier panels to the panel mounting brackets. See **Detail G**. Using adequate manpower, lift each barrier into place between the decks and against the mounting bracket on the entry frame. Panels must be flush with the bracket. Align the holes, and attach as shown.

Note: The side of the panels with the indented ovals at the bottom must face out.

Step 11: Attach the end planks to the angle planks. See **Detail H**. Position the side of each end plank containing the threaded inserts, against an angle plank and align the holes. *The ovals on the inside of each plank arm will fit into the ovals on the outside of the panels.* Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Note: *Leave all the connections loose until all the planks have been attached to the panels.*

Step 12: Attach the end planks to the barrier panels. See **Detail I**. Fit the ovals on the plank arms into the ovals on the outside of the barrier panels. Align the holes in the panels and each plank arm. There are (4) connections on each side. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 13: Attach the middle planks to the panels. See **Detail J**. Position a middle plank against the end plank with the plank arms fitting into the ovals on the barrier panels. Align the holes in the panels and each plank arm. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Repeat for the remaining middle planks.

Final Details.

Step 14: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Installation Instructions

Step 15: Install drive rivets. See **Detail K**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 16: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

PM6478 - 6 ft. (1829 mm) CRAZY BONES BRIDGE W/ 1 ft. (305 mm) RISE

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
ABC0438	BRACKET - 2.87" x 2.64" x 36.00"	4
APL0599	PLATE - 2.63" x 3.00" x 8 GA w/HOLES	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	76
BAE0600	WASHER - 1" O.D. FLAT	42
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	34
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	32
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	16
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	40
BFC0956	SHEET - .75" x 70.50" x 51.64" LEFT	1
BFC0957	SHEET - .75" x 70.50" x 51.64" RIGHT	1
BFC0976	SHEET - .75" x 46.50" x 42.00"	2
BPL0079	PLANK - 11.99" x 36.21" x 43.08" w/ 11 INSERTS	2
BPL0083	PLANK - 11.99" x 36.21" x 43.08" w/ 8 INSERTS	3
BPM0087	PLANK - 24.88" x 6.59" x 3.78"	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View

Installation Instructions
Playmakers® Model PM6590
6 ft. (1829 mm) Arch Bridge

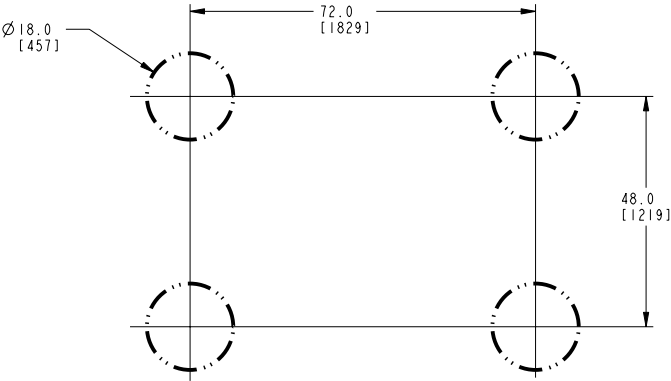
Installation Preparation

- Recommended Crew: Four (4) adults
Installation Time: 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

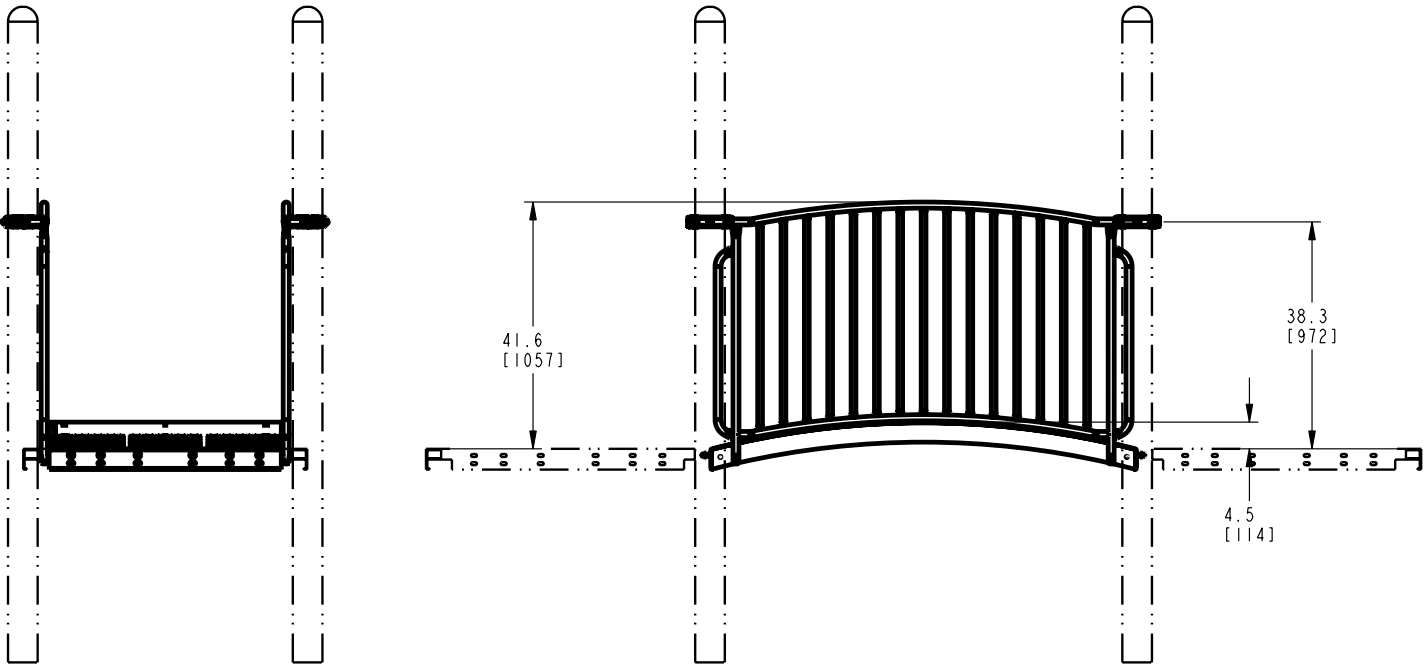
ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions

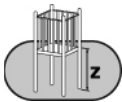
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View

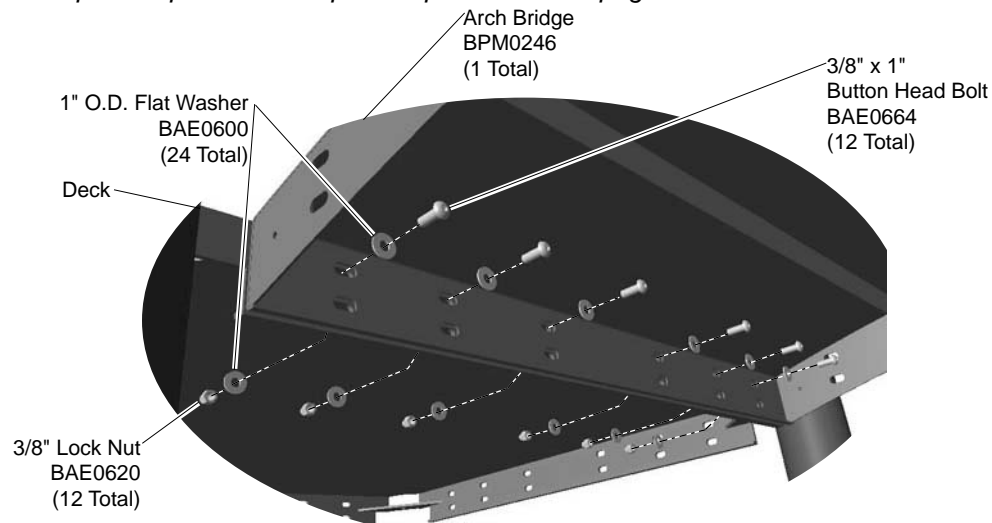


Height of the deck plus
8.5" (215 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



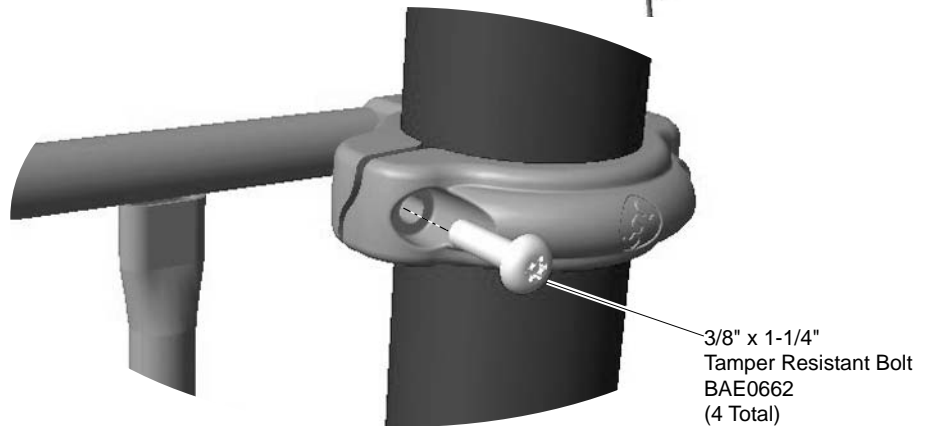
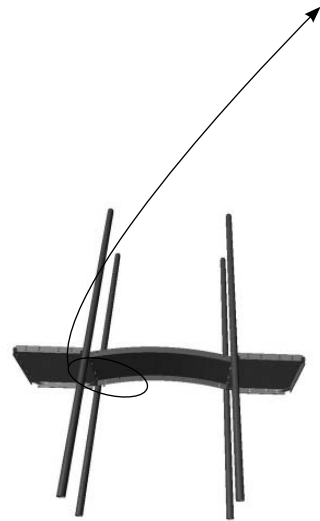
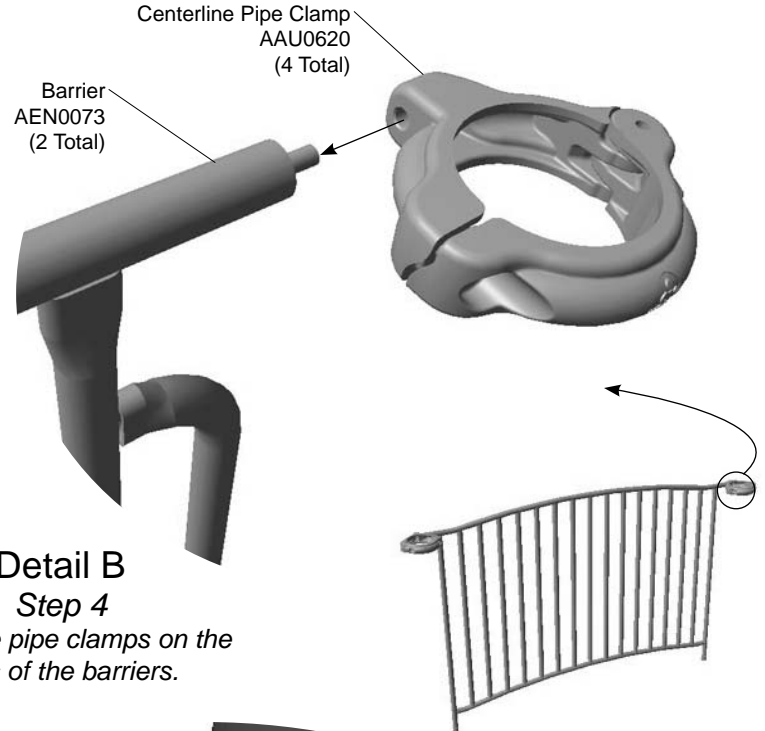
Detail A
Step 3

Attach the bridge section to the decks.



Detail B
Step 4

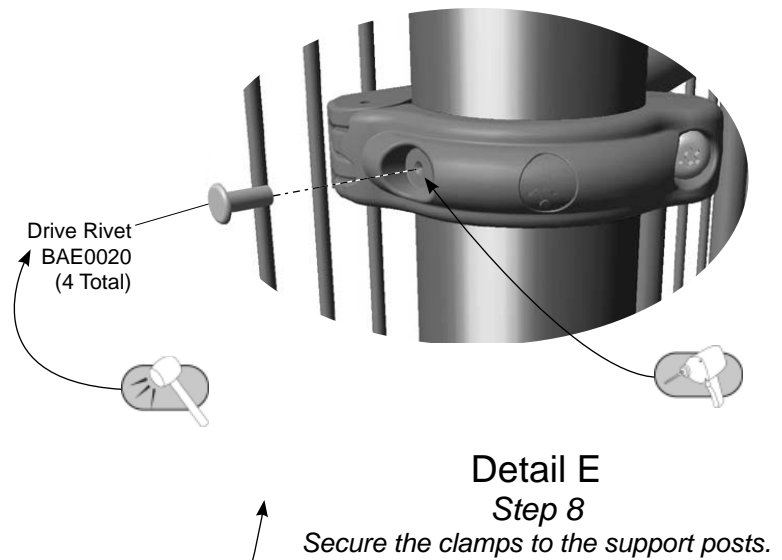
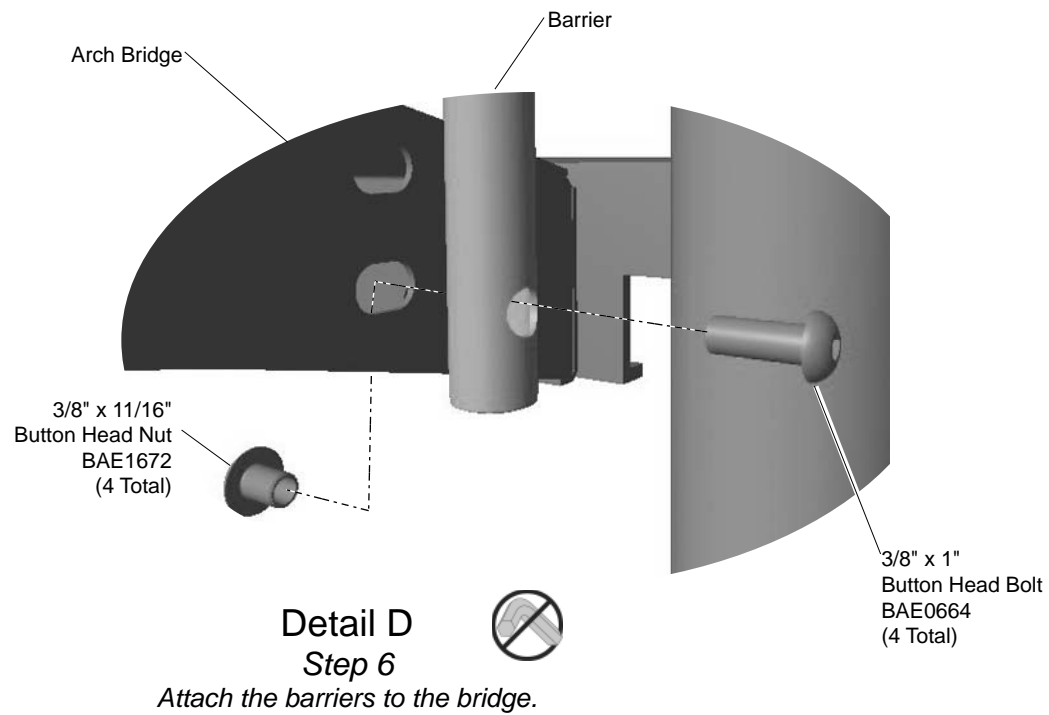
Place the pipe clamps on the ends of the barriers.



Detail C
Step 5

Attach the barriers to the support posts.

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the arch bridge to the decks. See **Detail A**. Due to the weight of the bridge, a minimum of three average size adults are necessary to position the bridge section between the decks. Position the bridge against the decks and attach as shown. Make the connections using the **top holes**. Leave the connections loose.

Step 4: Attach the clamps to arch bridge barrier. See **Detail B**. Thread a clamp onto each threaded stud of the arch bridge barriers. Position the clamps to the inside of each barrier.

Step 5: Attach arch bridge barrier to support posts. See **Detail C**. Lift a barrier with clamps into position. Secure the clamps to the support post as shown. Do not fully tighten bolt due to allow adjustment.

Step 6: Attach arch bridge barrier to arch bridge. See **Detail D**. Position the barrier against the side of the bridge. Attach as shown.

Note: There are upper and lower holes along the side of the arch bridge for barrier attachment, choose which hole will accommodate the position of the clamps at the posts to avoid adjacent component clamp interference.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each pipe clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM6590 - 6 ft. (1829 mm) ARCH BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AEN0073	BARRIER - 6' ARCH BRIDGE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK W/ NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE1672	NUT - 3/8-16 x 11/16" BUTTON HEAD	4
BPM0246	ARCH- 71.75" x 8" x 39.13" x 8.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View

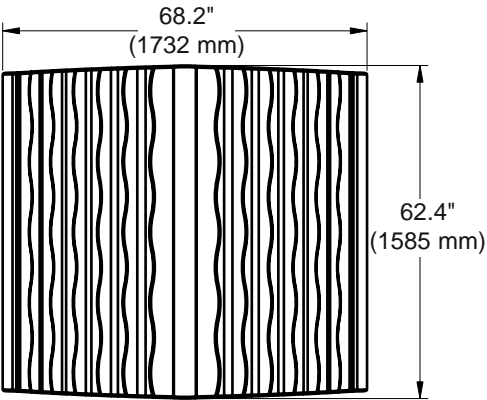
Installation Instructions
Playmakers®
Model PM9846
Cabana Roof

Installation Preparation

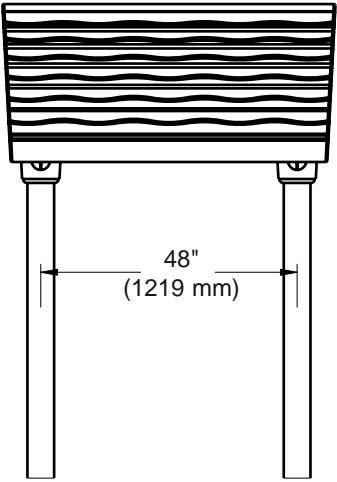
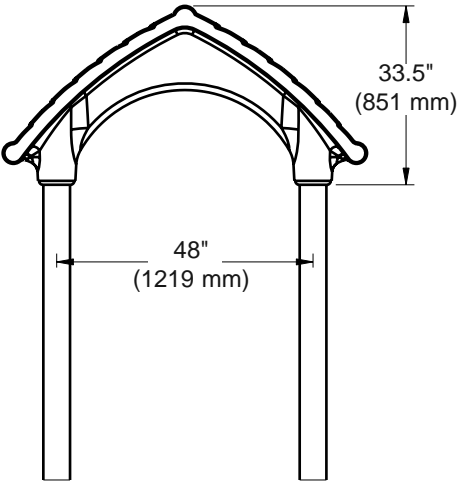
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 123 lbs. (55,9 kg)

ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions



Top View



Elevation Views
ZZPM9846

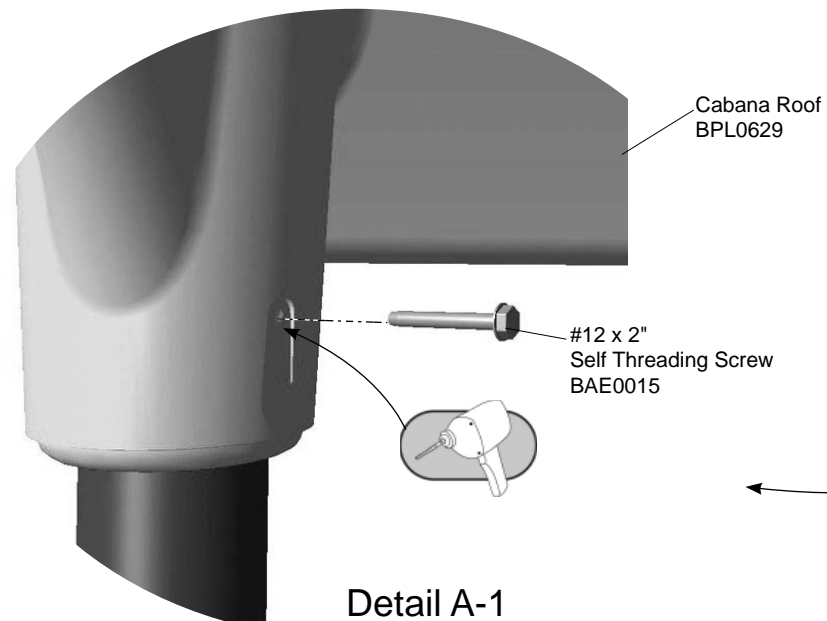


Installation Instructions

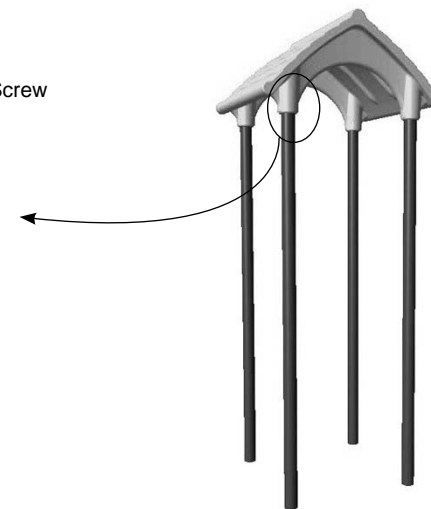
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1
Step 3



Detail A-1
Step 3



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1

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Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment must be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

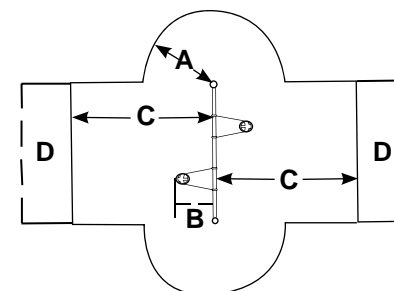
(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

GUIDELINES

Infant Seat Swing Zones (ASTM/CSA)

- A** = Side Use Zone
72 in. (1829 mm)
- B** = Distance from Pivot Point to Swing Seat Surface
- C** = End Use Zone: $B \times 2$
Both Sides of Top Rail
- D** = No-encroachment Zone
72 in. (1829 mm)

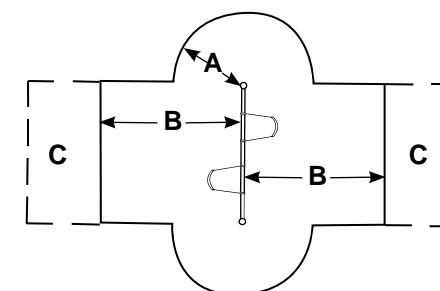


- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

(ASTM/CSA)

Belt/Rigid Seat Swing Zones

- A** = Side Use Zone
72 in. (1829 mm)
- B** = End Use Zone
Height of Pivot Point from Surfacing x 2
Both Sides of Top Rail
- C** = No-encroachment Zone
72 in. (1829 mm)



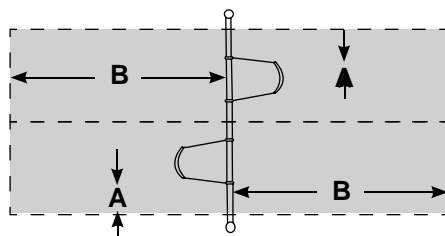
- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = (0.867 x Distance from pivot point to seat) + either 1750 mm if unitary surfacing or 2250 mm if loose-fill surfacing is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

A = Width of the corridor centered on the swing seat
1750 mm

B = Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, [A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment](#). Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

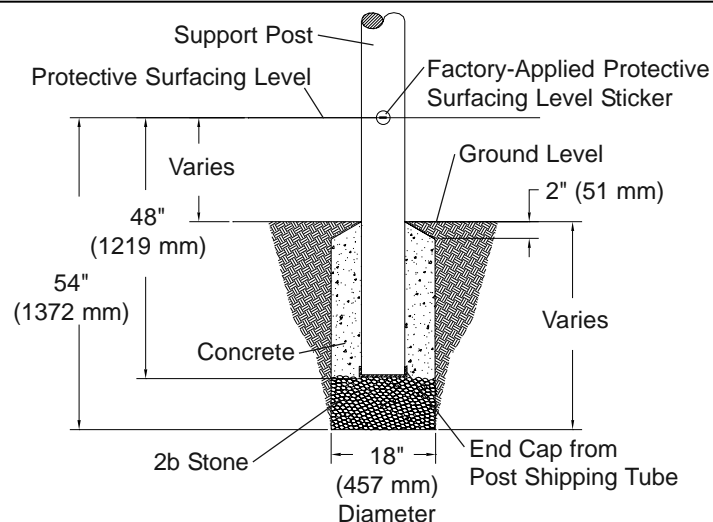
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

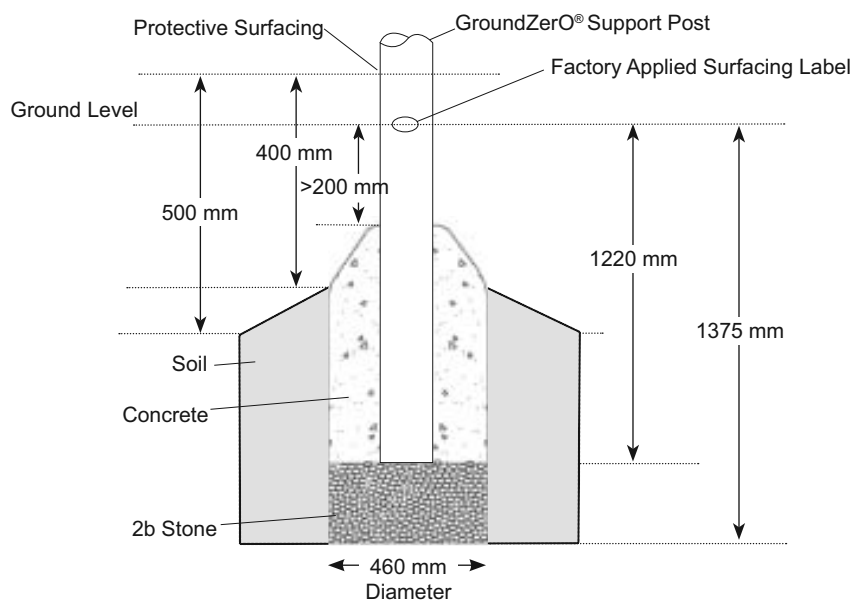
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail GroundZero® Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 54 in. (1375 mm) less the depth of the protective surfacing material. The post is designed to have 36" (915 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 42 in. (1070 mm) with 6 in. (150 mm) of packed stone.
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Assembly View (representative model)

Installation Instructions

Playworld Systems® Model XX0295




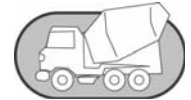



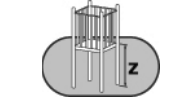
Single Post Swing Assembly

8 ft. (2438 mm)

Installation Preparation

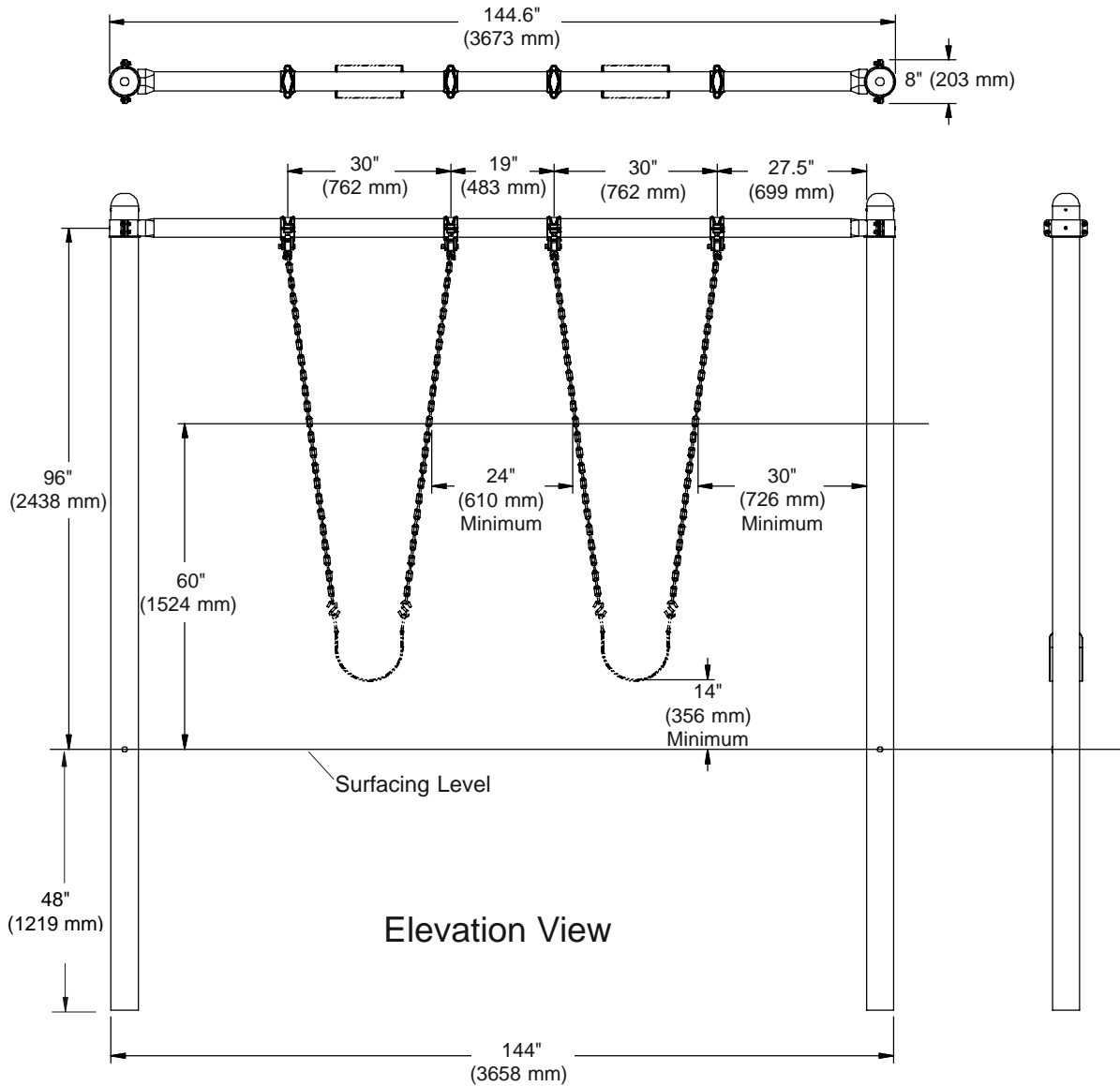
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 264.6 Lbs. (120,3 Kilos)
 Concrete Required: 0.36 cubic yard (0,28 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

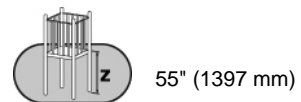
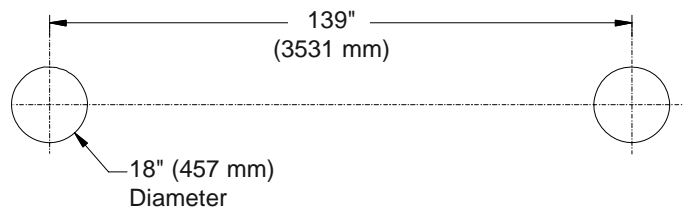
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View

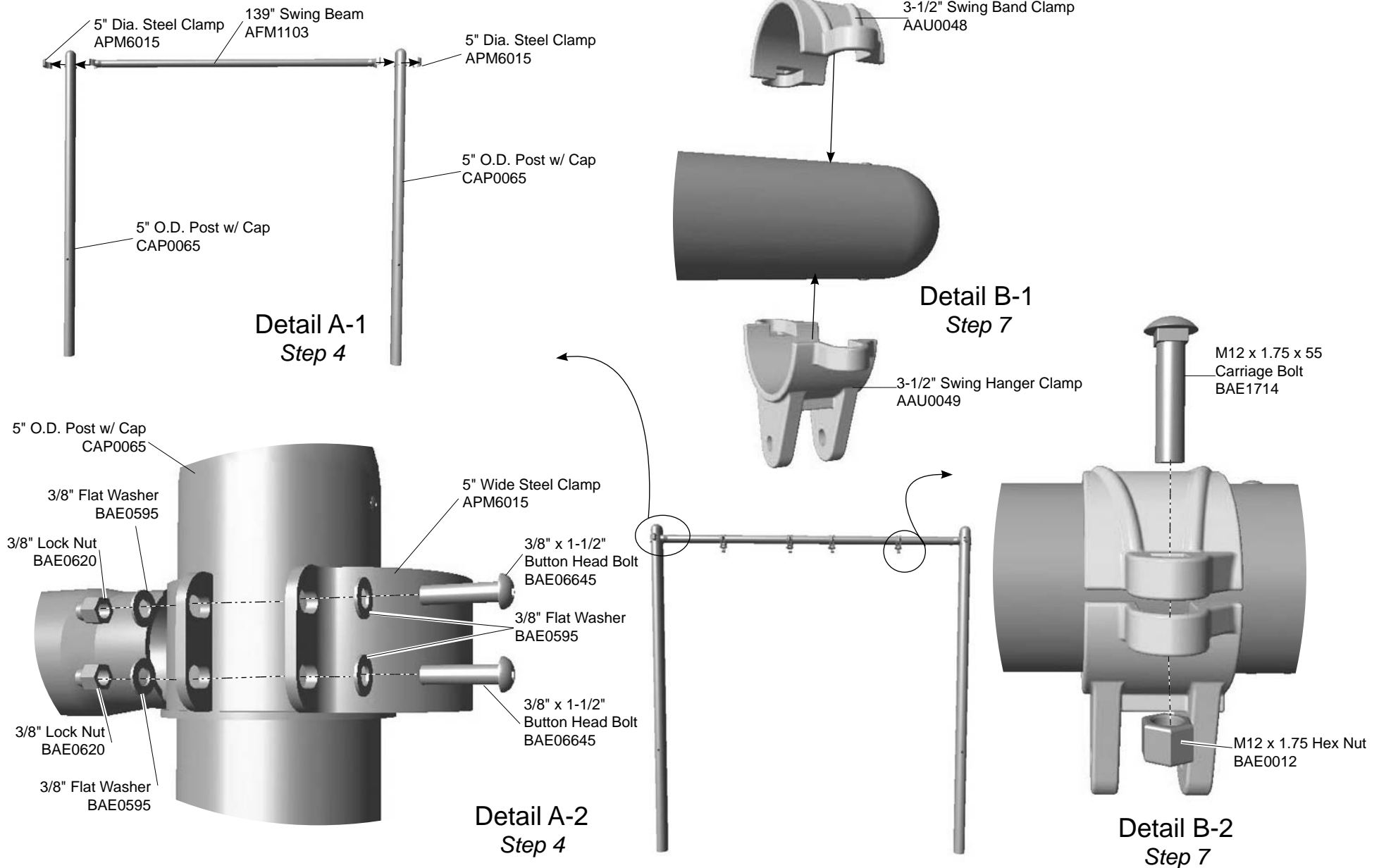


Footing Diagram

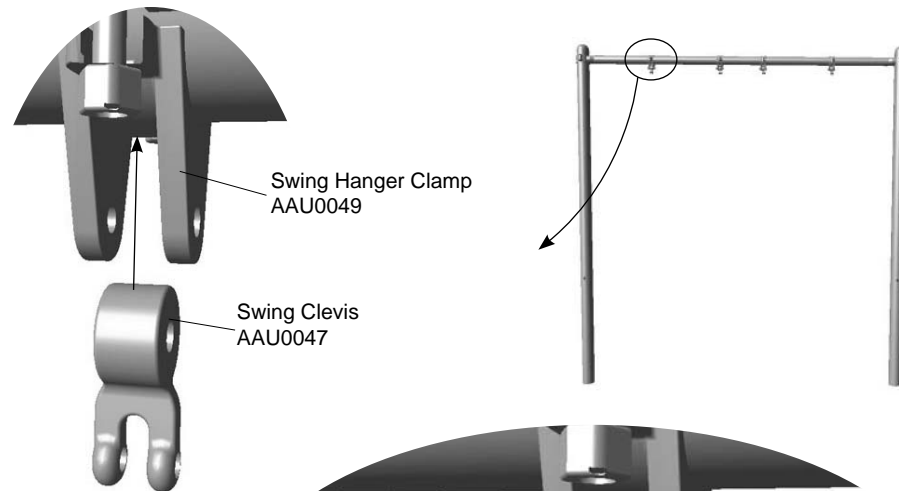


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Detail C-1
Step 8

M12 x 1.75 Hex Bolt
BAE0009

Swing Clevis
AAU0047

M12 x 1.75 Hex Nut
BAE0012



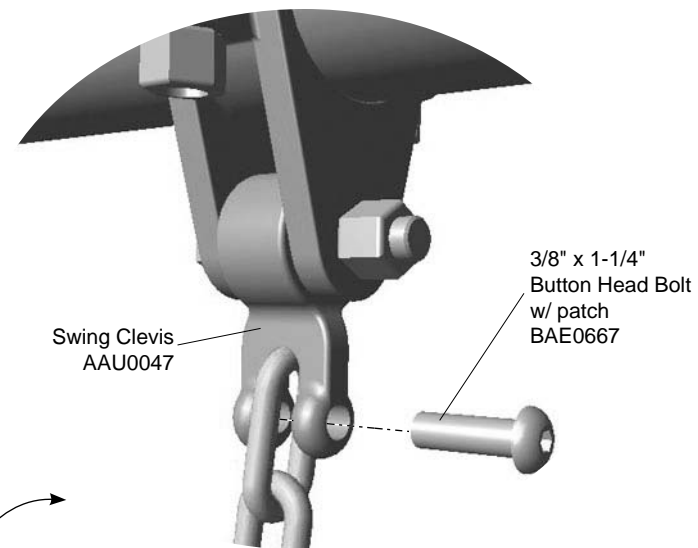
Detail C-2
Step 8

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

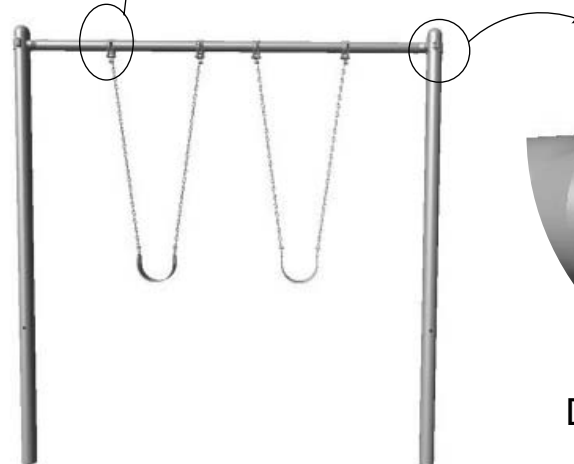
Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



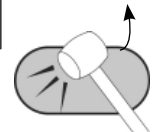
Detail D
Step 9

5" O.D. Post w/ Cap
CAP0065



Detail E
Step 11

Drive Rivet
BAE0020



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details** in on **Page 4** of this document.

Attach the top rail to the support posts.

Step 4: Attach the top rail to the support posts. See **Details A-1 and A-2**. Select the 3-1/2" top rail with clamps, (2) two 5" support posts, (2) two 5" wide clamps and the appropriate hardware. There are (8) eight connections. Place the parts on the ground for assembly. Position the top rail band resting on the welded ring on each post. Turn the support posts so that the Surfacing Warning Labels are facing out and in opposite directions. Sandwich each support post between the top rail and a wide clamp. Attach as shown. Start all bolts before tightening any. Tighten the connections evenly. There should be a uniform gap on both sides.

Important Note: The top rail clamps must be placed on top of the welded ring.

Step 5: Place the swing assembly into the excavated footings. Plumb and level the entire component. Tighten all fasteners. Fully tighten all fasteners according to tightening torque specifications. See **Step 10** of these instructions. Block and brace for concrete. Pour concrete after all equipment has been assembled. Fill the footings to within 2 inches (51 mm) of ground level as show in Footing Detail. Allow concrete to cure for 72 hours before proceeding with Step 6.

Step 6: After concrete has completely hardened, fill remainder of footing with dirt. Add protective surfacing material in accordance with the first page of these instructions.

Attach the swing hangers to the top rail.

Step 7: Attach the swing hangers to the top rail. See **Detail B-1 and B-2**. Select (4) four swing clamp bands, (4) four swing hangers, and the appropriate hardware. There are (8) eight connections. Sandwich the top rail with a swing clamp band and a swing hanger and align the holes. Attach as shown. Ensure the hangers are properly spaced and positioned on top rail (See **Elevation View**). Secure by carefully tightening each hex nut evenly. Extreme care must be taken that the nuts on the swing hangers are drawn up evenly. Do not overtighten or exceed 25 ft lbs (33.9 Nm) of torque on the connections. A uniform gap should be present between the band and bottom hanger.

Note: Please read **CAUTION** on page 8.

Step 8: Attach each clevis to a swing hanger. See **Detail C-1 and C-2**. Select (4) four clevises and the appropriate hardware. There are (4) four connections. Position each clevis between flanges of a bottom swing hanger. The swing hanger has a threaded and a non-threaded flange. Insert an M12 hex head bolt through the non-threaded swing hanger flange, the swing clevis, and thread through the opposite flange. Snug tighten. Thread a M12 hex nut onto the exposed bolt threads and fully tighten according to the tightening torque specifications in **Step 10**.

Step 9: Thread a bolt into the swing clevis. See **Detail D**. Select the appropriate hardware. There are (4) four connections. The clevis has a threaded and non-threaded side. Insert the bolt through the non-threaded side and thread into the other side of the clevis.

Note: The bolt will need to be removed to insert the chain for the swing seat.

Final Details

Step 10: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

__**Step 11:** Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

__**Step 12:** See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

__**Step 13:** Apply the Surfacing Warning labels to upper side corners at places shown on the **Elevation View**.

__**Step 14:** For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

ZZXX0295 - 8 FT. (2438 mm) SINGLE POST SWING ASSEMBLY

PART NO.	DESCRIPTION	QTY.
AAU0047	CONNECTOR - SWING CLEVIS	4
AAU0048	CLAMP - 3-1/2" SWING BAND	4
AAU0049	CLAMP - 3-1/2" SWING HANGER	4
AFM1103	BEAM - 3-1/2" O.D. x 139" SWING	1
APM6015	CLAMP - 5" DIA. x 3" WIDE STEEL	2
BAE0009	BOLT - M12 x 1.75 HEX HEAD	4
BAE1714	BOLT - M12 x 1.75 x 55 CARRIAGE	8
BAE0012	NUT - M12 x 1.75 HEX	12
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	4
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	8
CAP0065	POST - 5" O.D. x 148" w/CAP	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

Note: Seat assemblies sold separately.

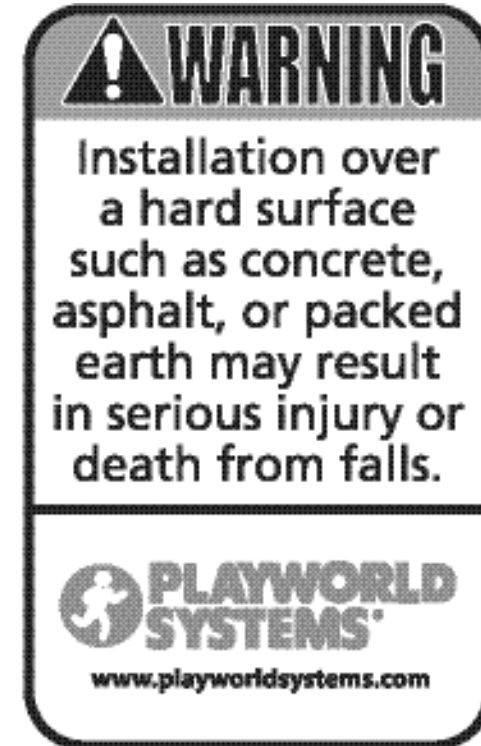

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Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Clamps

- Inspect clamps to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect clamps for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

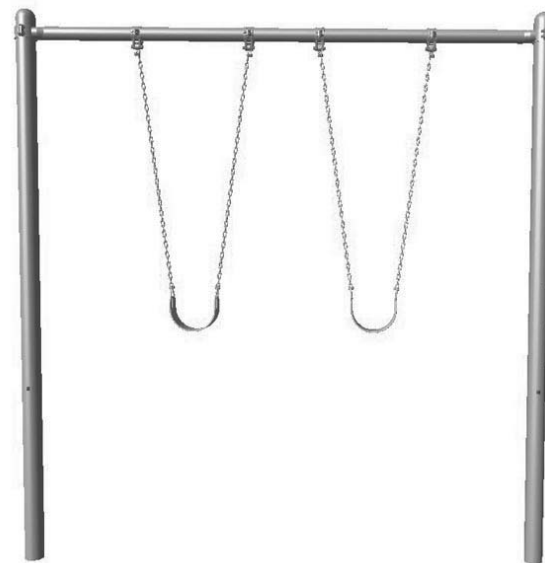
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Warning!
Exceeding 25 ft lbs of torque
on the swing hanger bolts may
cause damage to the swing band.

Equipment Maintenance Playworld Systems® Model XX0295 Single Post Swing Assembly 8 ft. (2438 mm)



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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect clamps for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions



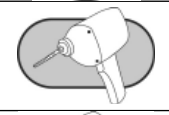
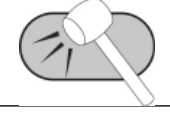

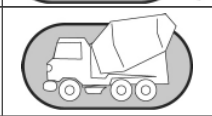

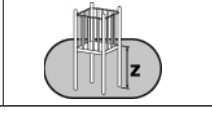
Playworld Systems®

Models XX0260, XX0261, & XX0324

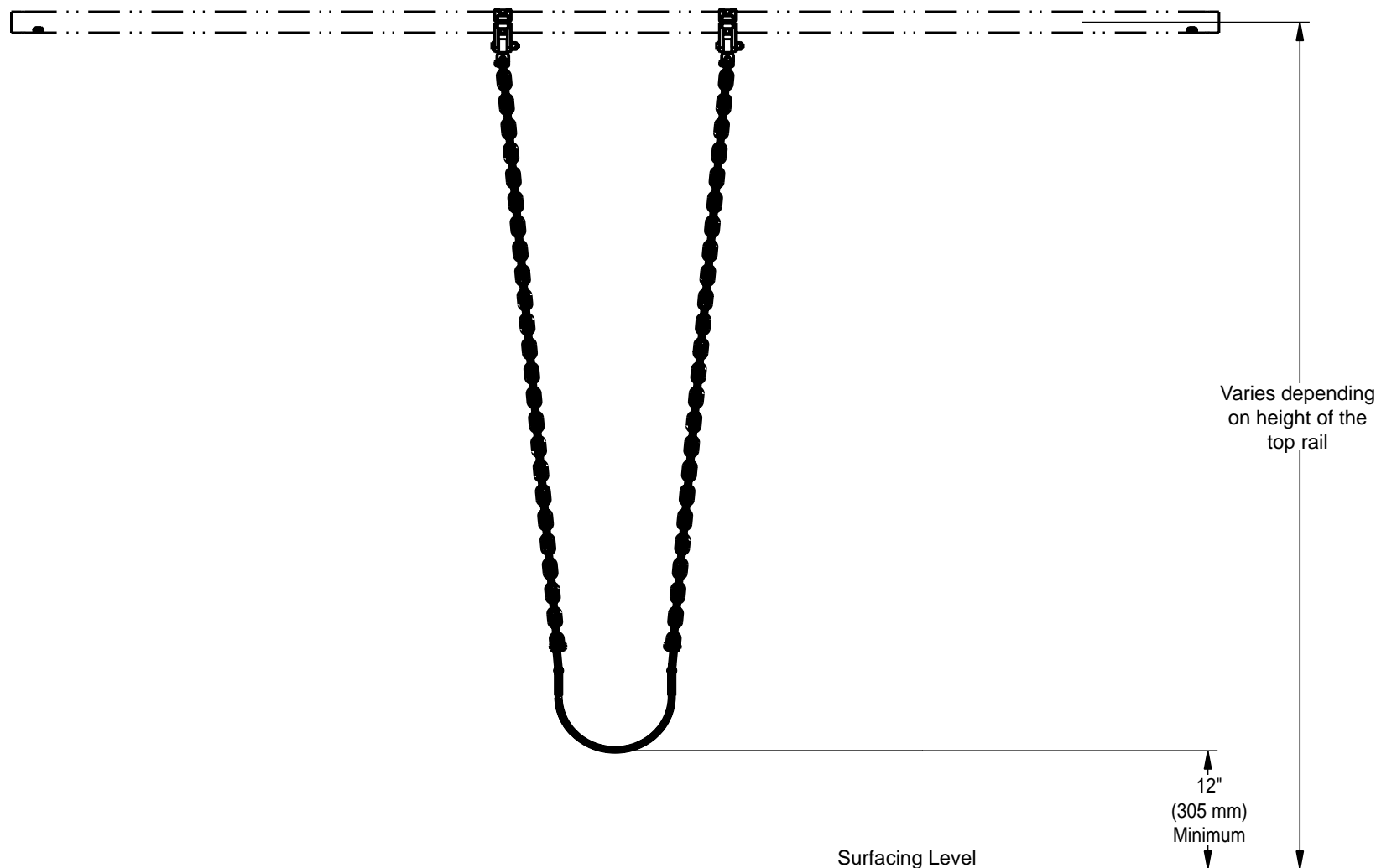
Belt Seat with Swing Chain

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

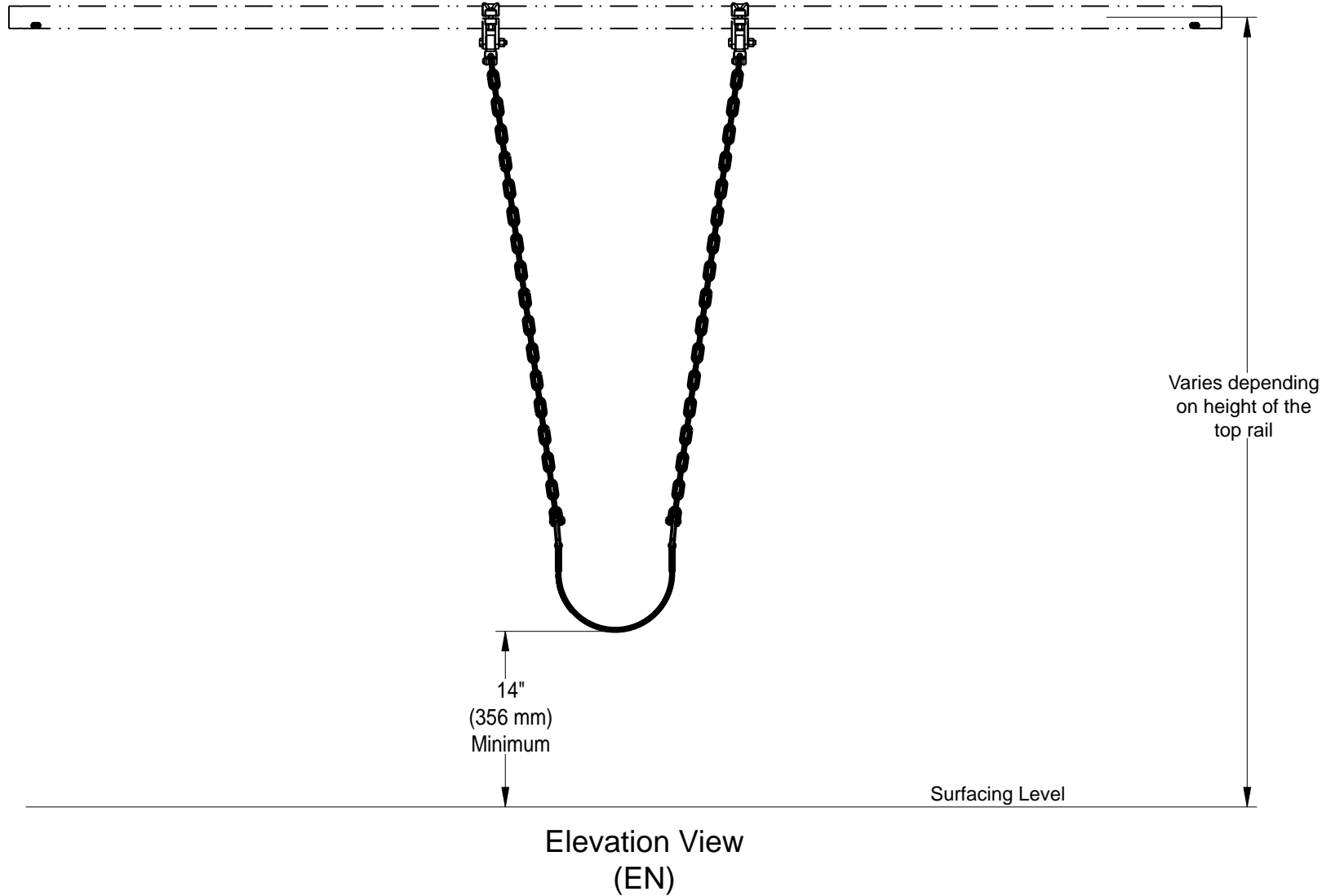


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



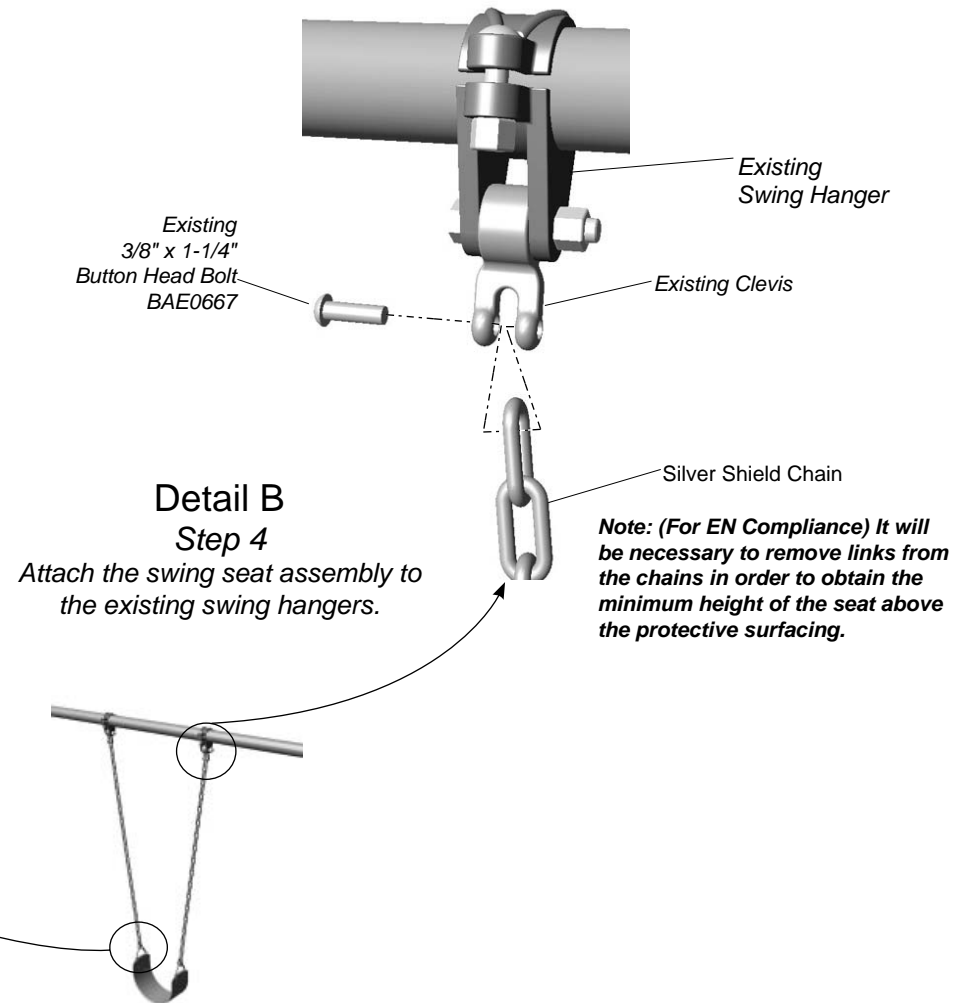
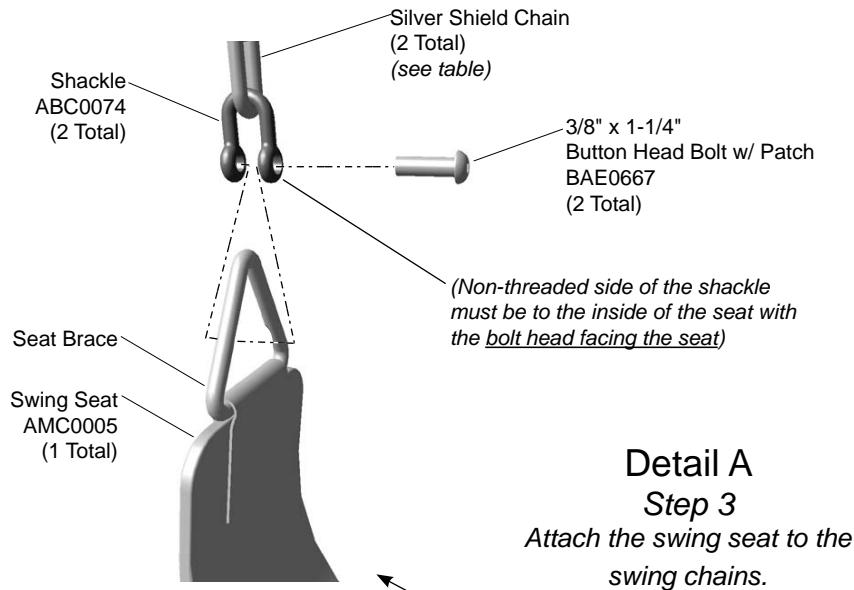
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment must be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

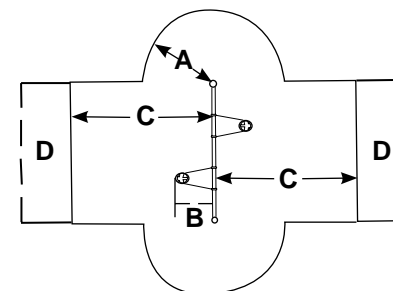
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones (ASTM/CSA)

- A** = Side Use Zone
72 in. (1829 mm)
- B** = Distance from Pivot Point to Swing Seat Surface
- C** = End Use Zone: $B \times 2$
Both Sides of Top Rail
- D** = No-encroachment Zone
72 in. (1829 mm)



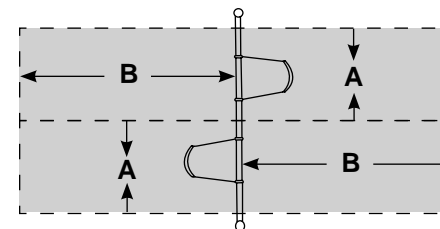
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used.}$ There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A** = Width of the corridor centered on the swing seat
1750 mm
- B** = Length of the use zone on both sides of the top rail
Tot Seats: 3025 mm for unitary surfaced areas
or 3525 mm for areas covered with loose fill surfacing.



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

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Assembly View




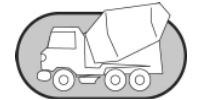
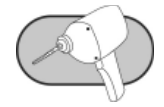


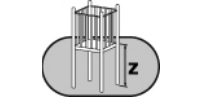
Installation Instructions

Playworld Systems® Model XX0258 Toddler Swing Add On Beam

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to page 1
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

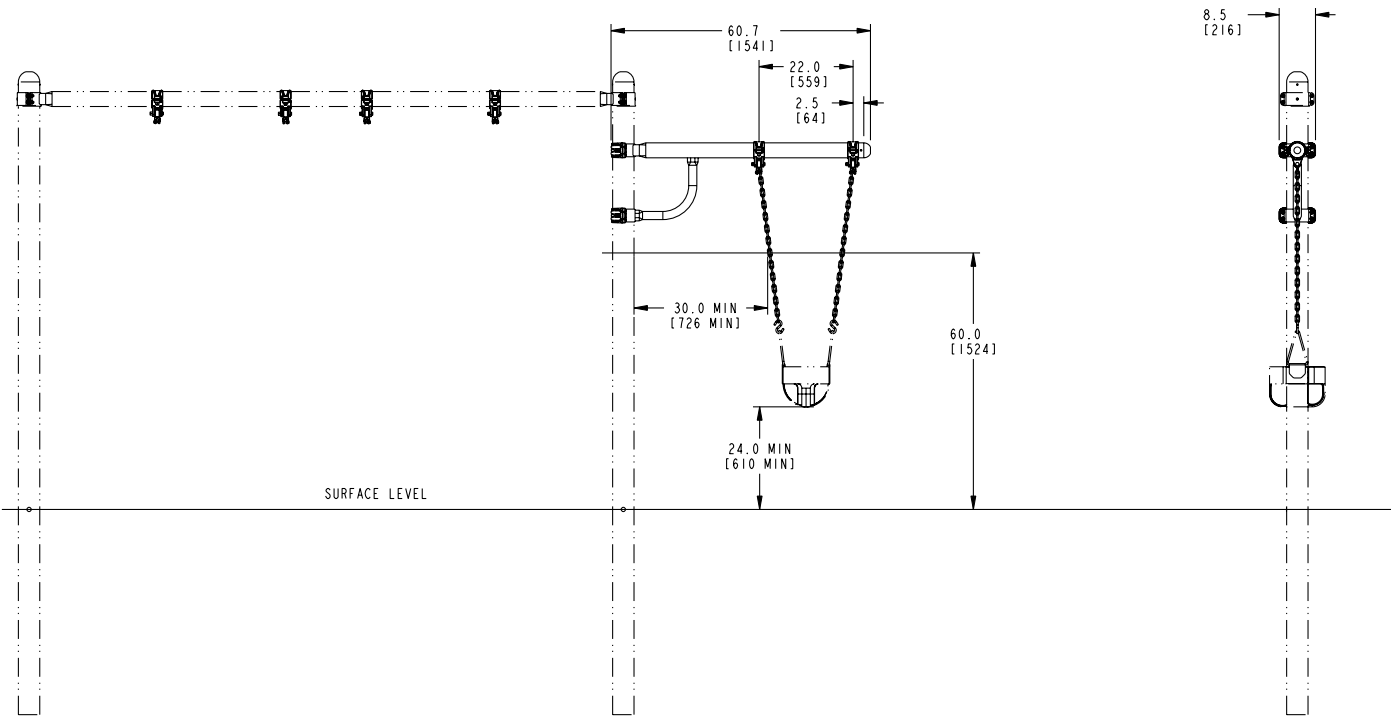
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

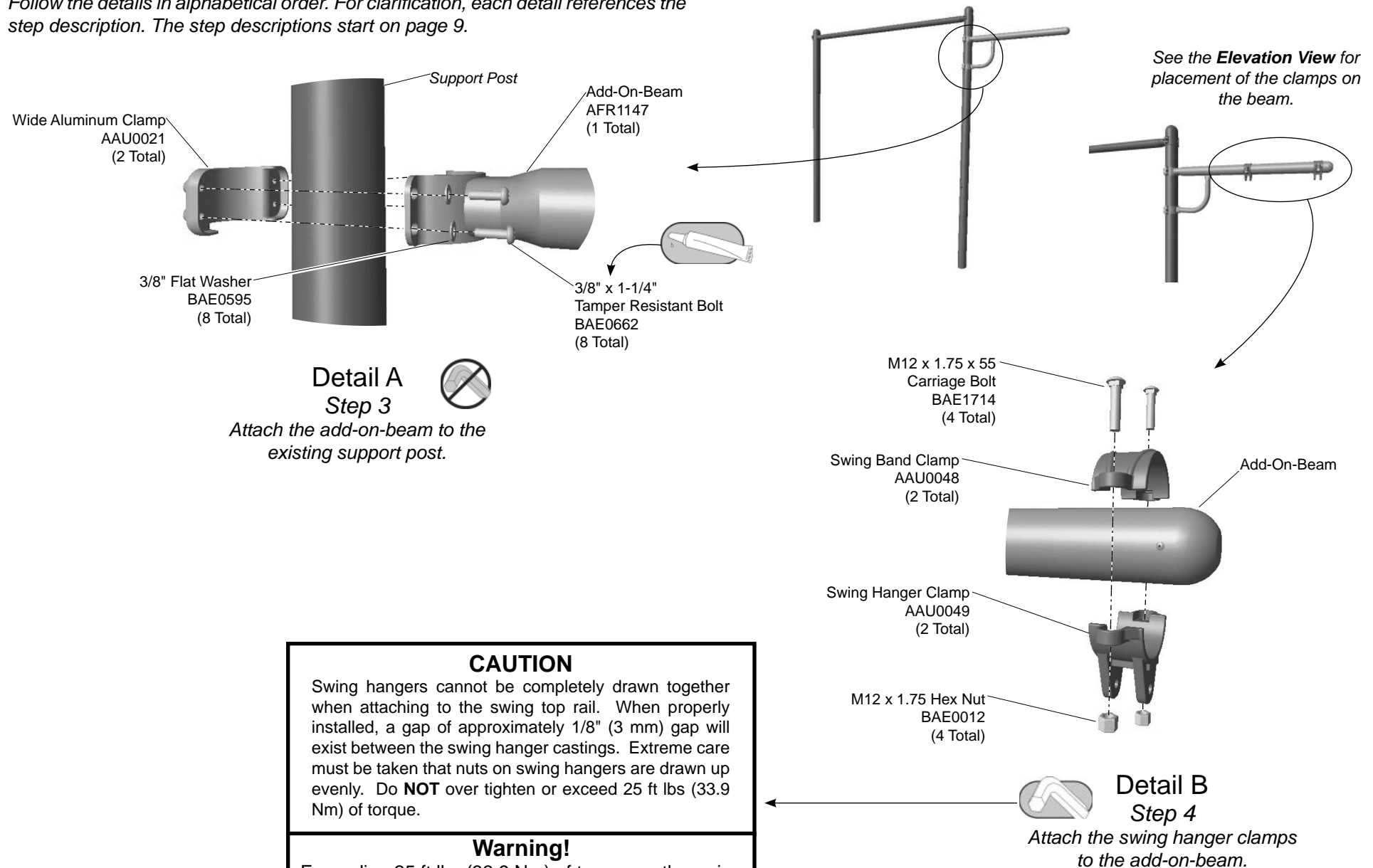
Top View



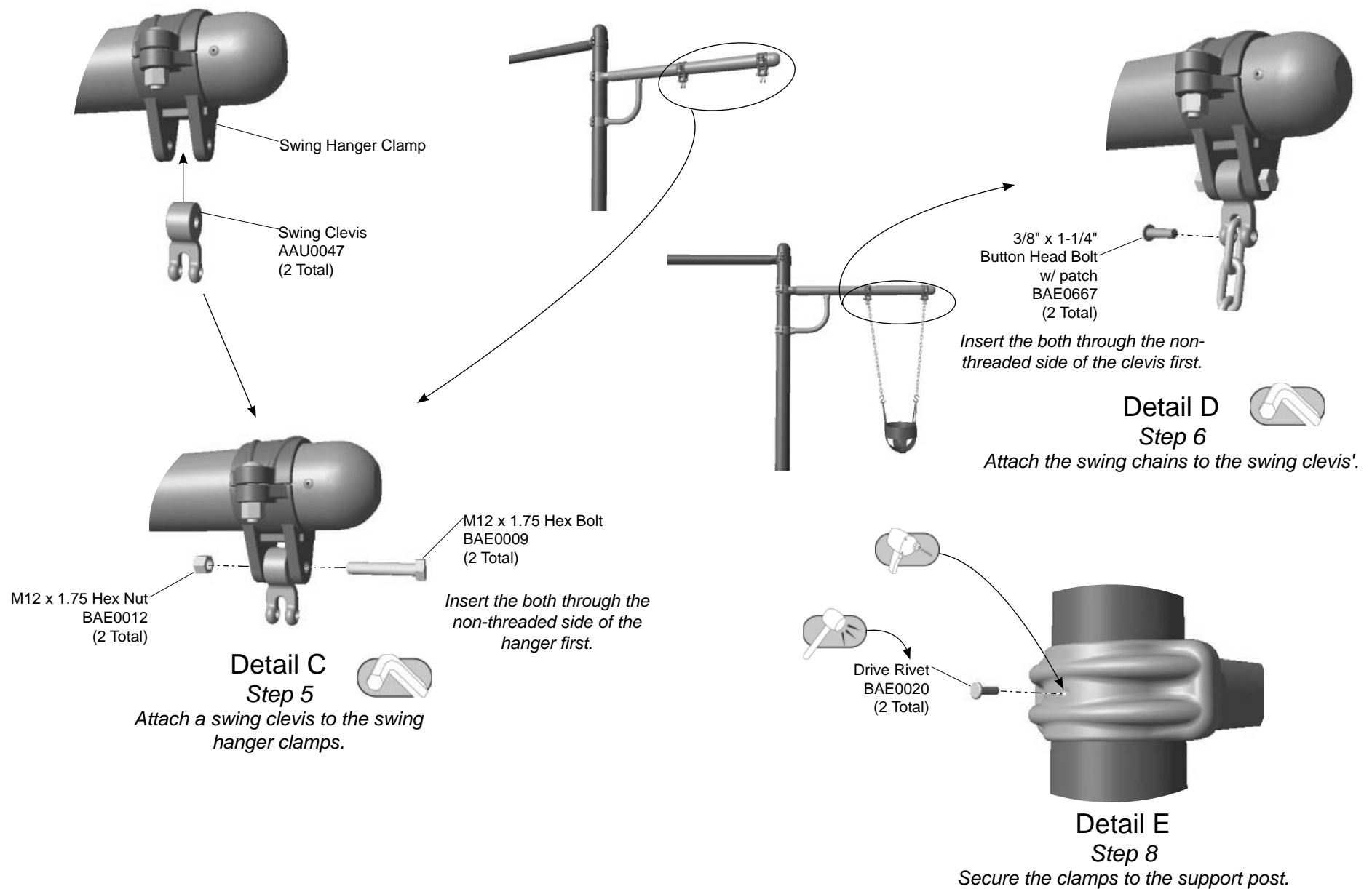
Elevation Views

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the add-on-beam to the existing support post. See **Detail A**. Place the beam to the outside of the support post, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Do not fully tighten the bolts as the beam may have to be repositioned after attachment of the tot swing (*sold separately*).

Step 4: Attach the swing hanger clamps to the add-on-beam. See **Detail B** and the **Elevation View** for placement of the clamps. Position the clamps around the beam and are properly spaced as shown in the **Elevation View** and attach as shown. Secure by carefully tightening each hex nut evenly. Extreme care must be taken that the nuts on the swing hangers are drawn up evenly. Do not overtighten or exceed 25 ft. lbs. (33.9 Nm) of torque on the connections. A uniform gap should be present between the band and bottom hanger.

Note: Please read **CAUTION** on page 7.

Step 5: Attach a clevis to each swing hanger. See **Detail C**. Position each clevis between the flanges of a bottom swing hanger and attach as shown. The hanger has a threaded and non-threaded side. Insert the bolt through the non-threaded side first. Fully tighten the fasteners according to tightening torque specifications (See **Final Details**).

Step 6: Attach the *swing chains to the swing clevis'. See **Detail D**. Insert the end link of the chain between the clevis. The clevis has a threaded and non-threaded side. Insert the bolt through the non-threaded side, the chain link, and thread into the other side of the clevis. Fully tighten the fasteners according to tightening torque specifications (See **Final Details**).

***Note:** See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Final Details

Step 7: Adjust the beam to where the swing tot seat meets the requirements show on the **Elevation View**. Tighten the fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

ZZXX0258 - TODDLER SWING ADD ON BEAM

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0047	CONNECTOR - SWING CLEVIS	2
AAU0048	CLAMP - 3-1/2" SWING BAND	2
AAU0049	CLAMP - 3-1/2" SWING HANGER	2
AFR1147	FRAME - TODDLER SWING ADD-ON BEAM	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0009	BOLT - M12 x 1.75 HEX HEAD	2
BAE1714	BOLT - M12 x 1.75 x 55 CARRIAGE	4
BAE0012	NUT - M12 x 1.75 HEX	6
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1


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www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.

Clamps and Swing Hangers

- Inspect clamps and hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect clamps and hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0258 Toddler Swing Add On Beam



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Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect clamps and hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Weight: See table below
 Use Zone: Refer to the swing frame instructions
 User Group: Ages 2 - 5 years

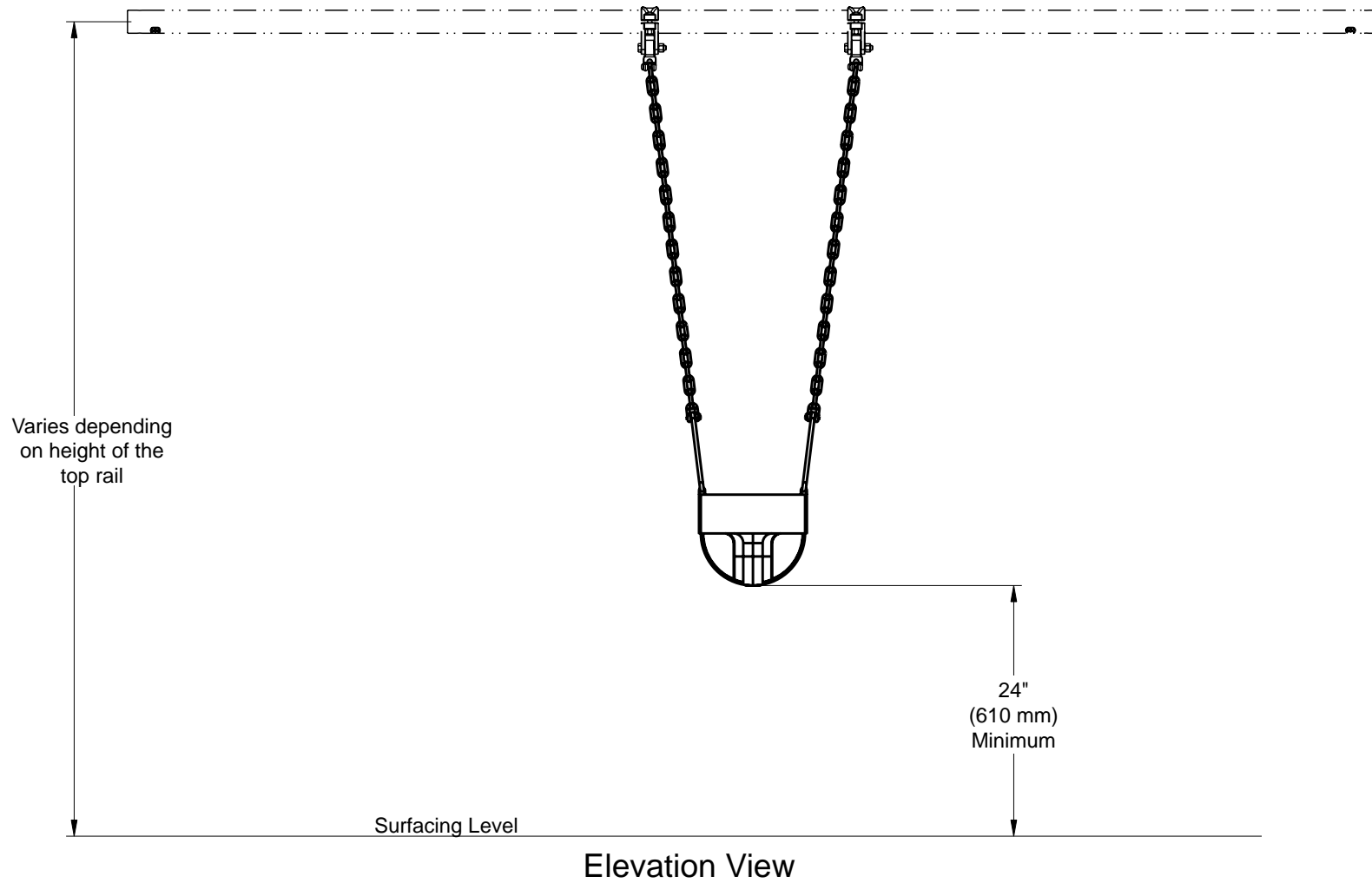
Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

ICON KEY



Fully Tighten
Hardware

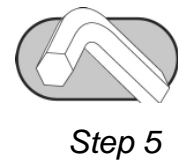
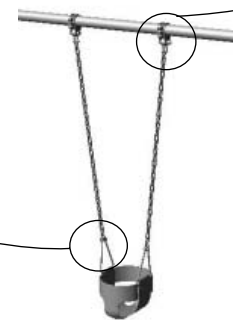
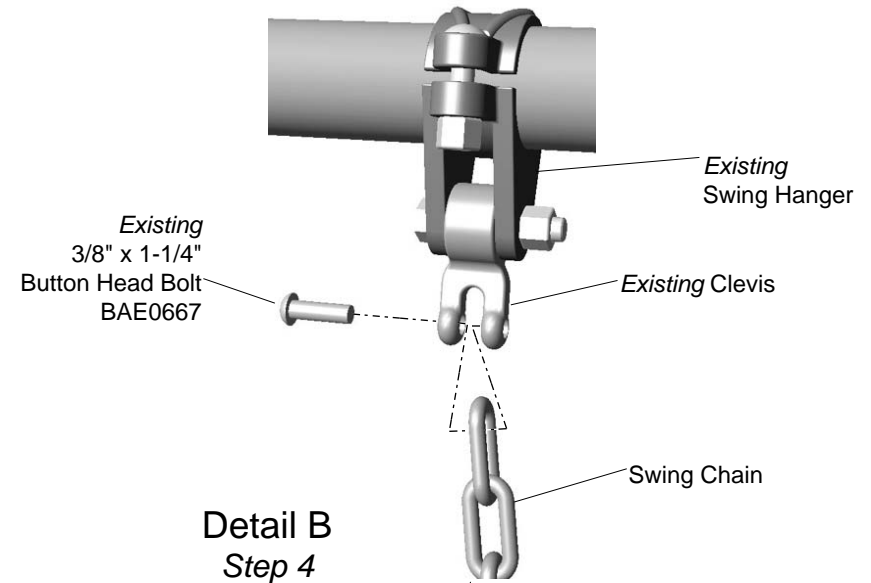
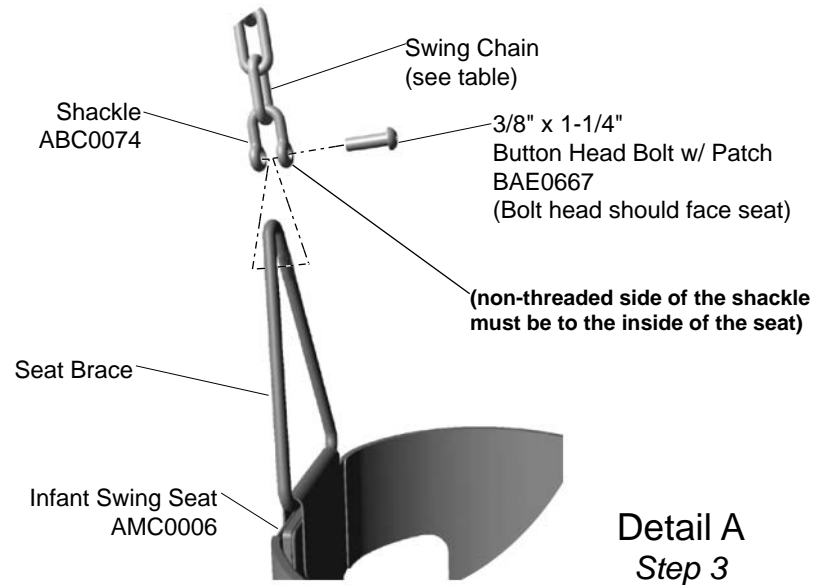
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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intentionally left blank.

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



**PLAYWORLD
SYSTEMS®**
The world needs play.™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

DEMETRAL PARK

PLAYGROUND MANUFACTURER'S INSTALLATION INFORMATION

overgrown

existing play equipment
ped gravel / sand

858.7

858.6

858.9

176038 FULL BUCKET SEAT FULL BUCKET SEAT
W/PROGUARD CHAINSW/PROGUARD CHAINS
8' BEAM HEIGHT 8' BEAM HEIGHT

174018 BELT SEAT BELT SEAT
W/PROGUARD CHAINSW/PROGUARD CHAINS
8' BEAM HEIGHT 8' BEAM HEIGHT

177330 5" ARCH SWING

177331 5" ARCH SWING
ADDITIONAL BAY

111362 TALK TUBE
115198 TALK TUBE
40' TUBING KIT

132117 SLIDEMINDER2

139272 CHINNING BAR

P9225 SQUARE POLY
ROOF W/
CUST LOGO

152432 ABC CLIMBER

111281 SLANT WINDOW
PANEL

144984 STONE PANEL
(AT GRADE)

115198 TALK TUBE

111364 LOOP
LADDER

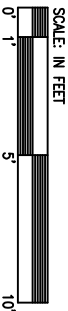
100041 CURVED
BALANCE BEAM

158105 IND WOBBLE
POD

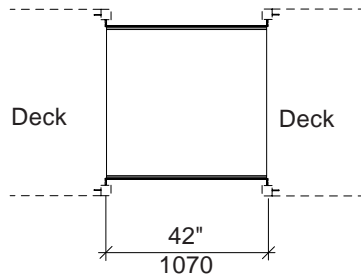
182503 WELDON SIGN
(LST PROVIDED)
2-5 YEARS

139911 THUNDERHEAD
CLIMBER

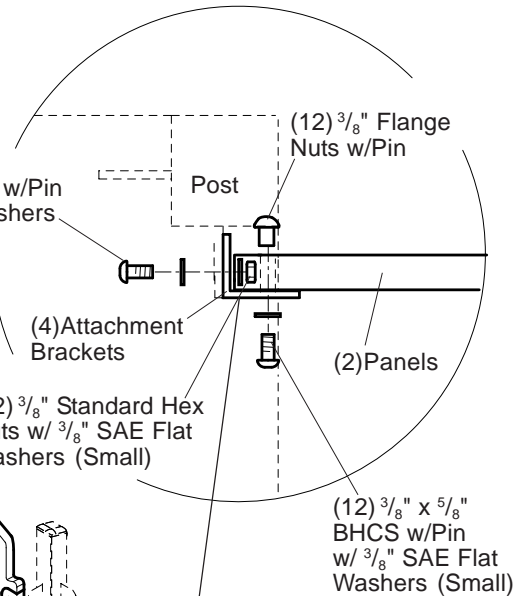
DEMETRAL PARK PG
MADISON, WI
GREEN CIRCLES
DENOTE FOOTING LOCATIONS



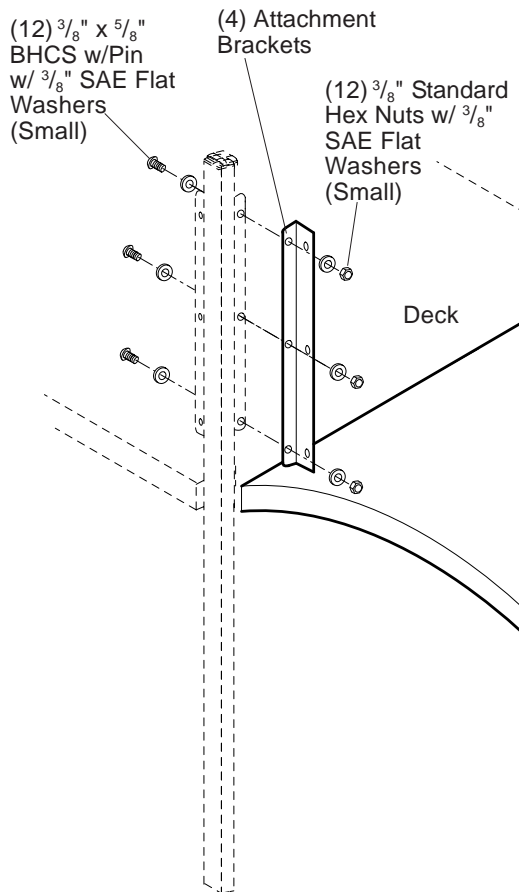
**PLAN VIEW/
FOOTING LAYOUT**



DETAIL

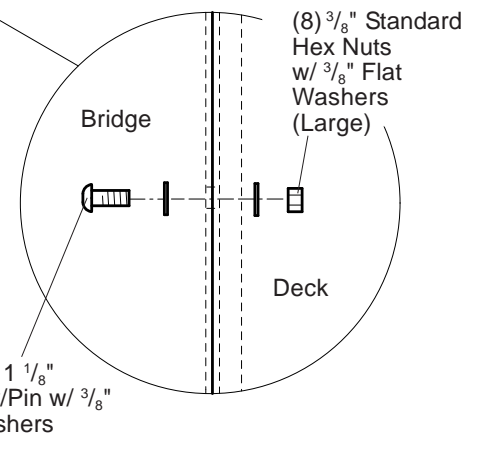


NOTE: Attachment Brackets need to be flush with post flanges.



NOTE: Shown without panel on this side for installation clarity.

DETAIL



Parts List

Part#	Description	Qty.
111796	Attachment Bracket, Specify Color	4
134945	Arch Bridge Deck, Specify Color	1
145506	Arch Bridge Panel, Specify Color	2
107031	Hardware Package	1
100195	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	24
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	8
100327	$\frac{3}{8}$ " Standard Hex Nut, SST	20
100365	$\frac{3}{8}$ " SAE Flat Washer, SST	36
100353	$\frac{3}{8}$ " Flange Nut w/Pin, SST	12
100362	$\frac{3}{8}$ " Flat Washer, SST	16

Specifications

Bridge Deck: Fabricated from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is perforated with $\frac{5}{16}$ " diameter holes. Finish: TenderTuff™, color specified.

Panels: Permalene® panel measures 41" wide x 34 $\frac{15}{16}$ " high, color specified.

Attachment Brkt: Fabricated from $\frac{1}{8}$ " x $1\frac{1}{4}$ " x 2" 6061-T6 aluminum angle. Finish: ProShield®, color specified.

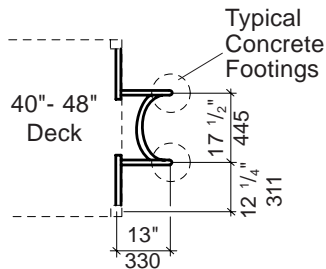
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1 man hour
Weight: 130 lbs.

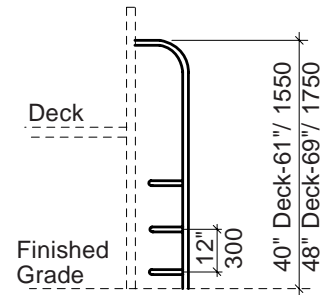
Installation Instructions

- 1) With mainstructures in position, attach arch bridge to face of decks using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flat washers (large) and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " flat washers (large). See Detail.
- 2) Attach brackets to post flanges in position shown using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers (small) and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers (small).
- 3) Attach panels to brackets in position shown using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers (small) and $\frac{3}{8}$ " flange nuts w/pin.
- 4) Install protective surfacing before users are allowed to play on the structure.

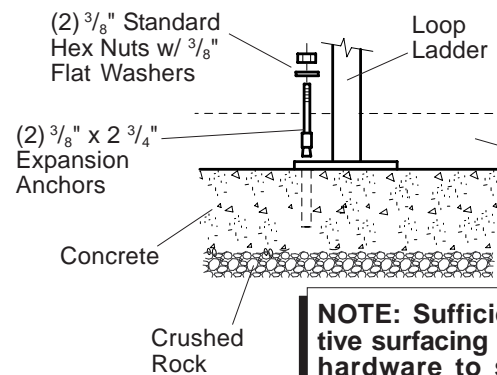
**PLAN VIEW/
FOOTING LAYOUT**



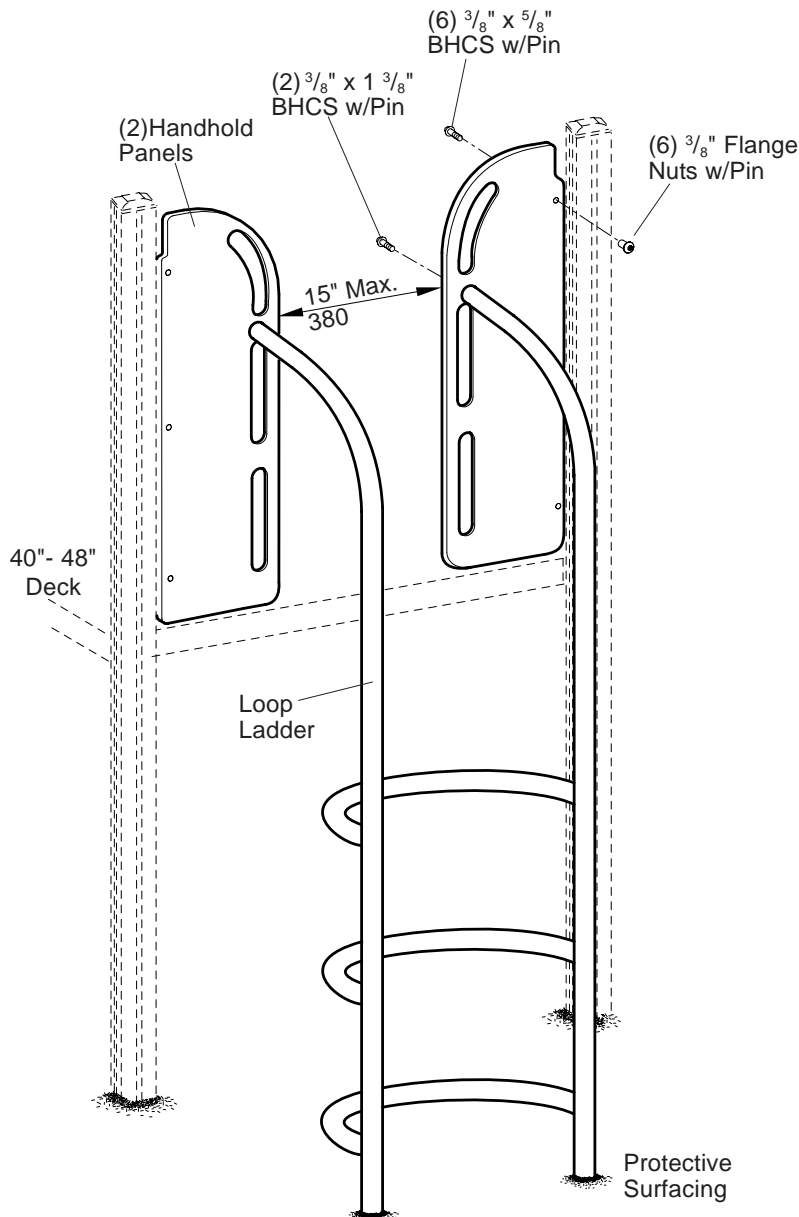
ELEVATION



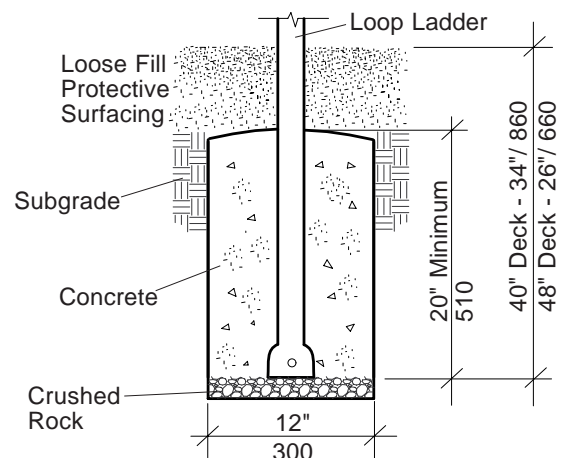
**DETAIL
SURFACE MOUNT**



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.



**DETAIL
DIRECT BURY**



Parts List

Part#	Description	Qty.
113558-00	Loop Ladder (40" & 48"), DB, Specify Color	1
112913-00	Loop Ladder 40", SM, Specify Color	1
113567-00	Loop Ladder 48", SM, Specify Color	1
145466-00	Handhold Panel, Specify Color	2
121264-00	Loop Ladder, Hardware Package	1
113027-00	$\frac{3}{8}$ " x 1 $\frac{3}{8}$ " BHCS w/Pin, SST	2
100195-00	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	6
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	6
121256-00	2-Hole (SM) Hardware Package	1
100263-00	$\frac{3}{8}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	2
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	2
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	2

DB = Direct Bury

SM = Surface Mount

Specifications

Loop Ladder:	Weldment comprised of 1.125" O.D. 11 GA (.120") black steel tubing. Finish: TenderTuff®, color specified.
Handhold Panel:	Solid color Permalene®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 1 man hour
Concrete Req:	26" - Approx. 2.6 cu. ft. 34" - Approx. 3 cu. ft.
Weight:	(40" & 48") DB - 59 lbs. 40" SM - 52 lbs. 48" SM - 56 lbs.
Fall Height:	40" (1,02 m) 48" (1,22 m)

Installation Instructions

Direct Bury

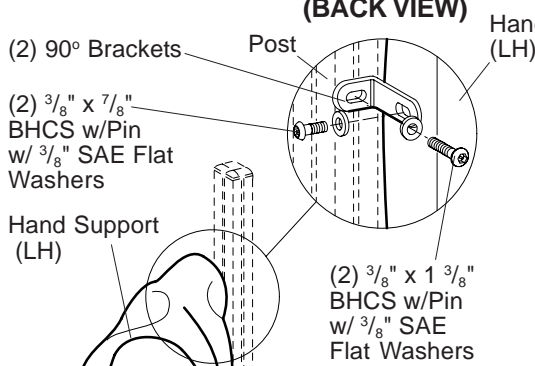
- 1) Dig footings spaced as shown.
- 2) Attach handhold panels to post flanges using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flange nuts w/pin.
- 3) Using a $\frac{7}{16}$ " drill bit, drill out the two $\frac{1}{8}$ " pilot holes in each handhold panel for attachment of loop ladder.
- 4) Position loop ladder in footing holes and line up holes in loop ladder with drilled holes in handhold panels. Attach to handhold panels using $\frac{3}{8}$ " x 1 $\frac{3}{8}$ " BHCS w/pin.
- 5) With ladder side rails plumb, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.
- 6) Install protective surfacing before users are allowed to play on the structure.

Surface Mount

- 1) Attach handhold panels to post flanges using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flange nuts w/pin.
- 2) Using a $\frac{7}{16}$ " drill bit, drill out the two $\frac{1}{8}$ " pilot holes in each handhold panel for attachment of loop ladder.
- 3) Position loop ladder in footing holes and line up holes in loop ladder with drilled holes in handhold panels. Attach to handhold panels using $\frac{3}{8}$ " x 1 $\frac{3}{8}$ " BHCS w/pin.
- 4) With ladder side rails plumb, drill through holes in footer plate 3" deep into concrete slab using $\frac{3}{8}$ " masonry bit.
- 5) Tap $\frac{3}{8}$ " x 2 $\frac{3}{4}$ " expansion anchors through footer plate holes and into concrete. Secure with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts screwed down tight.
- 6) Install protective surfacing before users are allowed to play on the structure.

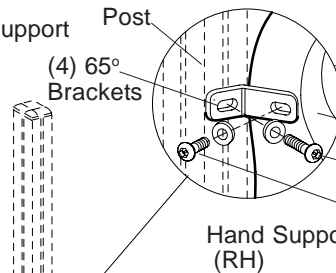
DETAIL

**HAND SUPPORT (LH)
TO POST ATTACHMENT
(BACK VIEW)**

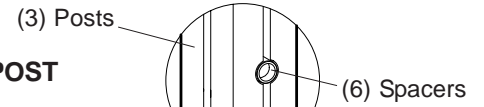


DETAIL

**HAND SUPPORT (RH) TO POST
ATTACHMENT**



DETAIL

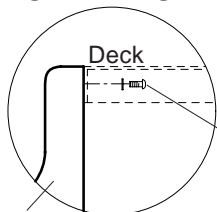


NOTE: Insert spacers into posts before attaching brackets.

Hand Support (RH)
(4) 3/8" x 1 3/8" BHCS w/Pin
w/ 3/8" SAE Flat Washers
(4) 3/8" x 7/8" BHCS w/Pin
w/ 3/8" SAE Flat Washers

**NOTE: Minimum of (2)
surface mount anchors
required for this post.**

**DETAIL
THUNDERHEAD CLIMBER
TO DECK ATTACHMENT**



(2) Deck Hanger
Clamp Assemblies

(2) 3/8" x 7/8" BHCS w/Pin
w/ 3/8" Flat Washers

Thunderhead
Climber

(2) PlayBooster
Posts

Thunderhead
Climber

PlayShaper® 139911 Thunderhead Climber®, 48" Deck

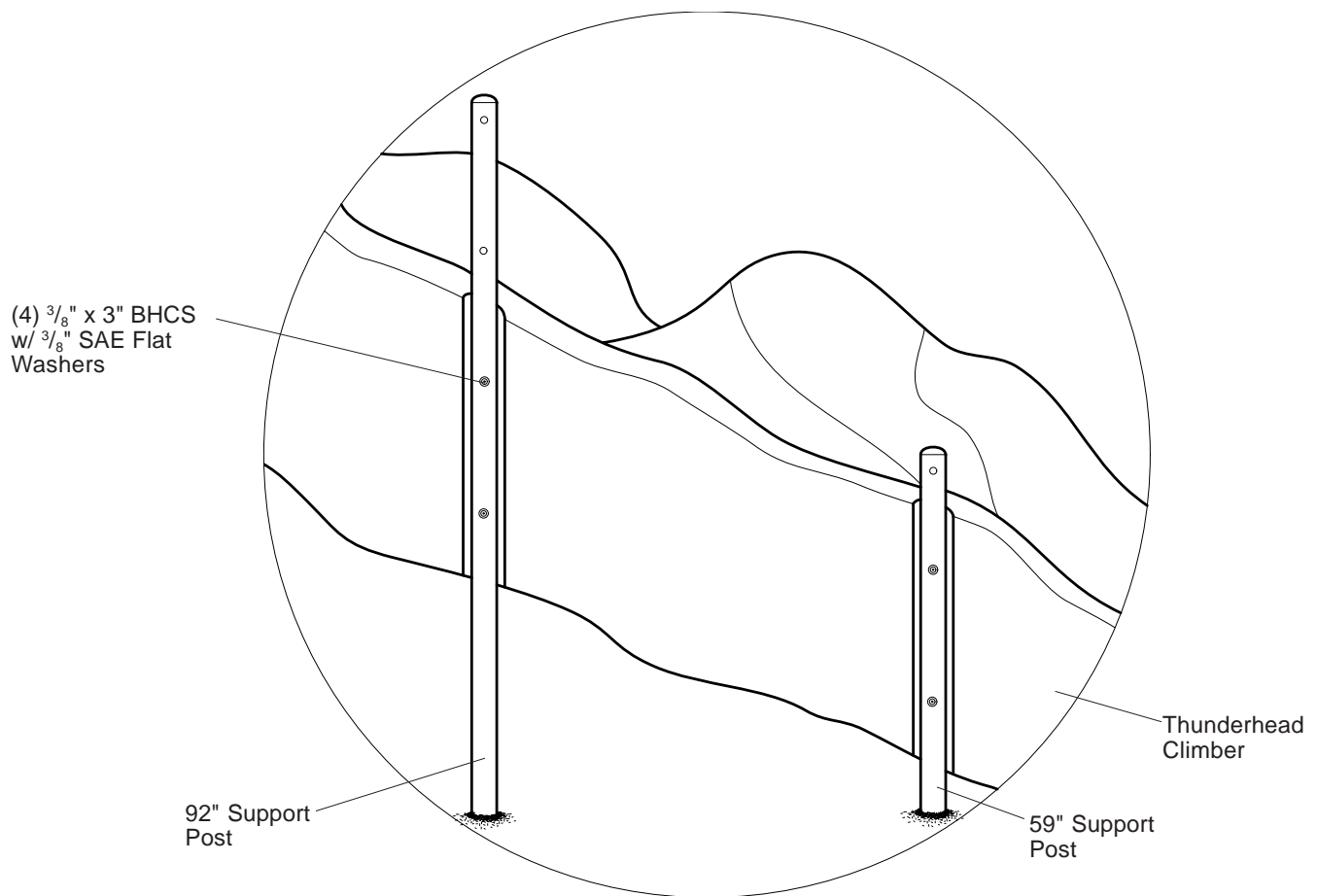
Sheet 1 of 3

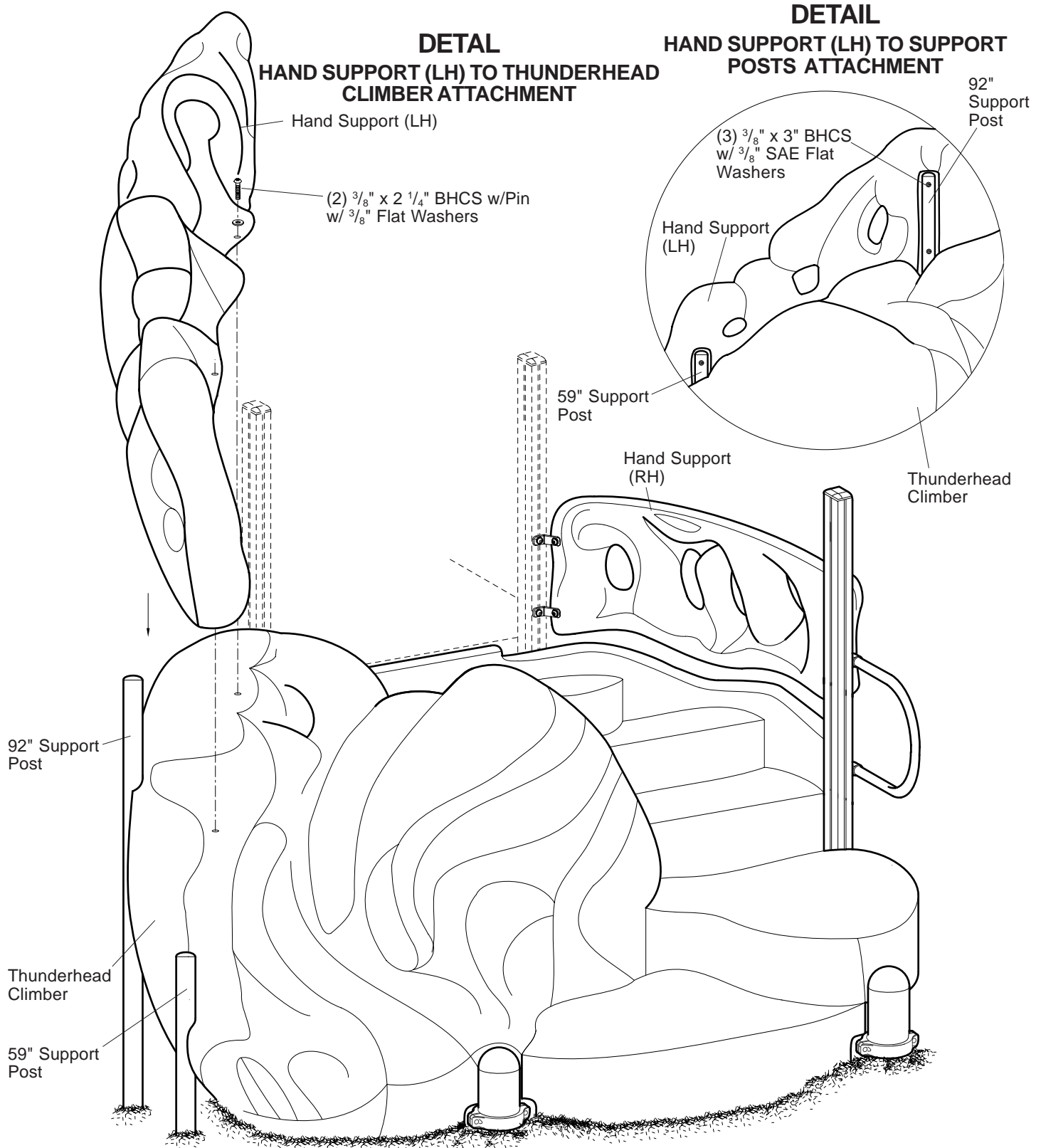
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #16758500

DETAIL
THUNDERHEAD CLIMBER TO SUPPORT
POSTS ATTACHMENT





PlayShaper® 139911 Thunderhead Climber®, 48" Deck

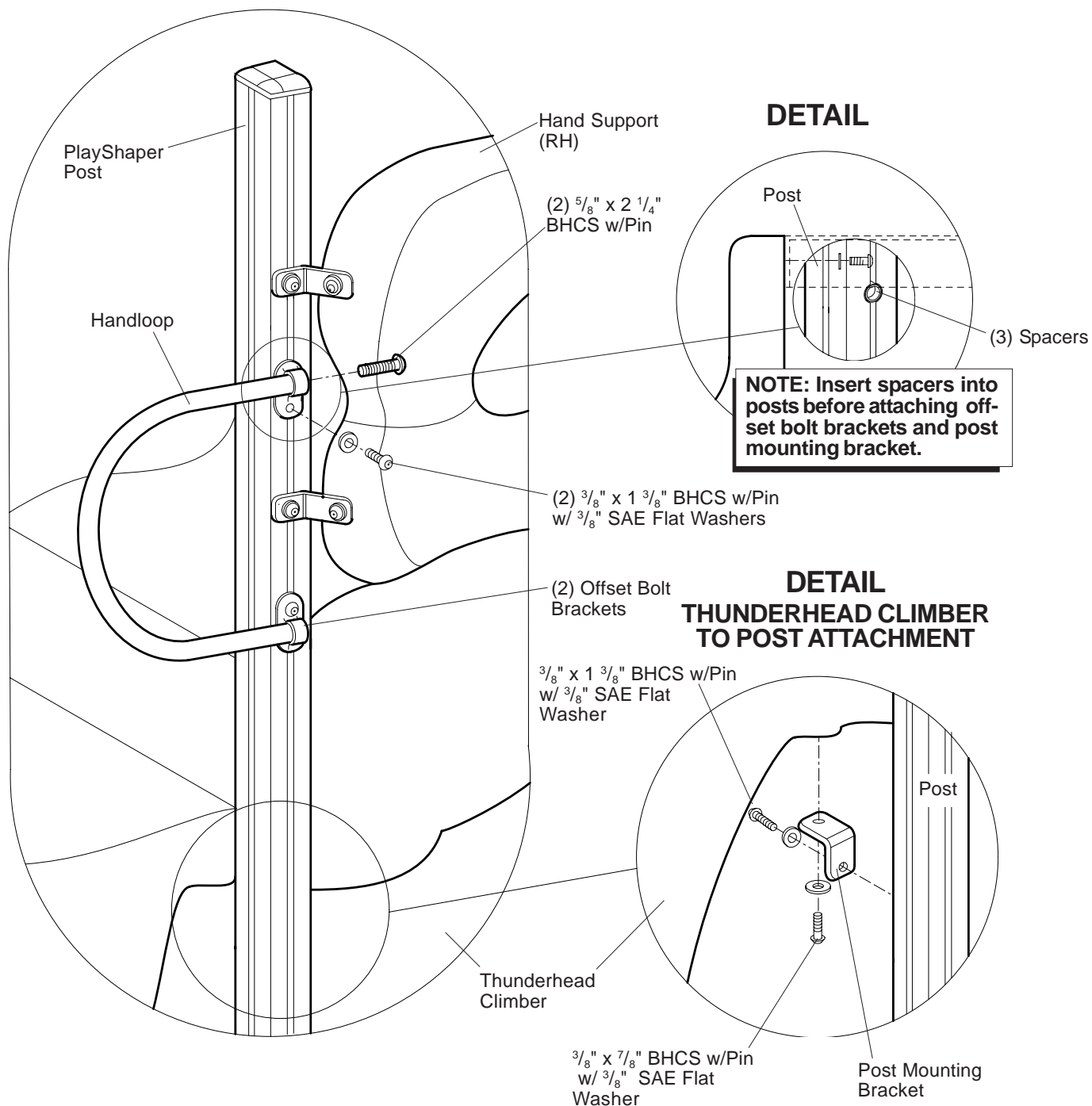
Sheet 2 of 3

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Document #16758500

DETAIL HANDLOOP ATTACHMENT

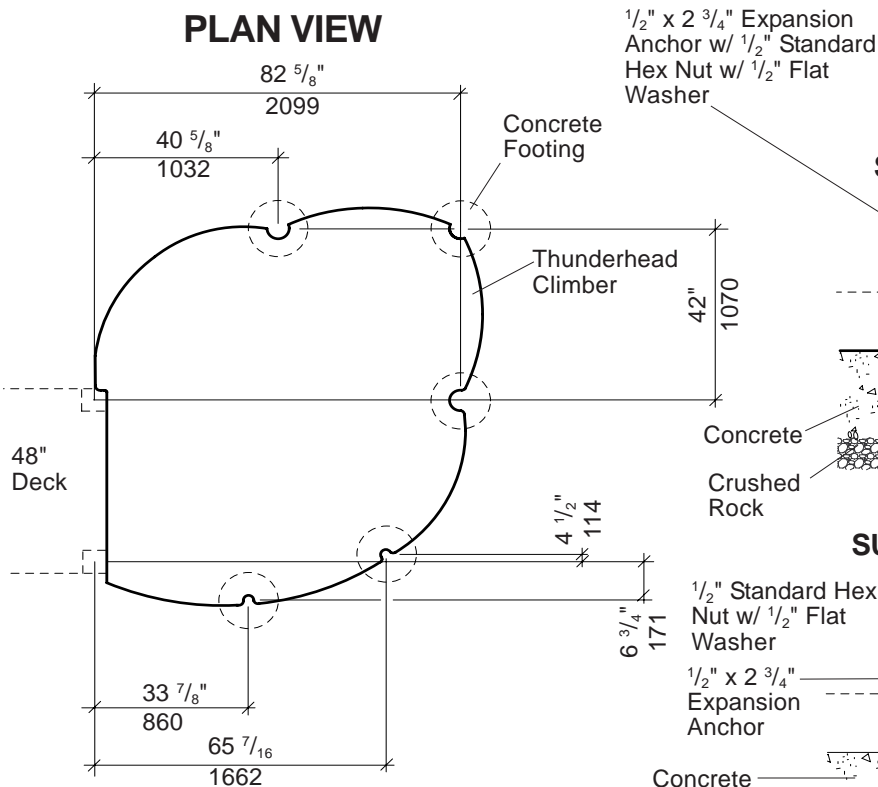


PlayShaper® 139911 Thunderhead Climber®, 48" Deck

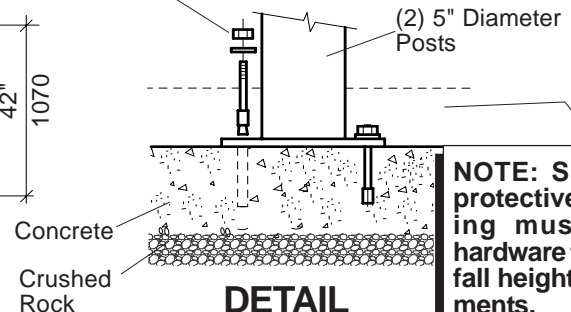
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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PLAN VIEW

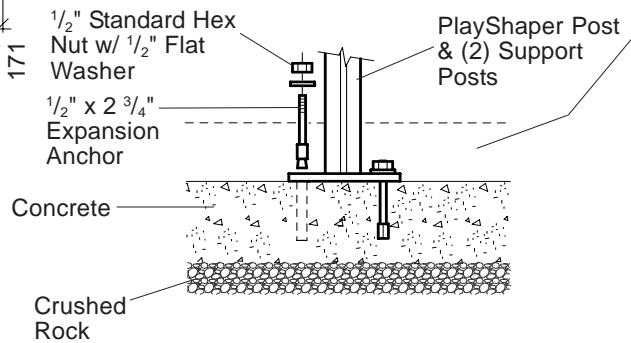


**DETAIL
SURFACE MOUNT**

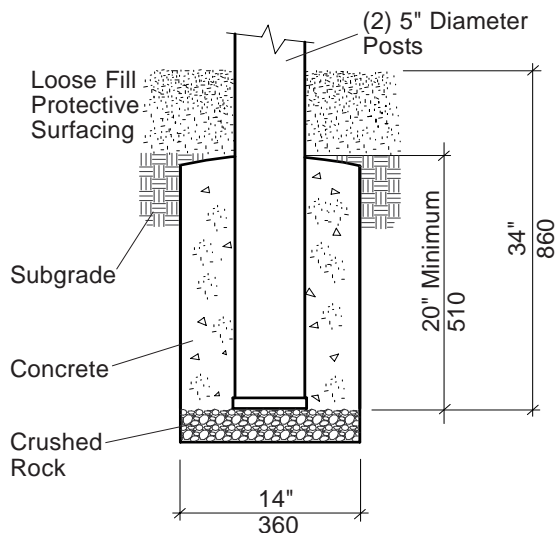


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

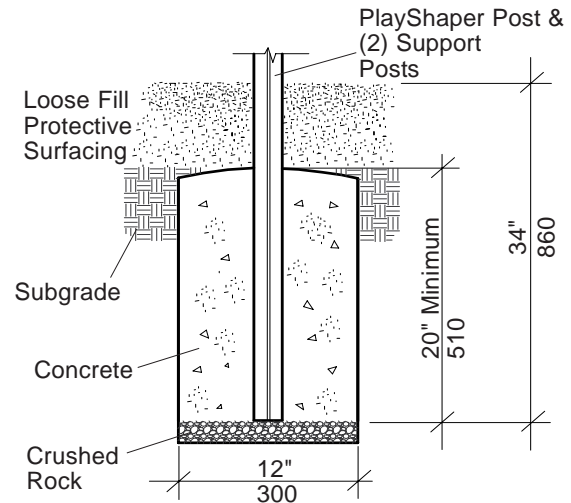
**DETAIL
SURFACE MOUNT**



**DETAIL
DIRECT BURY**



**DETAIL
DIRECT BURY**





PlayShaper® 139911 Thunderhead Climber®, 48" Deck

J:\SPECS\167\16758500.P65

Parts List

Part#	Description	Qty.
138764-00	Thunderhead Climber, Specify Color	1
138768-00	Hand Support (LH), Specify Color	1
138769-00	Hand Support (RH), Specify Color	1
114984-00	Handloop, Specify Color	1
105327-01	5" Half Clamp, Specify Color	2
106022-00	5" Deck Hanger Clamp, Specify Color	2
113895-00	Offset Bolt Bracket, Specify Color	2
140696-00	90° Bracket, Specify Color	2
140701-00	65° Bracket, Specify Color	4
140716-00	Post Mounting Bracket, Specify Color	1
140713-00	PlayShaper Post (DB), Specify Color	1
140714-00	PlayShaper Post (SM), Specify Color	1
140705-00	47" Aluminum Post (DB), Specify Color	1
140707-00	15" Aluminum Post (SM), Specify Color	1
140703-00	42" Aluminum Post (DB), Specify Color	1
140706-00	10" Aluminum Post (SM), Specify Color	1
140592-00	92" Support Post (DB), Specify Color	1
140594-00	60" Support Post (SM), Specify Color	1
140593-00	59" Support Post (DB), Specify Color	1
140595-00	27" Support Post (SM), Specify Color	1
140795-00	Thunderhead Climber Hardware Package	1
100176-00	3/8" x 3" BHCS, SST	7
100196-00	3/8" x 7/8" BHCS w/Pin, SST	13
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	4
100199-00	3/8" x 2 1/4" BHCS w/Pin, SST	2
100203-00	5/8" x 2 1/4" BHCS w/Pin, SST	2
100351-00	3/8" Tee Nut, SST	4
100362-00	3/8" Flat Washer, SST	8
100365-00	3/8" SAE Flat Washer, SST	23
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	2
113027-00	3/8" x 1 3/8" BHCS w/Pin, SST	9
166868-00	3/4" O.D. x .390" Spacer, Aluminum	9
111392-00	2-Hole SM Hardware Package	2
100266-00	1/2" x 2 3/4" Expansion Anchor	4
100322-00	1/2" Standard Hex Nut, SST	4
100363-00	1/2" Flat Washer, SST	4
121348-00	4-Hole SM Hardware Package	3
100266-00	1/2" x 2 3/4" Expansion Anchor	12
100322-00	1/2" Standard Hex Nut, SST	12
100363-00	1/2" Flat Washer, SST	12

DB=Direct Bury

SM = Surface Mount

Specifications

Thunderhead Climber:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Hand Supports:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Handloop:	Weldment comprised of 1.125" O.D. x 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with 5/8" internal threads. Finish: TenderTuff™, color specified.
Brackets:	Fabricated from 1/4" HRPO sheet steel. Finish: ProShield®, color specified.
Post:	See PlayShaper® (PS) General Specifications.
Post:	See PlayBooster® (PB) General Specifications.

Support Post: Fabricated from 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and cast aluminum pipe cap. Finish: ProShield, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Offset Bolt Brkt.: Cast from 356-T6 aluminum alloy. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: SM - Approx. 6 man hours

DB - Approx. 8 man hours

Concrete Req.: Approx. 8.2 cu. ft.

Weight: 531 lbs.

Fall Height: 48" (1,22 m) Deck Height

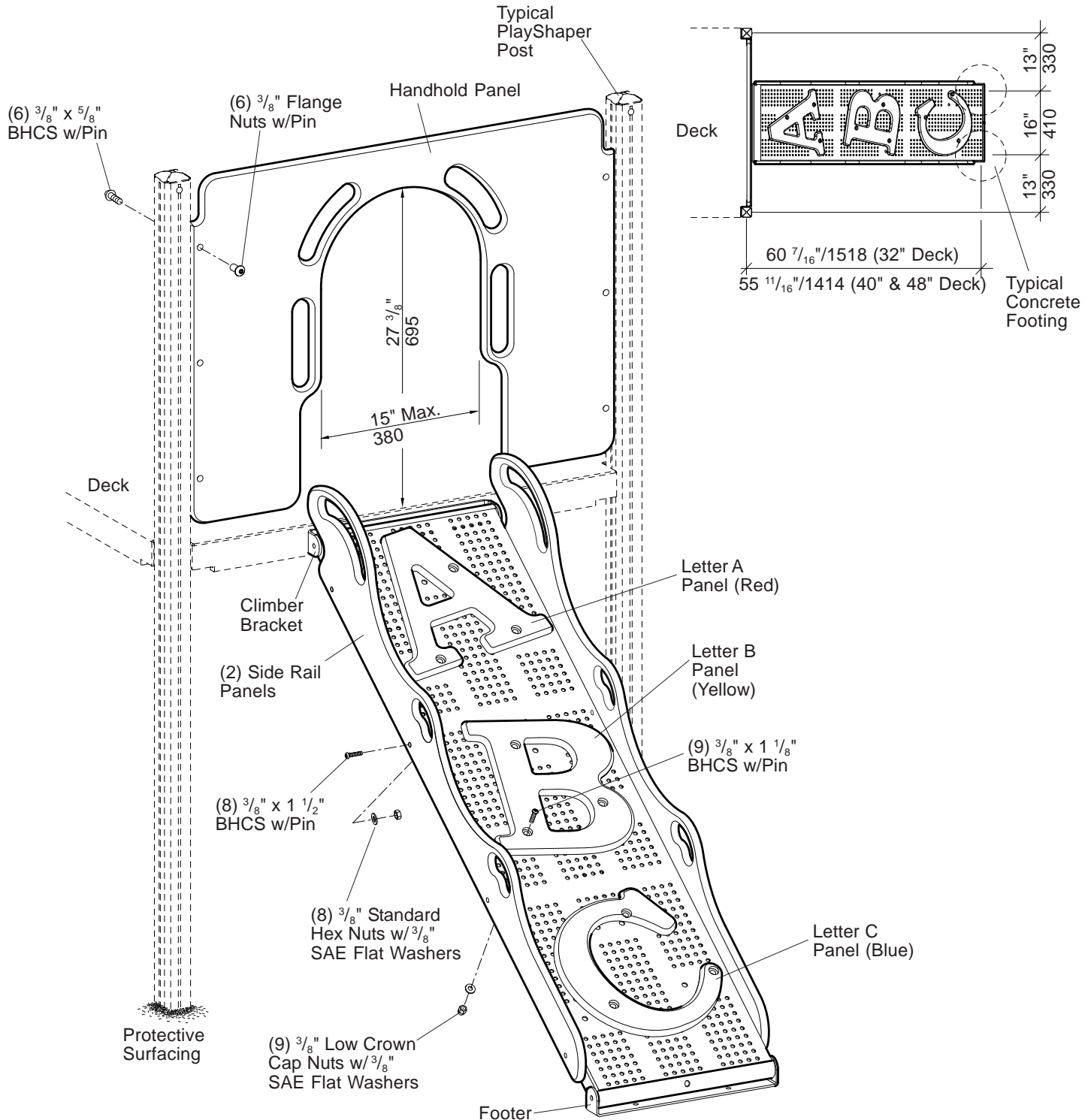
Installation Instructions

- 1) **(Direct Bury)** Dig footings spaced as shown.
- 2) Attach deck hanger clamps to posts at heights shown using 5" half clamp, 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 3) Attach posts with deck hanger clamps to Thunderhead Climber using 3/8" x 7/8" BHCS w/pin with 3/8" flat washers.
- 4) Attach Thunderhead Climber to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" flat washers.
- 5) Attach 90° brackets, 65° brackets and PlayShaper post bracket to posts using 3/4" O.D. x .390" spacers and 3/8" x 1 3/8" BHCS w/pin with 3/8" SAE flat washers. Refer to Detail.
- 6) Attach PlayShaper post to Thunderhead Climber using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers.
- 7) Attach support posts to Thunderhead Climber using 3/8" x 3" BHCS with 3/8" SAE flat washers.
- 8) **(Surface Mount)** Drill 1/2" x 3" deep holes through anchor plate holes and into concrete using a hammer drill and 1/2" masonry bit. Tap 1/2" x 2 3/4" expansion anchors into drilled holes and fasten using 1/2" standard hex nuts with 1/2" flat washers. **NOTE:** All anchor holes are not accessible.
- 9) Attach hand support (LH) to support posts using 3/8" x 3" BHCS with 3/8" SAE flat washers.
- 10) Attach the hand support (LH) to the Thunderhead Climber using 3/8" x 2 1/4" BHCS w/pin with 3/8" flat washers.
- 11) Attach left and right hand supports to brackets using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers.
- 12) Attach offset bolt brackets to the post using 3/4" O.D. x .390" spacers and 3/8" x 1 3/8" BHCS w/pin and 3/8" SAE flat washers.
- 13) Attach handloop to offset bolt brackets using 5/8" x 2 1/4" BHCS w/pin.
- 14) **(Direct Bury)** With supports and posts plumb pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.
- 15) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Offset Hanger Clamp Spec Sheet.
- 16) Install protective surfacing before users are allowed to play on the structure.

Eco #53834 Document #16758500 replaces #14858900. Added 3/4" O.D. x .390" spacers to hardware package.
Eco #54121 Changed material for brackets.

Specifications are subject to change without notice.

PLAN VIEW/DB FOOTING LAYOUT



Parts List

Part#	Description	Qty.
152391-00	Climber Plank, Specify Color	1
145467-00	Handhold Panel, Specify Color	1
122122-00	Climber Bracket, Specify Color	1
122131-00	Footer (DB), Specify Color	1
122646-00	Footer (SM) 32" & 40", Specify Color	1
137805-00	Footer (SM) 48", Specify Color	1
152446-00	Letter A Panel, Red	1
152447-00	Letter B Panel, Yellow	1
152448-00	Letter C Panel, Blue	1
152449-00	Side Rail Panel, Specify Color	2
203887-00	ABC Climber Hardware Package	1
100195-00	$\frac{3}{8}$ " x $\frac{3}{8}$ " BHCS w/Pin, SST	6
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	2
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	13
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	14
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	6
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	27
100171-00	$\frac{3}{8}$ " x 1 $\frac{1}{2}$ " BHCS w/Pin, SST	8
100349-00	$\frac{3}{8}$ " Low Crown Cap Nuts, SST	9
111392-00	2 Hole (SM) 32" & 40" Hardware Package	1
100266-00	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	2
100322-00	$\frac{1}{2}$ " Standard Hex Nut, SST	2
100363-00	$\frac{1}{2}$ " Flat Washer, SST	2
111394-00	4 Hole (SM) 48" Hardware Package	1
100263-00	$\frac{3}{8}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	4
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	4
100362-00	$\frac{3}{8}$ " Flat Washer, SST	4

DB=Direct Bury
SM=Surface Mount

Specifications

Climber Plank:	Flange formed from 11 GA (.120") sheet steel conforming to ASTM A1011. Standing surface is perforated with $\frac{5}{16}$ " diameter holes. Finish: TenderTuff™, color specified.
Climber Bracket:	Fabricated from formed $\frac{3}{16}$ " x 2" HRPO steel sheet. Finish: ProShield®, color specified.
Footer:	Weldment comprised of 1.660" O.D. RS-20 (.085"-.095") galvanized steel tubing and $\frac{3}{16}$ " x 2" HRPO steel sheet. Finish: ProShield, color specified.
Panels:	Solid color Permalene®, color specified.
Fasteners:	Primary fasteners are socketed and pinned tamperproof in design, either stainless steel (SST) or carbon steel plated with zinc/nickel and iridescent chromate finish.
Installation Time:	SM - Approx. 2 man hours DB - Approx. 2 $\frac{1}{2}$ man hours
Concrete Req.:	Approx. 2 cu. ft.
Area Req.:	6' (1830 mm) minimum use zone at exit
Weight:	SM - 120 lbs. (32" & 40" Deck Height) SM - 124 lbs. (48" Deck Height) DB - 128 lbs.
Fall Height:	Deck Height

Installation Instructions

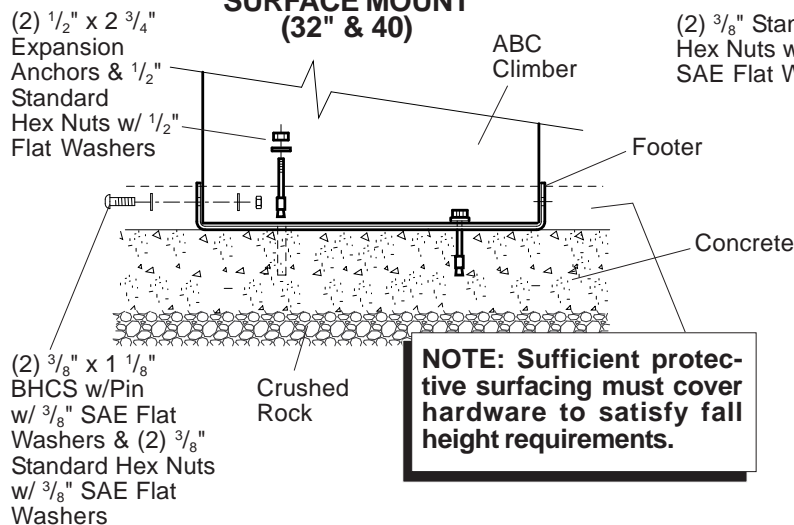
- 1) Dig footing holes spaced as shown.
- 2) Attach handhold panel to post flanges using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin and $\frac{3}{8}$ " flange nuts w/pin.
- 3) Attach letter panels A, B and C to the climber plank using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " SAE flat washers.
- 4) Attach side rail panels to the climber plank using $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- 5) Attach climber plank to climber bracket and footer using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers. Refer to the Plank Attachment Detail.
- 6) Attach climber bracket to the face of the deck using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers. Refer to the Plank Attachment Detail.
- 7) **(Direct Bury)** With ABC climber in final position, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure. **NOTE:** When installing a ABC climber off of a 48" deck, the ABC climber will have to be blocked in position prior to pouring concrete footing.

(Surface Mount 32" & 40") Mark anchor bolt locations on concrete slab through holes in footer and remove ABC climber from climber bracket. Drill $\frac{1}{2}$ " x 3" deep holes on marks into concrete using hammer drill and $\frac{1}{2}$ " masonry bit. Tap expansion anchors into drilled holes. Reposition ABC climber and reattach to the climber bracket. Fasten footer to expansion anchors using $\frac{1}{2}$ " standard hex nuts with $\frac{1}{2}$ " flat washers.

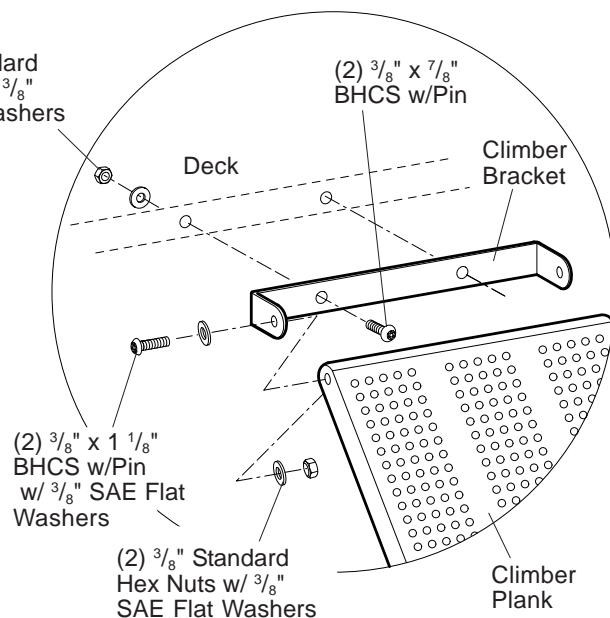
(Surface Mount 48") Mark anchor bolt locations on concrete slab through holes in footer and remove ABC climber from climber bracket. Drill $\frac{3}{8}$ " x 3" deep holes on marks into concrete using hammer drill and $\frac{3}{8}$ " masonry bit. Tap expansion anchors into drilled holes. Reposition ABC climber and reattach to the climber bracket. Fasten footer to expansion anchors using $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " flat washers.

- 8) Install protective surfacing before users are allowed to play on the structure.

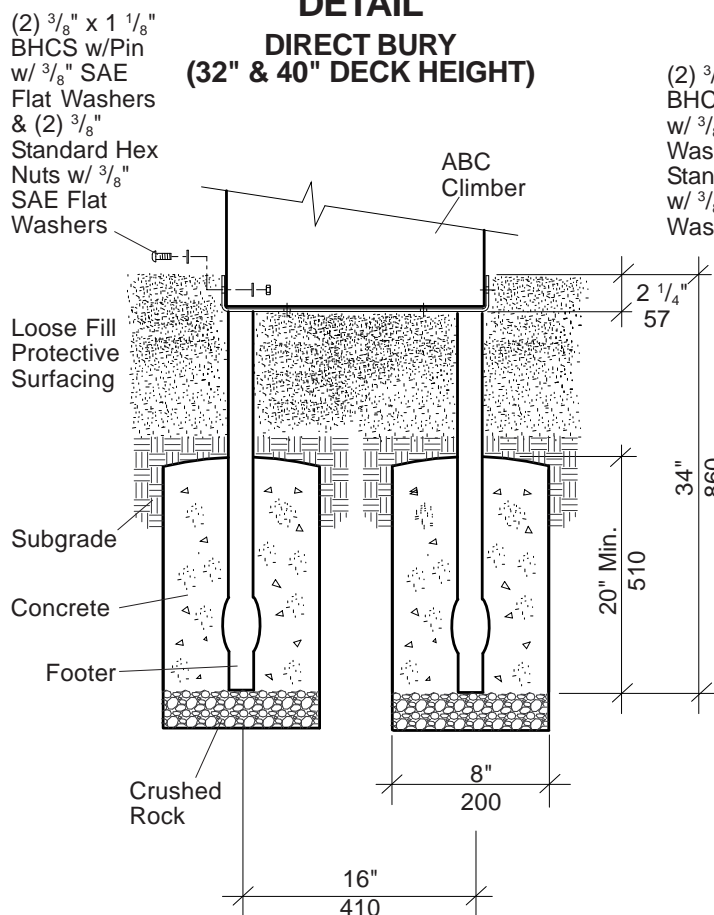
**DETAIL
SURFACE MOUNT
(32" & 40")**



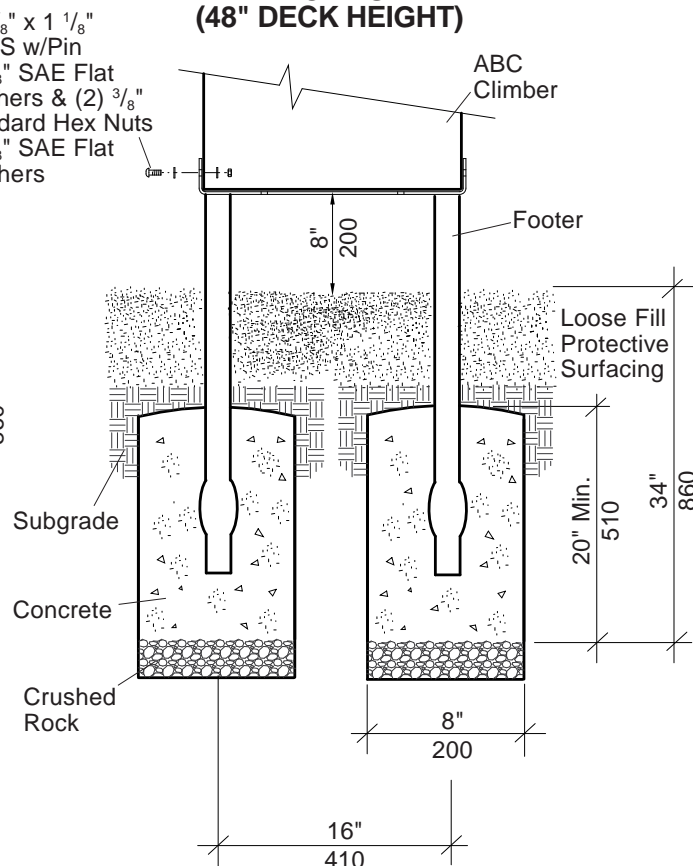
**DETAIL
PLANK ATTACHMENT**



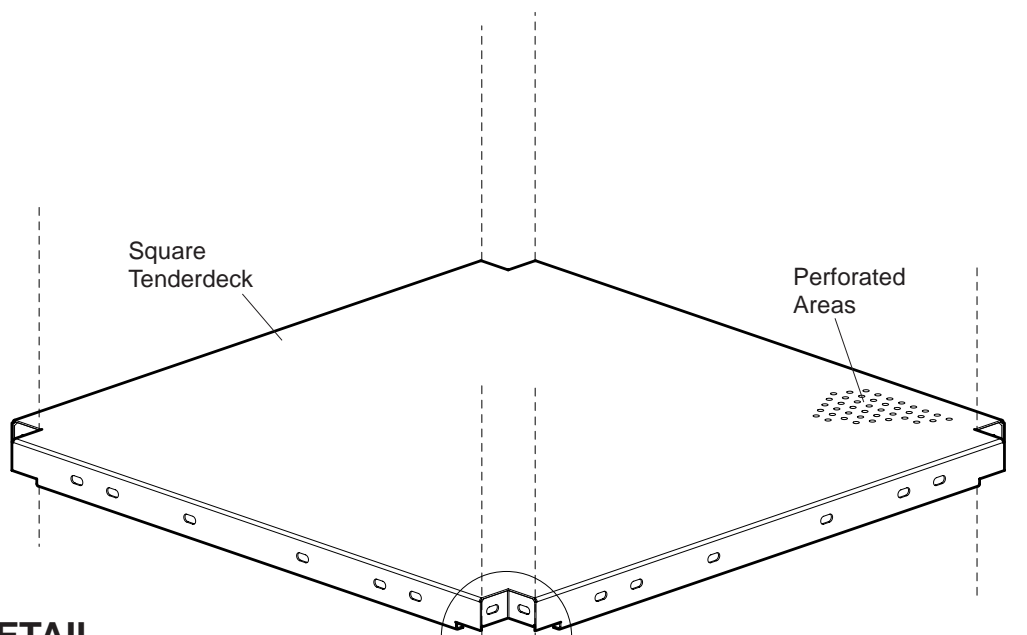
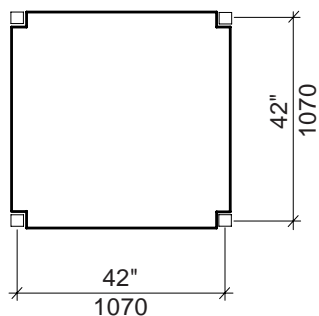
**DETAIL
DIRECT BURY
(32" & 40" DECK HEIGHT)**



**DETAIL
DIRECT BURY
(48" DECK HEIGHT)**

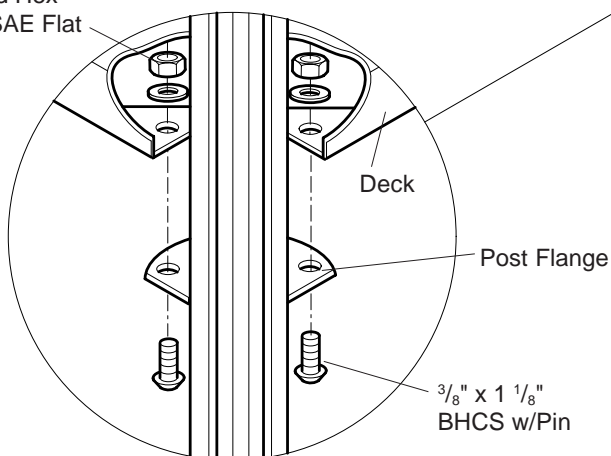


**PLAN VIEW
FOOTING LAYOUT**



**DETAIL
DECK ATTACHMENT**

$\frac{3}{8}$ " Standard Hex
Nut w/ $\frac{3}{8}$ " SAE Flat
Washer



See Detail

Typical
Posts

PlayShaper®

111237 Tenderdeck

Parts List

Part#	Description	Qty.
153298-00	Tenderdeck, Specify Color	1
106695-00	Hardware Package	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	8
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	8
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	8

Specifications

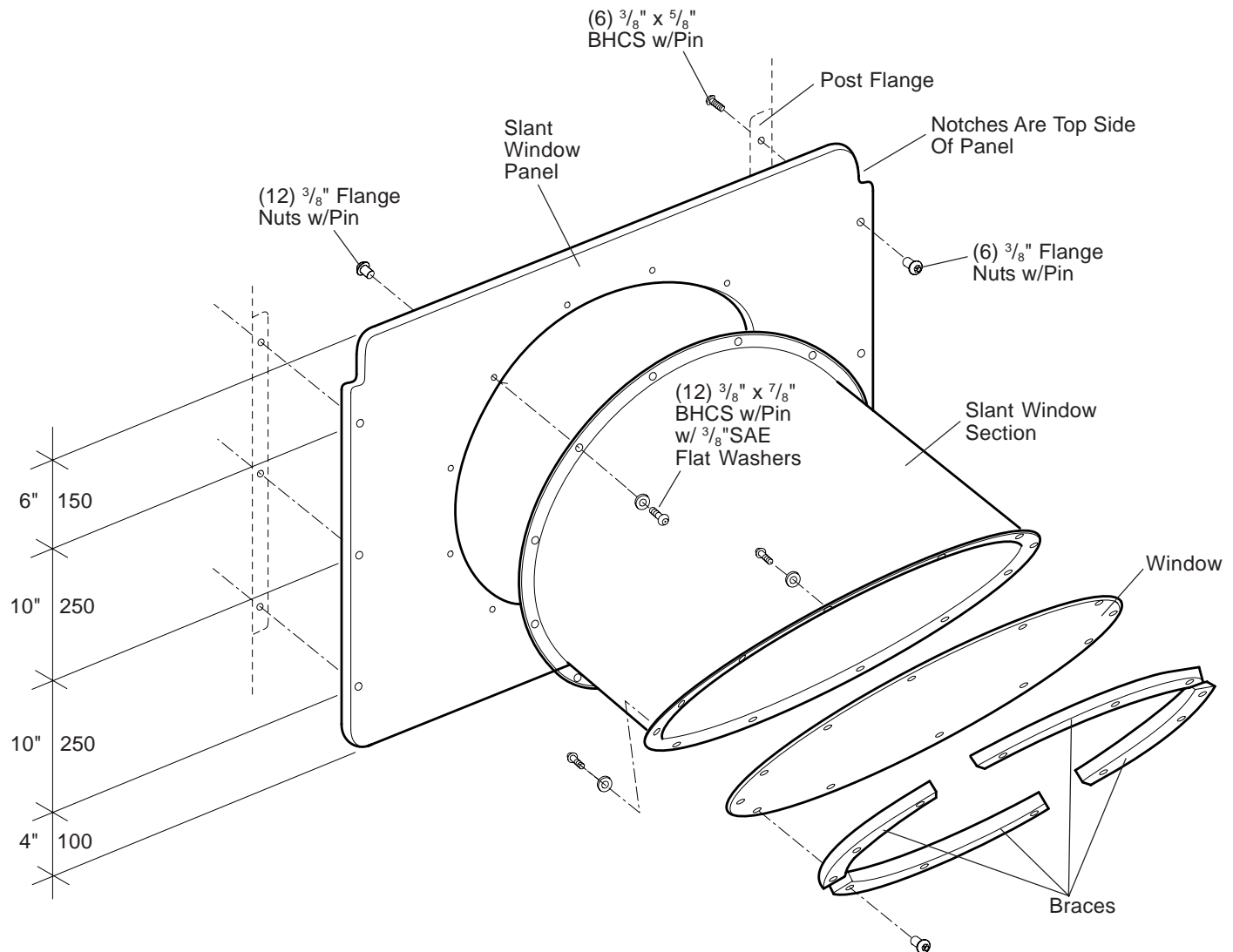
Square Deck: Flange formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is perforated with $\frac{5}{16}$ " diameter holes. Deck face has (6) slot-holes for face mounting components. The finished size measures 2 $\frac{5}{8}$ " x 44 $\frac{3}{8}$ " x 44 $\frac{3}{8}$ ". Finish: TenderTuff™, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx: $\frac{3}{4}$ man hour
Weight: 102 lbs.

Installation Instructions

- 1) Orient posts correctly according to labeled post letters and set in proper footing holes.
- 2) Position deck on post flanges and attach using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers. See Deck Attachment Detail.
- 3) Level deck and plumb posts.
- 4) Install other panels/ components according to their respective installation sheets.
- 5) Pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.
- 6) Install protective surfacing before users are allowed to play on the structure.



PS = Playshaper
LW = Learning Wall - Mounted 10 3/4\"
Above The Playing Surface.

NOTE: The Slant Window Panel is preassembled at the factory. The drawing is exploded for reference only.

PlayShaper®111281/184852 Slant Window Panel

Parts List

Part#	Description	Qty.
108727-01	Slant Window Panel, Specify Color	1
182016-00	Slant Window Assembly, Specify Color	1
108111-00	Slant Window Section, Specify Color	1
108955-00	Top/Bottom Brace, Specify Color	2
108956-00	LH/RH Brace, Specify Color	2
123797-00	Slant Window	1
136319-00	Hardware Package	1
100195-00	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	6
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	12
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	18
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	12

Specifications

Permalene® Panel: Solid color panel measures 39 1/2" wide x 30" high, color specified.

Slant Window Section: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

Window: .177" thick clear polycarbonate.

Braces: Solid color Permalene, to match panel.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

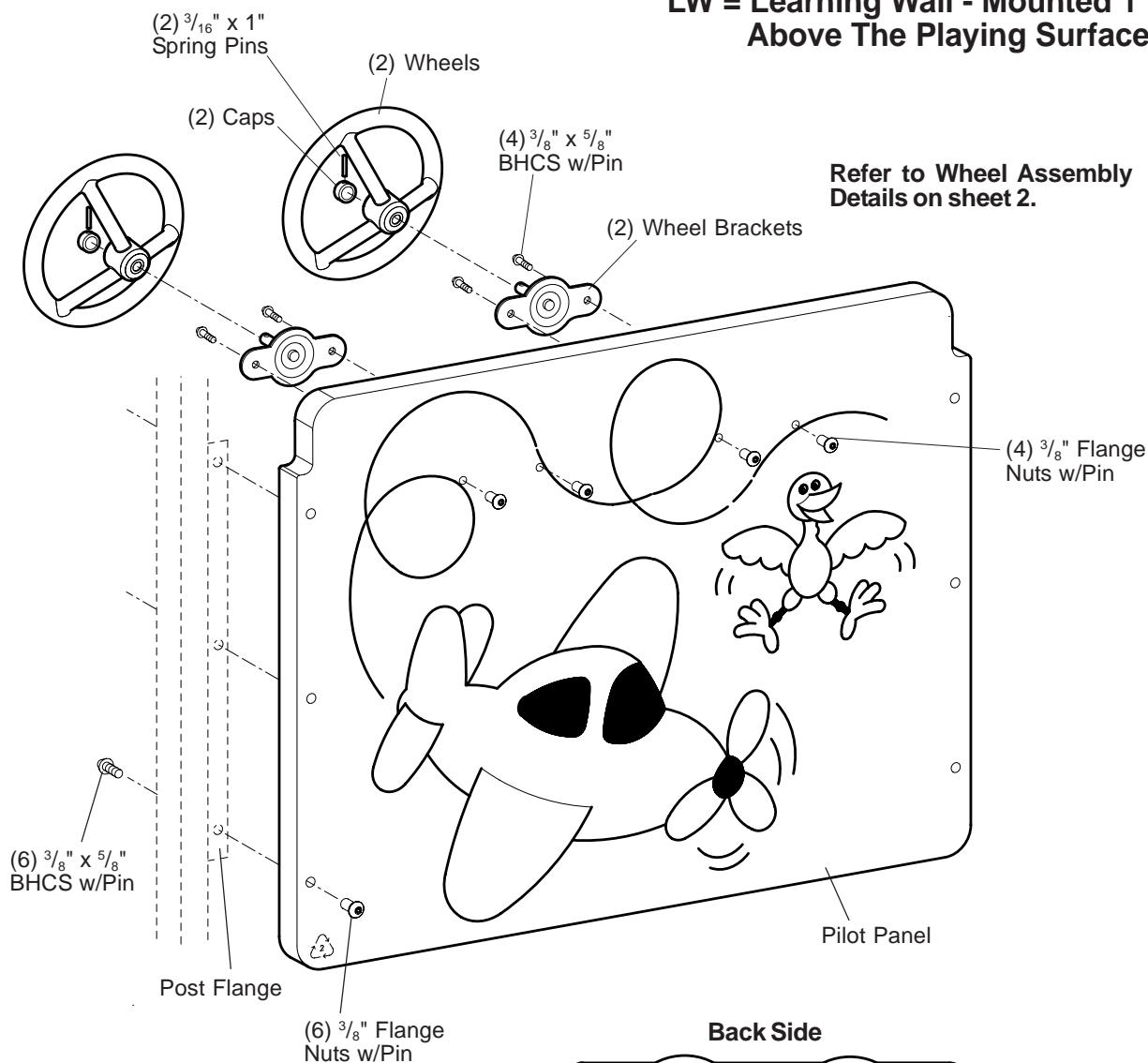
Installation Time: Approx. 1 man hour

Weight: 48 lbs.

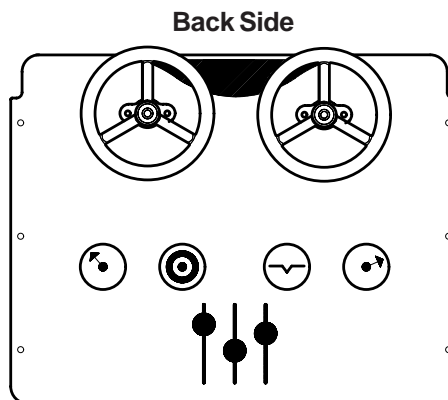
Installation Instructions

- 1) Attach slant window assembly to panel as shown using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " flange nuts w/pin.
- 2) Attach panel assembly to post flanges using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin and $\frac{3}{8}$ " flange nuts w/pin.
- 3) Install protective surfacing before users are allowed to play on the structure.

PS = Playshaper
LW = Learning Wall - Mounted 1 ³/₄ "
Above The Playing Surface.



NOTE: Steering Wheel Infill Panel available. Refer to the Wheel Spec Sheet.



Parts List

Part#	Description	Qty.
127589-00	Pilot Panel, Specify Color	1
108432-00	Wheel, Specify Color	2
127242-00	Steering Wheel Bracket, Specify Color	2
106480-00	Panel Attachment Hardware Package	1
100195-00	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	6
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	6
148626-00	Steering Wheel Hardware Package	2
100195-00	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	4
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	4
118452-00	$\frac{3}{16}$ " x 1" Spring Pin, SST	2
148623-00	Cap, White	2

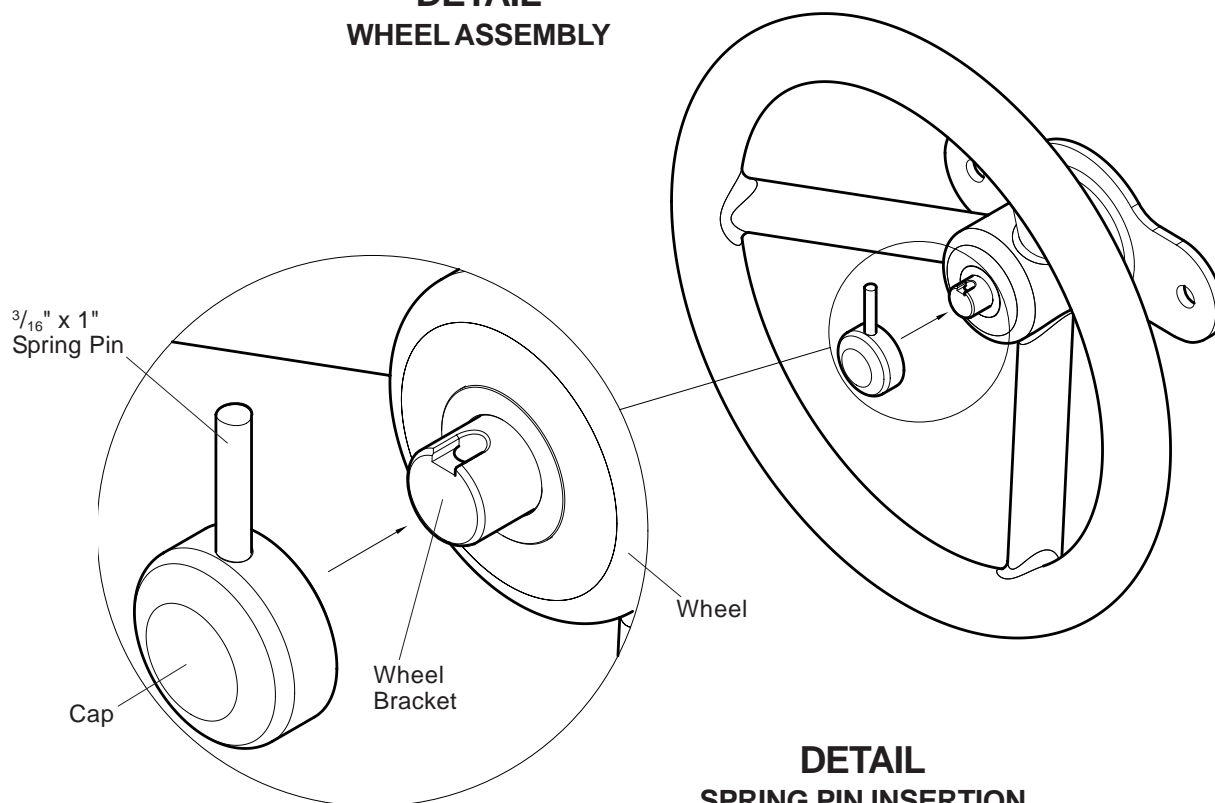
Specifications

Permalene® Panel:	Two color panel measures 39 $\frac{1}{2}$ " wide x 30" high, color specified.
Wheel:	12" diameter cast 319.1 aluminum alloy. Shaft-303 stainless steel. Finish: TenderTuff®, color specified.
Wheel Bracket:	Weldment comprised of formed $\frac{3}{16}$ " plate and $\frac{5}{8}$ " O.D. shaft. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation time:	Approx. $\frac{1}{2}$ man hour
Weight:	42 lbs.

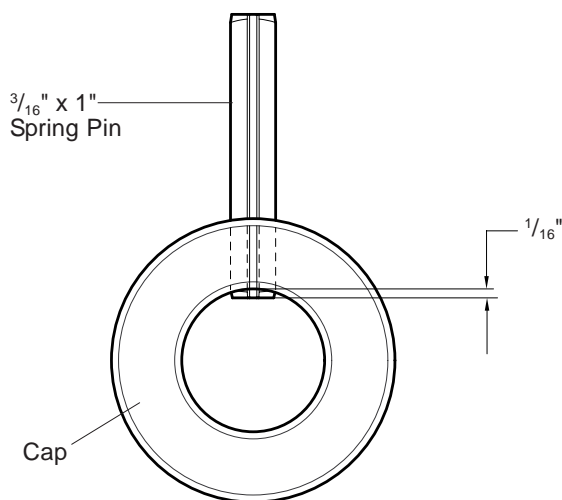
Installation Instructions

- 1) Attach wheel bracket to panel using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin and $\frac{3}{8}$ " flange nuts w/pin. Slide wheel and cap onto wheel bracket shaft and tap $\frac{3}{16}$ " x 1" spring pin through cap and shaft. Refer to Wheel Assembly Details on sheets 1 & 2.
- 2) Attach panel to post flanges using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin and $\frac{3}{8}$ " flange nuts w/pin.
- 3) Install protective surfacing before users are allowed to play on the structure.

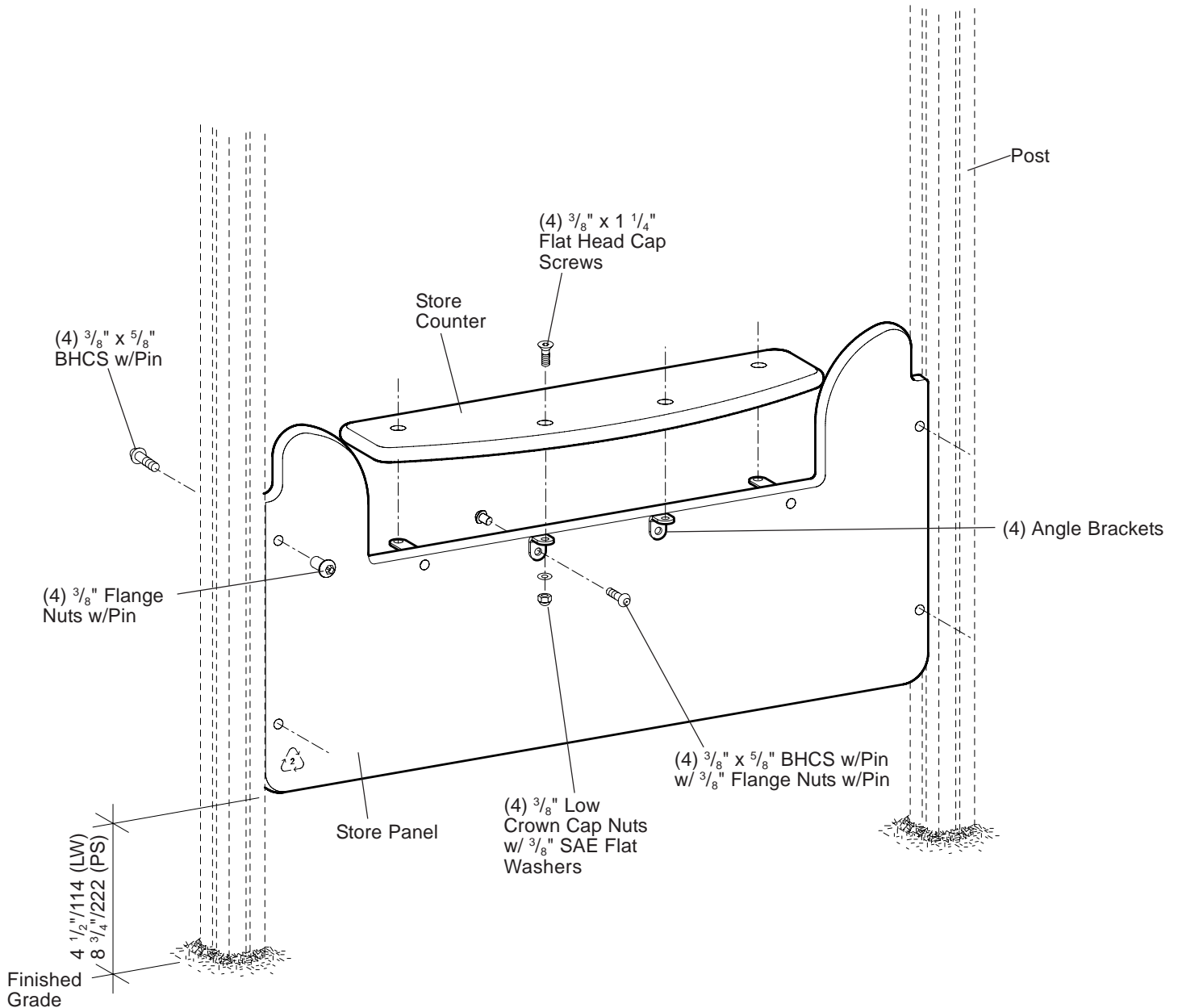
DETAIL **WHEEL ASSEMBLY**



DETAIL **SPRING PIN INSERTION** **(CAP BACK VIEW)**



NOTE: To assist in the alignment of the cap to the wheel bracket shaft, tap spring pin through cap approximately 1/16". Orient spring pin to groove on wheel bracket shaft. Slide cap in place and tap spring pin through cap and shaft until flush.



LW = Learning Wall
PS = PlayShaper

**NOTE: This Panel is used
at ground level only.**

Parts List

Part#	Description	Qty.
144981-00	Storefront Panel, Specify Color	1
144580-00	Store Counter, Specify Color	1
188683-00	Store Counter Top Hardware Package	1
100195-00	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	4
100252-00	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ " Flat Head Cap Screw, SST	4
100349-00	$\frac{3}{8}$ " Low Crown Cap Nut, SST	4
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	4
188664-00	Steel Angle Bracket, Silver	4
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	4
112518-00	Panel Hardware Package	1
100195-00	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	4
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	4

Specifications

Store Panel: Solid color Permalene®, color specified.

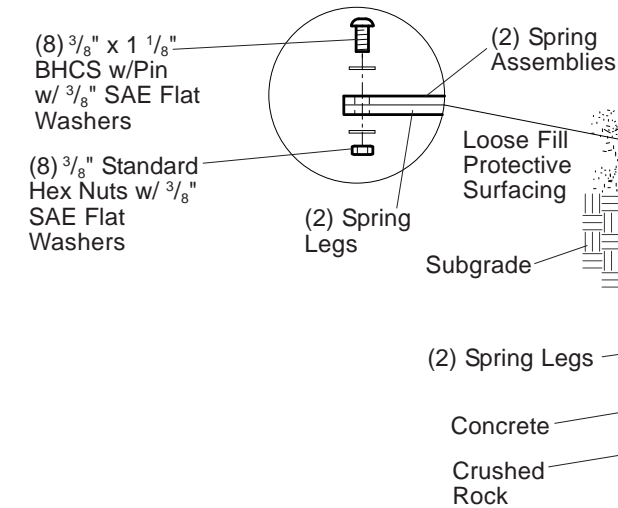
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. $\frac{1}{2}$ man hour
Weight: 19 lbs.

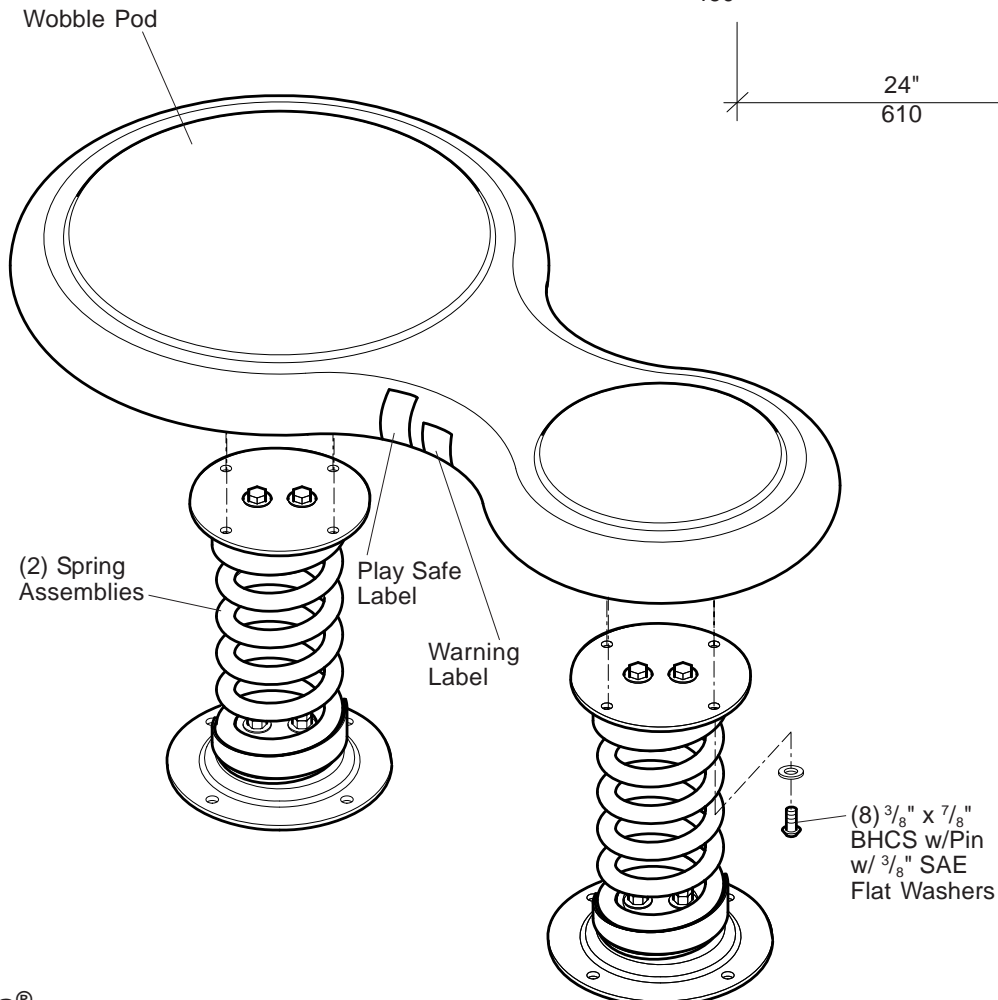
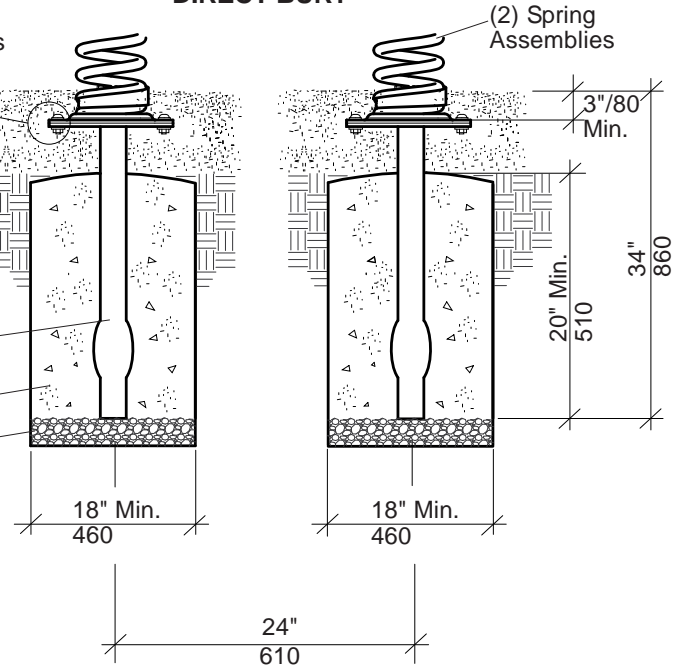
Installation Instructions

- 1) Attach angle brackets to store front panel using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/ pin through angles and $\frac{3}{8}$ " flange nuts w/pin through panel. Attach store counter top to angle brackets using $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " flat head cap screws through counter top and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " SAE flat washers underneath angle.
- 2) Attach panel to post flanges using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin and $\frac{3}{8}$ " flange nuts w/pin.
- 3) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
SPRING LEG ATTACHMENT**



**DETAIL
DIRECT BURY**



Evos®

Kids In Motion

156452 Wobble Pod® Bouncer

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #18462900



Evos® Kids In Motion 156452 Wobble Pod® Bouncer

Parts List

Part#	Description	Qty.
115154-00	Spring Leg, Specify Color	2
154631-00	Wobble Pod, Specify Color	1
156913-00	Spring Assembly w/Plates, Specify Color	2
184632-00	Wobble Pod Hardware Package	1
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	8
100198-00	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	8
100327-00	$\frac{3}{8}$ " Standard Hex Nut, SST	8
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	24
156847-00	Play Safe Label, 5-12 Yrs.	1
183064-00	Warning Label	1

Specifications

Wobble Pod: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

Spring Assembly: Comprised of $5\frac{5}{8}$ " diameter $\frac{13}{16}$ " tempered alloy steel coil, $\frac{1}{4}$ " thick HRPO zinc plated steel, $\frac{1}{4}$ " thick HRPO sheet steel and spring wedge casting made from A-356 T-6 aluminum. Finish: ProShield®, color specified.

Spring Leg: Weldment comprised of $3\frac{1}{2}$ " O.D. RS20 (.120" - .130" Wall) galvanized steel tubing and $\frac{1}{4}$ " x 10" diameter HRPO zinc plated steel mounting plate. ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 2 man hours

Concrete Req.: Approx. 6 cu. ft.

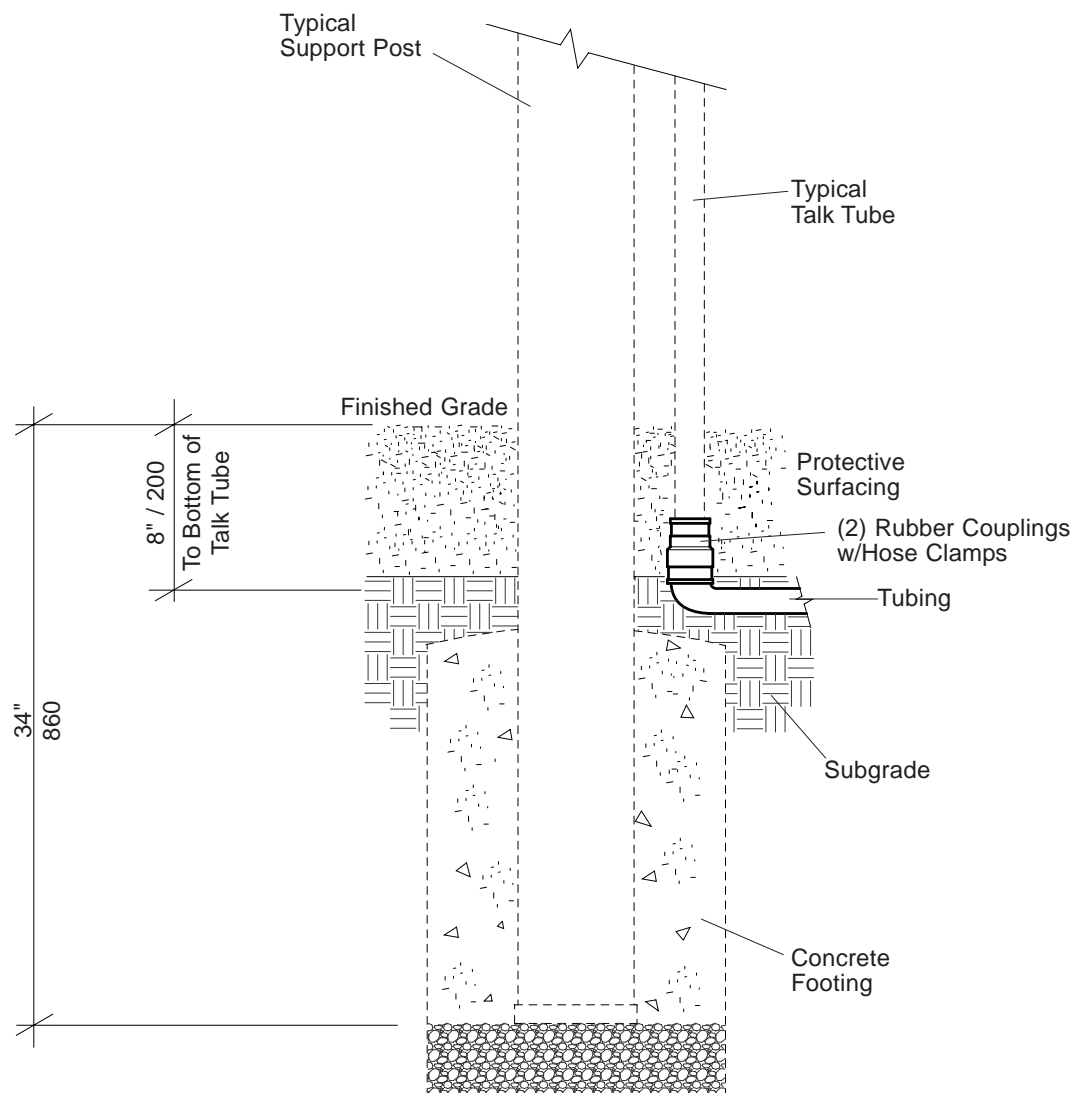
Area Req.: 6' (1,83 m) minimum use zone

Weight: 122 lbs.

Fall Height: 16" (410 mm)

Installation Instructions

- 1) Dig footing holes as shown. Refer to the Site Plan for proper location of Wobble Pods.
- 2) Attach spring assemblies to Wobble Pod, using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers, as shown.
- 3) Attach spring legs to spring assemblies, using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers, as shown. Refer to the Spring Leg Attachment Detail.
- 4) With Wobble Pod propped in plumb position, pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.
- 5) Apply labels as shown.
- 6) Install protective surfacing before users are allowed to play on the component.



Parts List

Part#	Description	Qty
173612-00	1.75" O.D. x 50' Plastic Tube	1
173622-00	Hardware Package	1
173611-00	Rubber Coupling w/SST Hose Clamps	2

Specifications

Talk Tube Hose: Made from HDPE conduit.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

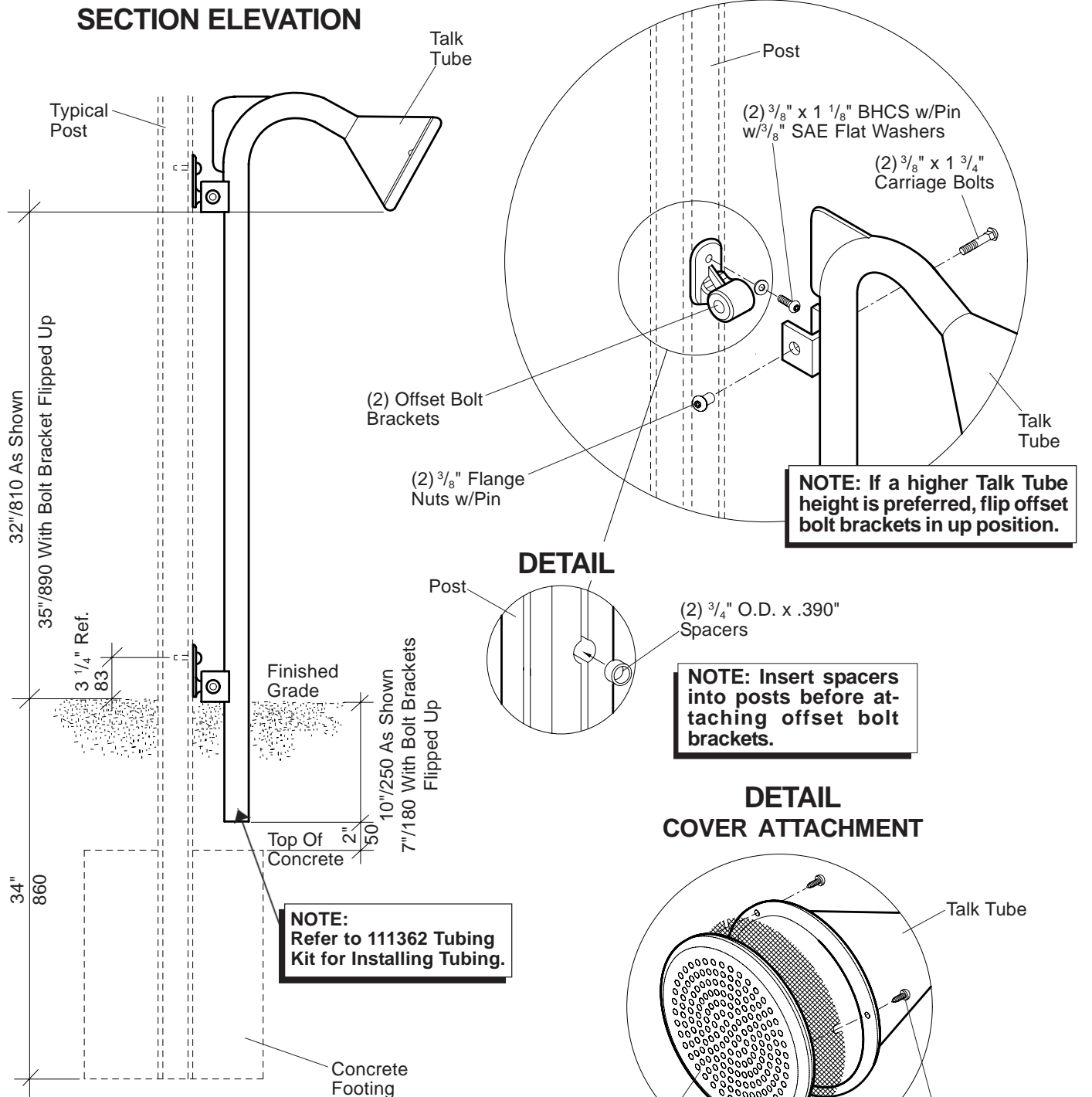
Installation Time: Approx. 1-3 man hours

Weight: 14 lbs.

Installation Instructions

- 1) Dig a trench into subgrade between the two footings for placement of plastic tubing.
- 2) Cut plastic tubing to correct length for your installation, lay plastic tubing flat in trench.
- 3) Connect plastic tubing to talk tubes with rubber couplings with hose clamps, as shown.
- 4) Backfill trench to top of subgrade.
- 5) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
ATTACHMENT TO POST**



Parts List

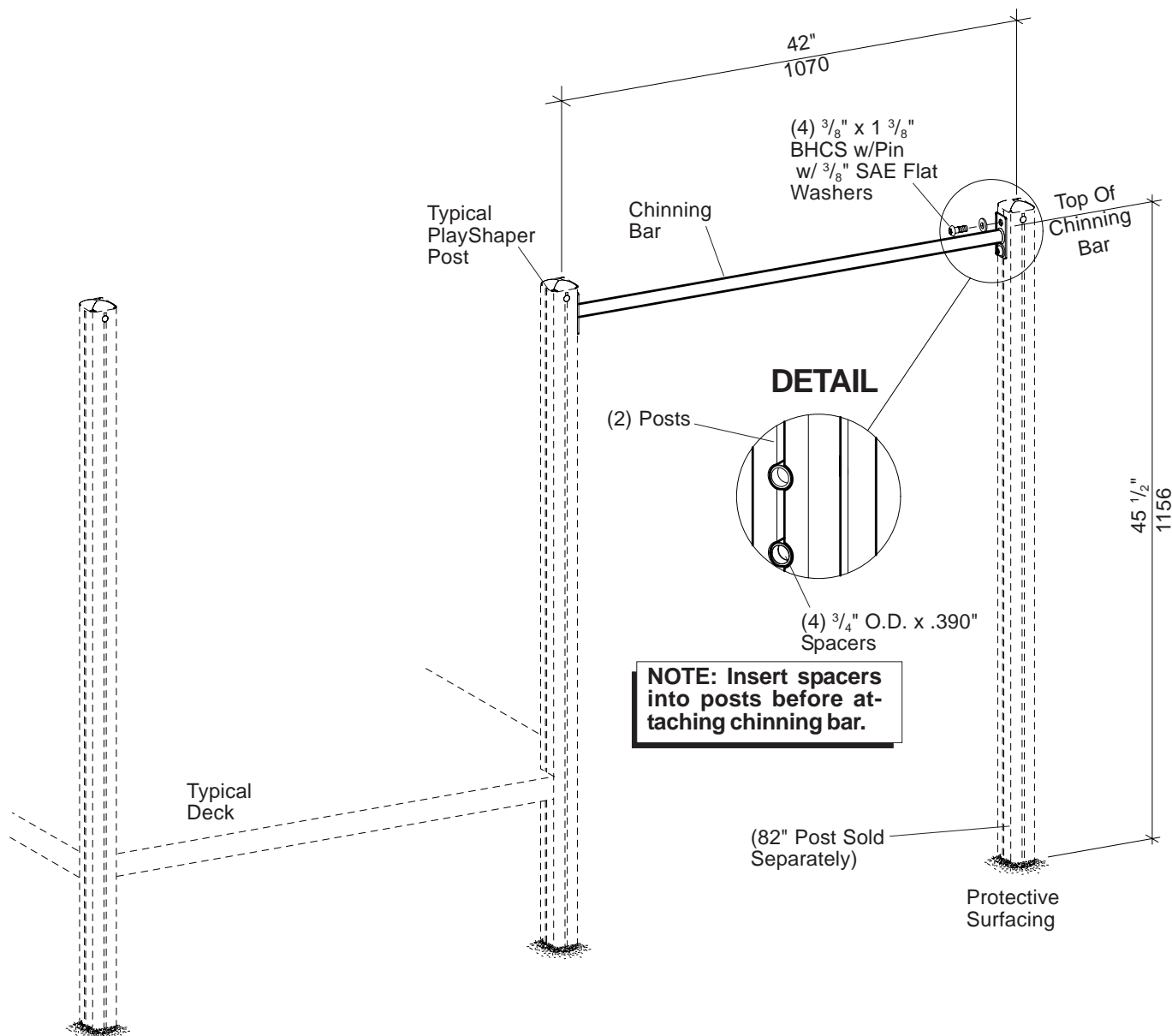
Part#	Description	Qty.
146344-00	Talk Tube, Ground Level, Specify Color	1
113895-00	Offset Bolt Bracket, Specify Color	2
132388-00	Talk Tube Hardware Package	1
100148-00	$\frac{3}{8}$ " x 1 $\frac{3}{4}$ " Carriage Bolt, SST	2
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100353-00	$\frac{3}{8}$ " Flange Nut w/Pin, SST	2
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	2
166868-00	$\frac{3}{4}$ " O.D. x .390" Spacer, Aluminum	2
146168-00	Talk Tube Cover Hardware Package	1
129671-00	#14 x $\frac{1}{2}$ " BHCS Torx, SST	3
145134-00	Talk Tube Cover, Tan	1
127463-00	Bit Hex TPP T-27 (Torx)	1
146528-00	Bug Screen	1

Specifications

Talk Tube:	Weldment comprised of 1.660" O.D. RS20 (.085" - .095") and $\frac{3}{16}$ " HRPO bracket. Finish: ProShield®, color specified.
Talk Tube Cover:	Solid color Permalene®, Tan in color.
Bug Screen:	18 x 16 Weave .011 Ga. charcoal fiberglass screen.
Bolt Bracket:	Cast from 369.1 aluminum alloy. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. $\frac{1}{2}$ man hour per talk tube
Area Req:	6' (1.82 m) minimum use zone
Weight:	15 lbs.

Installation Instructions

- 1) Determine placement of talk tubes. Refer to your plan drawing. Maximum distance apart is 40 feet.
- 2) Dig a trench into subgrade between the two footings for placement of plastic tubing.
- 3) Attach offset bolt brackets to talk tubes using $\frac{3}{8}$ " x 1 $\frac{3}{4}$ " carriage bolts and $\frac{3}{8}$ " flange nuts w/pin. See Attachment To Post Detail.
- 4) Attach talk tube cover and bug screen to talk tube using #14 x $\frac{1}{2}$ " torx screws. Refer to the Cover Attachment Detail.
- 5) **Refer to 111362 Tubing Kit** for connecting tubing.
- 6) Fasten offset bolt brackets with talk tube to posts using $\frac{3}{4}$ " O.D. x .390" spacers and $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers. See Attachment To Post Details.
- 7) Backfill trench to top of subgrade.
- 8) Install protective surfacing before users are allowed to play on the structure.





J:\SPECS\167\16758200.P65

PlayShaper® 139272 Chinning Bar

Parts List

Part#	Description	Qty.
139228-00	Chinning Bar, Specify Color	1
139287-00	Chinning Bar Hardware Package	1
100365-00	³ / ₈ " SAE Flat Washer, SST	4
113027-00	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	4
166868-00	³ / ₄ " O.D. x .390" Spacer, Aluminum	4

Specifications

Chinning Bar: Weldment comprised of 1.125" O.D. x 11 GA (.120") steel tubing and ¹/₄" x 1 ¹/₂" HRPO flat steel. Finish: TenderTuff™, color specified.

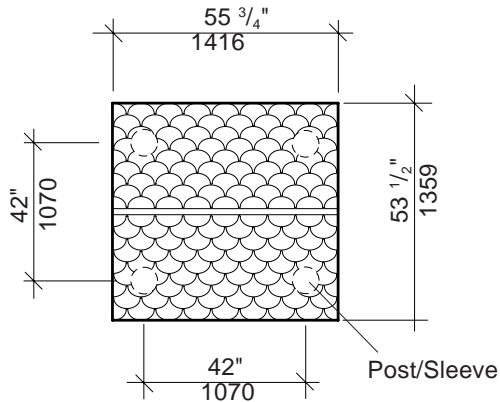
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. ¹/₄ man hour
Weight: 7 lbs.

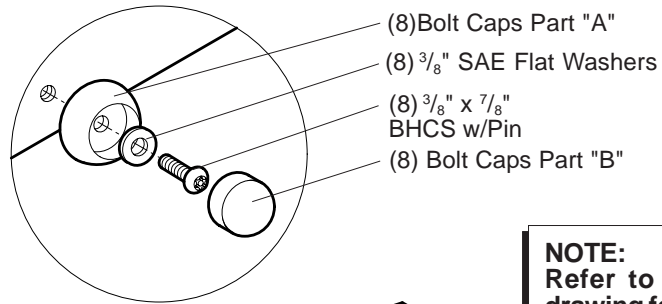
Installation Instructions

- 1) Attach chinning bar to posts using ³/₄" O.D. x .390" spacers and ³/₈" x 1 ³/₈" BHCS w/pin with ³/₈" SAE flat washers. Refer to Detail.
- 2) Install protective surfacing before users are allowed to play on the structure.

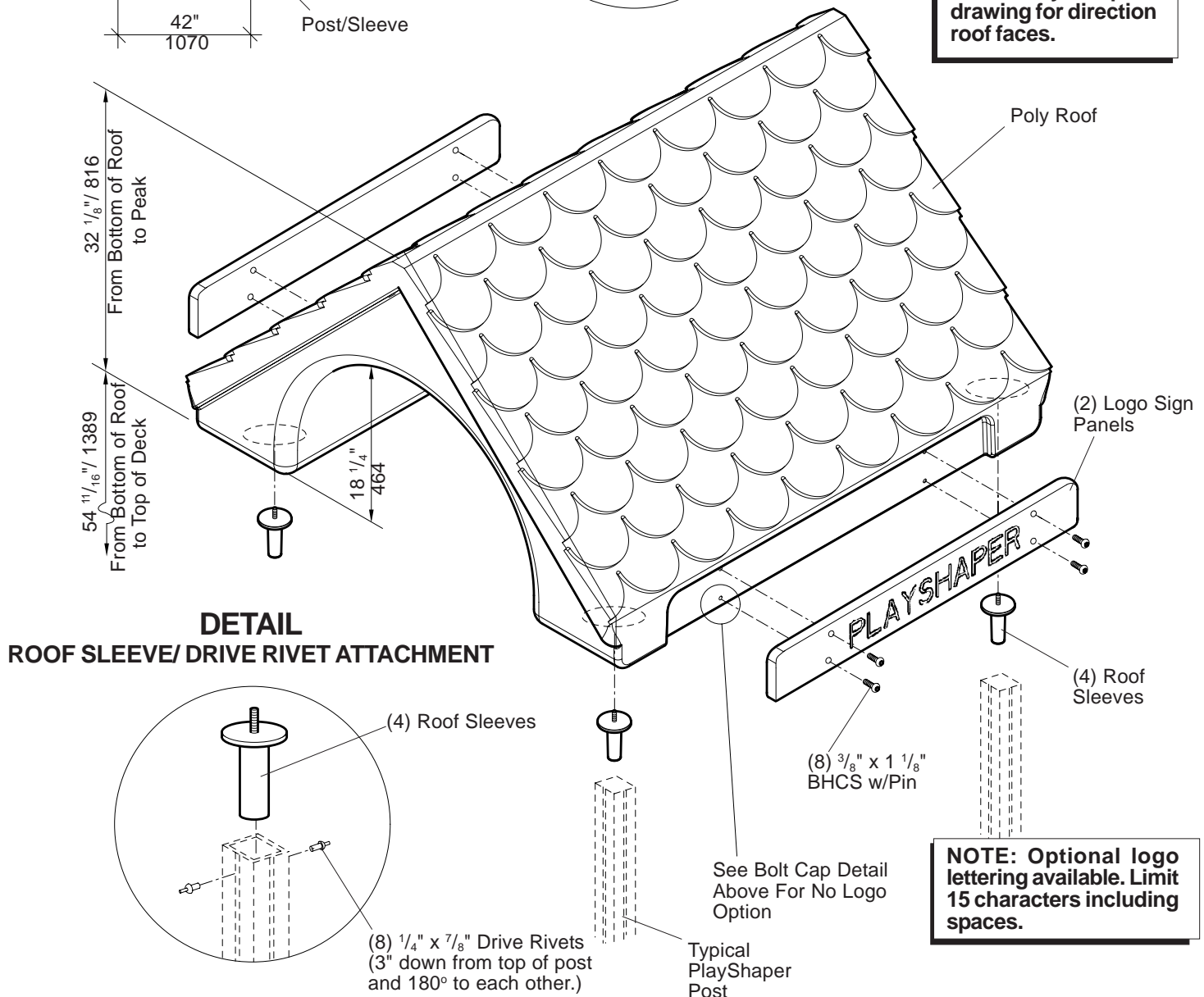
PLAN VIEW



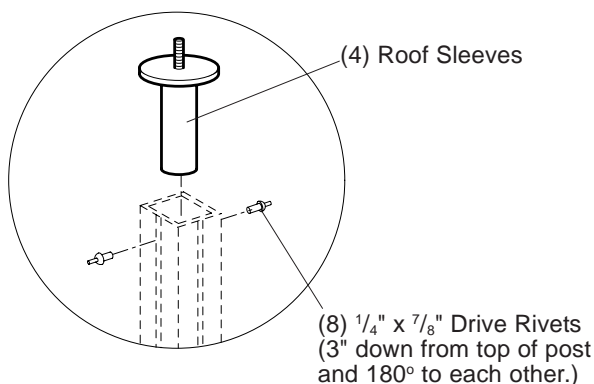
**DETAIL
BOLT CAP ASSEMBLY
(FOR NO LOGO PANEL OPTION)**



NOTE:
Refer to your plan drawing for direction roof faces.



**DETAIL
ROOF SLEEVE/ DRIVE RIVET ATTACHMENT**



PlayShaper®

179225 Square Poly Roof

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #18160500

Parts List

Part#	Description	Qty.
127765-00	Poly Roof, Specify Color	1
127801-00	Roof Logo, Specify Color	2
118175-00	Roof Sleeve, Specify Color	4
128190-00	Roof Hardware Package	1
100196-00	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	8
100365-00	$\frac{3}{8}$ " SAE Flat Washer, SST	8
100613-00	$\frac{1}{4}$ " x $\frac{7}{8}$ " Drive Rivet, AL	8
108184-01	Bolt Cap Part A	8
108185-01	Bolt Cap Part B	8
128189-00	Roof/Logo Hardware Package	1
100198-00	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	8
100613-00	$\frac{1}{4}$ " x $\frac{7}{8}$ " Drive Rivet, AL	8

Specifications

Poly Roof:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Roof Logo:	Two color Permalene® logo measures 41" wide x $5\frac{1}{8}$ " high, color specified.
Roof Sleeve:	Cast from 319 almag. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 2 man hours
Weight:	w/Logo - 112 lbs. w/o Logo - 99 lbs.

Installation Instructions

- 1) Turn roof sleeves onto roof. Refer to the Roof Sleeve/Drive Rivet Attachment Detail.
- 2) **(With Roof Logo)** Attach roof logo to roof using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin, as shown.

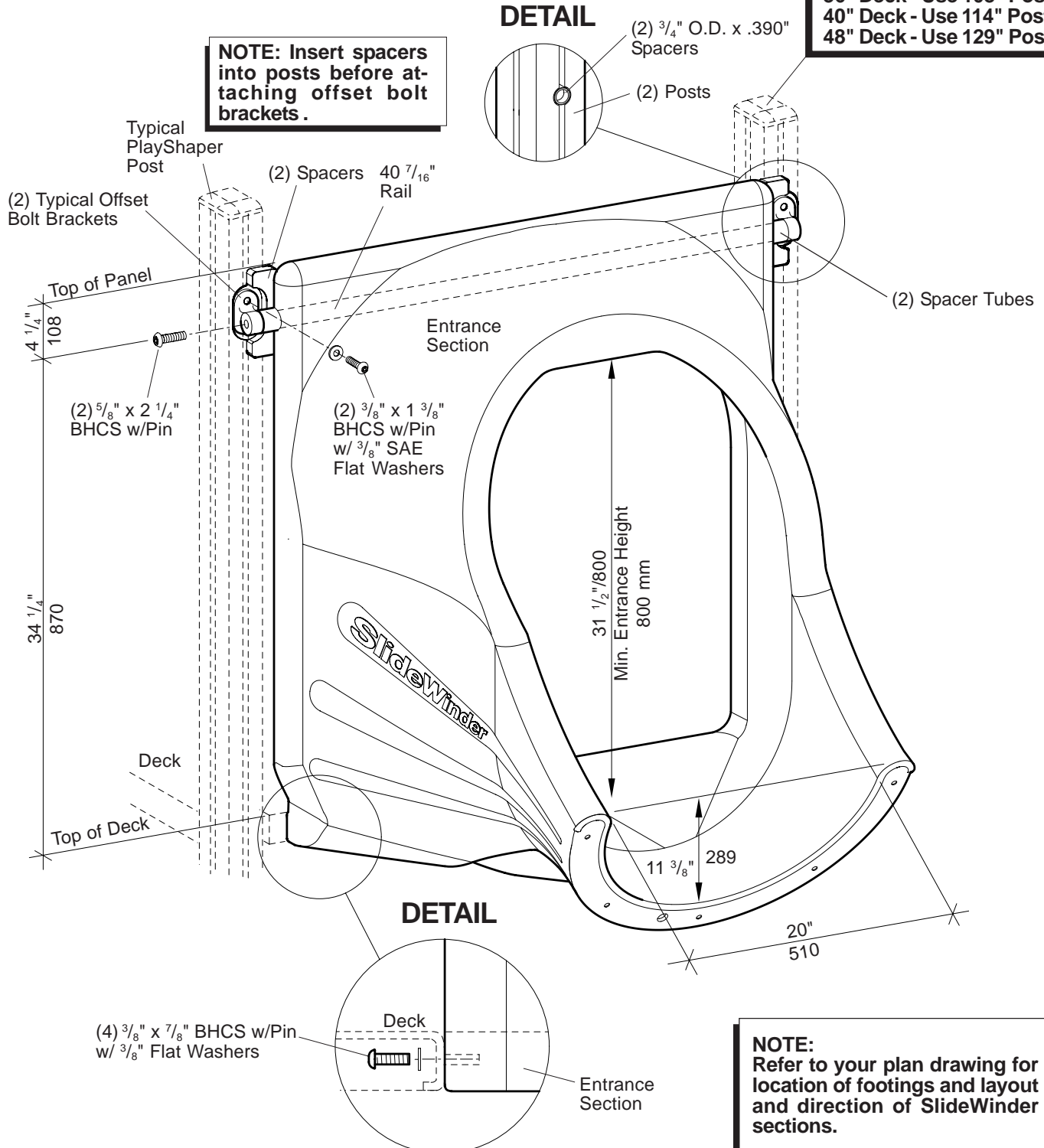
(Without Roof Logo) Attach bolt cap assembly to roof using bolt cap part "A", $\frac{3}{8}$ " SAE flat washer and fasten with $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin. Snap bolt cap part "B" onto bolt cap part "A". Refer to the Bolt Cap Assembly Detail.
- 3) With two people minimum, lift roof into position in the proper direction and insert roof sleeves into posts.
- 4) Drill $\frac{1}{4}$ " holes through roof sleeves using the predrilled $\frac{1}{4}$ " holes in posts as a guide. Insert $\frac{1}{4}$ " x $\frac{7}{8}$ " drive rivets into drilled holes and tap pin in until flush with rivet head. Refer to the Roof Sleeve/Drive Rivet Attachment Detail.
- 5) Install protective surfacing before users are allowed to play on the structure.

ENTRANCE SECTION ATTACHMENT

NOTE:
Non-Standard Posts:
30" Deck - Use 102" Posts
32" Deck - Use 106" Posts
36" Deck - Use 108" Posts
40" Deck - Use 114" Posts
48" Deck - Use 129" Posts

NOTE: Insert spacers into posts before attaching offset bolt brackets.

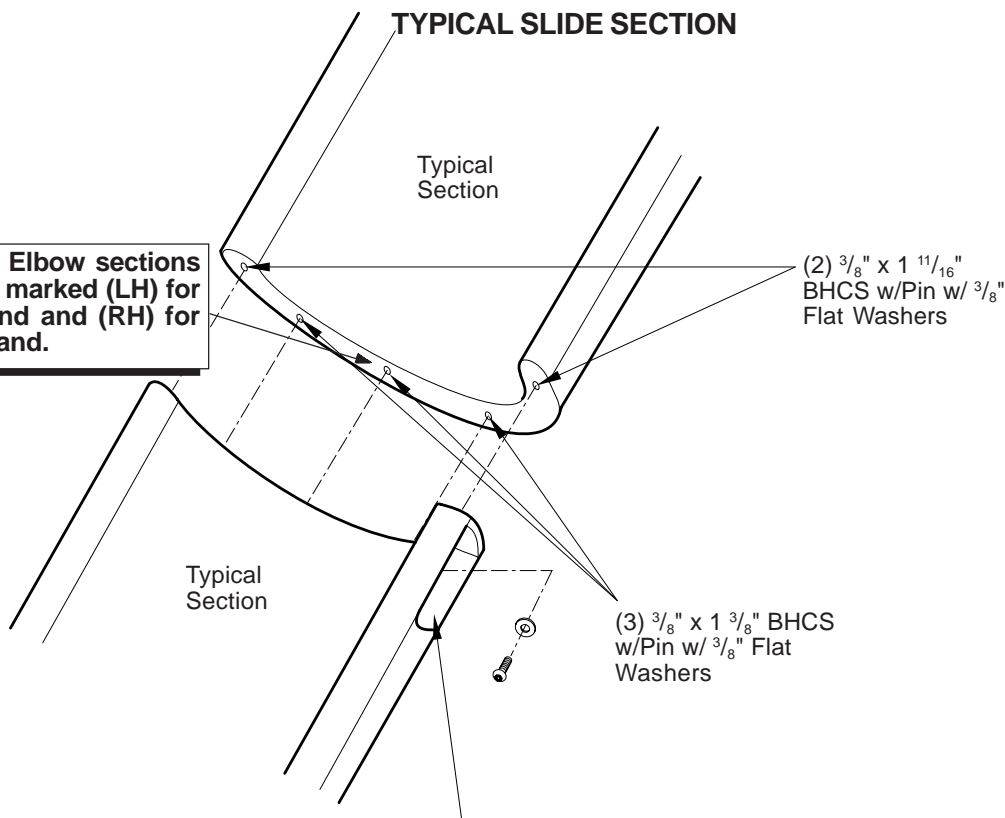
DETAIL



DETAIL

TYPICAL SLIDE SECTION

NOTE: Elbow sections will be marked (LH) for left hand and (RH) for right hand.

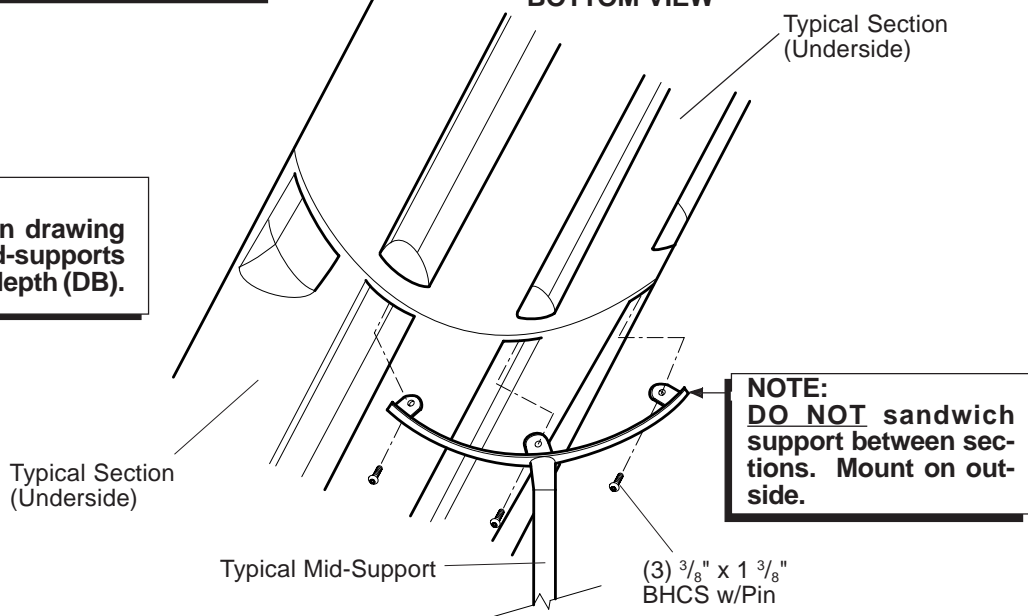


NOTE: Fasten top of slide section with pockets to bottom of slide section without pockets.

DETAIL

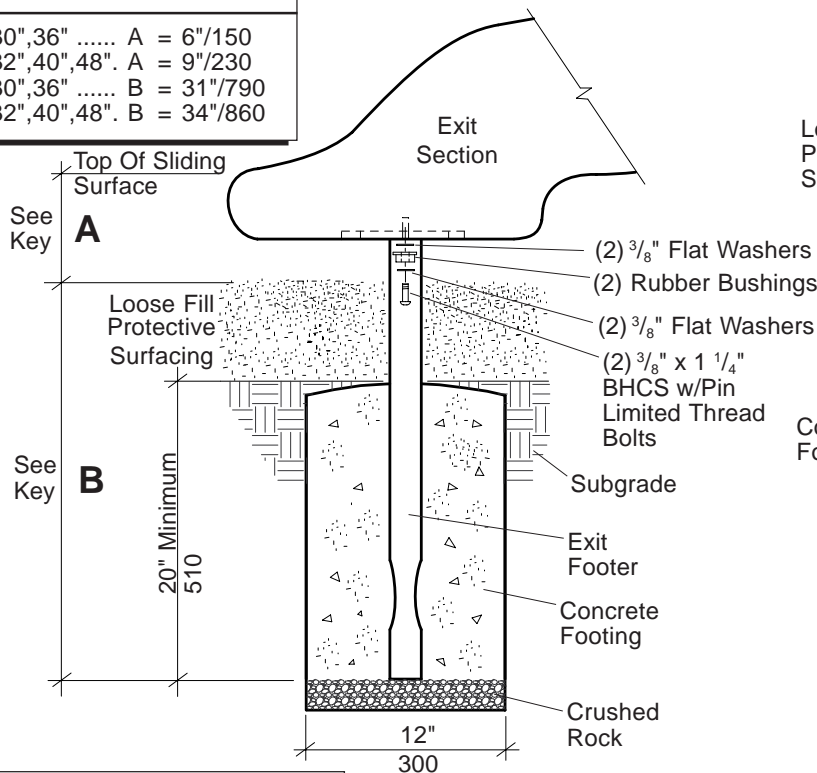
TYPICAL MID-SUPPORT (48"- 96" SLIDES ONLY) BOTTOM VIEW

NOTE: Refer to your plan drawing for location of mid-supports and their footing depth (DB).



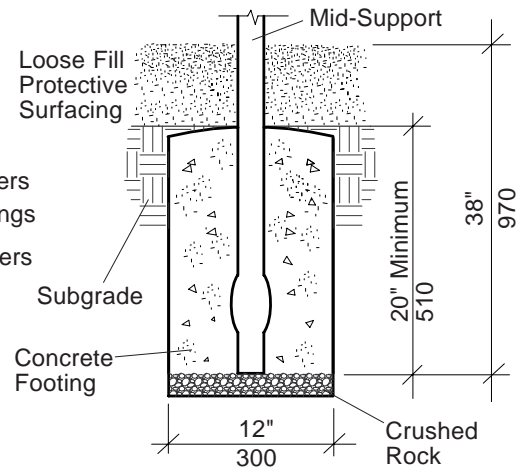
KEY: Deck Hgts	Dimension
30",36"	A = 6"/150
32",40",48"	A = 9"/230
30",36"	B = 31"/790
32",40",48"	B = 34"/860

**DETAIL
DIRECT BURY / EXIT SECTION**

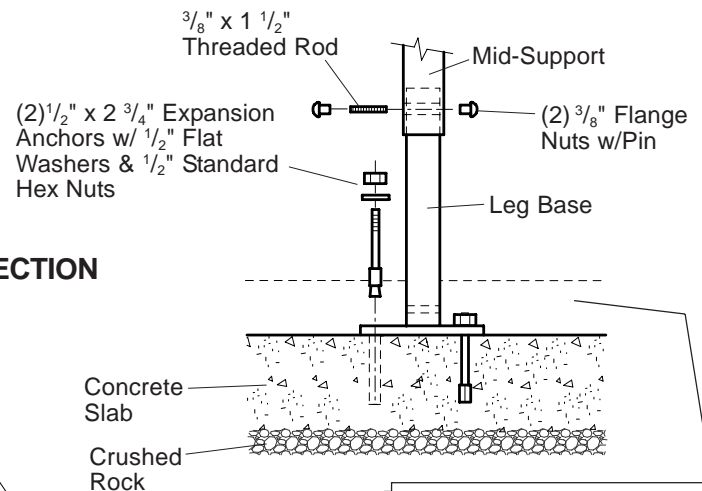


NOTE:
Attach bolts in the center of the footer slots to allow for expansion and contraction. Snug bolts down only, do not overtighten!

**DETAIL
DIRECT BURY / MID-SUPPORT
(48" DECK ONLY)**

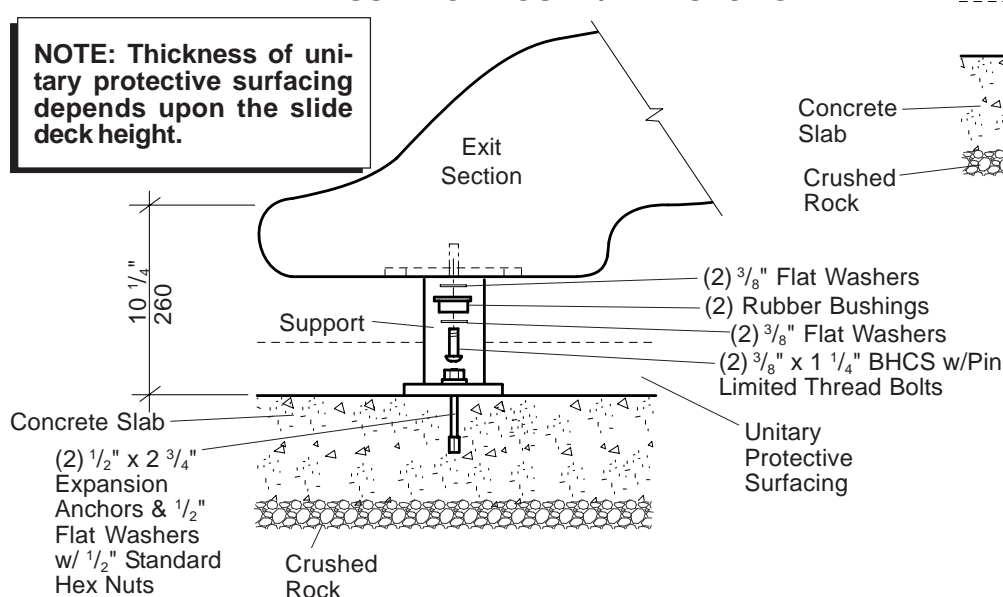


**DETAIL
SURFACE MOUNT / MID-SUPPORTS**



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

**DETAIL
SURFACE MOUNT / EXIT SECTION**



NOTE: Thickness of unitary protective surfacing depends upon the slide deck height.

NOTE: Exit Heights may vary if the protective surfacing is not level. Do not put pressure/tension on the entrance section when adjusting the exit height.

Parts List

Part#	Description	Qty.
124867-00	Right Elbow Section Boxed, Specify Color	*
124868-00	Left Elbow Section Boxed, Specify Color	*
125655-00	Straight Section (15 1/4" Long) Boxed, Specify Color	*
124864-00	Straight Section (30 1/2" Long) Boxed, Specify Color	*
100583-00	40 7/16" Rail, Specify Color	1
113895-00	Offset Bolt Bracket, Specify Color	2
125562-00	Support Base (SM), Specify Color	*
128434-00	66" Mid-Support (DB), Specify Color	*
128079-00	20 3/4" Mid-Support (SM), Specify Color	*
128261-00	Exit Footer (DB), Specify Color	1
128262-00	Exit Footer (SM), Specify Color	1
139980-00	Spacer, Specify Color	2
124876-00	Entrance Section, Specify Color	1
124877-00	Exit Section, Specify Color	1
132443-00	Spacer Tube, Specify Color	2
121371-00	Entrance/Deck Mounting Hardware Package	1
100196-00	3/8" x 7/8" BHCS w/Pin, SST	1
100362-00	3/8" Flat Washer, SST	1
154942-00	SlideWinder Section Hardware Package	*
100362-00	3/8" Flat Washer, SST	*
113027-00	3/8" x 1 3/8" BHCS w/Pin, SST	*
123224-00	3/8" x 1 11/16" BHCS w/Pin, SST	*
140008-00	Rail Attachment Hardware Package	1
113027-00	3/8" x 1 3/8" BHCS w/Pin, SST	2
100203-00	5/8" x 2 1/4" BHCS w/Pin, SST	2
100365-00	3/8" SAE Flat Washer, SST	2
166868-00	3/4" O.D. x .390" Spacer, Aluminum	2
125670-00	Mid-Support Hardware Package (SM)	*
100266-00	1/2" x 2 3/4" Expansion Anchor	*
100322-00	1/2" Standard Hex Nut, SST	*
100353-00	3/8" Flange Nut w/Pin, SST	*
100363-00	1/2" Flat Washer, SST	*
115813-00	3/8" x 1 1/2" Threaded Rod, SST	*
128373-00	Exit Support Hardware Package (DB)	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Limited Thread Bolt, SST	2
100362-00	3/8" Flat Washer, SST	4
111442-00	Rubber Bushing	2
128343-00	Exit Support Hardware Package (SM)	1
100266-00	1/2" x 2 3/4" Expansion Anchor	2
100292-00	3/8" x 1 1/4" BHCS w/Pin Limited Thread Bolt, SST	2
100322-00	1/2" Standard Hex Nut, SST	2
100362-00	3/8" Flat Washer, SST	4
100363-00	1/2" Flat Washer, SST	2
111442-00	Rubber Bushing	2

DB = Direct Bury
SM = Surface Mount
* = Quantity Varies Per Deck Height

Specifications

Slide Sections:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Rail:	1 1/8" O.D. 6005-T5 aluminum extrusion with 5/16" walls. Finish: ProShield®, color specified.
Spacer Tube:	Fabricated from 1.3125 O.D. x 16 Ga. (.065) steel tubing. Finish: ProShield, color specified.
Mid-Support:	Weldment comprised of 1.900" O.D. RS-20 (.090" - .100") galvanized steel tubing and 3/16" x 1 1/4" zinc plated steel strap. Finish: ProShield, color specified.
Support Base (SM):	Weldment comprised of 1.660" O.D. RS-20 (.085" - .095") galvanized steel tubing and 1/4" x 3" x 8" mounting plate. Finish: ProShield, color specified.
Exit Footer:	Weldment comprised of 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and 1/4" x 3" x 7 1/2" mounting plate. Finish: ProShield, color specified.
Spacer:	Solid color Permalene®, color specified.
Offset Bolt Brkt:	Cast from 356-T6 aluminum alloy. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: 30" - 48" Approx. 3 man hours
Concrete Req.: 30"-31" Depth - Approx. 1.3 cu. ft.
34" Depth - Approx. 1.5 cu. ft.
Weight: 30"-32" - 136 lbs.
40" - 149 lbs.
48" - 174 lbs.
Fall Height: Deck Height

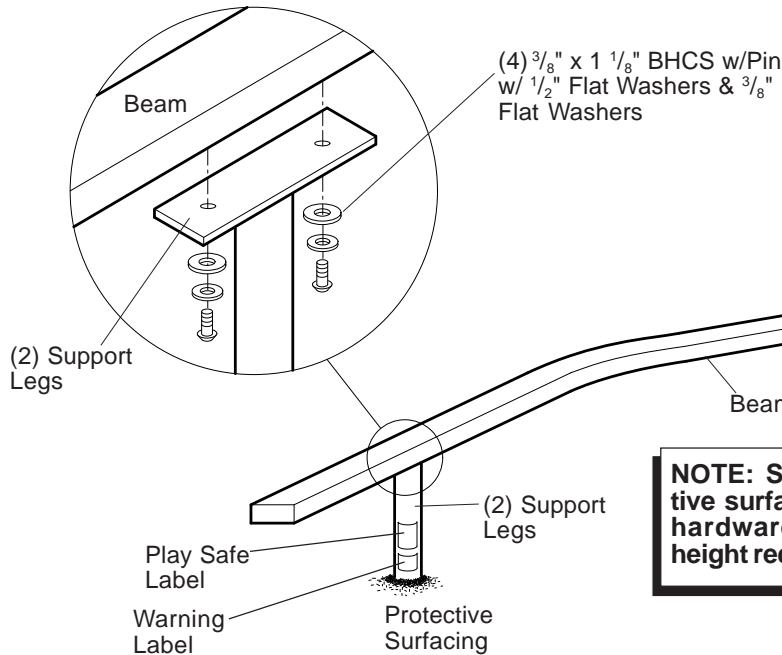
Installation Instructions

- 1) Refer to your plan drawing for location of footings and direction of SlideWinder sections.
- 2) **(Direct Bury)** Dig footing hole or holes spaced as shown, depending upon slide. Refer to the Direct Bury Exit Section and Direct Bury Mid-Support Details.
- 3) Insert 40 7/16" rail into entrance section, place spacer tubes over each end of the 40 7/16" rail, attach offset bolt brackets using 5/8" x 2 1/4" BHCS w/Pin.
- 4) Fasten SlideWinder sections together loosely starting in the middle and working your way to the outside of each section, using 3/8" x 1 3/8" BHCS w/Pin with 3/8" flat washers on the 3 inside holes and 3/8" x 1 11/16" BHCS w/pin with 3/8" flat washers on the 2 outside holes. When all bolts are started, pull the tops flush with each other and tighten. The left elbow section reads (LH) and the right elbow section reads (RH). Attach entrance and exit section last. Refer to the Typical Slide Section Detail.
- 5) **(Direct Bury)** If required attach mid-support, refer to your plan drawing for locations. Attach mid-supports to slide using 3/8" x 1 3/8" BHCS w/pin. Refer to the Typical Mid-Support Detail.

(Surface Mount) If required attach mid-support, refer to your plan drawing for locations. Assemble mid-supports by placing support base inside mid-support and attach using 3/8" x 1 1/2" threaded rod and 3/8" flange nuts w/pin. Refer to the Surface Mount/Mid-Support Detail. Attach mid-supports to slide using 3/8" x 1 3/8" BHCS w/pin. Refer to the Typical Mid-Support Detail.
- 6) Attach exit footer to base of slide using 3/8" x 1 1/4" BHCS w/pin limited thread bolts, 3/8" flat washers, rubber bushings and 3/8" flat washers. **NOTE:** Attach bolts in the center of the slots to allow for expansion and contraction. Snug bolts down only, do not overtighten. See Direct Bury/Exit Section Detail.
- 7) With SlideWinder fully assembled, attach entrance section to the face of the deck using 3/8" x 7/8" BHCS w/pin and 3/8" flat washers.
- 8) Attach offset bolt brackets to posts using 3/4" O.D. x .390" spacers, 3/8" x 1 3/8" BHCS w/pin with 3/8" SAE flat washers and spacers. Refer to the Entrance Section Attachment and Details.
- 9) **(Direct Bury)** With supports plumb pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) Mark anchor bolt locations on concrete slab through holes in anchor plates. Drill 1/2" x 3" deep holes on marks into concrete using a hammer drill and 1/2" masonry bit. Tap 1/2" x 2 3/4" expansion anchors into drilled holes and fasten using 1/2" standard hex nuts with 1/2" flat washers.
- 10) Install protective surfacing before users are allowed to play on the structure.

DETAIL



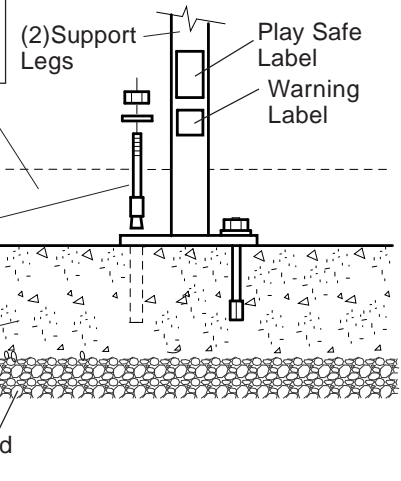
**SECTION
SURFACE MOUNT**

NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

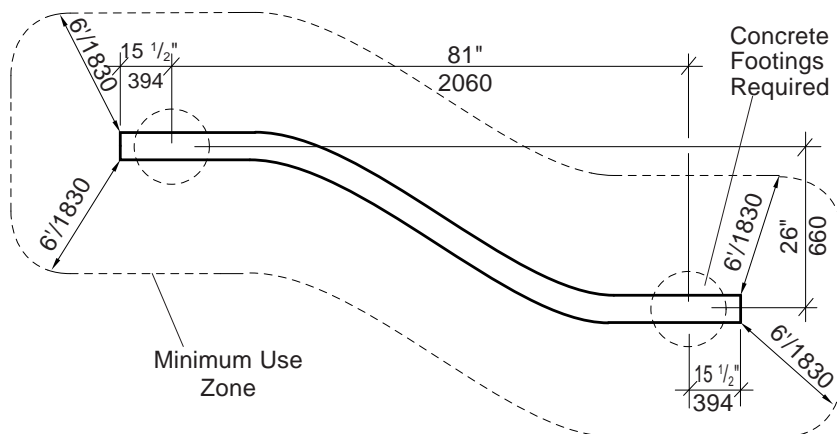
(4) $\frac{1}{2}$ " x $2\frac{3}{4}$ " Expansion Anchors w/ $\frac{1}{2}$ " Flat Washers & $\frac{1}{2}$ " Standard Hex Nuts

Concrete Slab

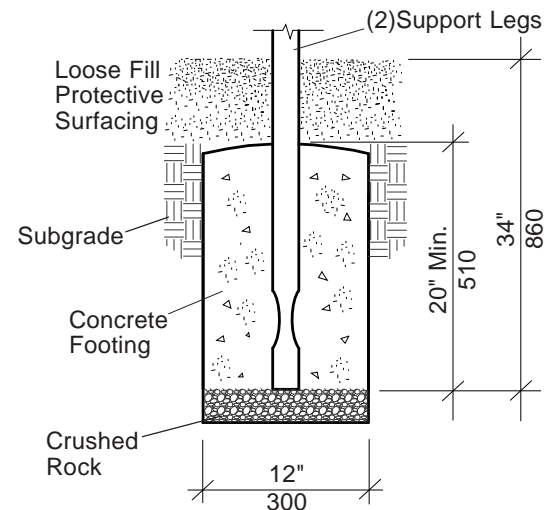
Crushed Rock



PLAN VIEW/ FOOTING LAYOUT



**SECTION
CONCRETE FOOTING**



Parts List

Part#	Description	Qty.
147727-00	Curved Balance Beam, Specify Color	1
113443-00	(DB) Support Leg, Specify Color	2
114954-00	(SM) Support Leg, Specify Color	2
183898-00	Curved Balance Beam Hardware Package	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100362-00	$\frac{3}{8}$ " Flat Washer, SST	4
100363-00	$\frac{1}{2}$ " Flat Washer, SST	4
156846-00	Play Safe Label, 2-12 Yrs.	1
183064-00	Warning Label	1
121348-00	4-Hole (SM) Hardware Package	1
100266-00	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchors	4
100322-00	$\frac{1}{2}$ " Standard Hex Nut, SST	4
100363-00	$\frac{1}{2}$ " Flat Washer, SST	4

DB = Direct Bury

SM = Surface Mount

Specifications

Beam:	Weldment comprised of 1 $\frac{1}{2}$ " x 3" 11 GA (.120") rectangular steel tubing. Finish: TenderTuff®, color specified.
Support Leg:	Weldment comprised of 1.900" O.D. RS-20 (.090" - .100") galvanized steel tubing and $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " mounting plate. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Actual Size:	11 $\frac{1}{2}$ " high x 3" wide x 9'-4" long.
Installation Time:	Approx. 1 $\frac{1}{4}$ man hour
Concrete Req:	DB - Approx. 3 cu. ft.
Area Req:	6' minimum use zone
Weight:	DB - 60 lbs. SM - 58 lbs.

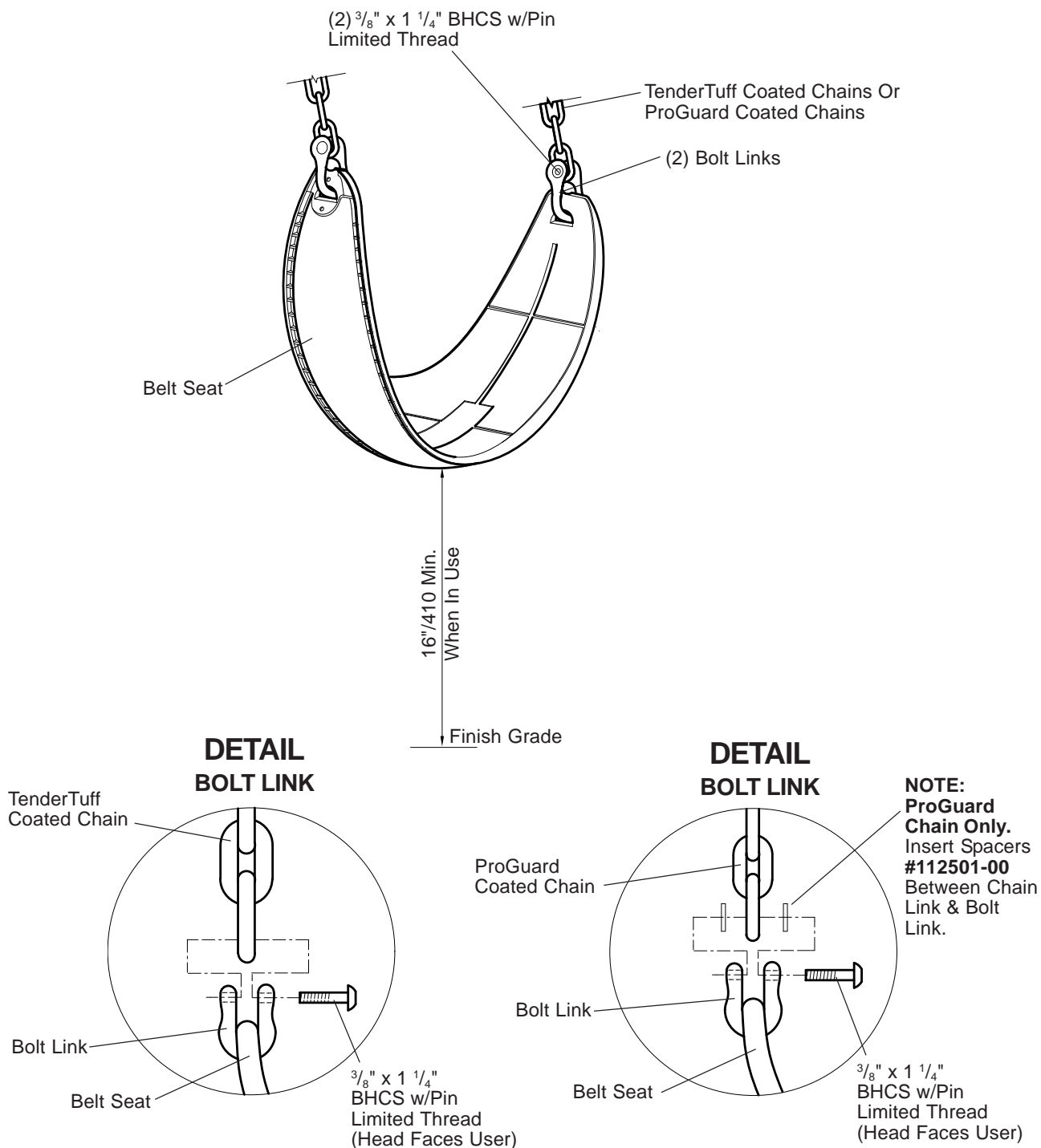
Installation Instructions

Direct Bury

- 1) Dig footings spaced as shown.
- 2) Using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin, $\frac{1}{2}$ " flat washers and $\frac{3}{8}$ " flat washers, fasten support legs to balance beam.
- 3) Place balance beam in holes, block up, plumb and level.
- 4) Pour concrete footings and let concrete cure for a minimum of 72 hours before users are allowed to play on the structure.
- 5) Install protective surfacing before users are allowed to play on the structure.
- 6) Apply labels as shown.

Surface Mount

- 1) Using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin, $\frac{1}{2}$ " flat washers and $\frac{3}{8}$ " flat washers, fasten support legs to balance beam.
- 2) Place balance beam in position and drill through holes in support legs 3" deep into concrete slab using $\frac{1}{2}$ " masonry bit.
- 3) Tap $\frac{1}{2}$ " x 2 $\frac{3}{4}$ " expansion anchors through support leg holes and into concrete. Secure with $\frac{1}{2}$ " flat washers and $\frac{1}{2}$ " standard hex nuts screwed down tight.
- 4) Install protective surfacing before users are allowed to play on the structure.
- 5) Apply labels as shown.



Parts List

Part #	Description	Qty.
8 Ft. High Beam		
128842-00	Belt Swing Seat, Black	1
152050-00	67 ⁷ / ₈ " Chain, TenderTuff, Specify Color	2
174404-00	67 ⁷ / ₈ " Chain, ProGuard	2
132672-00	Bolt Link w/Bolt & Spacers	1
100292-00	³ / ₈ " x 1 ¹ / ₄ " BHCS w/Pin Ltd. Thread, SST	2
138915-00	Bolt Link, SST	2
112501-00	Chain Spacer	4
132635-00	Bolt Link w/Bolt Hardware Package	1
100292-00	³ / ₈ " x 1 ¹ / ₄ " BHCS w/Pin Ltd. Thread, SST	2
138915-00	Bolt Link, SST	2
10 Ft. High Beam		
128842-00	Belt Swing Seat, Black	1
152052-00	90 ¹¹ / ₁₆ " Chain, TenderTuff, Specify Color	2
174884-00	90 ¹¹ / ₁₆ " Chain, ProGuard	2
132672-00	Bolt Link w/Bolt & Spacers	1
100292-00	³ / ₈ " x 1 ¹ / ₄ " BHCS w/Pin Ltd. Thread, SST	2
138915-00	Bolt Link, SST	2
112501-00	Chain Spacer	4
132635-00	Bolt Link w/Bolt Hardware Package	1
100292-00	³ / ₈ " x 1 ¹ / ₄ " BHCS w/Pin Ltd. Thread, SST	2
138915-00	Bolt Link, SST	2

Specifications

Chain Spacer:	Made from white nylon measuring .080" x .785" O.D.
Chain/ProGuard:	Steel ³ / ₁₆ " straight link chain, 800 lb. working load limit. Finish: ProGuard.
Chain/Coated:	Steel ³ / ₁₆ " straight link chain, 800 lb. working load limit. Finish: TenderTuff®, color specified.
Belt Seats:	Molded from U.V. stabilized black EPDM rubber encapsulating a weldment comprised of a 22 GA (.029") spring stainless steel sheet, and (4) .105" thick stainless steel washers. The belt seat elliptical shape measures 7" wide x 26" long x .700" thick.
Bolt Link:	Stainless Steel.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	¹ / ₄ man hour per seat
Weight:	8 lbs. (8 Ft. Beam w/ProGuard Chains) 9 lbs. (8 Ft. Beam w/TenderTuff Chains) 10 lbs. (10 Ft. Beam w/ProGuard Chains) 11 lbs. (10 Ft. Beam w/TenderTuff Chains)

Installation

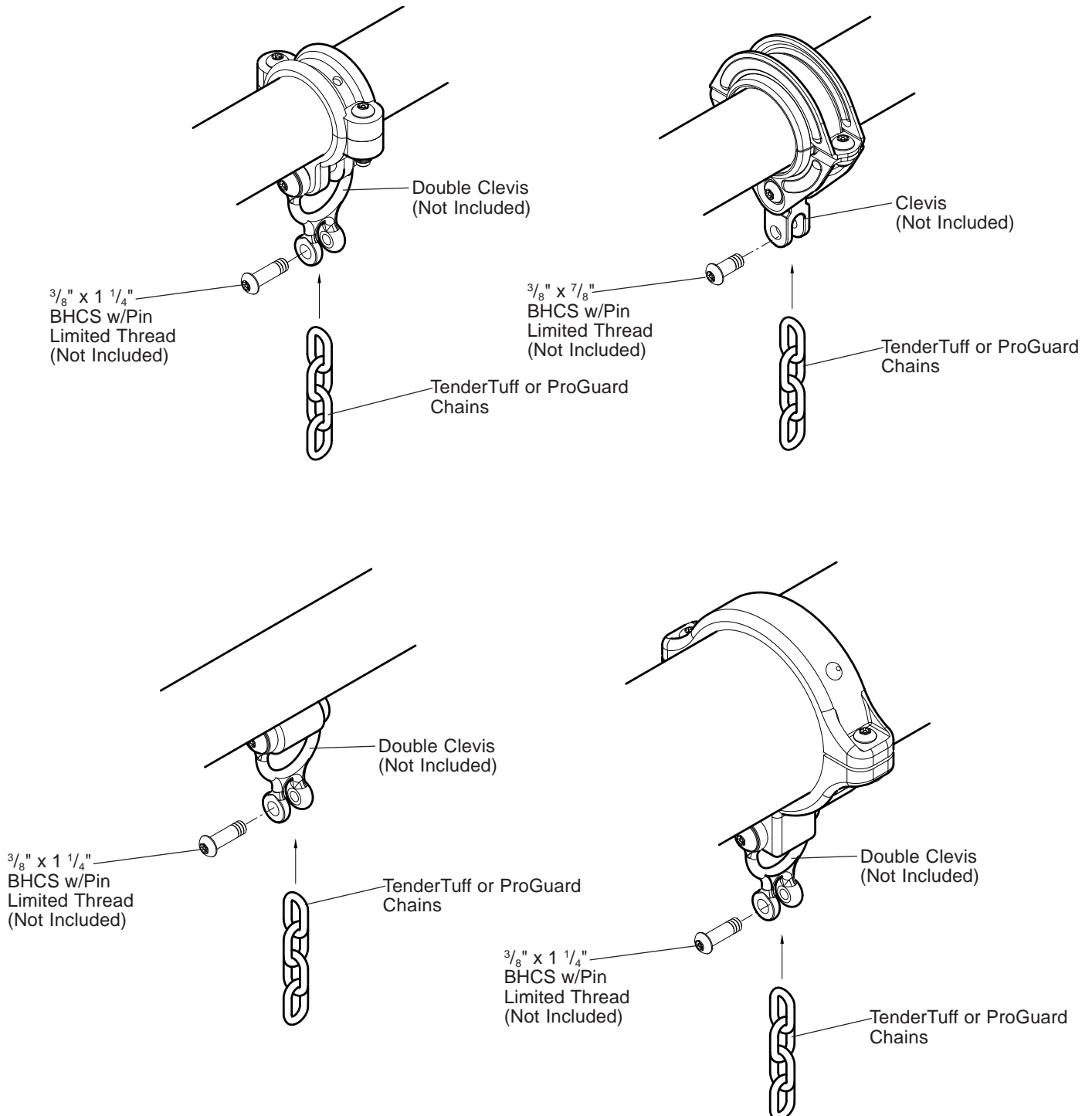
Swing Hangers With Double Clevis

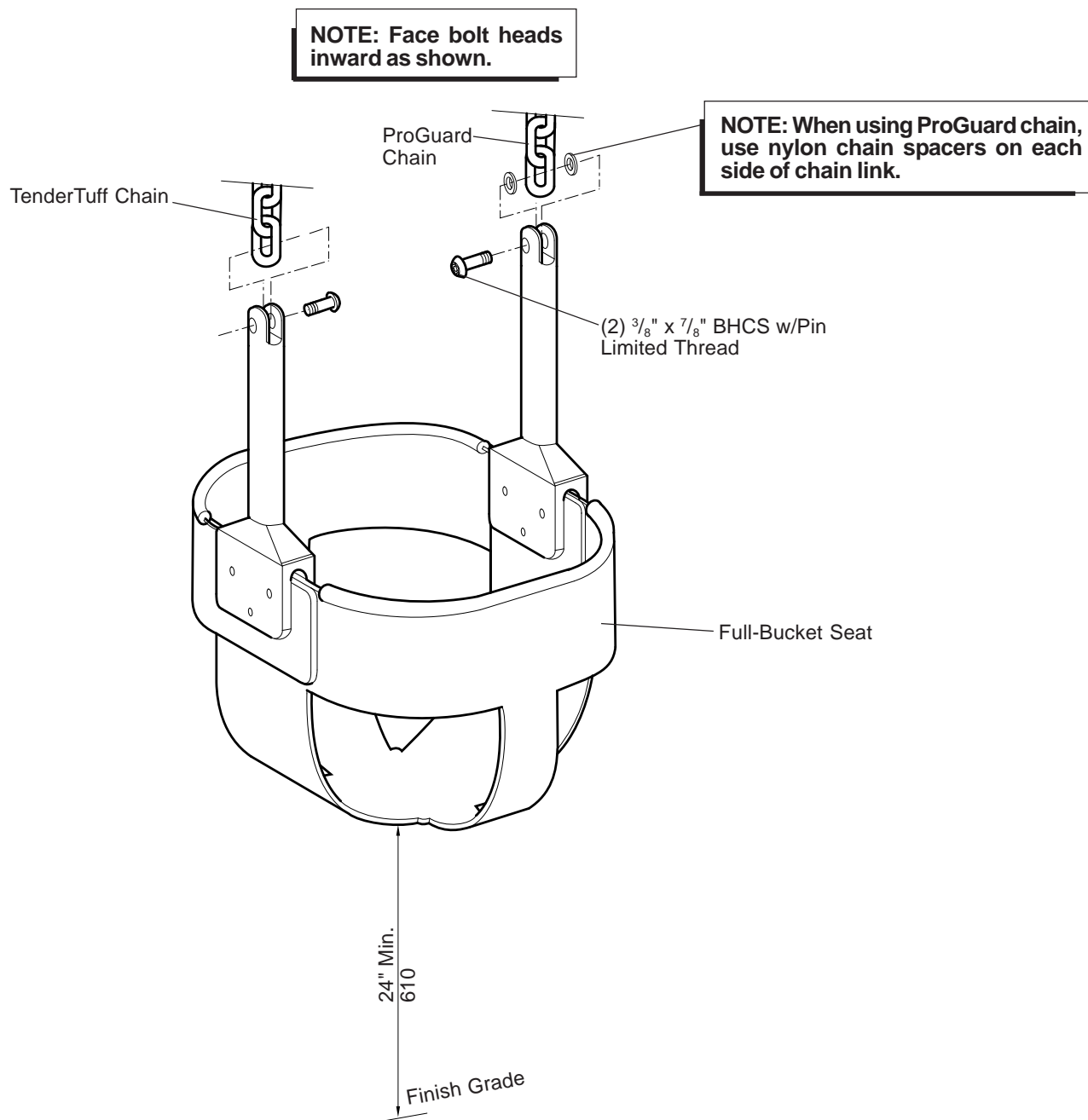
- 1) Attach chains to double clevis using ³/₈" x 1 ¹/₄" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with ³/₈" x 1 ¹/₄" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

Anti-wrap Swing Hangers

- 1) Attach chains to aluminum clevis using ³/₈" x ⁷/₈" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with ³/₈" x 1 ¹/₄" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

SWING HANGER OPTIONS





Parts List

Part#	Description	Qty.
8 Ft. High Beam		
186276-00	Full-Bucket Swing Seat, Black	1
160110-00	52 9/16" Chain, TenderTuff, Specify Color	2
174882-00	52 9/16" Chain, ProGuard	2
138414-00	Bucket Seat Hardware Package	1
100290-00	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	2
112501-00	Chain Spacer (For ProGuard Chains Only)	4
10 Ft. High Beam		
186276-00	Full-Bucket Swing Seat, Black	1
152051-00	76 7/16" Chain, TenderTuff, Specify Color	2
174883-00	76 7/16" Chain, ProGuard	2
138414-00	Bucket Seat Hardware Package	1
100290-00	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	2
112501-00	Chain Spacer (For ProGuard Chains Only)	4
7 Ft. High Beam (Tot)		
186276-00	Full-Bucket Swing Seat, Black	1
152053-00	37 1/2" Chain, TenderTuff, Specify Color	2
175247-00	37 1/2" Chain, ProGuard	2
138414-00	Bucket Seat Hardware Package	1
100290-00	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	2
112501-00	Chain Spacer (For ProGuard Chains Only)	4
75" High Beam (Toddler)		
186276-00	Full-Bucket Swing Seat, Black	1
152016-00	29 7/8" Chain, TenderTuff, Specify Color	2
174881-00	29 7/8" Chain, ProGuard	2
138414-00	Bucket Seat Hardware Package	1
100290-00	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	2
112501-00	Chain Spacer (For ProGuard Chains Only)	4

Specifications

Full-Bucket Seat:	Seat shall be molded of U.V. stabilized, high quality, black rubber, encapsulating a 24 gauge stainless steel reinforcement plate. Handle cast from 356-T6 aluminum alloy with black polyarmor paint finish. Handle attaches to seat with (3) 1/4" x 1 5/16" long stainless steel rivets. The finished size of the full bucket shall be 9" deep x 10 1/2" wide.
Chain/Coated:	Steel 3/16" straight link chain, 800 lb. working load limit. Finish: TenderTuff, color specified.
Chain/ProGuard:	Steel 3/16" straight link chain, 800 lb. working load limit. Finish: ProGuard.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time:	1/4 man hour per seat
Weight:	14 lbs. (8 FT. Beam w/TenderTuff Chain)
	14 lbs. (8 FT. Beam w/ProGuard Chain)
	17 lbs. (10 FT. Beam w/TenderTuff Chain)
	16 lbs. (10 FT. Beam w/ProGuard Chain)
	12 lbs. (7 FT. Beam w/TenderTuff Chain)
	12 lbs. (7 FT. Beam w/ProGuard Chain)
	11 lbs. (75" Beam w/TenderTuff Chain)
	11 lbs. (75" Beam w/ProGuard Chain)

Installation Instructions

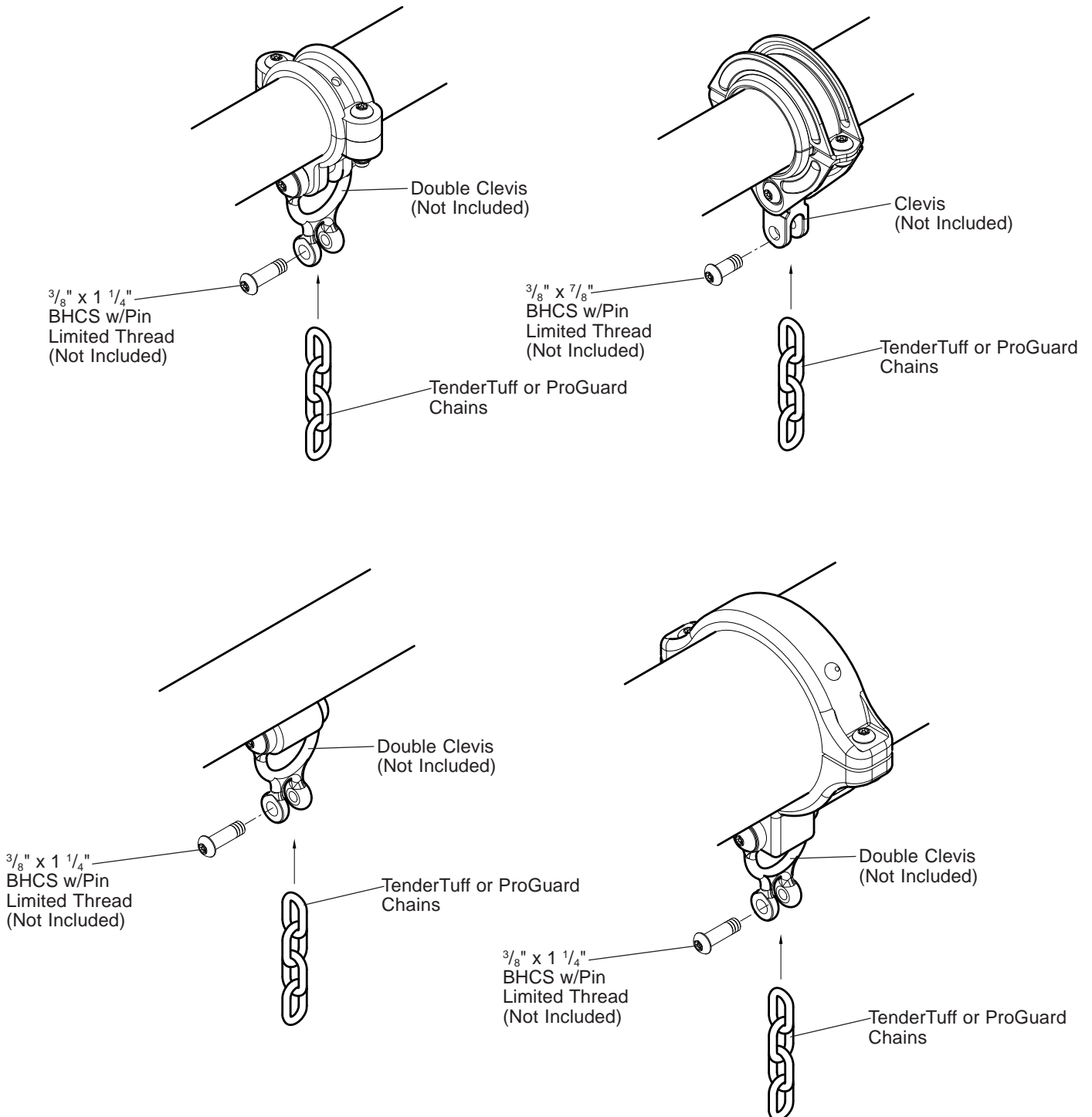
Swing Hangers with Double Clevis

- 1) Attach chains to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread bolts, as shown.
- 2) Attach chains to full-bucket seat using 3/8" x 7/8" BHCS w/pin limited thread bolts. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

Anti-wrap Swing Hangers

- 1) Attach chains to aluminum clevis using 3/8" x 7/8" BHCS w/pin limited thread bolts, as shown.
- 2) Attach chains to full-bucket seat using 3/8" x 7/8" BHCS w/pin limited thread bolts. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

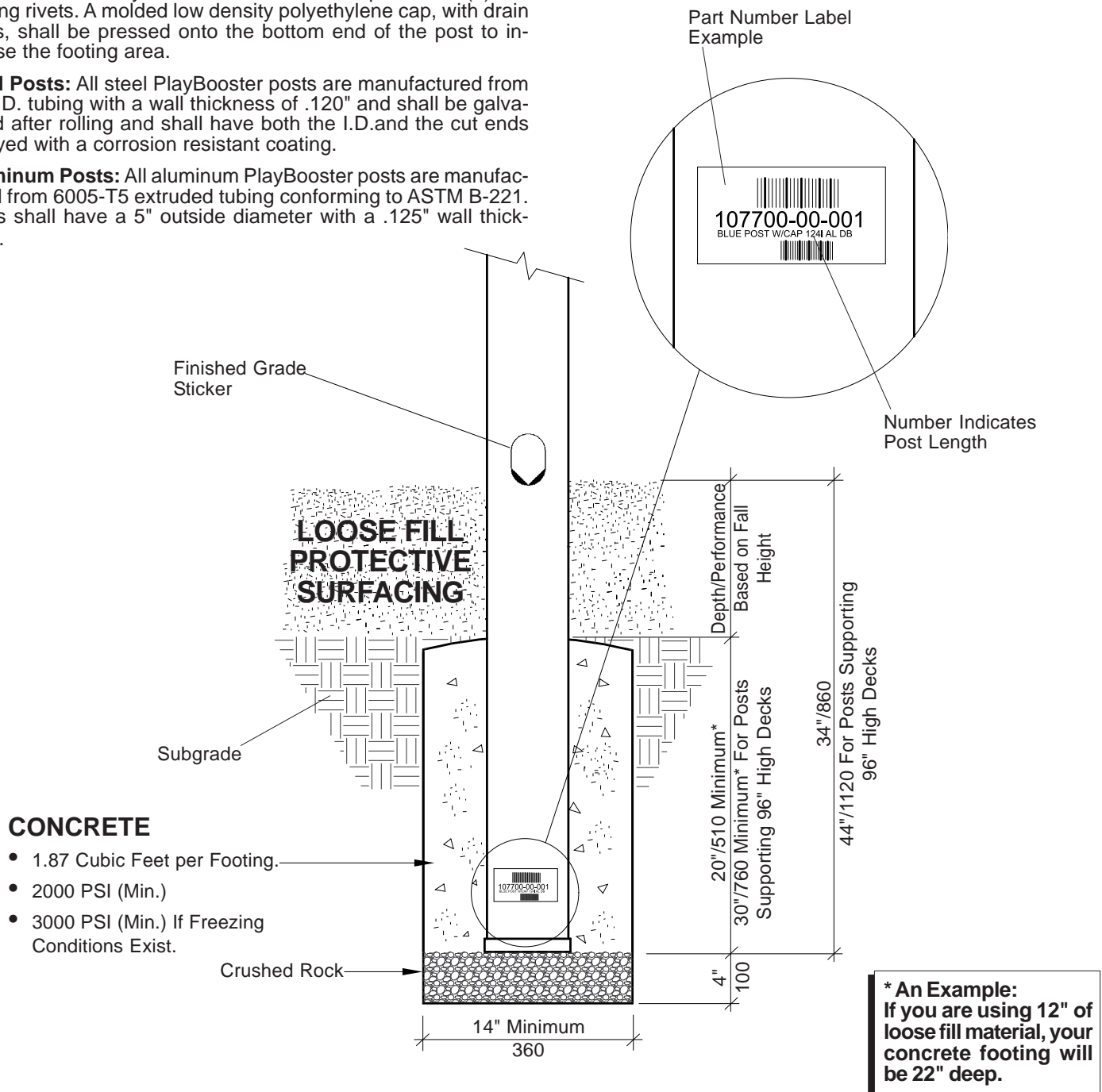
SWING HANGER OPTIONS

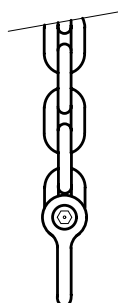
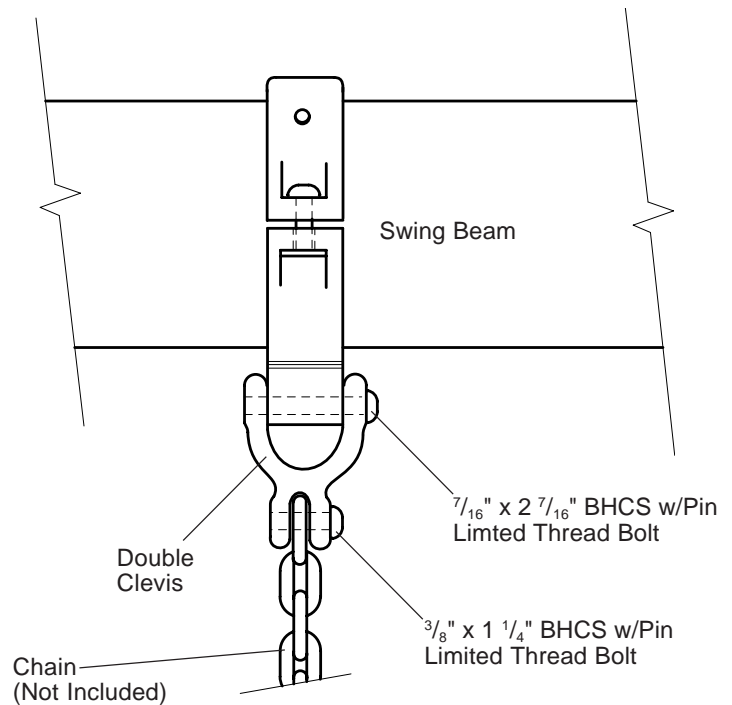
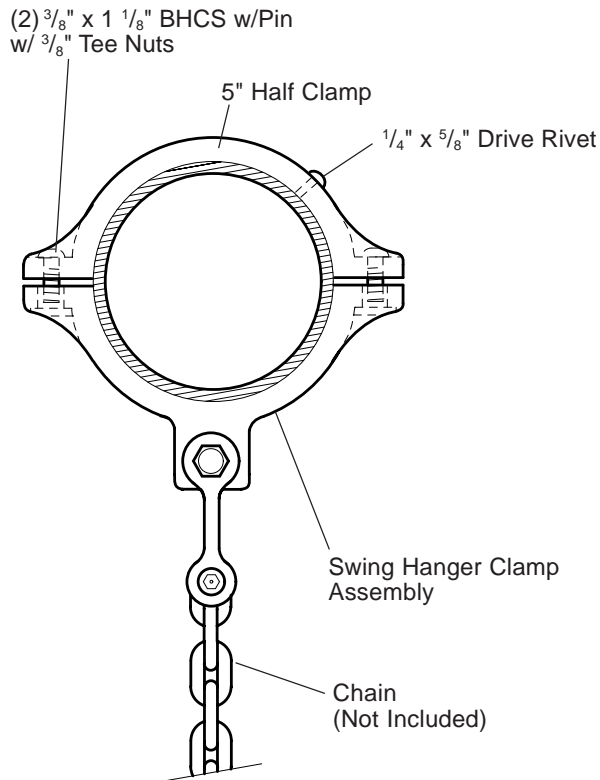


Post Specifications: Post length shall vary depending upon the intended use and shall be a minimum of 42" above the deck height. All posts shall be powdercoated to specified color. All posts shall have a "finished grade marker" positioned on the post identifying the 34" bury line (or 44" bury line for posts for 96" decks) required for correct installation and the top of the loose fill protective surfacing. Top caps for posts shall be aluminum die cast from 369.1 alloy and powdercoated to match the post color. All caps shall be factory installed and secured in place with (3) self sealing rivets. A molded low density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the post to increase the footing area.

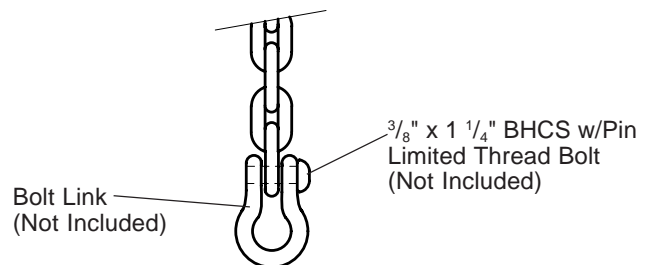
Steel Posts: All steel PlayBooster posts are manufactured from 5" O.D. tubing with a wall thickness of .120" and shall be galvanized after rolling and shall have both the I.D. and the cut ends sprayed with a corrosion resistant coating.

Aluminum Posts: All aluminum PlayBooster posts are manufactured from 6005-T5 extruded tubing conforming to ASTM B-221. Posts shall have a 5" outside diameter with a .125" wall thickness.





NOTE:
Do Not Over-Tighten Limited Thread Bolt! Threads Should Not Protude Past Bolt Link.



NOTE:
Position Bolt Head Inward Facing User.

Swings

111418 Swing Hanger, Belt Swing

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

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Document #18379700

Parts List

Part#	Description	Qty.
105327-01	5" Half Clamp, Specify Color	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	1
100292-00	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/Pin Ltd. Thread Bolt, SST	1
121291-00	Swing Hanger Clamp Assy. Specify Color	1
121289-00	Swing Hanger Clamp, Specify Color	1
127068-00	$\frac{7}{16}$ " x 2 $\frac{7}{16}$ " BHCS w/Pin Ltd. Thread Bolt, SST..	1
138917-00	Swing Hanger Double Clevis SST	1
100667-00	Oilite Bushing	1

Specifications

Hanger Clamp

Assembly: Cast aluminum. Finish: ProShield®, color specified.

Double Clevis: Stainless Steel.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

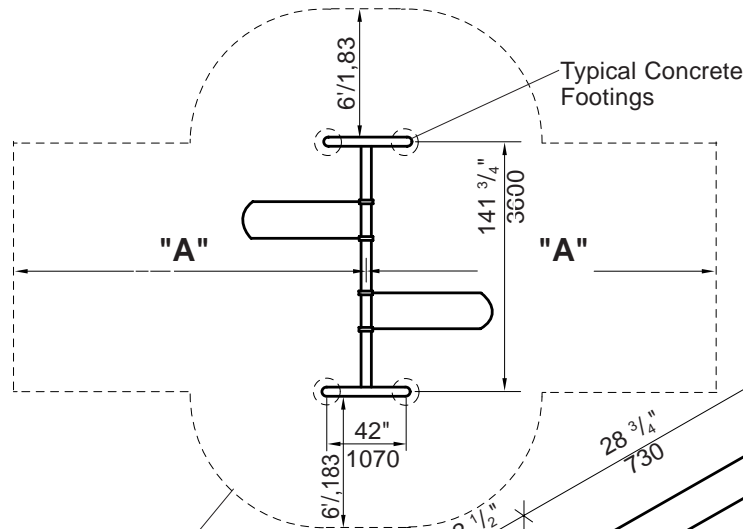
Installation Time: Approx. $\frac{1}{2}$ man hour

Weight: 6 lbs.

Installation Instructions

- 1) Locate and mark location of clamp on beam.
- 2) Attach 5" half clamp and swing hanger clamp to beam using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. *Tighten evenly.*
- 3) **IMPORTANT:** *Drill through holes in 5" half clamps and into 5" pipe with a $\frac{1}{4}$ " or "F" (only) drill bit, tap $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets through 5" half clamps and into pipe, to ensure that clamps remain secure.*
- 4) Attach swing chain to double clevis using $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/pin limited thread bolts.
- 5) Attach swing seat to chains using bolt links with $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/pin limited thread bolts. **NOTE:** *Do not over-tighten limited thread bolt. Threads should not protrude past bolt link. Position bolt head inward facing user.*

PLAN VIEW/FOOTING LAYOUT



KEY	Dimension "A"
Seat Type	
Belt	16'-0" (4,88 m)
Flat	16'-0" (4,88 m)
Full Bucket	12'-0" (3,66 m)
Half Bucket	16'-0" (4,88 m)
Molded Bucket	16'-0" (4,88 m)
Molded Bucket/Harness	13'-0" (3,96 m)
Infant Full Bucket	N/A

Minimum Use Zone

(2) Typical Tee Clamps-Center Beam In Middle Of Arch

99 3/4" / 2534
From Top of Surfacing to Center of Beam

(2) Arches

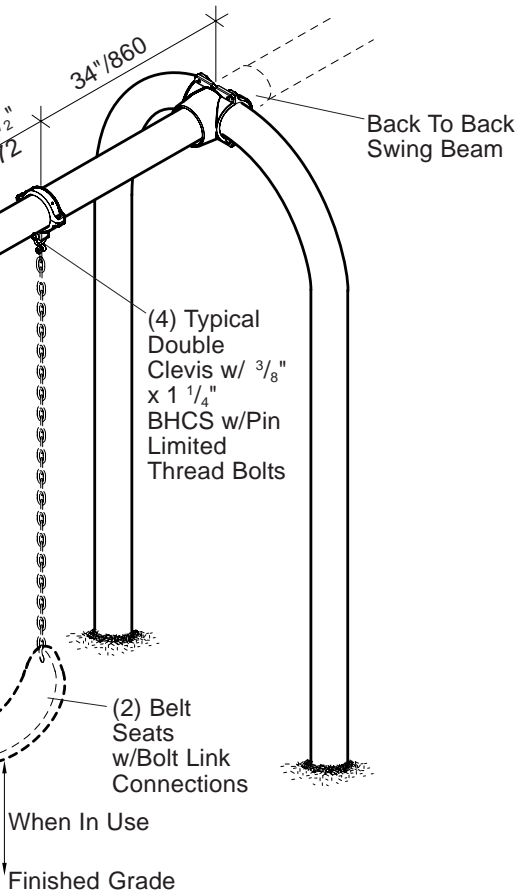
(4) Labels

Protective Surfacing

(4) Typical Swing Hanger Clamp Assemblies

(4) TenderTuff Coated Chains or ProGuard Coated Chains Also Available

NOTE: Model numbers are for swing frames only, order swing seats with chains separately.



Model #177331 Additional Bay

Swings

177330/177331 Arch Belt Swing Frame

Sheet 1 of 2

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

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Document #18448000

Swings 177330/177331 Arch Belt Swing Frame

Parts List

Part#	Description	Qty.	
		2 Pl	Add. Bay
126749-00	Swing Arch, Specify Color	2	1
100610-00	1/4" x 3/8" Drive Rivet, AL/SST	8	6
105327-01	5" Half Clamp, Specify Color	8	4*
146160-00	141 3/4" Swing Beam, Specify Color	1	1
121291-00	Swing Hanger Clamp Assy. Specify Color	4	4
121289-00	Swing Hanger Clamp, Specify Color	4	4
127068-00	7/16" x 2 7/16" BHCS w/Pin Ltd. Thread, SST	4	4
138917-00	Swing Hanger Double Clevis	4	4
100667-00	Oilite Bushing	4	4
184227-00	Arch Swing 5" O.D. Beam Hardware Pkg.	1	1
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	8	8
113027-00	3/8" x 1 3/8" BHCS w/Pin, SST	8	8
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	4	4
100351-00	3/8" Tee Nut, SST	16	16
156846-00	Play Safe Label, 2-12 Yrs.	1	1
128296-00	3/8" Hex Jam Nut, SST	8	8
182213-00	Hot Surface Warning Label	2	1
182212-00	Entanglement Warning Label	2	1
115176-00	Hard Surface Warning Label	2	1

* = 5" Half Clamps From 2 PL. End Of Beam Need To Be Used.

Specifications

Arch Posts: See PlayBooster® (PB) General Specifications.

Swing Beam: Weldment comprised of tee clamps and 5" O.D. extruded 6005-T5 aluminum alloy tube with a .125" W. Finish: ProShield®, color specified.

Hanger Clamp

Assembly: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 8 man hours
Additional Bay 4 man hours

Concrete Req.: Approx. 7.5 cu. ft.
Additional Bay 3.75 cu. ft.

Area Req.: 24'-2 3/4" x 32' (7,39 m x 9,75 m)
Additional Bay 11'-9 3/4" x 32' (3,60 m x 9,75 m)

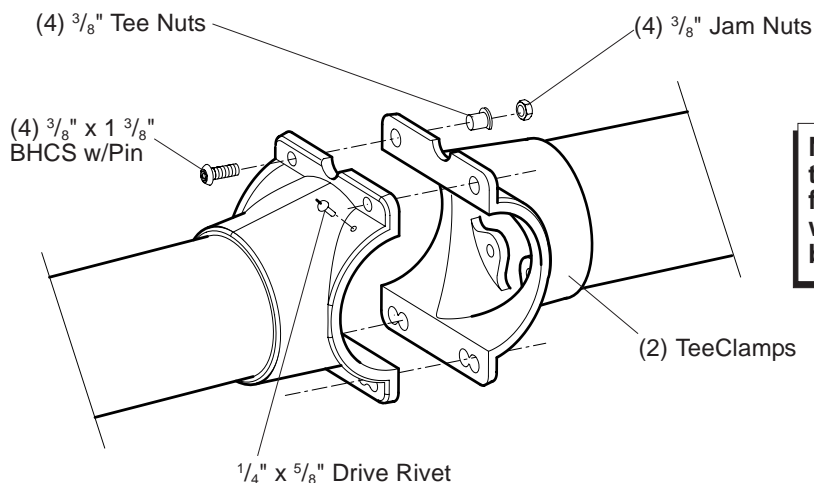
Weight: 204 lbs.
Additional Bay 124 lbs.

Fall Height: 96" (2,43 m)

Installation Instructions

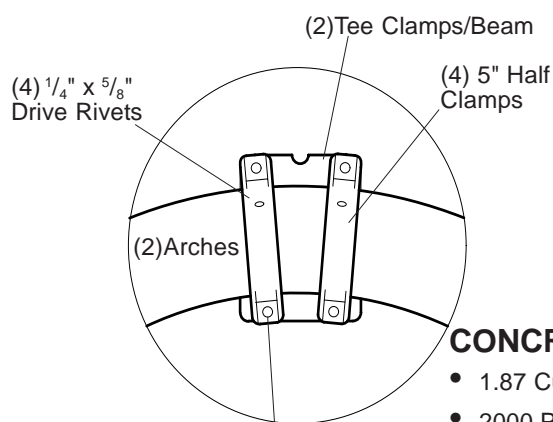
- 1) Dig footings, spaced as shown. Refer to the Concrete Footing Detail.
- 2) Set arches in footing holes and attach swing beam to center of arches using 5" half clamps with 3/8" x 1 3/8" BHCS w/pin and 3/8" tee nuts with 3/8" jam nuts. Refer to the Tee Clamp Position Detail. Center of beam should be 99 3/4" above finished grade. When installing back to back swing beams refer to the Back To Back Tee Clamps Detail.
- 3) Level beam and plumb arches and temporarily prop in position. Pour concrete footings and let cure for 72 hours before proceeding.
- 4) Locate, mark and attach swing hanger clamps to beam in locations shown. Refer to the Typical Swing Hanger Clamp Spec Sheet.
- 5) **NOTE:** Refer to specific swing seat installation document for attaching chains and seats.
- 6) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet. Refer to the Back To Back Tee Clamps Detail.
- 7) Apply Play Safe and Warning Labels, as shown.
- 8) Install protective surfacing before users are allowed to play on the swing.

DETAIL BACK TO BACK TEE CLAMPS



NOTE: Drill 1/4\"

DETAIL TEE CLAMP POSITION



NOTE: Use Inside Holes
For (4) 3/8\"

DETAIL CONCRETE FOOTING

Finish Grade
Sticker

Loose Fill
Protective
Surfacing

Subgrade

CONCRETE

- 1.87 Cubic Feet per Footing.
- 2000 PSI (Min.)
- 3000 PSI (Min.) If Freezing Conditions Exist.

3/4\"

Part Number Label
Example



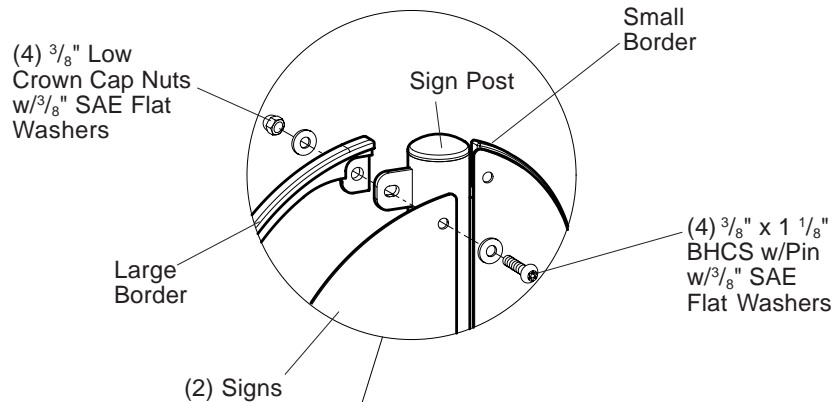
Number Indicates
Post Length

Depth/
Performance
Based on Fall
Height

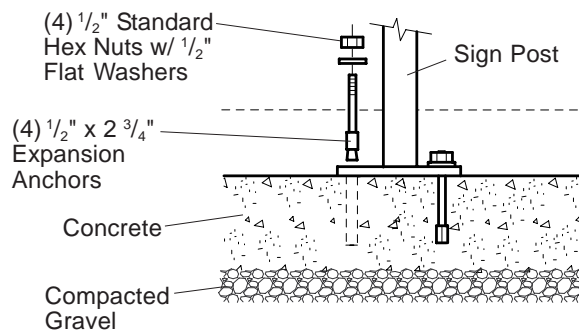
20\"/>

4\"/>

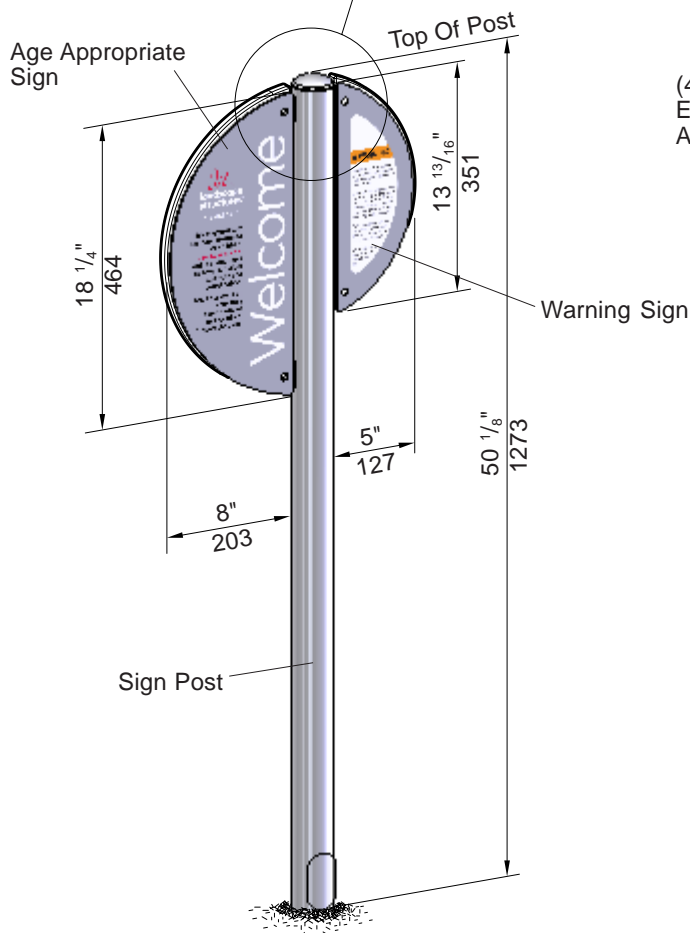
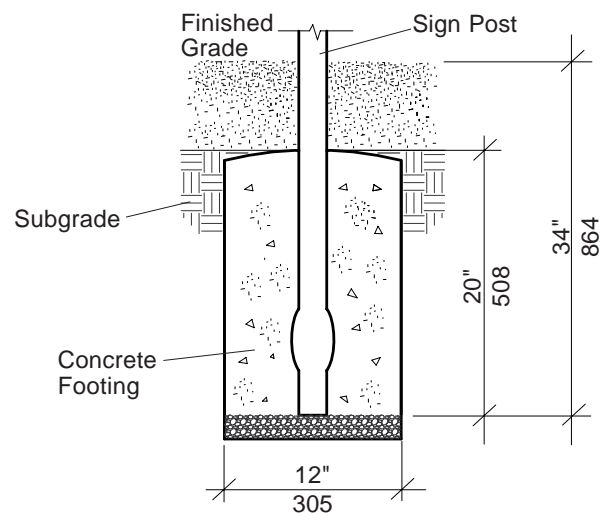
DETAIL SIGN ATTACHMENT



DETAIL SURFACE MOUNT



DETAIL DIRECT BURY FOOTING



Model 182503 - Landscape Structures Provided Welcome Sign
Model 182504 - Welcome Sign

Signs

Welcome Sign

Parts List

Part#	Description	Qty.
180600-00	Warning Sign, Gray	1
180599-00	Age Appropriate Sign, 2-12 Years, Gray	*
182018-00	Age Appropriate Sign, 2-5 Years, Gray	*
182019-00	Age Appropriate Sign, 5-12 Years, Gray	*
182020-00	Age Appropriate Sign, 1 1/2-5 Years, Gray	*
182021-00	Age Appropriate Sign, 1 1/2-12 Years, Gray	*
182022-00	Age Appropriate Sign, 6-23 Months, Gray	*
180598-00	Sign Post (DB), Specify Color	*
181119-00	Sign Post (SM), Specify Color	*
193782-00	Large Border, Black	1
193783-00	Small Border, Black	1
193785-00	Age/Warning Sign Hardware Package	1
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	4
100349-00	3/8" Low Crown Cap Nut, SST	4
100365-00	3/8" SAE Flat Washer, SST	8
121348-00	4 Hole (SM) Hardware Package	1
100266-00	1/2" x 2 3/4" Expansion Anchor	4
100322-00	1/2" Standard Hex Nut, SST	4
100363-00	1/2" Flat Washer, SST	4

DB = Direct Bury

SM = Surface Mount

* = Quantity Determined By Your Order

Specifications

Sign Panel: Panel is fabricated from 11 GA. (.120") (3,05 mm) steel sheet. Finish: ProShield®, gray in color. **(Sign)** Digital image is transferred to a .120" (3,05 mm) thick ProShield coated steel plate, then infused into the ProShield.

Border: Permalene, black in color.

Post: Weldment comprised 2.375" (60,33 mm) O.D. RS20 (.095-.105) (2,41 mm-2,67 mm) wall galvanized tube, 1/4" (6,35 mm) HRPO steel sheet and aluminum post cap. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: (DB) Approx. 1 man hour
(SM) Approx. 1/2 man hour

Concrete Req: Approx. 1.31 cu. ft.

Weight: (DB) - 24 lbs.
(SM) - 27 lbs.

Installation Instructions

Direct Bury

- 1) Dig footing hole to depth and diameter shown.
- 2) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers
- 3) Set sign assembly in footing hole and temporarily brace in plumb position.
- 4) Pour concrete footing. After concrete has cured, remove bracing.

Surface Mount

- 1) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers
- 2) With sign in proper position, using a 1/2" masonry bit and hammer drill, drill 3" deep holes into concrete slab through holes in post plate. Tap 1/2" x 2 3/4" expansion anchors into holes and secure using 1/2" standard hex nuts with 1/2" flat washers.

JUNCTION RIDGE PARK

PLAYGROUND MANUFACTURER'S INSTALLATION INFORMATION

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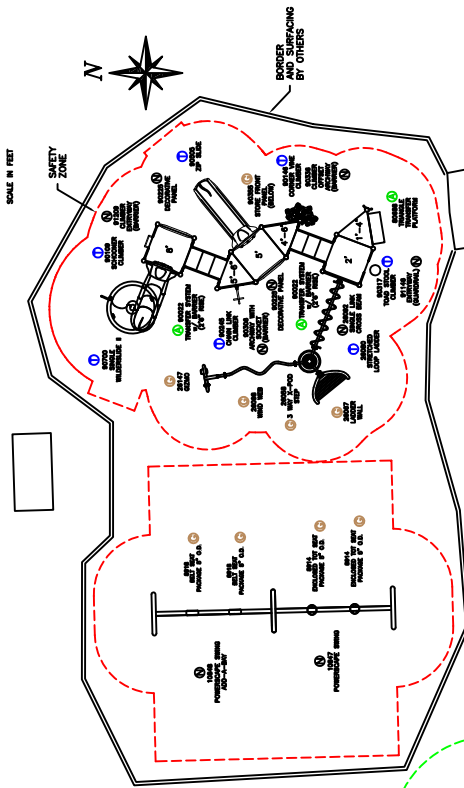
ACCESSIBILITY KEY

- ① TRANSFER ACCESSIBLE = BLUE
- ② ELEVATED ACCESSIBLE = GREEN
- ③ ELEVATED NOT ACCESSIBLE = MAGENTA
- ④ NON PARTICIPATING = BLACK
- ⑤ RAMP ACCESSIBLE = RED
- ⑥ ACCESS ROUTE = GREEN

ADA REQUIREMENTS FOR STRUCTURE AGES 5-12 YEARS OLD

AGES 5-12 YEARS OLD	AGES 2-4 YEARS OLD
① TRANSFER ACCESSIBLE	① TRANSFER ACCESSIBLE
② ELEVATED ACCESSIBLE	② ELEVATED ACCESSIBLE
③ ELEVATED NOT ACCESSIBLE	③ ELEVATED NOT ACCESSIBLE
④ NON PARTICIPATING	④ NON PARTICIPATING
⑤ RAMP ACCESSIBLE	⑤ RAMP ACCESSIBLE
⑥ ACCESS ROUTE	⑥ ACCESS ROUTE

THIS PLAN SHOWS THE LOCATION OF ALL STRUCTURES AND THE TYPE, MAKE, AND COLOR OF THE SAFETY SURFACING. THE SAFETY SURFACING IS TO BE INSTALLED IN ACCORDANCE WITH THE ADA REQUIREMENTS.



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Junction Ridge Park

Madison, Wisconsin

2/25/15 Dwg. No. D7196H3

SCALE: 1" = 20'-0"



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1-800-235-2440

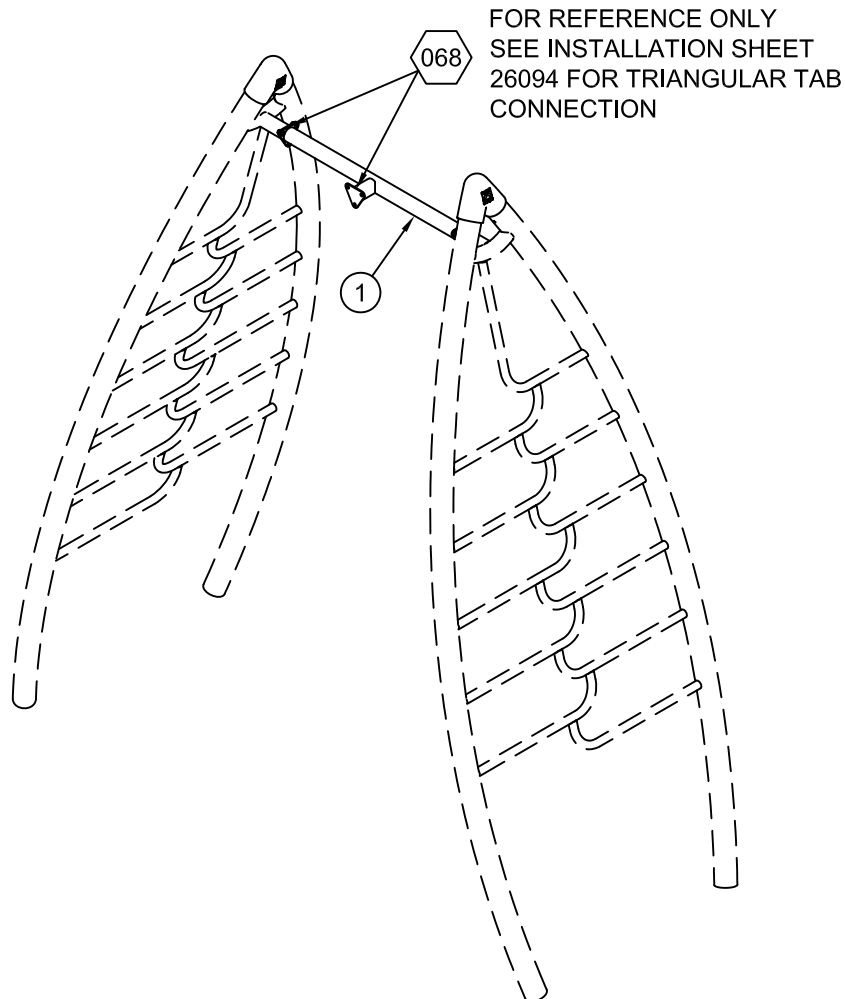
ISSUED/REVISED: 9/27/12

26091

CROSS BEAM CONNECTOR

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE

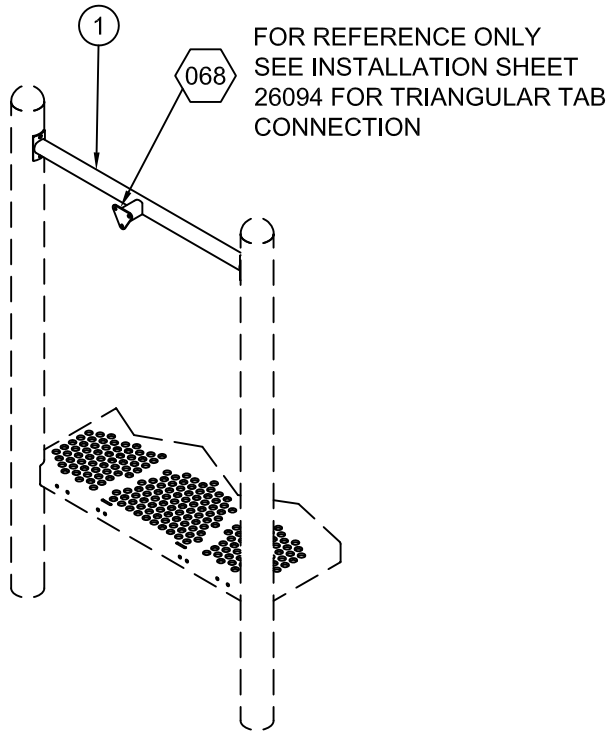
SINGLE LINK CROSS BEAM	26091
DOUBLE LINK CROSS BEAM	26090
PS PLUS SINGLE LINK CROSS BEAM	26092
45 1/2" PT SINGLE LINK CROSS BEAM	26093
36" PT SINGLE LINK CROSS BEAM	26155



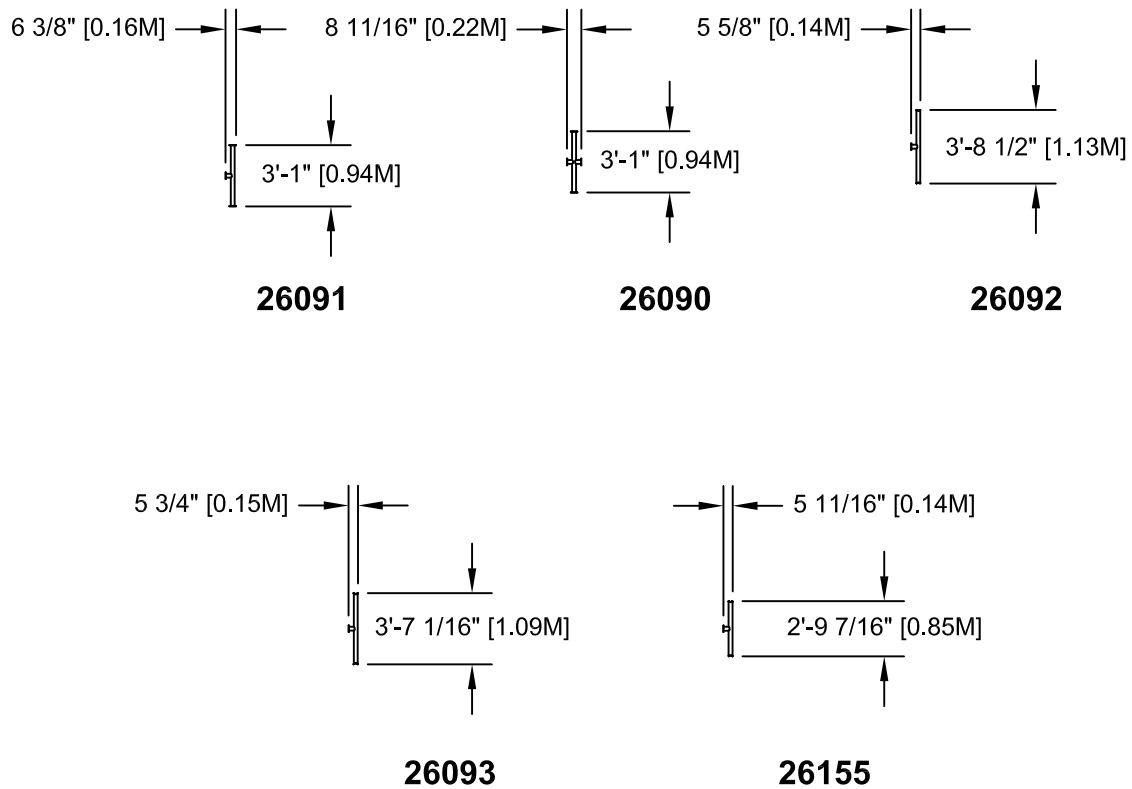
ASSEMBLY DRAWING

26091 SHOWN

26090 SIMILAR



ASSEMBLY DRAWING
26092 SHOWN
26093 & 26155 SIMILAR



TOP VIEWS

PARTS LIST

REF NO.	DESCRIPTION	No. REQ'D					PART NUMBER
		26091	26090	26092	26093	26155	
1	Single Link Cross Beam	1	0	0	0	0	178827
1	Double Link Cross Beam	0	1	0	0	0	178569
1	PS Plus Single Link Cross Beam	0	0	1	0	0	178829
1	45 1/2" PrimeTime Single Link Cross Beam	0	0	0	1	0	178831
1	36" PrimeTime Single Link Cross Beam	0	0	0	0	1	202925
	Hardware Complete	0	0	1	1	1	178832
	3/8" X 1" P.B.H.C.S. w/Patch	0	0	4	4	4	812050*
	3/8" Lockwasher	0	0	4	4	4	817334*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

**Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.**

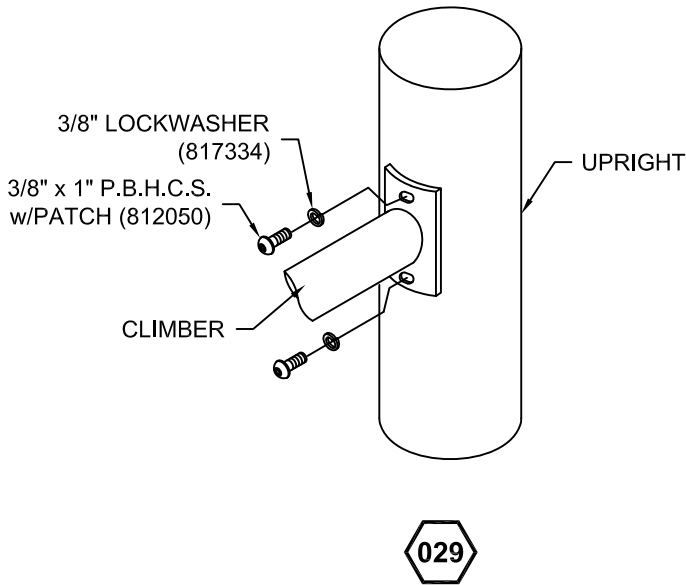
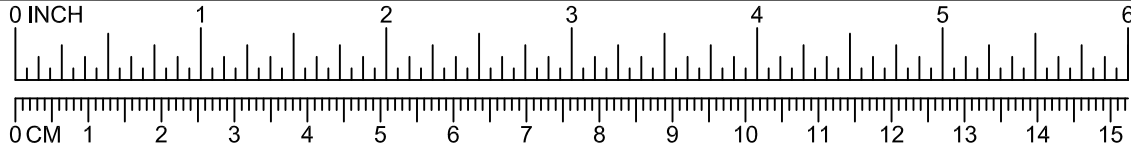
Note: Loctite (supplied by others) should be used on all threaded hardware.

DETAILS -for- 26091, 26090, 26092 26093 AND 26155

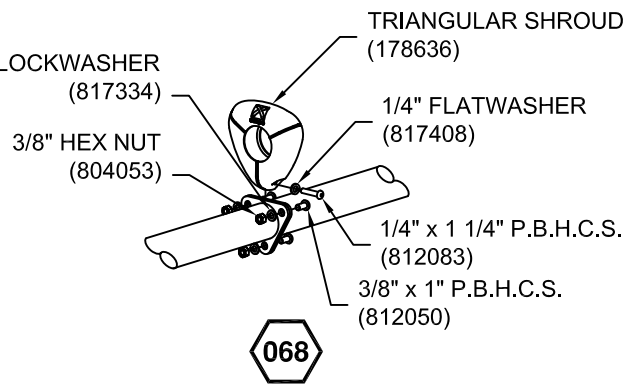
IMPORTANT

To REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



STRETCH TRIANGULAR SHROUD OVER TRIANGLE TABS BEFORE INSTALLING 1/4" x 1 1/4" B.H.C.S.



NOTE: SEE INSTALLATION SHEET 26094 FOR RUBBER SHROUD CONNECTION DETAIL. HARDWARE FOR THIS CONNECTION IS LOCATED IN HARDWARE COMPLETE #178755



Enriching Childhood Through Play™

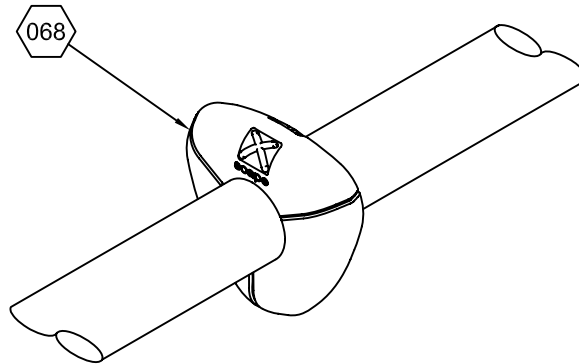
1-800-235-2440

ISSUED/REVISED: 2/4/09

26094

TRIANGULAR SHROUD

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE



INSTRUCTIONS

1. Before assembling this equipment, read the enclosed *INSTALLER INSTRUCTIONS* in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the *ASSEMBLY DRAWING*. Refer to the assembly details for the specific hardware required in each connection.
3. Loctite (supplied by others) should be used on all threaded hardware.

ASSEMBLY DRAWING

PARTS LIST

REF NO.	DESCRIPTION	No. REQ'D	PART NUMBER
	Hardware Complete	1	178755
	Triangular Shroud	1	178636*
	3/8" x 1" P.B.H.C.S.	3	812050*
	3/8" Lockwasher	3	817334*
	3/8" Hex Nut	3	804053*
	1/4" x 1 1/4" P.B.H.C.S.	1	812083
	1/4" Flatwasher	1	817408*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

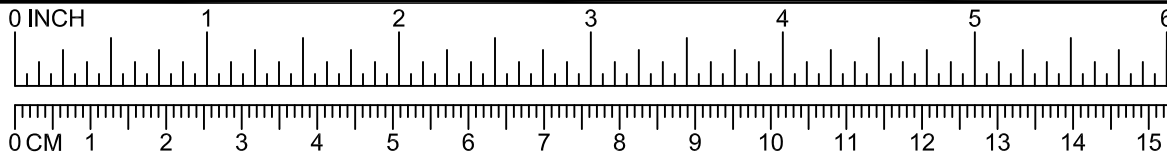
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

DETAILS -for- 26094

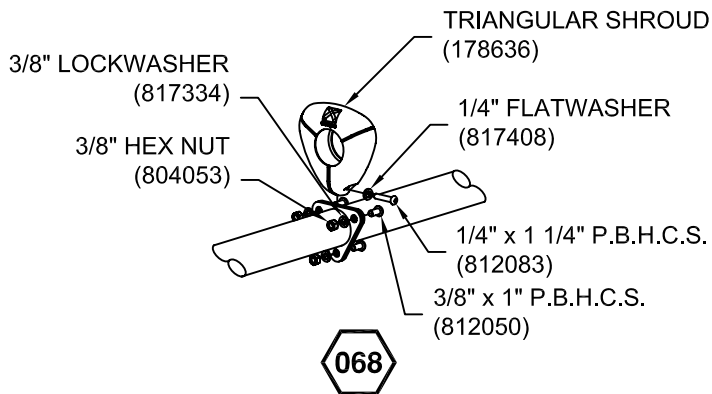
IMPORTANT



To Reduce the Risk of Clothing Entanglement in Compliance with ASTM F1487, Any Bolt End Protruding More Than Two Full Threads Beyond the Face of the Nut Shall Be Cut-Off Flush, Filed Smooth and Treated to Prevent Corrosion.

NOTE: After Assembly is Complete, Peen Tee-Nuts and Flatwashers to Match Radius of Pipe.



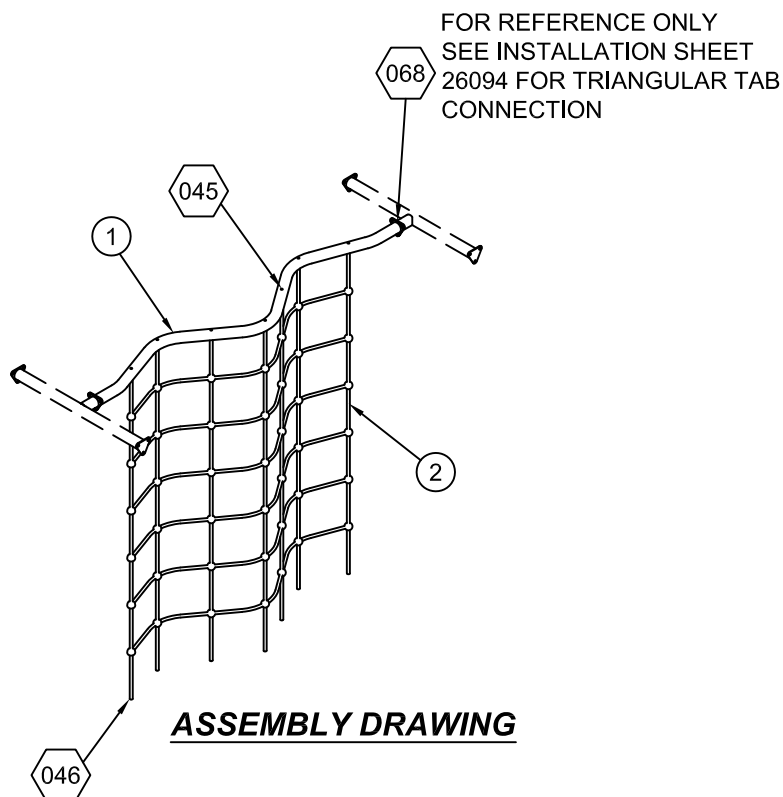
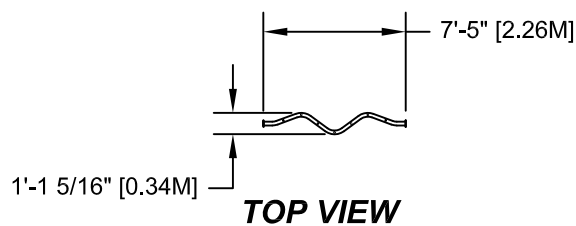
STRETCH TRIANGULAR SHROUD
OVER TRIANGLE TABS BEFORE
INSTALLING 1/4" x 1 1/4" B.H.C.S.



-  = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

INSTRUCTIONS

1. Before assembling this equipment, read the enclosed *INSTALLER INSTRUCTIONS* in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the *ASSEMBLY DRAWING*. Refer to the assembly details for the specific hardware required in each connection.
3. Loctite (supplied by others) should be used on all threaded hardware.



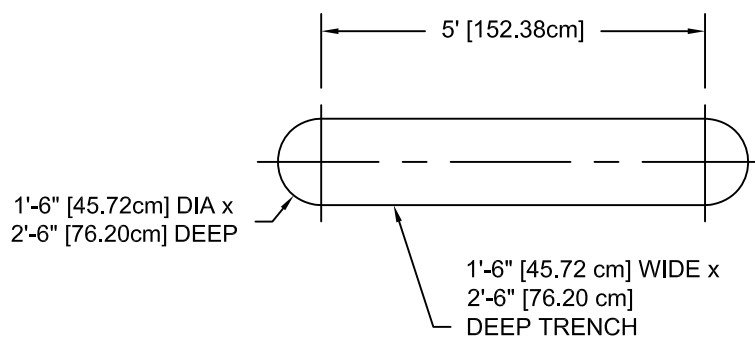
PARTS LIST

REF NO.	DESCRIPTION	No. REQ'D	PART NUMBER
1	Top Rail	1	178797
2	Wind Web Net	1	178212
	Hardware Complete	1	178802
	3/8" Lockwasher	7	817334*
	3/8" Flatwasher	7	817410*
	3/8" x 2 1/2" P.B.H.C.S. w/Patch	7	812057*
	Stake	7	107921*

Unless Otherwise Specified, All Units of Measure are Each

* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.



GROUND PLAN

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 005. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

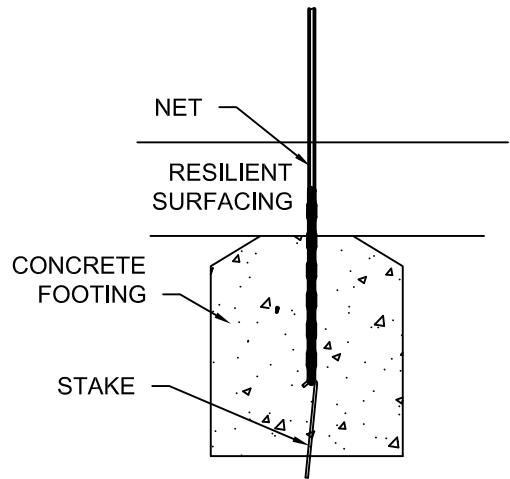
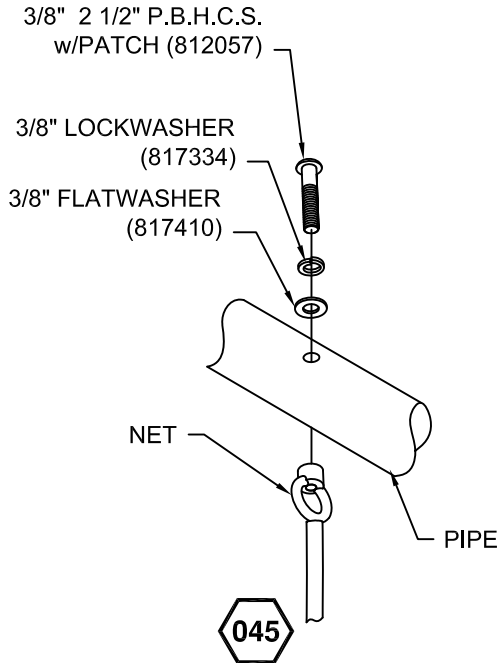
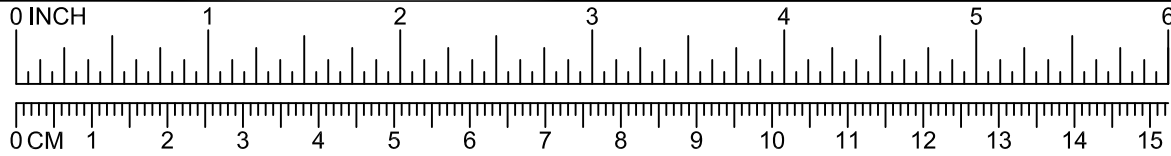
CONCRETE REQUIRED
.52 CUBIC YARDS
[.40 CUBIC METERS]

DETAILS -for- 26098

IMPORTANT

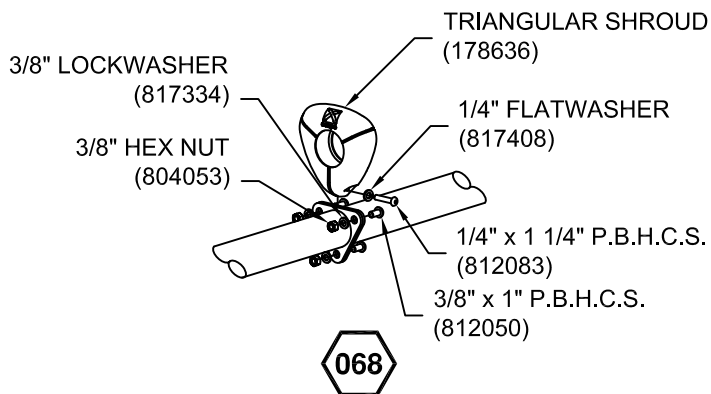
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



NOTE: STAKE CHAIN AT BACK OF GROUND HOLE USING STAKES PROVIDED.

STRETCH TRIANGULAR SHROUD OVER TRIANGLE TABS BEFORE INSTALLING 1/4" x 1 1/4" B.H.C.S.



NOTE: SEE INSTALLATION SHEET 26094 FOR RUBBER SHROUD CONNECTION DETAIL. HARDWARE FOR THIS CONNECTION IS LOCATED IN HARDWARE COMPLETE #178755



A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 3/29/11

26147
GIZMO

 = INSTALLATION
DETAIL

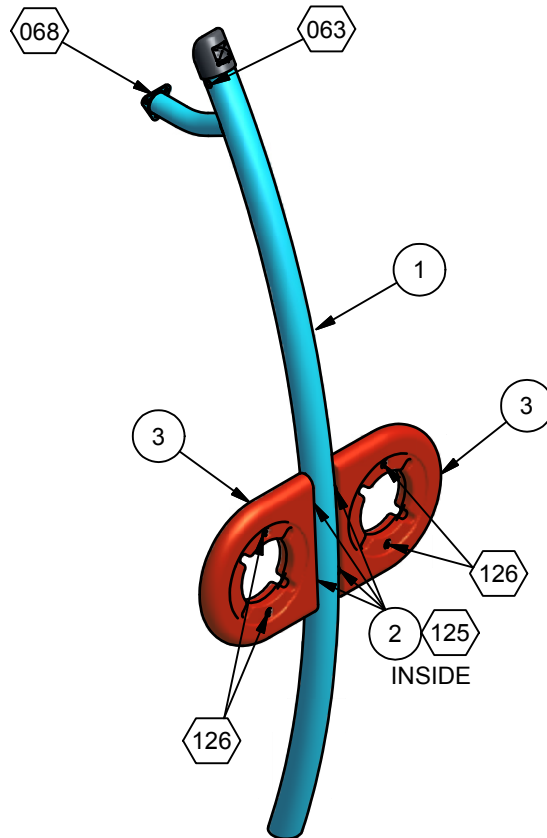
 = PARTS LIST
REFERENCE

INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. Loctite (supplied by others) should be used on all threaded hardware.

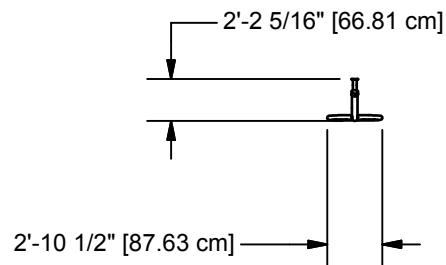


FOR REFERENCE ONLY
SEE INSTALLATION
SHEET 26094 FOR
TRIANGULAR TAB
CONNECTION

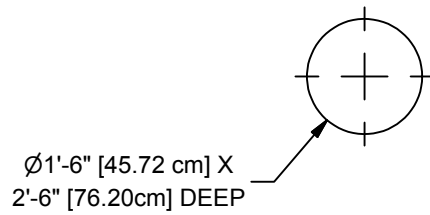


ASSEMBLY DRAWING

NOTE: OPENING ON PANEL
MUST BE FILLED WITH A
GIZMO BEFORE PLAYGROUND
IS OPERATIONAL.



TOP VIEW



CONCRETE REQUIRED
.10 CUBIC YARDS
(.08 CUBIC METERS)

GROUND PLAN

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	UPRIGHT WELD ASSEMBLY	1	202287
2	PIPE	4	201142
3	SINGLE GIZMO PANEL	2	169416
	HARDWARE COMPLETE	1	201136
	3/8" x 1/2" P.B.H.C.S. w/PATCH	2	812049*
	3/8" x 1" B.H.C.S.	4	811050*
	3/8" LOCKWASHER	4	817334*
	3/8" FLAT WASHER	6	817410*
	3/8" T-NUT	8	804556*
	3/8" x 1 3/4" HEX HEAD BOLT	4	801006*
	POST TOPPER	1	178676*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

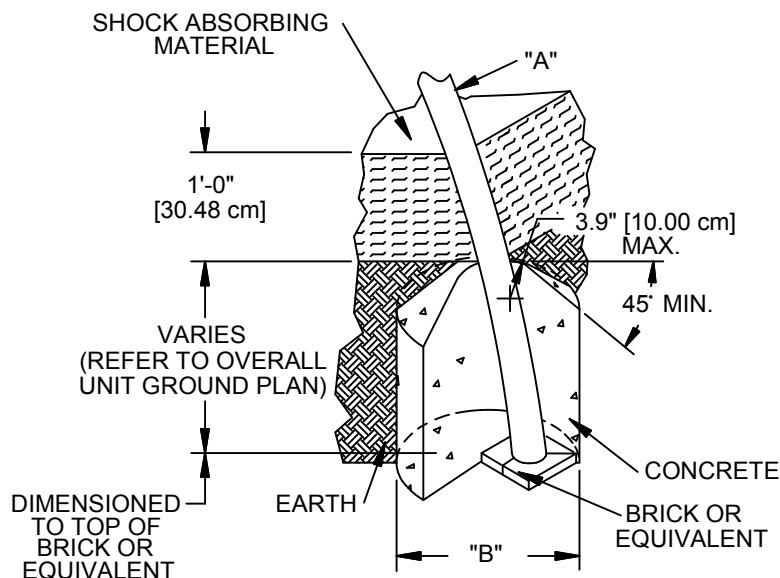
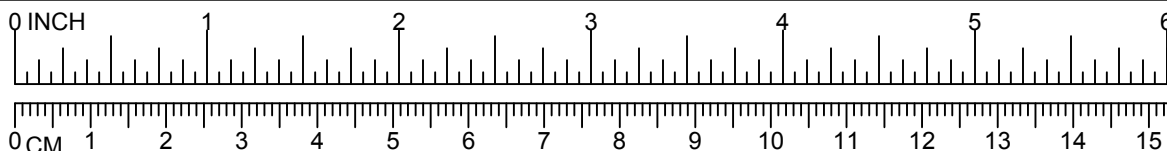
DETAILS -for- 26147

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
SWINGS	
3 1/2" [8.89 cm]	2'-0" [60.96 cm]

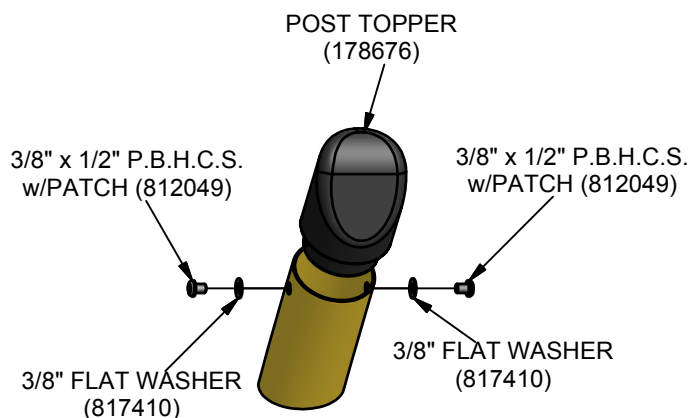
NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

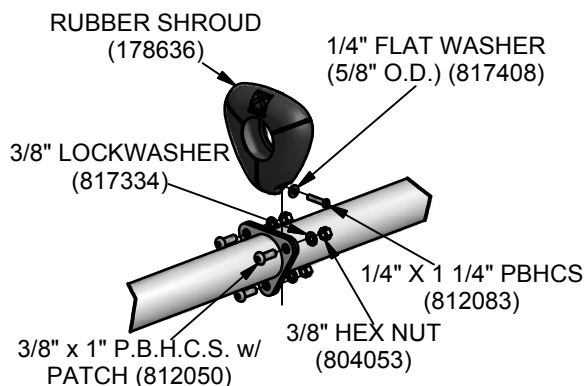
003

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

STRETCH TRIANGULAR SHROUD OVER TRIANGLE TABS BEFORE INSTALLING 1/4" x 1 1/4" B.H.C.S.



063



NOTE: SEE INSTALLATION SHEET 26094 FOR RUBBER SHROUD CONNECTION DETAIL, HARDWARE FOR THIS CONNECTION IS LOCATED IN HARDWARE COMPLETE #178755

068

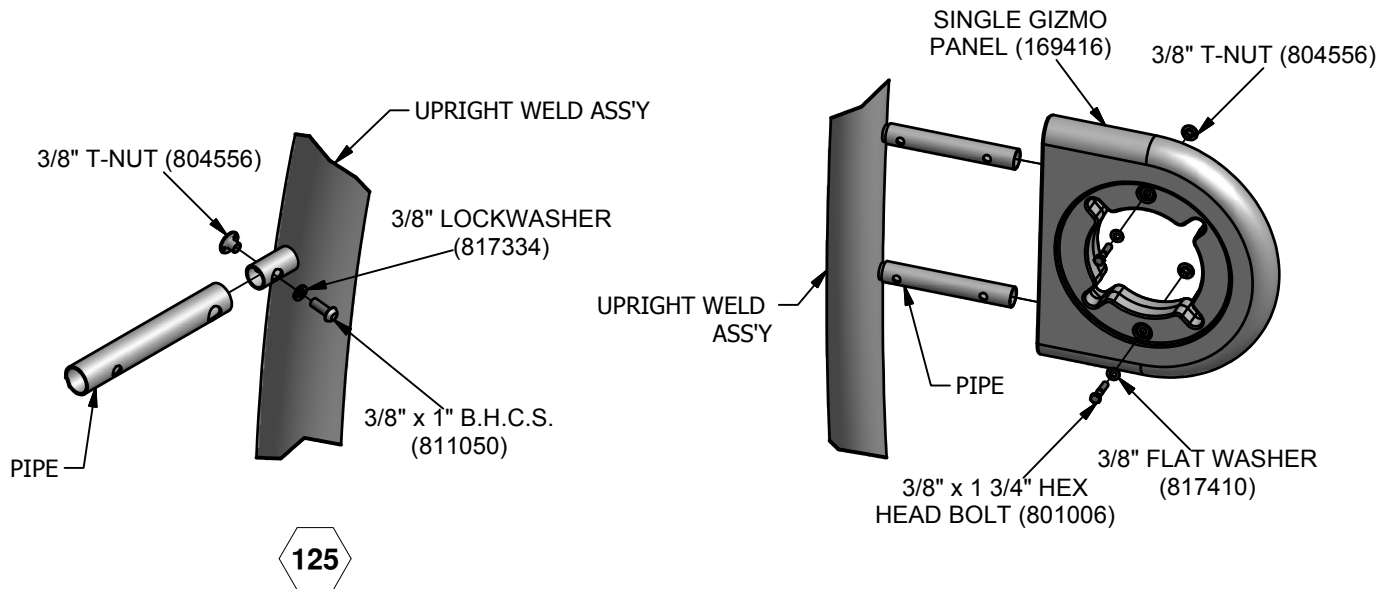
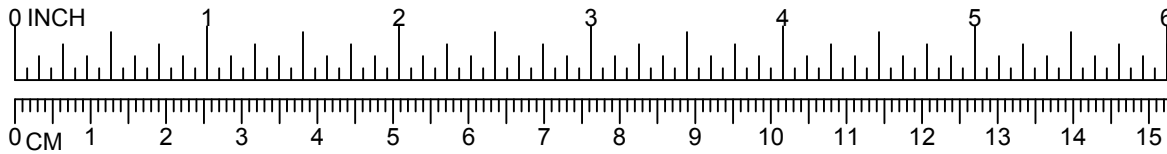
DETAILS -for- 26147

IMPORTANT

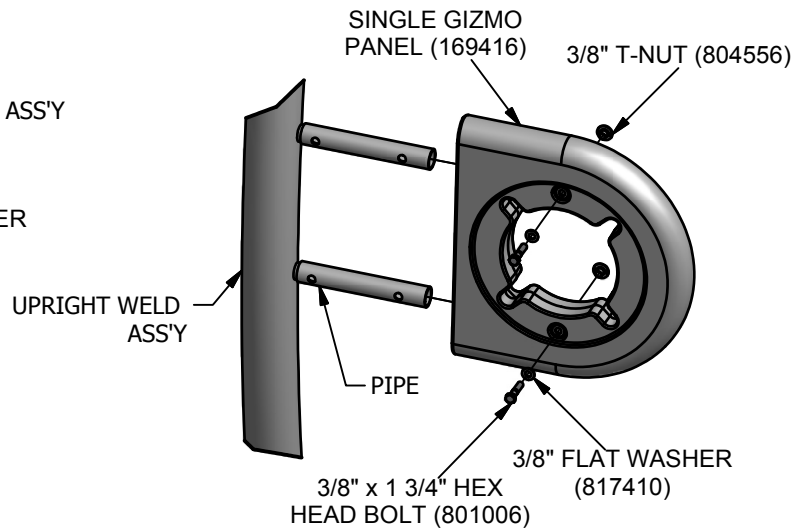
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

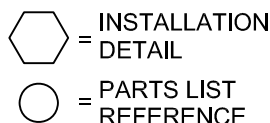
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



125



126



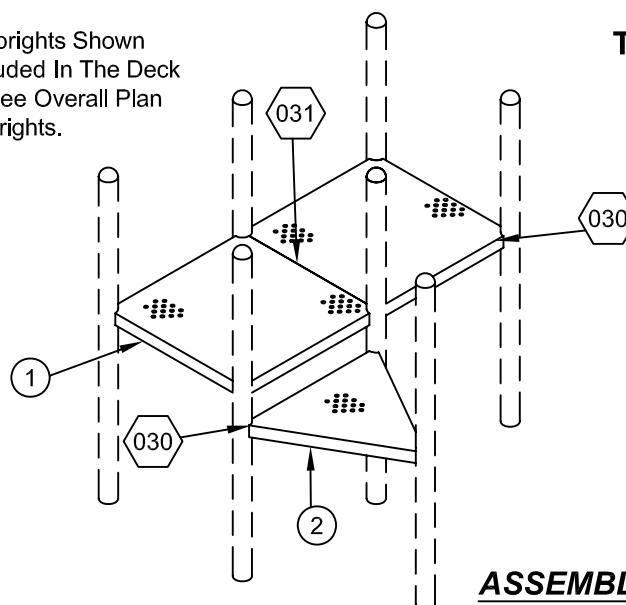
Note: The Uprights Shown
Are Not Included In The Deck
Packages. See Overall Plan
View For Uprights.

SQUARE 80000
TRIANGLE 80001

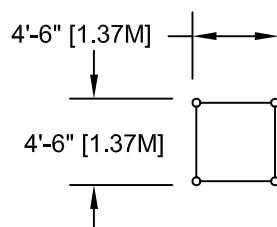
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed *Installer Instructions* in the installation booklet; follow all the instructions during assembly.
2. Dig ground holes per Ground Plan. See system topview for quantity.
3. Attach deck to uprights using (1) Detail 030 per upright.
4. Loctite (supplied by others) should be used on all threaded hardware.
5. When decks are at the same height as shown in Assembly Drawing, fasten together using (2) Detail 031.

NOTE: Remove vinyl from the two inside holes, with 1/2" bit.

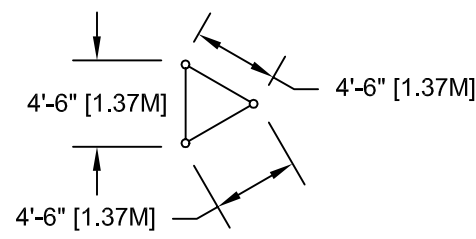


ASSEMBLY DRAWING



80000

TOP VIEWS

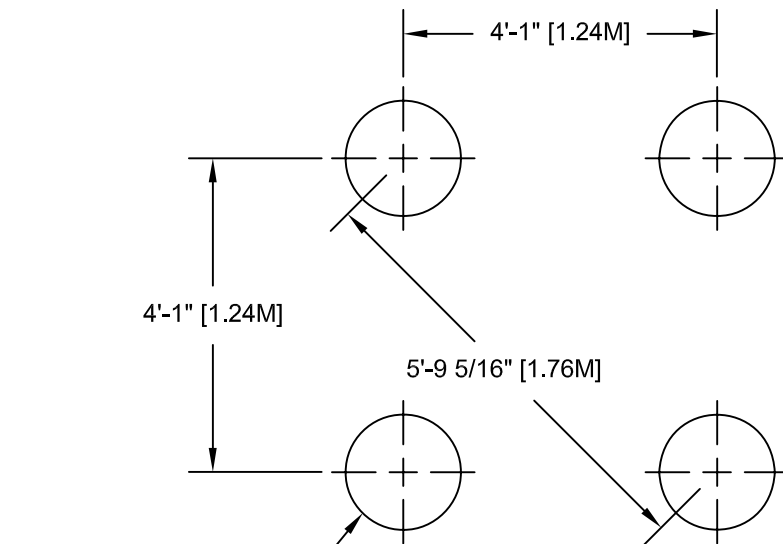


80001

PARTS LIST

REF NO.	DESCRIPTION	80000	80001	PART NUMBER
1	Punched Deck, Square	1	0	163307
2	Punched Deck, Triangle	0	1	163317
	Hardware Complete	1	0	161254
	Hardware Complete	0	1	161255
	3/8" x 3/4" P.B.H.C.S. w/Patch	2	2	812052*
	3/8" x 1 1/2" P.B.H.C.S.	8	6	810053*
	3/8" Tee-Nut	2	2	804556*
	3/8" Lockwasher	10	8	817334*
	3/8" Flatwasher (1 1/4" O.D.)	10	8	817424*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

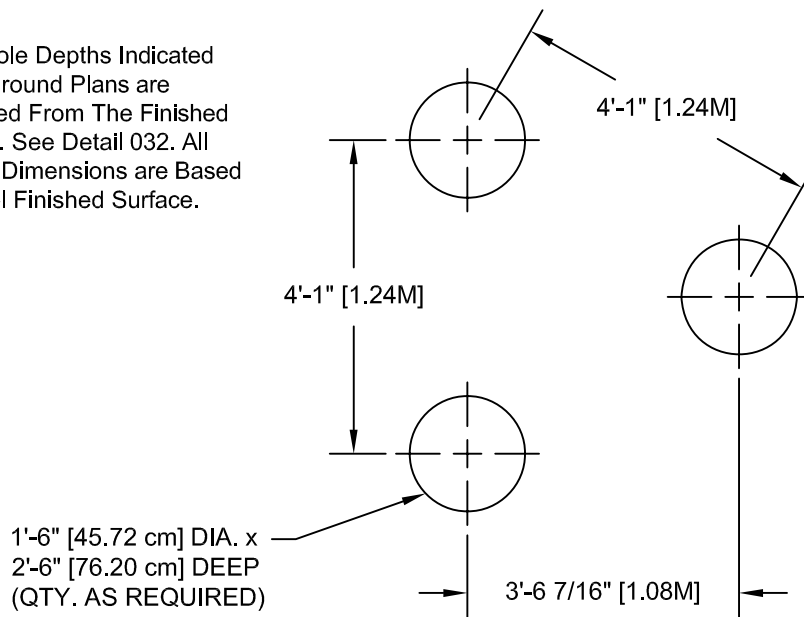


1'-6" [45.72 cm] DIA. x
2'-6" [76.20 cm] DEEP
(QTY. AS REQUIRED)
SEE DETAIL 032

80000

Concrete Required
.10 Cubic Yards [.07 cm]
Per Upright Ground Hole

Note: Hole Depths Indicated
on All Ground Plans are
Measured From The Finished
Surface. See Detail 032. All
Footing Dimensions are Based
on Level Finished Surface.



1'-6" [45.72 cm] DIA. x
2'-6" [76.20 cm] DEEP
(QTY. AS REQUIRED)
SEE DETAIL 032

80001

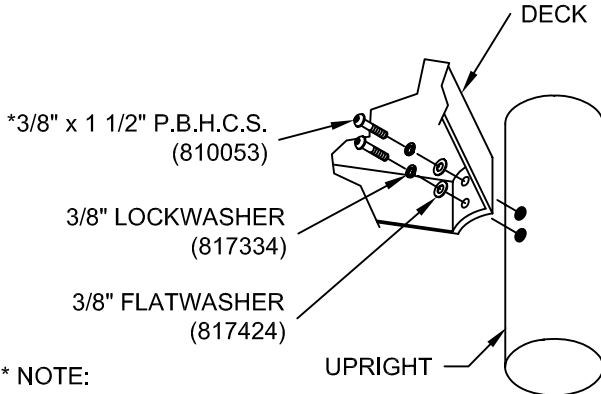
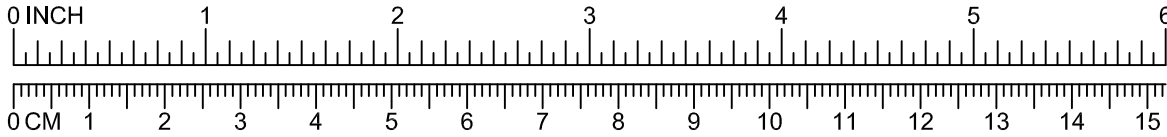
GROUND PLANS

DETAILS -for- 80000 & 80001

IMPORTANT

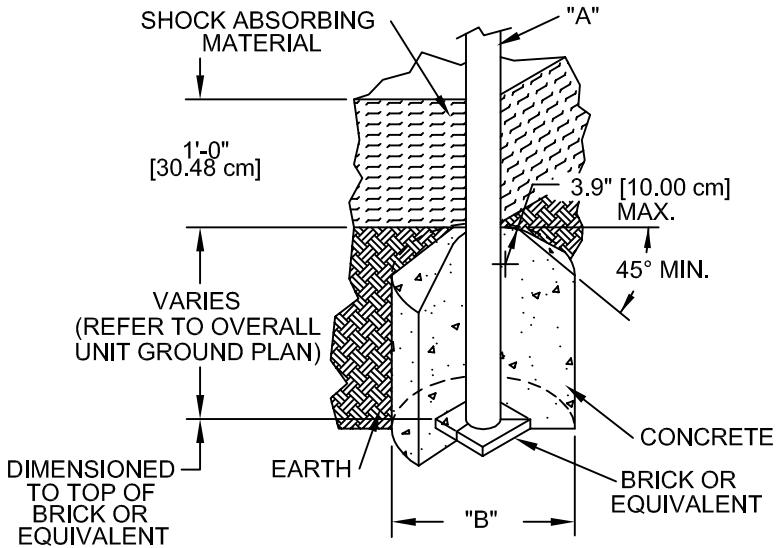
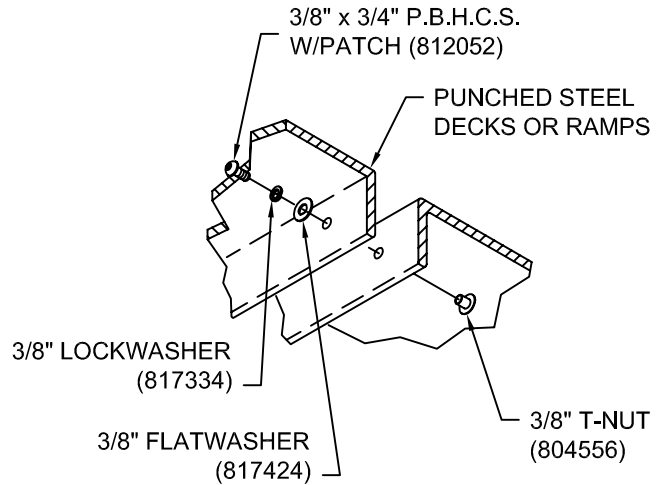
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



* NOTE: BOLTS SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.

* NOTE:
AFTER ASSEMBLY IS COMPLETED,
PEEN FLATWASHERS TO MATCH
RADIUS OF UPRIGHT.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

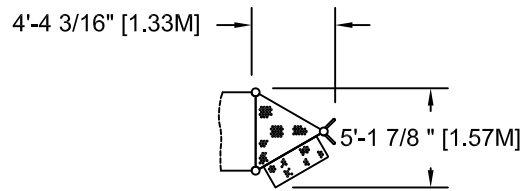
-SLOPED FOOTING IS A REQUIREMENT
OF EUROPEAN STANDARD EN1176-1 ONLY
-SUGGESTED MINIMUM CONCRETE
RATING: 3000 PSI



SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

ASSEMBLY DRAWING





TOP VIEW

PARTS LIST

REF NO.	DESCRIPTION	NO. REQ'D.	PART NUMBER
1	Triangle Deck	1	163317
2	8" Modular Platform	1	158921
3	Formed Kick Plate	1	153544
4	Flat Kick Plate	1	207050
5	Handhold	2	177207
6	Modular Platform Support Pipe	2	168470
	<i>Hardware Complete</i>	1	207058
	3/8" Flatwasher	8	817410*
	3/8" Lockwasher	32	817334*
	3/8" x 1 1/4" P.B.H.C.S. w/Patch	8	812051*
	3/8" x 1" P.B.H.C.S. w/Patch	16	812050*
	3/8" Flatwasher	24	817424*
	3/8" T-Nut	2	804556*
	3/8" x 2" P.B.H.C.S. w/Patch	2	812055*
	3/8" Hex Nut	16	804053*
	3/8" x 1 1/2" P.B.H.C.S.	6	810053*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

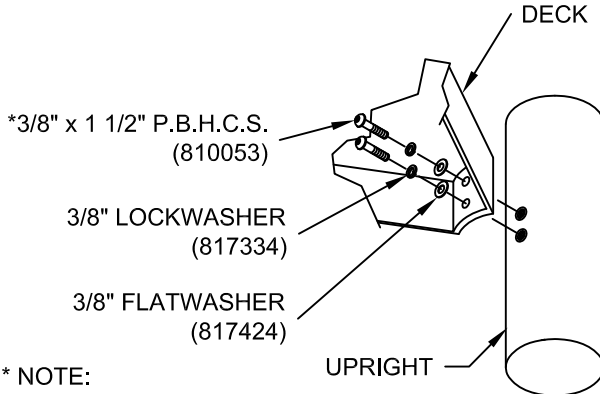
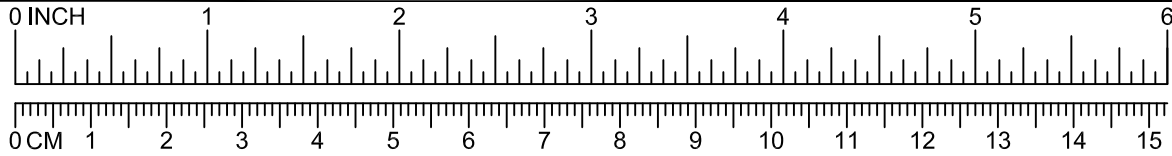
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

DETAILS -for- 80688

IMPORTANT

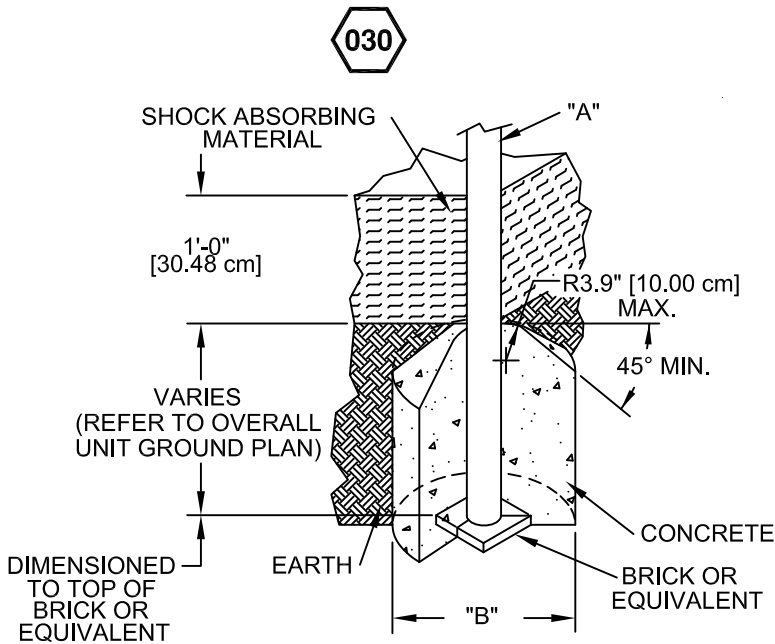
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



* NOTE:
BOLTS SHOULD BE TORQUED
FROM 20-25 FT. LBS. FOR
PROPER INSTALLATION.

* NOTE:
AFTER ASSEMBLY IS COMPLETED,
PEEN FLATWASHERS TO MATCH
RADIUS OF UPRIGHT.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

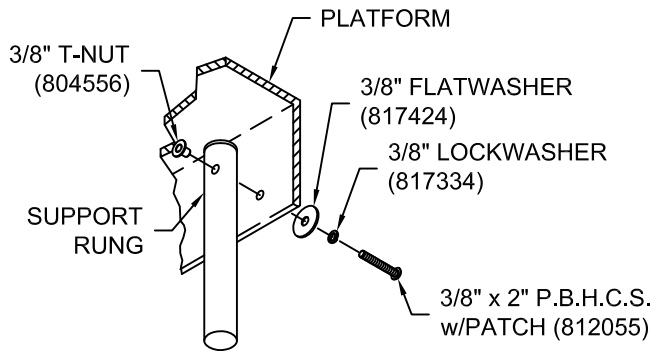
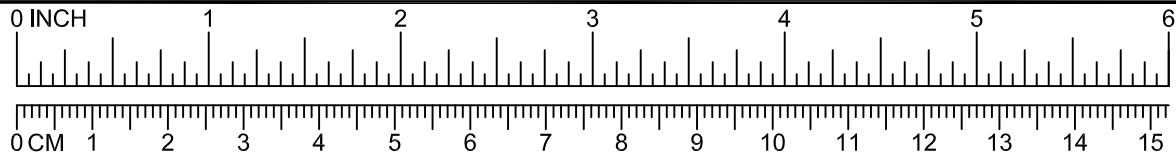
SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

DETAILS -for- 80688

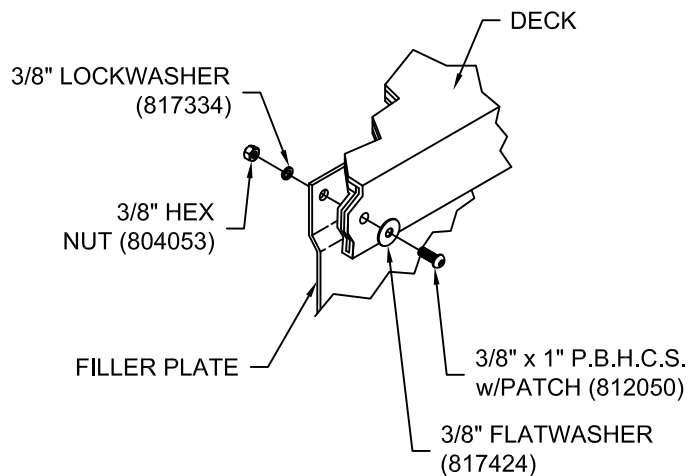
IMPORTANT

To REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

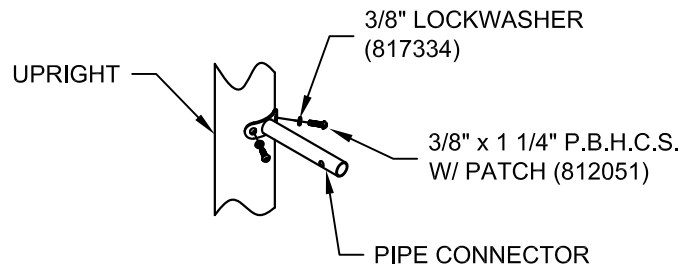
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



089





133



405

TRANSFER SYSTEM WITH BARRIER

-  = INSTALLATION
 = PARTS LIST
 REFERENCE

1'-0" RISE	90020
2'-0" RISE	90021
2'-6" RISE	90022
3'-0" RISE	90023
4'-0" RISE	90024



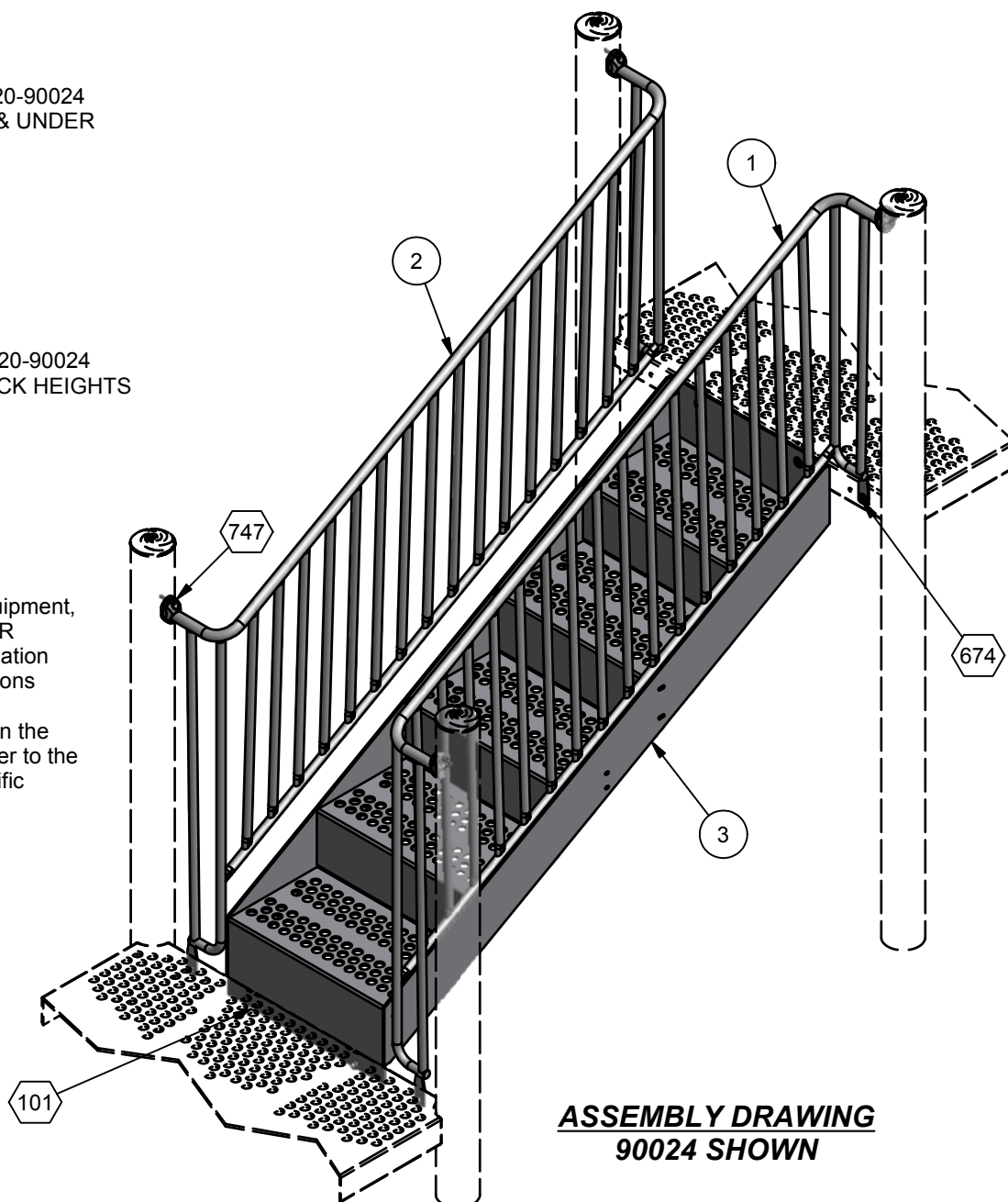
90020-90024
5'-0" & UNDER



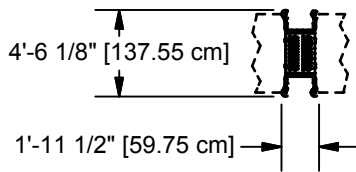
90020-90024
ALL DECK HEIGHTS

INSTALLATION INSTRUCTIONS

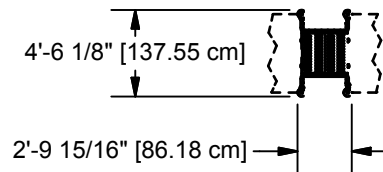
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



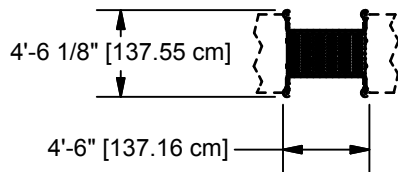
ASSEMBLY DRAWING
90024 SHOWN



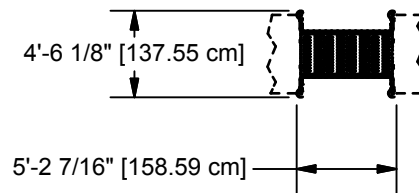
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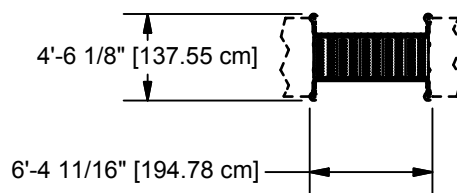
90021



90022

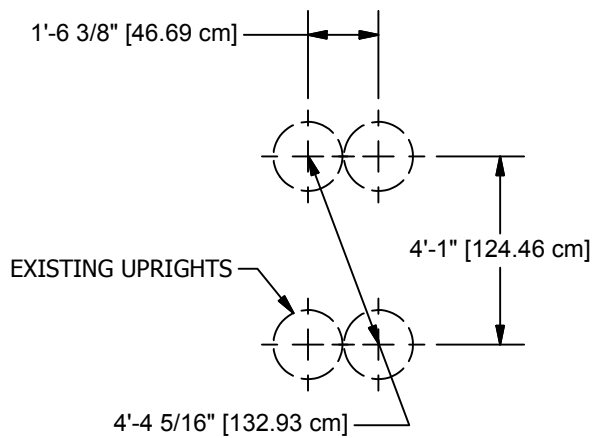


90023

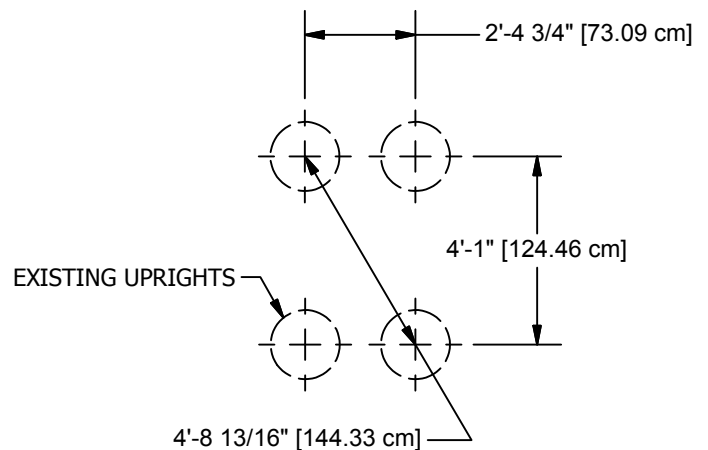


90024

TOP VIEWS

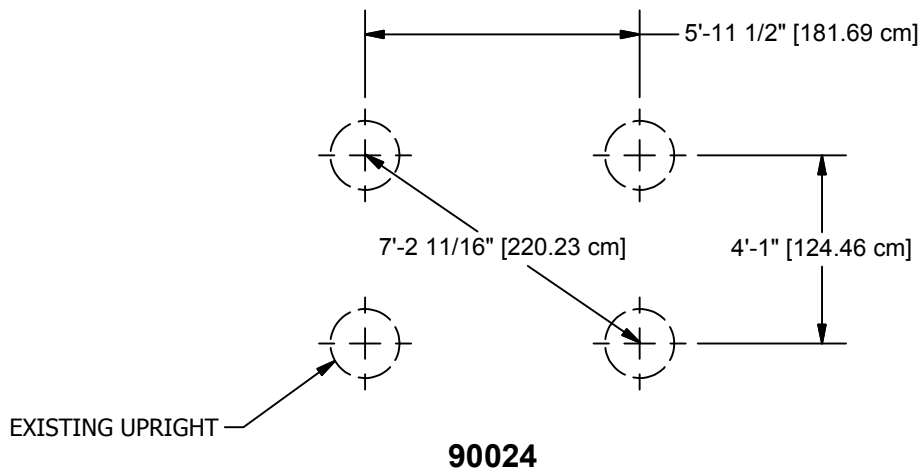
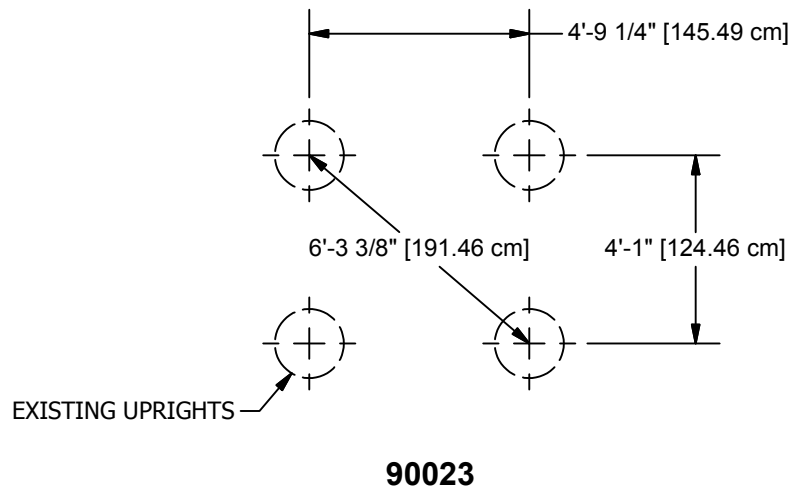
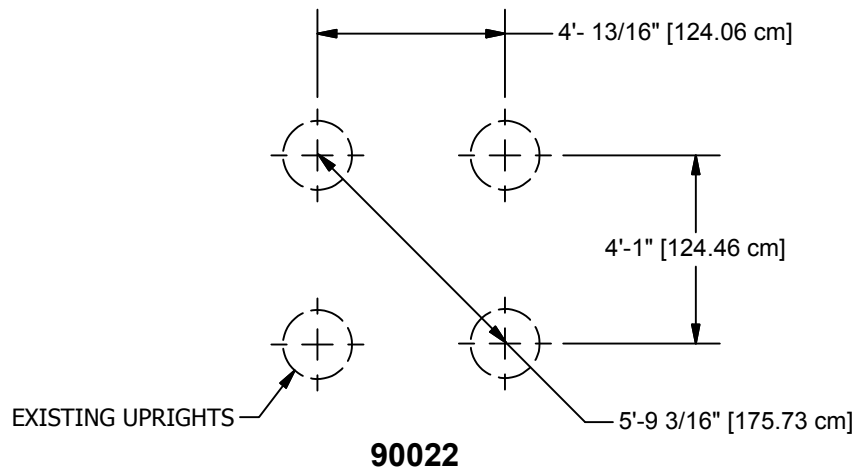


90020



90021

GROUND PLANS



GROUND PLANS

Parts List							
REF.	DESCRIPTION	90020	90021	90022	90023	90024	PART NUMBER
1	RIGHT BARRIER WELD ASSEMBLY	1	0	0	0	0	203370
1	RIGHT BARRIER WELD ASSEMBLY	0	1	0	0	0	203384
1	RIGHT BARRIER WELD ASSEMBLY	0	0	1	0	0	203397
1	RIGHT BARRIER WELD ASSEMBLY	0	0	0	1	0	203417
1	RIGHT BARRIER WELD ASSEMBLY	0	0	0	0	1	203431
2	LEFT BARRIER WELD ASSEMBLY	1	0	0	0	0	203379
2	LEFT BARRIER WELD ASSEMBLY	0	1	0	0	0	203392
2	LEFT BARRIER WELD ASSEMBLY	0	0	1	0	0	203411
2	LEFT BARRIER WELD ASSEMBLY	0	0	0	1	0	203425
2	LEFT BARRIER WELD ASSEMBLY	0	0	0	0	1	203435
3	1' COATED STEPLINK	1	0	0	0	0	161235
3	2' STEP ASSEMBLY	0	1	0	0	0	160670
3	2'-6' STEP ASSEMBLY	0	0	1	0	0	167494
3	3' STEP ASSEMBLY	0	0	0	1	0	161371
3	4' STEP ASSEMBLY	0	0	0	0	1	160667
	TRU-LOC	4	4	4	4	4	A03650
	HARDWARE COMPLETE	1	1	1	1	1	203545
	3/8" x 3/4" P.B.H.C.S. w/PATCH	8	8	8	8	8	812052*
	3/8" x 2" P.B.H.C.S. w/PATCH	4	4	4	4	4	812055*
	3/8" FLAT WASHER (1 1/4" O.D.)	8	8	8	8	8	817424*
	3/8" LOCKWASHER	12	12	12	12	12	817334*
	3/8" T-NUT	8	8	8	8	8	804556*
	ALUM. PIN	4	4	4	4	4	203568*

Unless Otherwise Specified, All Units of Measure are Each
 * Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

**Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
 Note: Loctite (supplied by others) should be used on any non-patch hardware.**

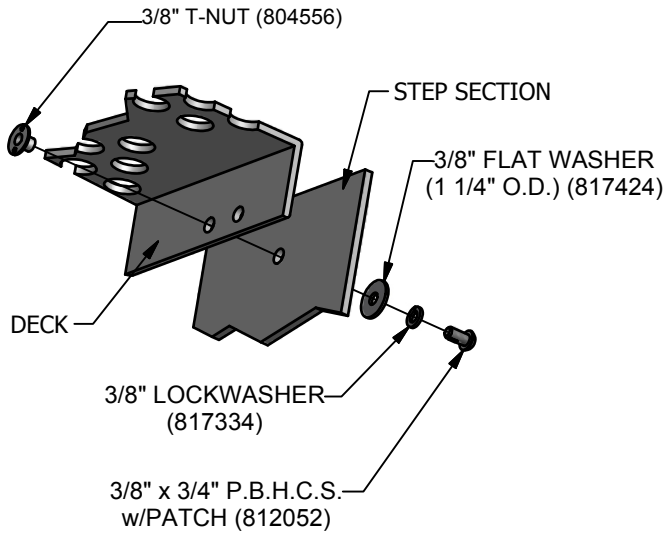
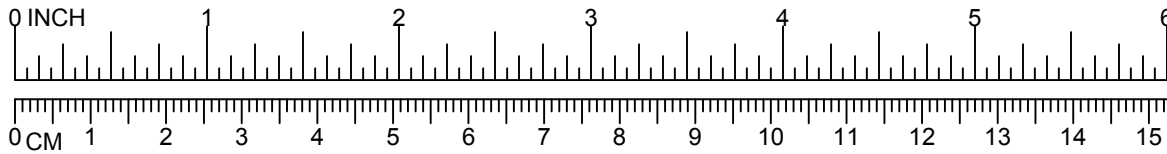
DETAILS -for- **90020, 90021, 90022, 90023, 90024**

IMPORTANT

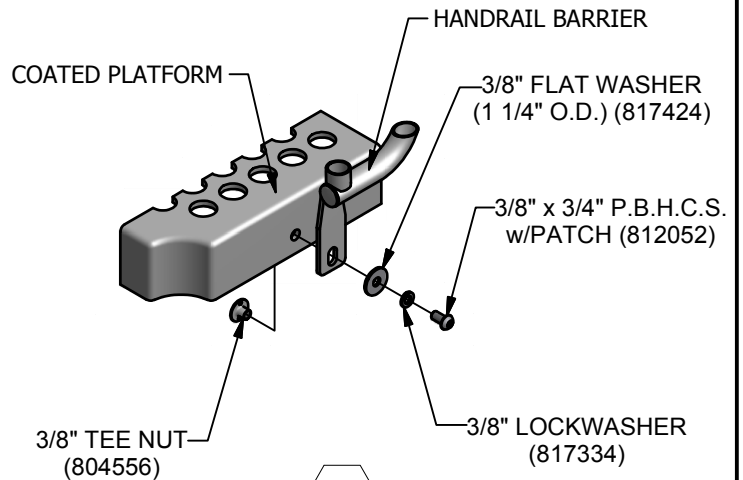
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
 PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
 SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

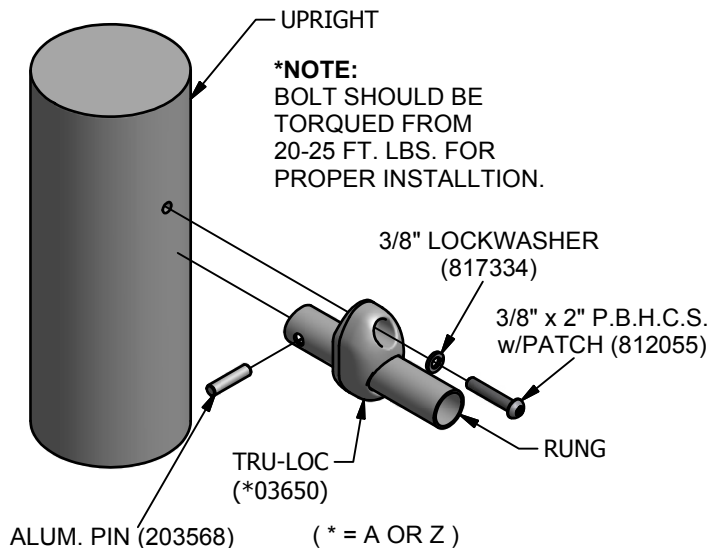
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



101



674



747

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ISSUED/REVISED: 02/27/12

90103 SCHOONER CLIMBER

 = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

REFER TO MODULAR EQUIPMENT
TOP VIEW FOR CORRECT
ENTRYWAY NUMBER

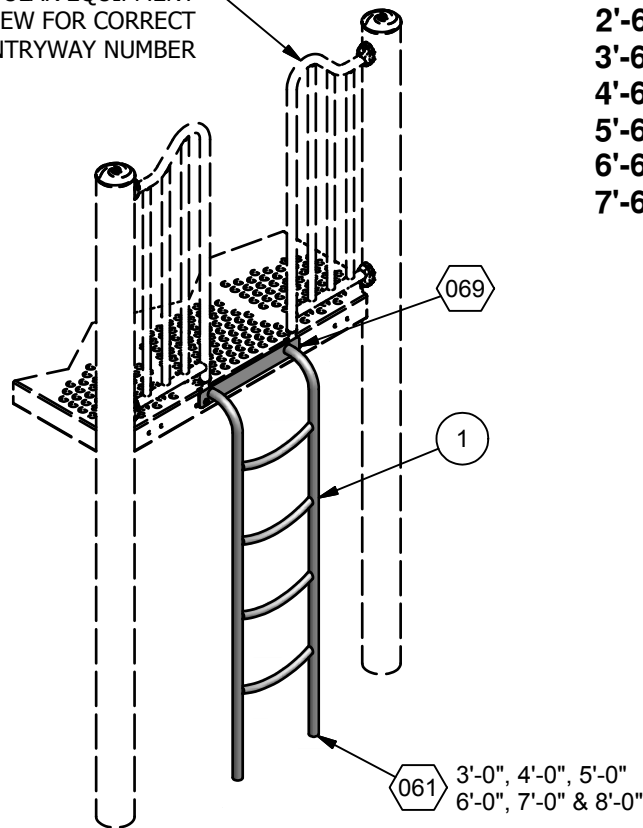


90103
90104
90105
90106



90107
90108
90109

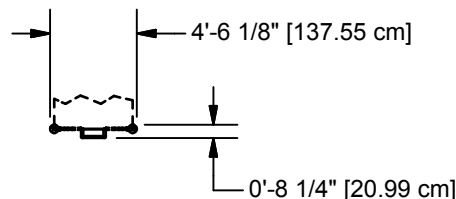
2'-0"	90103
2'-6" & 3'-0"	90104
3'-6" & 4'-0"	90105
4'-6" & 5'-0"	90106
5'-6" & 6'-0"	90107
6'-6" & 7'-0"	90108
7'-6" & 8'-0"	90109



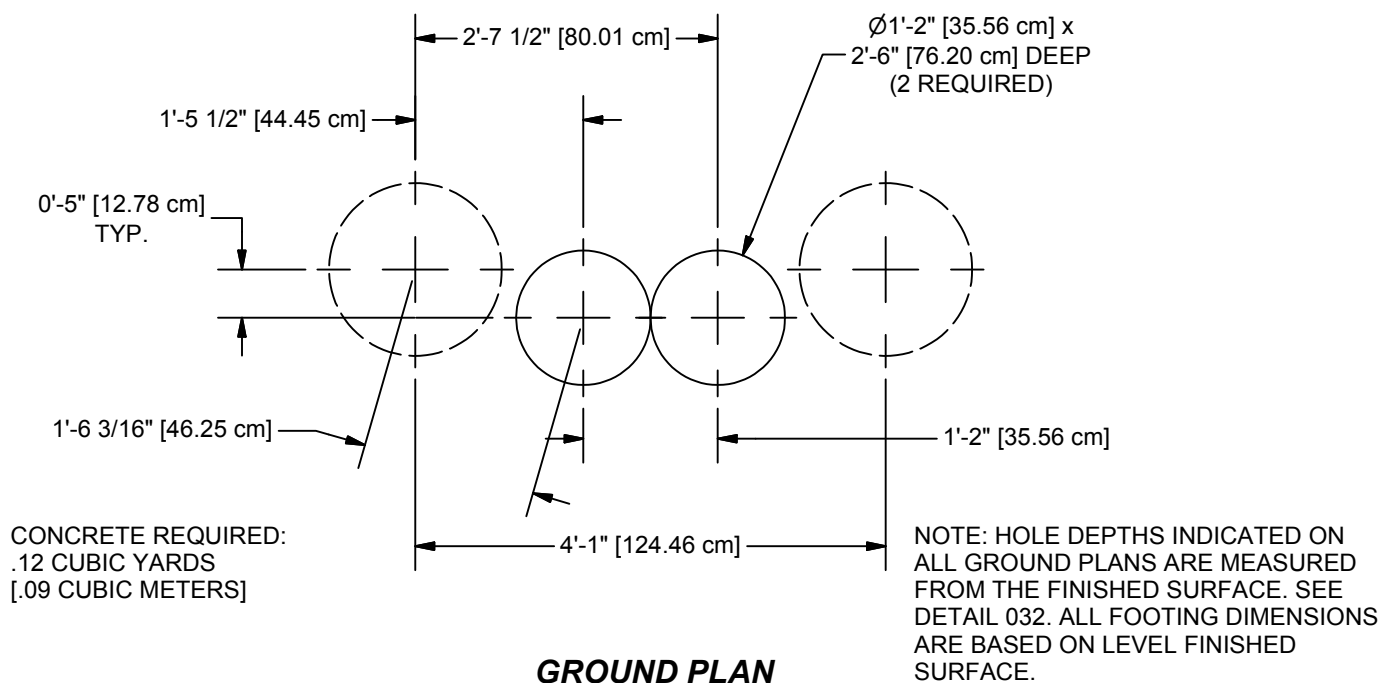
ASSEMBLY DRAWING
5'-0" 90106 SHOWN

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



TOP VIEW



Parts List									
REF.	DESCRIPTION	90103	90104	90105	90106	90107	90108	90109	PART NUMBER
1	SCHOONER CLIMBER WELD ASS'Y	1	0	0	0	0	0	0	200473
1	SCHOONER CLIMBER WELD ASS'Y	0	1	0	0	0	0	0	200469
1	SCHOONER CLIMBER WELD ASS'Y	0	0	1	0	0	0	0	200307
1	SCHOONER CLIMBER WELD ASS'Y	0	0	0	1	0	0	0	200462
1	SCHOONER CLIMBER WELD ASS'Y	0	0	0	0	1	0	0	200466
1	SCHOONER CLIMBER WELD ASS'Y	0	0	0	0	0	1	0	200479
1	SCHOONER CLIMBER WELD ASS'Y	0	0	0	0	0	0	1	200482
	HARDWARE COMPLETE	1	0	0	0	0	0	0	203664
	HARDWARE COMPLETE	0	1	1	1	1	1	1	203665
	1.029" O.D. EXTENSION	0	2	2	2	2	2	2	158359*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	2	2	2	2	2	812052*
	3/8" x 2" HEX HEAD BOLT	0	2	2	2	2	2	2	801007*
	3/8" LOCKWASHER	2	4	4	4	4	4	4	817334*
	3/8" HEX NUT	0	2	2	2	2	2	2	804053*
	3/8" T-NUT	2	2	2	2	2	2	2	804556*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

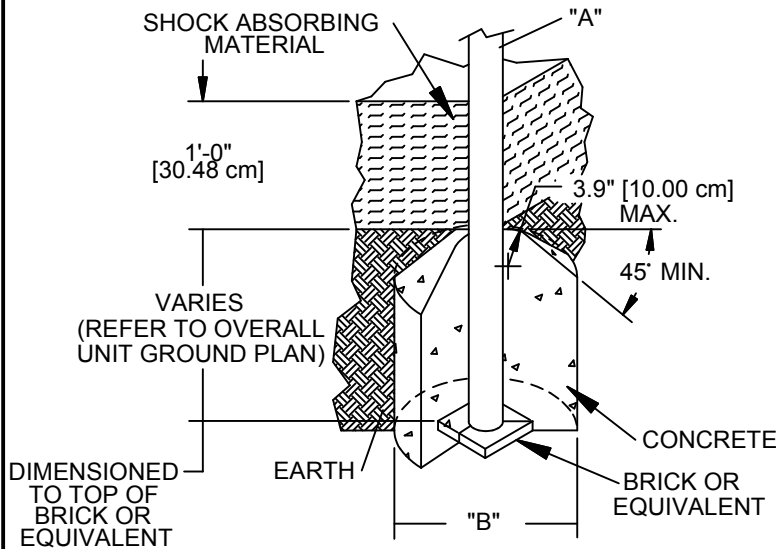
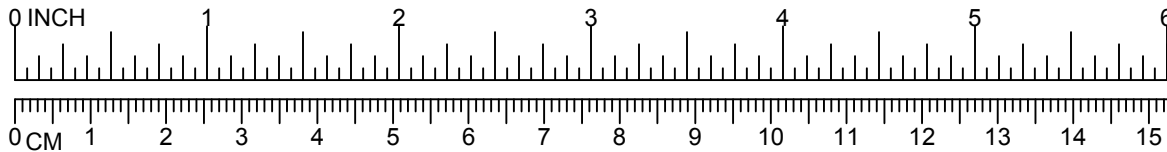
DETAILS -for- **90103, 90104, 90105, 90106, 90107, 90108 & 90109**

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
 PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
 SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



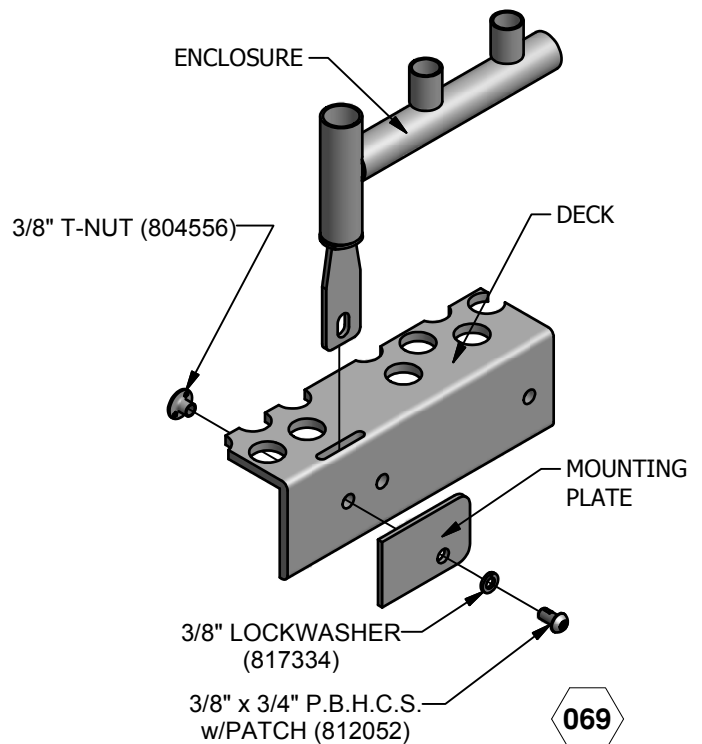
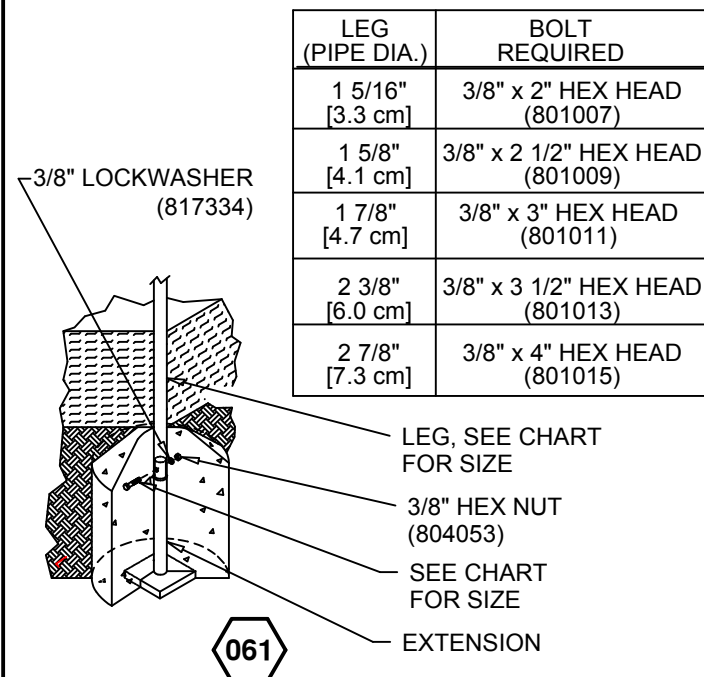
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

-SLOPED FOOTING IS A REQUIREMENT
 OF EUROPEAN STANDARD EN1176-1 ONLY
 -SUGGESTED MINIMUM CONCRETE
 RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING
 MATERIALS VARY. IF YOU DETERMINE THAT LESS
 THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED,
 MAKE UP THE DIFFERENCE IN ELEVATION WITH
 EARTH, BEFORE APPLYING SURFACING.



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ISSUED/REVISED: 05/23/12

90144 CORNER VINE CLIMBER

⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE

REFER TO MODULAR EQUIPMENT
TOP VIEW FOR CORRECT
ARCHWAY NUMBER



RIGHT OFFSET ENTRY ARCHWAY

4'-0" 90144

4'-6" & 5'-0" 90146

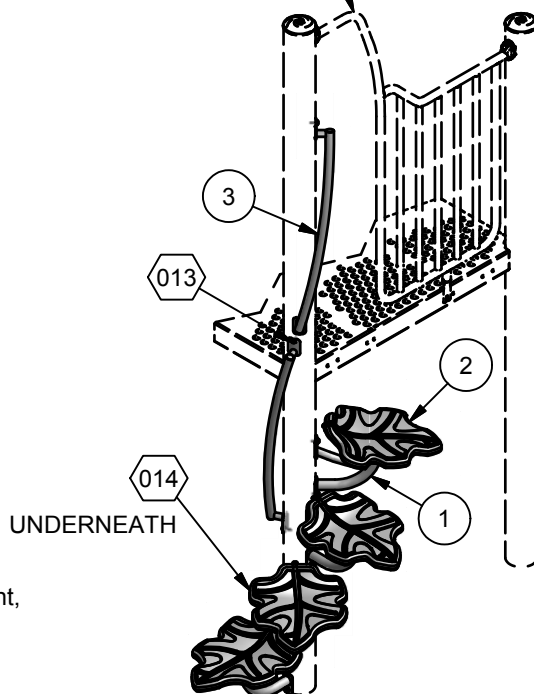
5'-6" & 6'-0" 90148

LEFT OFFSET ENTRY ARCHWAY

4'-0" 90145

4'-6" & 5'-0" 90147

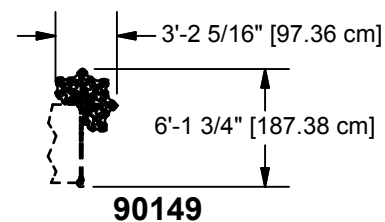
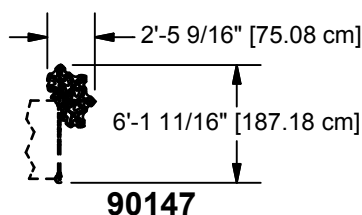
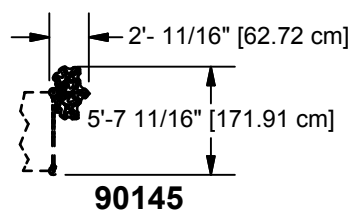
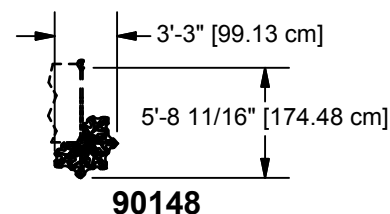
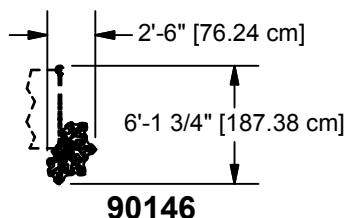
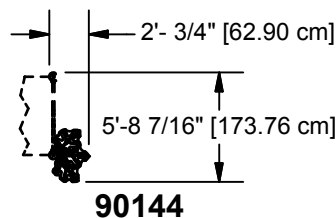
5'-6" & 6'-0" 90149



**ASSEMBLY VIEW
90146 SHOWN**

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



TOP VIEWS

Parts List								
REF NO.	DESCRIPTION	90144	90145	90146	90147	90148	90149	PART NUMBER
1	LEAF BRACKET	3	3	4	4	5	5	201695
2	LEAF STEP	3	3	4	4	5	5	201413
3	HANDHOLD	1	0	2	0	2	0	201685
3	HANDHOLD REVERSE	0	1	0	2	0	2	202319
	HARDWARE COMPLETE	1	1	0	0	0	0	203787
	HARDWARE COMPLETE	0	0	1	1	0	0	203788
	HARDWARE COMPLETE	0	0	0	0	1	1	203789
	3/8" x 1" P.B.H.C.S. w/PATCH	12	12	16	16	20	20	812050*
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	8	8	12	12	14	14	812051*
	3/8" FLAT WASHER	12	12	16	16	20	20	817410*
	3/8" LOCKWASHER	20	20	28	28	34	34	817334*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

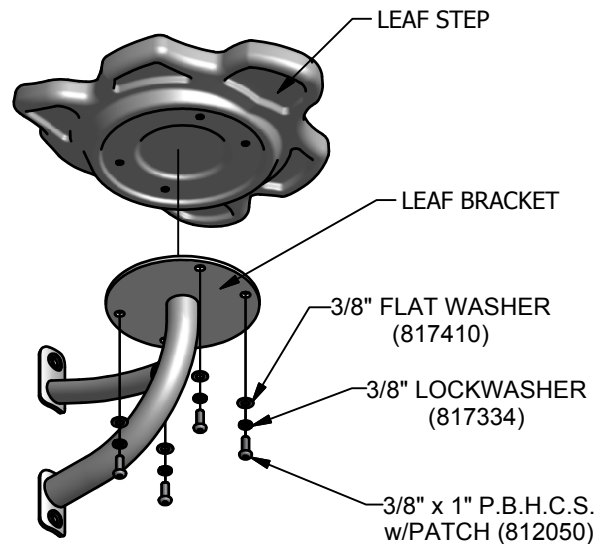
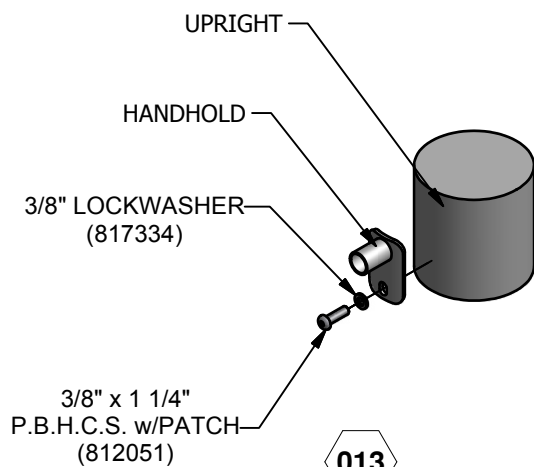
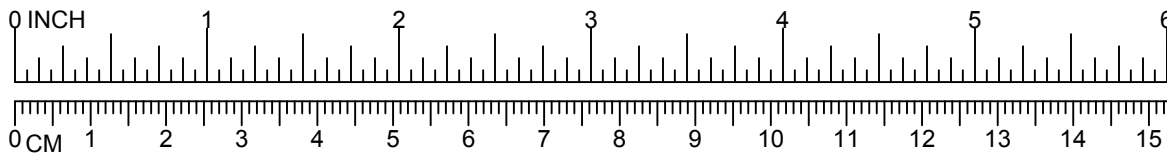
DETAILS -for- **90144, 90145, 90146, 90147, 90148 & 90149**

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
 PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
 SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



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ISSUED/REVISED: 07/17/12

90225 DECORATIVE PANEL

⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE

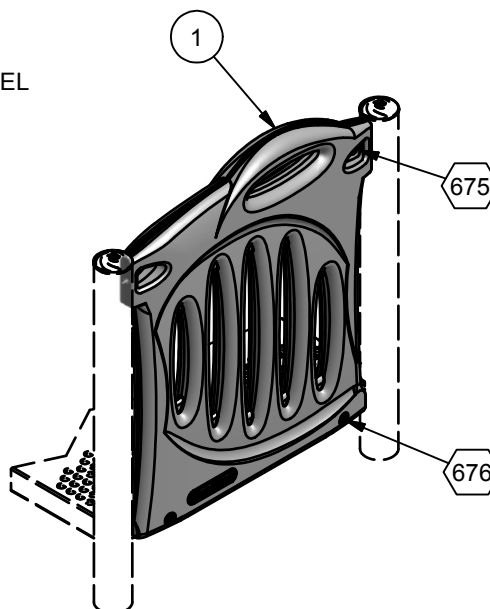
NOTE: DECORATIVE PANEL
(203438) MUST BE
CENTERED IN DECK
OPENING



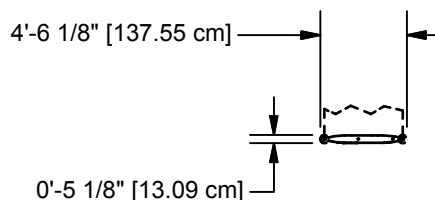
UP TO 5'-0"
DECK HEIGHTS



ALL
DECK HEIGHTS



ASSEMBLY DRAWING



TOP VIEW

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	DECORATIVE PANEL	1	203438
	HARDWARE COMPLETE	1	203588
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	4	812056*
	3/8" FLAT WASHER (1 1/4" O.D.)	4	817424*
	3/8" LOCKWASHER	4	817334*
	3/8" T-NUT	2	804556*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

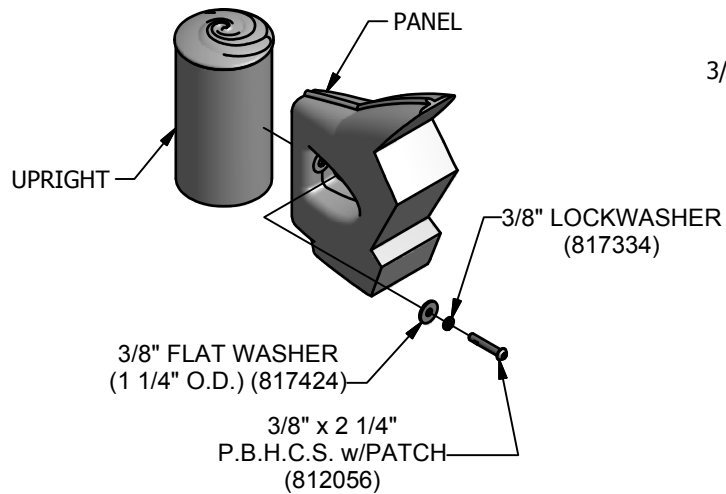
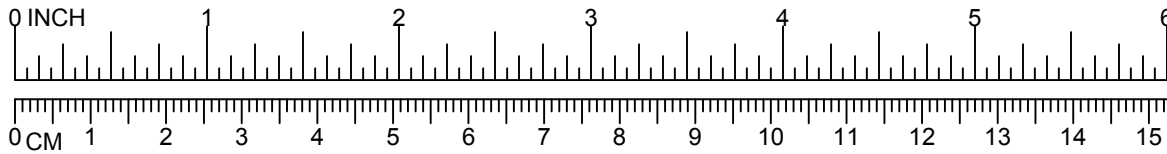
DETAILS -for- 90225

IMPORTANT

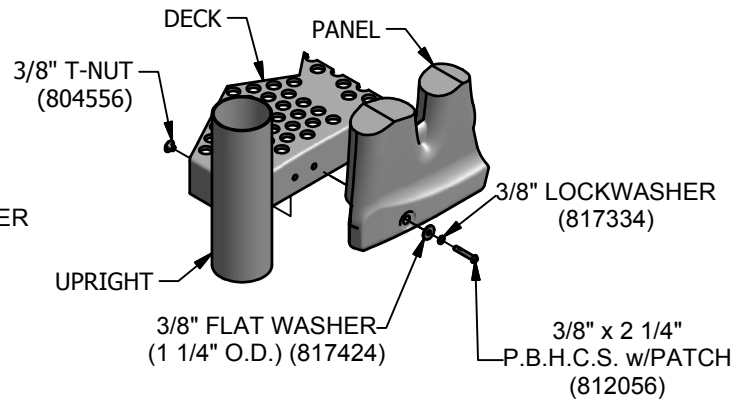
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



675



676

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ISSUED/REVISED: 12/13/12

90243 CHAIN LINK CLIMBER

- = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE



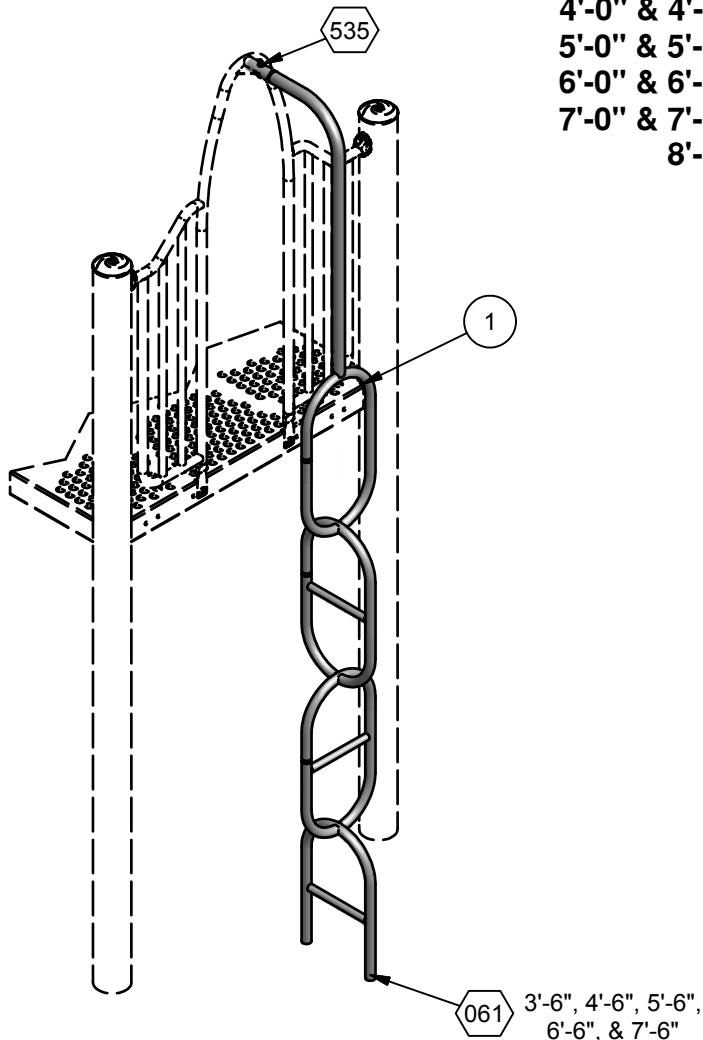
90243
 90244
 90245 5'-0"



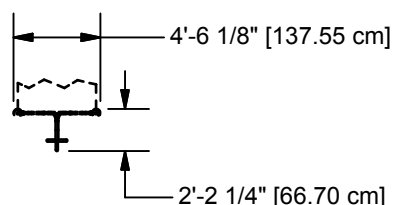
90245 5'-6"
 90246
 90247
 90248

INSTALLATION INSTRUCTIONS

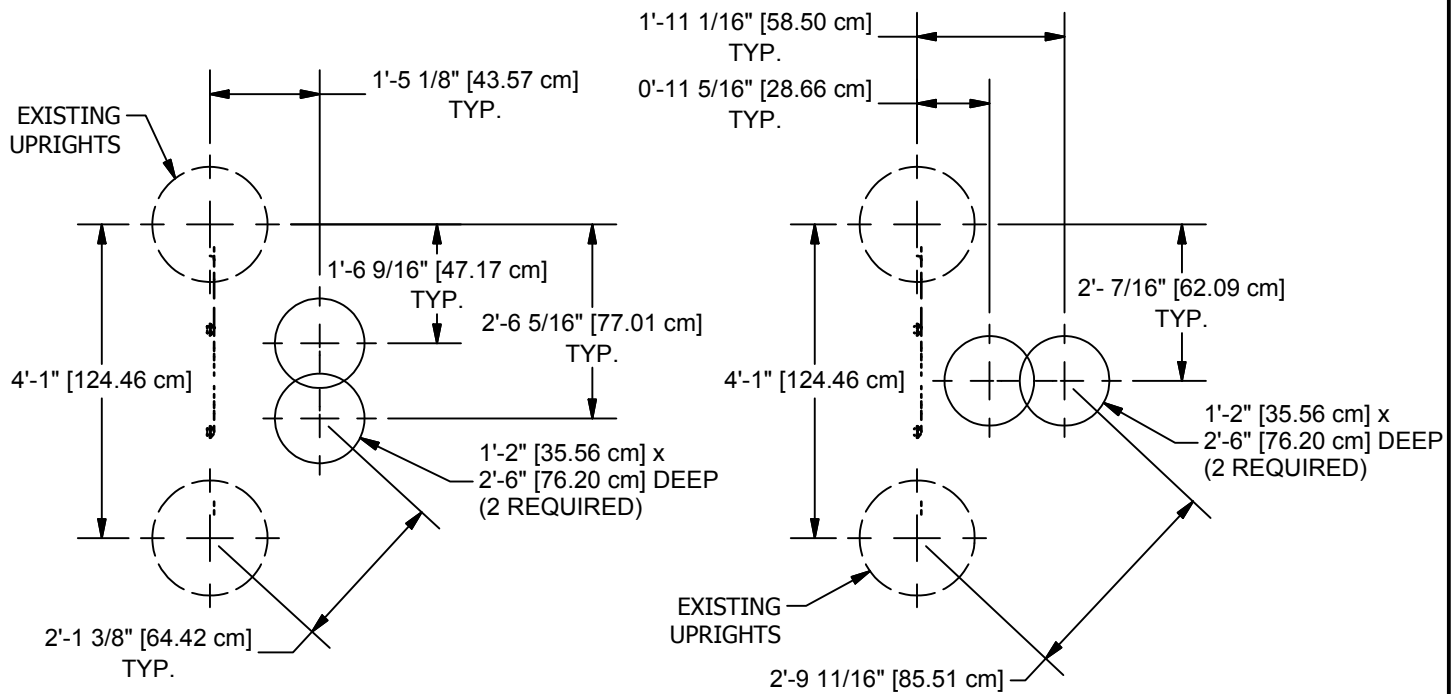
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



ASSEMBLY DRAWING 90246 SHOWN



TOP VIEW



90243, 90244, 90247, & 90248

90245 & 90246

CONCRETE REQUIRED
.12 CUBIC YARDS
[.1 CUBIC METERS]

GROUND PLANS

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

Parts List								
REF.	DESCRIPTION	90243	90244	90245	90246	90247	90248	PART NUMBER
1	CHAIN LINK CLIMBER ASS'Y	1	0	0	0	0	0	178969
1	CHAIN LINK CLIMBER ASS'Y	0	1	0	0	0	0	178971
1	CHAIN LINK CLIMBER ASS'Y	0	0	1	0	0	0	178973
1	CHAIN LINK CLIMBER ASS'Y	0	0	0	1	0	0	178975
1	CHAIN LINK CLIMBER ASS'Y	0	0	0	0	1	0	203584
1	CHAIN LINK CLIMBER ASS'Y	0	0	0	0	0	1	203031
	HARDWARE COMPLETE	1	1	1	1	1	0	203660
	HARDWARE COMPLETE	0	0	0	0	0	1	203661
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	1	1	1	1	1	1	812053*
	3/8" x 2" HEX HEAD BOLT	2	2	2	2	2	0	801007*
	3/8" FLAT WASHER	1	1	1	1	1	1	817410*
	3/8" LOCKWASHER	2	2	2	2	2	0	817334*
	3/8" BARREL NUT	1	1	1	1	1	1	804804*
	3/8" HEX NUT	2	2	2	2	2	0	804053*
	1.029" O.D. EXTENSION	2	2	2	2	2	0	158359*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

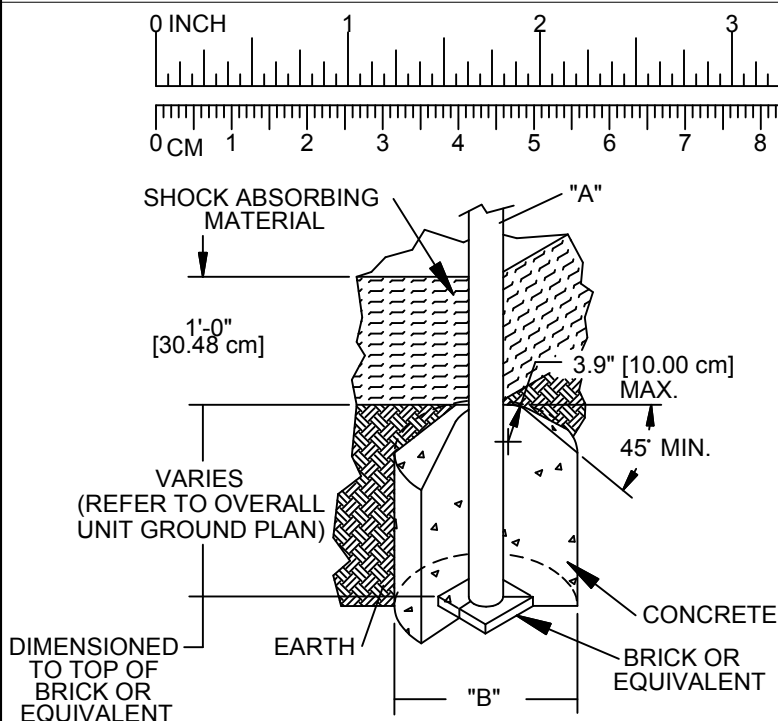
DETAILS -for- 90243-90248

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

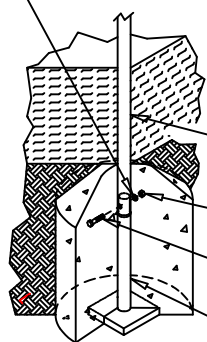
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

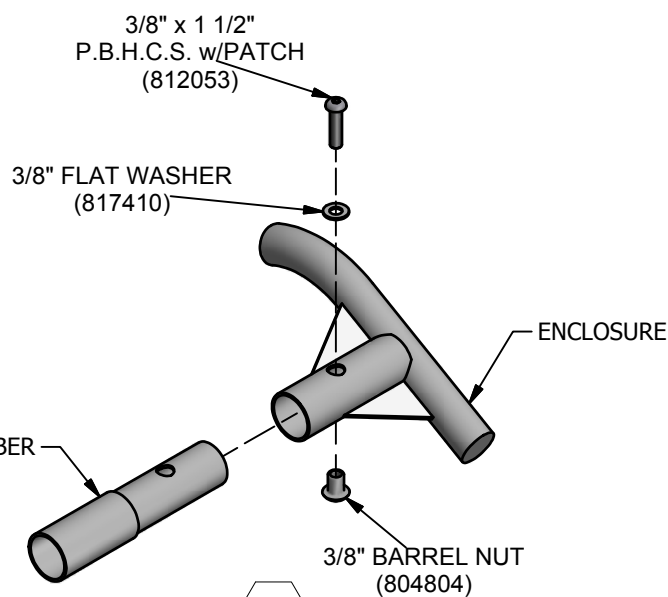
SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

LEG (PIPE DIA.)	BOLT REQUIRED
1 5/16" [3.3 cm]	3/8" x 2" HEX HEAD (801007)
1 5/8" [4.1 cm]	3/8" x 2 1/2" HEX HEAD (801009)
1 7/8" [4.7 cm]	3/8" x 3" HEX HEAD (801011)
2 3/8" [6.0 cm]	3/8" x 3 1/2" HEX HEAD (801013)
2 7/8" [7.3 cm]	3/8" x 4" HEX HEAD (801015)

3/8" LOCKWASHER (817334)



061



535

PowerScape



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1-800-235-2440

ISSUED/REVISED: 10/7/13

90305 ARCHWAY w/ SOCKET

⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE



90305
2'-6"
OR
BELOW

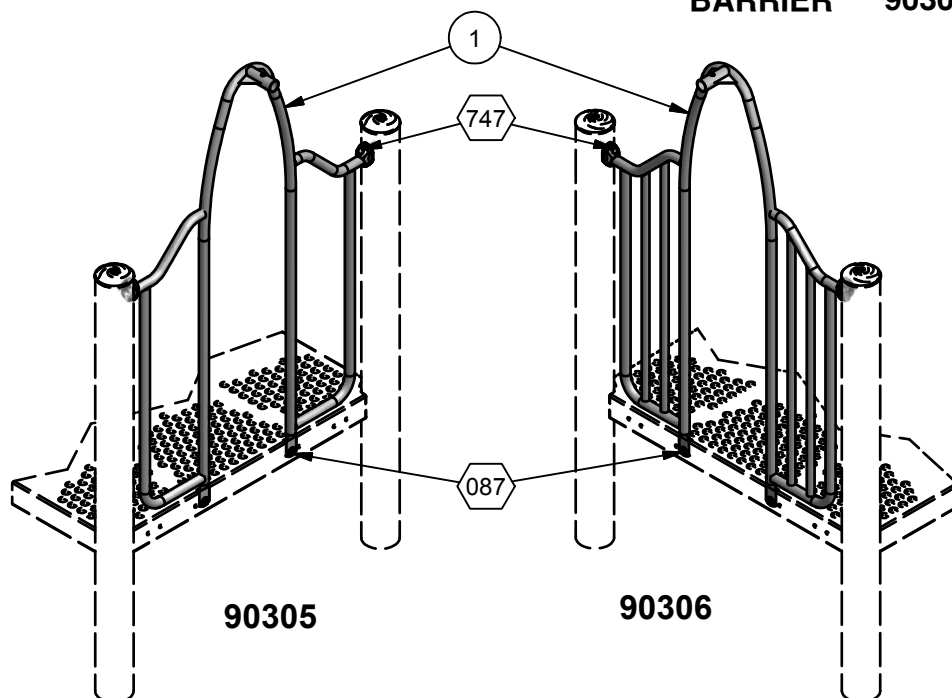


90306



90305
4'-0"
OR
BELOW

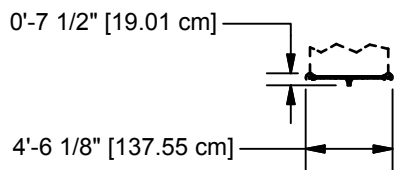
GUARDRAIL
BARRIER 90305
90306



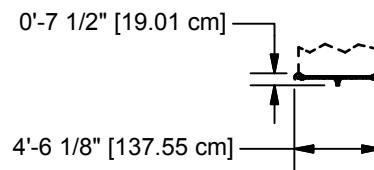
ASSEMBLY DRAWINGS

INSTALLATION INSTRUCTIONS

- Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
- Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



90305



90306

TOP VIEWS

Parts List				
REF.	DESCRIPTION	90305	90306	PART NUMBER
1	ARCHWAY	1	0	206338
1	ARCHWAY W/INFILL WELD ASS'Y	0	1	206336
	TRU-LOC	2	2	Z03650
	HARDWARE COMPLETE	1	1	206595
	3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	812052*
	3/8" x 2" P.B.H.C.S. w/PATCH	2	2	812055*
	3/8" LOCKWASHER	4	4	817334*
	3/8" FLAT WASHER (1 1/4" O.D.)	2	2	817424*
	3/8" T-NUT	2	2	804556*
	ALUM. PIN	2	2	203568*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

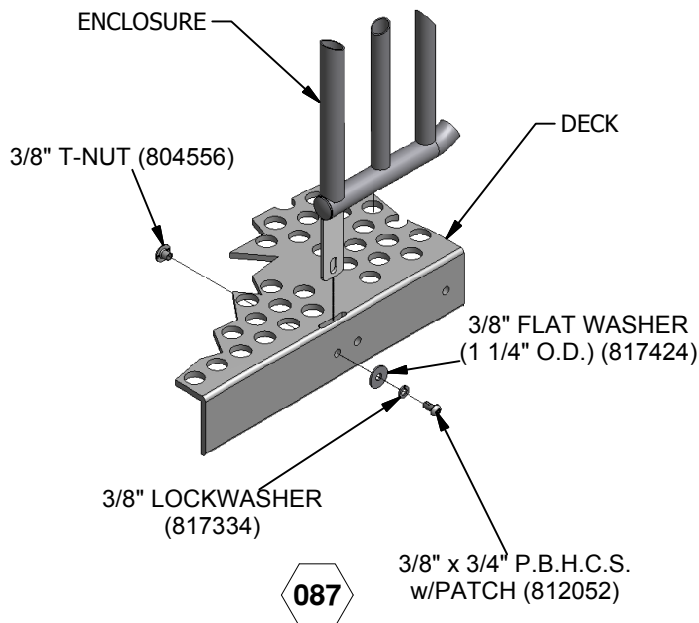
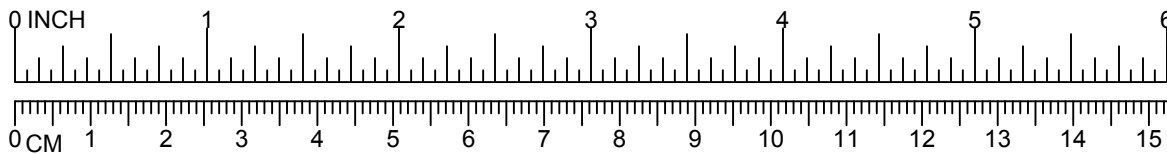
DETAILS -for- 90305 & 90306

IMPORTANT

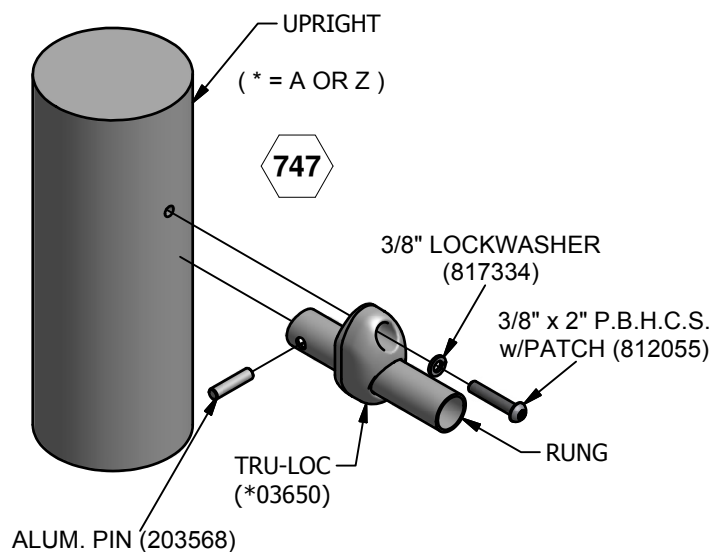
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



***NOTE:**
BOLT SHOULD BE
TORQUED FROM
20-25 FT. LBS. FOR
PROPER INSTALLTION.



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ISSUED/REVISED: 7/23/2014

90317 TOAD STOOL CLIMBER

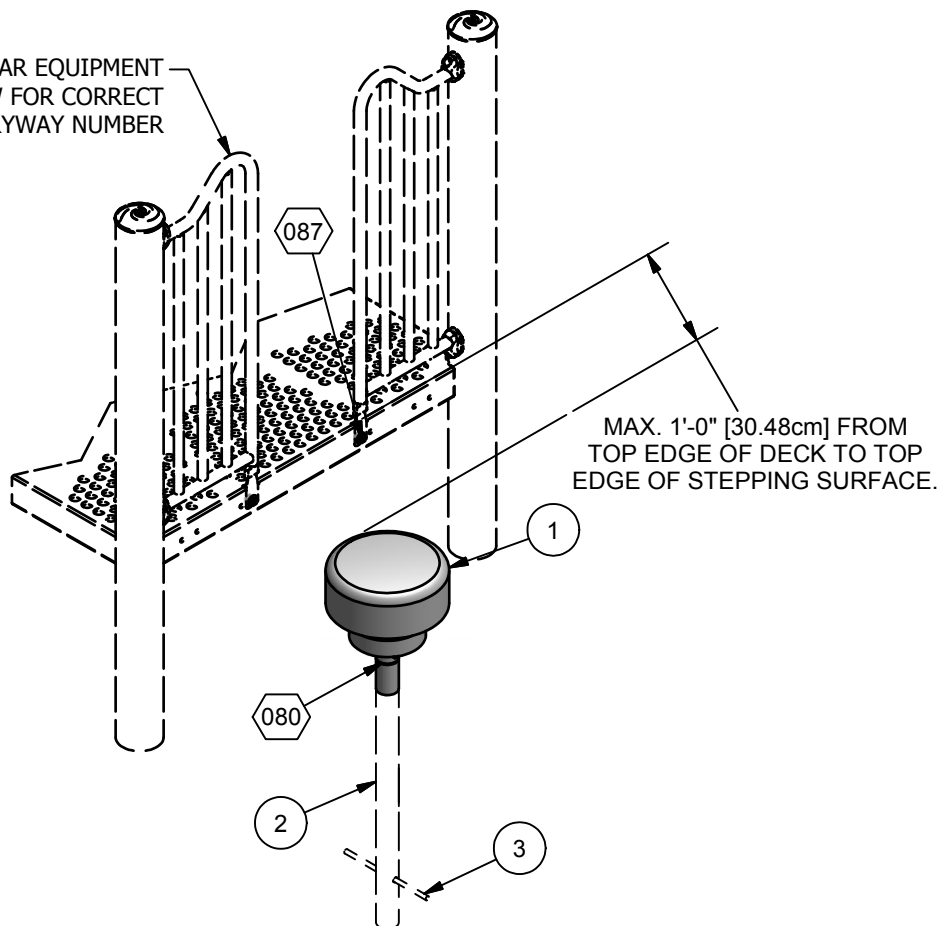
⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE

1'-0" THRU 2'-0" 90317



REFER TO MODULAR EQUIPMENT
TOP VIEW FOR CORRECT
ENTRYWAY NUMBER

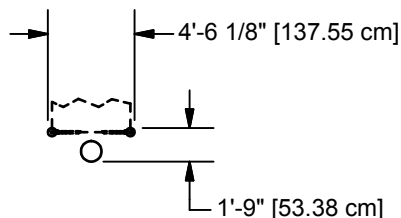


DISTANCE BETWEEN ALL
STEPPING SURFACES TO BE
NO GREATER THAN
1'-0" [30.48cm] APART

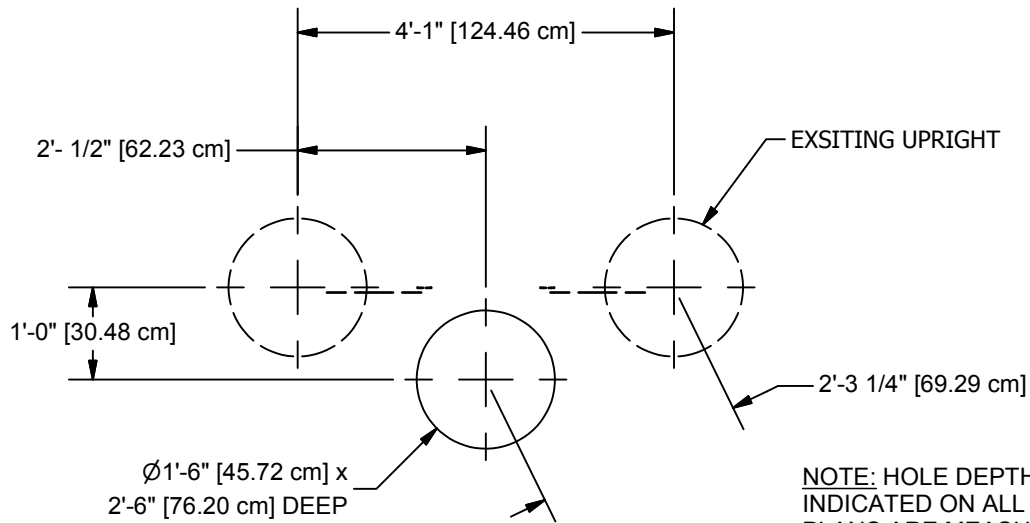
ASSEMBLY DRAWING

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



TOP VIEW



NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED:
.10 CUBIC YARDS
[.08 CUBIC METERS]

GROUND PLAN

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	TOAD STOOL	1	157594
2	GROUND EXTENSION (16") HEIGHT	1	156351
	HARDWARE COMPLETE	1	203670
3	1/2" ANCHOR ROD	1	135038*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052*
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056*
	3/8" FLAT WASHER (1 1/4" O.D.)	2	817424*
	3/8" LOCKWASHER	4	817334*
	3/8" T-NUT	4	804556*

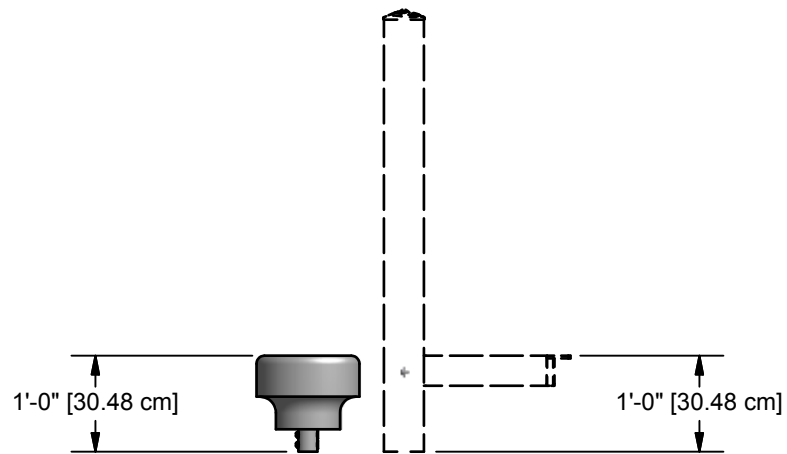
Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

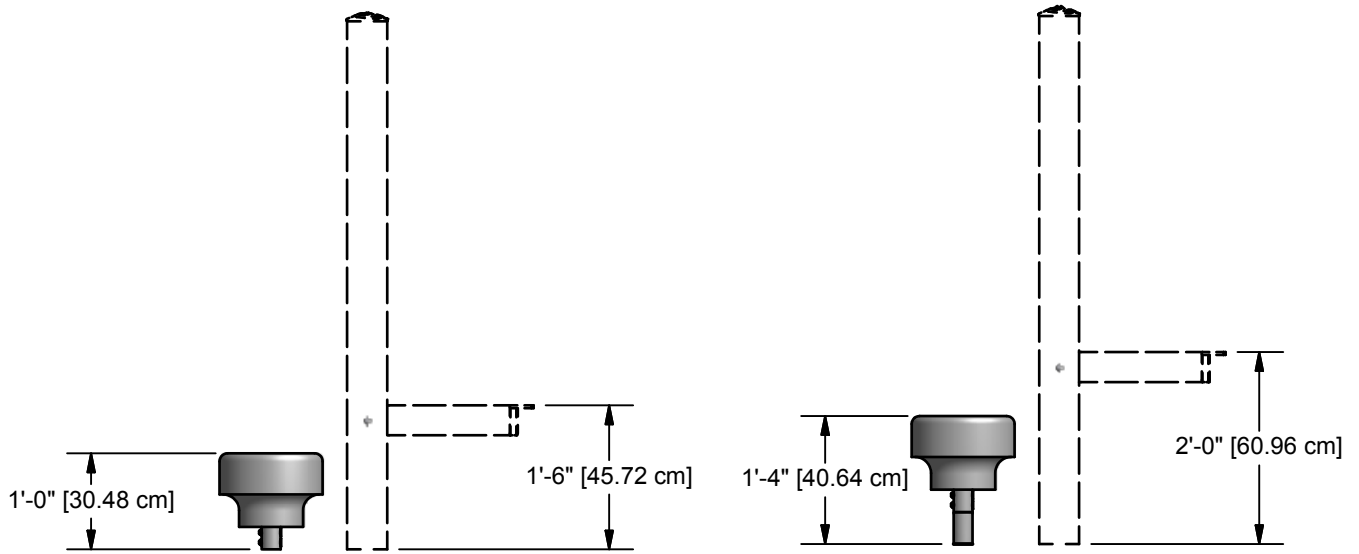
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

SIDE ELEVATION VIEWS



1' DECK



1' 6" DECK

2' DECK

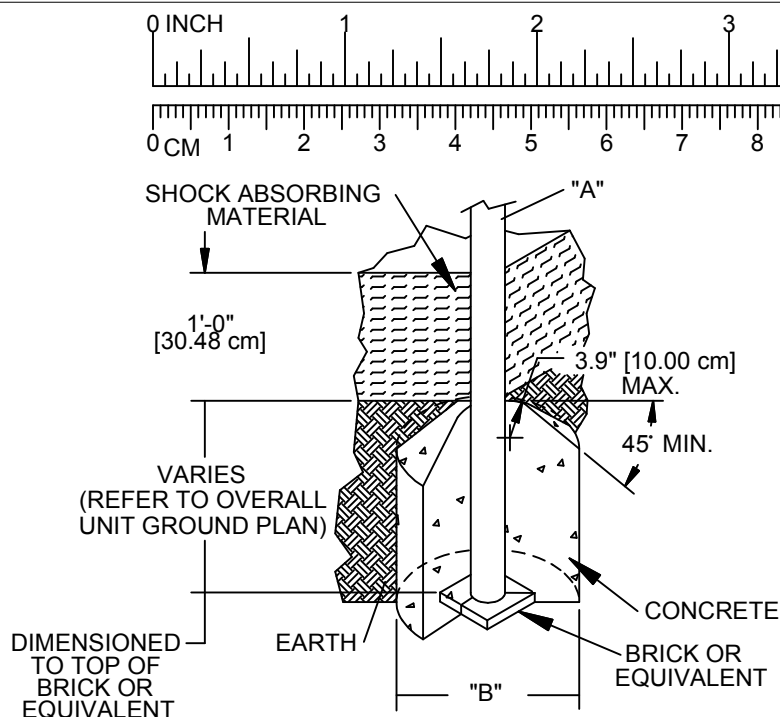
DETAILS -for- 90317

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



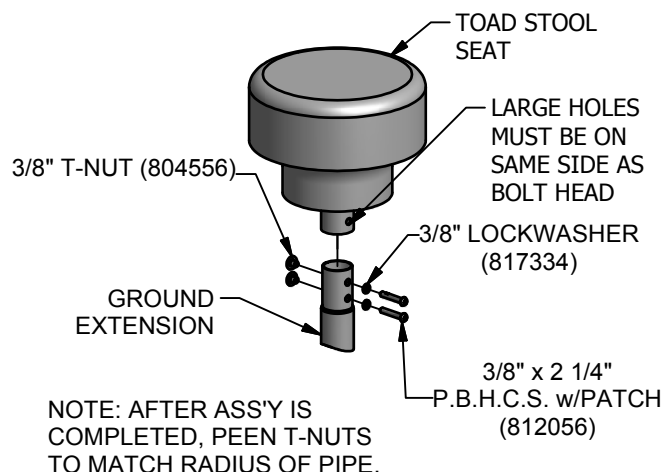
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

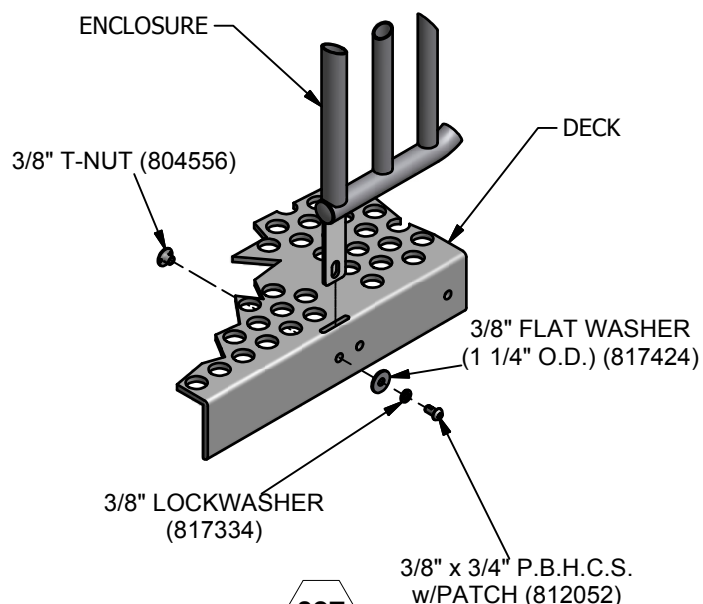
032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



NOTE: AFTER ASS'Y IS COMPLETED, PEEN T-NUTS TO MATCH RADIUS OF PIPE.

080



087

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1-800-235-2440

ISSUED/REVISED: 8/23/13

90335

CLIMBER OFFSET ARCHWAY

⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE

GUARDRAIL 90335
BARRIER 90336



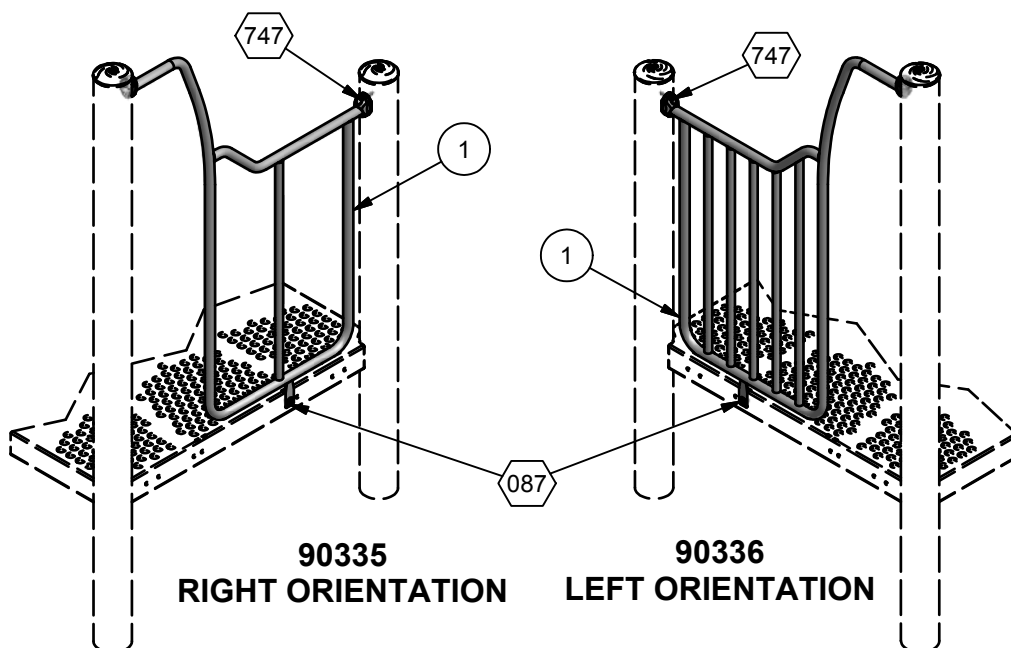
90335
2'-6"
OR
BELOW



90336



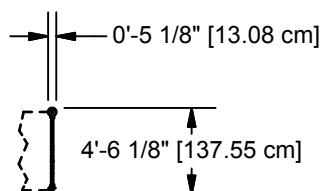
90335
4'-0"
OR
BELOW



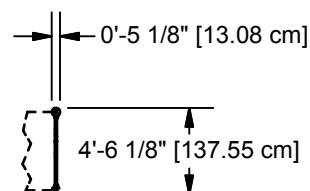
ASSEMBLY VIEWS

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



**90335
RIGHT ORIENTATION**



**90336
LEFT ORIENTATION**

TOP VIEWS

Parts List				
REF	DESCRIPTION	90335	90336	PART NUMBER
1	OFFSET GUARDRAIL ARCHWAY WELD ASS'Y	1	0	206011
1	OFFSET ARCHWAY w/INFILL WELD ASS'Y	0	1	206366
	TRU-LOC	2	2	Z03650
	HARDWARE COMPLETE	1	1	203781
	3/8" x 3/4" P.B.H.C.S. w/PATCH	1	1	812052*
	3/8" x 2" P.B.H.C.S. w/PATCH	2	2	812055*
	3/8" FLAT WASHER (1 1/4" O.D.)	1	1	817424*
	3/8" LOCKWASHER	3	3	817334*
	3/8" T-NUT	1	1	804556*
	ALUM. PIN	2	2	203568*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

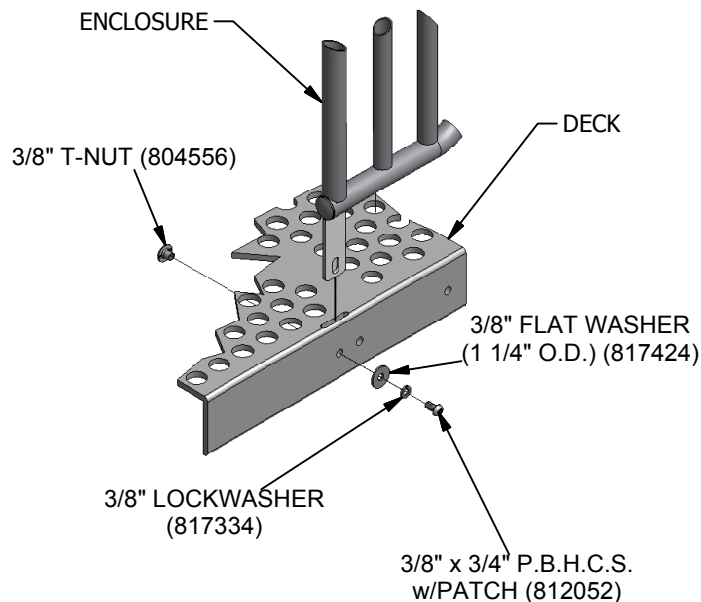
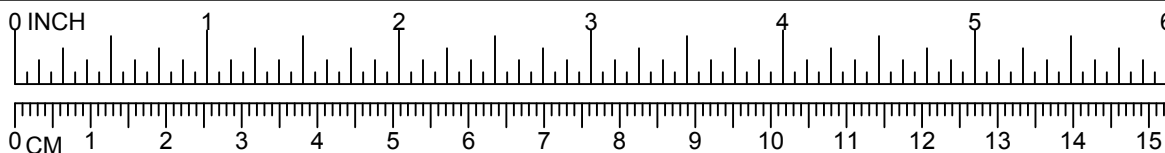
DETAILS -for- 90335 & 90336

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.

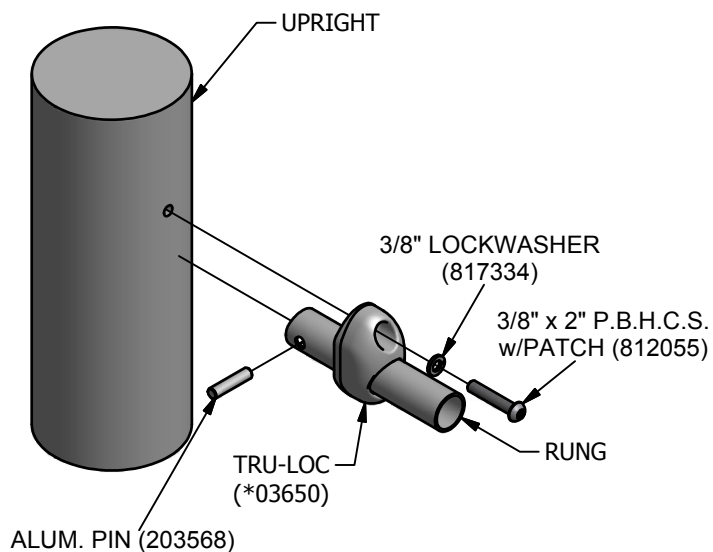


087

***NOTE:**
BOLT SHOULD BE
TORQUED FROM
20-25 FT. LBS. FOR
PROPER INSTALLTION.

(* = A OR Z)

747



STOREFRONT PANEL

⬡ = INSTALLATION
DETAIL

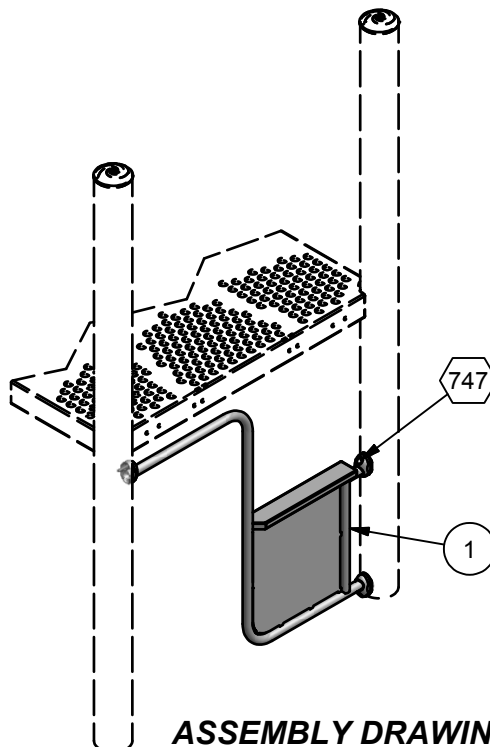
○ = PARTS LIST
REFERENCE



4'-0"
to
5'-0"



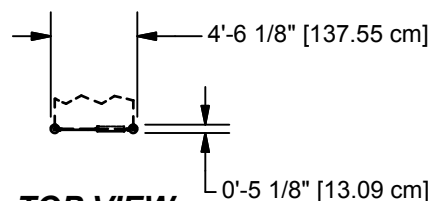
5'-6"
to
8'-0"



ASSEMBLY DRAWING

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



TOP VIEW

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	STOREFRONT ASS'Y	1	203930
	TRU-LOC	3	A03650
	HARDWARE COMPLETE	1	203936
	3/8" x 2" P.B.H.C.S. w/PATCH	3	812055*
	3/8" LOCKWASHER	3	817334*
	ALUM. PIN	3	203568*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

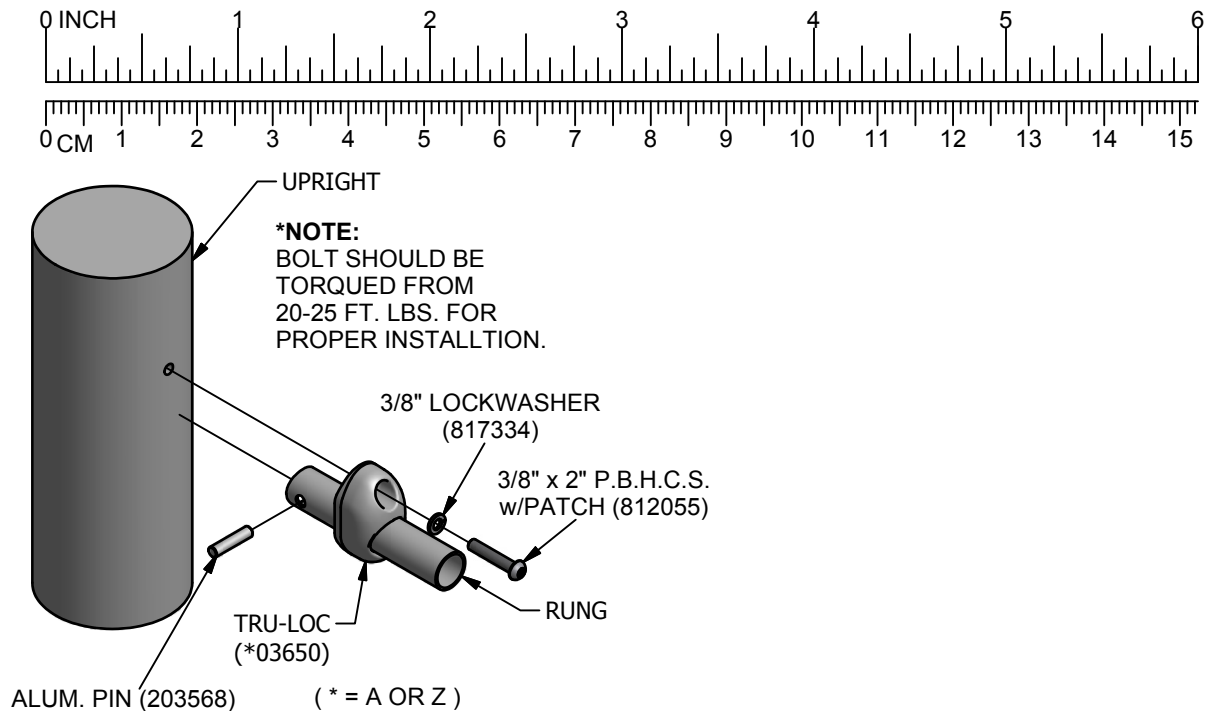
DETAILS -for- 90355

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



747

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1-800-235-2440

ISSUED/REVISED: 3/19/13

90503 ZIP SLIDE

- = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

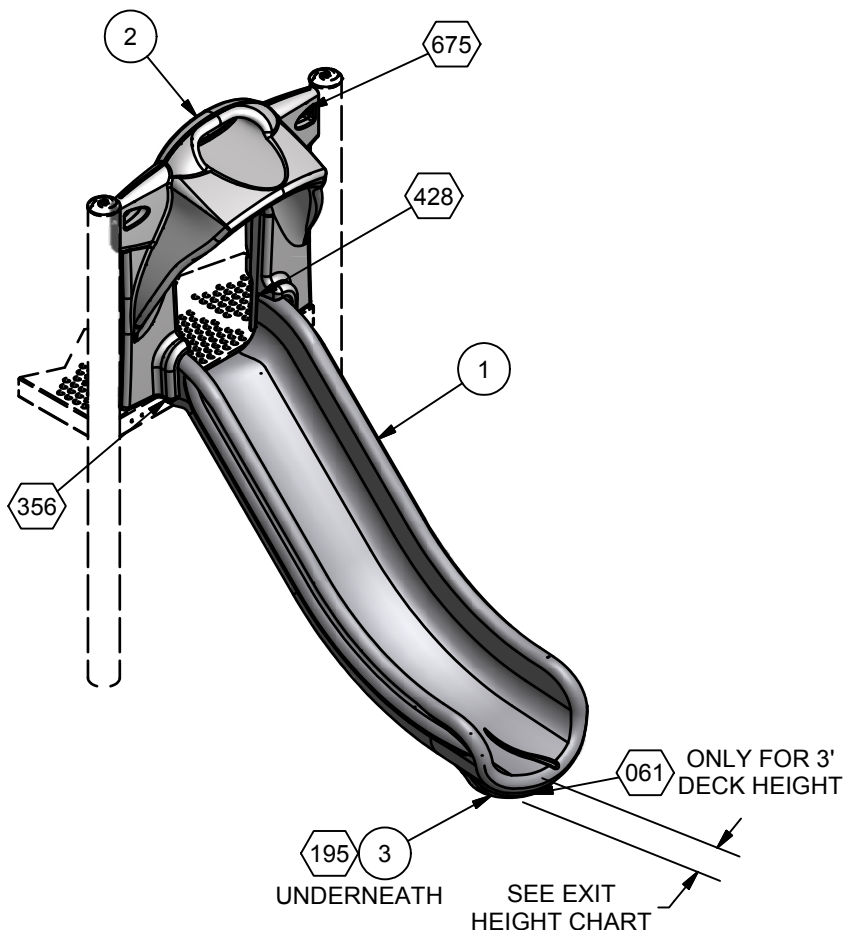
2'-6" / 3'-0" WAVE ZIP SLIDE 90503
 4'-0" ZIP SLIDE 90504
 5'-0" ZIP SLIDE 90505
 6'-0" WAVE ZIP SLIDE 90506



90503
90504
90505



ALL DECK
HEIGHTS



ASSEMBLY DRAWING 90504 SHOWN

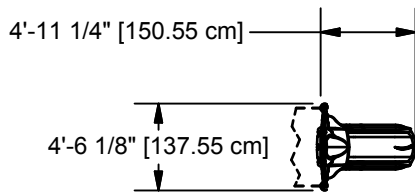
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

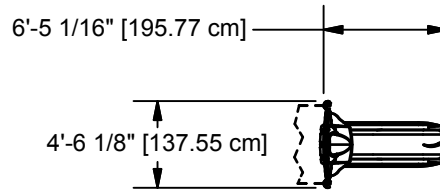
EXIT HEIGHT CHART -for- 3' & 4'	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	11" OR LESS
CSA	275mm OR LESS
EN	200mm OR LESS

EXIT HEIGHT CHART -for- 5' THRU 8'	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

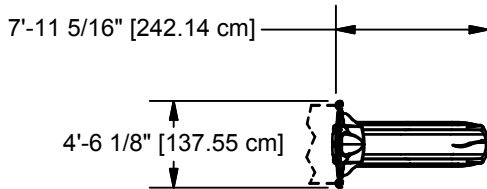
EXIT HEIGHT CHART	
PART NO.	SLIDE EXIT HEIGHT
90503 (2'-6")	0'-4 3/4" [12.07cm]
90503 (3'-0")	0'-10 3/4" [27.31cm]
90504 (4'-0")	0'-7" [17.78cm]
90505 (5'-0")	0'-9" [22.86cm]
90506 (6'-0")	0'-11" [27.94cm]



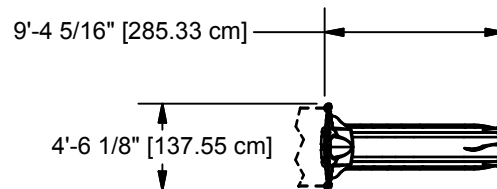
90503



90504



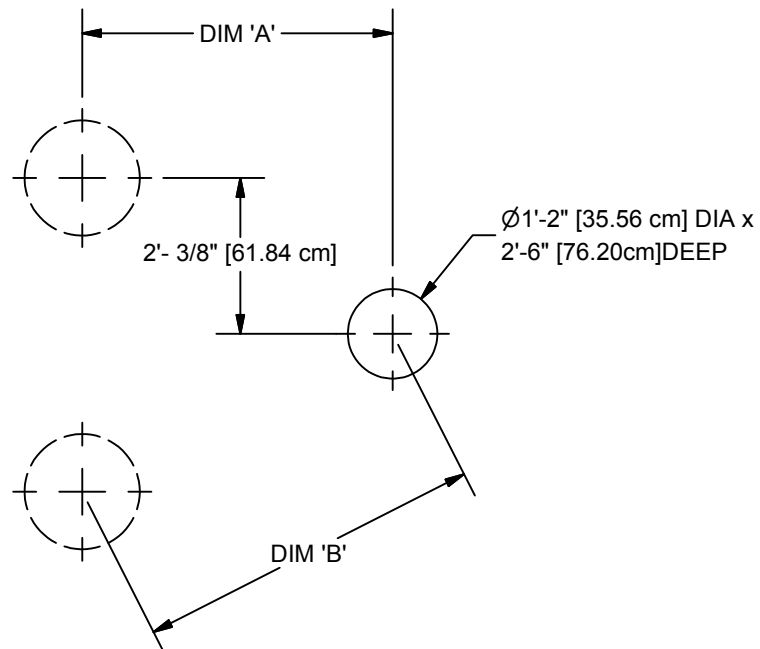
90505



90506

TOP VIEWS

PART NO.	DIM 'A'	DIM 'B'
90503 (2'-6", 3')	4'-01/16" [122.06cm]	4'-6" [137.16cm]
90504 (4')	5'-4 7/8" [164.78cm]	5'-9 5/16" [176.05cm]
90505 (5')	6'-10 7/8" [210.50cm]	7'-5 3/8" [227.01cm]
90506 (6')	8'-3 7/8" [253.68cm]	8'-6 13/16" [261.14cm]



GROUND PLAN

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED
.06 CUBIC YARDS
[.05 CUBIC METERS]

Parts List						
REF.	DESCRIPTION	90503	90504	90505	90506	PART NUMBER
1	3' ZIP SLIDE	1	0	0	0	176399
1	4' ZIP SLIDE	0	1	0	0	176186
1	5' ZIP SLIDE	0	0	1	0	176187
1	6' ZIP WAVE SLIDE	0	0	0	1	176154
2	SINGLE ZIP SLIDE HOOD	1	1	1	1	203858
3	FOOTBUCK	1	1	1	0	176385
3	FOOTBUCK	0	0	0	1	176384
	HARDWARE COMPLETE	0	1	1	1	204410
	HARDWARE COMPLETE	1	0	0	0	206107
	3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	2	2	812052*
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	2	2	2	812054*
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	2	2	2	812056*
	3/8" x 2 3/4" P.B.H.C.S. w/PATCH	2	2	2	2	812058*
	3/8" LOCKWASHER	9	8	8	8	817334*
	3/8" FLAT WASHER	2	2	2	2	817410*
	3/8" FLAT WASHER (1" O.D.)	2	2	2	2	817401*
	3/8" FLAT WASHER (1 1/4" O.D.)	4	4	4	4	817424*
	3/8" HEX NUT	1	0	0	0	804053*
	3/8" x 3 1/2" HEX HEAD	1	0	0	0	801013*
	6" EXTENSION	1	0	0	0	151080*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

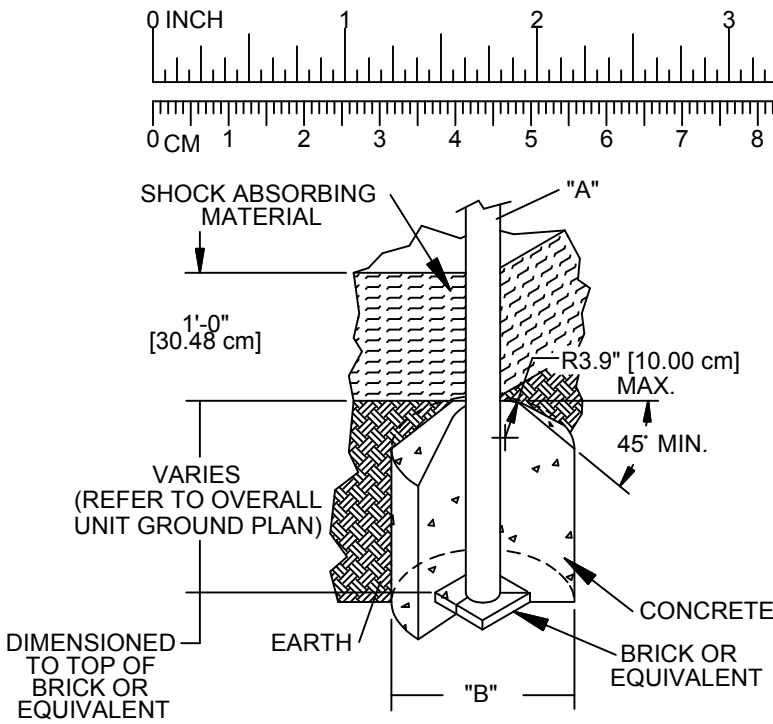
DETAILS -for- 90503 - 90506

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

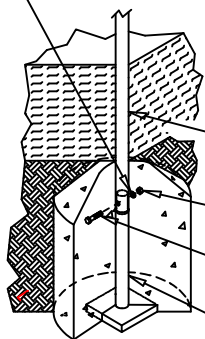
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

LEG (PIPE DIA.)	BOLT REQUIRED
1 5/16" [3.3 cm]	3/8" x 2" HEX HEAD (801007)
1 5/8" [4.1 cm]	3/8" x 2 1/2" HEX HEAD (801009)
1 7/8" [4.7 cm]	3/8" x 3" HEX HEAD (801011)
2 3/8" [6.0 cm]	3/8" x 3 1/2" HEX HEAD (801013)
2 7/8" [7.3 cm]	3/8" x 4" HEX HEAD (801015)

3/8" LOCKWASHER (817334)



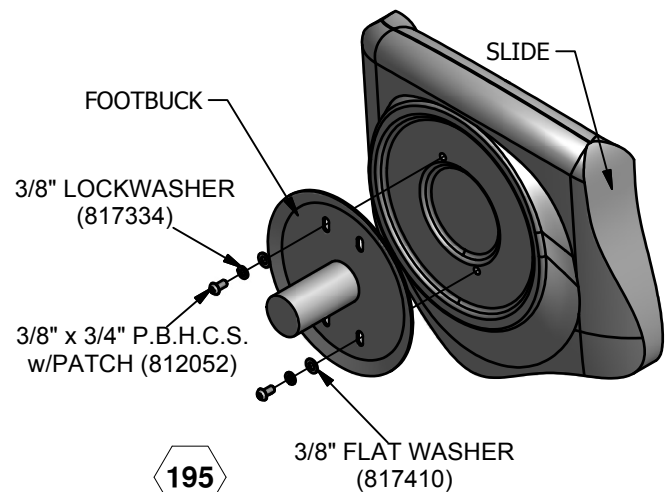
LEG, SEE CHART FOR SIZE

3/8" HEX NUT (804053)

SEE CHART FOR SIZE

EXTENSION

061



195

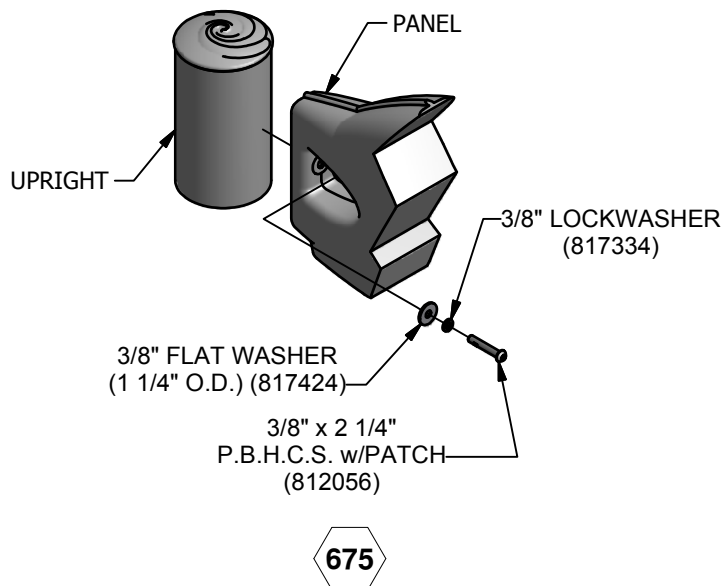
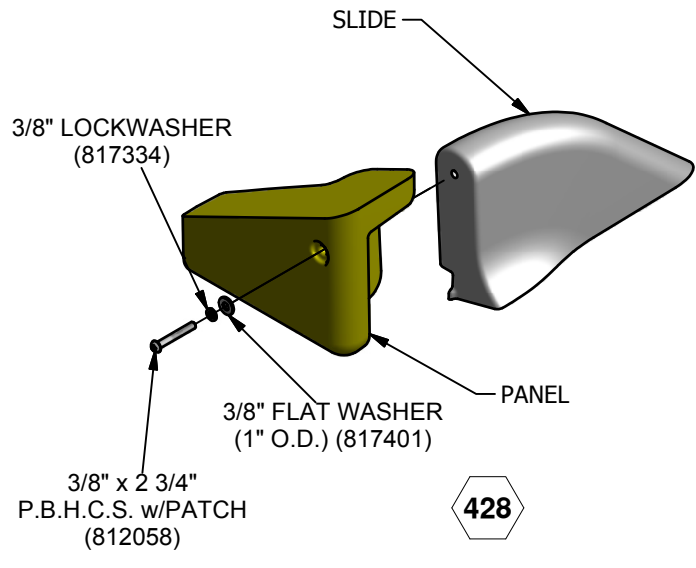
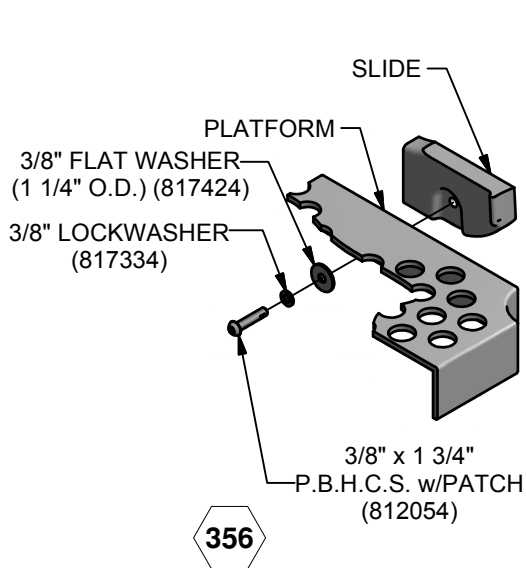
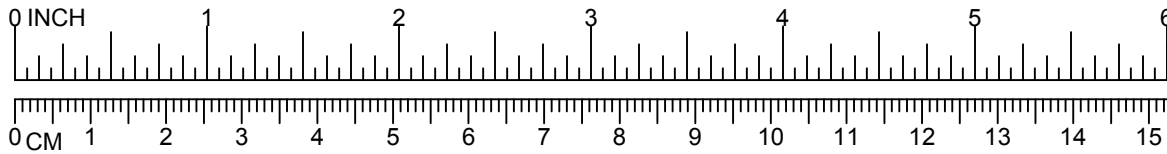
DETAILS -for- 90503 - 90506

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



PowerScape®



GameTime®

A PLAYCORE Company

1-800-235-2440

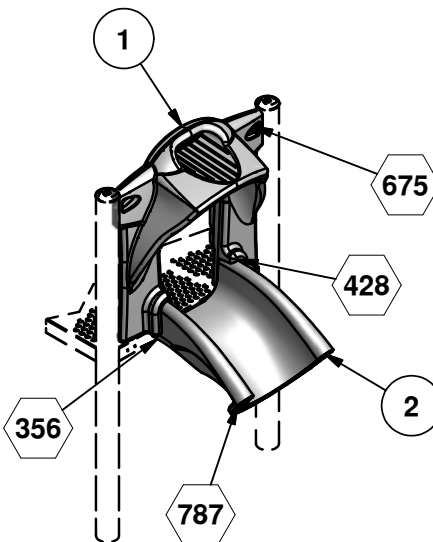
ISSUED/REVISED: 11/07/14

90700 WILDER SLIDE II

-  = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE



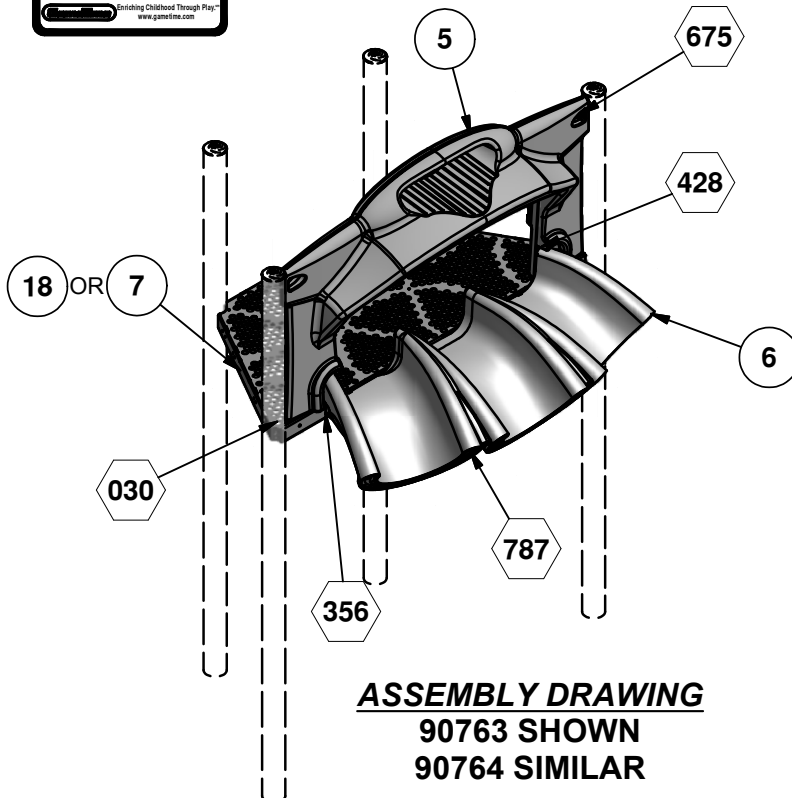
UP TO 5'-0"



**ASSEMBLY DRAWING
90700 SHOWN**

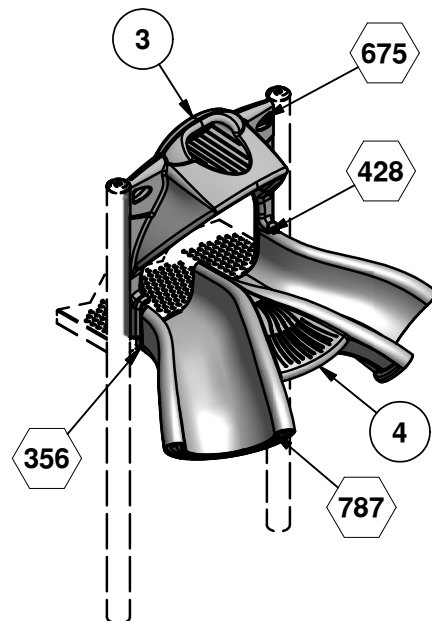


UP TO 8'-0"

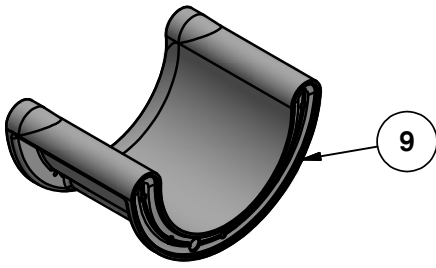


**ASSEMBLY DRAWING
90763 SHOWN
90764 SIMILAR**

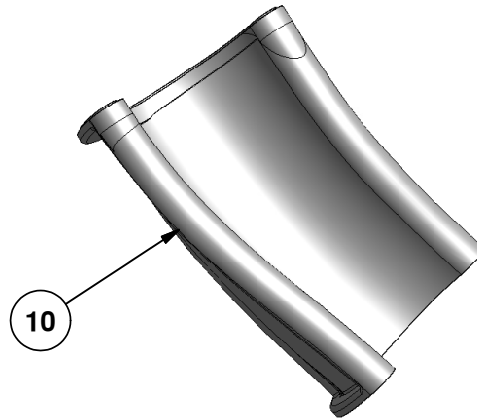
SINGLE ENTRANCE	90700
DOUBLE ENTRANCE	90701
TRIPLE ENTRANCE	90763
STRAIGHT	90703
CURVE LEFT	90704
CURVE RIGHT	90705
EXIT	90706
HELIX SPIRAL	90708
SLIDE SUPPORT	90709
SLIDE SUPPORT	90710
SLIDE SUPPORT	90718
TRIPLE ENTRANCE ADA	90764
DOUBLE STRAIGHT	90729
OUTRIGGER	90776



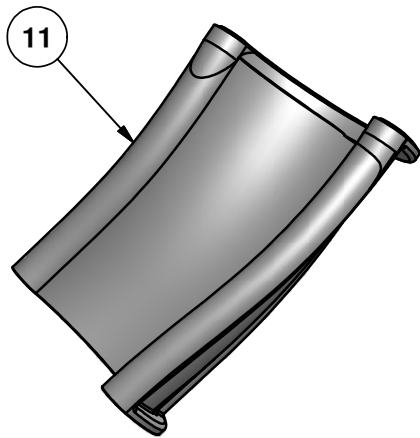
**ASSEMBLY DRAWING
90701 SHOWN**



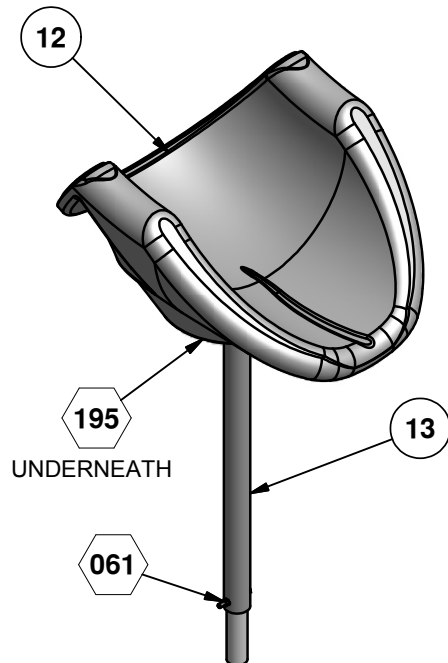
ASSEMBLY DRAWING
90703 SHOWN



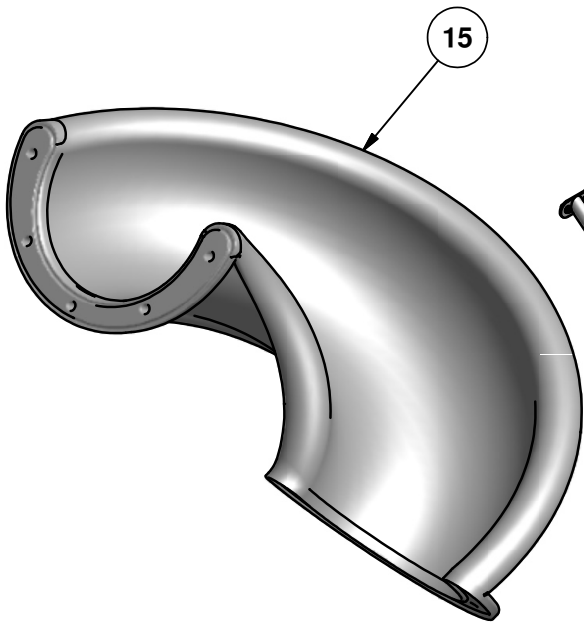
ASSEMBLY DRAWING
90704 SHOWN



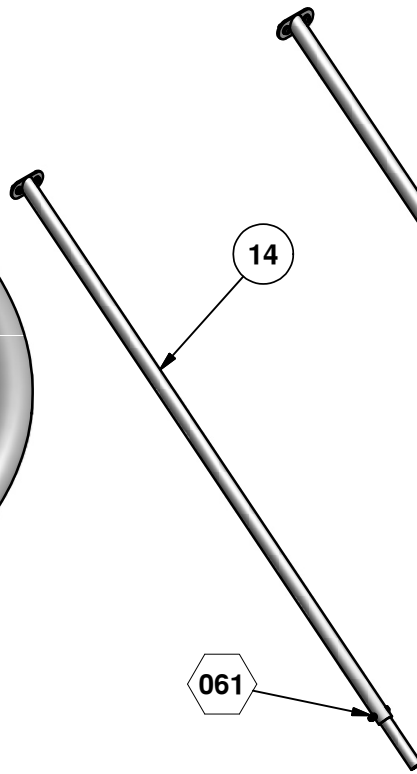
ASSEMBLY DRAWING
90705 SHOWN



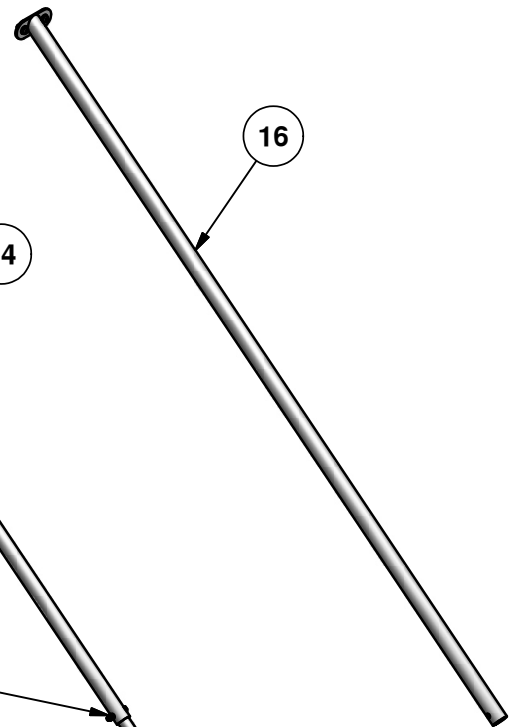
ASSEMBLY DRAWING
90706 SHOWN



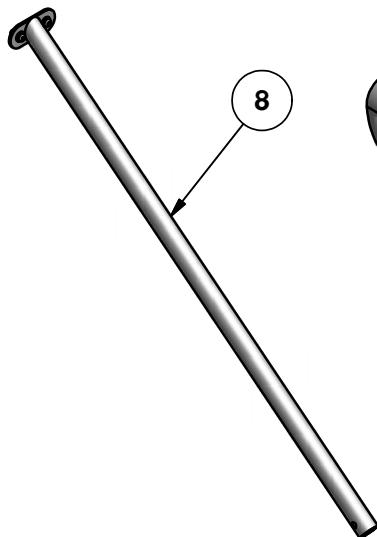
ASSEMBLY DRAWING
90708 SHOWN



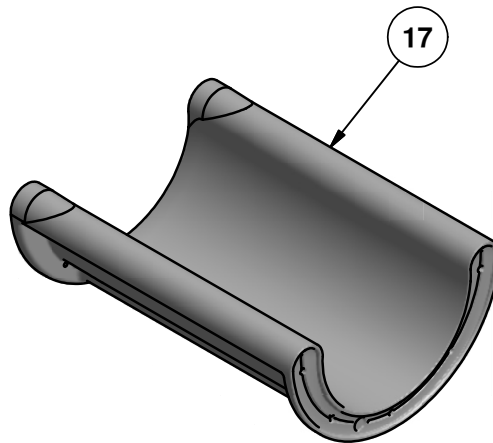
ASSEMBLY DRAWING
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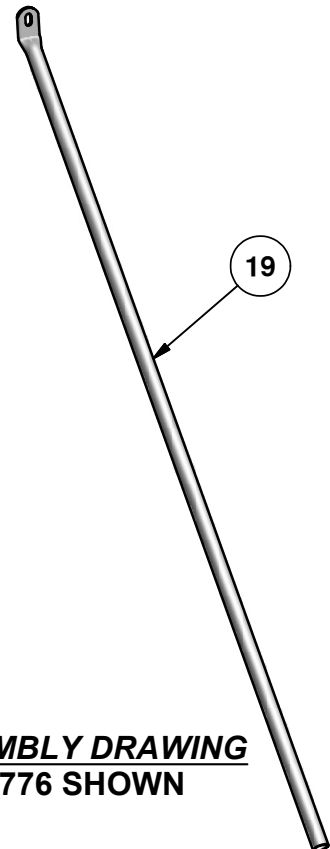
ASSEMBLY DRAWING
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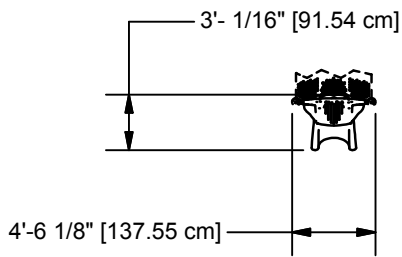
ASSEMBLY DRAWING
90718 SHOWN



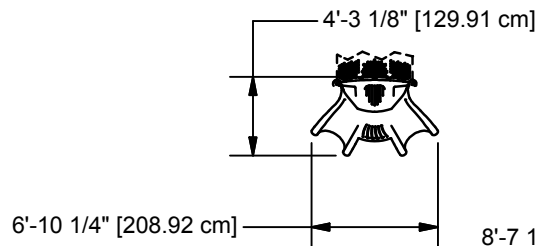
ASSEMBLY DRAWING
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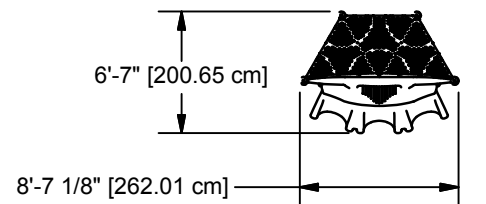
ASSEMBLY DRAWING
90776 SHOWN



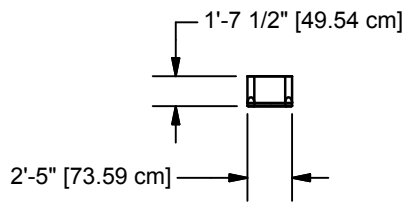
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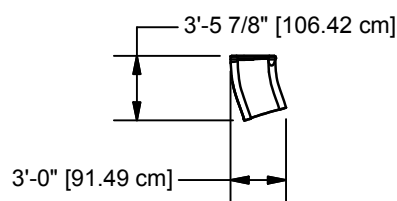
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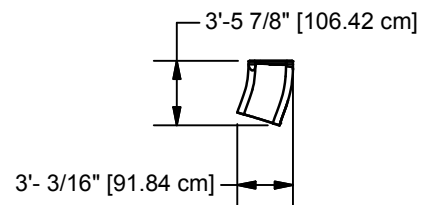
90763 / 90764



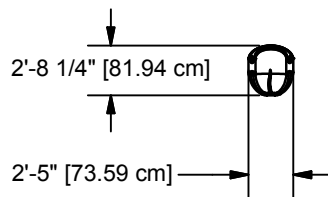
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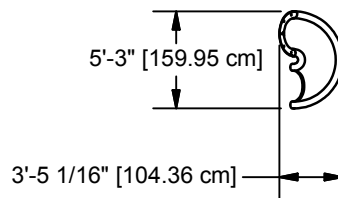
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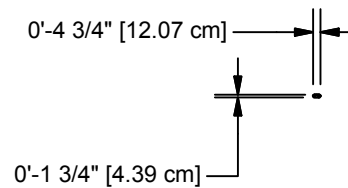
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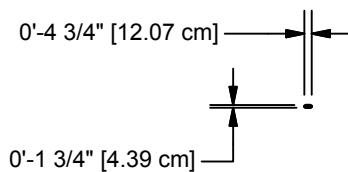
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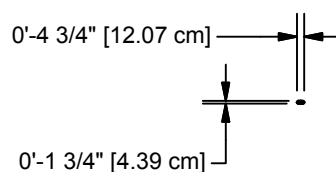
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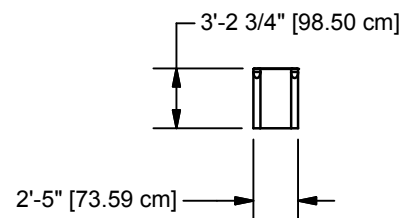
90709



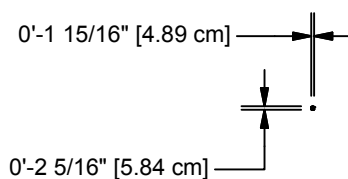
90710



90718



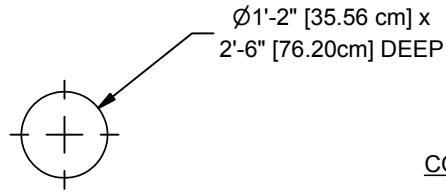
90729



90776

TOP VIEWS

NOTE: HOLE DEPTHS
INDICATED ON ALL GROUND
PLANS ARE MEASURED FROM
THE FINISHED SURFACE. SEE
DETAIL 032. ALL FOOTING
DIMENSIONS ARE BASED ON
A LEVEL FINISHED SURFACE

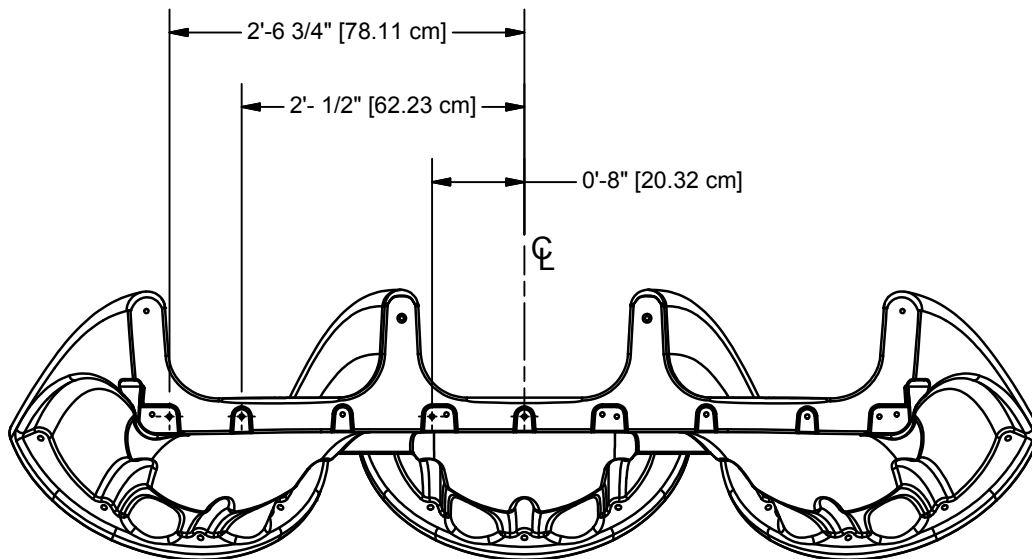


CONCRETE REQUIRED:
.06 CUBIC YARDS
[.05 CUBIC METERS]

PER GROUND HOLE
(DETERMINED BY CONFIGURATION)

NOTE:
NUMBER OF GROUND HOLES REQUIRED
WILL BE DETERMINED BY SLIDE CONFIGURATION.

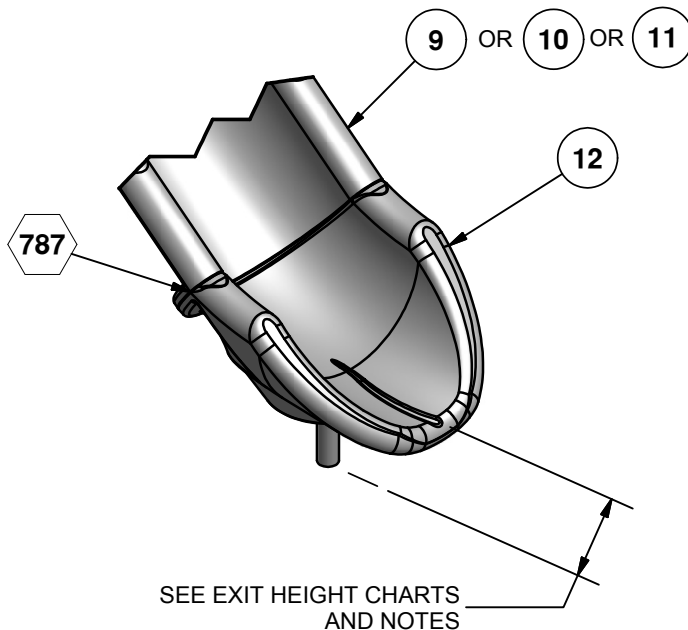
GROUND PLAN



NOTE: USE THESE INSERTS TO
ATTACH TRIPLE ENTRANCE TO
PLATFORM. CLEAN OUT HOLE
LOCATIONS ON PLATFORM TO
MATCH DIMENSIONS

TRIPLE ENTRANCE HOLE PATTERN DETAIL

EXIT HEIGHT CHART	
DECK HEIGHT	EXIT HEIGHT
3'-0"	7 1/4" [18.42cm]
3'-6"	13 1/4" [33.66cm]
4'-0"	7 1/4" [18.42 cm]
4'-6"	13 1/4" [33.66 cm]
5'-0"	7 1/4" [18.42cm]
5'-6"	13 1/4" [33.66 cm]
6'-0"	7 1/4" [18.42 cm]
6'-6"	13 1/4" [33.66 cm]
7'-0"	7 1/4" [18.42 cm]
7'-6"	13 1/4" [33.66 cm]
8'-0"	7 1/4" [18.42cm]



NOTE: CHECK SLIDE EXIT FOR PROPER WATER DRAINAGE BEFORE CONCRETE IS APPLIED

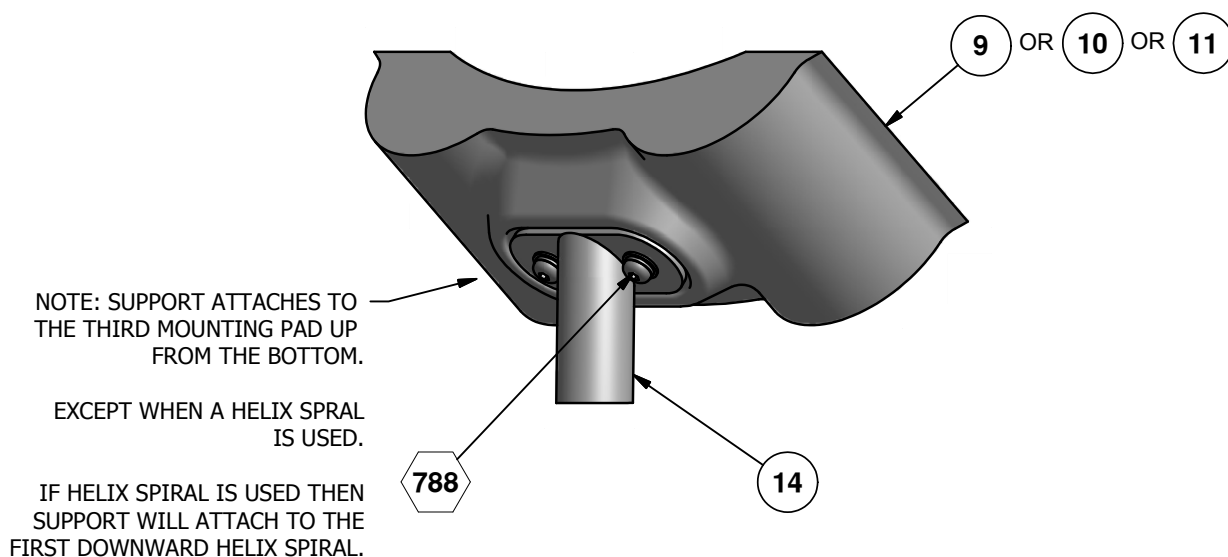
NOTE:
IF YOUR BUILDING A SINGLE ENTRANCE STRAIGHT SLIDE YOUR EXIT HEIGHT WILL BE AS FOLLOWS:

DECK HEIGHT	EXIT HEIGHT
7'-0"	8 3/4" [22.23cm]
7'-6"	14 3/4" [37.47cm]
8'-0"	11" [27.94cm]

NOTE:
IF YOUR BUILDING A TRIPLE ENTRANCE STRAIGHT SLIDE IN THE CENTER YOUR EXIT HEIGHT WILL BE AS FOLLOWS:

DECK HEIGHT	EXIT HEIGHT
7'-0"	8 1/4" [20.96cm]
7'-6"	14 1/4" [36.20 cm]
8'-0"	10" [25.40 cm]

EXIT SECTION ASSEMBLY DRAWING



SLIDE SUPPORT ASSEMBLY DRAWING

INSTALLATION INSTRUCTIONS

SINGLE BEDWAY SLIDES

1. Before assembling this equipment, read the enclosed *INSTALLATION INSTRUCTIONS* in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in *ASSEMBLY DRAWINGS*. Refer to the assembly details for the specific hardware required in each connection.
3. Attach Single Zip Slide Hood using Detail 675.
4. Attach Footbuck to Exit Section using Detail 195.
5. Assemble all slide sections on the ground. Bolt each section together using the hardware shown in Detail 787. Hand tighten the five bolts that join each section.
Note: Refer to your units Top View for proper placement and orientation of each slide section.
6. Once all sections are bolted together, hand tight, install the slide to the Single Zip Slide Hood and platform using Detail 356 and Detail 428.
7. Starting at the top section, tighten the five bolts with a wrench. Tighten the top two bolts first, the bottom single bolt second, then the remaining two bolts as shown, See Figure #1.
8. It is important that each seam between slide sections are as tight as possible. Be sure that the seams are flush or higher on the upper piece. See Figure #2.
9. After tightening all the pieces, if seam adjustment is necessary, slightly loosen the bolts in the area to be adjusted and repeat step 7 and 8 until seams are properly fitted.
10. After the slide is adjusted and the bolts are tight, attach the slide support using Detail 788 (if required).
NOTE: Support attaches to the third mounting pad up from the bottom.
11. Use Detail 789 to plug inserts in Straight and Curved Sections as required.
12. Attach Outrigger to Spirals if required using Detail 840.

DOUBLE BEDWAY SLIDES

1. Before assembling this equipment, read the enclosed *INSTALLATION INSTRUCTIONS* in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in *ASSEMBLY DRAWINGS*. Refer to the assembly details for the specific hardware required in each connection.
3. Attach Double Zip Slide Hood using Detail 675.
4. Attach Footbucks to Exit Sections using Detail 195.
5. Attach the Double Entrance Section using Detail 356 and Detail 428.
6. Assemble all slide sections on the ground. Bolt each section together using the hardware shown in Detail 787. Hand tighten the five bolts that join each section.
Note: Refer to your units Top View for proper placement and orientation of each slide section.
7. Once all sections are bolted together, hand tight, install the slides to the Double Entrance Section using Detail 787.
8. Starting at the top section, tighten the five bolts with a wrench. Tighten the top two bolts first, the bottom single bolt second, then the remaining two bolts as shown, See Figure #1.
9. It is important that each seam between slide sections are as tight as possible. Be sure that the seams are flush or higher on the upper piece. See Figure #2.
10. After tightening all the pieces, if seam adjustment is necessary, slightly loosen the bolts in the area to be adjusted and repeat step 8 and 9 until seams are properly fitted.
11. After the slide is adjusted and the bolts are tight, attach the slide supports using Detail 788 (if required).
NOTE: Support attaches to the third mounting pad up from the bottom.
12. Use Detail 789 to plug inserts in Straight and Curved Sections as required.
13. Attach Outrigger to Spirals if required using Detail 840.

TRIPLE BEDWAY SLIDES

1. Before assembling this equipment, read the enclosed *INSTALLATION INSTRUCTIONS* in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in *ASSEMBLY DRAWINGS*. Refer to the assembly details for the specific hardware required in each connection.
3. Attach Hex Deck to Uprights using Detail 030.
4. Attach Triple Slide Hood using Detail 675.
5. Attach Footbucks to Exit Sections using Detail 195.
6. Attach the Triple Entrance Section using Detail 356 and Detail 428.
7. Assemble all slide sections on the ground. Bolt each section together using the hardware shown in Detail 787. Hand tighten the five bolts that join each section.
Note: Refer to your units Top View for proper placement and orientation of each slide section.
8. Once all sections are bolted together, hand tight, install the slides to the Triple Entrance Section using Detail 787.
9. Starting at the top section, tighten the five bolts with a wrench. Tighten the top two bolts first, the bottom single bolt second, then the remaining two bolts as shown, See Figure #1.
10. It is important that each seam between slide sections are as tight as possible. Be sure that the seams are flush or higher on the upper piece. See Figure #2.
11. After tightening all the pieces, if seam adjustment is necessary, slightly loosen the bolts in the area to be adjusted and repeat step 9 and 10 until seams are properly fitted.
12. After the slide is adjusted and the bolts are tight, attach the slide supports using Detail 788 (if required).
NOTE: Support attaches to the third mounting pad up from the bottom.
13. Use Detail 789 to plug inserts in Straight and Curved Sections as required.
14. Attach Outrigger to Spirals if required using Detail 840.

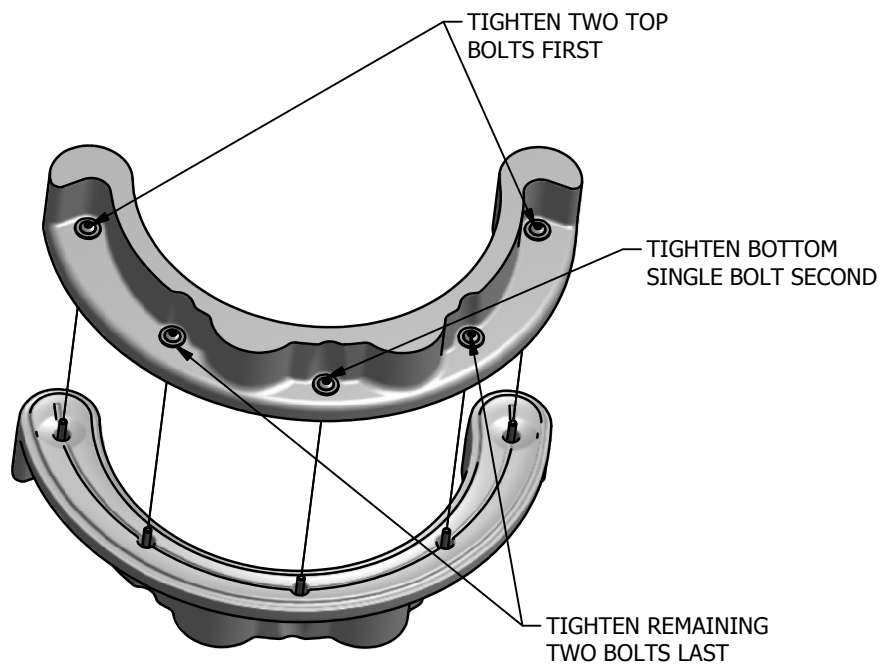


FIGURE #1

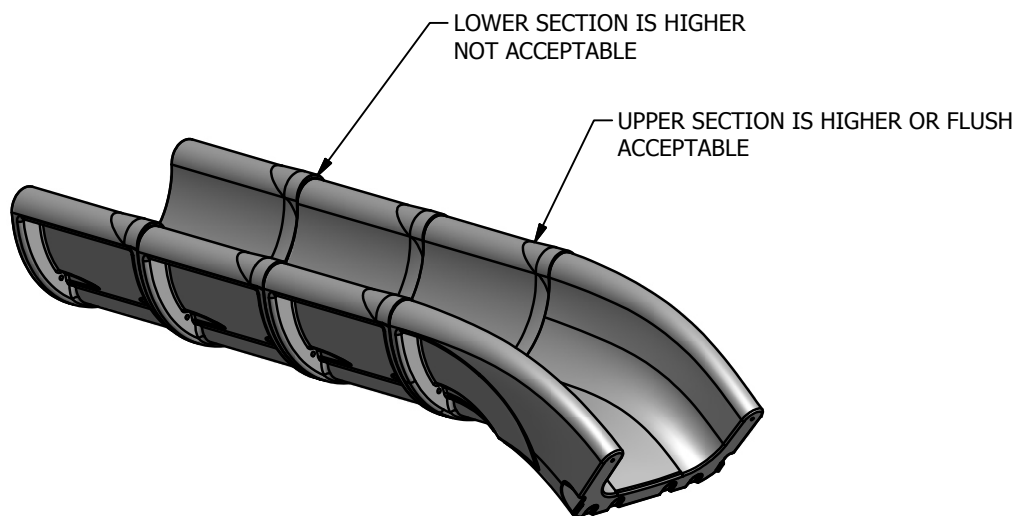


FIGURE #2

Parts List									
REF.	DESCRIPTION	90700	90701	90763	90703	90704	90705	90706	PART NUMBER
1	SINGLE ZIP SLIDE HOOD	1	0	0	0	0	0	0	203858
2	SINGLE ENTRANCE SECTION	1	0	0	0	0	0	0	205960
3	DOUBLE ZIP SLIDE HOOD	0	1	0	0	0	0	0	203860
4	DOUBLE ENTRANCE SECTION	0	1	0	0	0	0	0	206167
5	TRIPLE SLIDE HOOD	0	0	1	0	0	0	0	207656
6	TRIPLE ENTRANCE SECTION	0	0	1	0	0	0	0	206168
7	COATED TWO PIECE HEX DECK	0	0	1	0	0	0	0	204318
8	SUPPORT ASS'Y	0	0	0	0	0	0	0	208976
9	STRAIGHT SECTION	0	0	0	1	0	0	0	205962
10	CURVED LEFT SECTION	0	0	0	0	1	0	0	205963
11	CURVED RIGHT SECTION	0	0	0	0	0	1	0	205964
12	EXIT SECTION	0	0	0	0	0	0	1	206179
13	FOOTBUCK WELD ASS'Y	0	0	0	0	0	0	1	204879
14	SUPPORT ASS'Y	0	0	0	0	0	0	0	312634
15	HELIX SPIRAL	0	0	0	0	0	0	0	206170
16	SUPPORT ASS'Y	0	0	0	0	0	0	0	312637
17	DOUBLE STRAIGHT SECTION	0	0	0	0	0	0	0	207601
18	COATED TWO PIECE HEX DECK ADA	0	0	0	0	0	0	0	204533
19	OUTRIGGER	0	0	0	0	0	0	0	209049
	HARDWARE COMPLETE	1	0	0	0	0	0	0	207029
	HARDWARE COMPLETE	0	1	0	0	0	0	0	207030
	HARDWARE COMPLETE	0	0	1	0	0	0	0	207031
	HARDWARE COMPLETE	0	0	0	1	0	0	0	207032
	HARDWARE COMPLETE	0	0	0	0	1	1	0	207033
	HARDWARE COMPLETE	0	0	0	0	0	0	1	207035
	HARDWARE COMPLETE	0	0	0	0	0	0	0	207036
	HARDWARE COMPLETE	0	0	0	0	0	0	0	208396
	3/8" x 3/4" P.B.H.C.S. w/PATCH	0	0	0	0	0	0	2	812052*
	3/8" x 1" P.B.H.C.S. w/PATCH	0	0	0	2	4	4	0	812050*
	3/8" x 1 1/2" P.B.H.C.S.	0	0	12	0	0	0	0	810053*
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	4	6	0	0	0	0	812054*
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	2	2	0	0	0	0	812056*
	3/8" x 2 3/4" P.B.H.C.S. w/PATCH	2	2	2	0	0	0	0	812058*
	3/8" x 3 1/2" HEX HEAD BOLT	0	0	0	0	0	0	1	801013*
	3/8" x 2 1/2" HEX HEAD BOLT	0	0	0	0	0	0	0	801009*
	3/8" LOCKWASHER	6	8	22	0	0	0	3	817334*
	3/8" FLATWASHER	0	0	0	0	0	0	2	817410*
	3/8" FLAT WASHER (1" O.D.)	2	2	2	0	0	0	0	817401*
	3/8" FLAT WASHER (1 1/4" O.D.)	4	6	20	0	0	0	0	817424*
	3/8 BARREL NUT	0	0	0	10	10	10	10	804804*
	3/8" HEX NUT	0	0	0	0	0	0	1	804053*
	1/2" LOCKWASHER	0	0	0	10	10	10	10	817342*
	1/2" FLATWASHER	0	0	0	10	10	10	10	817412*
	3/8" x 2 1/2" THREADED STUD	0	0	0	5	5	5	5	803583*
	6" EXTENSION	0	0	0	0	0	0	1	151080*
	EXTENSION LEG	0	0	0	0	0	0	0	152110*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

Parts List									
REF.	DESCRIPTION	90708	90709	90710	90718	90764	90729	90776	PART NUMBER
1	SINGLE ZIP SLIDE HOOD	0	0	0	0	0	0	0	203858
2	SINGLE ENTRANCE SECTION	0	0	0	0	0	0	0	205960
3	DOUBLE ZIP SLIDE HOOD	0	0	0	0	0	0	0	203860
4	DOUBLE ENTRANCE SECTION	0	0	0	0	0	0	0	206167
5	TRIPLE SLIDE HOOD	0	0	0	0	1	0	0	207656
6	TRIPLE ENTRANCE SECTION	0	0	0	0	1	0	0	206168
7	COATED TWO PIECE HEX DECK	0	0	0	0	0	0	0	204318
8	SUPPORT ASS'Y	0	0	0	1	0	0	0	208976
9	STRAIGHT SECTION	0	0	0	0	0	0	0	205962
10	CURVED LEFT SECTION	0	0	0	0	0	0	0	205963
11	CURVED RIGHT SECTION	0	0	0	0	0	0	0	205964
12	EXIT SECTION	0	0	0	0	0	0	0	206179
13	FOOTBUCK WELD ASS'Y	0	0	0	0	0	0	0	204879
14	SUPPORT ASS'Y	0	1	0	0	0	0	0	312634
15	HELIX SPIRAL	1	0	0	0	0	0	0	206170
16	SUPPORT ASS'Y	0	0	1	0	0	0	0	312637
17	DOUBLE STRAIGHT SECTION	0	0	0	0	0	1	0	207601
18	COATED TWO PIECE HEX DECK ADA	0	0	0	0	1	0	0	204533
19	OUTRIGGER	0	0	0	0	0	0	1	209049
	HARDWARE COMPLETE	0	0	0	0	0	0	0	207029
	HARDWARE COMPLETE	0	0	0	0	0	0	0	207030
	HARDWARE COMPLETE	0	0	0	0	1	0	0	207031
	HARDWARE COMPLETE	1	0	0	0	0	0	0	207032
	HARDWARE COMPLETE	0	0	0	0	0	1	0	207033
	HARDWARE COMPLETE	0	0	0	0	0	0	0	207035
	HARDWARE COMPLETE	0	1	0	0	0	0	0	207036
	HARDWARE COMPLETE	0	0	1	1	0	0	0	208396
	3/8" x 3/4" P.B.H.C.S. w/PATCH	0	0	0	0	0	0	0	812052*
	3/8" x 1" P.B.H.C.S. w/PATCH	2	2	2	2	0	4	0	812050*
	3/8" x 1 1/2" P.B.H.C.S.	0	0	0	0	12	0	0	810053*
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	0	0	0	0	6	0	0	812054*
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	0	0	0	0	2	0	0	812056*
	3/8" x 2 3/4" P.B.H.C.S. w/PATCH	0	0	0	0	2	0	0	812058*
	3/8" x 3 1/2" HEX HEAD BOLT	0	0	0	0	0	0	0	801013*
	3/8" x 2 1/2" HEX HEAD BOLT	0	1	0	0	0	0	0	801009*
	3/8" LOCKWASHER	0	3	2	2	22	0	0	817334*
	3/8" FLATWASHER	0	2	2	2	0	0	0	817410*
	3/8" FLAT WASHER (1" O.D.)	0	0	0	0	2	0	0	817401*
	3/8" FLAT WASHER (1 1/4" O.D.)	0	0	0	0	20	0	0	817424*
	3/8 BARREL NUT	10	0	0	0	0	10	0	804804*
	3/8" HEX NUT	0	1	0	0	0	0	0	804053*
	1/2" LOCKWASHER	10	0	0	0	0	10	0	817342*
	1/2" FLATWASHER	10	0	0	0	0	10	0	817412*
	3/8" x 2 1/2" THREADED STUD	5	0	0	0	0	5	0	803583*
	6" EXTENSION	0	0	0	0	0	0	0	151080*
	EXTENSION LEG	0	1	0	0	0	0	0	152110*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

**Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.**

**Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. PAGE 10
Note: Loctite (supplied by others) should be used on any non-patch hardware.**

DETAILS -for-

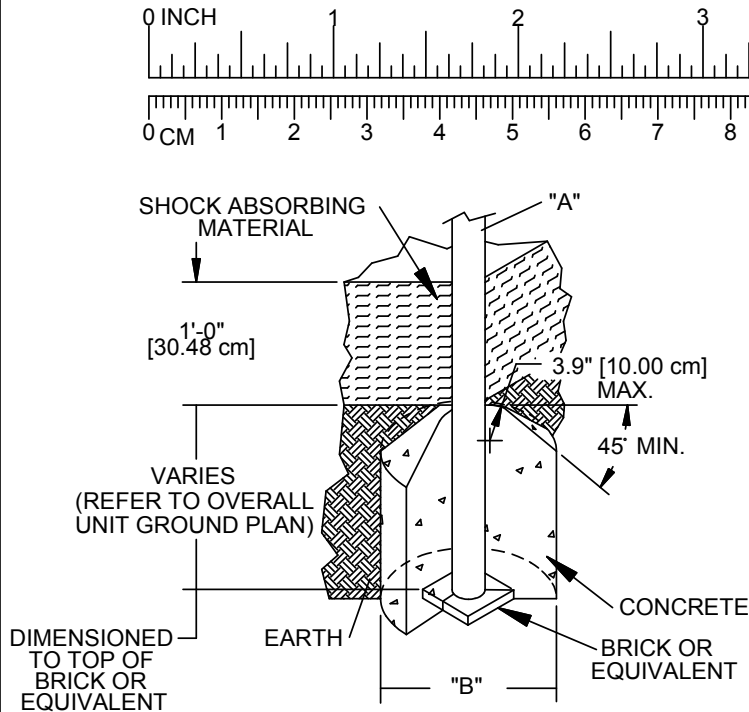
90700, 90701, 90763, 90703, 90704, 90705, 90706, 90708, 90709, 90710, 90718, 90764 & 90729

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.

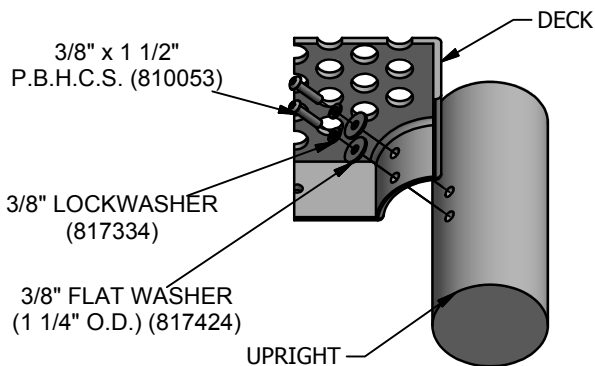


DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

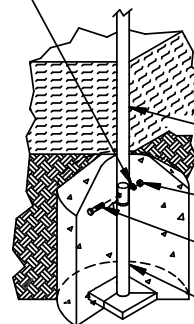
SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



*NOTE:
BOLTS SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.

*NOTE:
AFTER ASSEMBLY IS COMPLETED, PEEN FLATWASHERS TO MATCH RADIUS OF UPRIGHT.

3/8" LOCKWASHER
(817334)



LEG (PIPE DIA.)	BOLT REQUIRED
1 5/16" [3.3 cm]	3/8" x 2" HEX HEAD (801007)
1 5/8" [4.1 cm]	3/8" x 2 1/2" HEX HEAD (801009)
1 7/8" [4.7 cm]	3/8" x 3" HEX HEAD (801011)
2 3/8" [6.0 cm]	3/8" x 3 1/2" HEX HEAD (801013)
2 7/8" [7.3 cm]	3/8" x 4" HEX HEAD (801015)

LEG, SEE CHART FOR SIZE

3/8" HEX NUT (804053)

SEE CHART FOR SIZE

EXTENSION

DETAILS -for-

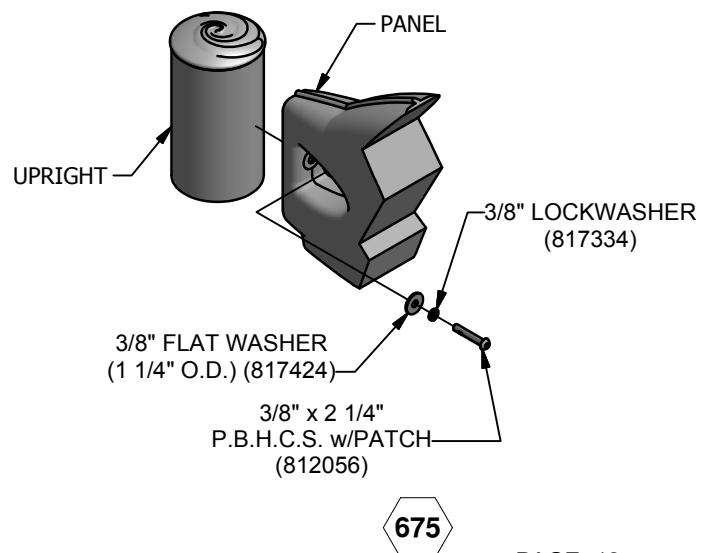
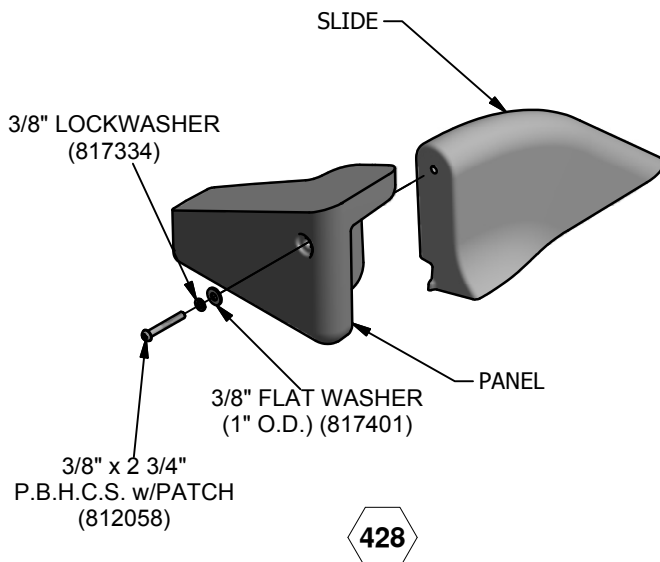
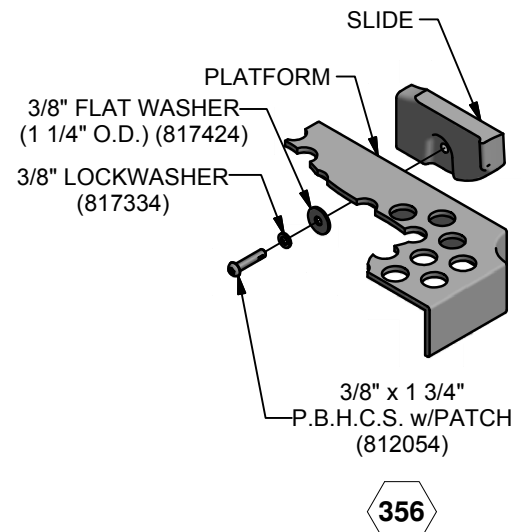
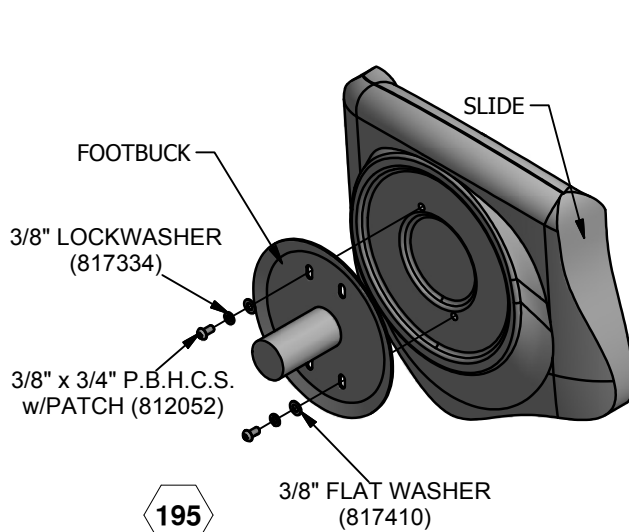
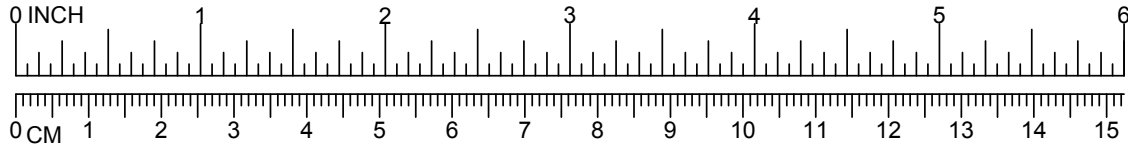
90700, 90701, 90763, 90703, 90704, 90705, 90706, 90708, 90709, 90710, 90718, 90764 & 90729

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DETAILS -for-

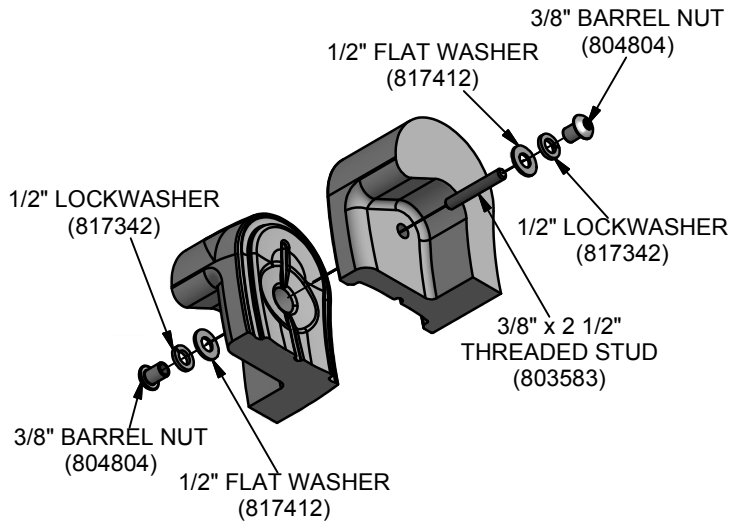
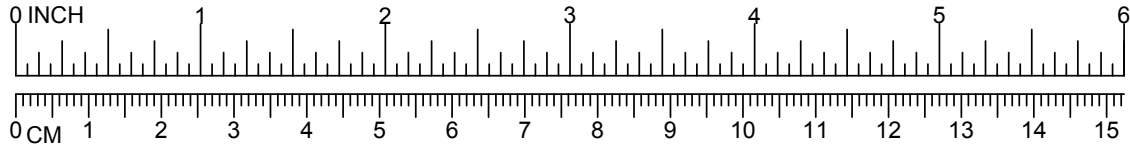
90700, 90701, 90763, 90703, 90704, 90705, 90706, 90708, 90709, 90710, 90718, 90764 & 90729

IMPORTANT

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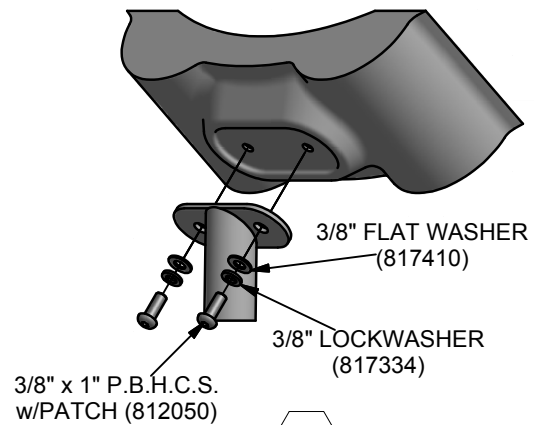
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.

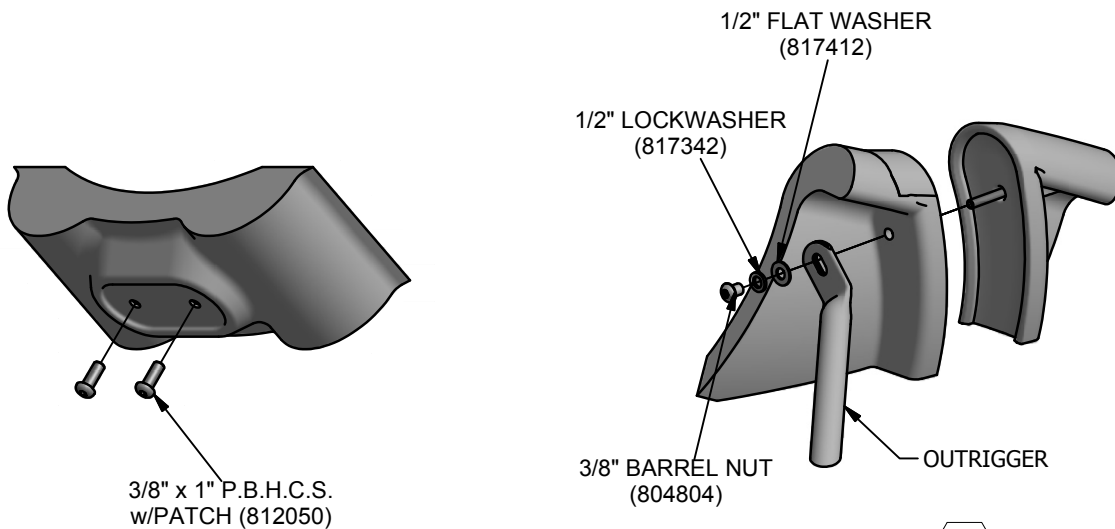


NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE

787



788



840

789

PowerScape®

GameTime®

A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 10/18/13

91139 ENTRYWAY

⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE



91146
2'-6"
OR
BELOW

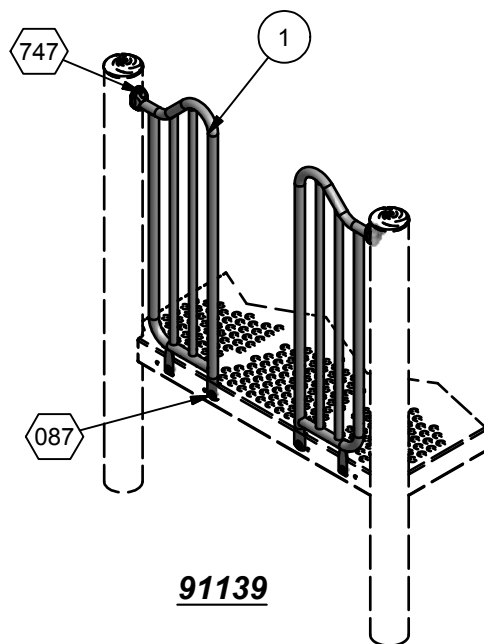


91139

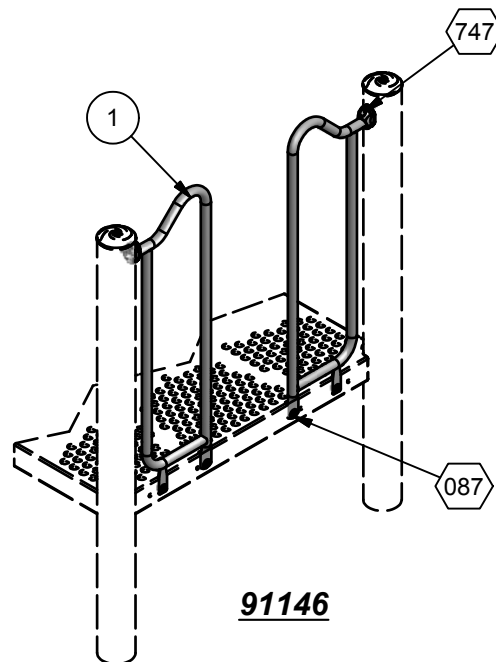


91146
4'-0"
OR
BELOW

**BARRIER
GUARDRAIL** 91139
91146



91139



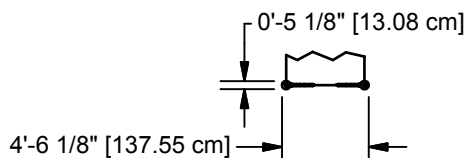
91146

ASSEMBLY VIEWS

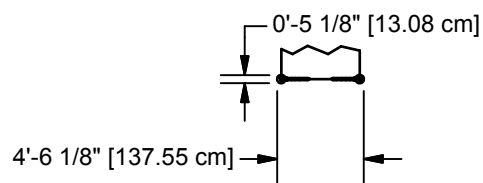
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



91139



91146

TOP VIEWS

Parts List				
ITEM	DESCRIPTION	91139	91146	PART NUMBER
1	ENTRY BARRIER	2	0	206516
1	GUARDRAIL ENTRY	0	2	206002
	TRU-LOC	2	2	A03650
	HARDWARE COMPLETE	1	1	206587
	ALUM. PIN	2	2	203568*
	3/8" FLAT WASHER (1 1/4" O.D.)	4	4	817424*
	3/8" LOCKWASHER	6	6	817334*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	4	4	812052*
	3/8" T-NUT	4	4	804556*
	3/8" x 2" P.B.H.C.S. w/PATCH	2	2	812055*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

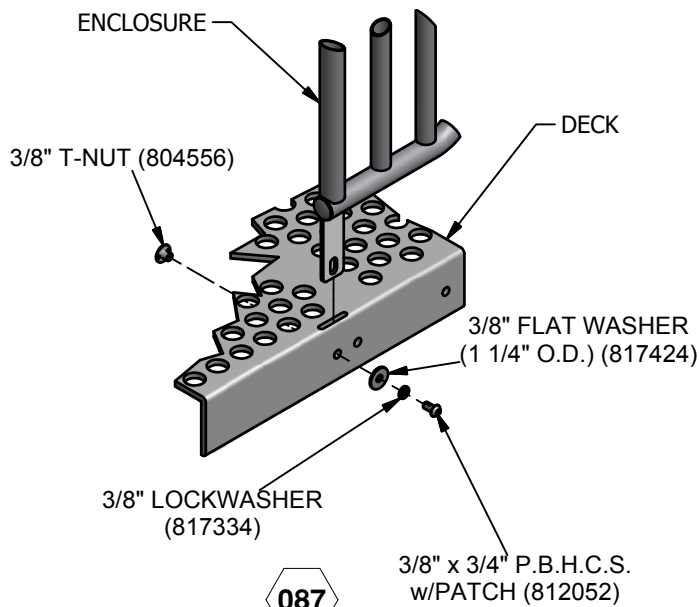
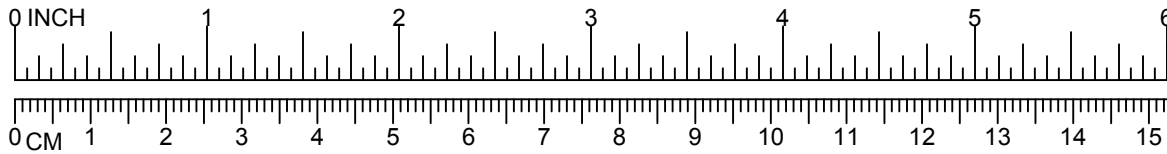
DETAILS -for- 91139 AND 91146

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

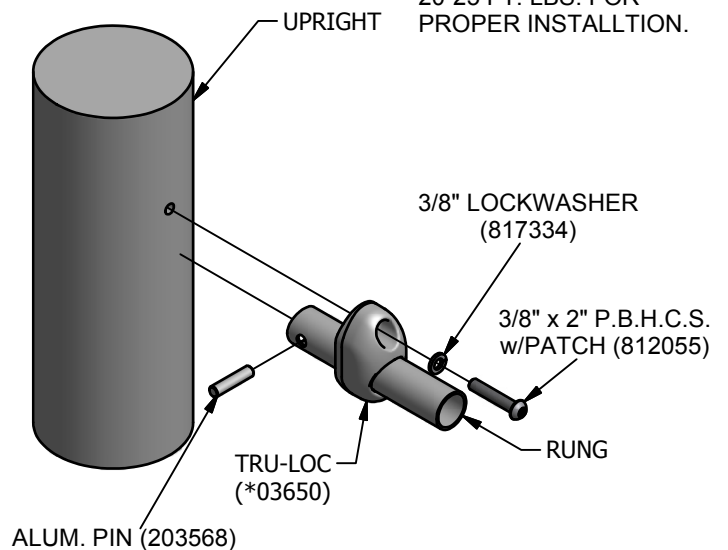
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



(* = A OR Z)

***NOTE:**
BOLT SHOULD BE
TORQUED FROM
20-25 FT. LBS. FOR
PROPER INSTALLTION.



747

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ISSUED/REVISED: 10/18/13

91208 CLIMBER ENTRYWAY

⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE



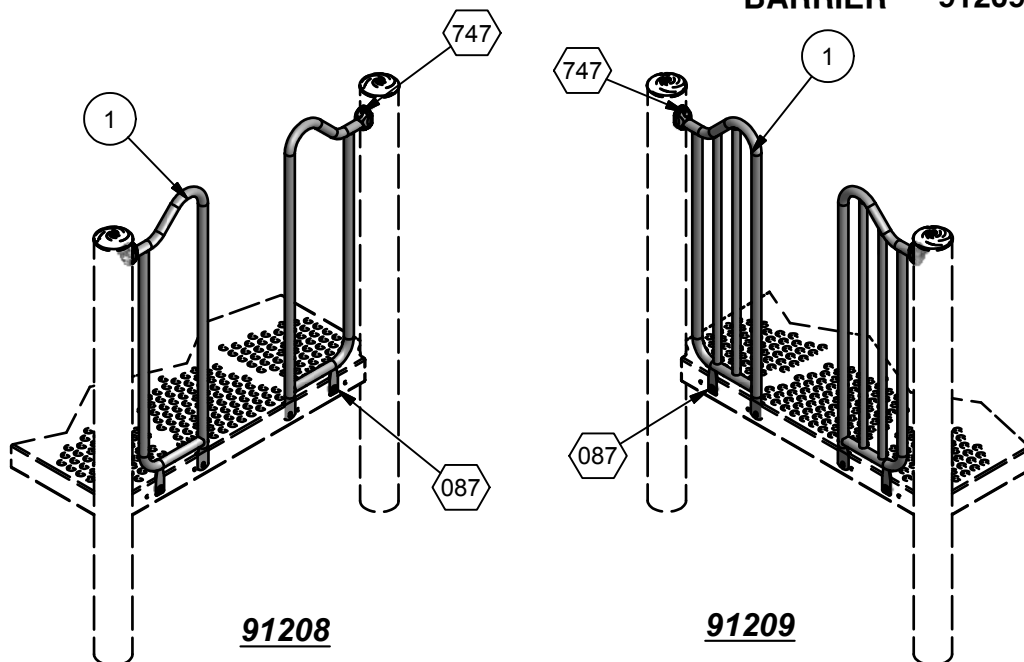
91208
2'-6"
OR
BELOW



91209



91208
4'-0"
OR
BELOW

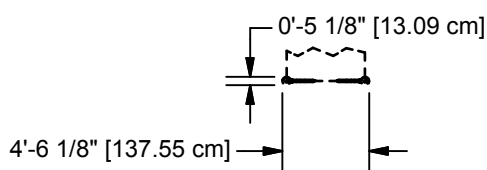


ASSEMBLY VIEWS

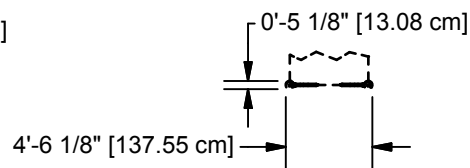
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



91208



91209

TOP VIEWS

Parts List				
ITEM	DESCRIPTION	91208	91209	PART NUMBER
1	GUARDRAIL ENTRY	2	0	206002
1	ENTRY BARRIER	0	2	206516
	TRU-LOC	2	2	A03650
	HARDWARE COMPLETE	1	1	207039
	ALUM. PIN	2	2	203568*
	3/8" FLAT WASHER (1 1/4" O.D.)	2	2	817424*
	3/8" LOCKWASHER	4	4	817334*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	812052*
	3/8" T-NUT	2	2	804556*
	3/8" x 2" P.B.H.C.S. w/PATCH	2	2	812055*

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* Included in Hardware*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

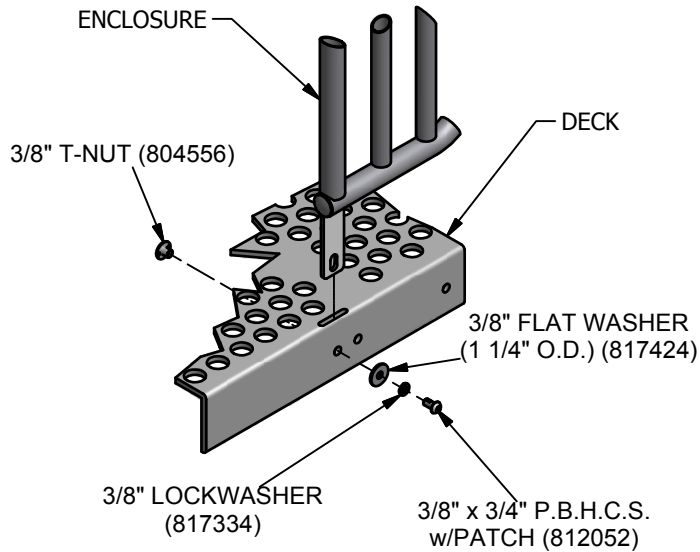
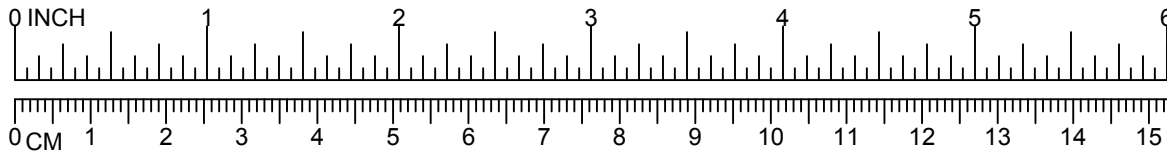
DETAILS -for- 91208 AND 91209

IMPORTANT

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PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

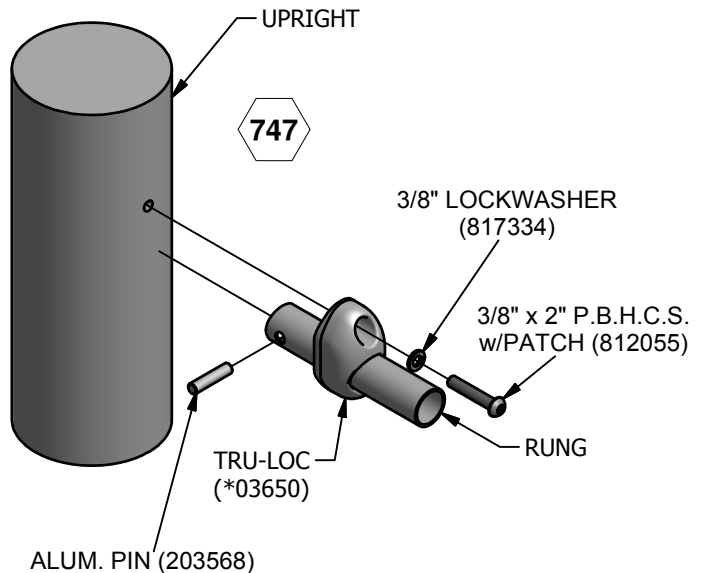
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



***NOTE:**
BOLT SHOULD BE
TORQUED FROM
20-25 FT. LBS. FOR
PROPER INSTALLTION.

087

(* = A OR Z)



SUNRIDGE PARK

PLAYGROUND MANUFACTURER'S INSTALLATION INFORMATION

SUNRIDGE PARK

MADISON, WI

OPTION #1

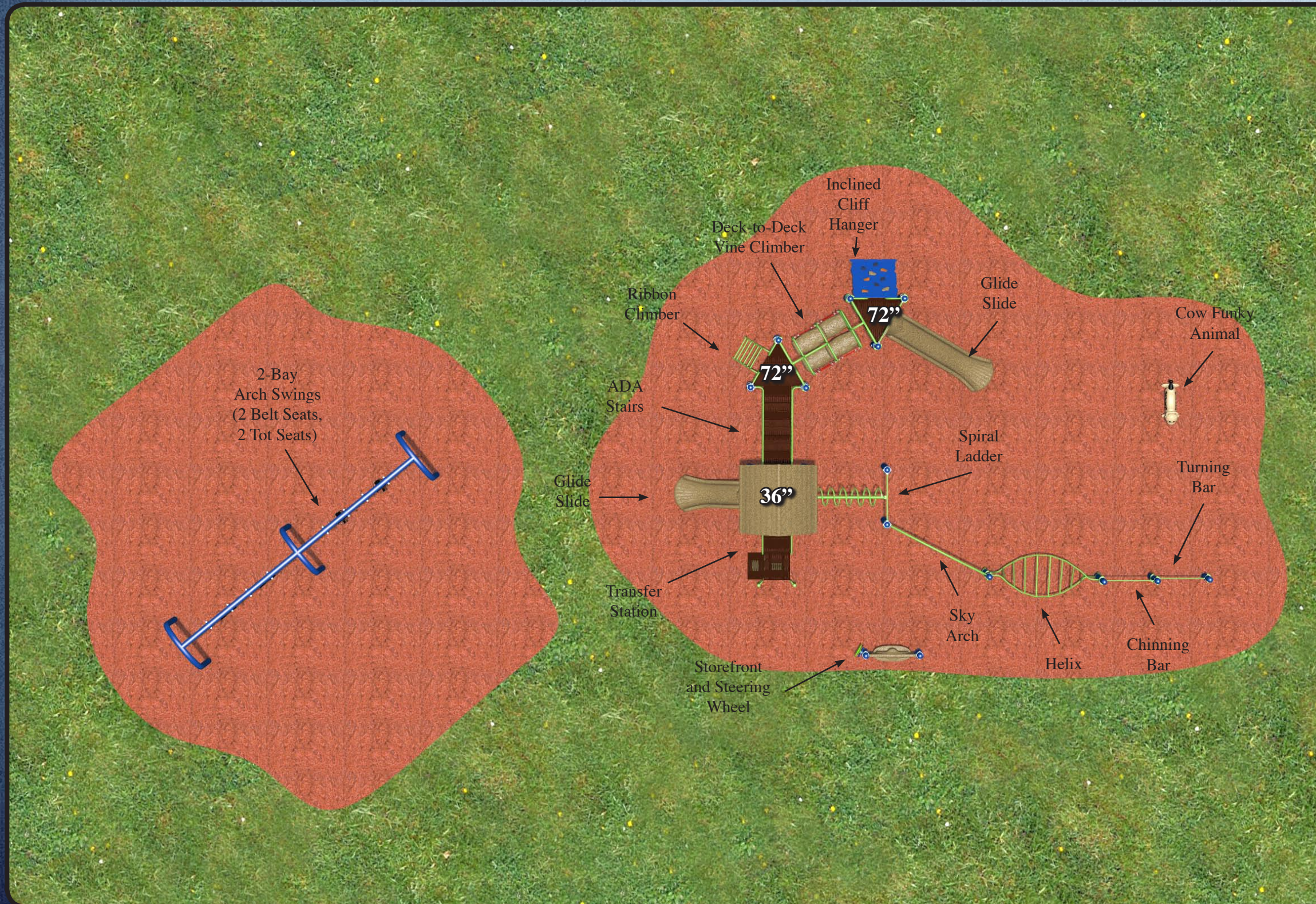
LR
LEE
RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT
P.O. Box 93
Cambridge, WI 53523
Phone: (800) 775-8937
Fax: (608) 423-7655
email: info@leerecreation.com
www.leerecreation.com



SUNRIDGE PARK

MADISON, WI

OPTION #1



809 Bluebird Pass
Cambridge, WI 53523

TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW102714

Use Zone:

of Users: 57

of Active Play Events: 12

Age: 5 to 12

Colors Shown:



Blue



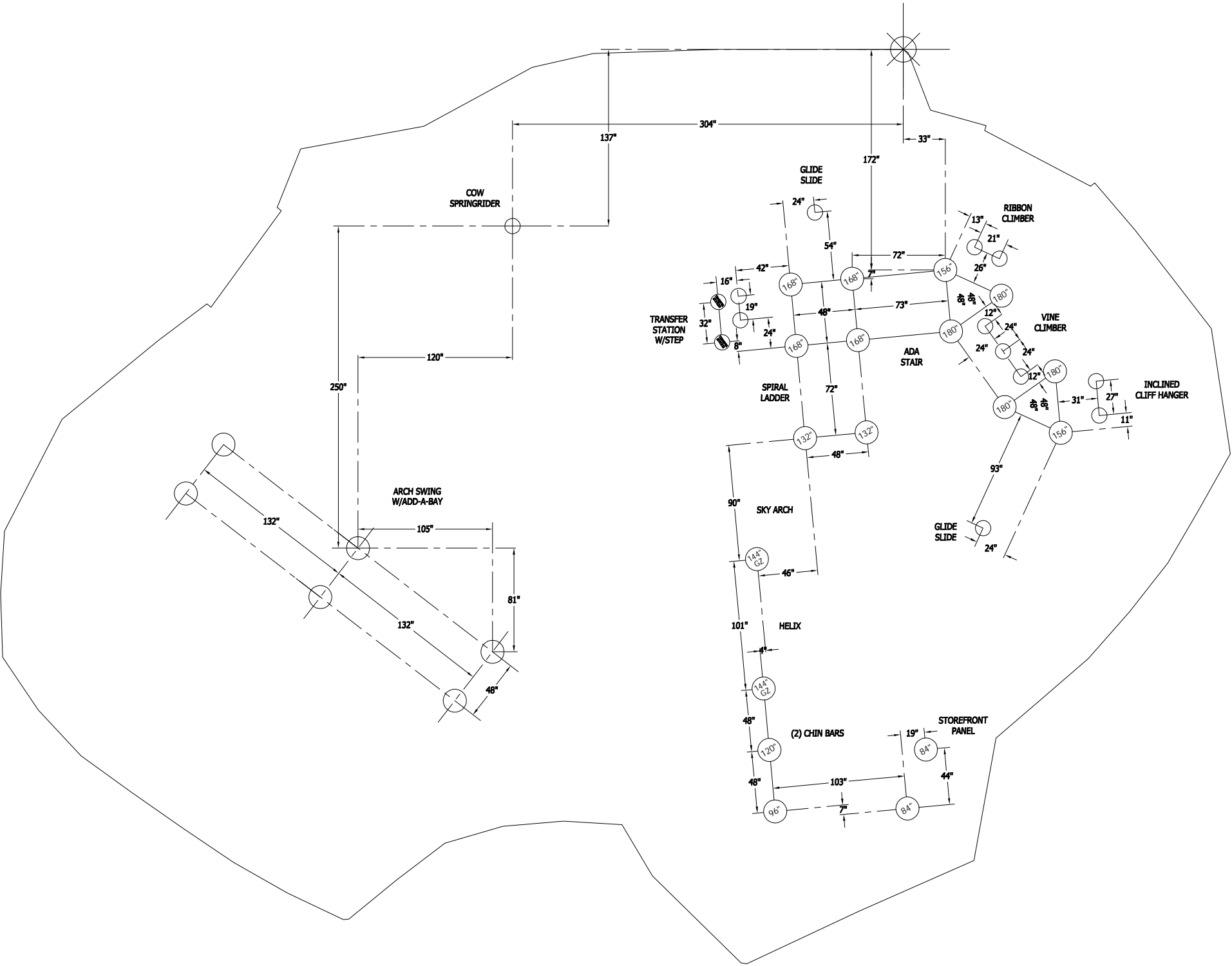
Brownstone



Lime

**PLAYWORLD
SYSTEMS®**
The world needs play.®

*Playground Supervision Required



PROJECT NO: SUNRDG.LEE	REV: B	DATE: 04-FEB-15
SYSTEM: PLAYMAKERS		SCALE: 1/8" = 1'-0"
FOOTING PLAN		DRAWN BY: DANA GRUBBS

LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523

PLAYWORLDTM

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FOOTING LEGEND	
	= COMPONENT FOOTING (DETAIL 3)
	= SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
	= SUPPORT POST FOOTING (DETAIL 1 or 4) (112" (2845mm) INDICATES POST LENGTH)
	= CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2) (ZZCH1850 INDICATES PART NUMBER)
	= GROUND ZERO POST FOOTING (DETAIL 2) (144" (3659mm) INDICATES POST LENGTH)

SUNRIDGE 1-4



Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

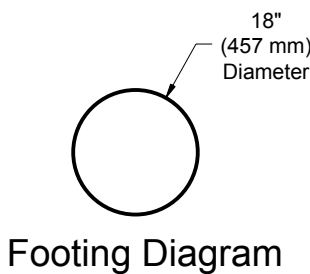
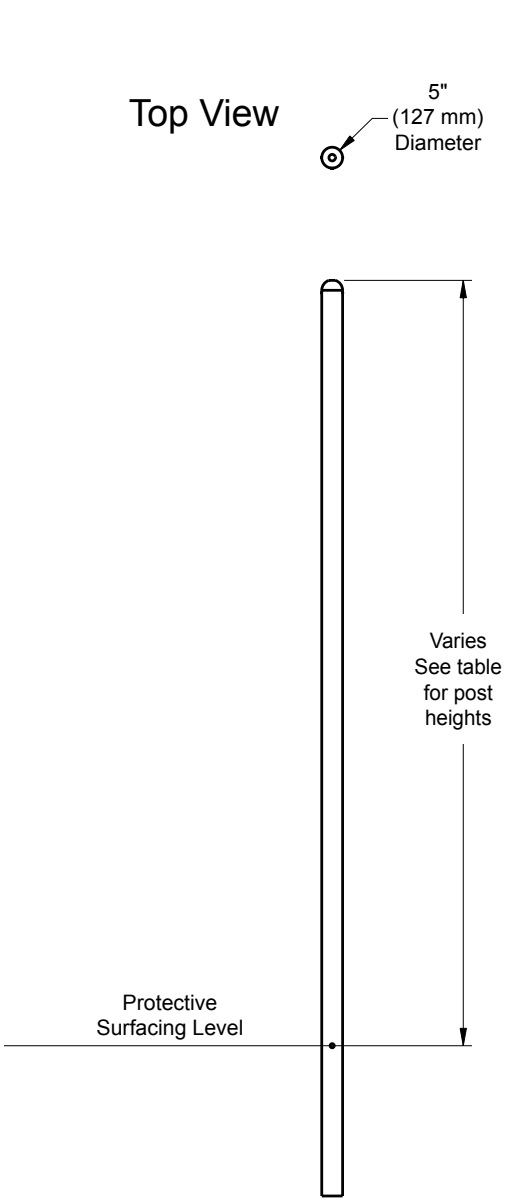


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

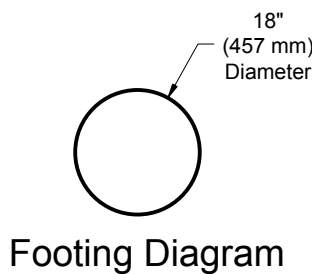
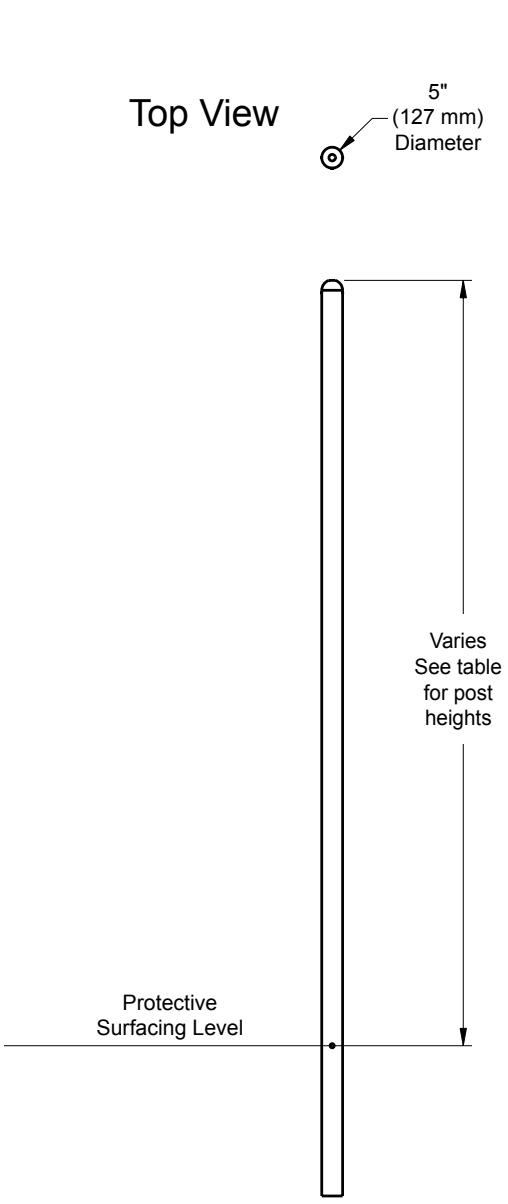


Assembly View *(representative model)*

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

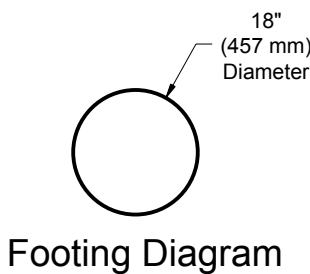
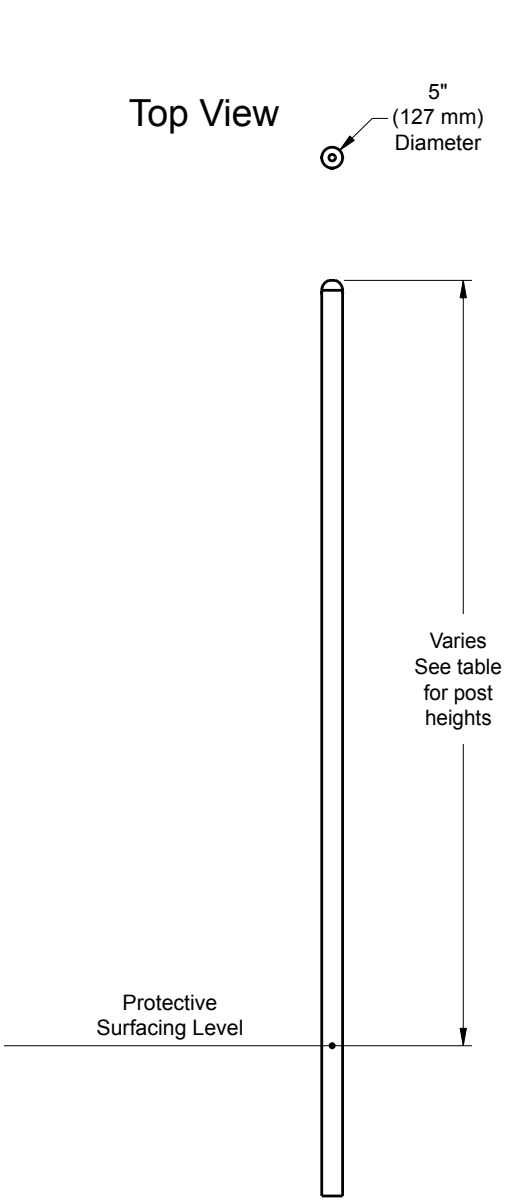


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

Installation Instructions

Playmakers® Models PM0008GZ,
PM0036GZ, PM0056GZ, & PM0066GZ
GroundZero® Steel Support Post w/ Cap
108 in. (2743 mm), 144 in. (3658 mm),
168 in. (4267 mm), & 180 in. (4623 mm)

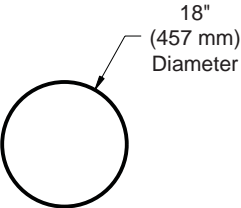
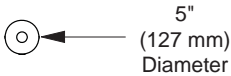
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.18 cubic yard (0,14 cubic meters)

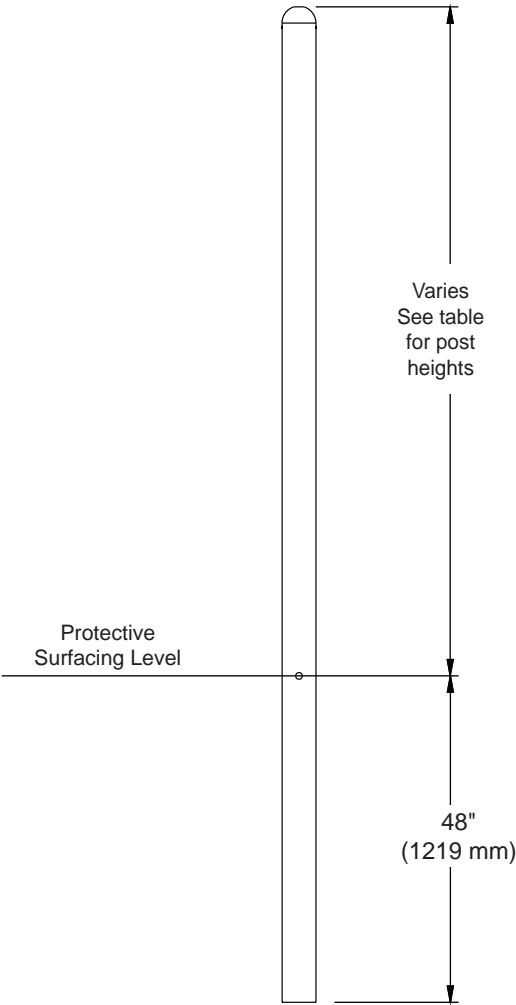


Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0008GZ	108" (2743 mm)	60.6 lbs. (27,5 kg)
ZZPM0036GZ	144" (3658 mm)	80.4 lbs. (36,2 kg)
ZZPM0056GZ	168" (4267 mm)	97 lbs. (43,7 kg)
ZZPM0066GZ	180" (4623 mm)	104.2 lbs. (47,4 kg)



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**. Ensure the hole is at GroundZero® depth.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0008GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5026	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 48"	1

PM0036GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5027	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 48"	1

PM0056GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP0286	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 48"	1

PM0066GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5073	POST - 5.00" O.D. x 180.00" STEEL w/ CAP & LBL AT 48"	1



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Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

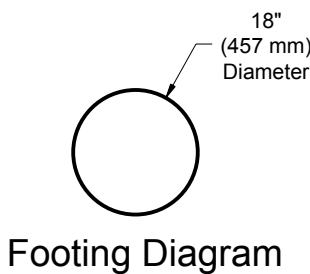
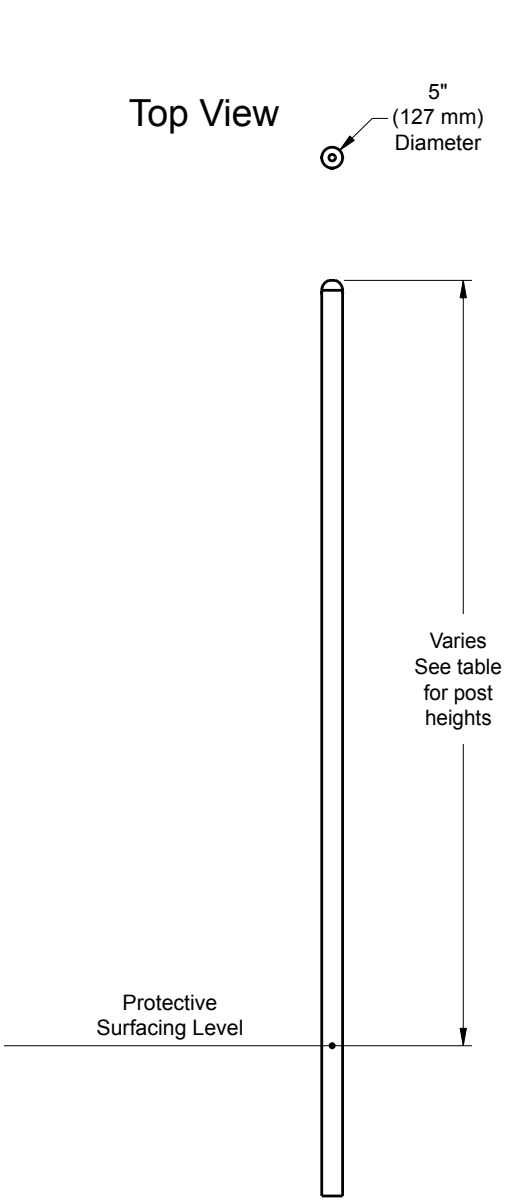


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

Installation Instructions

Playmakers® Models PM0017A, PM0027A, PM0037A, PM0047A, PM0057A, PM0067A, PM0079A, PM0129A, PM0136A, PM0138A, PM0267A, PM0269A

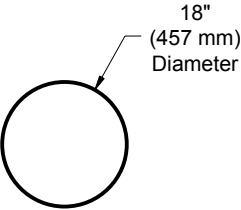
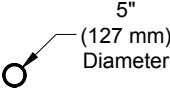
Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

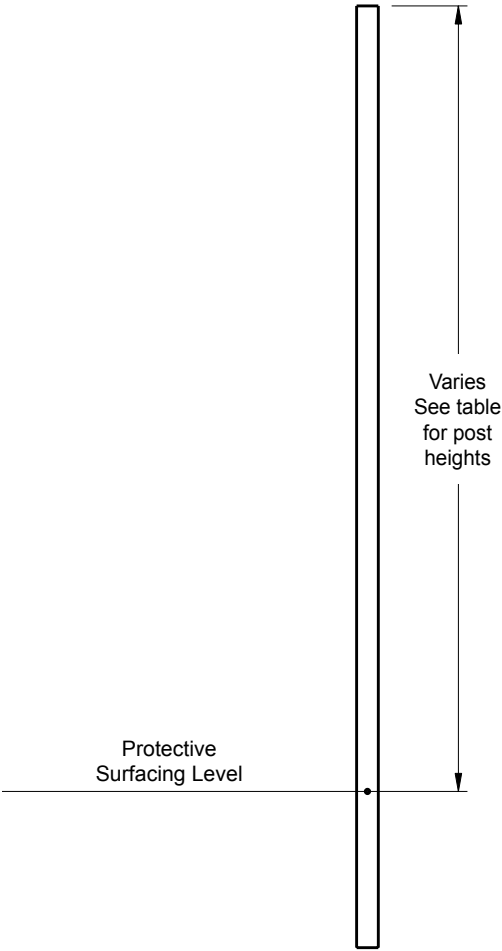
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 kg)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



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Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A,
PM0026A, PM0036A, PM0046A, PM0056A, PM0066A,
PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

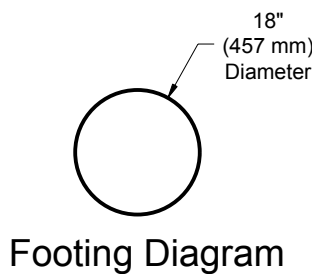
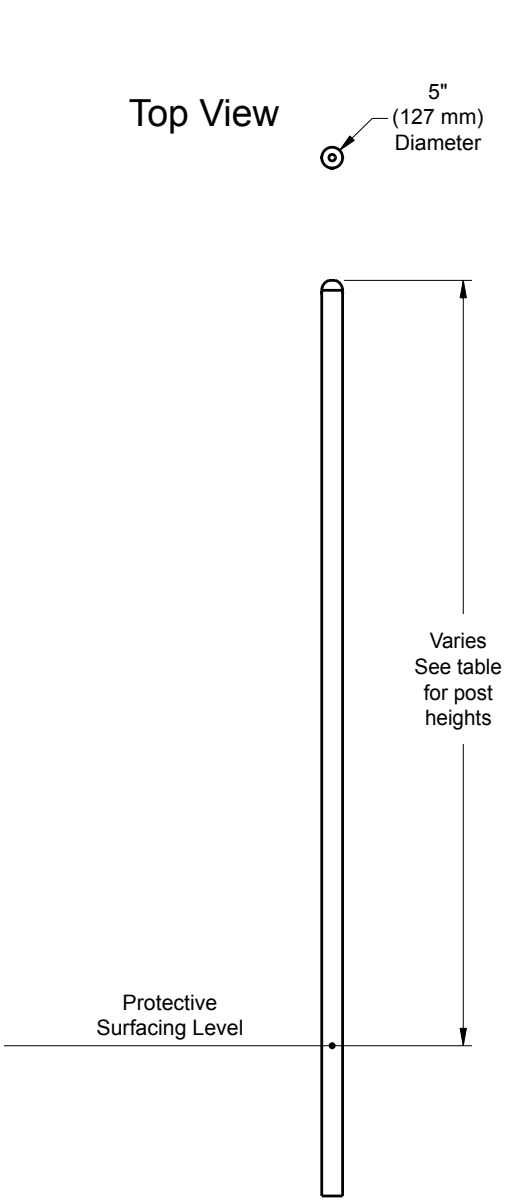


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

Elevation View

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1



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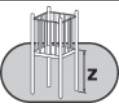


Assembly View

Installation Instructions
Playmakers® Model PM0357A
Aluminum Post w/ Cap
5 in. x 84 in.

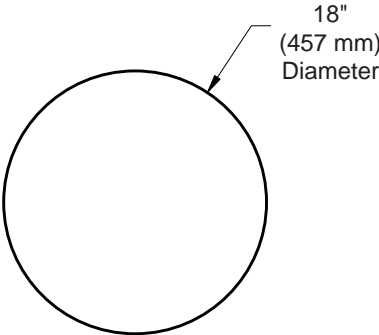
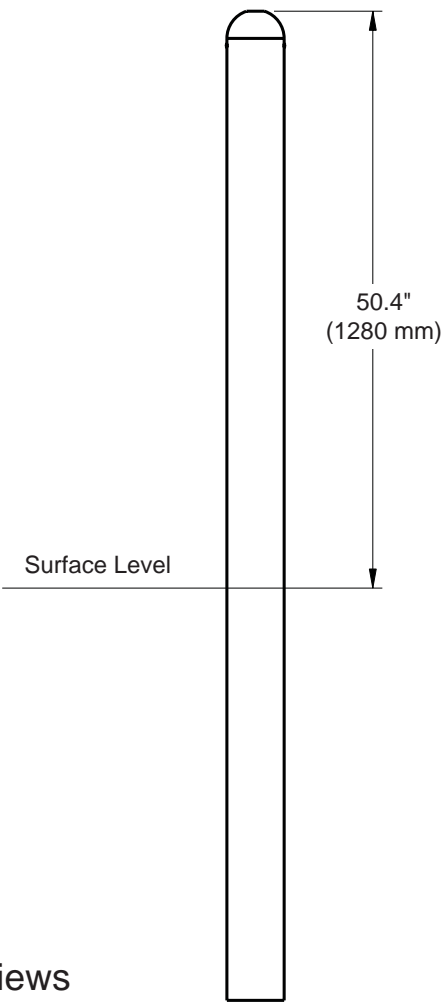
Installation Preparation

- Recommended Crew: Two (2) adults
Installation Time: 1 installation-hour
Weight: 19.4 lbs. (8,8 kg)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)
Use Zone: Refer to Master Drawing

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View



Footing Diagram



Installation Instructions

___**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___**Step 2:** Separate and identify all components and hardware.

___**Step 3:** Excavate footings as shown in the **Support Post Footing Details** in the *Playmaker Guidelines*.

___**Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___**Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0357A - ALUMINUM POST W/ CAP (5 in. O.D. x 84 in)

PART NO.	DESCRIPTION	QTY.
CAP5070	POST - 5.00" OD x 84.00" ALUMINUM w/CAP	1

PLAYWORLDTM

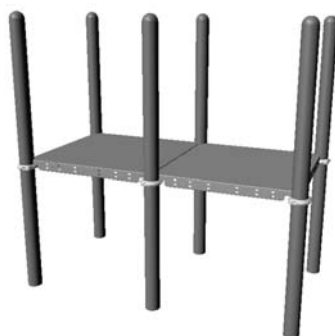
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Installation Instructions Playmakers® PM0616 and PM0629 Square and Long Coated Perforated Decks



ZZPM0616
Square Deck



ZZPM0629
Long Deck

Assembly View

Installation Preparation

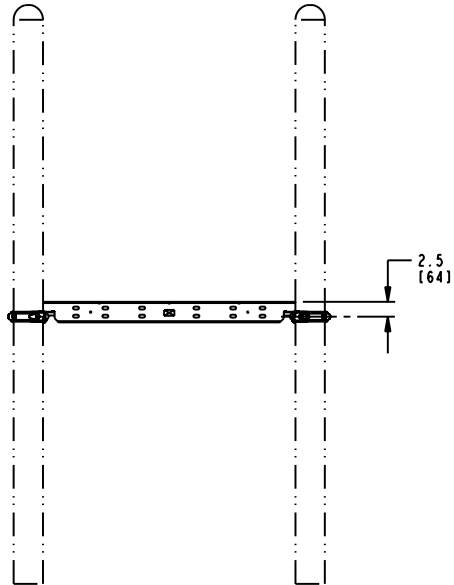
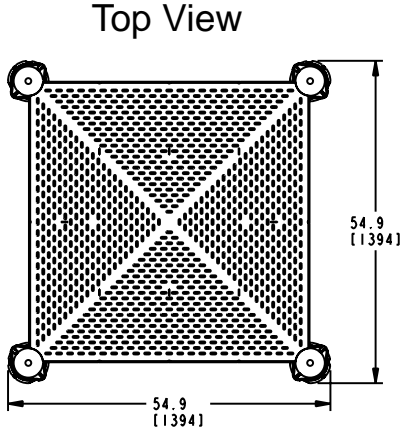
Recommended Crew (PM0616):..... Two (2) adults
 Recommended Crew (PM0629):..... Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

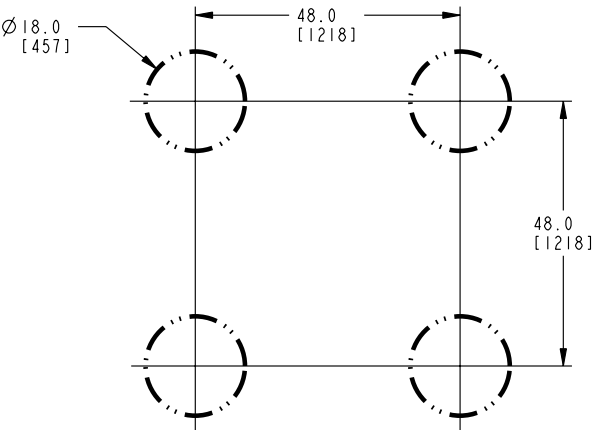
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

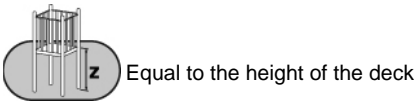
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

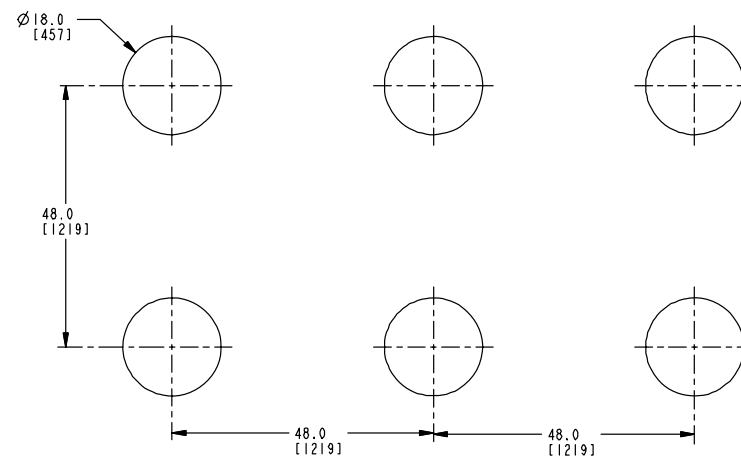
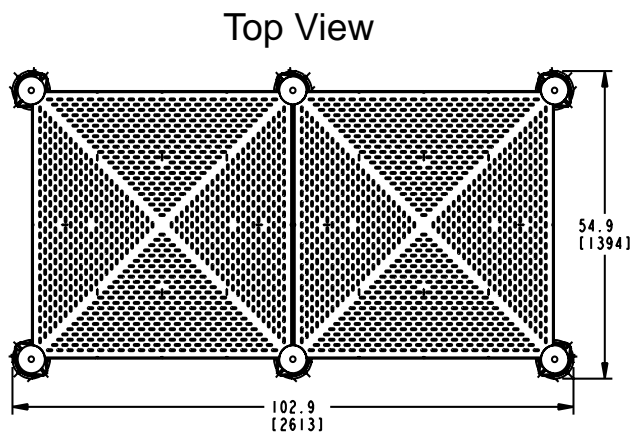


Footing Diagram

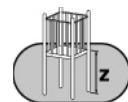
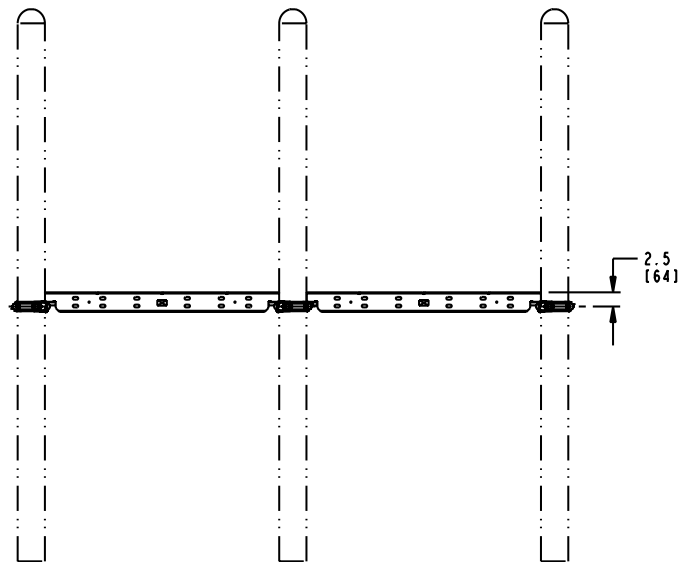


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



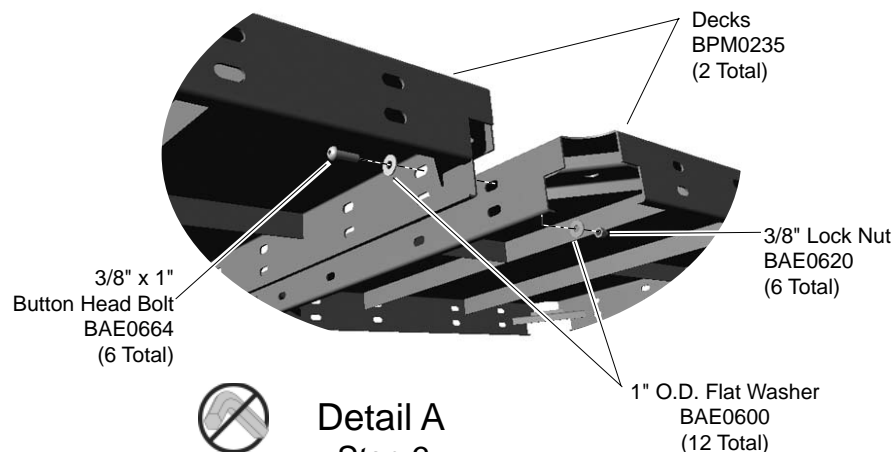
Equal to the height of the deck

Elevation View
Model PM0629



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

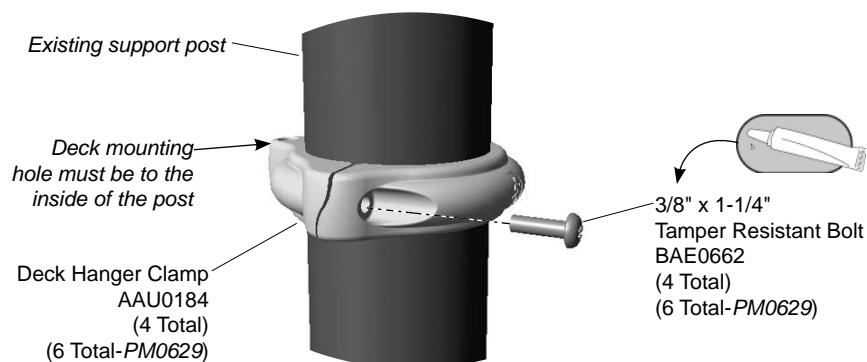


Detail A

Step 3

(Model PM0629 Only)

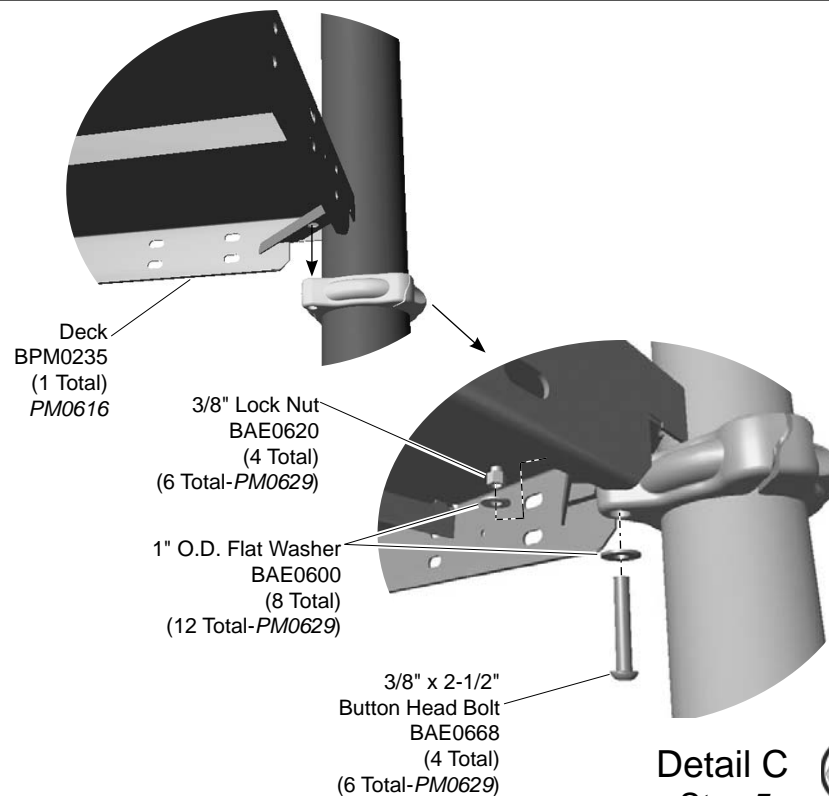
Attach the two decks together.



Detail B

Step 4

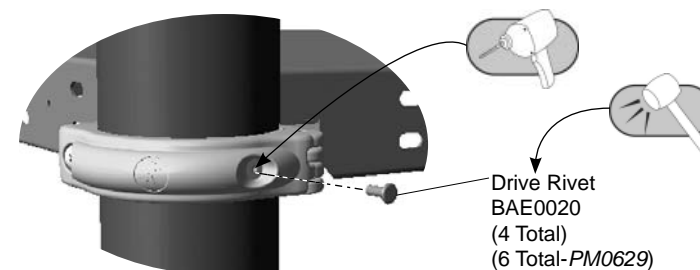
Attach the deck clamps to the support posts.



Detail C

Step 5

Attach the decks to the clamps.



Detail D

Step 7

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: (Model PM0629 Only) Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0235	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



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Installation Instructions Playmakers® PM0617, and PM0639 Triangular and 45 Degree Tri-Deck Coated Perforated Decks



ZZPM0617
Triangular Deck



ZZPM0639
45 Degree Tri-Deck

Assembly View

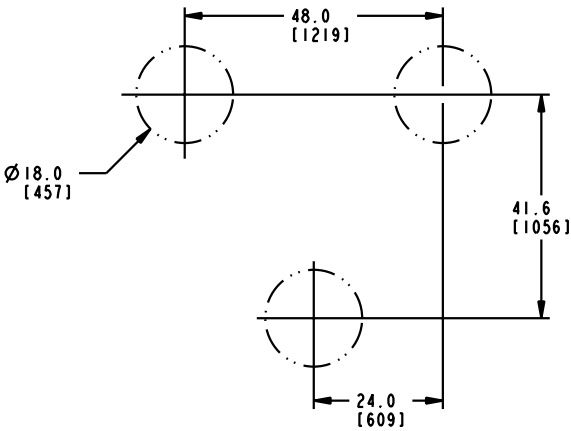
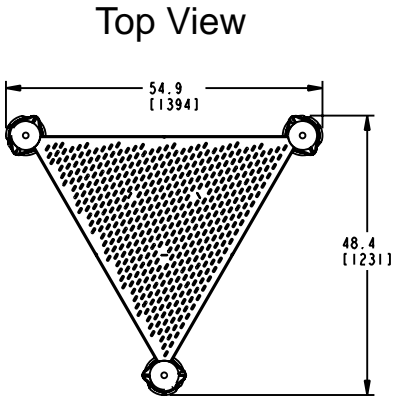
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

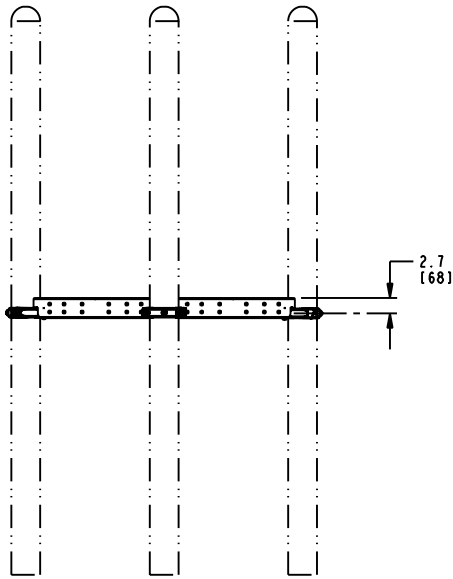
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions

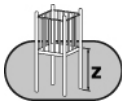
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
Model PM0617

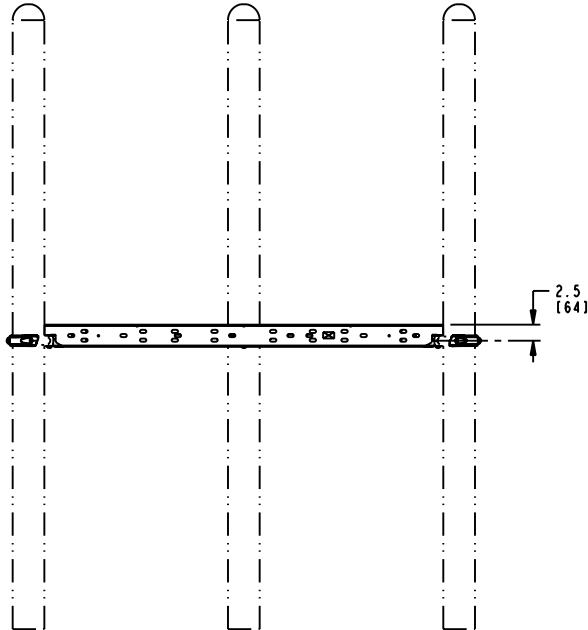
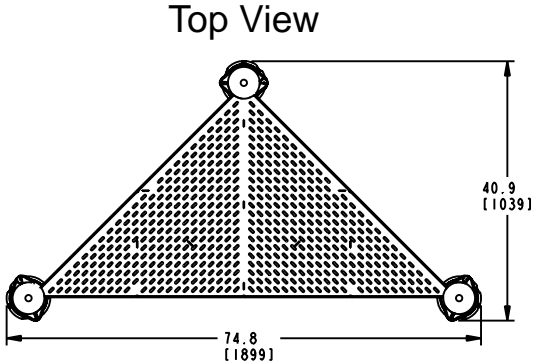


Equal to the height of the deck

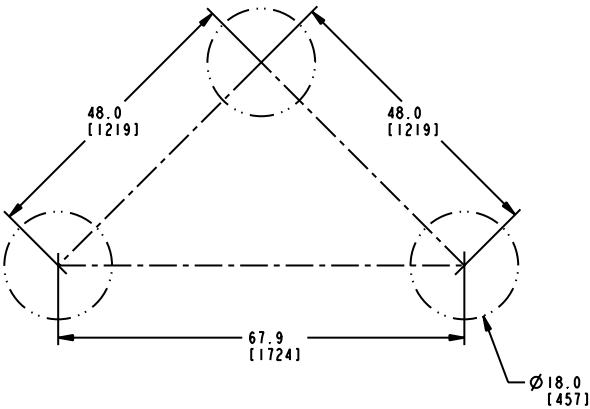


Installation Instructions

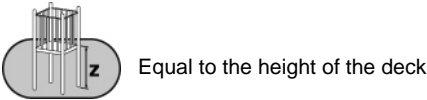
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0639

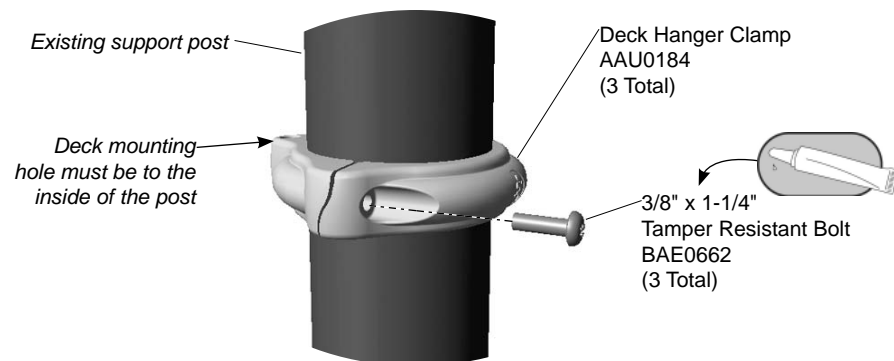


Footing Diagram



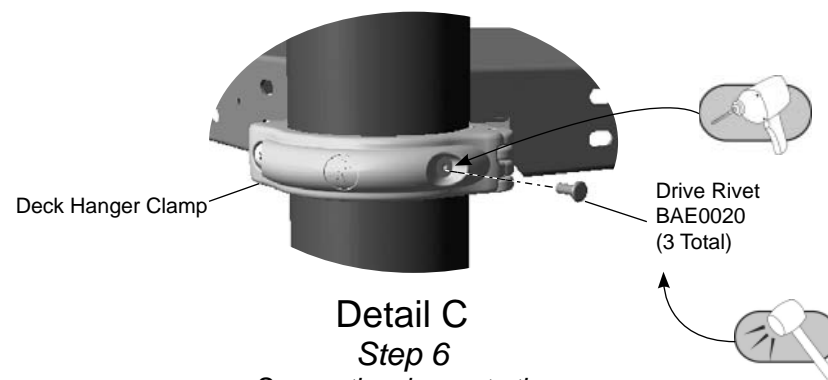
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3

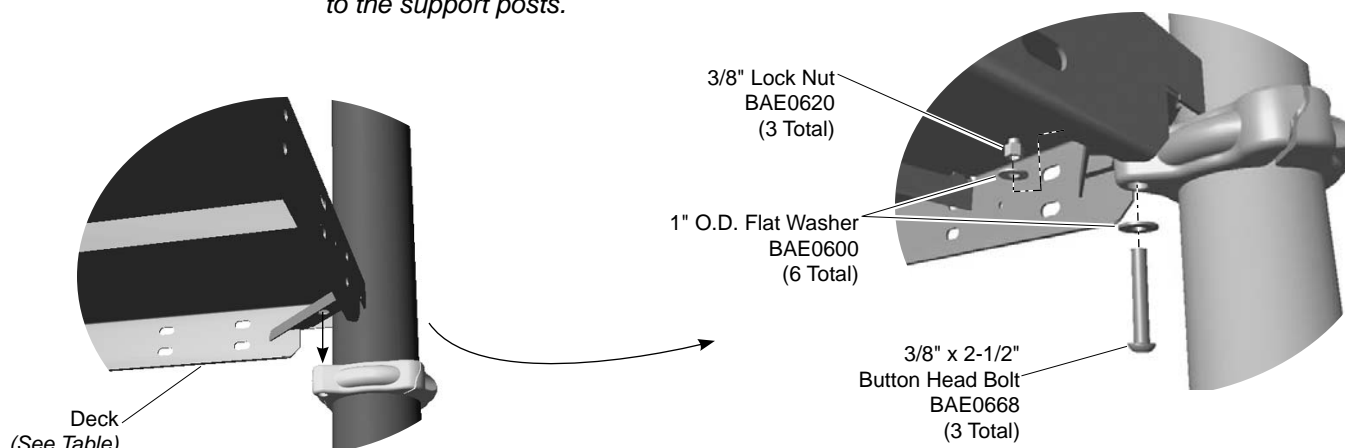
Attach the deck hanger clamps to the support posts.



Detail C

Step 6

Secure the clamps to the support posts.



Detail B
Step 4

Attach the deck to the deck hanger clamps.

Model	Deck Shape	Deck Part Number
ZZPM0617	Triangular	BPM0287
ZZPM0639	45° Tri-Deck	BPM0289

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: Attach the clamps to the support posts. See **Detail A**. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 4: Attach the deck to the clamps. See **Detail B**. Using adequate manpower, position the deck between the posts and resting on top of the clamps. Align the holes and attach as shown.

Final Details.

Step 5: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0617 - TRIANGULAR COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0287	PLATFORM - PM TRIANGULAR PERF	1

PM0639 - 45 DEGREE TRI-DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0289	PLATFORM - PM 45 DEG TRI DECK	1



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Assembly View (representative model)

Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S
36 in. (914 mm) Transfer Station and
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (In-Ground): 3 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.09 cubic yard (0,07 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

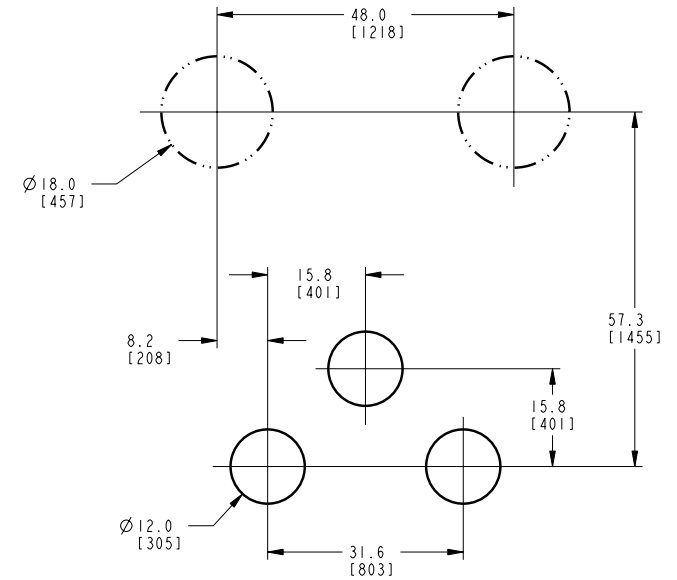
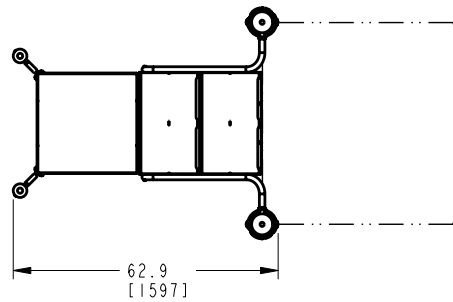
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

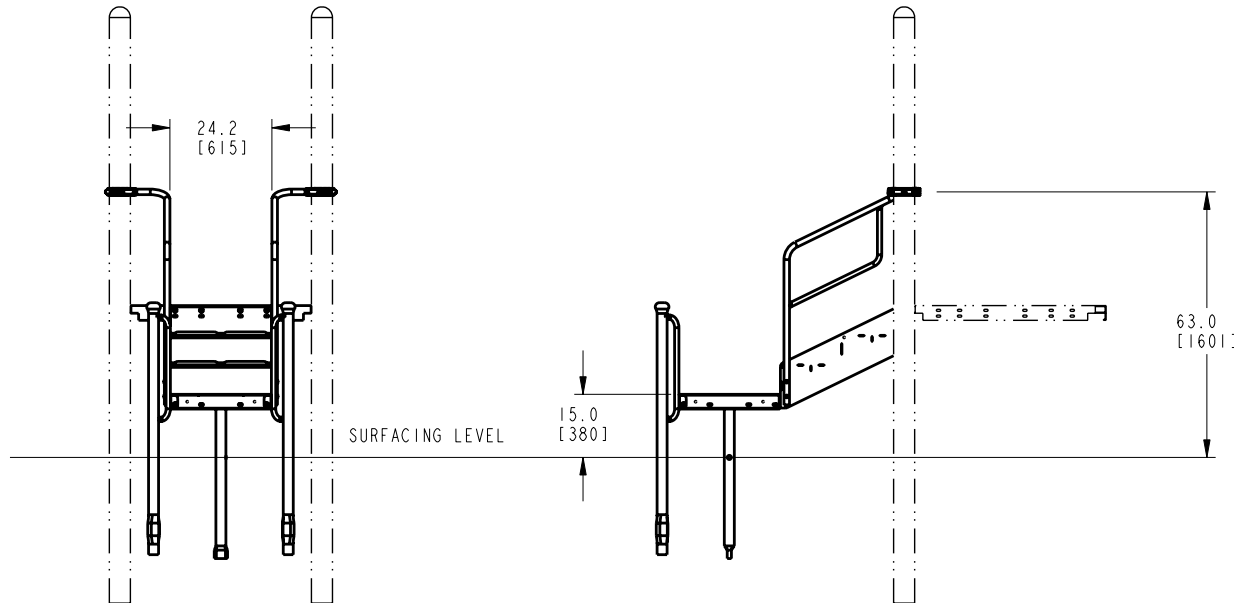
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

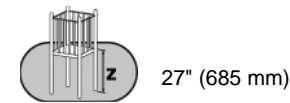
Top View



Footing Diagram



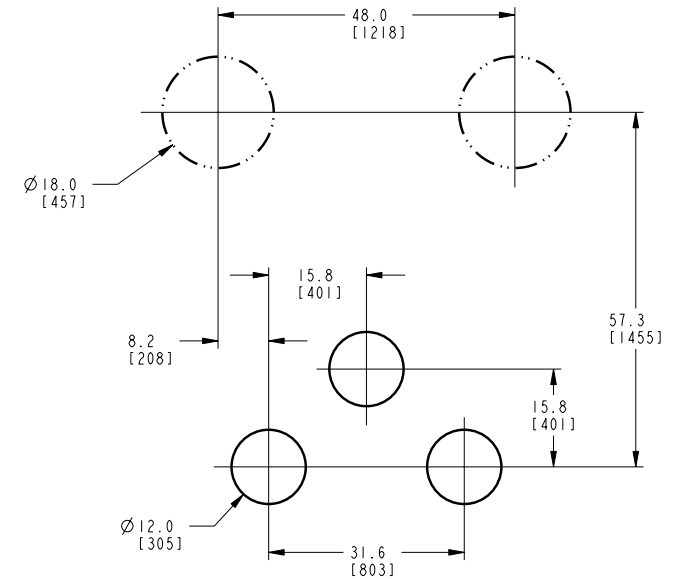
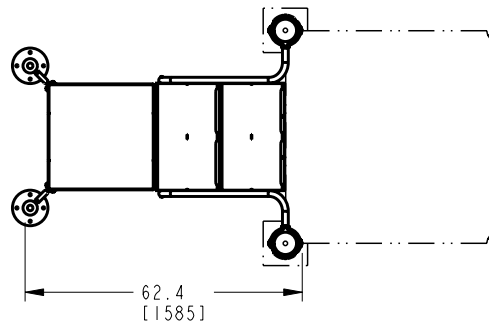
Elevation View
PM2006



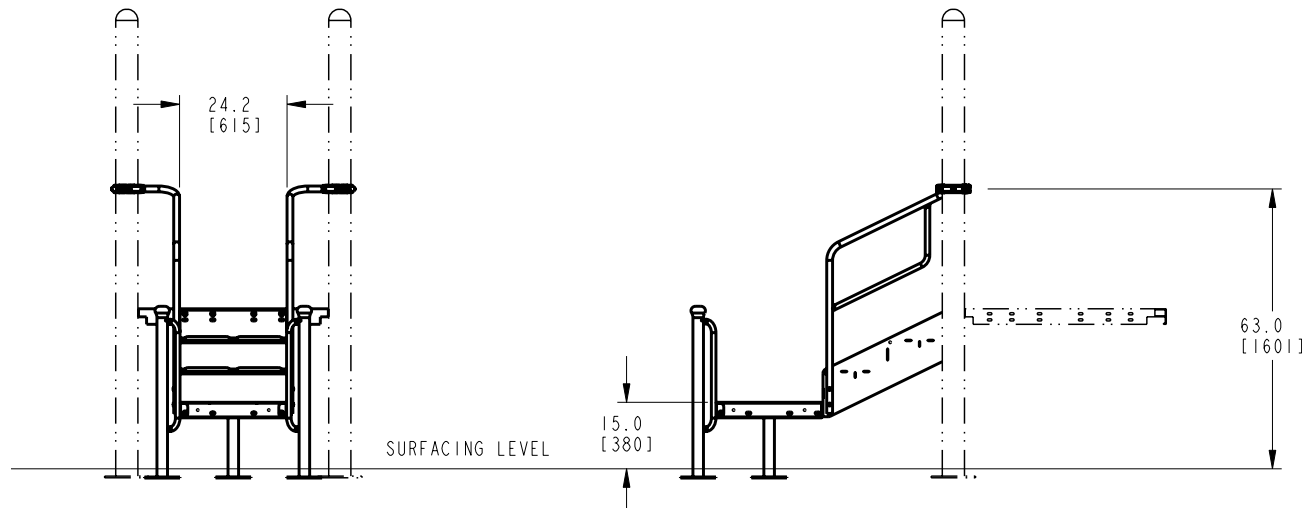
Installation Instructions

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Bottom #	[Millimeters]

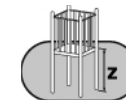
Top View



Footing Diagram



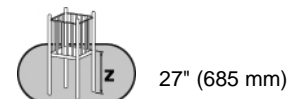
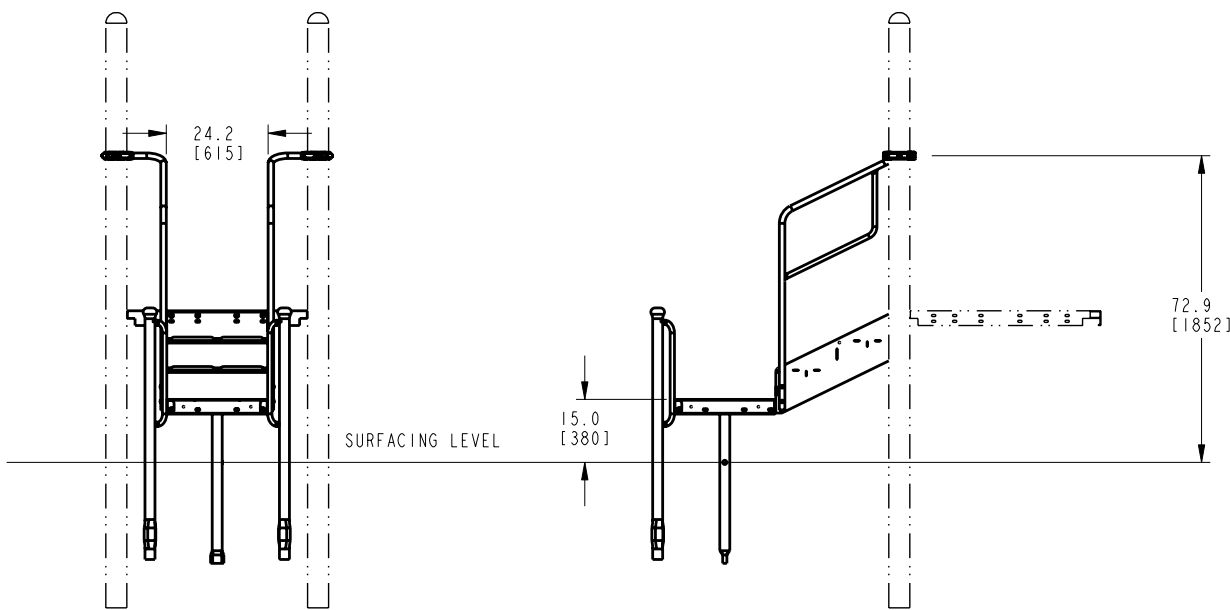
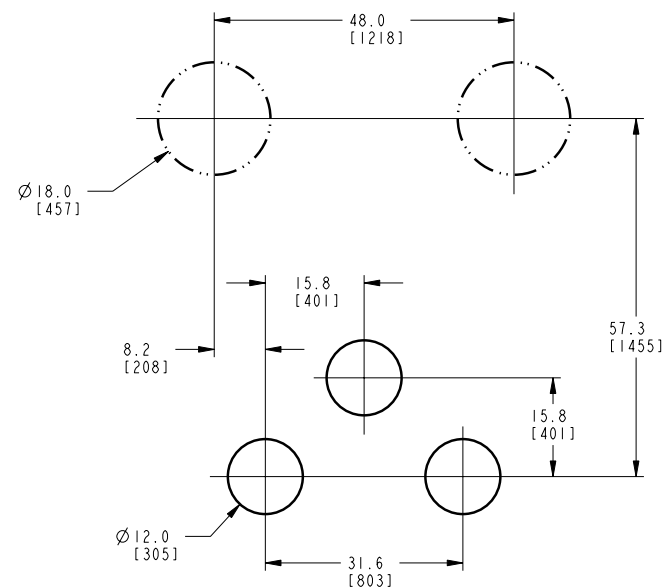
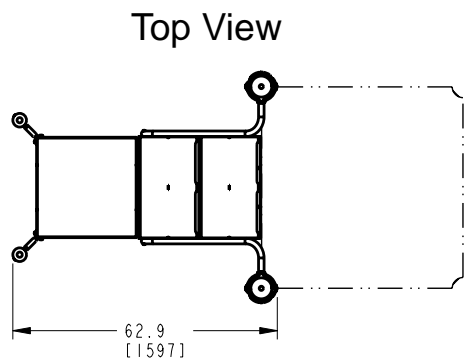
Elevation View
PM2006S



27" (685 mm)

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM2007

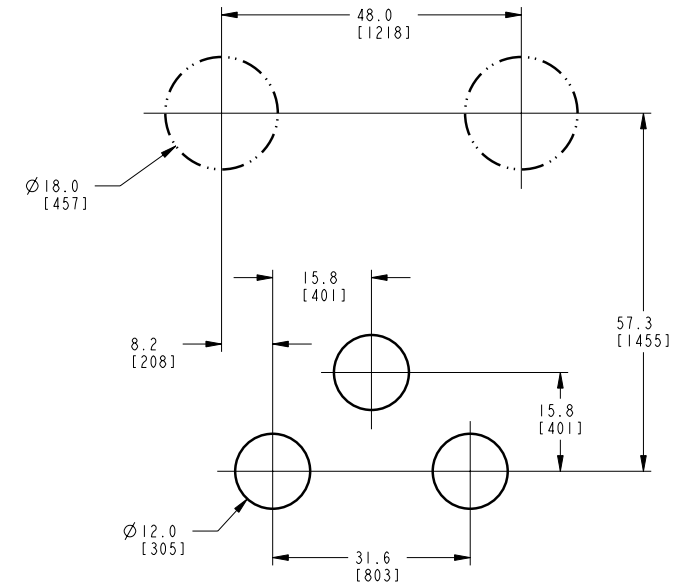
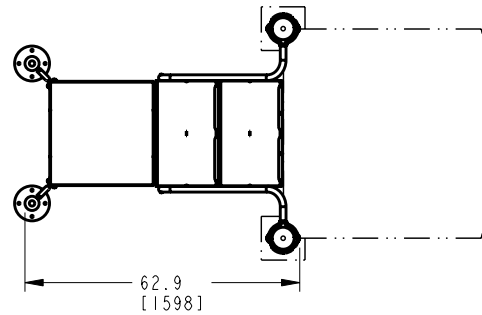


Installation Instructions

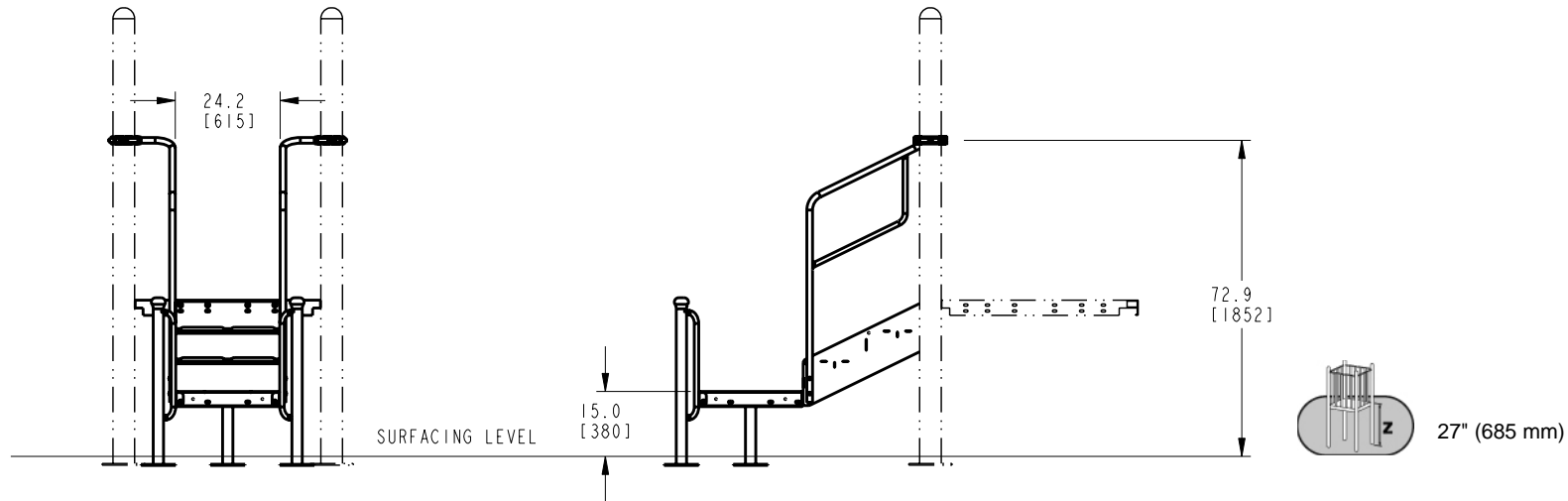
KEY

Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



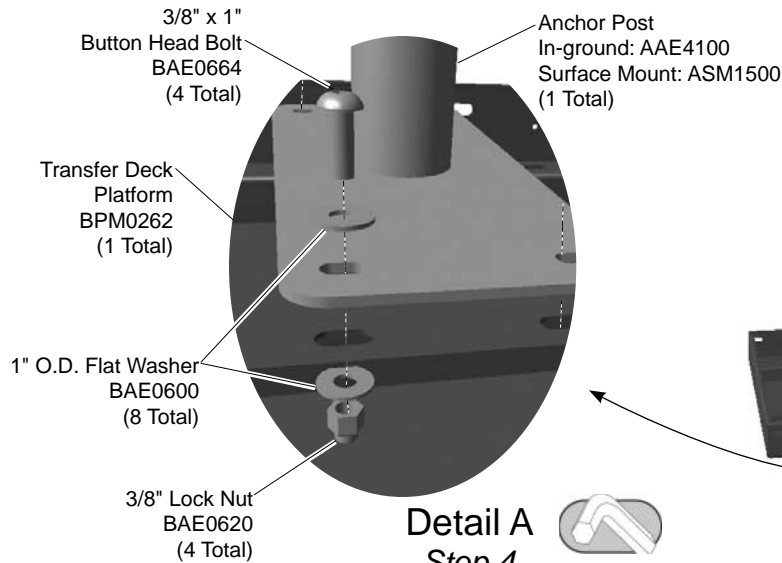
Footing Diagram



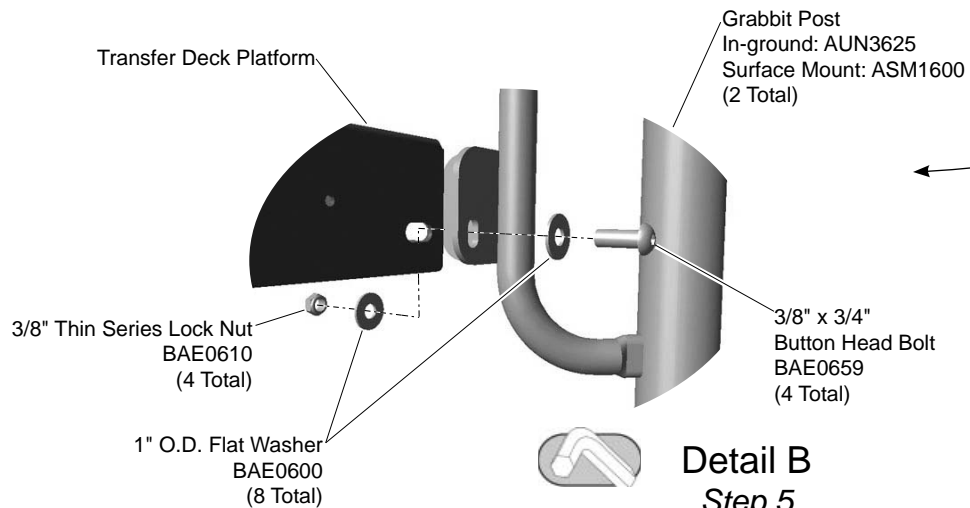
Elevation Views
PM2007S

Installation Instructions

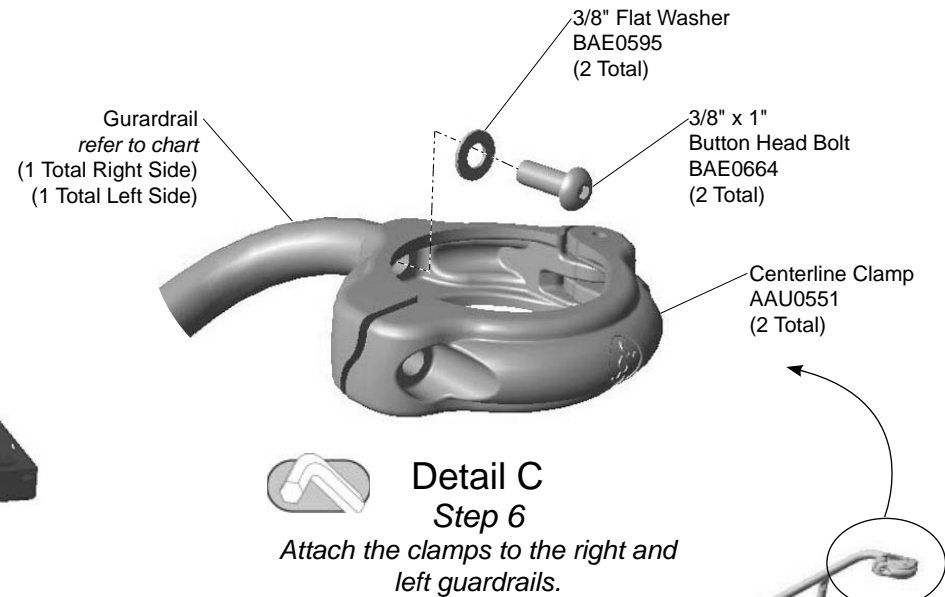
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Attach the anchor post to the transfer deck.



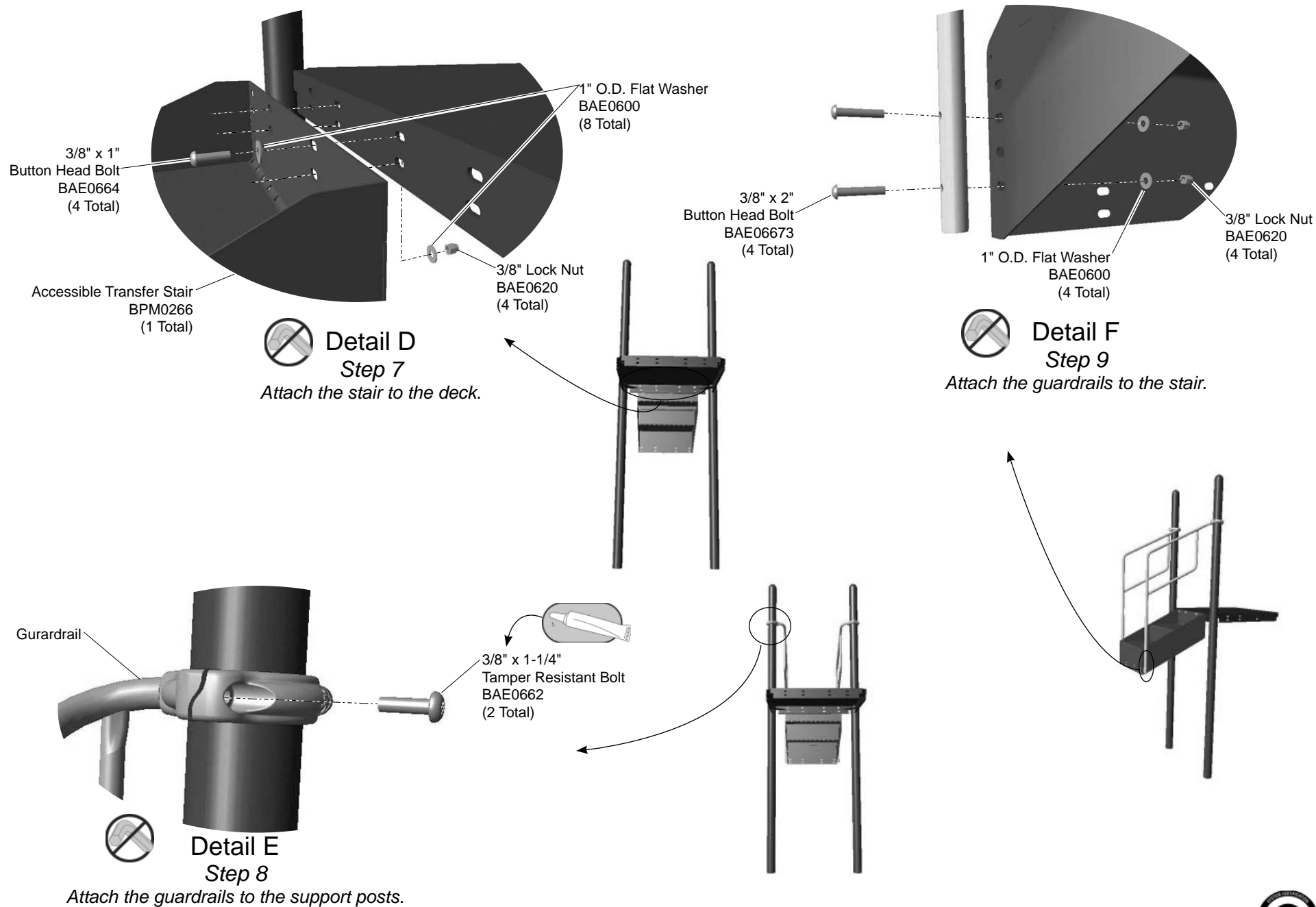
Attach the grabbit post to the platform.



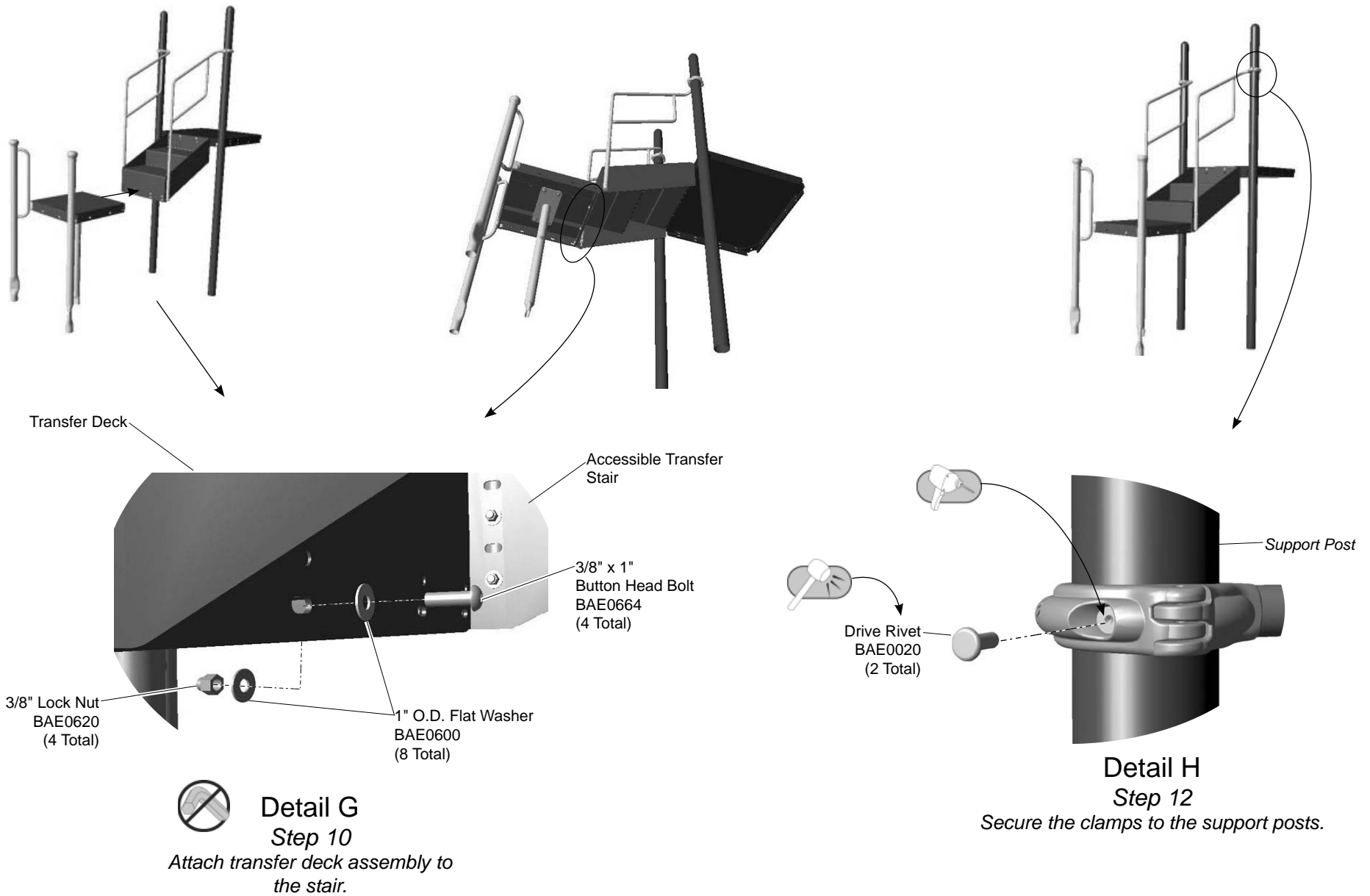
Attach the clamps to the right and left guardrails.

Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056

Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

Attach the anchor post to the transfer deck.

Step 4: Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbits to transfer deck.

Step 5: Attach grabbits to transfer deck. See **Detail B**. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.

Step 6: Attach the clamps to guardrails. See **Detail C**. Position the end of each guardrail top rail against the neck of each clamp and attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

Step 7: Attach the stairs to existing support deck. See **Detail D**. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.

Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.

The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.

Step 9: Attach the guardrails to the stair. See **Detail F**. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

Step 10: Attach transfer deck assembly to the stair. See **Detail G**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBL COATED TRANSFER w/SLOTS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBLE COATED TRANSFER w/SLOTS	1

ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSIBLE COATED TRANSFER w/SLOTS	1



Assembly View

Installation Instructions







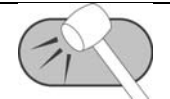
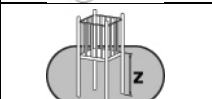
Universal Model UN2019

Platform Approach Step

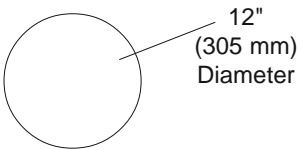
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 40.4 lbs. (18,2 kg)
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

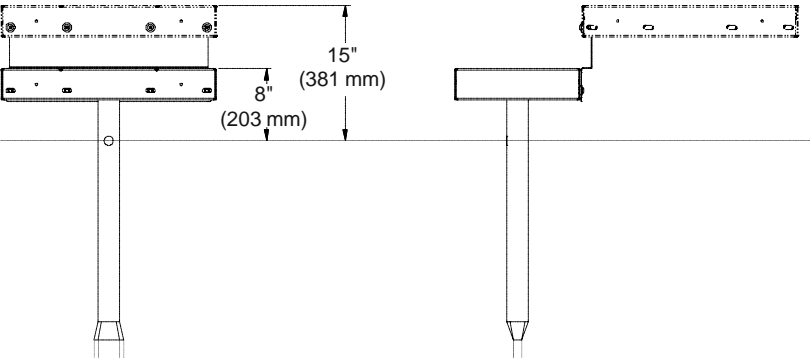
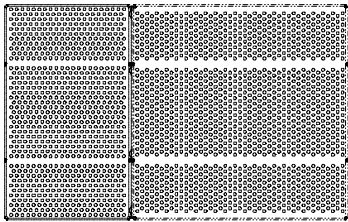
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	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

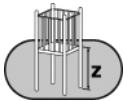


Footing Diagram

Top View



Elevation Views

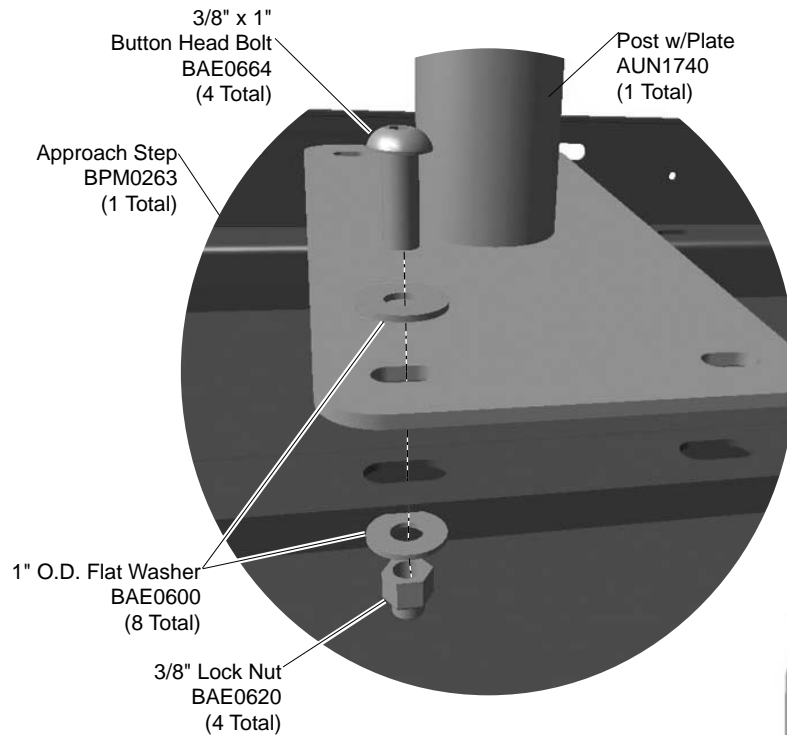


15" (381 mm)



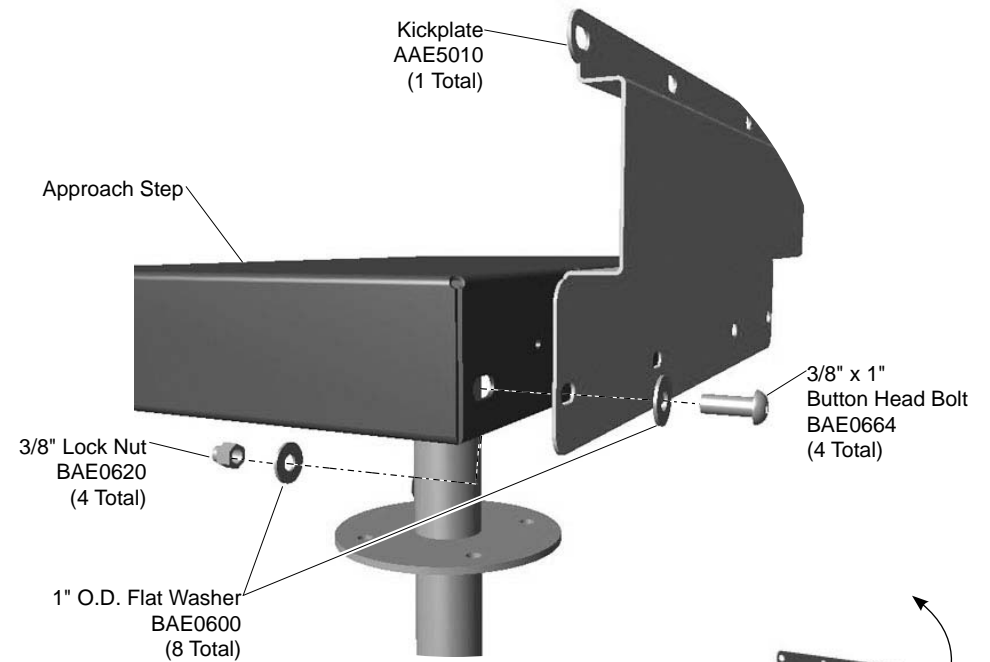
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 4

Attach the anchor post to the approach step.

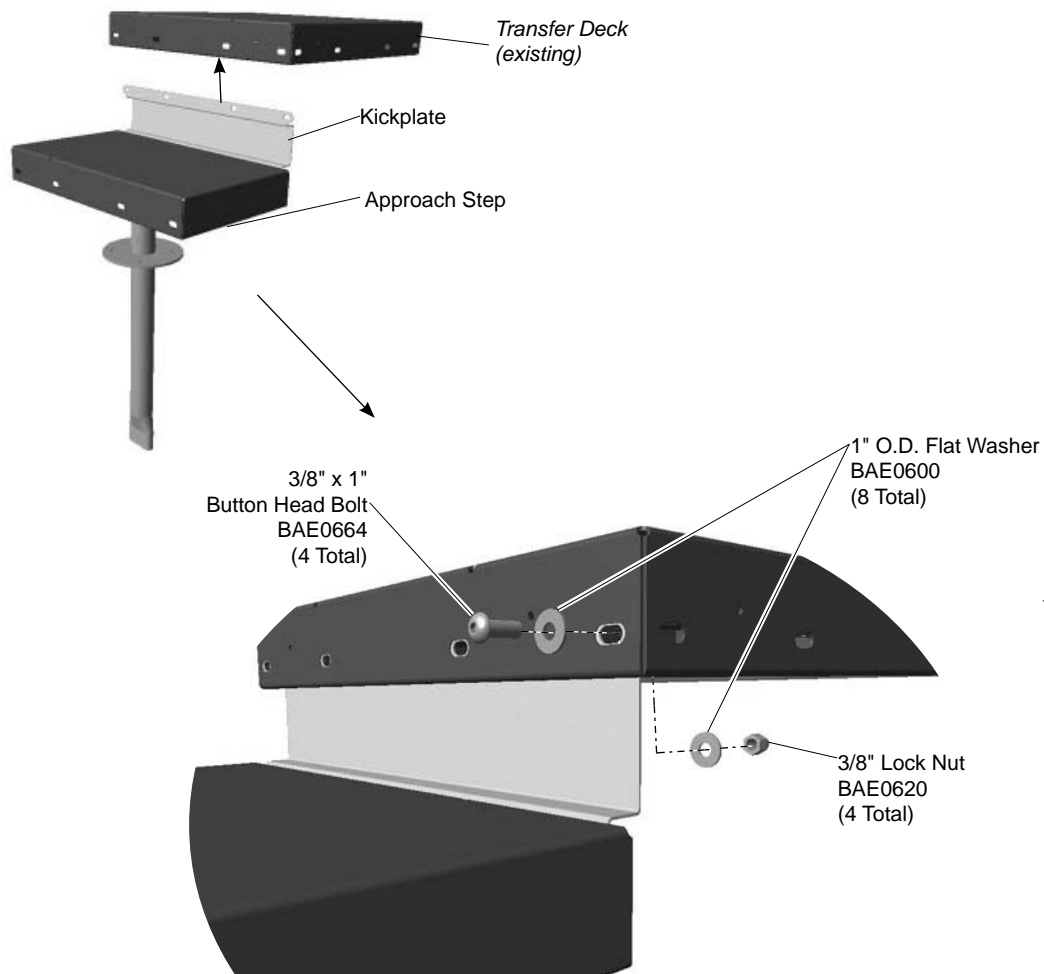


Detail B Step 5

Attach the kickplate to the
approach step.



Installation Instructions



Detail C Step 6

Attach the kickplate to the transfer deck.



Step 7



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

Step 4: Attach the support leg to the approach step. See **Detail A**. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

Step 5: Attach the kickplate to the approach step. See **Detail B**. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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Assembly View (representative model)

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

Installation Instructions

Playmakers®

Models PM2658, PM2696, PM3126-PM3128
24"-72" (610-1829 mm) Glide Slides

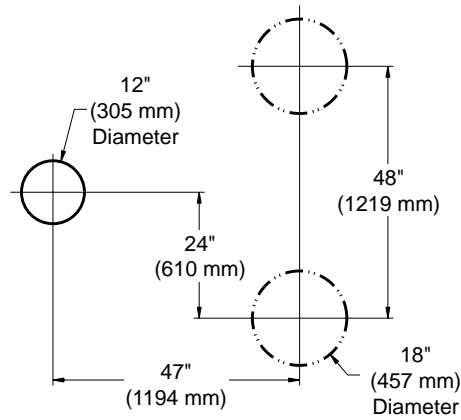
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24"-60": ASTM/CSA: 2-12, EN: 2-14
 72": ASTM/CSA: 5-12, EN: 6-14

ICON KEY

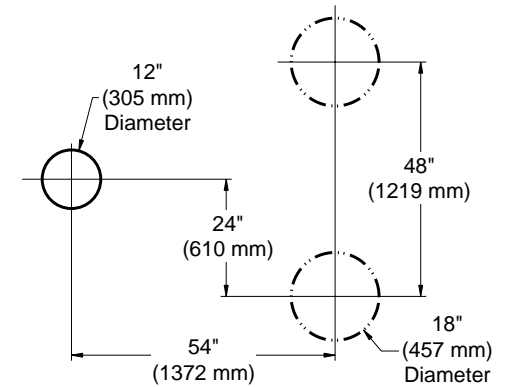
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

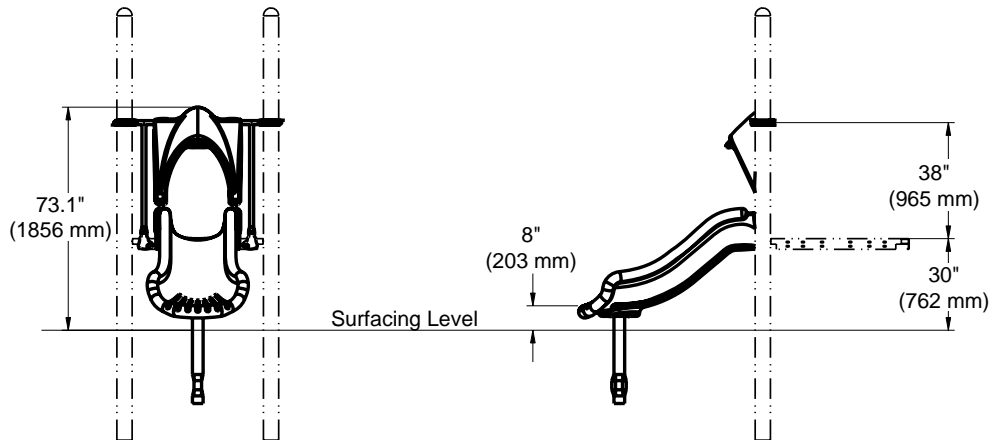
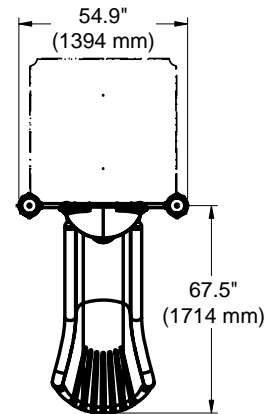
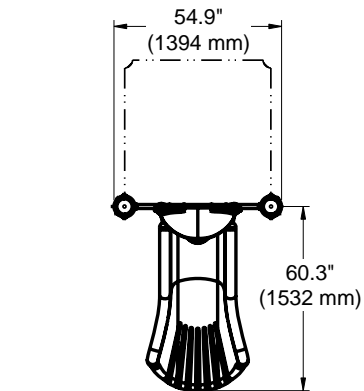


Footing Diagram

If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.

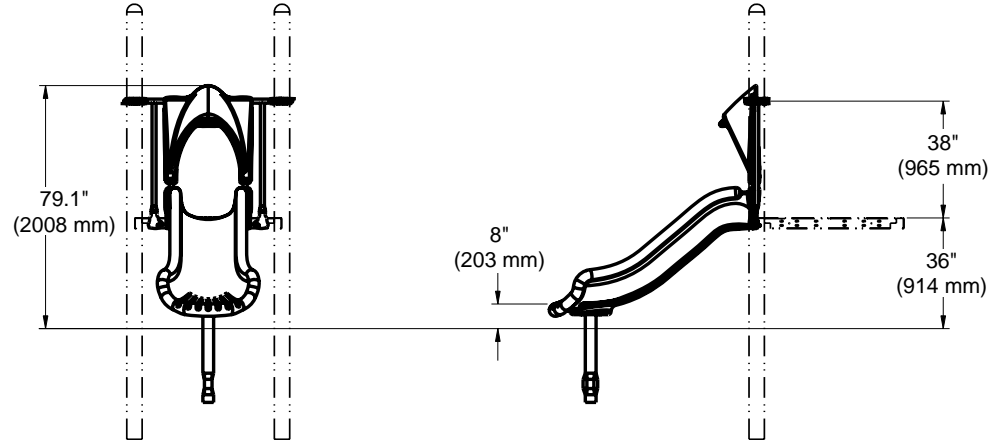


Footing Diagram

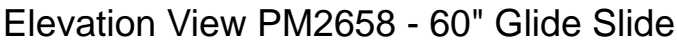
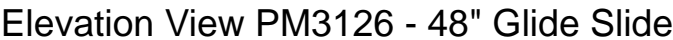


Elevation View PM3128 - 30" Glide Slide

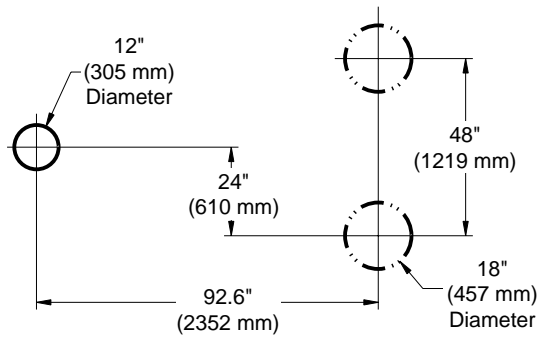
(24" slide: exit will be 2" (50mm) above the surfacing level)



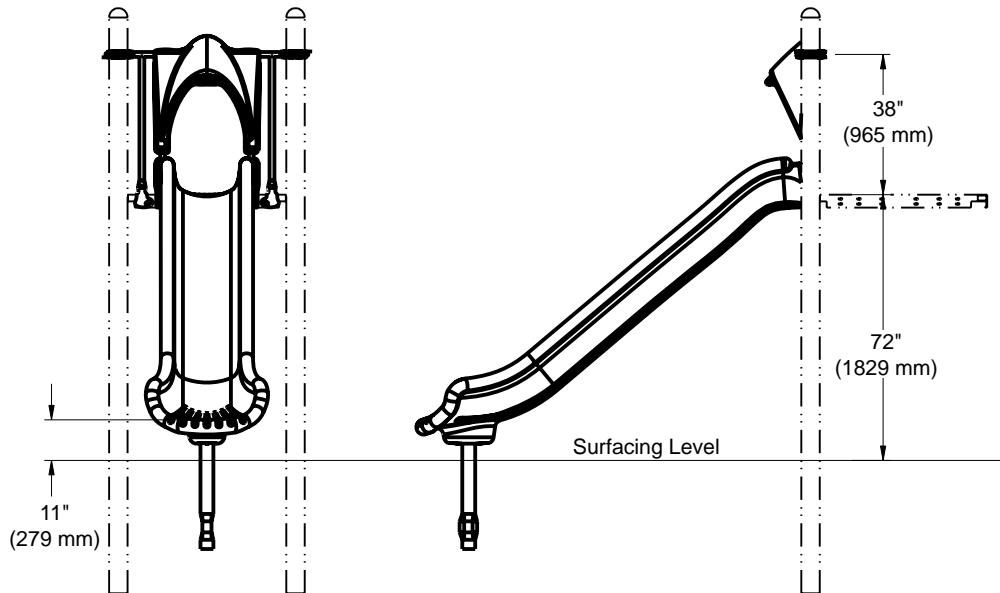
Elevation View PM3127 - 36" Glide Slide



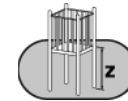
Installation Instructions



Footing Diagram



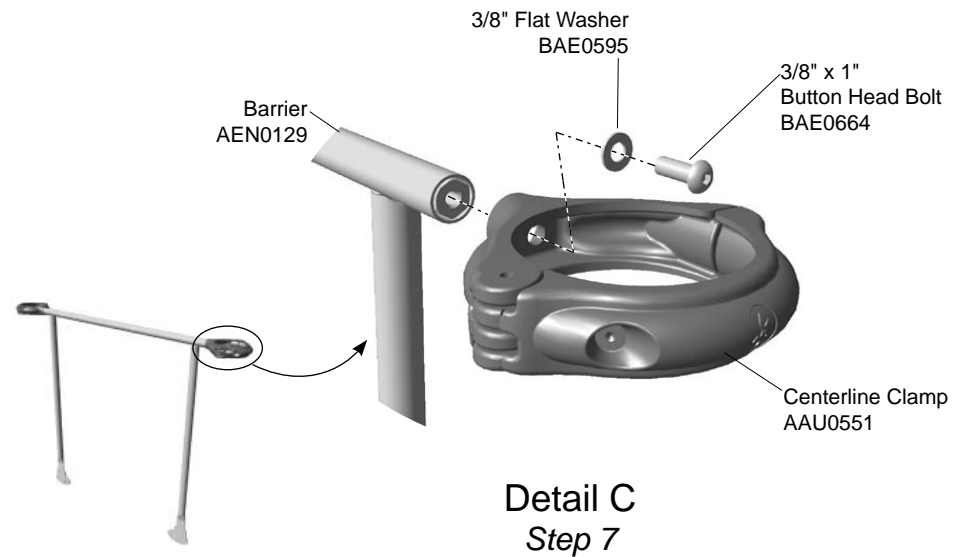
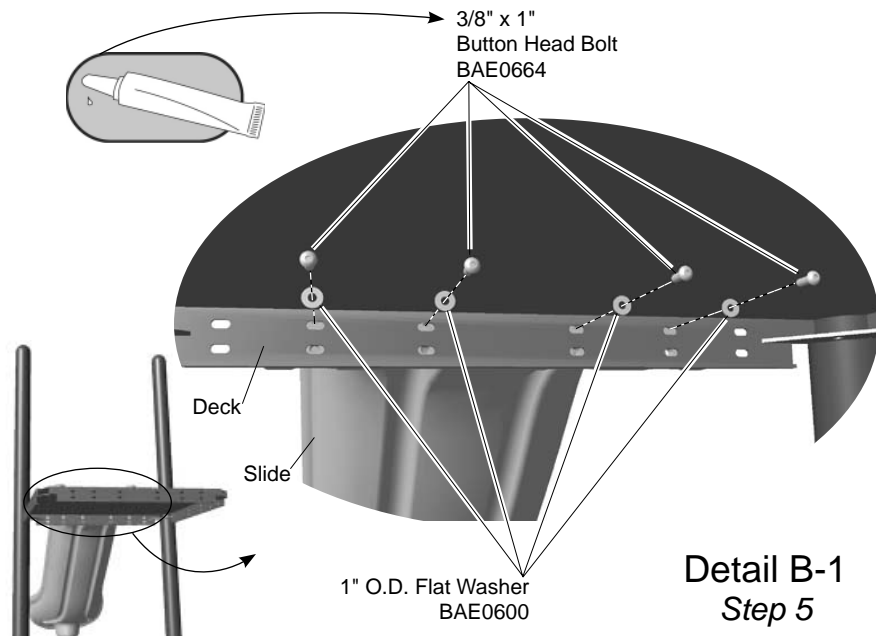
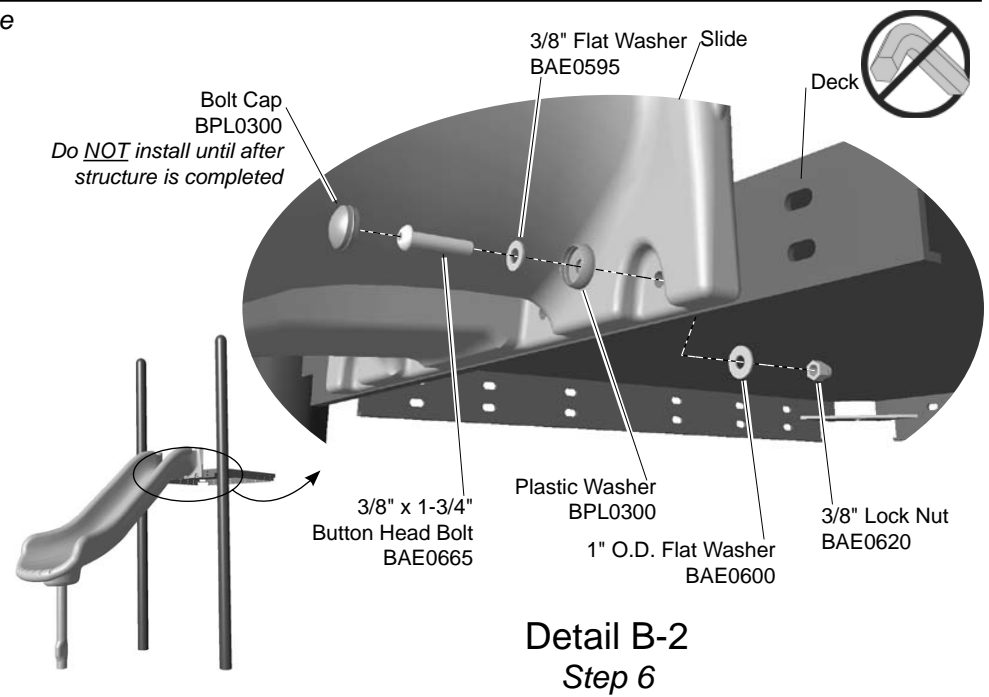
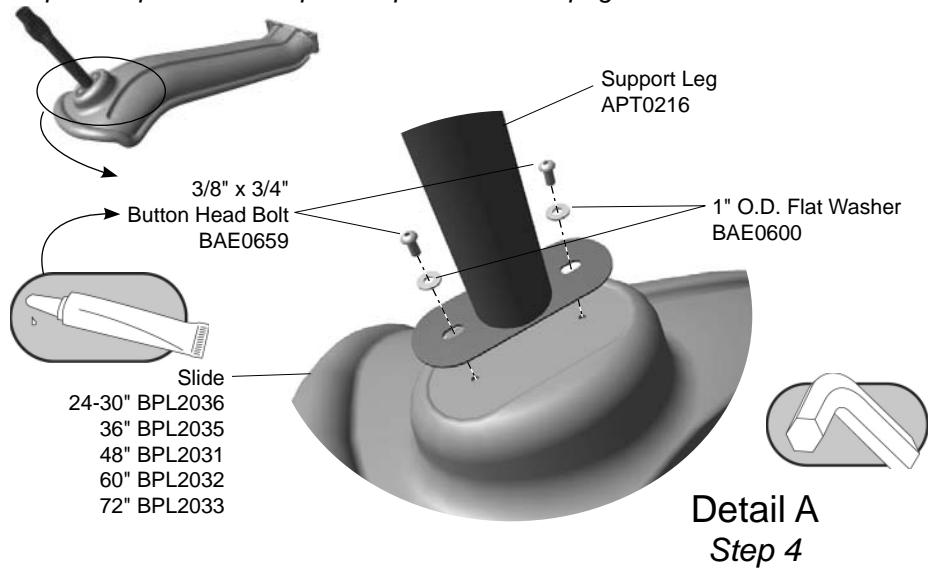
Elevation View PM2696 - 72" Glide Slide



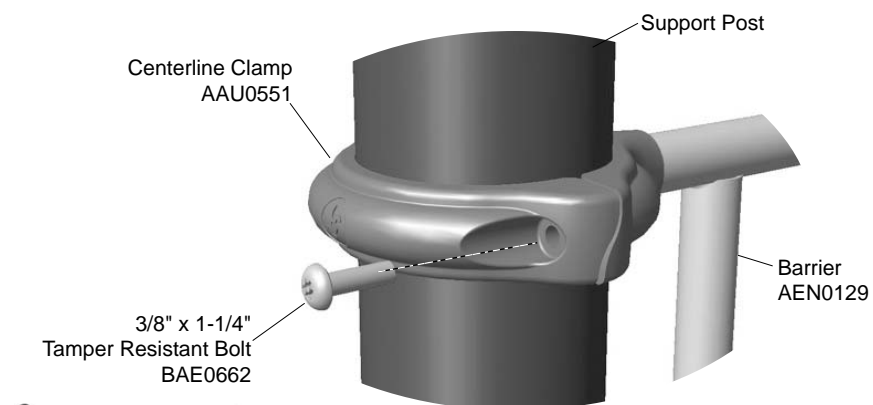
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

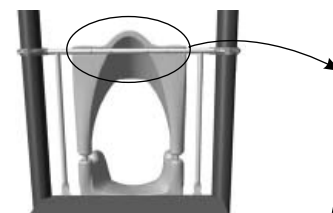
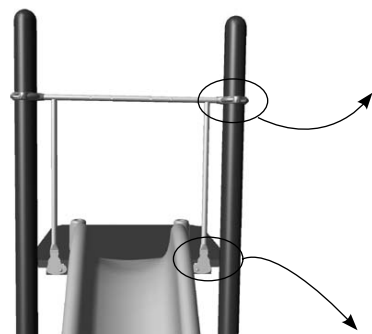
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



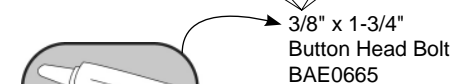
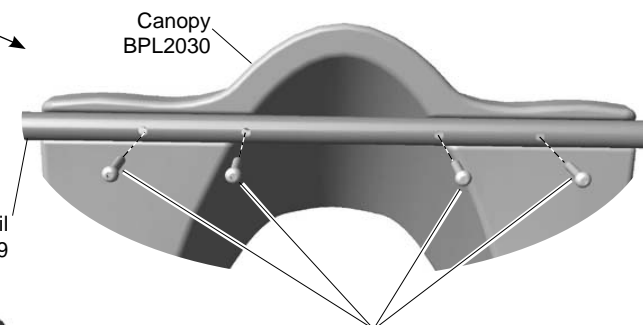
Installation Instructions



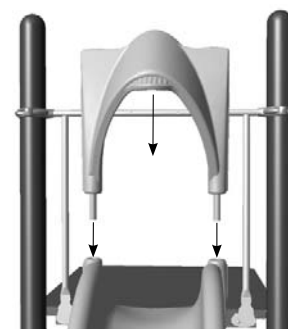
Detail D-1
Step 8



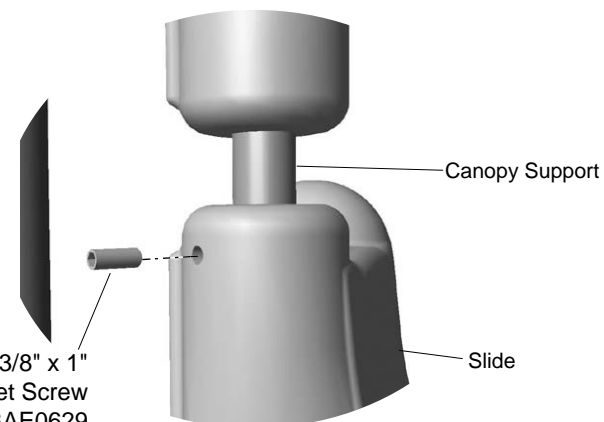
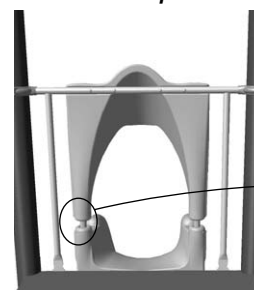
Barrier Top Rail
AEN1029



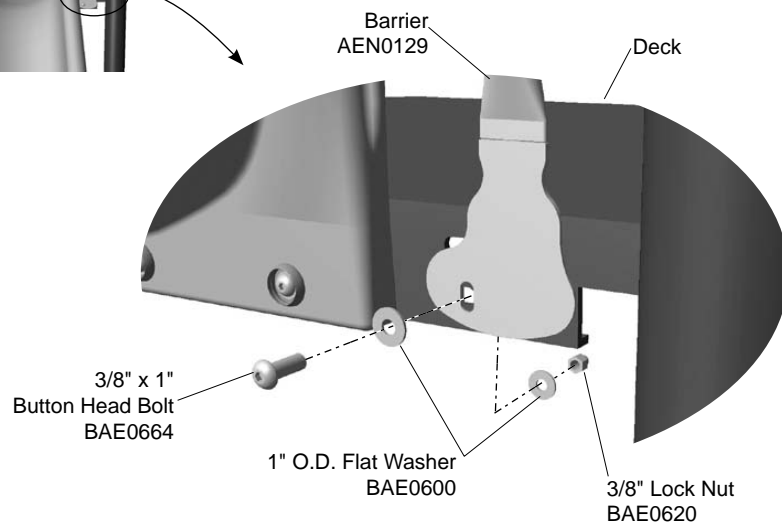
Detail E-2
Step 10



Detail E-1
Step 10



Detail F
Step 11

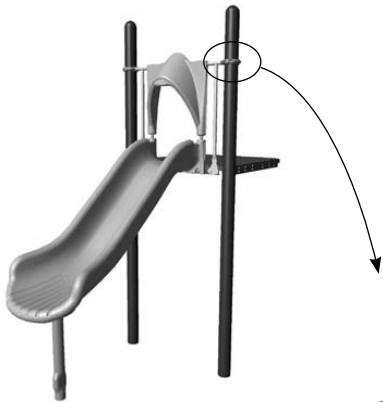


Detail D-2
Step 9

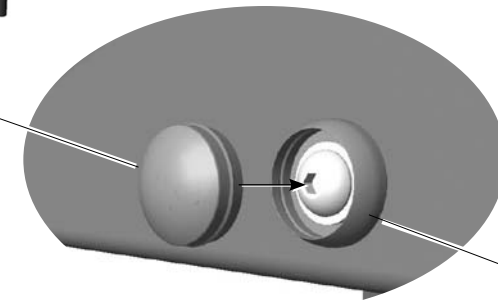
Installation Instructions



Step 12

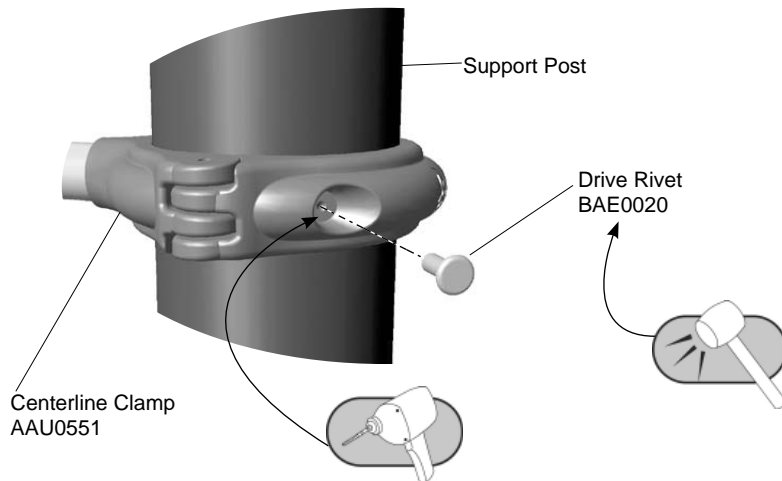


Bolt Cap
BPL0300



Plastic Washer
BPL0300

Detail H
Step 14
(refer to Detail B-2 also)



Centerline Clamp
AAU0551

Drive Rivet
BAE0020

Detail G
Step 13

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

__**Step 13:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

__**Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

__**Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Installation Instructions

Playmakers® Model PM4290

Post Mounted Steering Wheel

Installation Preparation

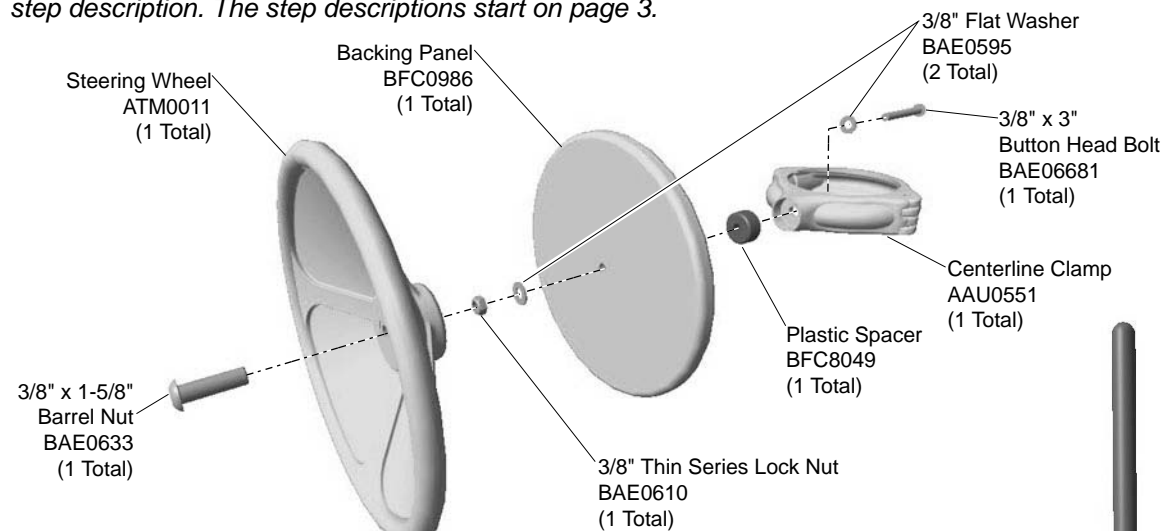
- Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Weight: *8.7 lbs. (3,9 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

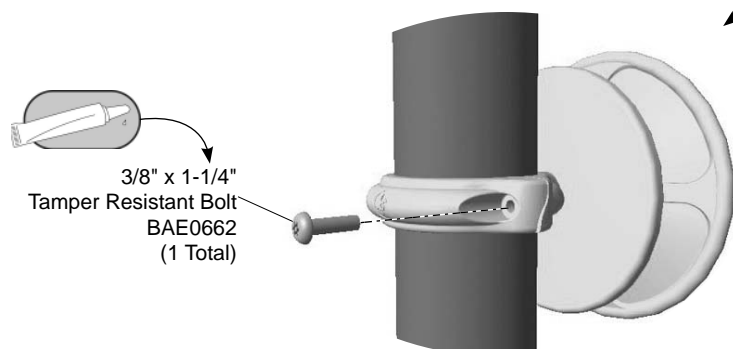
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 3.



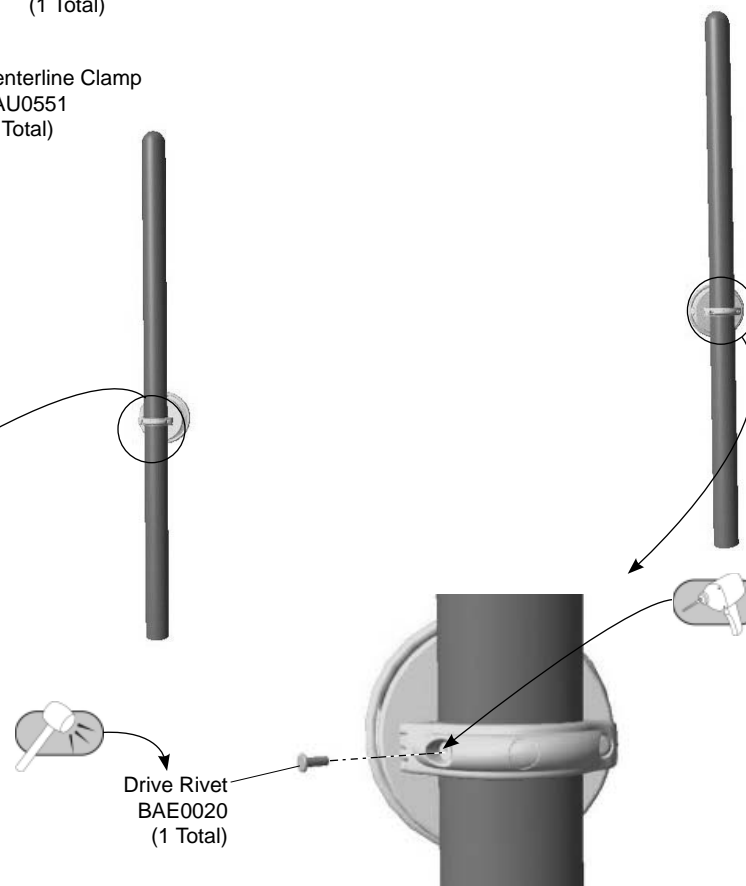
Detail A Step 3

Attach the steering wheel to the backing panel and the clamp.



Detail B Step 4

Attach the steering wheel assembly to the support post.



Detail C Step 6

Secure the clamp to the support post.

Installation Instructions

Bill of Materials

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Reference the master layout drawing for placement of the steering wheel.

Step 3: Attach the steering wheel to the backing panel and the clamp. See **Detail A**. Assemble the steering wheel as shown. Full tighten the connection according to tightening torque specifications (See **Final Details**).

Step 4: Attach the steering wheel assembly to the support post. See **Detail B**. Close the clamp around the support post at the height desired, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 5: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in the clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 7: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

PM4290 - POST MOUNTED STEERING WHEEL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	1
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	1
BFC0986	SHEET - 10.00" x .75" w/HOLE	1
BFC8049	SHEET - 1.39" O.D. x 7/16" I.D. SPACER	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View

Installation Instructions
Playmakers® Model PM4646
Storefront Panel

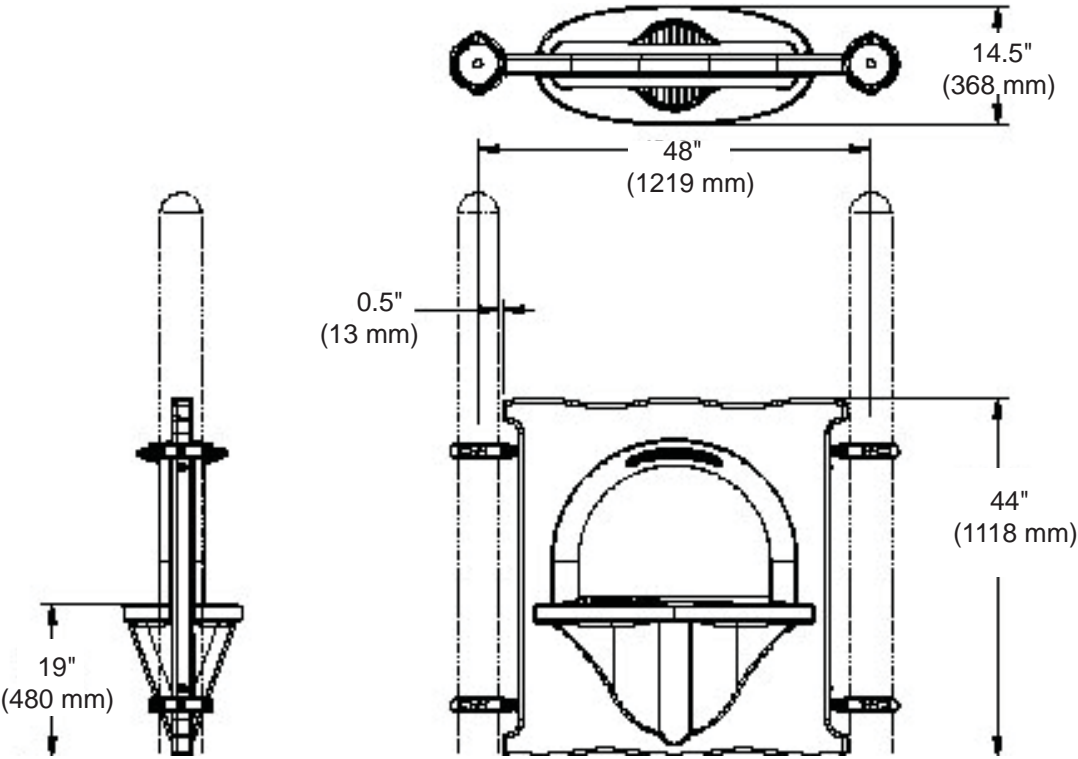
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 44.8 lbs. (20.2 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

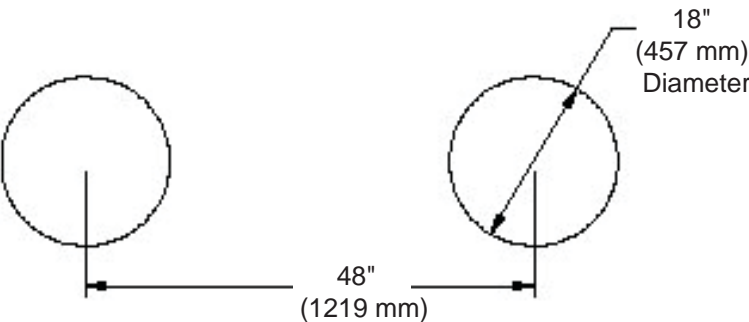
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Drill
	Hammer		Critical Fall Height

Installation Instructions

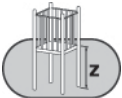
Top View



Footring Diagram



Elevation Views

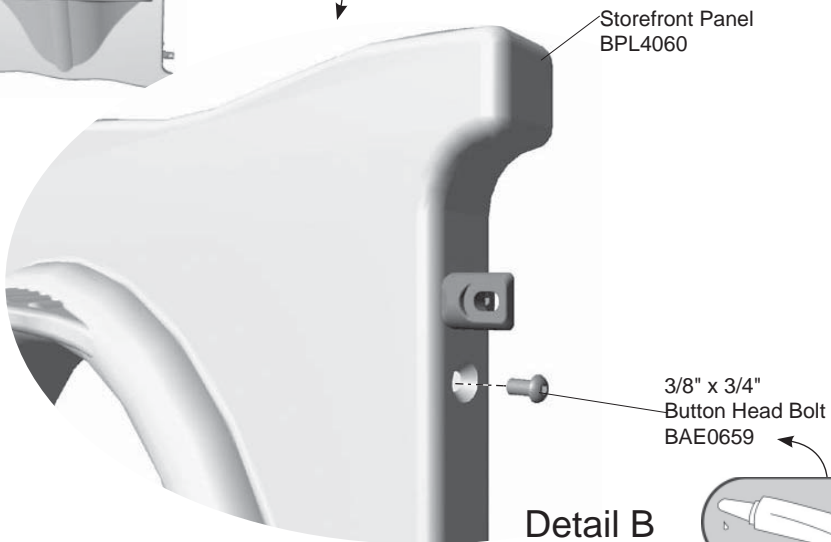
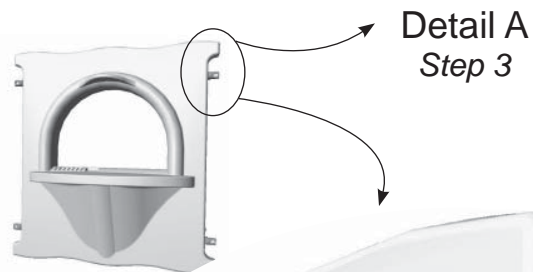
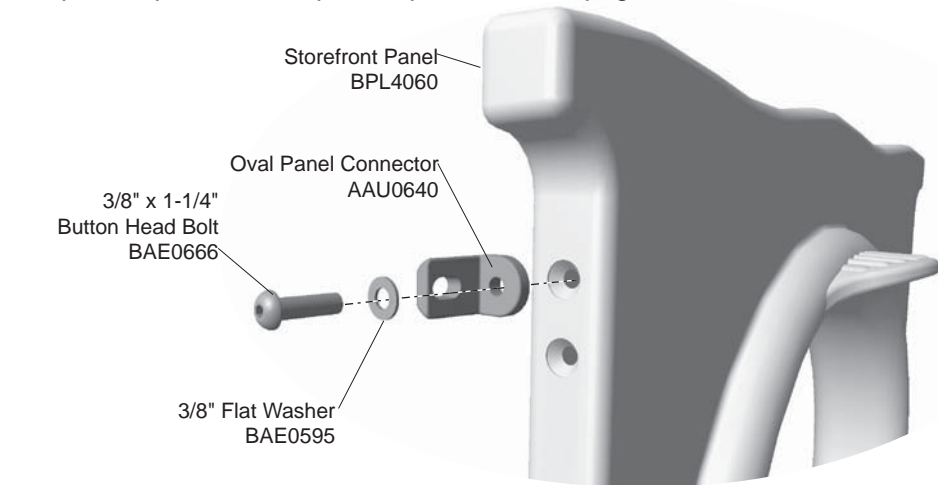


EN: 480 mm

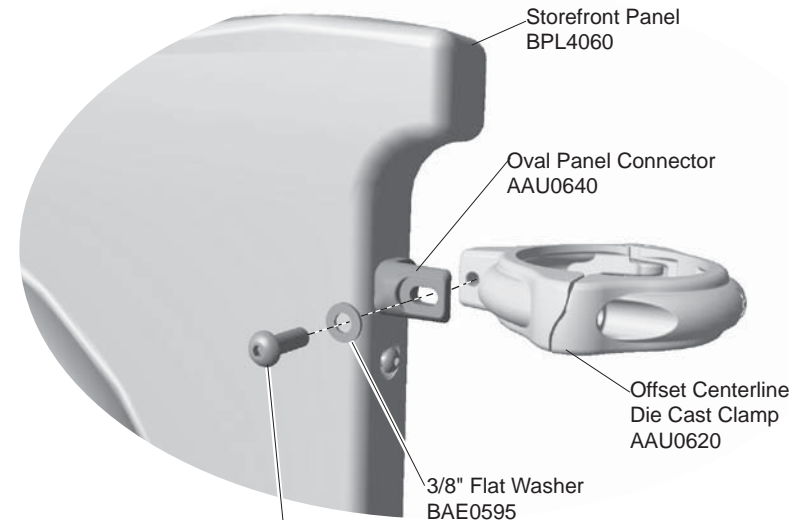
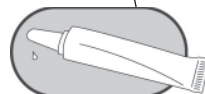


Installation Instructions

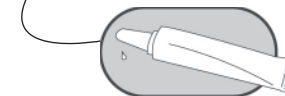
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



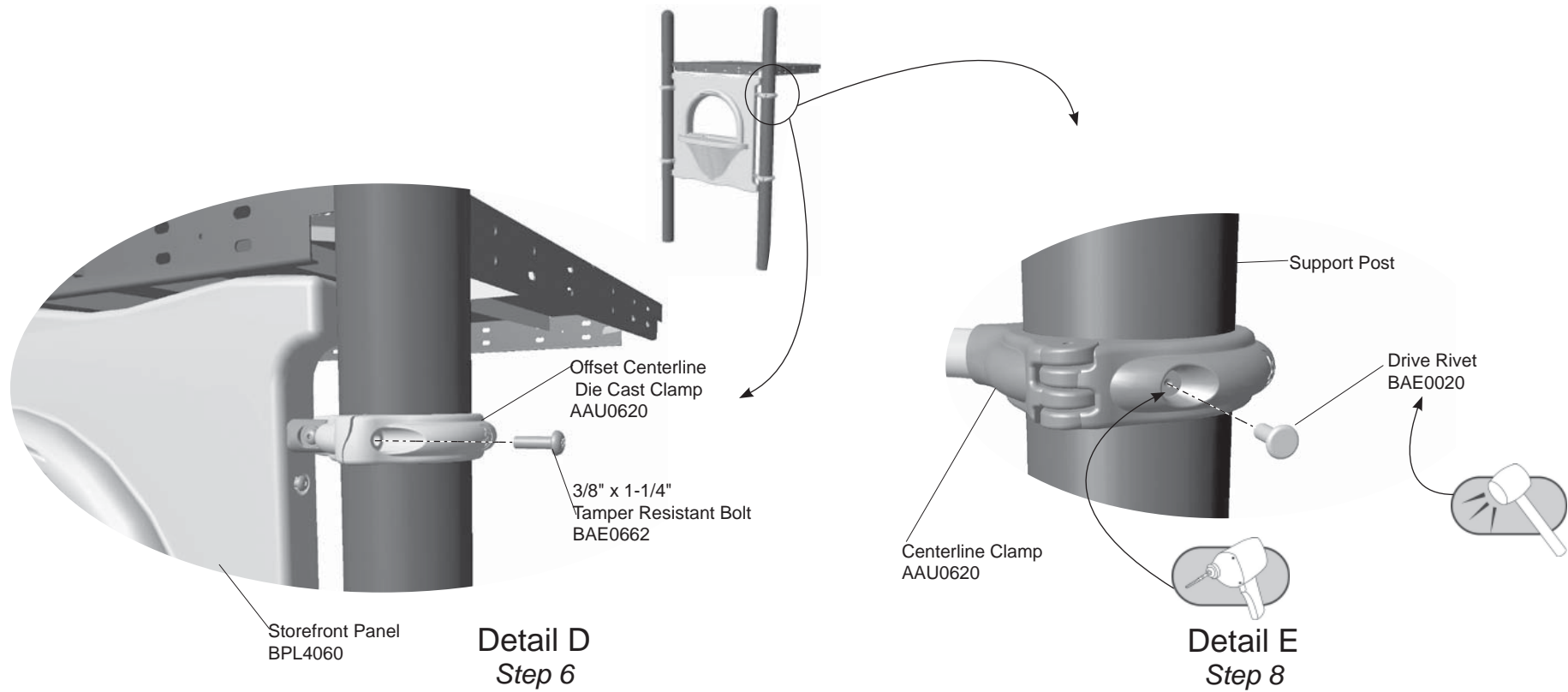
Detail B
Step 4



Detail C
Step 5



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

__Step 3: Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

__Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

__Step 5: Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

__Step 6: Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4646 - STOREFRONT PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1



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Assembly View

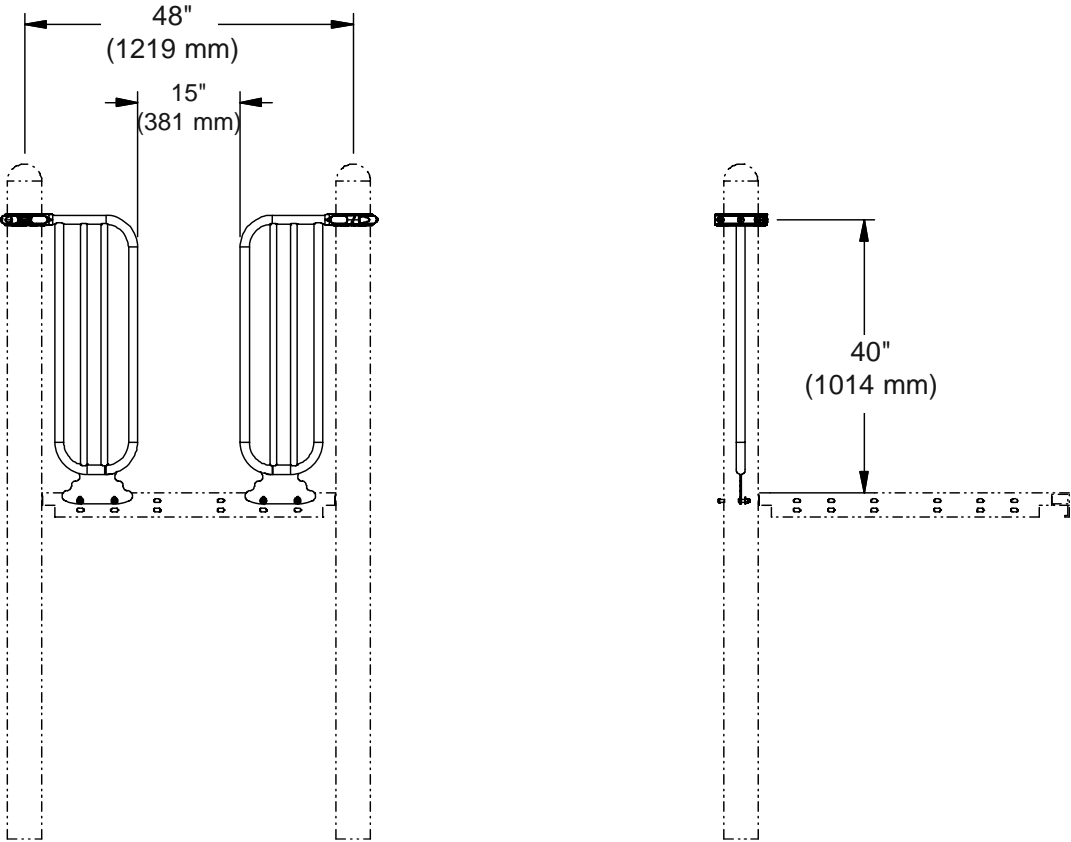
Installation Instructions
Playmakers® Model PM4288
Compliance Access Gate

Installation Preparation

- Recommended Crew: One (1) adult
Installation Time: 0.5 man-hours
Weight: 34 lbs. (15,4 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Drill
	Hammer
	Critical Fall Height

Installation Instructions

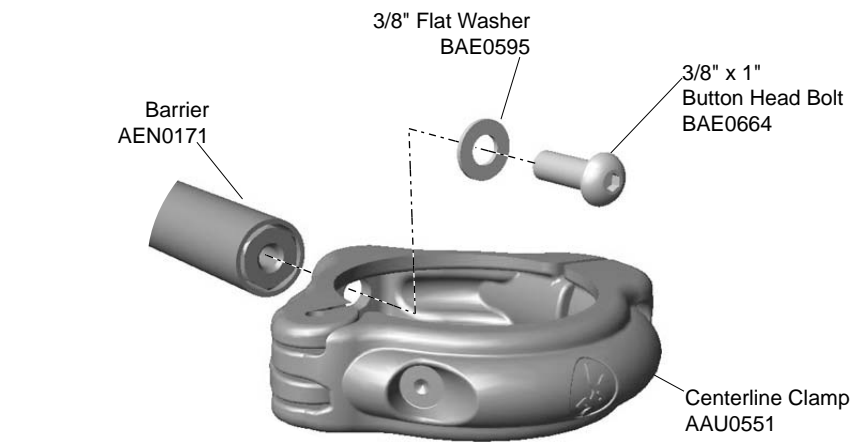


Elevation View

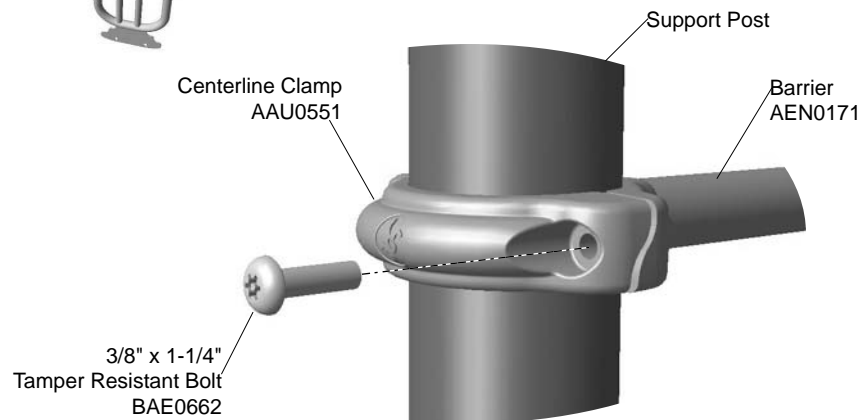


Installation Instructions

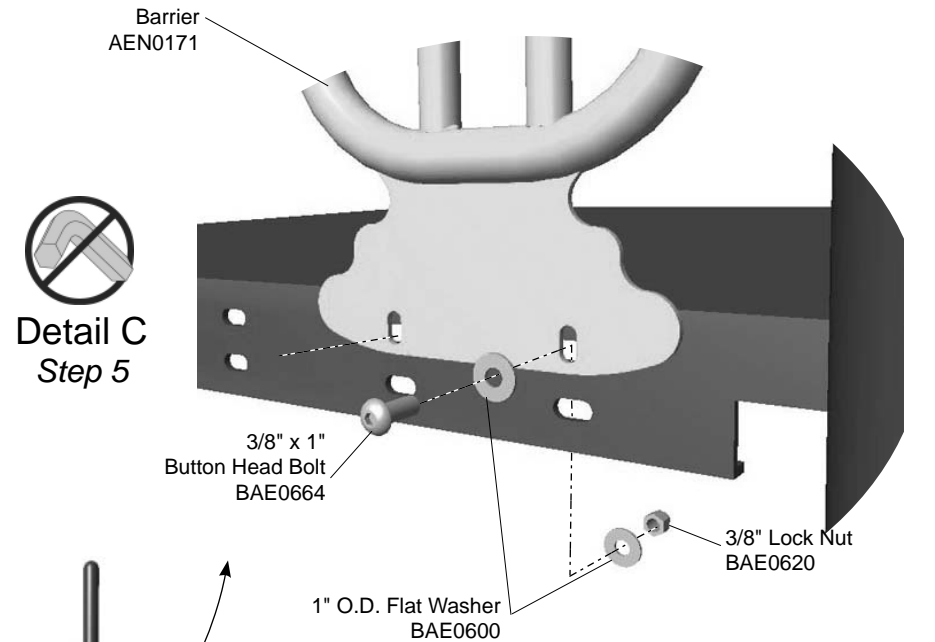
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



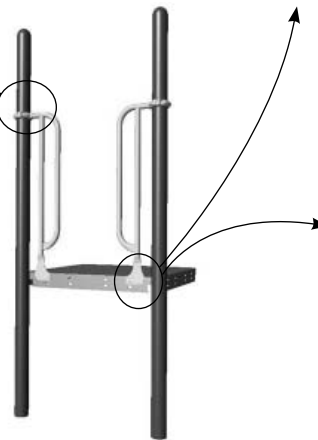
Detail A
Step 3



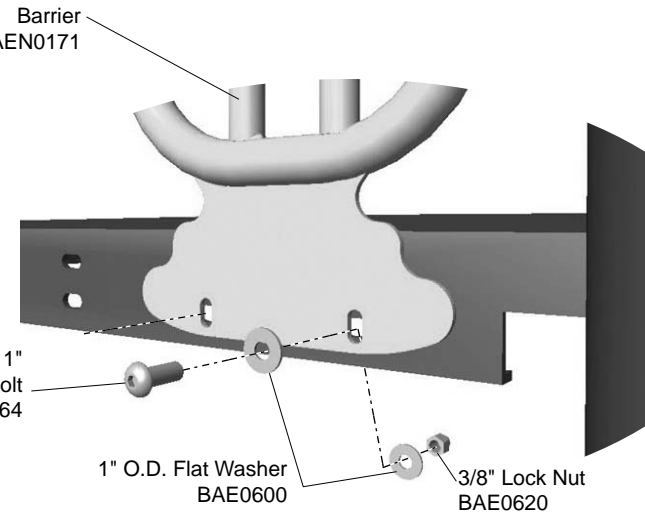
Detail B
Step 4



Detail C
Step 5



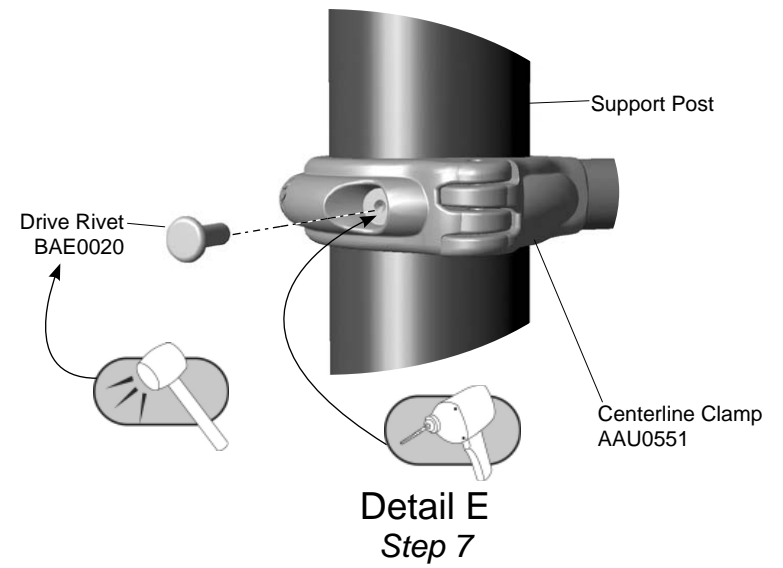
Detail D
Step 5



Installation Instructions



Step 6



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

__Step 3: Attach the clamps to the barrier. See **Detail A**. Select both barriers, both clamps, and the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. Position a clamp against the top of each barrier and attach as shown. Fully tighten the connection.

Attach the clamps to the support posts.

__Step 4: Attach the centerline clamps to the support posts. See **Detail B**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per clamp. Lift each barrier into position against the deck and close each clamp around a support post. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Attach the barrier to the deck.

__Step 5: Attach the barrier to the deck. See **Detail C and D**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. The gate can be connected to either set of deck holes depending on the position of adjacent clamps. Align each gate tab with either the top or bottom hole in the deck and attach as shown.

Note: Both gates should be mounted at the same height.

Final Details.

__Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 7: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

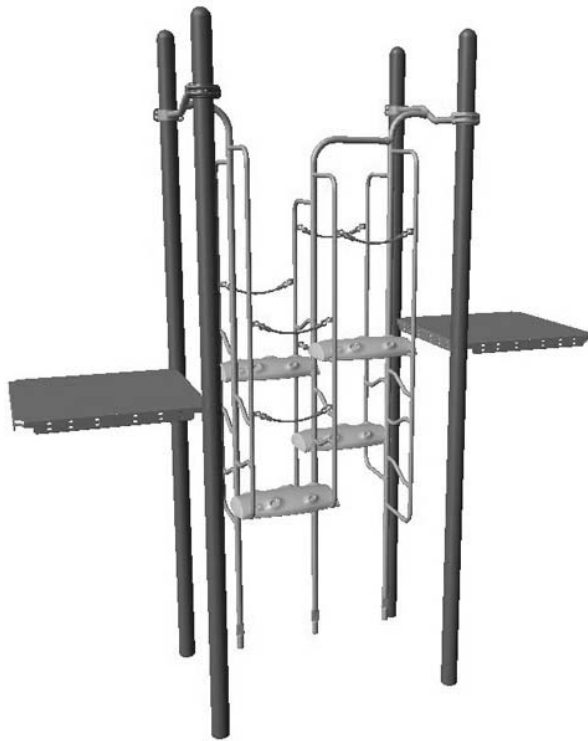
PM4288 - COMPLIANCE ACCESS GATE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0171	BARRIER - 13" x 42-3/16" GATE w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6



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Assembly View (representative model)

Model	Weight
ZZPM6836	314.1 lbs. (142,8 kg)
ZZPM6836S	313.7 lbs. (142,6 kg)

Installation Instructions

Playmakers® Models PM6836 and PM6836S

6 ft. (1829 mm) Vine Climber

In-Ground and Surface Mount

Installation Preparation

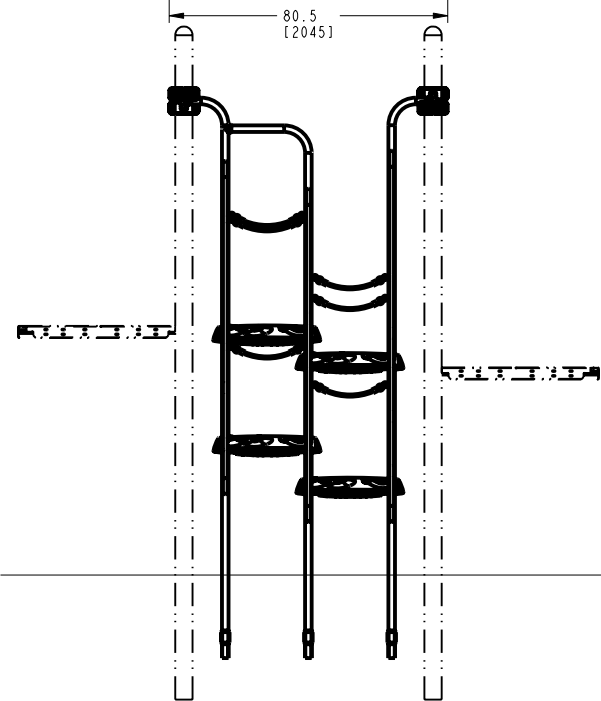
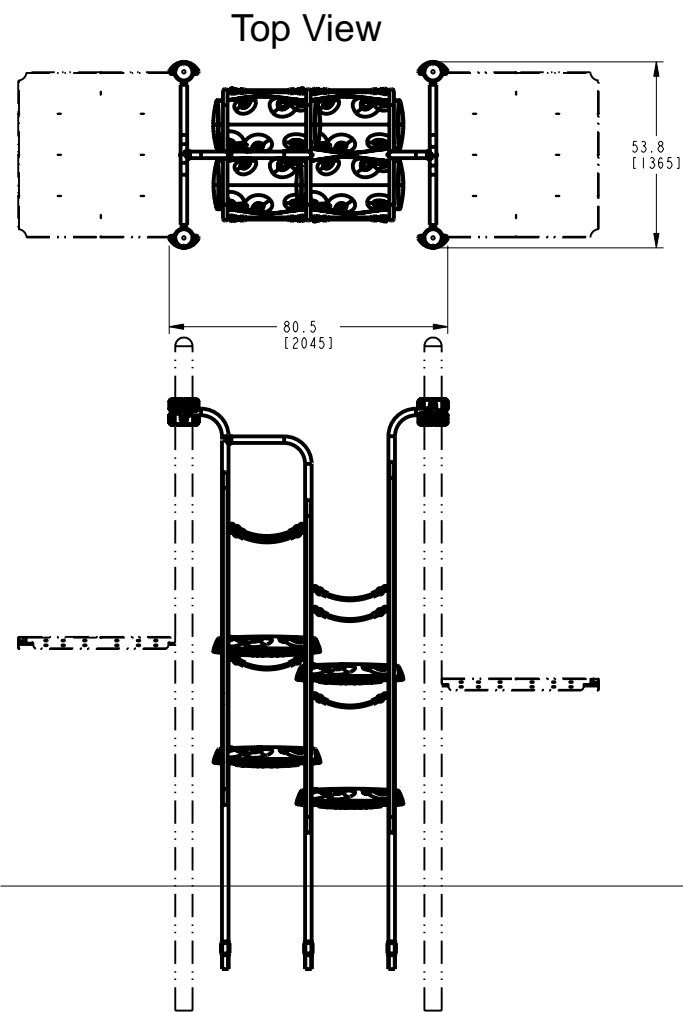
Recommended Crew: Two (2) adults
 Installation Time (in-ground): 3 man-hours
 Installation Time (surface mount): 1.5 man-hours
 Weight: (refer to table)
 Concrete Required (in-ground only): 0.09 cubic yard (0,07 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

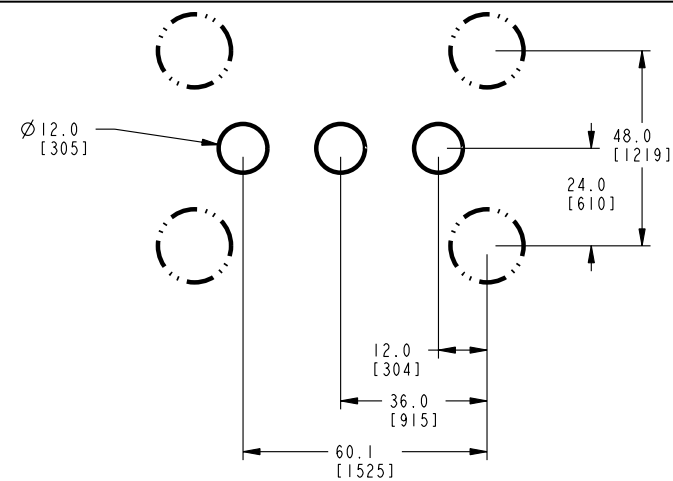
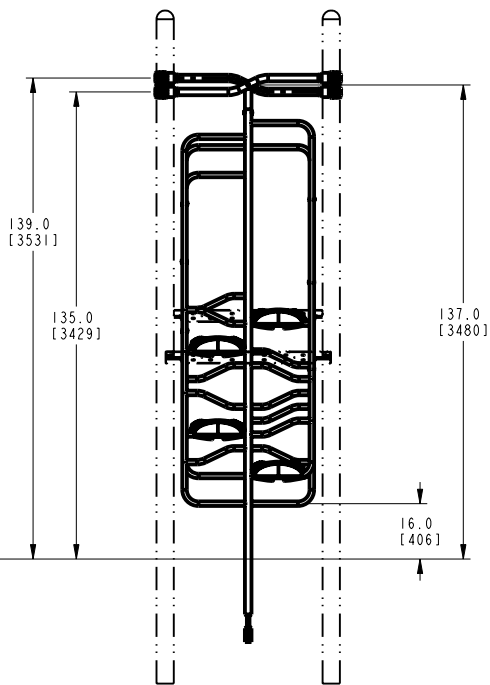
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

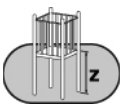
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM6836



Footing Diagram
Both Models



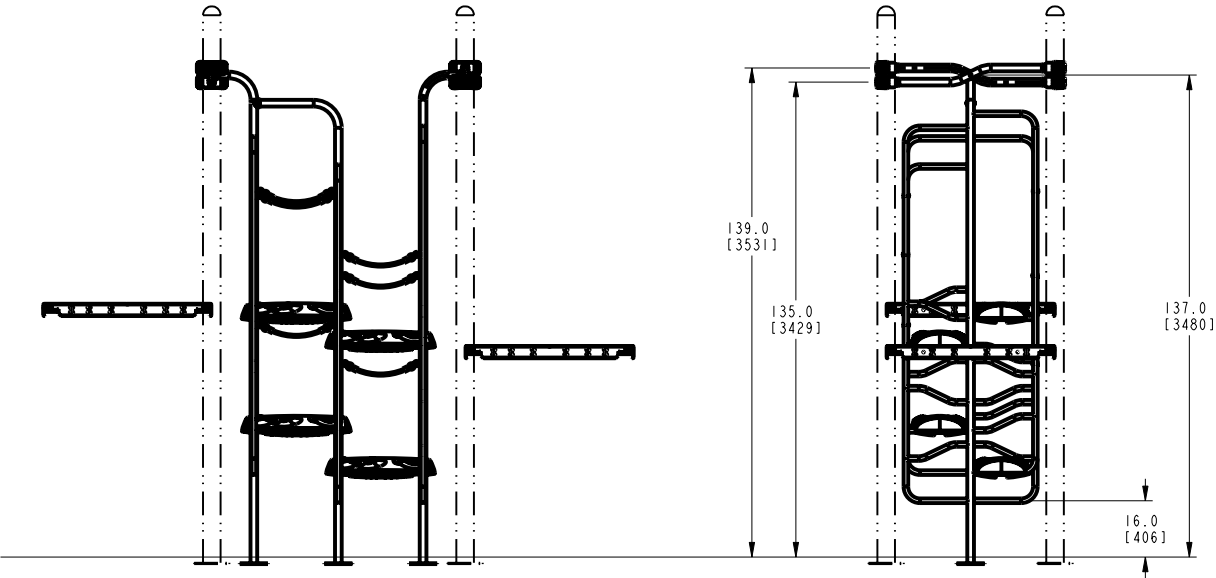
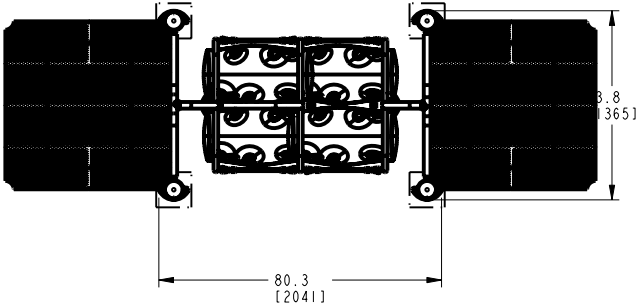
EN: 3300 mm



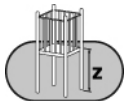
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Elevation Views
PM6836S

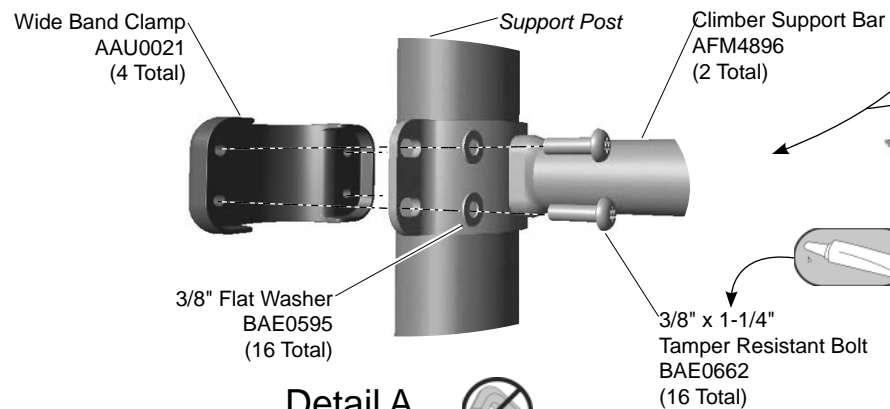


EN: 3300 mm



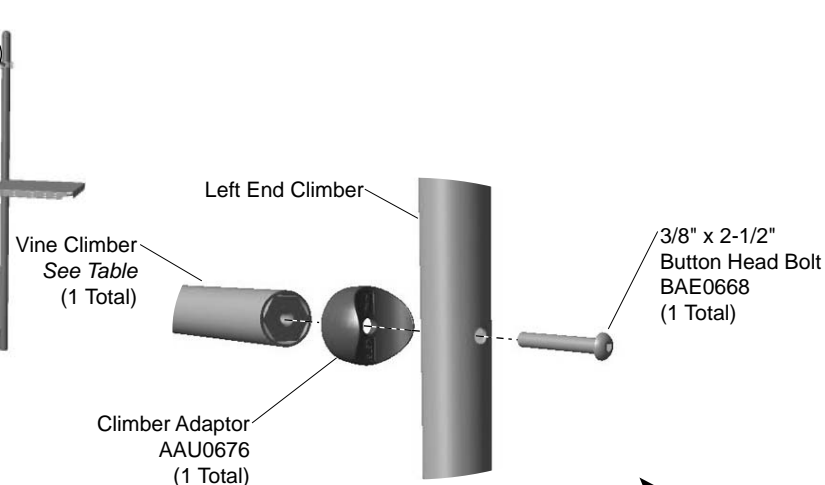
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



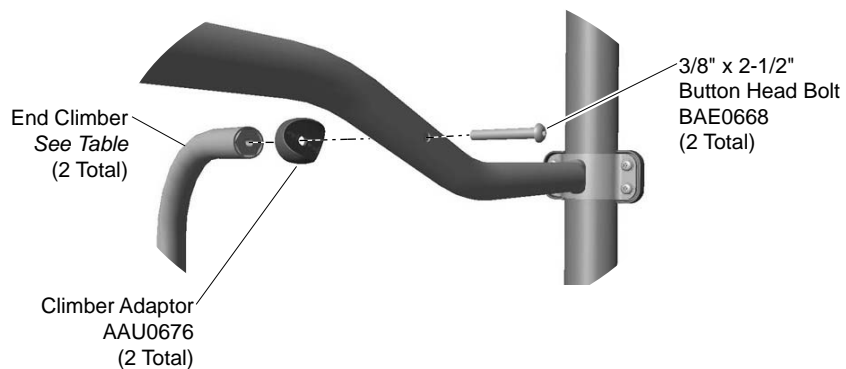
Detail A
Step 4

Attach the climber support bar to the support posts.



Detail C
Step 6

Attach the vine climber to the left end climber.

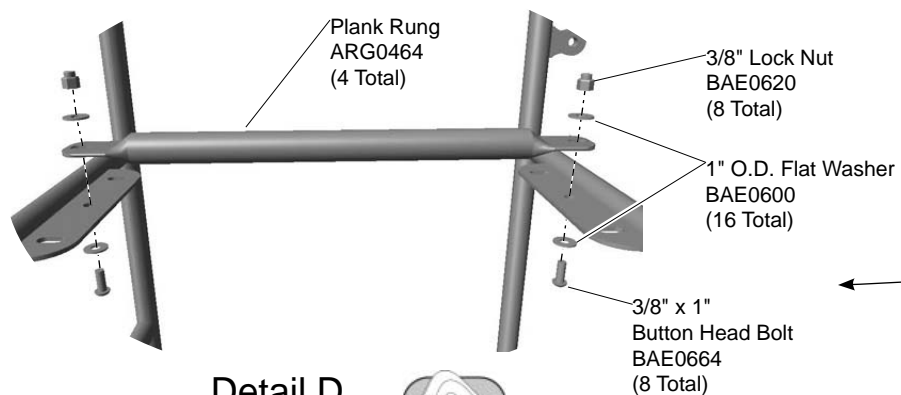


Detail B
Step 5

Attach the left and the right end climbers to the climber support bars.

Model	Left End Climber Part Number	Right End Climber Part Number	6 Ft. Vine Climber
ZZPM6836	ACL0292	ACL0293	ACL0294
ZZPM6836S	ACL0308	ACL0309	ACL0310

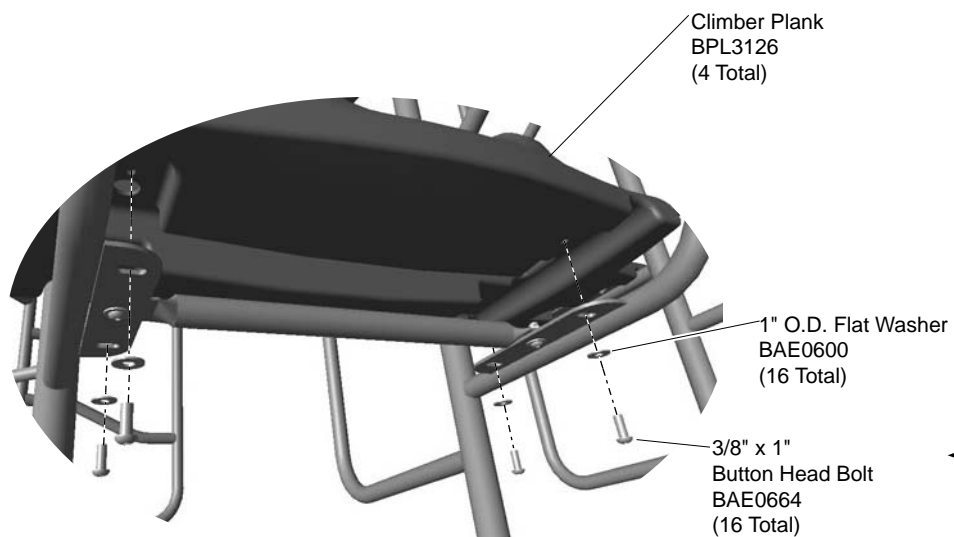
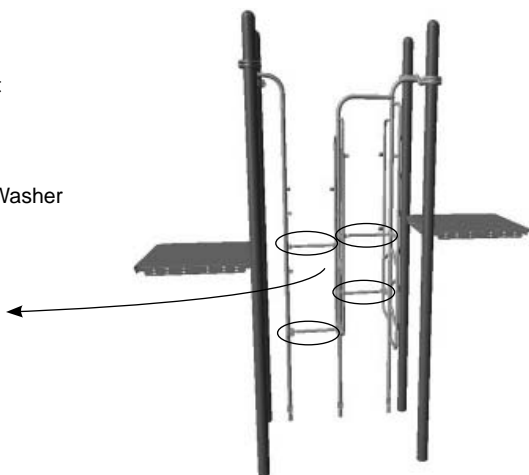
Installation Instructions



Detail D

Step 7

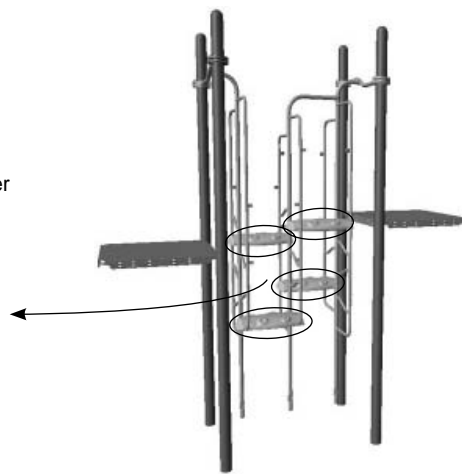
Attach the plank rungs to the climbers.



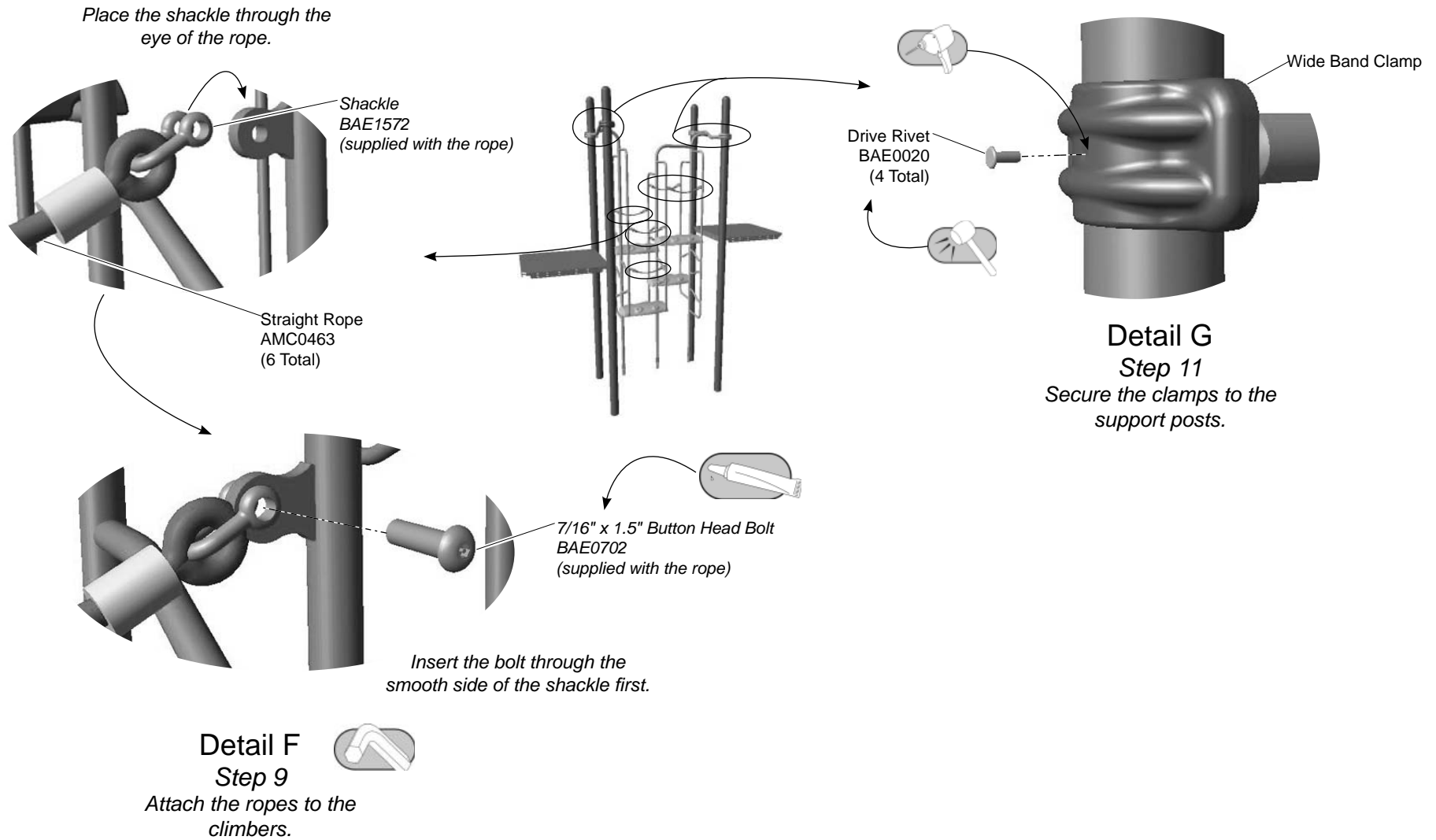
Detail E

Step 8

Attach the planks to the plank rungs.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Component** or **Surface Mount Footing Details** in the *Challenger Guidelines*.

Step 4: Attach the climber support bars to the support posts. See **Detail A**. Position the climber support bars between the support posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 5: Attach the left and the right end climbers to the climber support bars. See **Detail B**. Position a climber adaptor against the top of each end climber and then against the climber support bar, and attach as shown. Coped end of the adaptor must be flush against the support bar.

Step 6: Attach the 6 ft. vine climber to the **left** end climber. See **Detail C**. Position the climber adaptor against the top of the vine climber and then against the end climber, and attach as shown. Coped end of the adaptor must be flush against the end climber.

Step 7: Attach the plank rungs to the mounting brackets on the climbers. See **Detail D**. Position the rungs between the climbers and on top of the brackets. Attach as shown. Fully tighten the connections.

Step 8: Attach the planks to the plank rungs. See **Detail E**. Position each plank onto a rung and attach as shown. Fully tighten the connections.

Step 9: Attach the ropes to the climbers. See **Detail F**. Position each rope between the mounting tabs on two climbers, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 11: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM6836 - 6 ft. (1829 mm) VINE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
AAU0676	CASTING - GEO CLIMBER ADAPTER	3
ACL0292	CLIMBER - 72" DECK TO DECK VINE END LEFT	1
ACL0293	CLIMBER - 72" VINE DECK TO DECK END RIGHT	1
ACL0294	CLIMBER - 72" VINE DECK TO DECK CENTER	1
AFM4896	FAB METAL - 7.01" x 6.31" x 35.74"	2
AMC0463	21.50" STRAIGHT ROPE w/2 SHACKLES	6
ARG0464	RUNG - 1.315" x 21.88" w/FLAT ENDS	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPL3126	PLANK - VINE CLIMBER	4

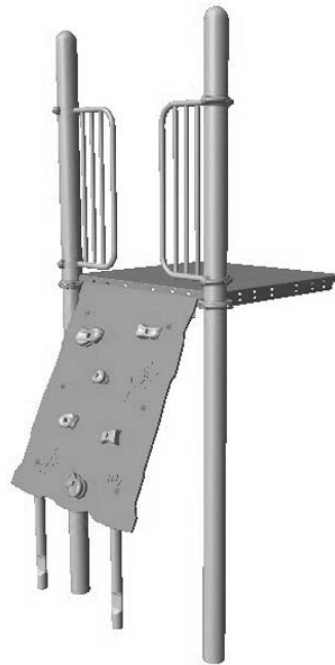
PM6836S - 6 ft. (1829 mm) VINE CLIMBER SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
AAU0676	CASTING - GEO CLIMBER ADAPTER	3
ACL0308	CLIMBER - 72" DECK TO DECK VINE END LEFT	1
ACL0309	CLIMBER - 72" VINE DECK TO DECK END RIGHT	1
ACL0310	CLIMBER - 72" VINE DECK TO DECK CENTER	1
AFM4896	FAB METAL - 7.01" x 6.31" x 35.74"	2
AMC0463	21.50" STRAIGHT ROPE w/2 SHACKLES	6
ARG0464	RUNG - 1.315" x 21.88" w/FLAT ENDS	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPL3126	PLANK - VINE CLIMBER	4



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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM6979 &
PM6986-PM6989

Inclined Cliff Hanger

48" (1219 mm), 60" (1524 mm),
72" (1829 mm), 84" (2134 mm)
& 96" (2438 mm) Deck Heights

Installation Preparation

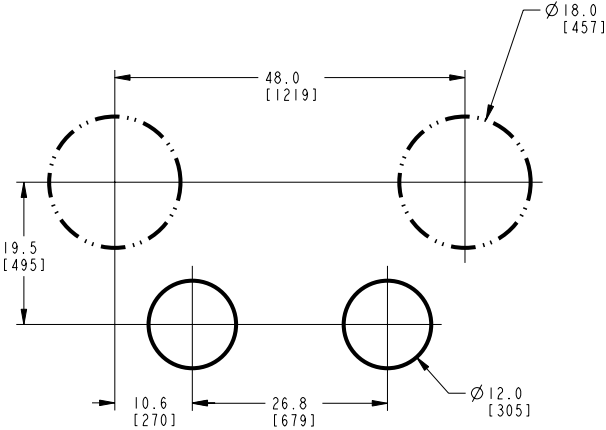
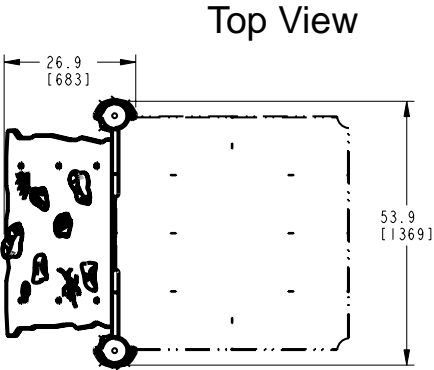
Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Concrete Required: 0.06 cubic yard (0,05 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY

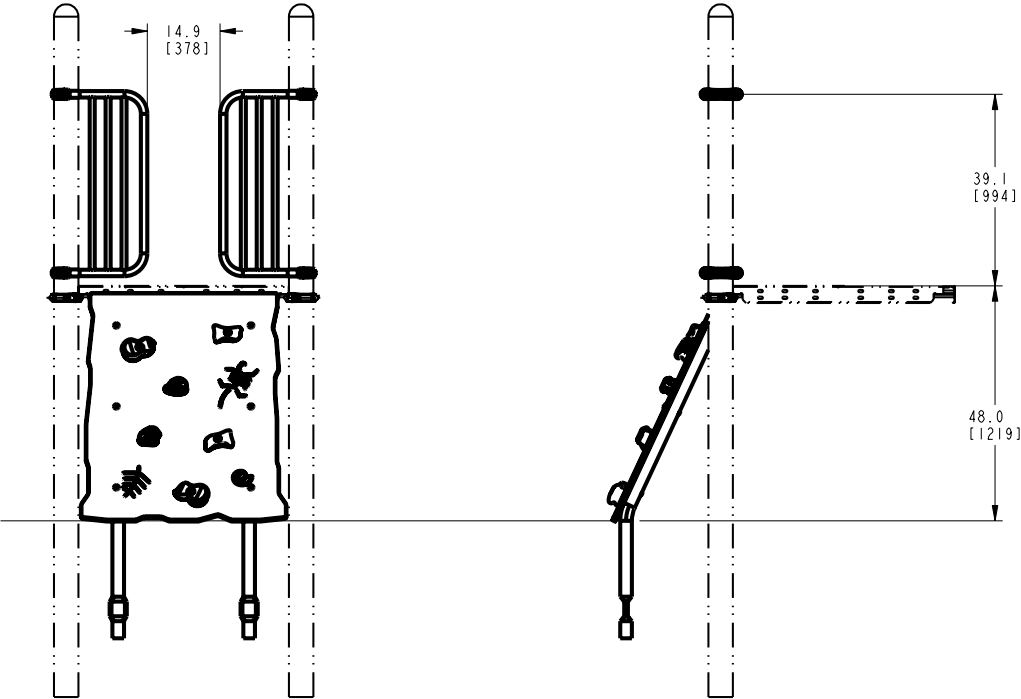
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

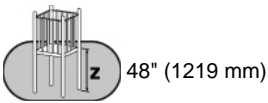
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

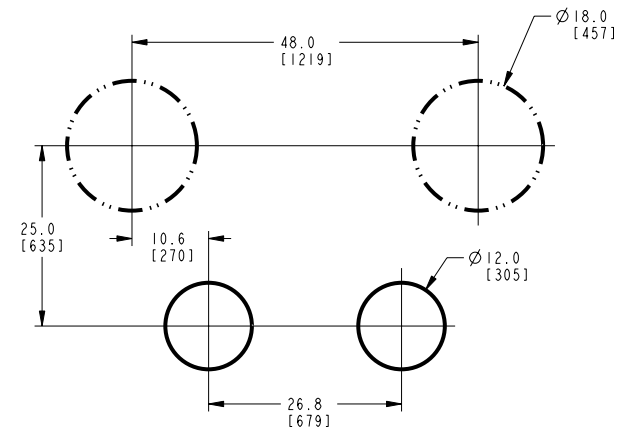
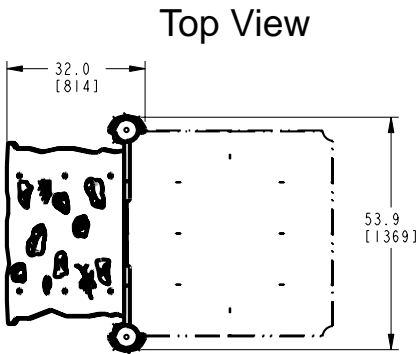


Elevation Views - PM6987 - 48" (1220 mm) Deck

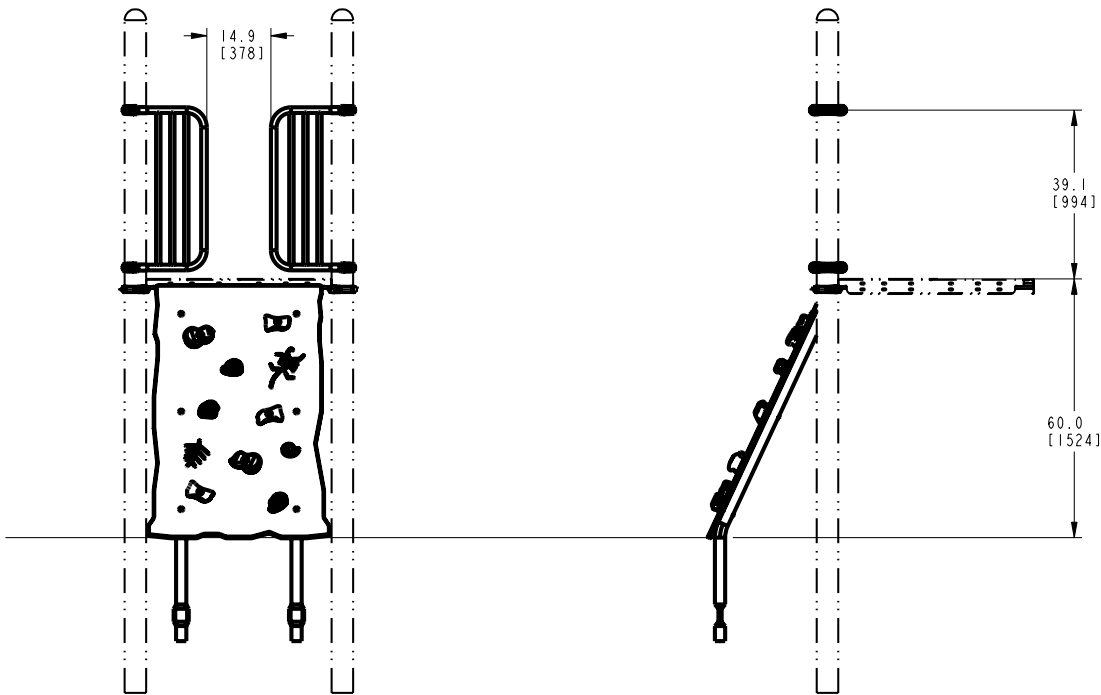


Installation Instructions

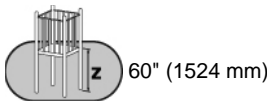
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

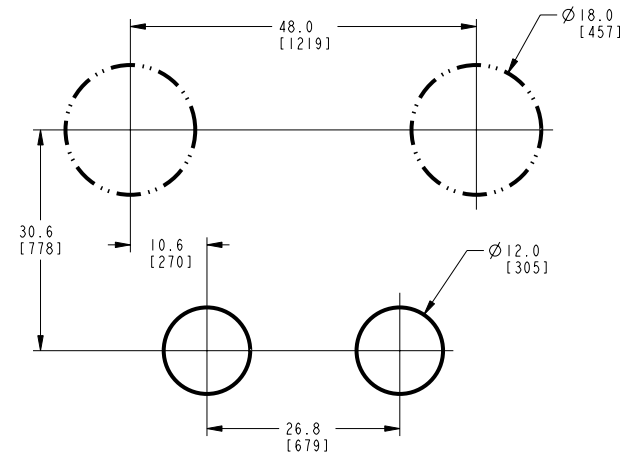
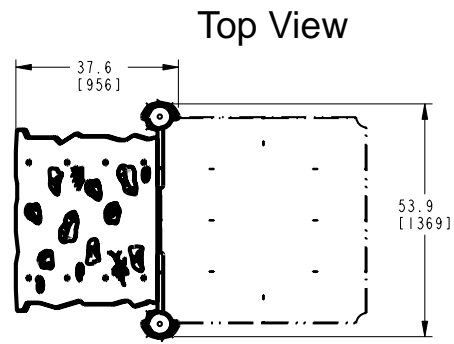


Elevation Views - PM6988 - 60" (1524 mm) Deck

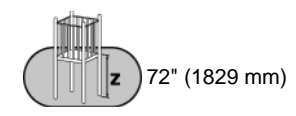
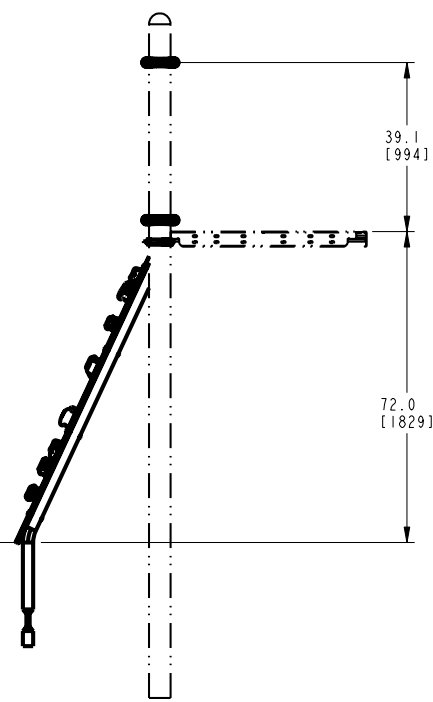
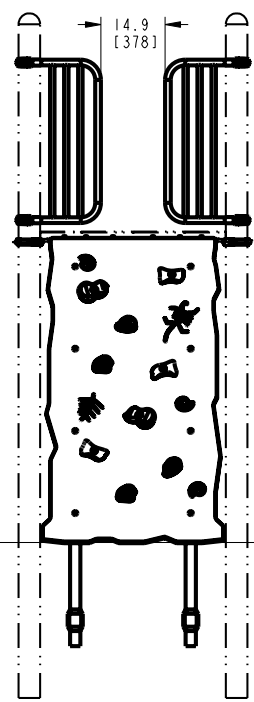


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



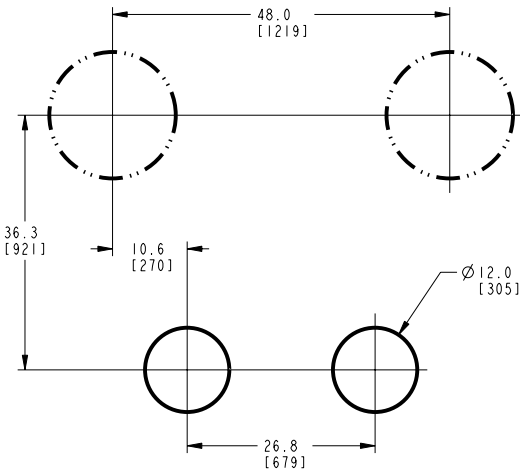
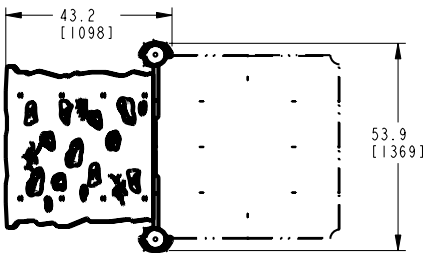
Elevation Views - PM6989 - 72" (1829 mm) Deck



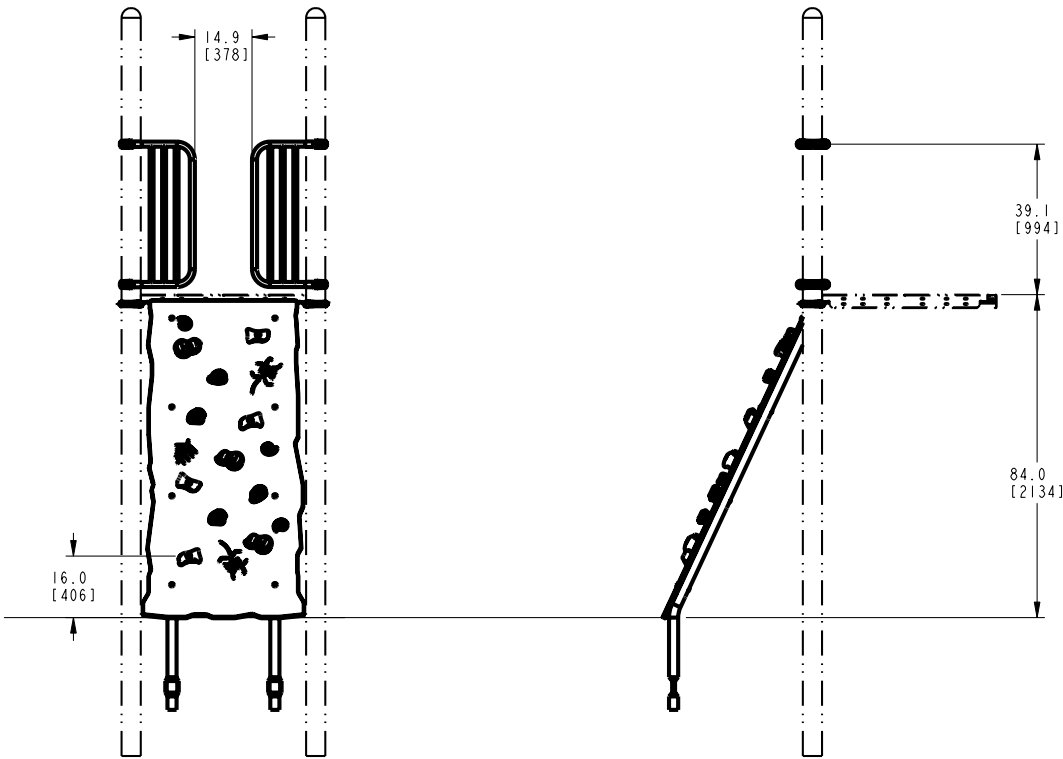
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

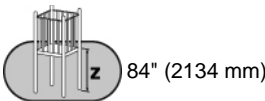
Top View



Footing Diagram



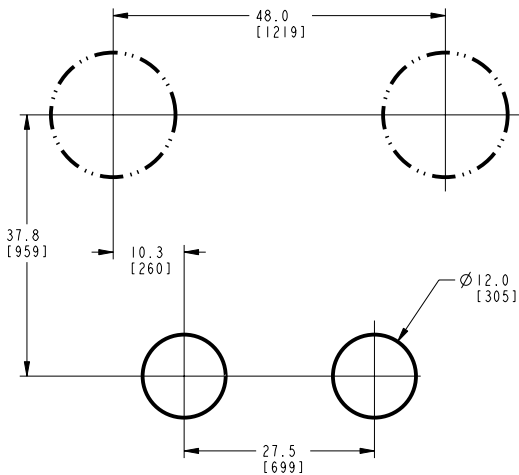
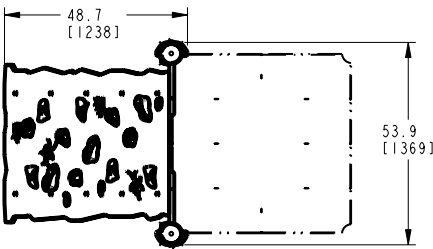
Elevation Views - PM6986 - 84" (2134 mm) Deck



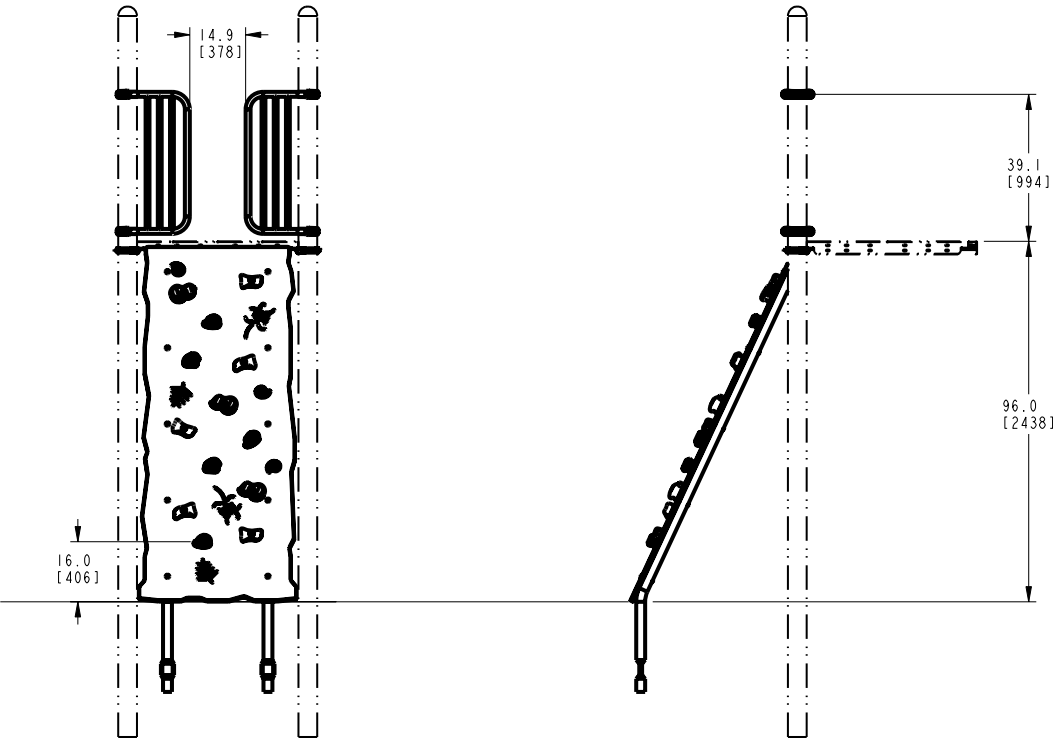
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

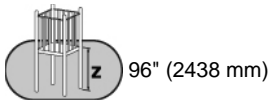
Top View



Footing Diagram

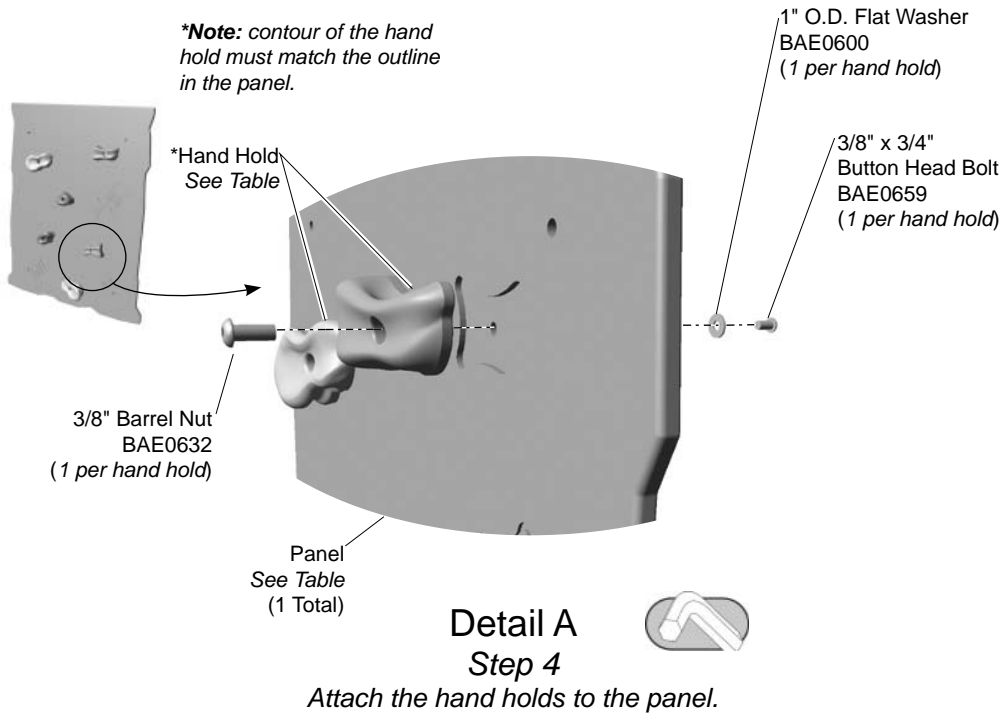


Elevation Views - PM6979 - 96" (2438 mm) Deck

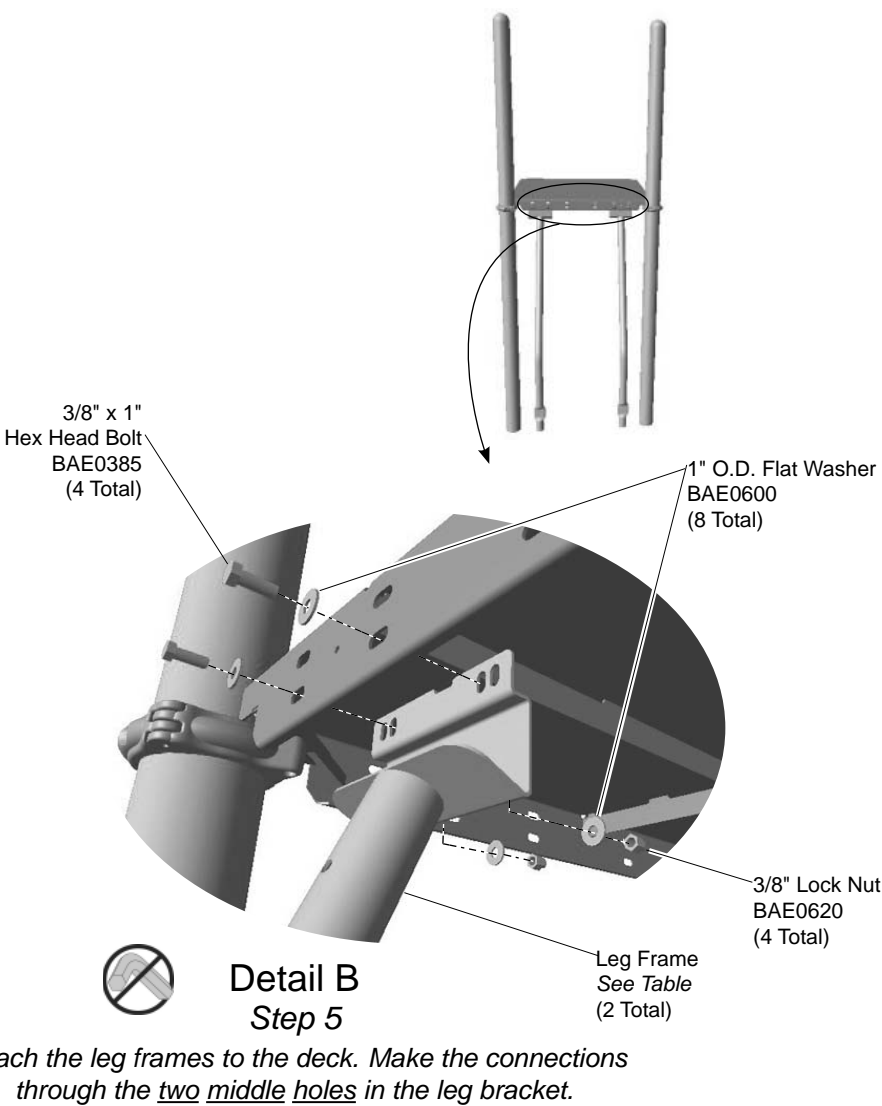


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



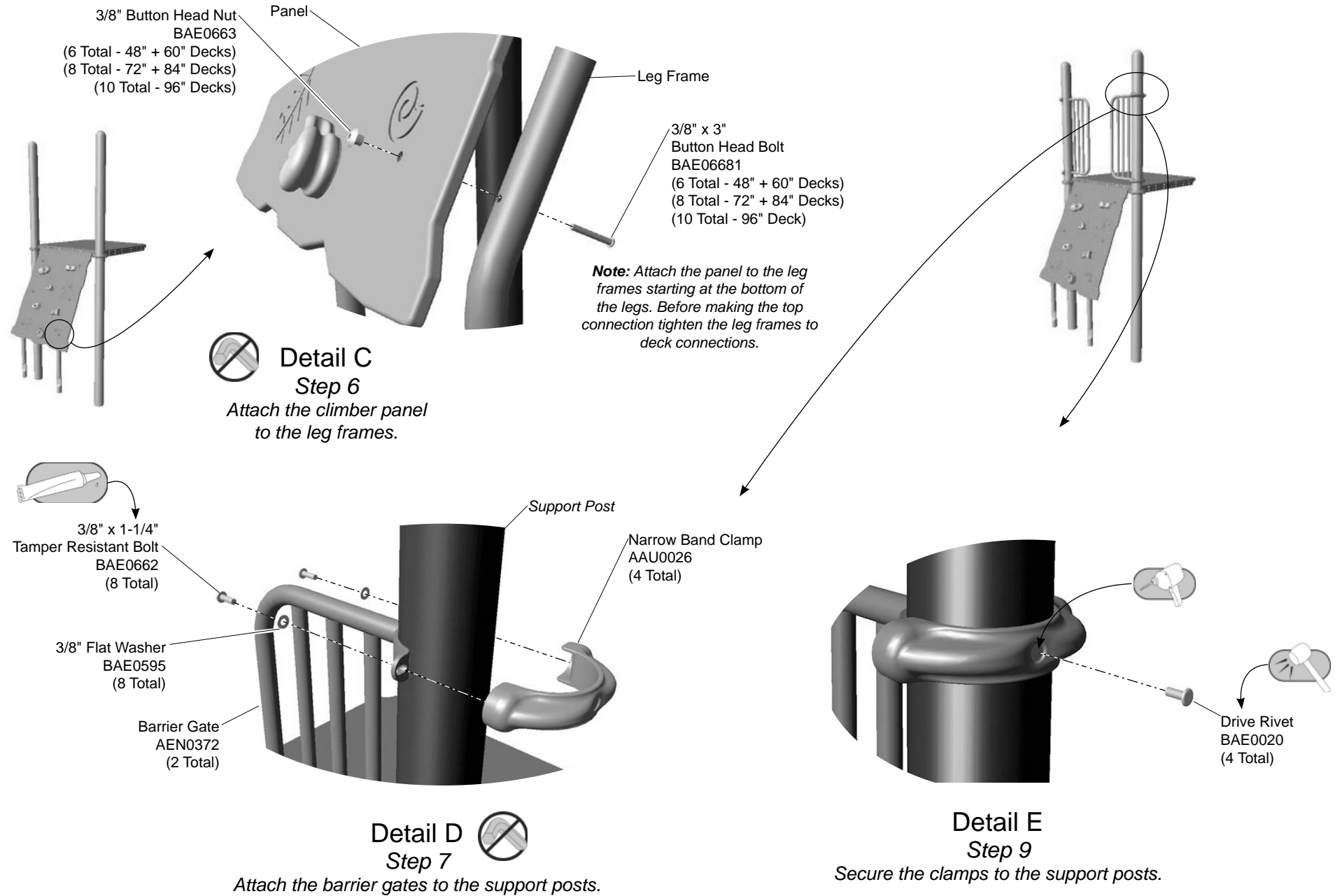
Model	PM6987	PM6988	PM6989	PM6986	PM6979
No. of Small Hand Holds (AAU0067)	2	3	4	4	5
No. of Medium Hand Holds (AAU0068)	2	3	3	4	5
No. of Large Hand Holds (AAU0069)	2	2	2	3	3
Panel Number	BFC3263	BFC3265	BFC3267	BFC3269	BFC3271



Model	PM6987	PM6988	PM6989	PM6986	PM6979
Leg Frame Part Number	AFR0956	AFR0958	AFR0960	AFR0962	AFR0964



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the **Guidelines** at the beginning of this instruction book.

Step 4: Attach the hand holds to the panel. See **Detail A**. Position each hand hold against a corresponding cutout in the panel and attach as shown. Fully tighten the hardware according to tightening torque specifications to pull the hand hold into the panel.

Torque Specifications:

Bolts and Nuts: Snug tighten and then tighten an additional one half turn.

Step 5: Attach the leg frames to the deck. See **Detail B**. Place the frame legs in their footings with the mounting bracket under the deck and align the lower holes. Use the slots indicated on each bracket and attach as shown.

Step 6: Attach the panel to the leg frames. See **Detail C**. Place the panel with the wider part at the bottom and align the side holes with the holes in the leg frames. Attach as shown.

Note: Attach the panel to the leg frames starting at the *bottom* of the legs. *Before making the top connection tighten the leg frames to deck connections.*

Step 7: Attach the barrier gates to the support posts. See **Detail D**. Place each gate against the post, and align a clamp with each gate band. Apply a drop of loctite to the bolts, and attach as shown. Leave the connections loose. Both gates should be mounted at the same height directly over the deck. The bottom of the gates must be less than 3.5" (89 mm) from the deck surface to prevent any entrapment issues.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and Nuts: Snug tighten and then tighten an additional one half turn.

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 10: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM6987 - 48" (1219 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	2
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0956	FRAME - 2.38" O.D. x 70.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC3263	SHEET - .75" x 42.00" x 51.25"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6988 - 60" (1524 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	3
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0958	FRAME - 2.38" O.D. x 82.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC3265	SHEET - .75" X 42.00" x 64.50"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6989 - 72" (1829 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	4
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0960	FRAME - 2.38" O.D. x 94.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	9
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	9
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC3267	SHEET - .75" x 42.00" x 77.75"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6986 - 84" (2134 mm) INCLINED CLIFF HANGER

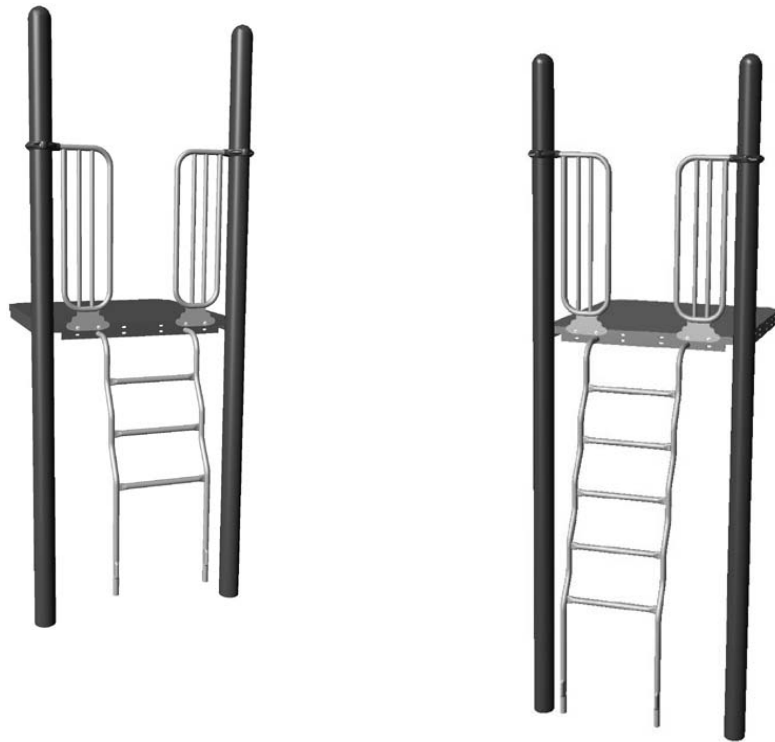
PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	4
AAU0068	HANDLE - MEDIUM	4
AAU0069	HANDLE - LARGE	3
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0962	FRAME - 2.38" O.D. x 106.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	19
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	11
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	11
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC3269	SHEET - .75" x 42.00" x 91.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6979 - 96" (2438 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	5
AAU0068	HANDLE - MEDIUM	5
AAU0069	HANDLE - LARGE	3
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0964	FRAME - 2.38" O.D. x 118.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	21
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	13
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	13
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	10
BFC3271	SHEET - .75" x 42.00" x 104.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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Assembly View (representative models)

	PM8289	PM8290	PM8300	PM8310
Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Weight	52 lbs 23.6 kilos	59.1 lbs. 26.9 kilos	63.4 lbs. 28.8 kilos	69 lbs. 31.4 kilos

Installation Instructions

Playworld Systems

Models PM8289, PM8290, PM8300, PM8310

Ribbon Climber

36 in. (914 mm), 48 in. (1219 mm),
60 in. (1524 mm), 72 in. (1829 mm)

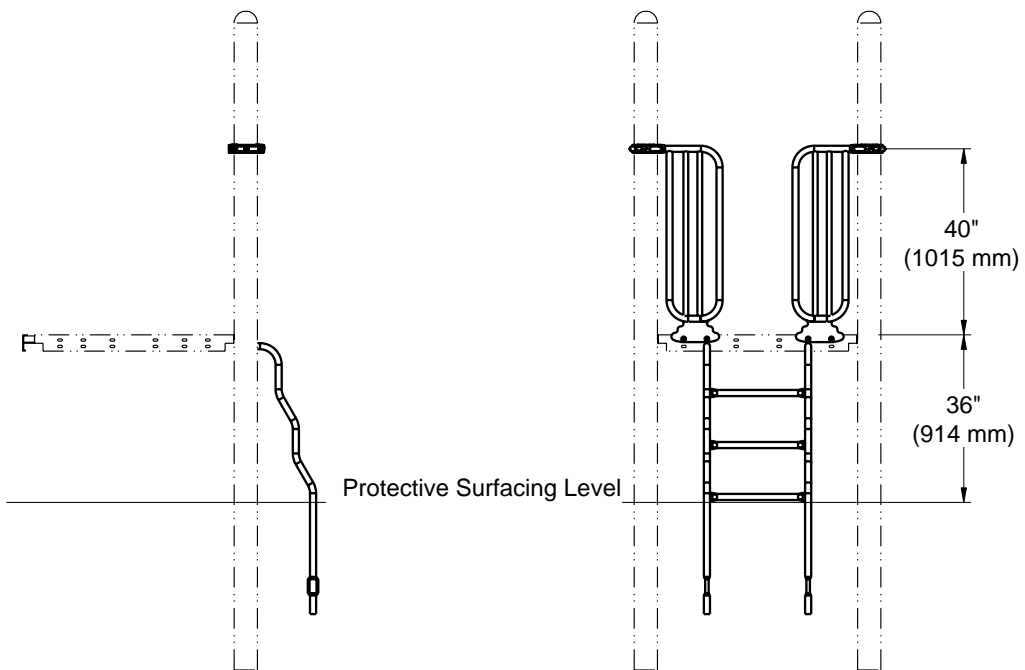
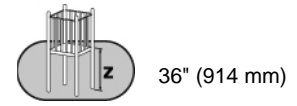
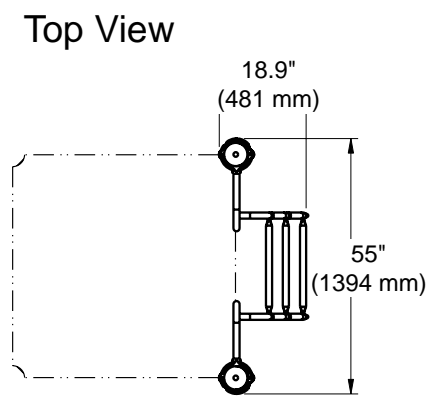
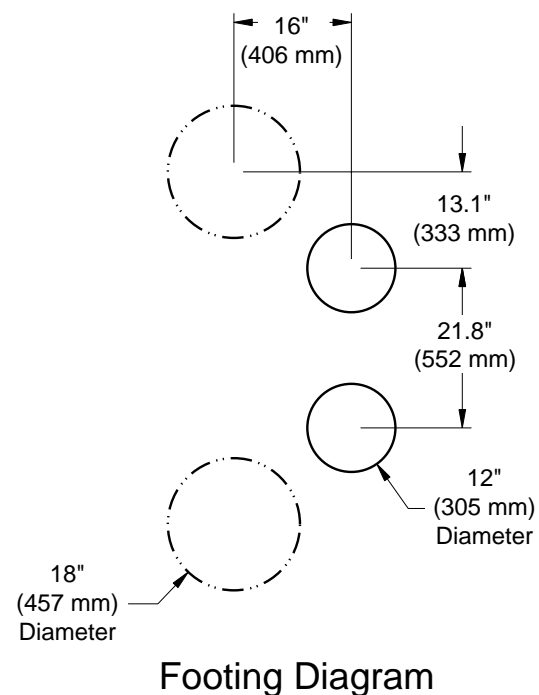
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1.5 hours
 Weight: See table at lower left
 Concrete Required: 0.06 cubic yard (0,5 cubic meters)
 Use Zone: Refer to Use Zone on Master Drawing
 User Group Age (years): 36"-48": ASTM/CSA: 2-12, EN: 2-14
 60"-72": ASTM/CSA: 5-12, EN: 6-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

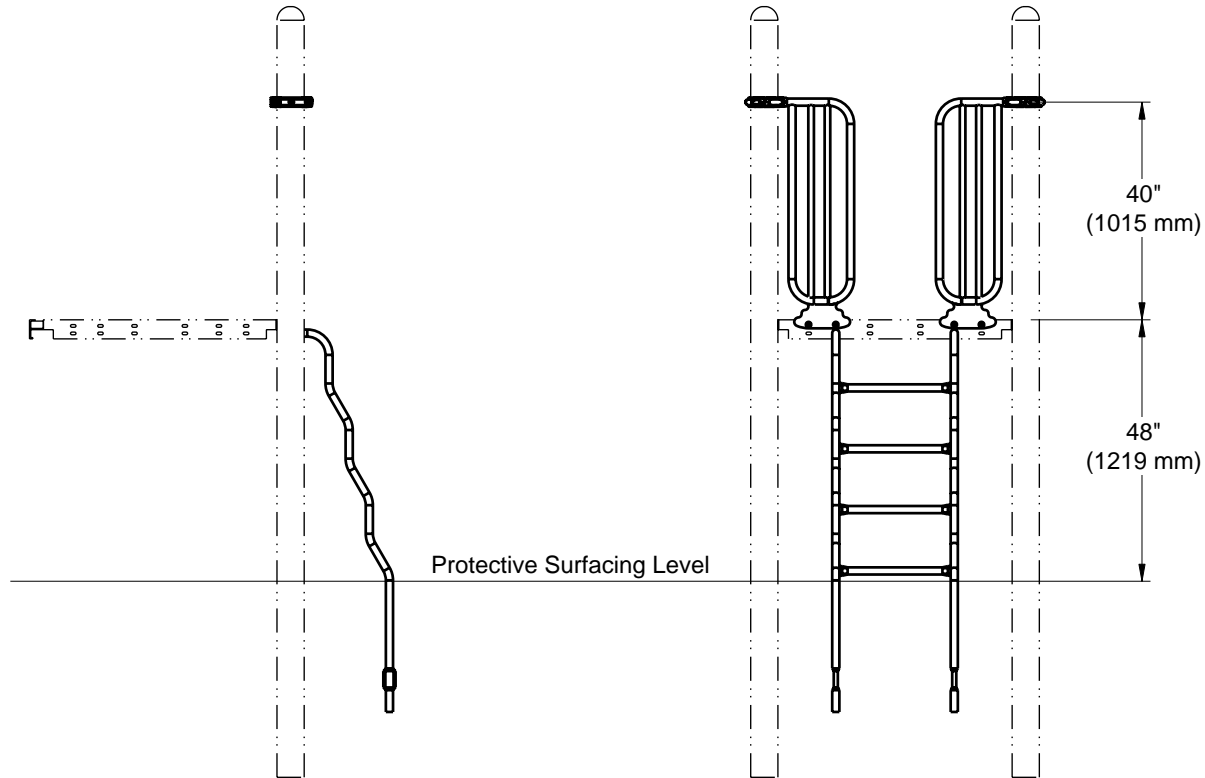
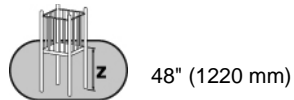
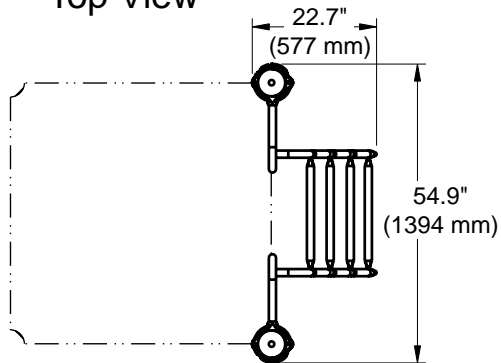


Elevation View
36" (914 mm) Deck

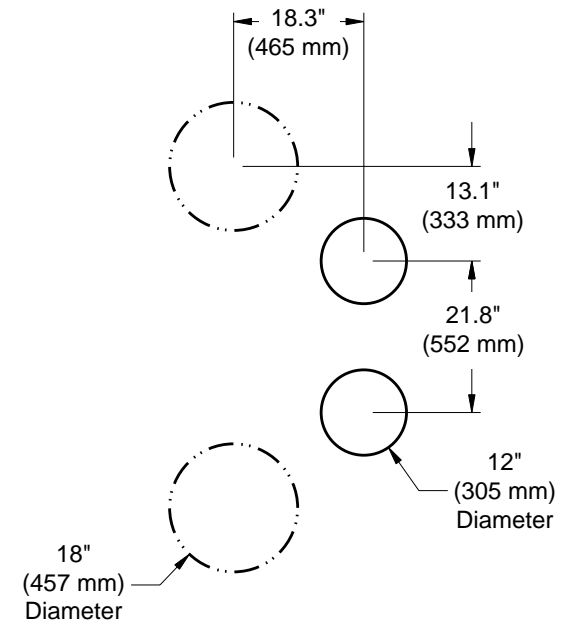


Installation Instructions

Top View



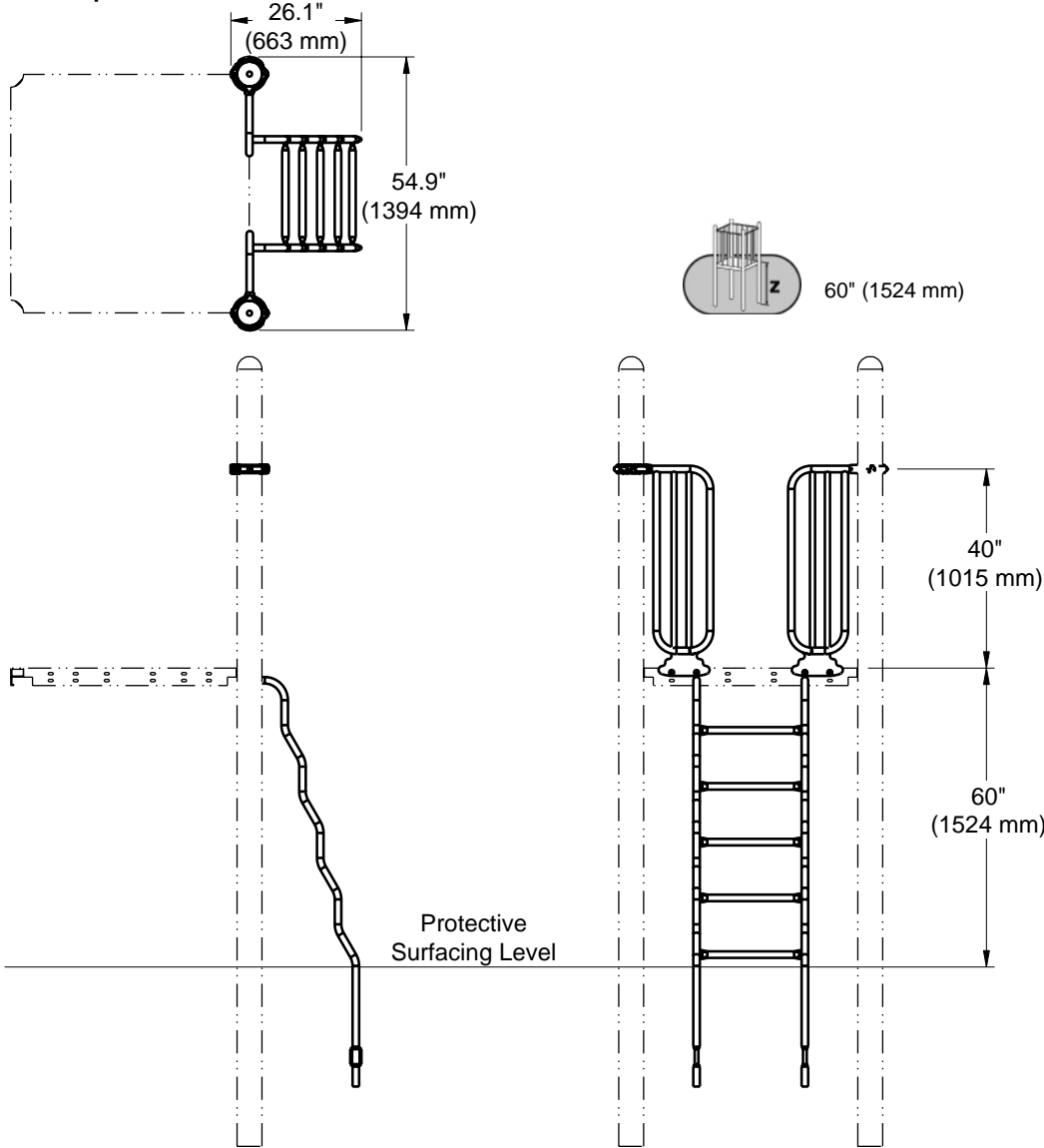
Elevation View
48" (1219 mm) Deck



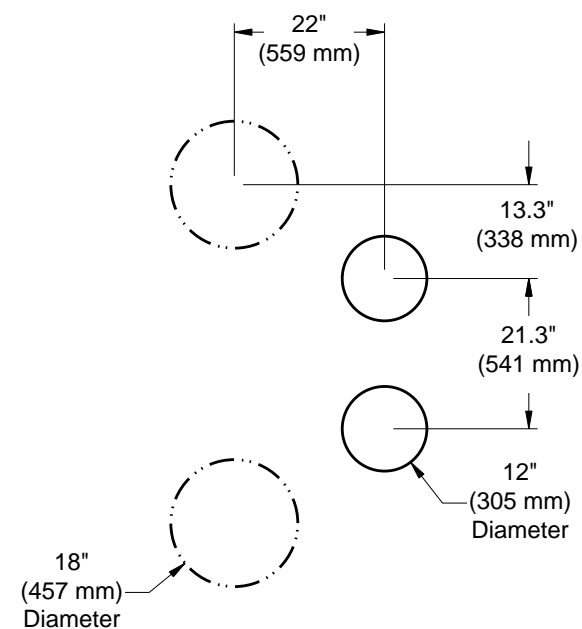
Footing Diagram

Installation Instructions

Top View



Elevation View
60" (1524 mm) Deck

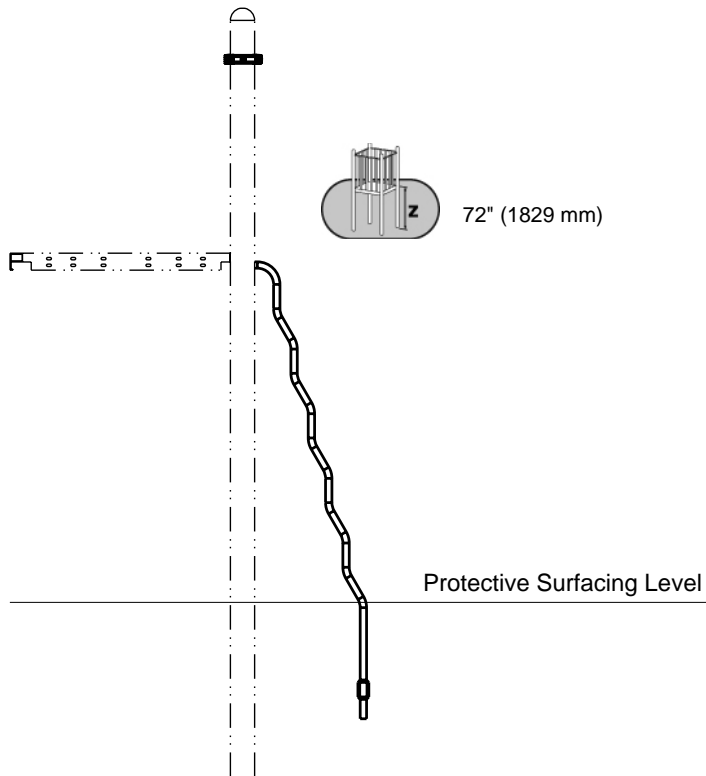
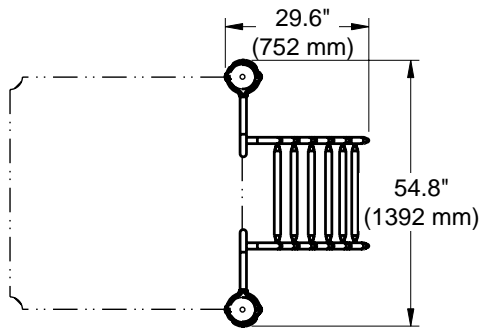


Footing Diagram

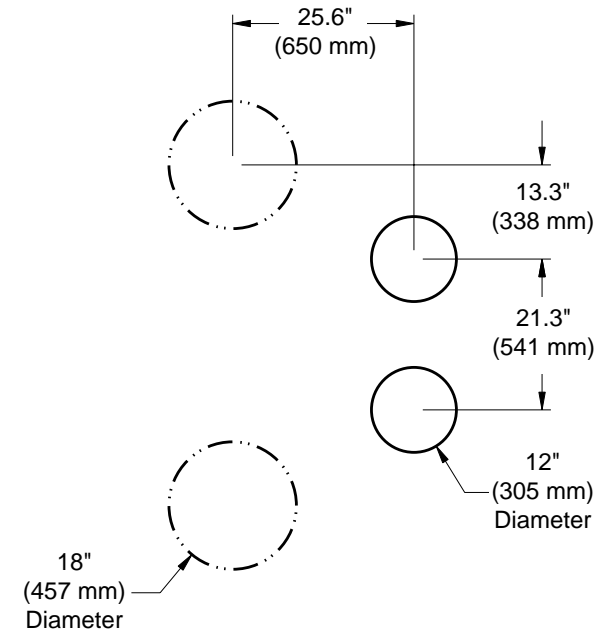
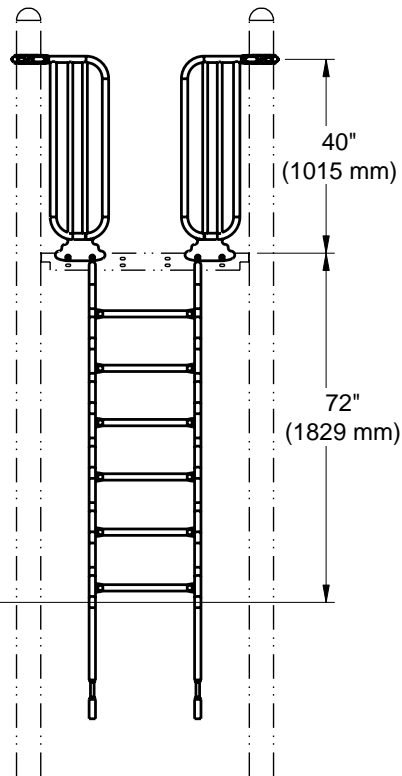


Installation Instructions

Top View



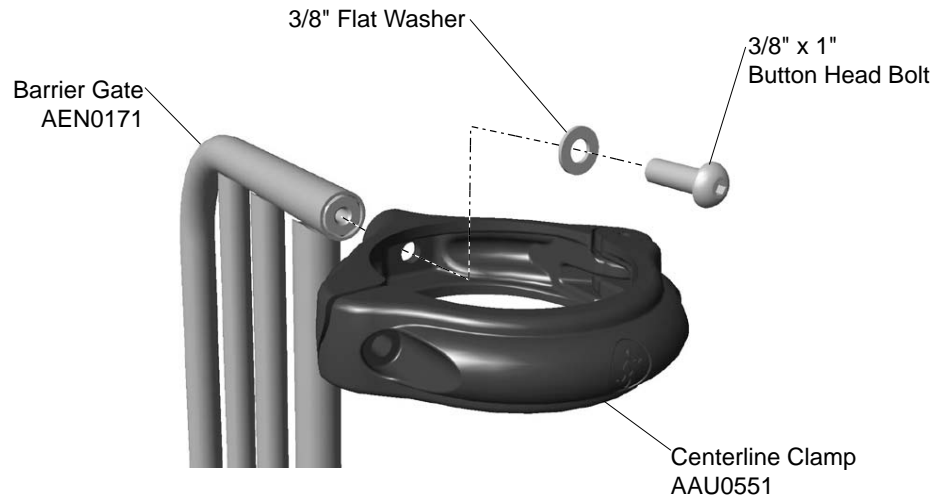
Elevation View 72" (1829 mm) Deck



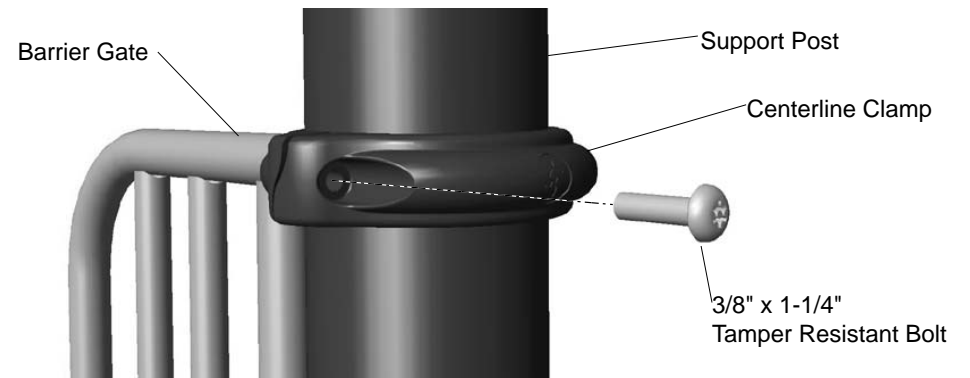
Footing Diagram

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.

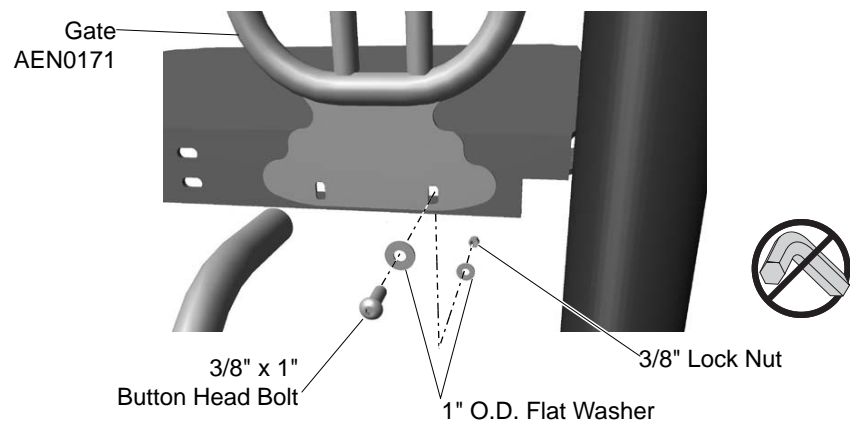


Detail A
Step 5

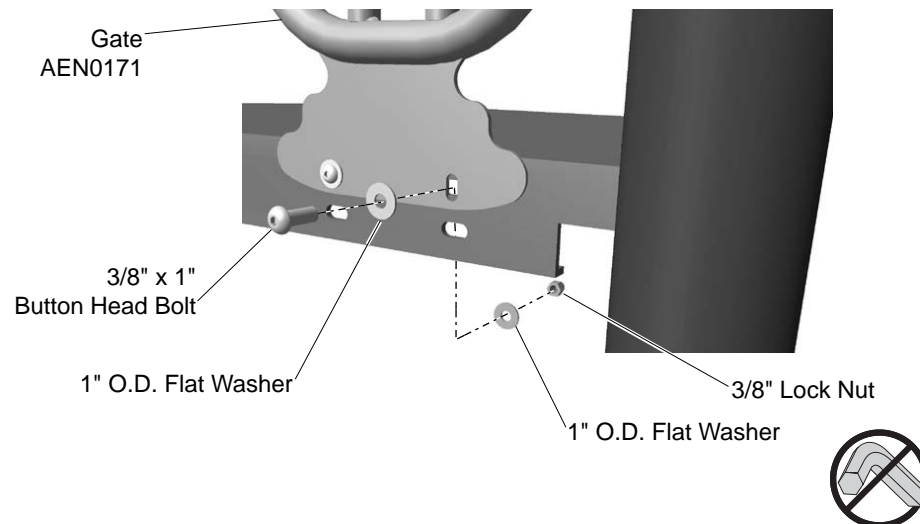


Detail B
Step 6

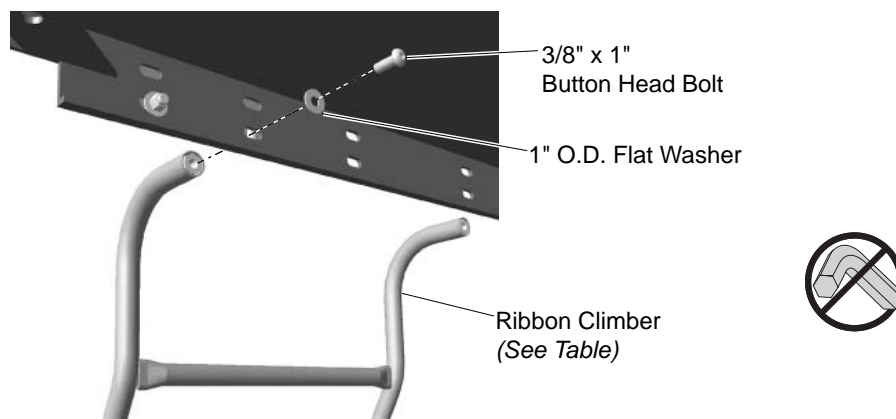
Installation Instructions



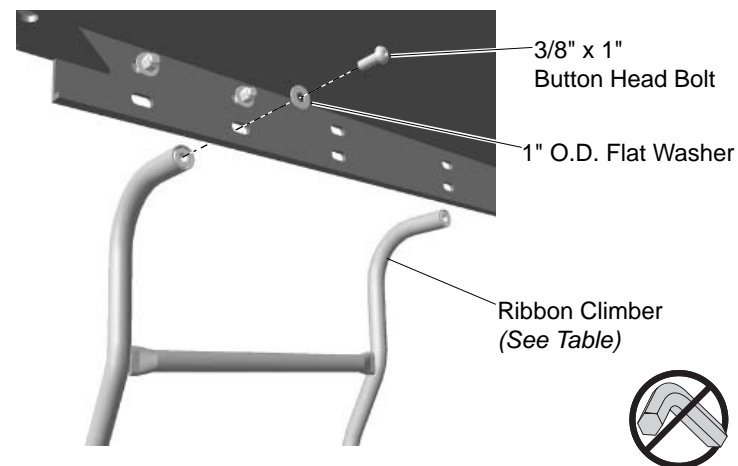
Gates in lower position



Gates in upper position

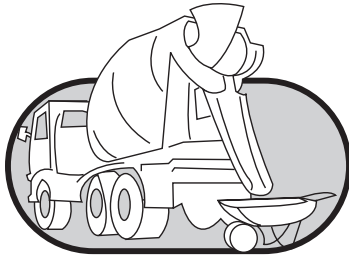


Detail C
Step 7

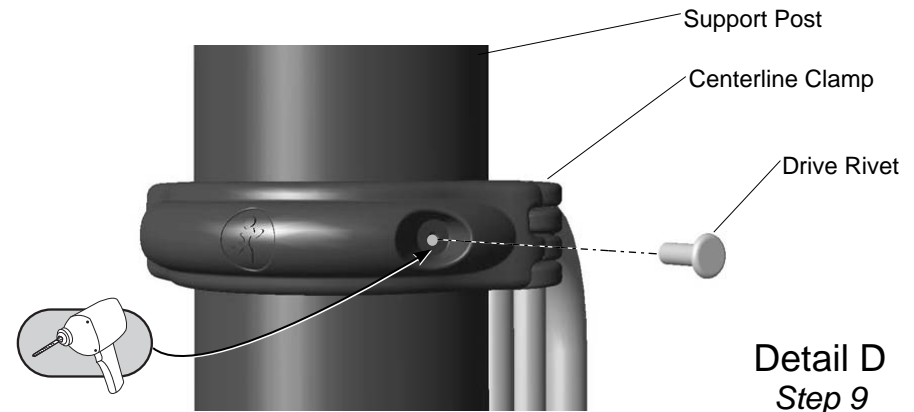


Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188

Installation Instructions



*Step 8
Pour Concrete*



*Detail D
Step 9*

INSTALLATION

__ **A Note Before You Begin:**

Do not over tighten bolts during assembly, only snug tighten unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

__ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

__ **Step 2:** Separate and identify all components and hardware by referencing the detail drawings and packing list.

__ **Step 3:** Determine placement and orientation of the ribbon climber by referring to the composite master footing diagram and associated **Elevation View**.

__ **Step 4:** Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet.

Attach the centerline clamps to the gates.

__ **Step 5:** Attach the centerline clamps to the gates. See **Detail A**. Select both gates, and (2) two clamps, and the appropriate hardware. Secure the clamp to the gate as shown. Ensure that the clamps are turned in the same direction and fully tighten the connections.

Attach the clamps to the support posts.

__ **Step 6:** Attach the clamps to the support posts. See **Detail B**. Select the appropriate hardware. Lift each gate into position against the deck and secure the clamp to the post. Snug tighten the connection only.

Attach the gates and the ribbon climber to the deck.

__ **Step 7:** Attach the gates and the ribbon climber to the deck. See **Detail C**. Select the ribbon climber and the appropriate hardware. Determine the connection position of the gates and ribbon climber, and follow the appropriate detail. Both gates should be mounted at the same height. Leave connections loose.

Final Details.

__ **Step 8:** Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications indicated on **page 1**. Block and brace, and pour concrete. Allow 72 hours for concrete to completely cure.

__ **Step 9:** Install a drive rivet in each clamp. See **Detail D**. Using a 1/4" drill bit, drill through a band and support post. Insert the drive rivet into drilled hole and drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM - 36 in. (914 mm) RIBBON LADDER (ZZPM8289)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0190	CLIMBER - 23.07" x 58.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 72 in. (1829 mm) RIBBON LADDER (ZZPM8310)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0188	CLIMBER - 23.07" x 94.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 48 in. (1219 mm) RIBBON LADDER (ZZPM8290)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0184	CLIMBER - 23.07" x 70.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 60 in. (1524 mm) RIBBON LADDER (ZZPM8300)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0186	CLIMBER - 23.07" x 82.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8



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Installation Instructions

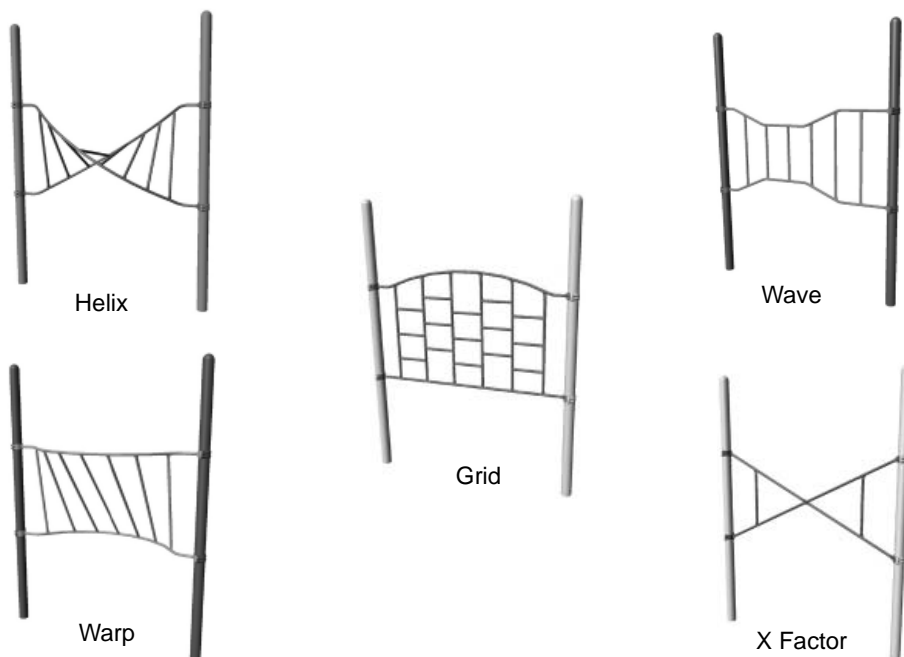
Playmakers®

Models PM8398-PM8400, PM8406 & PM8408

GroundZero® Adventure Climbers

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: (refer to table)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14



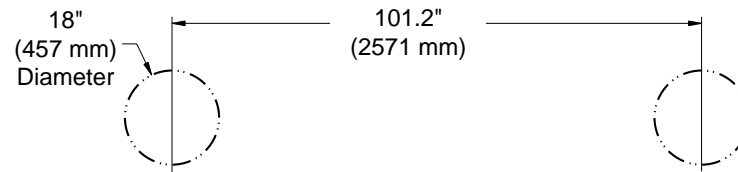
Assembly View

Models	Climber Name	Weight
ZZPM8398	Helix	85.7 lbs. (38,9 kg)
ZZPM8399	Wave	70.5 lbs. (32 kg)
ZZPM8400	Warp	94.8 lbs. (43,1 kg)
ZZPM8406	X Factor	52 lbs. (23,6 kg)
ZZPM8408	Grid	107.6 lbs. (48,9 kg)

ICON KEY

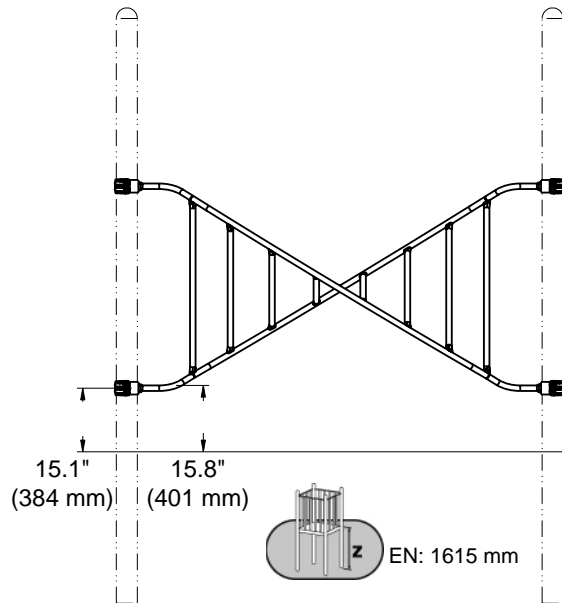
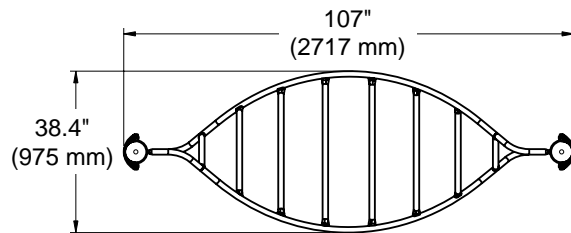
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Critical Fall Height
	Drill		Hammer

Installation Instructions



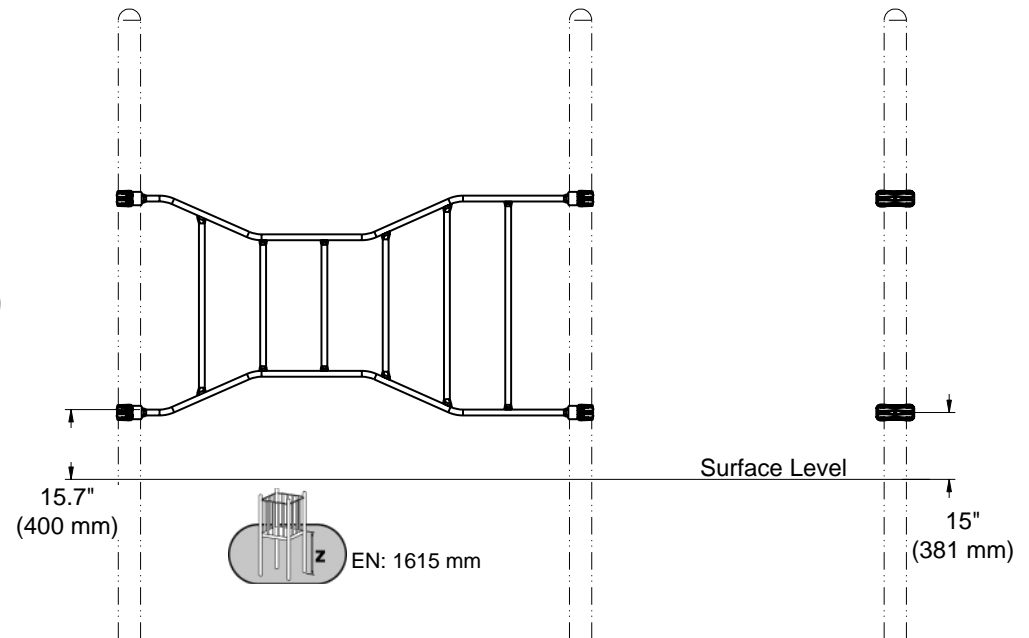
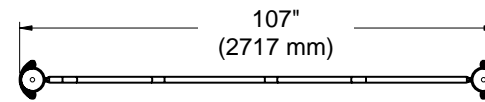
Footing Diagram
(All Models)

Top View



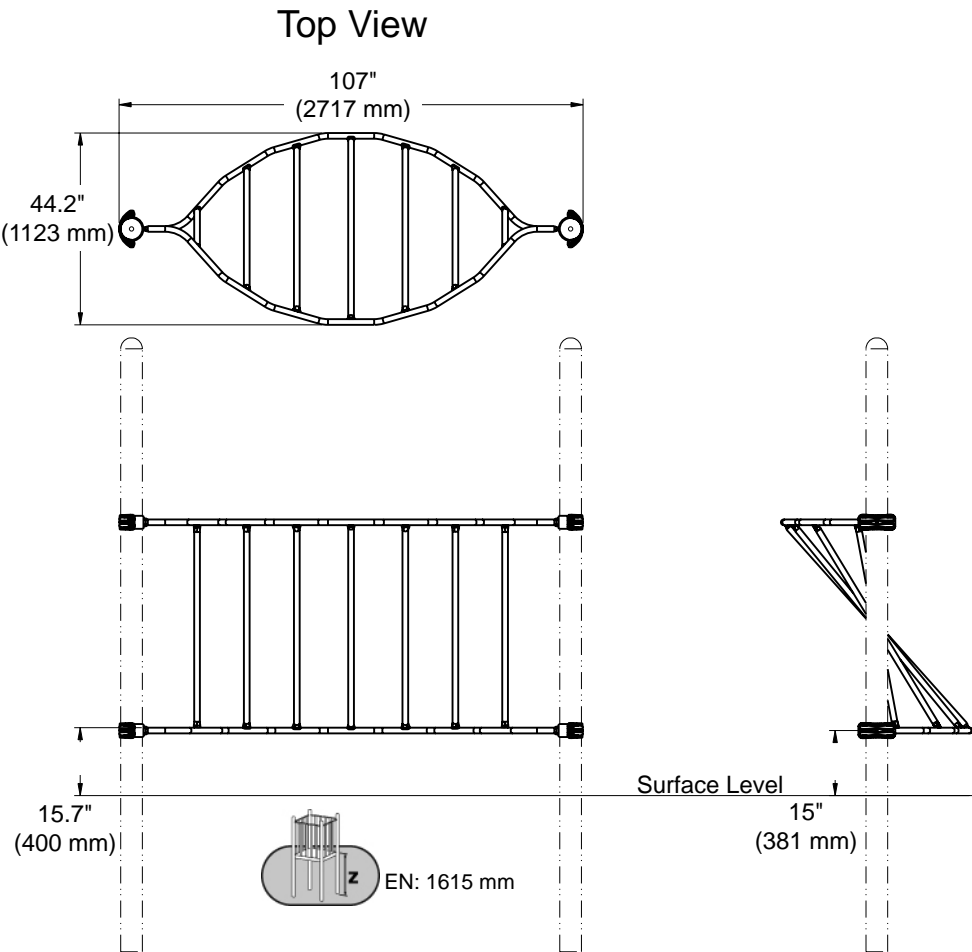
Elevation Views
ZZPM8398 - The Helix

Top View

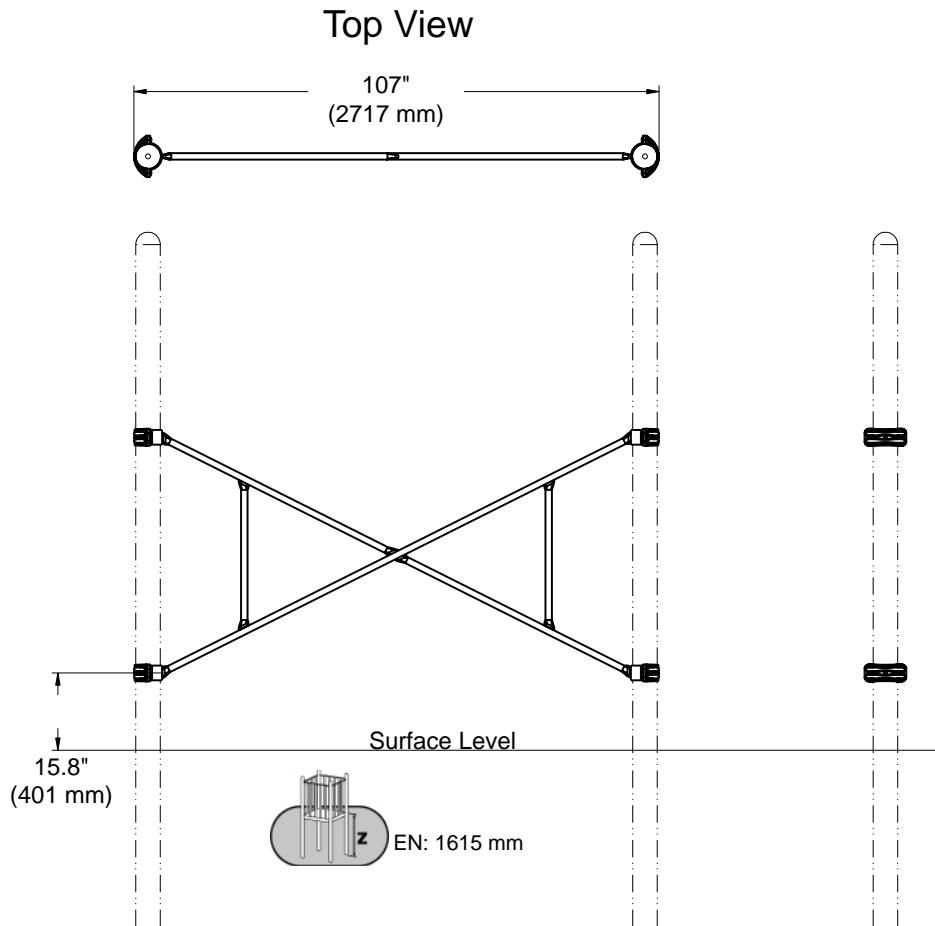


Elevation Views
ZZPM8399 - The Wave

Installation Instructions



Elevation Views
ZZPM8400 - The Warp

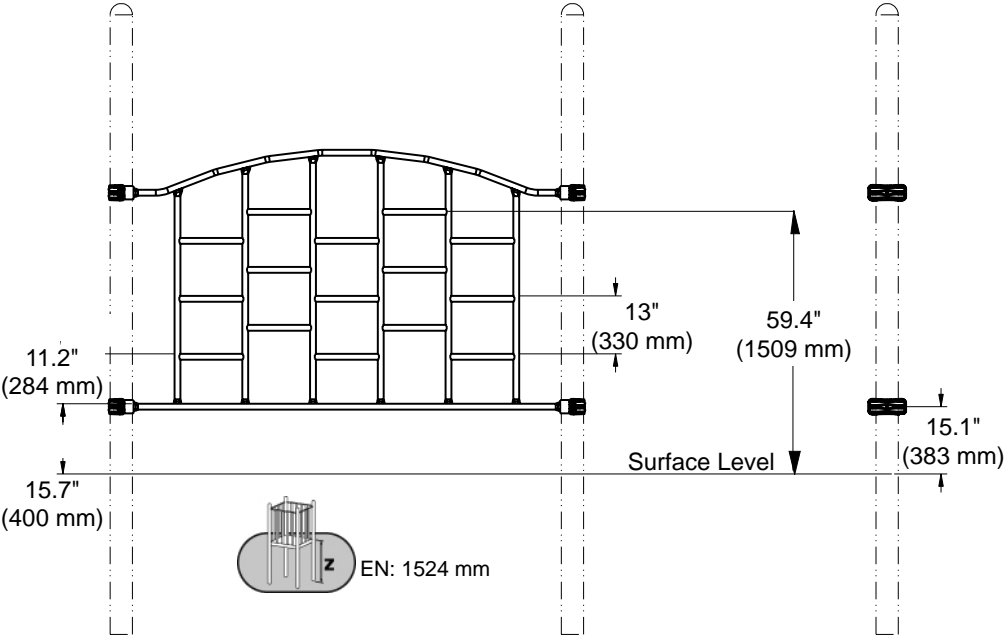
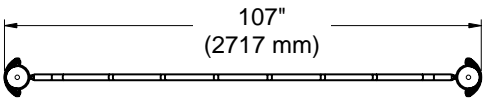


Elevation Views
ZZPM8406 - The X Factor



Installation Instructions

Top View

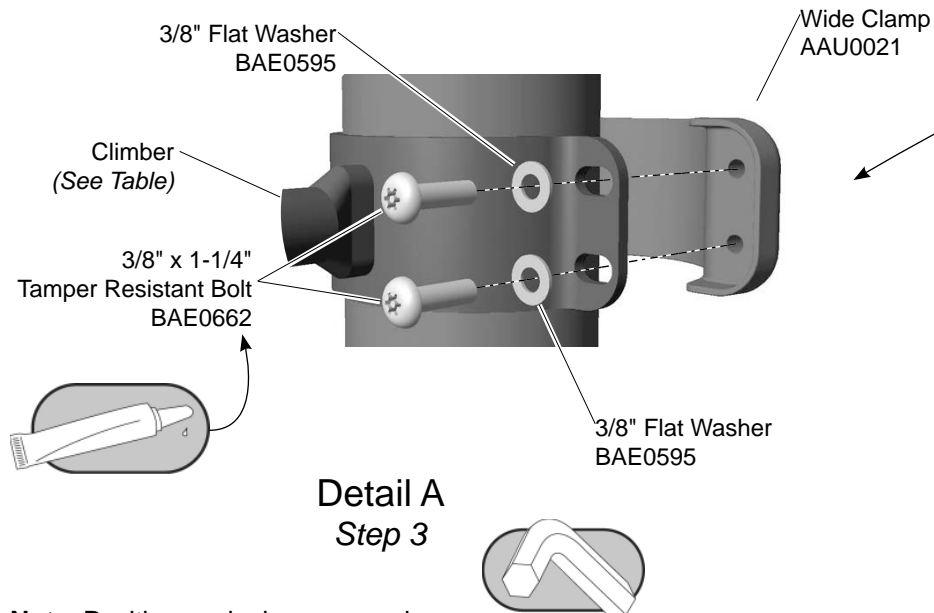


Elevation Views
ZZPM8408 - The Grid



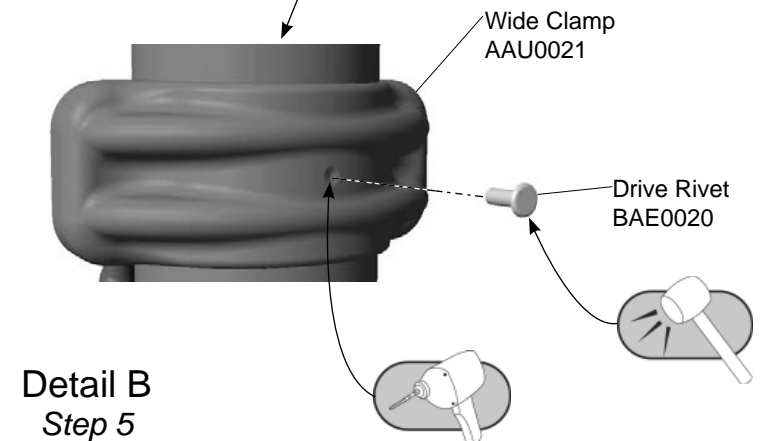
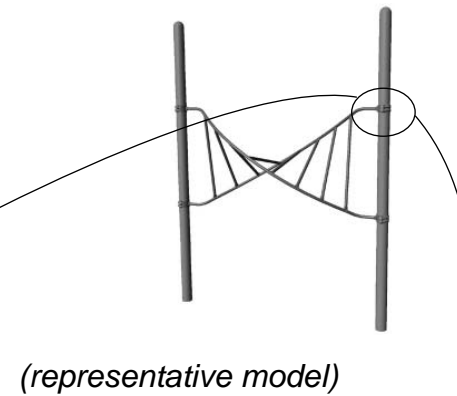
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Note: Position each clamp around a support post at the heights indicated in the **Elevation View**.

Models	Climber Name	Climber Part Number
ZZPM8398	Helix	ACL0205
ZZPM8399	Wave	ACL0207
ZZPM8400	Warp	ACL0209
ZZPM8406	X Factor	ACL0213
ZZPM8408	Grid	ACL0211



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware. Reference the master layout drawing for the component model and the location of the equipment.

Attach the climber to the support posts.

___ **Step 3:** Attach the climber to the support posts. See **Detail A** and the corresponding **Elevation View**. Select the appropriate climber, (4) four wide clamps, and the appropriate hardware. There are (8) eight connections. Position the climber between the post at the height indicated and attach as shown.

Final Details.

___ **Step 4:** Plumb and level the component. Ensure components are at the heights specified in the **Elevation Views**. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

___ **Step 5:** Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM8398 - GROUNDZERO® ADVENTURE HELIX CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
ACL0205	CLIMBER - THE HELIX (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16

PM8408 - GROUNDZERO® ADVENTURE GRID CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
ACL0211	CLIMBER - THE GRID (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16

PM8399 - GROUNDZERO® ADVENTURE WAVE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
ACL0207	CLIMBER - THE WAVE (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16

PM8400 - GROUNDZERO® ADVENTURE WARP CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
ACL0209	CLIMBER - THE WARP (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16

PM8406 - GROUNDZERO® ADVENTURE X FACTOR CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
ACL0213	CLIMBER - THE X FACTOR (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16

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Assembly View

Installation Instructions

Playmakers® Model PM5736

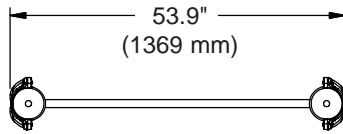
Chinning/Turning Bar

Installation Preparation

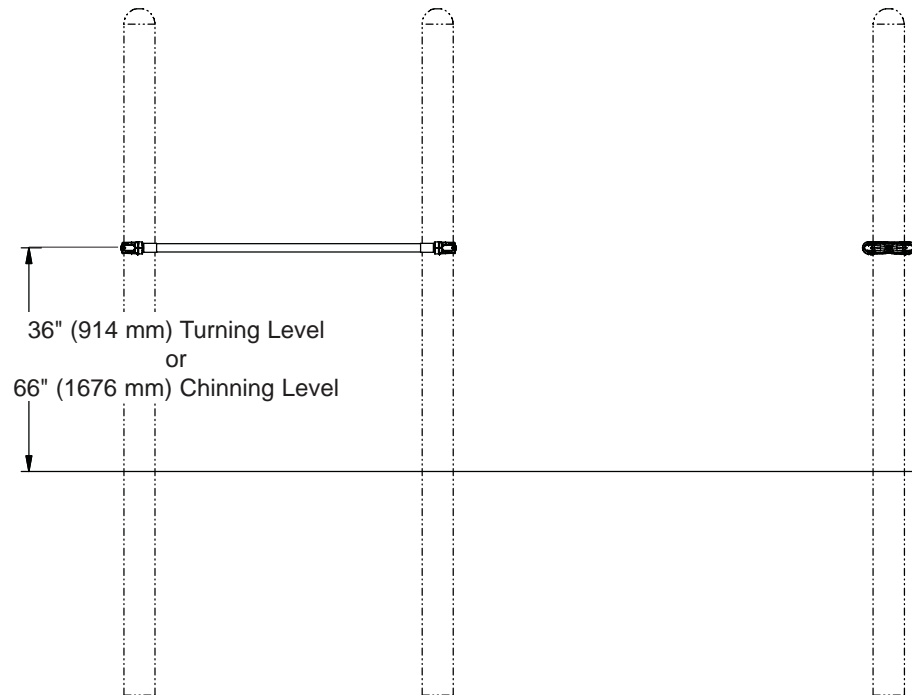
Recommended Crew: One (1) adult
Installation Time: 0.5 installation-hours
Weight: 9.2 lbs. (4,2 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



Top View



Elevation Views

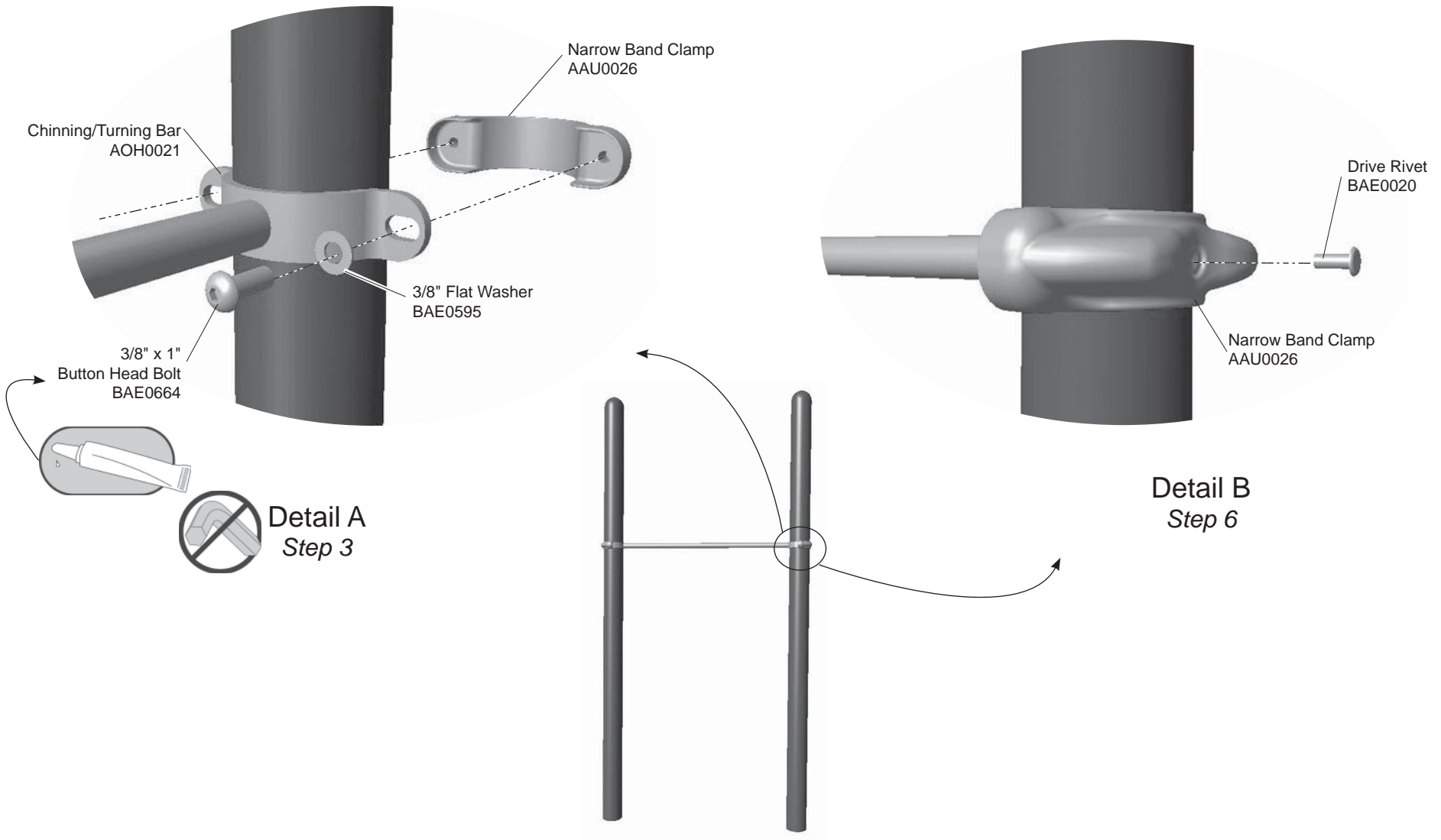
Important Note: If the bars are placed one above the other they must be evenly spaced with no less than 9 in. (229 mm) or more than 12 in. (305 mm) of space between them.



EN: 914 mm Turning Level
or 1676 mm Chinning Level (the
height that the highest bar is
set at)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach chinning / turning bar to support posts.

__Step 3: Attach chinning / turning bar to support posts. See **Detail A**. Select (1) one chinning/turning bar, (2) two 3-1/2" narrow aluminum band clamps, and the appropriate hardware. There are (4) four connections. Position the chinning/turning bar between the two support posts at a recommended height as shown in the **Elevation View**. Place the band clamp around the support post aligned with the steel band on the chinning/tuning bar. Apply a drop of loctite to the bolt threads and attach as shown. Repeat the procedure for remaining clamp. Do not fully tighten bolts at this time.

Adjust the height of the chinning / turning bar.

__Step 4: Adjust height of the bar to approximately 36" (914 mm) above the surfacing level for a turning bar installation. Place assembly approximately 66" (1676 mm) above the surfacing material level for a chinning bar configuration.

Note: Height of chinning/turning bar can be adjusted to accommodate a specific age group.

Final Details.

__Step 5: Plumb and level the horizontal bar at desired height. See the important note on the elevation page regarding vertical spacing. Fully tighten **all** fasteners in accordance with tightening torque specifications as listed on page one.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 6: Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5736 - CHINNING/TURNING BAR

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	2
AOH0021	OVERHEAD - 47-3/4" x 7-7/8" CHINNING/TURNING	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4



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SUPERVISION INSTRUCTIONS

PLAYWORLD SYSTEMS® HORIZONTAL LOOP RUNG LADDER

Attention Owner

The Horizontal Loop Rung Ladder is designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Horizontal Loop Rung Ladder can result in serious accidents. The following rules for the use of the Horizontal Loop Rung Ladder must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Horizontal Loop Rung Ladder is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the horizontal hand rung assembly.
- Users must move in same direction across the length of the Horizontal Loop Rung Ladder assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.

- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.
- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Horizontal Loop Rung Ladder in accordance with the applicable standard in your area, appropriate for the fall height of the Horizontal Loop Rung Ladder.
- Review and familiarize warning document supplied with each Horizontal Loop Rung Ladder shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet







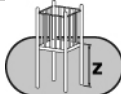
Assembly View (representative model)

Installation Instructions

Playmakers® Model PM5880
6 ft. (1829 mm) Horizontal Spiral Ladder

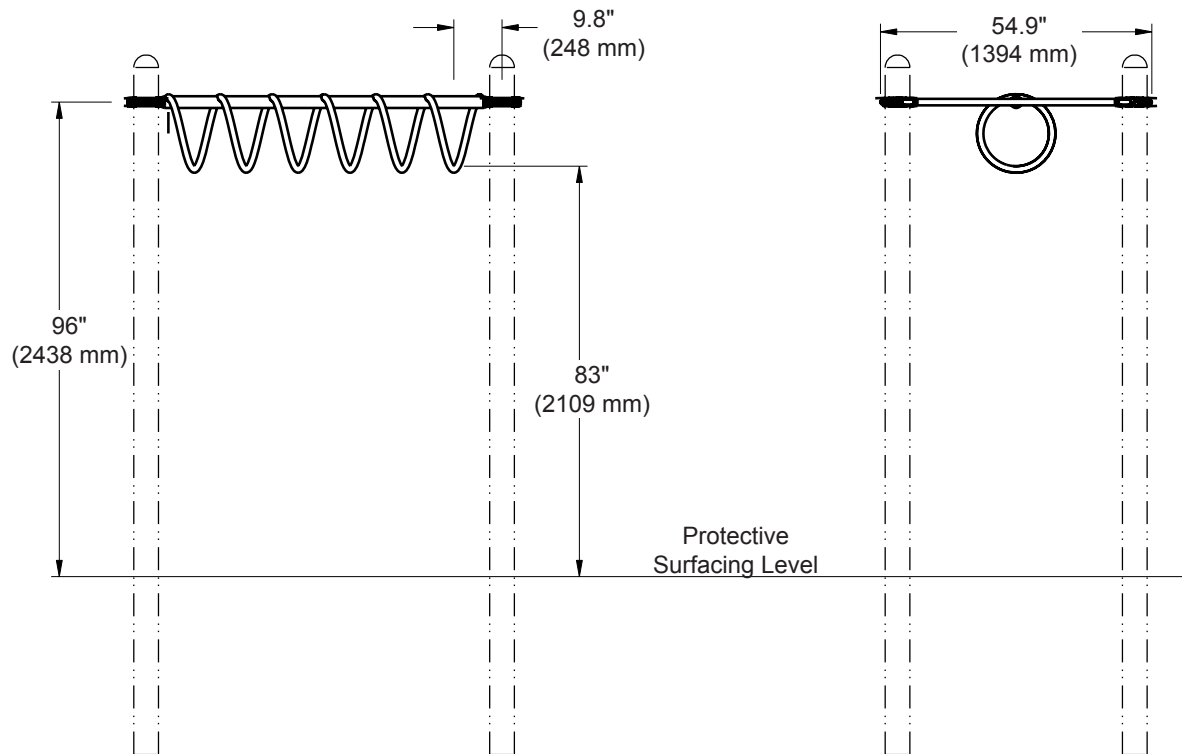
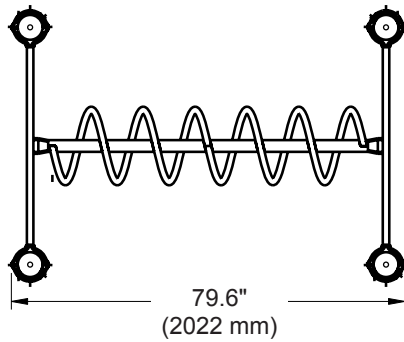
Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 1 man-hour
Weight: 67.5 lbs. (30,7 kg)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

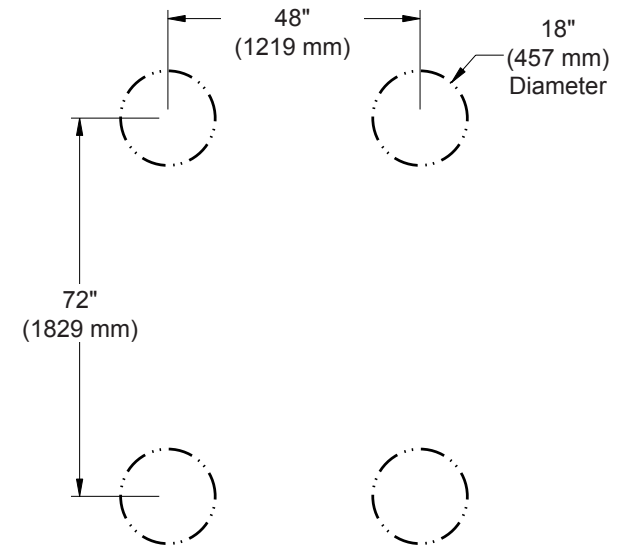
ICON KEY			
	Fully Tighten Hardware		Drill
	Do Not Fully Tighten Hardware		Hammer
	Critical Fall Height		

Installation Instructions

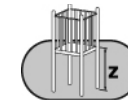
Top View



Elevation Views



Footing Diagram



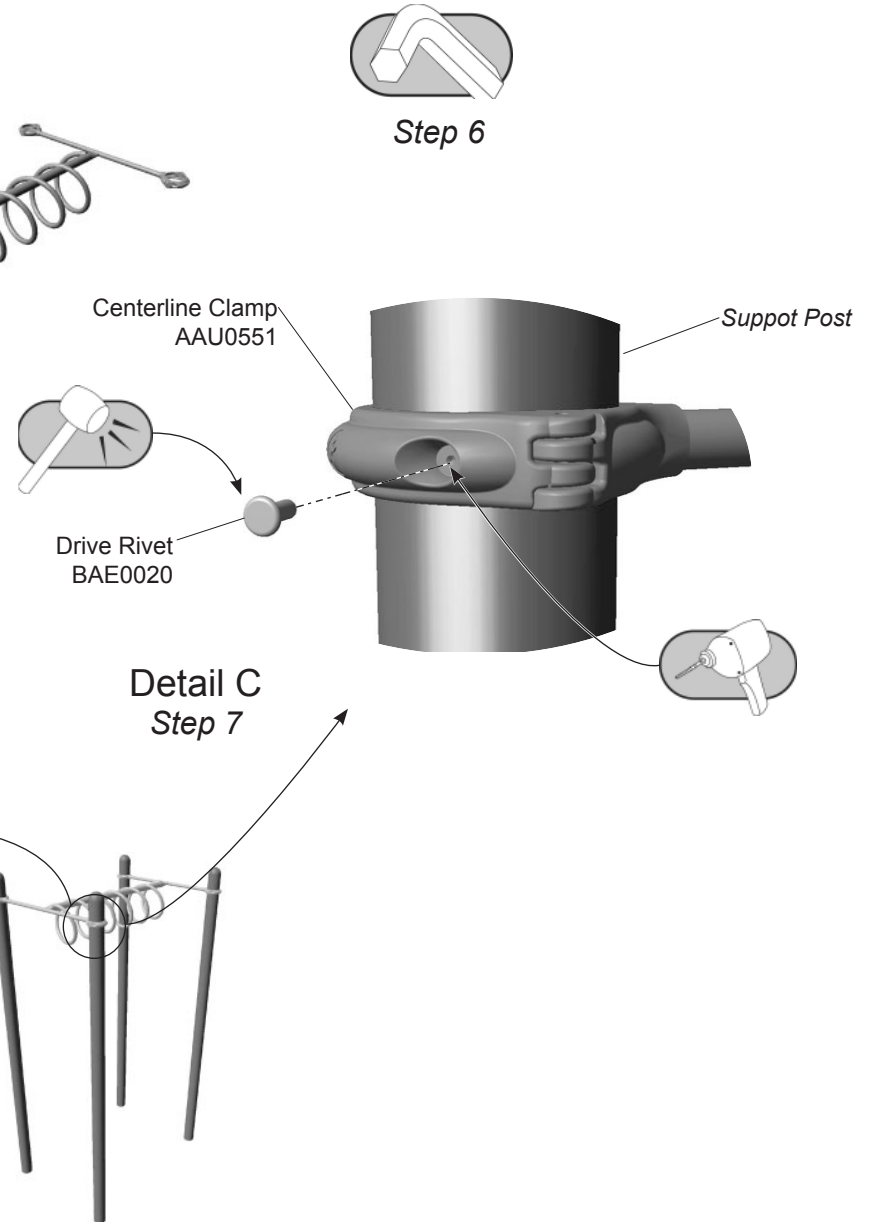
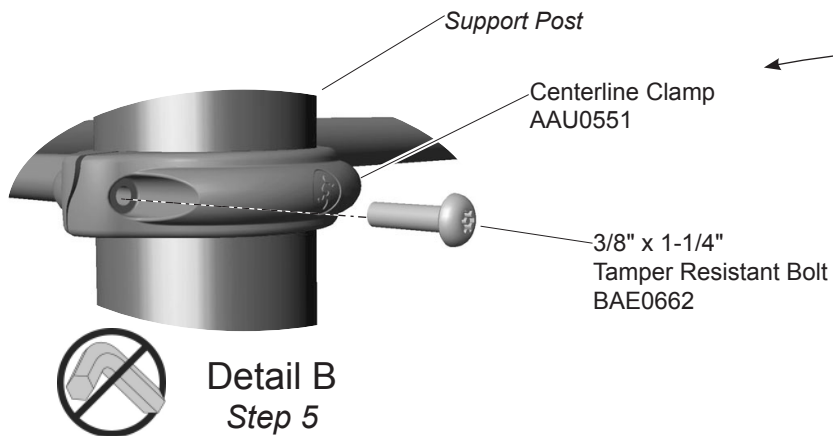
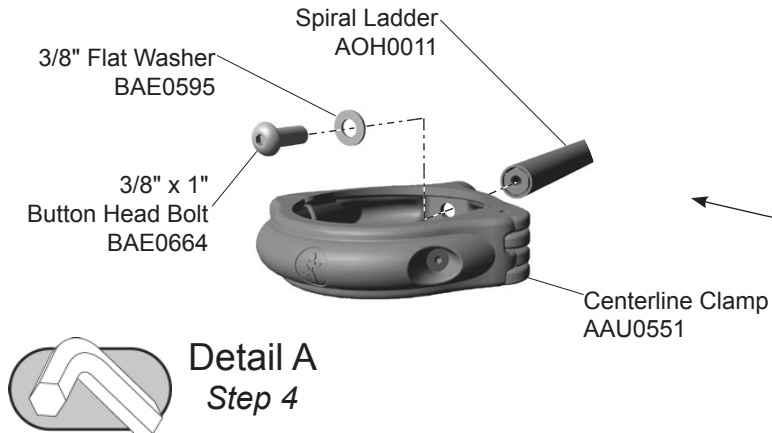
EN: 2109 mm
(maximum 2134 mm)

Notes:

- Hand-gripping rungs should be a maximum of 84" (2134 mm) above the protective surfacing.
- Height of hand-gripping rungs may vary due to platform height.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Reference the master layout drawing for the placement of the ladder.

Attach the clamps to the horizontal ladder.

__Step 4: Attach the clamps to the horizontal ladder. See **Detail A**. Select the horizontal spiral ladder, (4) four centerline clamps, and the appropriate hardware. Position a clamp against each end of the support rods and attach as shown. Fully tighten the connections.

Attach the ladder to the support posts.

Note: Due to the size and weight of the assembly it is recommended that at least (3) three average size adults complete this step.

__Step 5: Attach the ladder to the support posts. See **Detail B** and **Elevation View**. Select (4) four tamper resistant bolts. Lift the ladder into position between the posts and attach as shown. Adjust to specified height.

Important Note: The top of the hand gripping rung should be positioned no higher than 84" (2134 mm), when measured from the top of the surfacing material. The height of the ladder may be adjusted to accommodate the intended user.

Final Details.

__Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

__Step 7: Install the drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5880 - 6 ft. (1829 mm) HORIZONTAL SPIRAL LADDER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AOH0011	LADDER - HORIZONTAL SPIRAL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4

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WARNING

Attention Owner

The Sky Link and The Sky Arch is designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Sky Link and The Sky Arch can result in serious accidents. The following rules for the use of the Sky Link and The Sky Arch must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Sky Link and The Sky Arch is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the Sky Link or The Sky Arch assembly.
- Users must move in same direction across the length of the Sky Link and The Sky Arch assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.

SUPERVISION INSTRUCTIONS

PLAYWORLD SYSTEMS® THE SKY LINK & THE SKY ARCH

- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.
- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Sky Link and The Sky Arch in accordance with the applicable standard in your area, appropriate for the fall height of the Sky Link and The Sky Arch.
- Review and familiarize warning document supplied with each Sky Link and The Sky Arch shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it. Playworld Systems accepts NO responsibility for improper use.

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



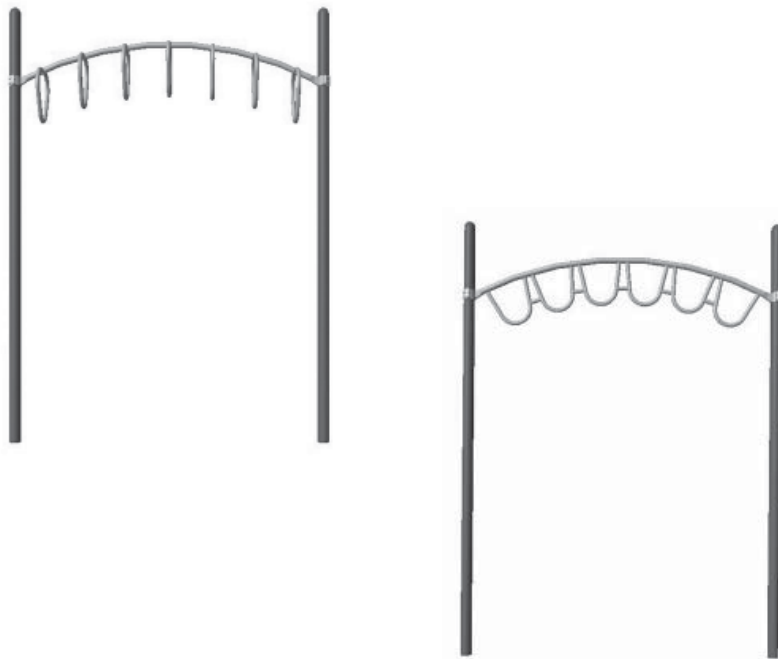
Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet



Assembly View (representative model)

Model	Name	Weight
ZZPM8450	The Sky Link	55.1 lbs. (25 kg)
ZZPM8456	The Sky Arch	45.7 lbs. (20,8 kg)

Installation Instructions

Playmakers® Models PM8450 & PM8456

The Sky Link & The Sky Arch

Installation Preparation

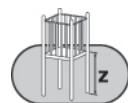
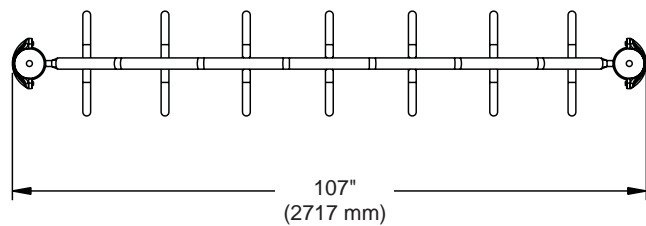
Recommended Crew: Two (2) adults
 Installation Time: 0.5 installation-hours
 Weight: (refer to table)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

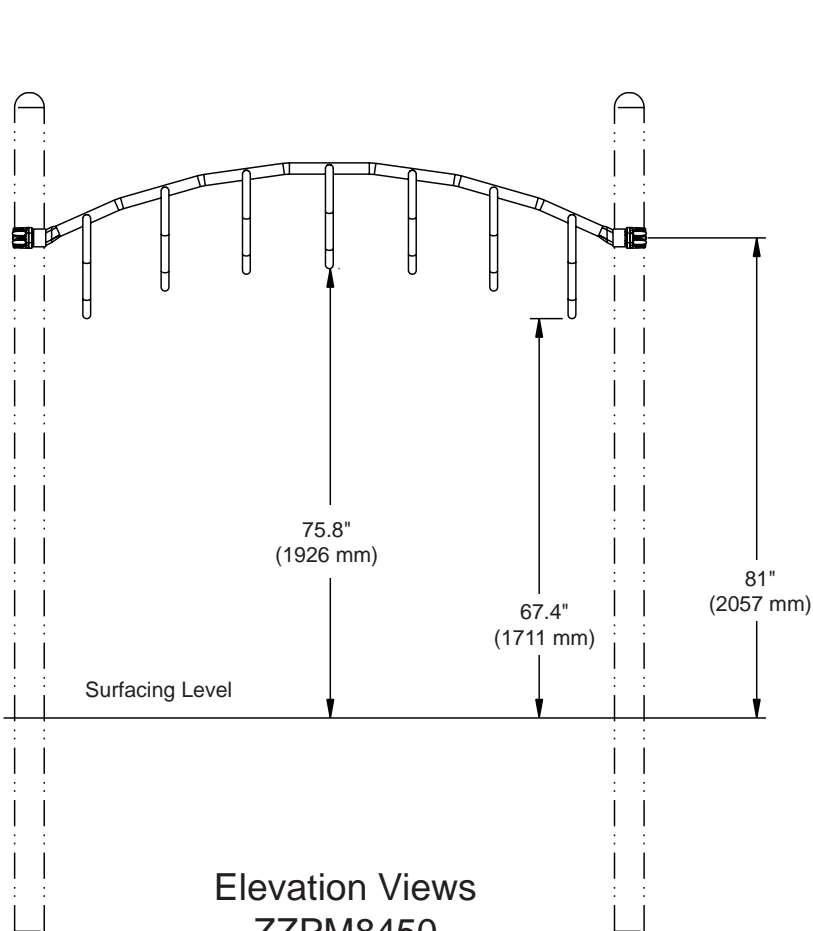
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

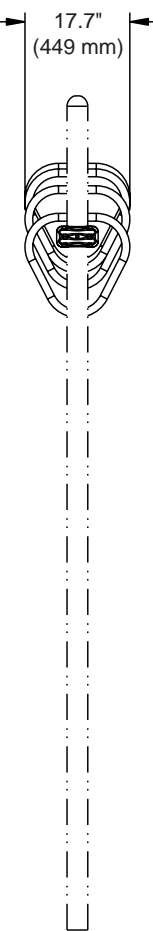
Top View



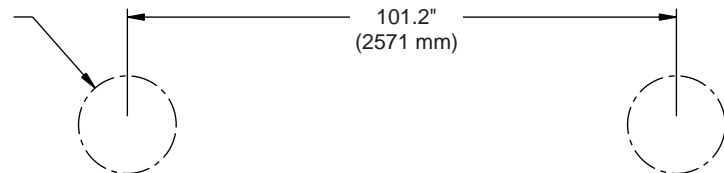
EN: 1926 mm



Elevation Views
ZZPM8450



18"
(457 mm)
Diameter

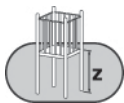
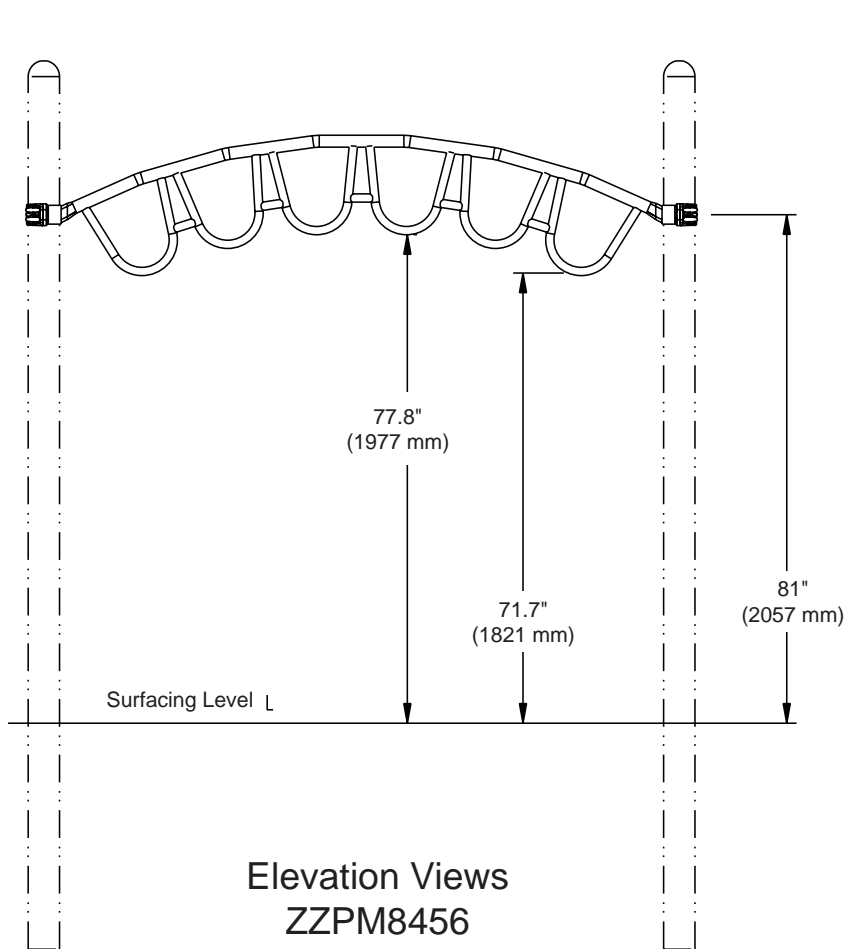
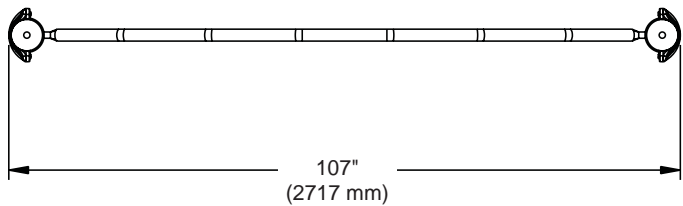


Footings Diagram
Both Models



Installation Instructions

Top View

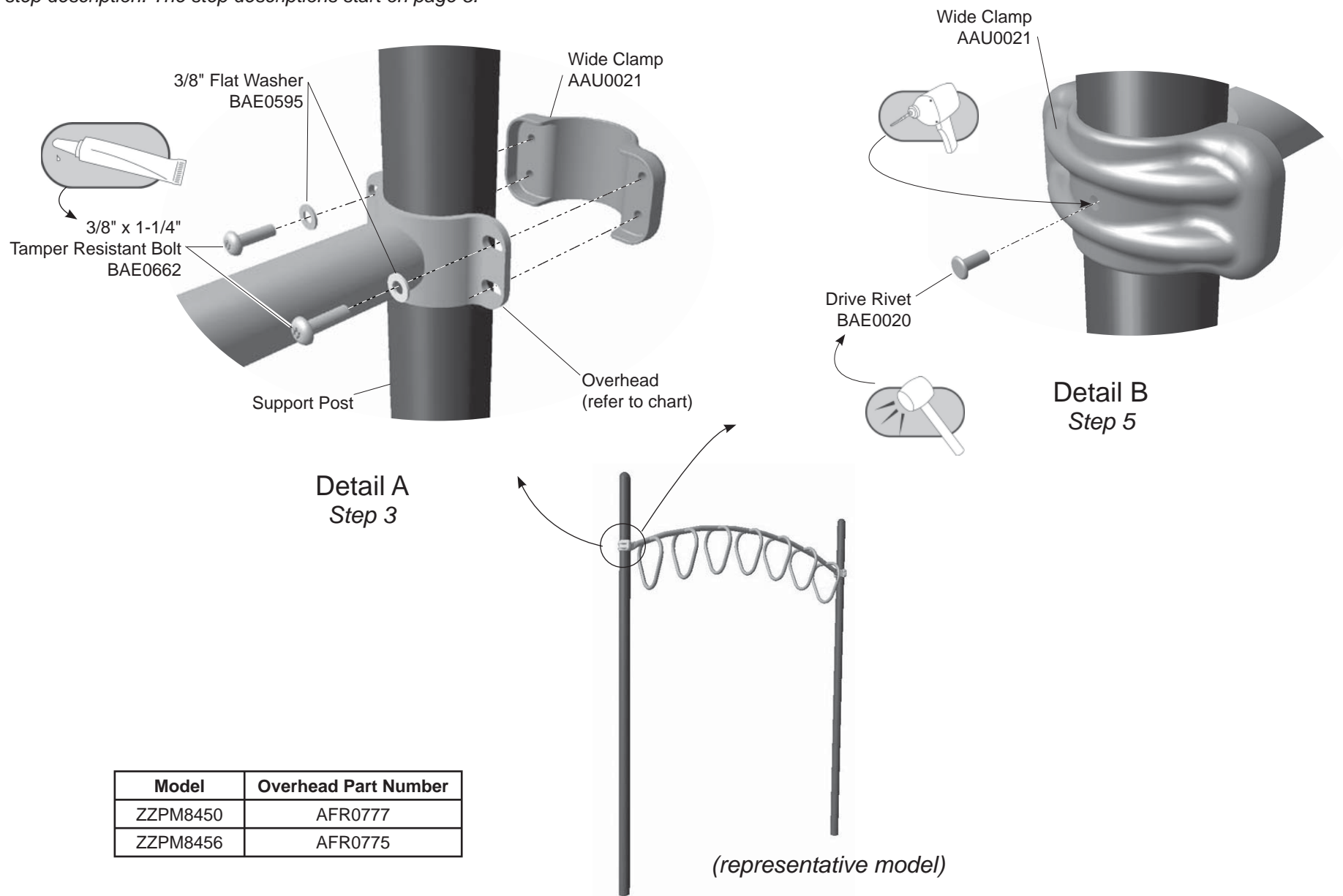


EN: 1977 mm



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model	Overhead Part Number
ZZPM8450	AFR0777
ZZPM8456	AFR0775

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the overhead to the support posts.

Step 3: See **Detail A**. Select the overhead, the clamp, and the appropriate hardware. There are (8) eight connections. Lift the overhead to the appropriate height. Apply a drop of loctite to the bolt threads and attach as shown.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM8450 - THE SKY LINK

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0777	OVERHEAD - ADVENTURE SERIES BACKBONE (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	8

PM8456 - THE SKY ARCH

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0775	OVERHEAD - ADVENTURE SERIES LOOP (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	8



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Assembly View

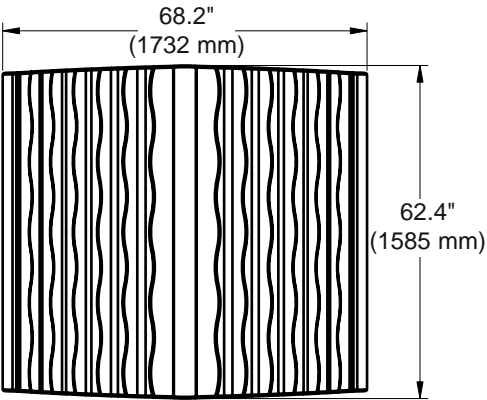
Installation Instructions
Playmakers®
Model PM9846
Cabana Roof

Installation Preparation

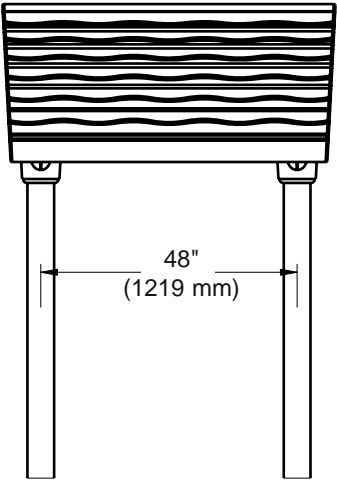
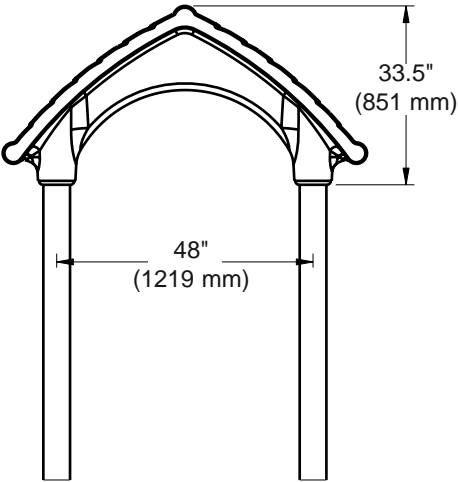
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 123 lbs. (55,9 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



Top View



Elevation Views
ZZPM9846

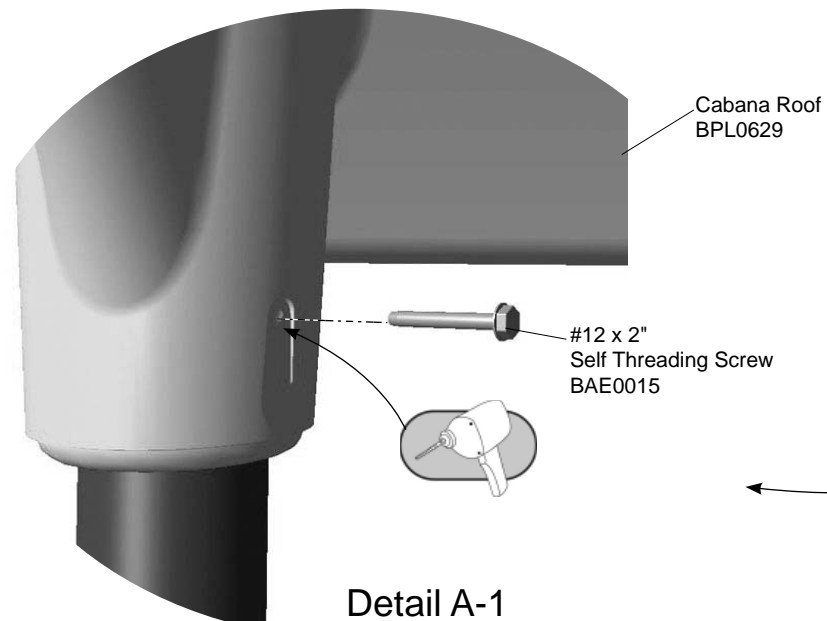


Installation Instructions

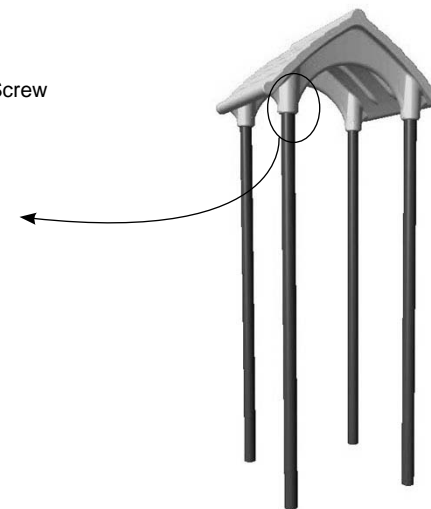
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1
Step 3



Detail A-1
Step 3



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1

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Assembly View (representative model)

Installation Instructions

Playmakers®

Models PM9168, PM9170 and PM9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and
36" (914 mm) Rise Height

Installation Preparation

Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

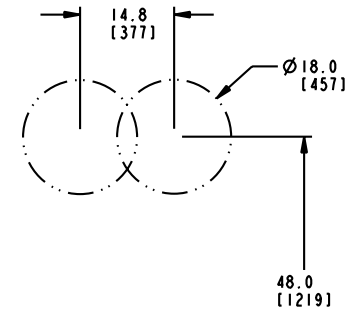
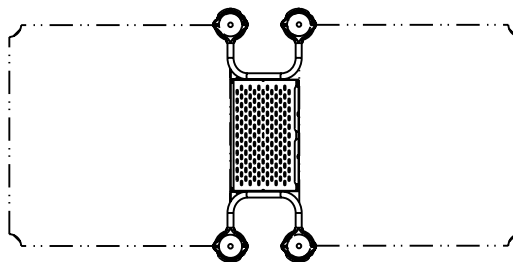
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

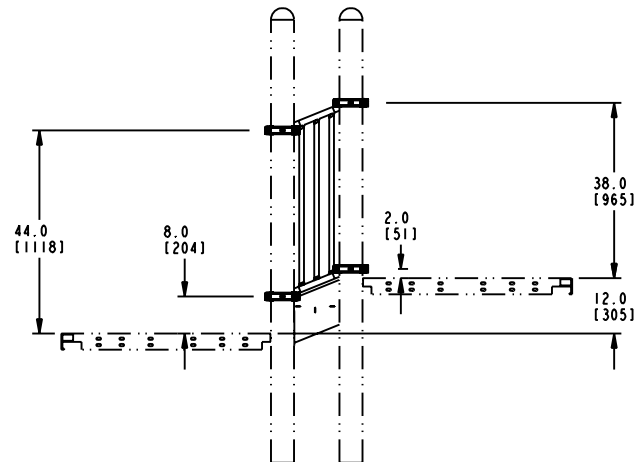
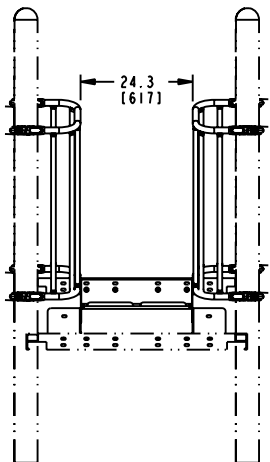
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

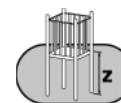
Top View



Footing Diagram



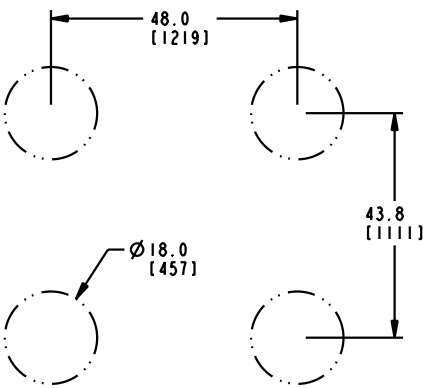
Elevation Views
PM9168



Height of the upper deck
minus 6" (152 mm)

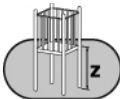
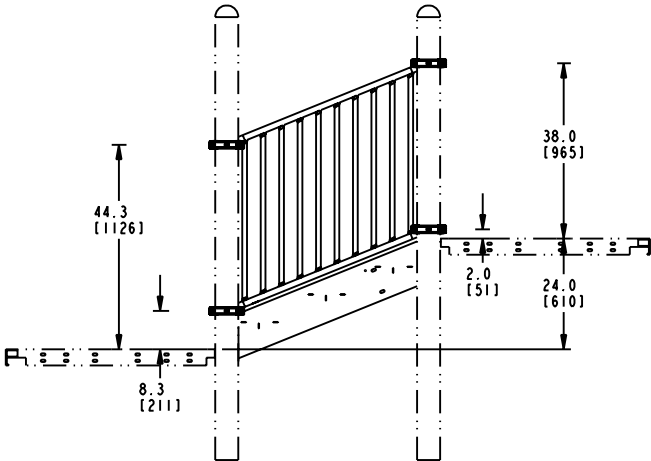
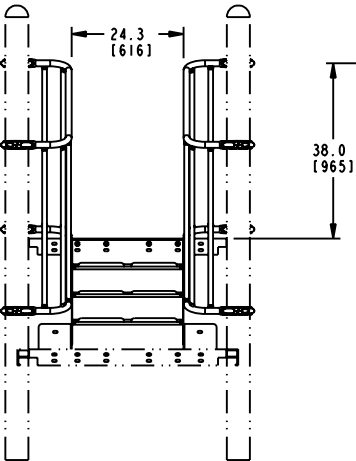
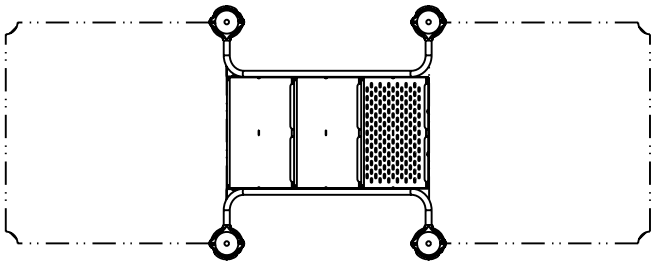
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

Top View



Height of the upper deck
minus 6" (152 mm)

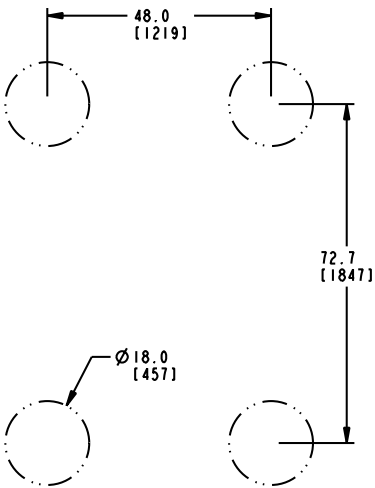
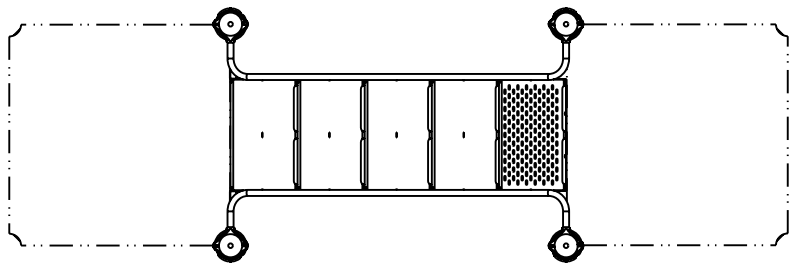
Elevation Views
PM9170



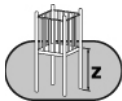
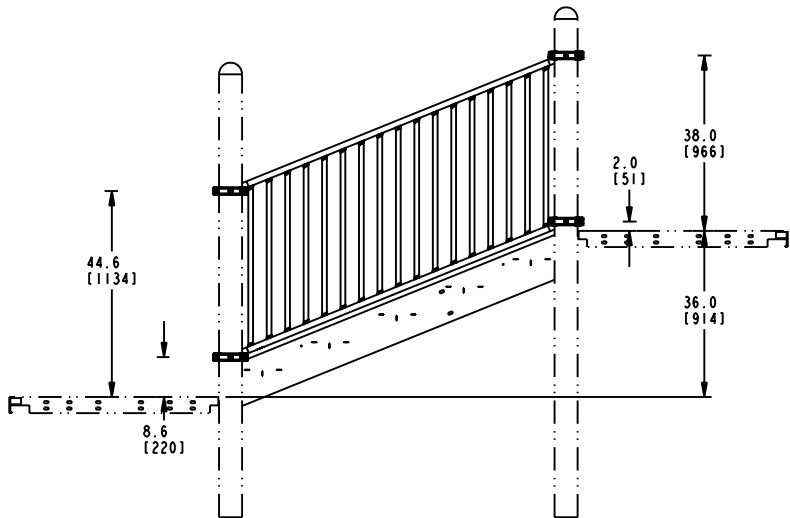
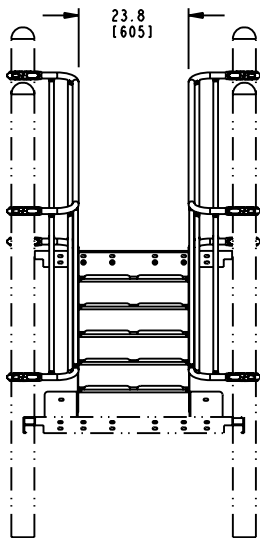
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram



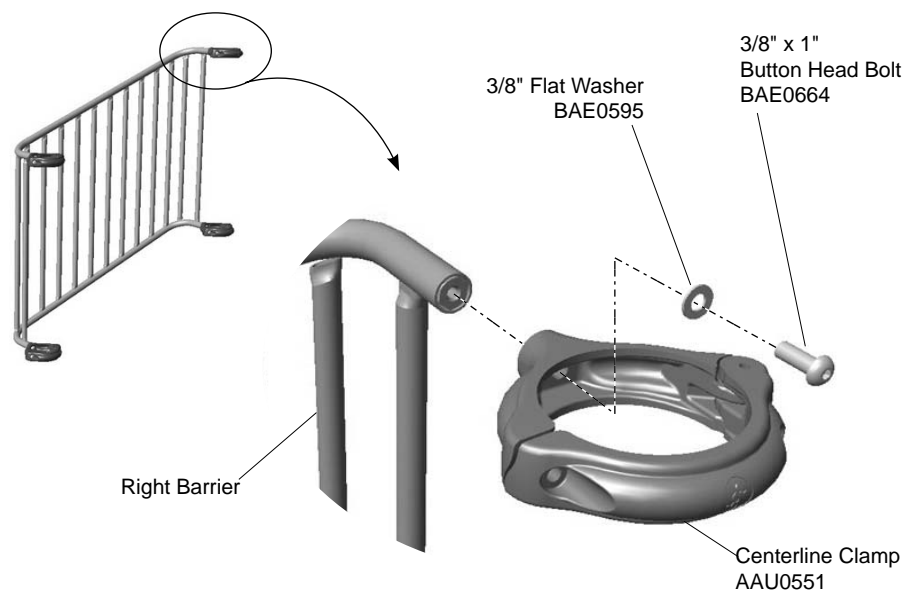
Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177



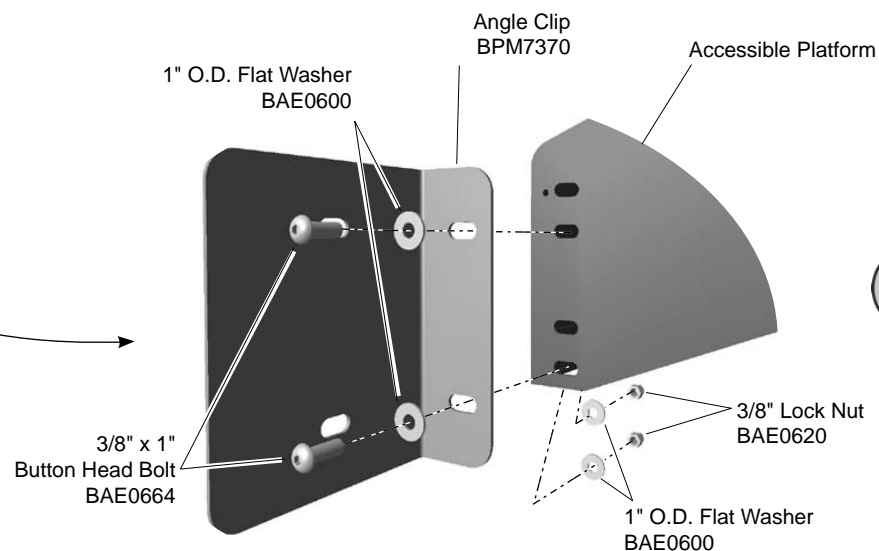
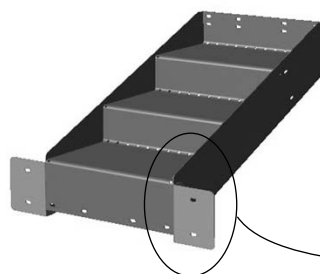
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

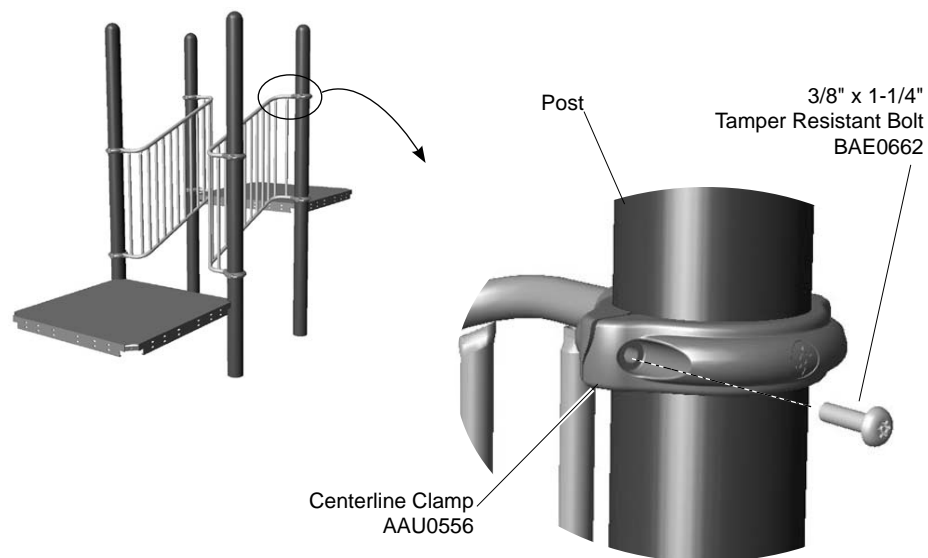


Detail A
Step 4

The front of angle clip should be even with the face of the platform



Detail C
Step 6

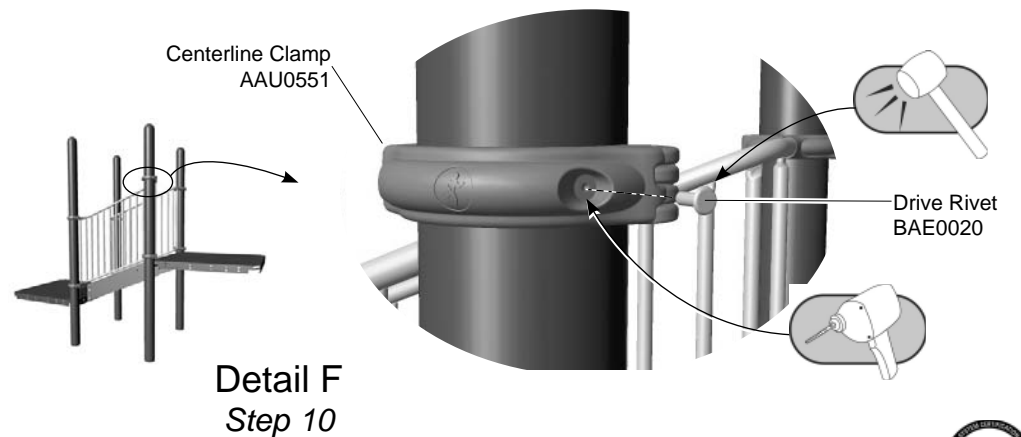
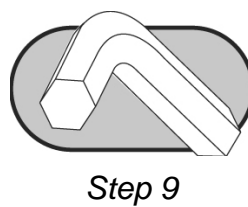
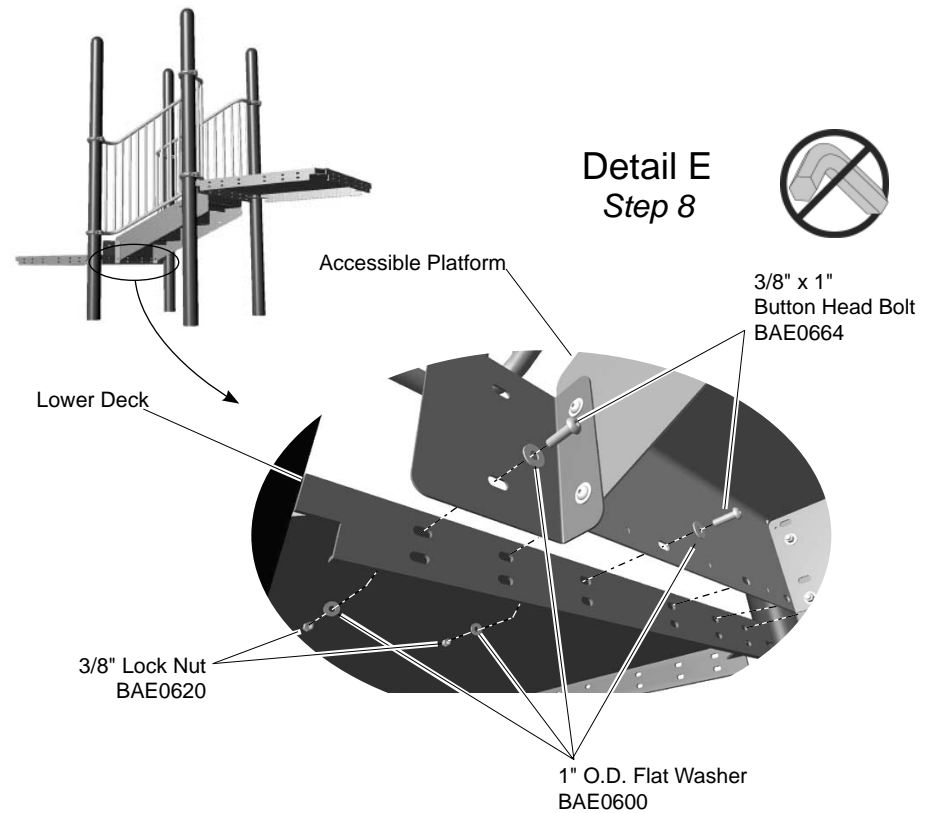
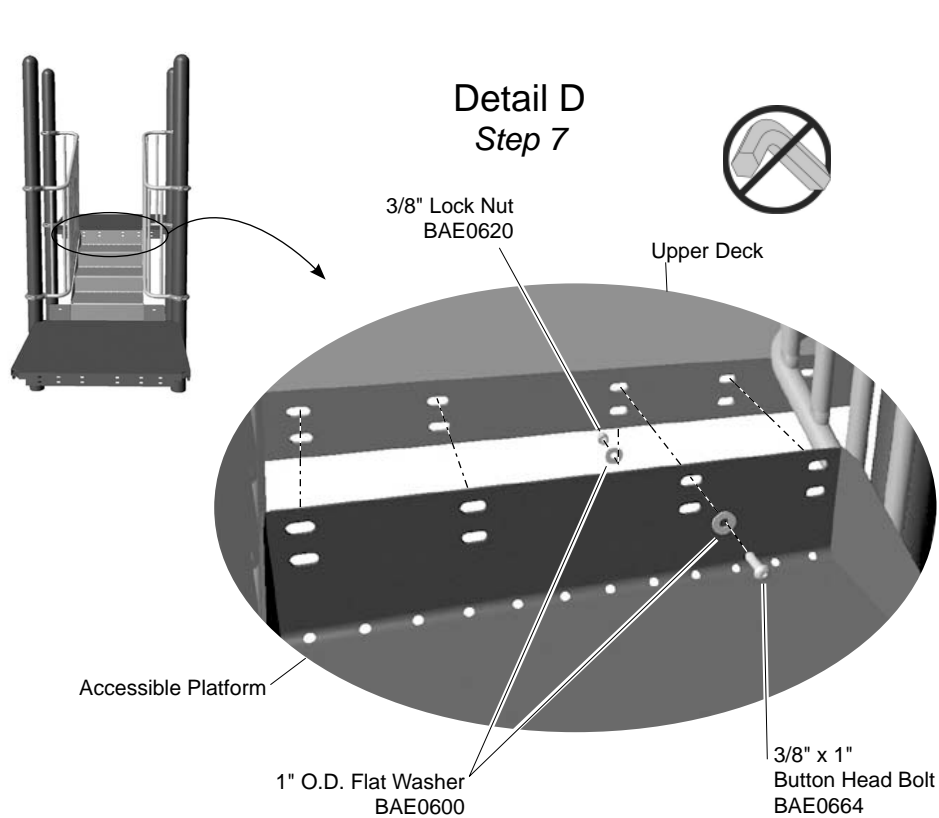


Detail B
Step 5



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

Step 10: Rivet the clamps to the posts. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®




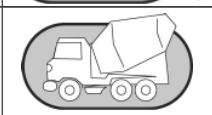
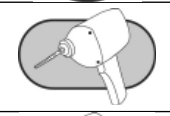

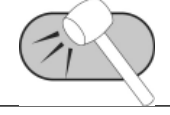
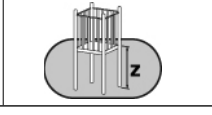
Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

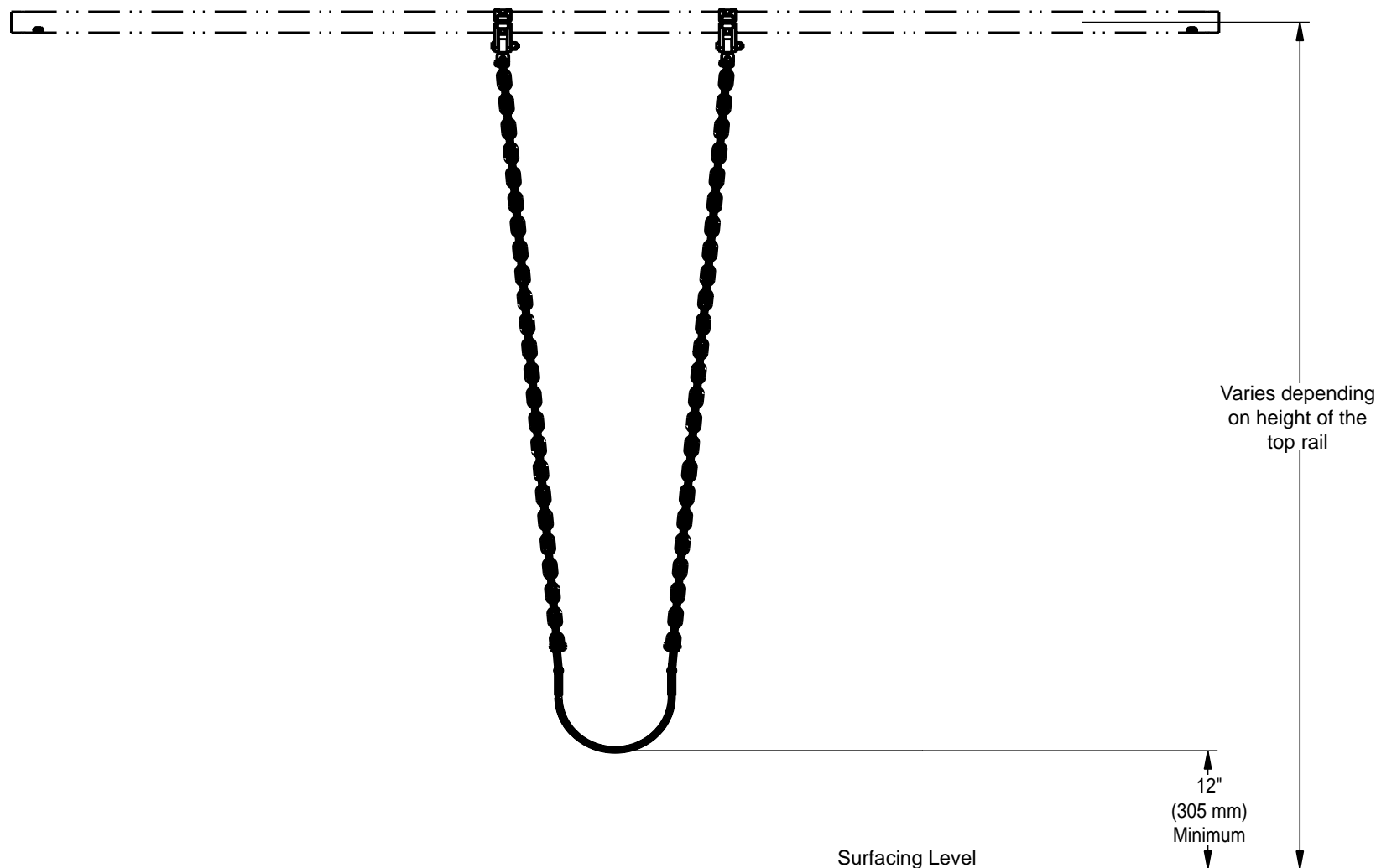
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

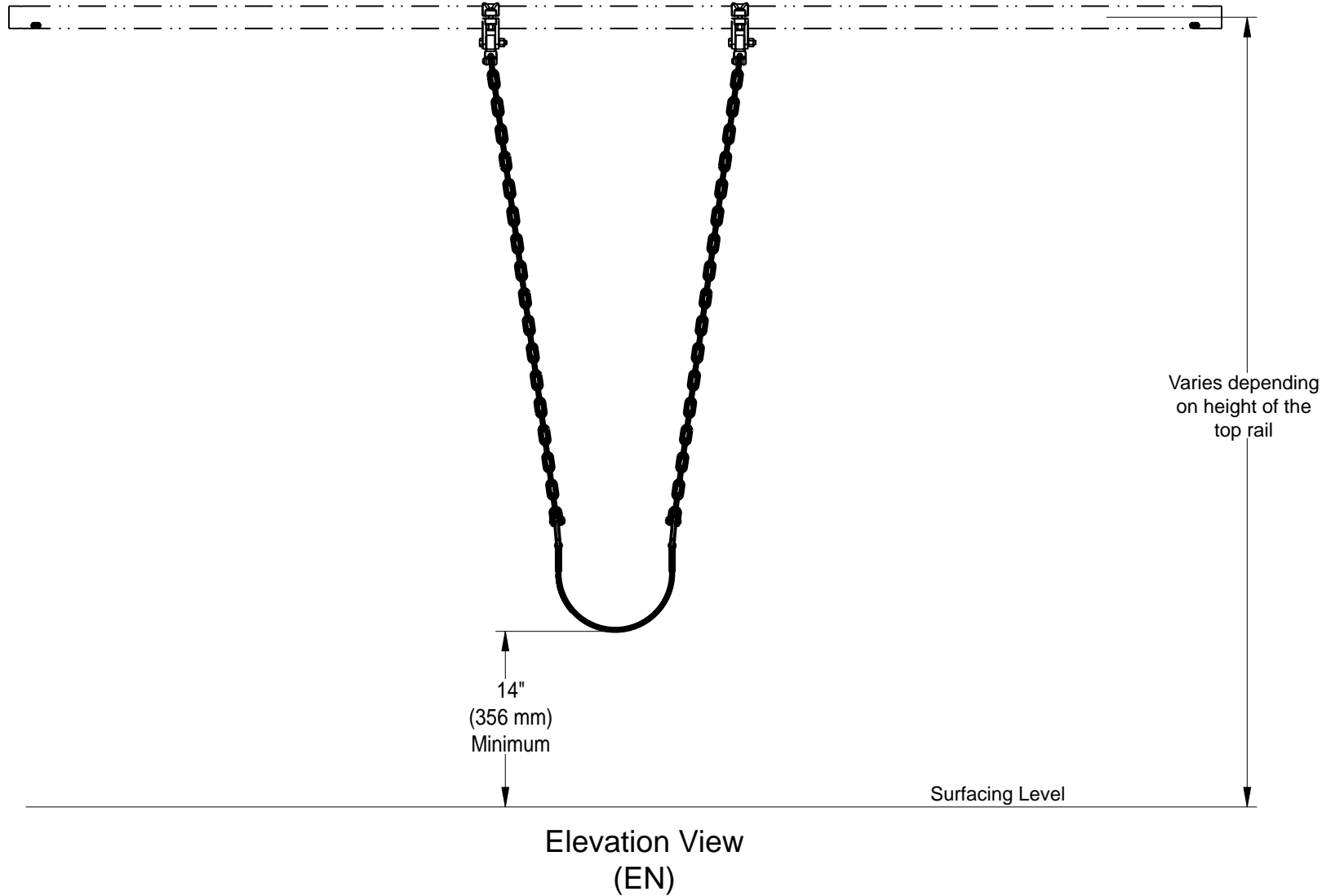


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



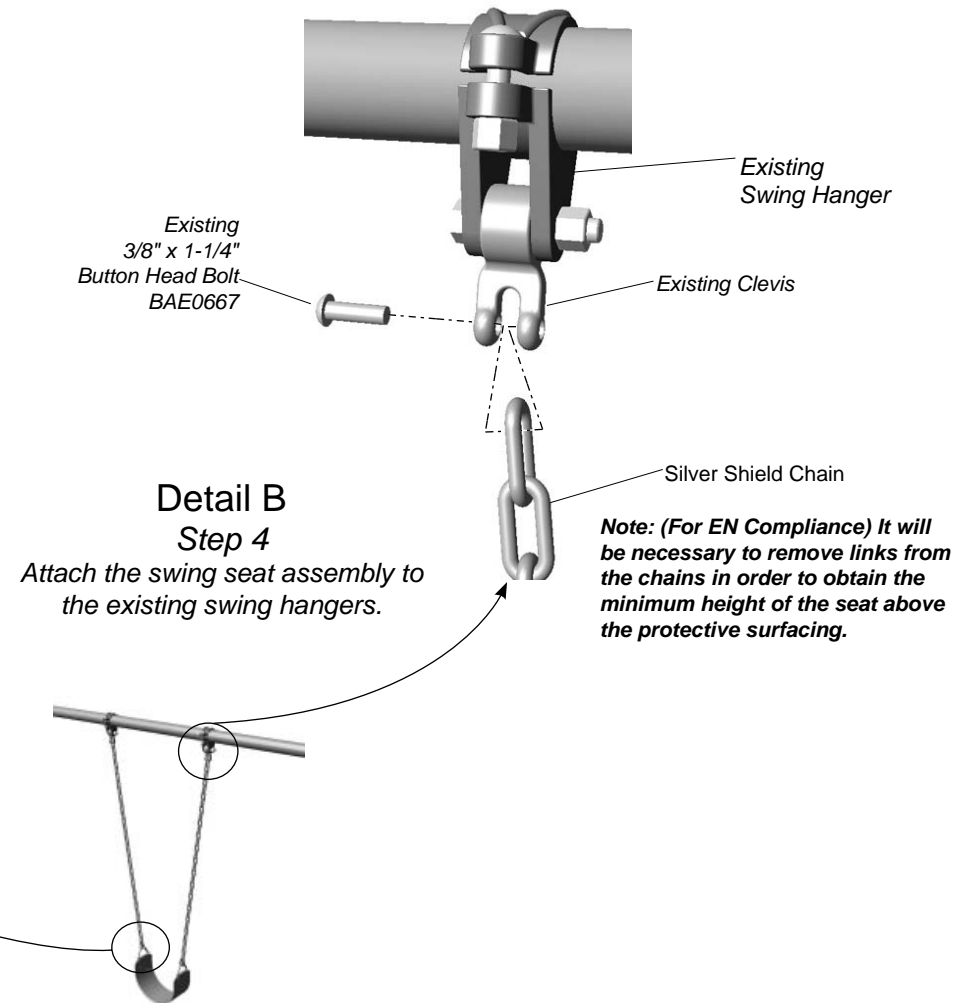
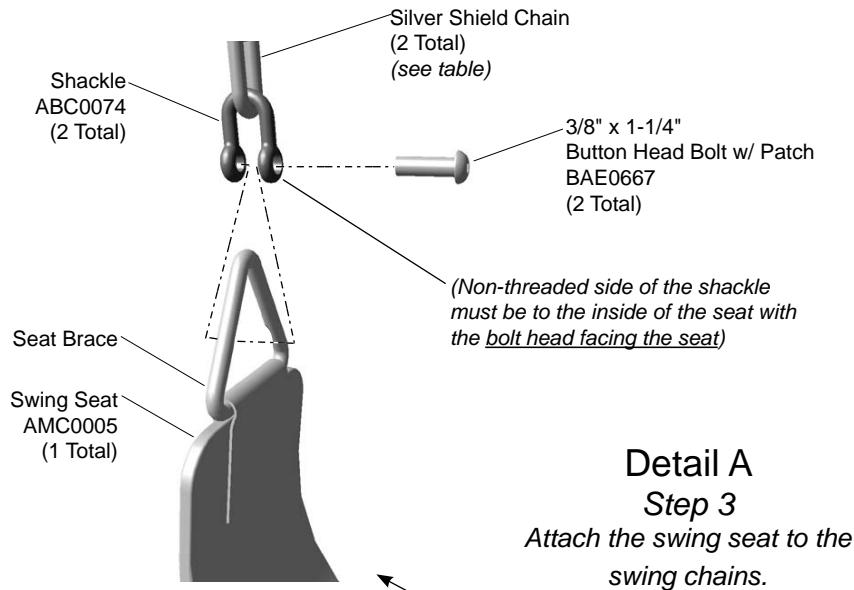
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Weight: See table below
 Use Zone: Refer to the swing frame instructions
 User Group: Ages 2 - 5 years

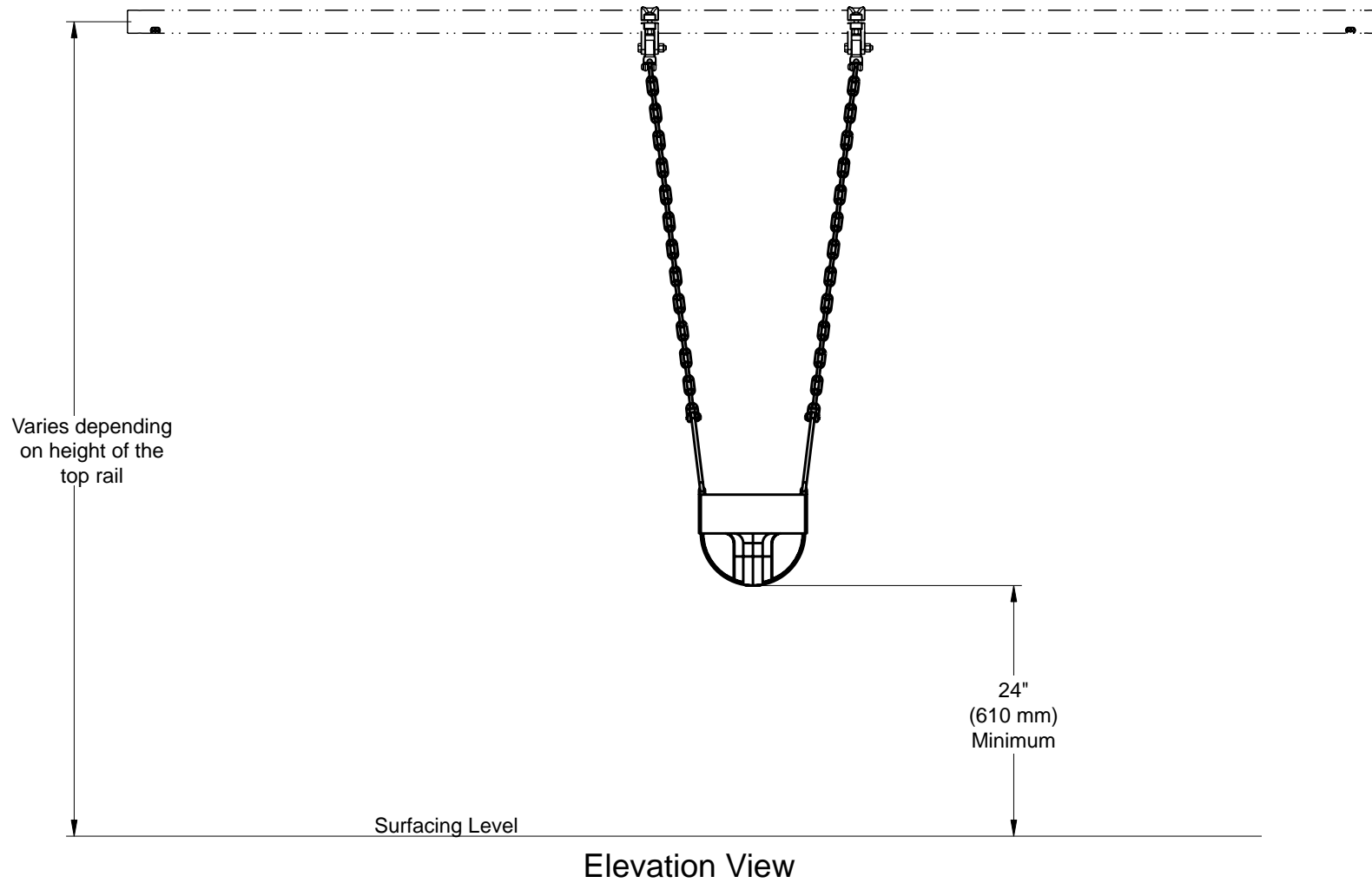
Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

ICON KEY



Fully Tighten
Hardware

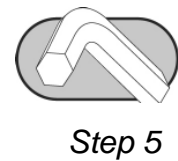
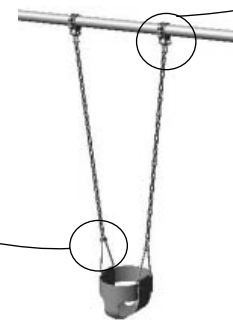
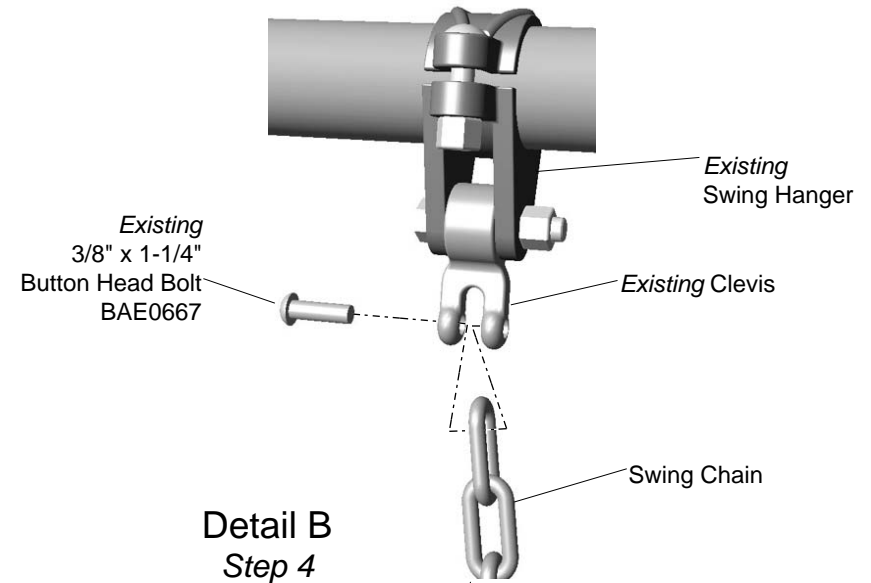
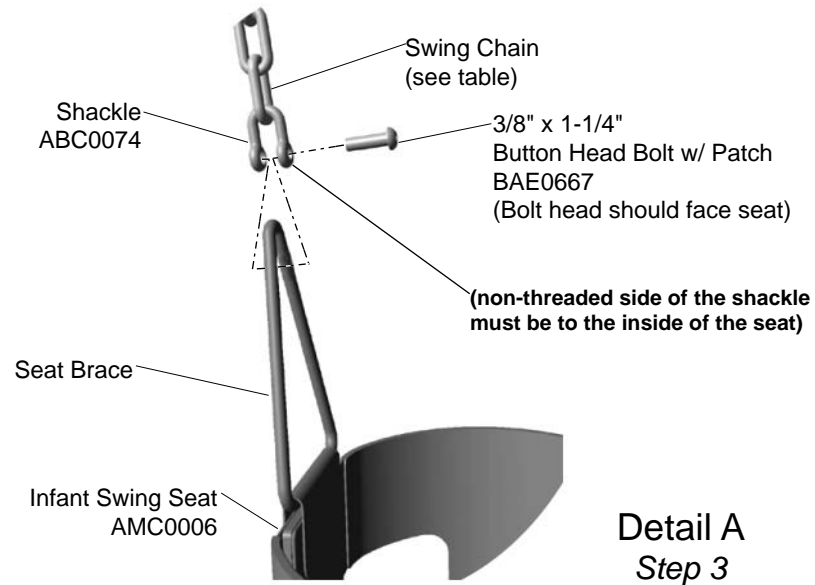
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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intentionally left blank.

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



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www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

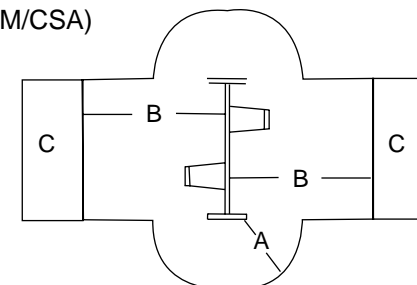
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

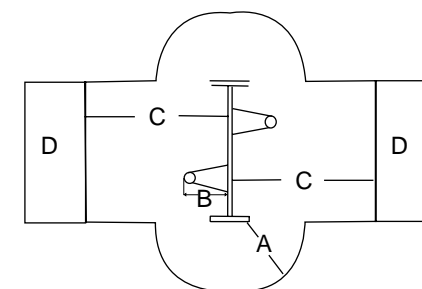
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

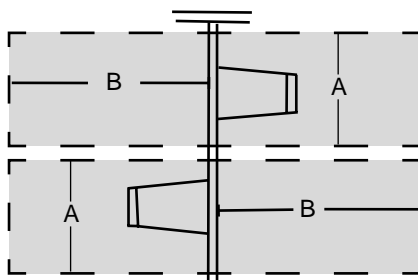
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

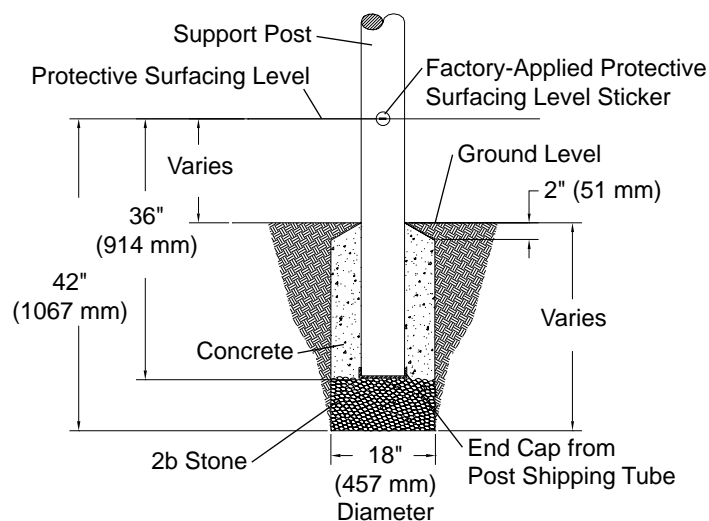
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

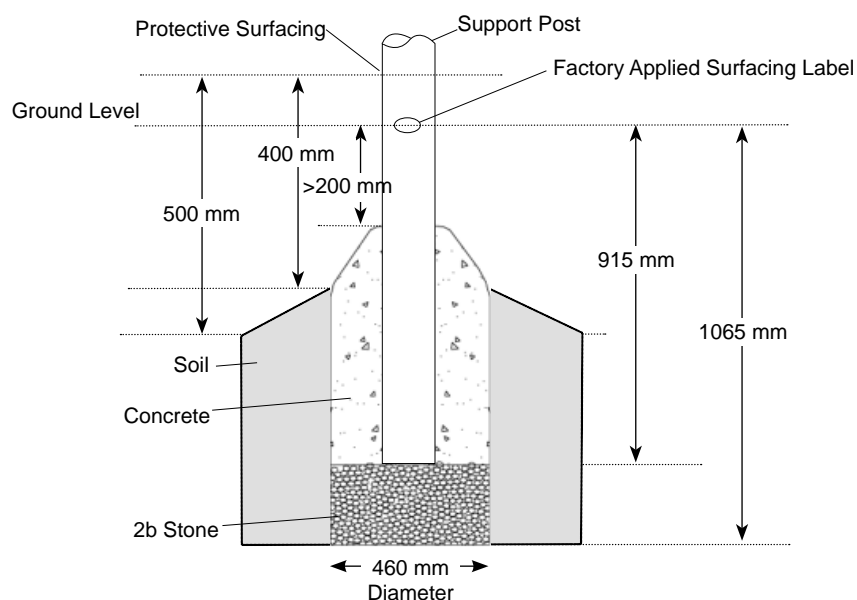
Installation Instructions



Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail Support Post (EN)



Assembly View (representative model)

Installation Instructions




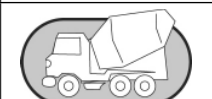



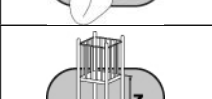
Playworld Systems® Model XX0287
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

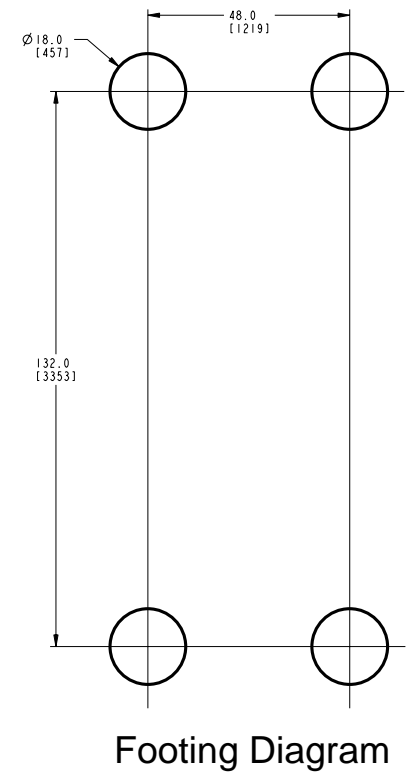
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Page 6 of 14

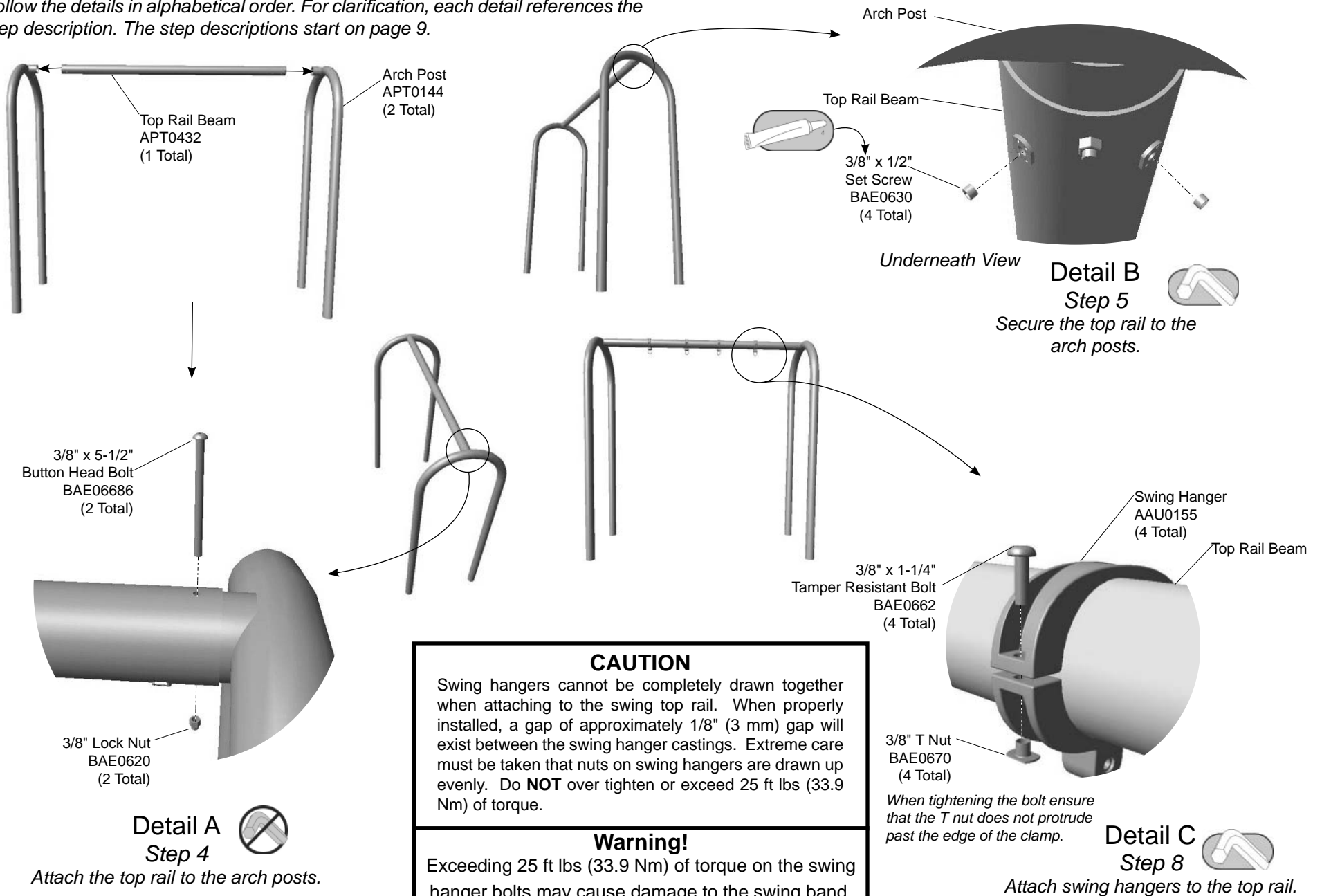
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

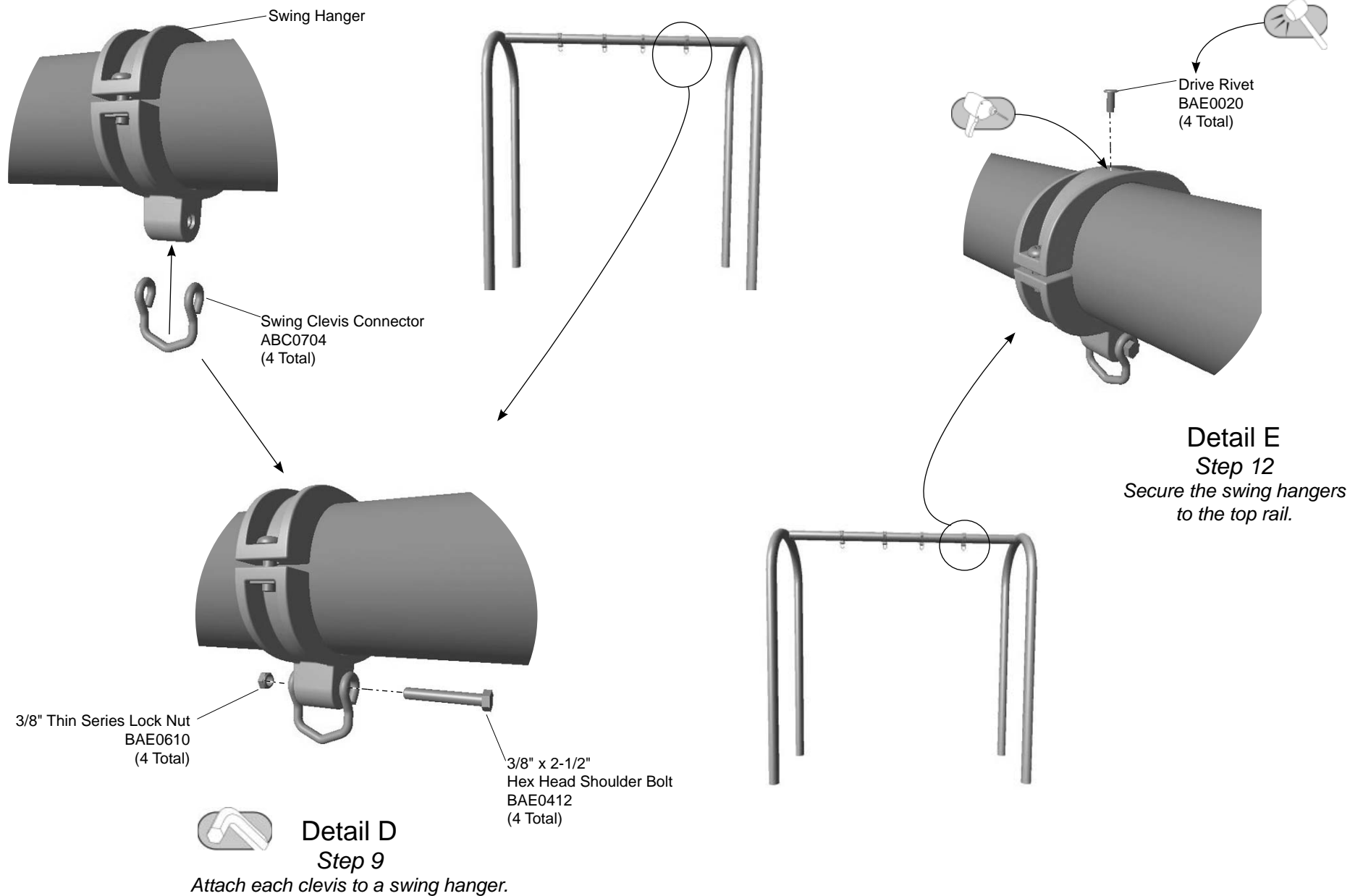


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING
8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1



Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

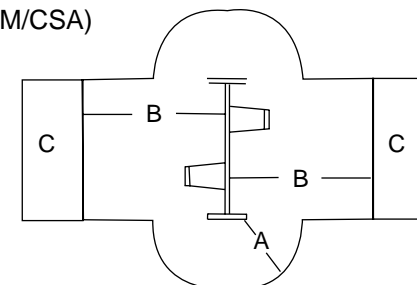
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

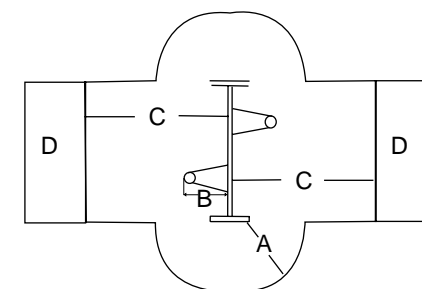
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

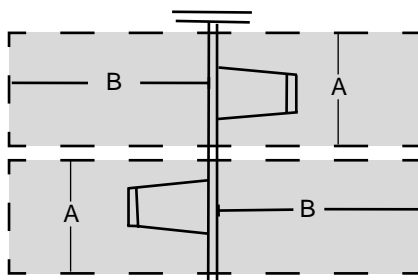
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

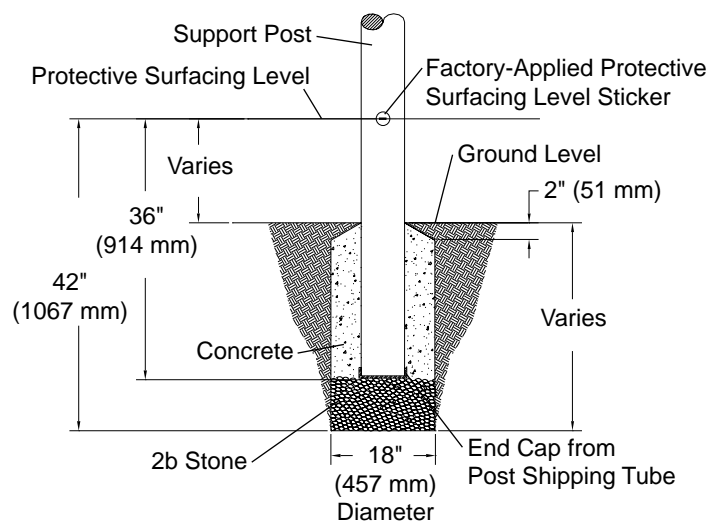
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

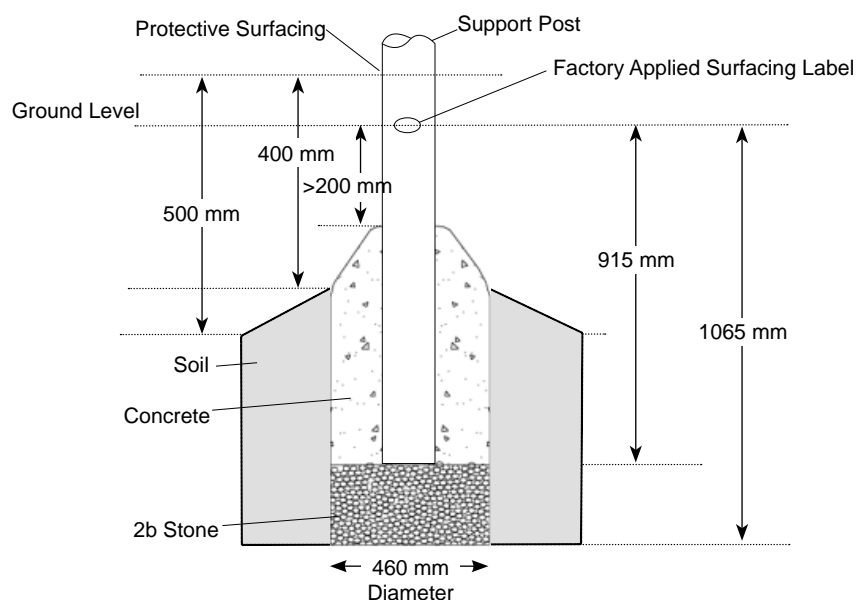
Installation Instructions



Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail Support Post (EN)



Assembly View

Installation Instructions


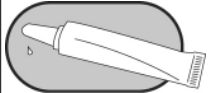

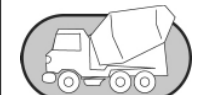



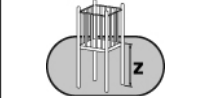
Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 2 man-hours
Weight: *156.2 lbs. (70,3 kg)
Concrete Required: 0.24 cubic yard (0,18 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

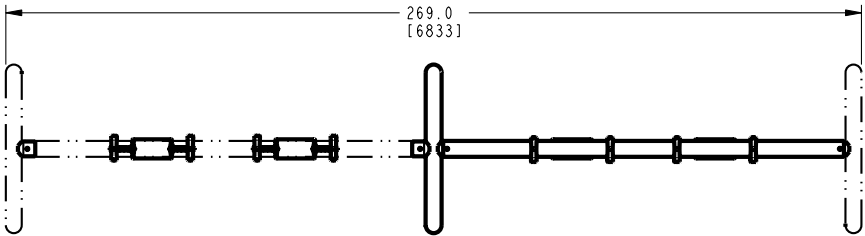
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

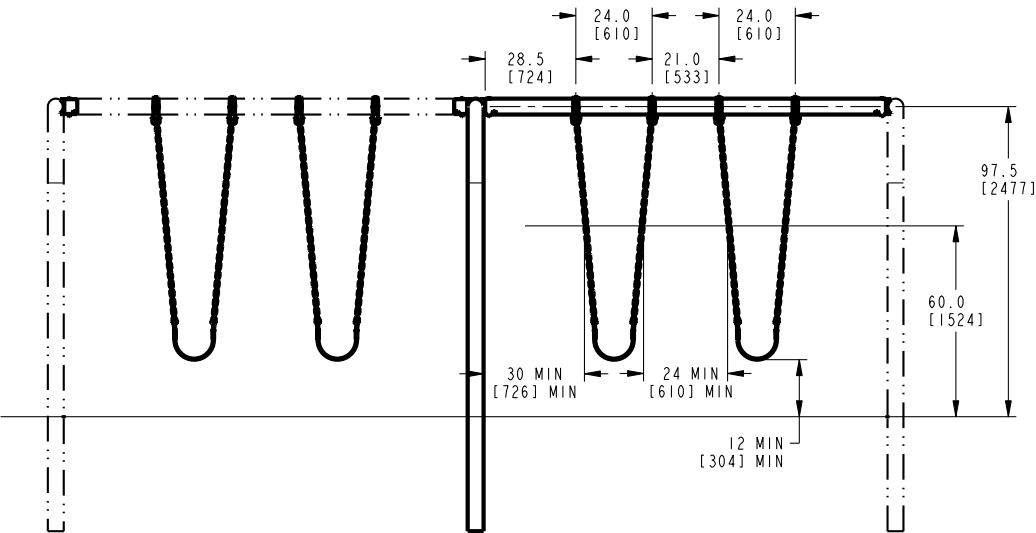
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

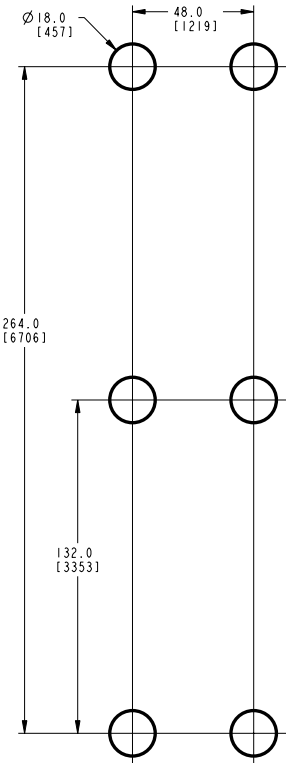
Top View



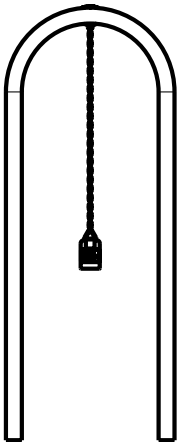
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

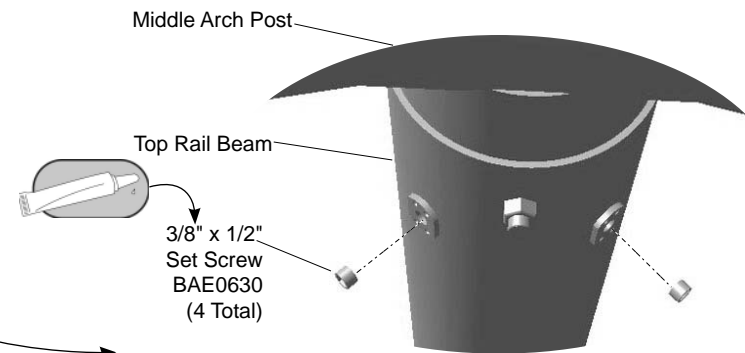
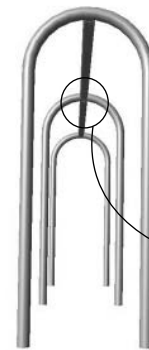
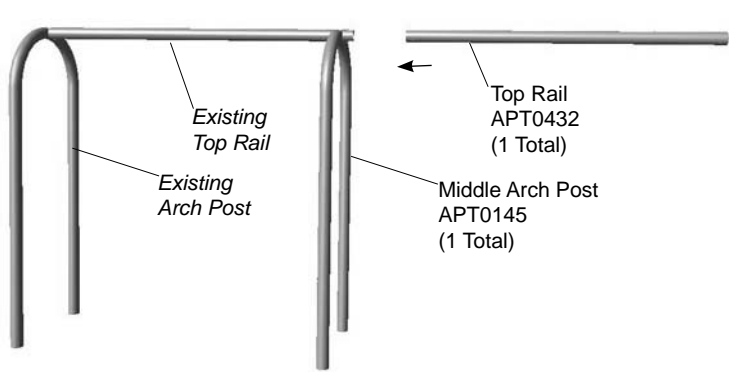


Footing Diagram



Installation Instructions

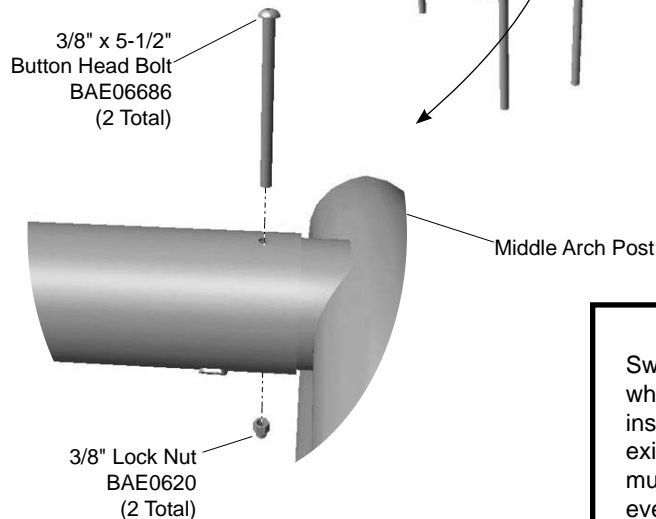
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

Detail B Step 7

Secure the top rails to the middle arch post.



Detail A Step 5

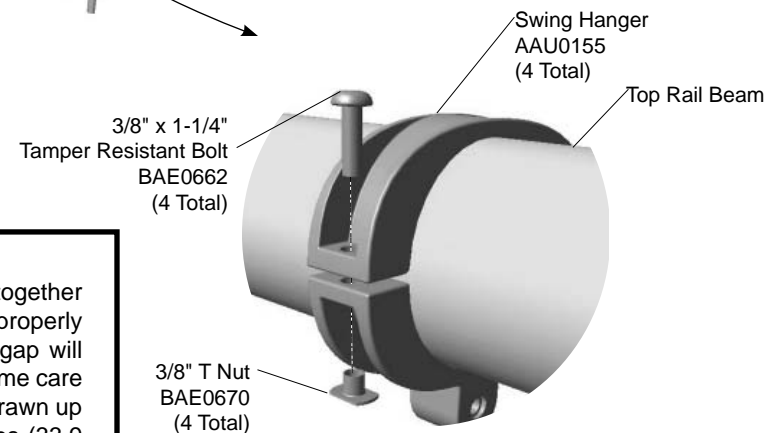
Attach both top rails (new and existing) to the middle arch support.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



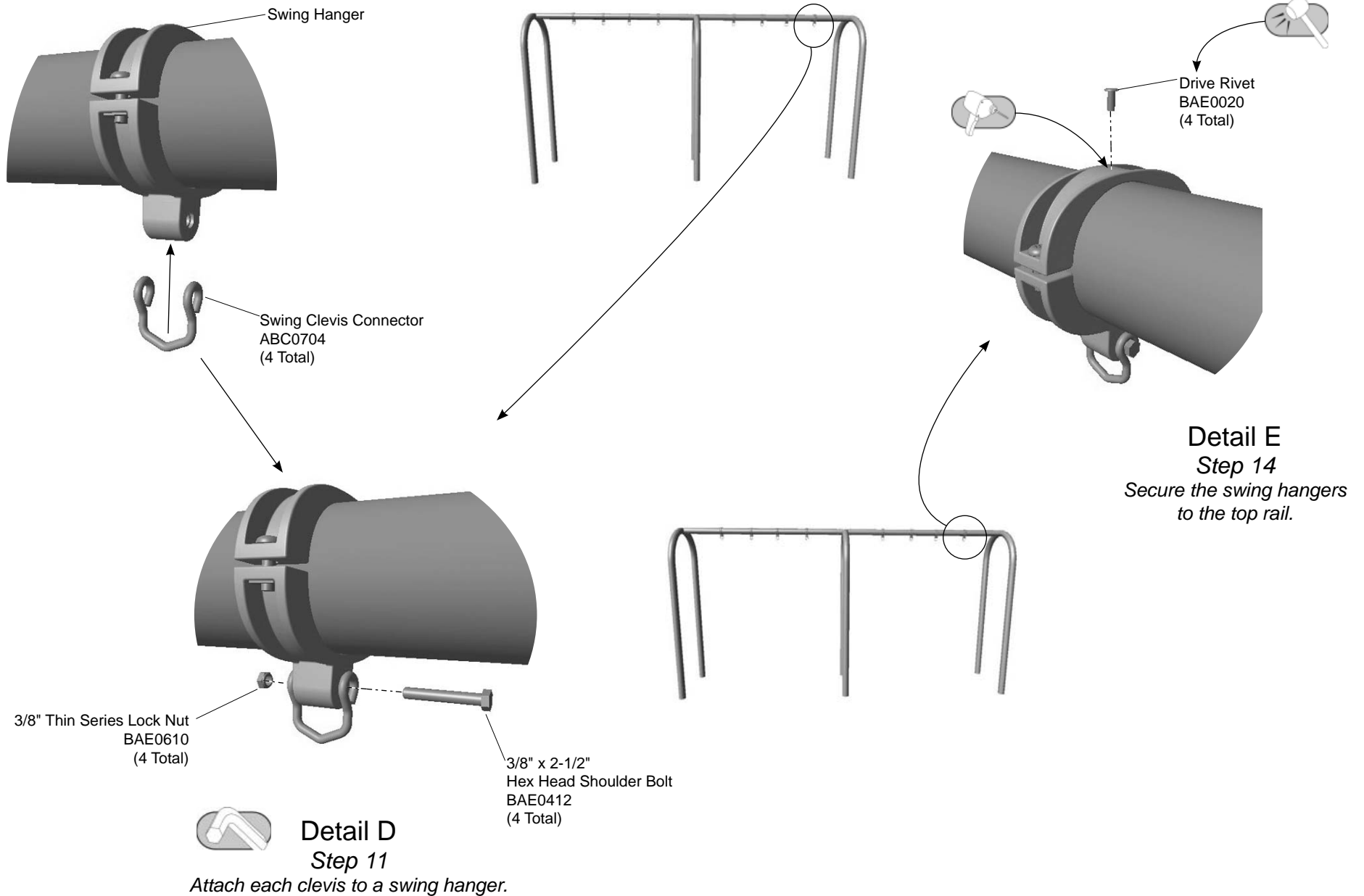
When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C Step 10

Attach swing hangers to the top rail.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1



Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.

Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

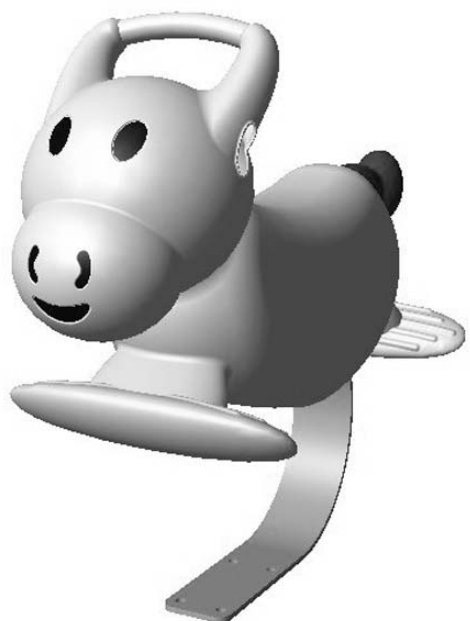
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

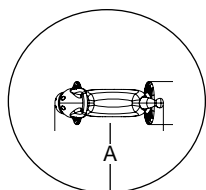
Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____



Assembly View (representative structure)

Spring Rider Use Zones
A = ASTM: 72 in. (1829 mm)
 CSA: 1800 mm
 EN: 1000 mm



Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems® Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568
 Cow, Horse, Ladybug, and Bee Spring Rider
 With and Without Sound

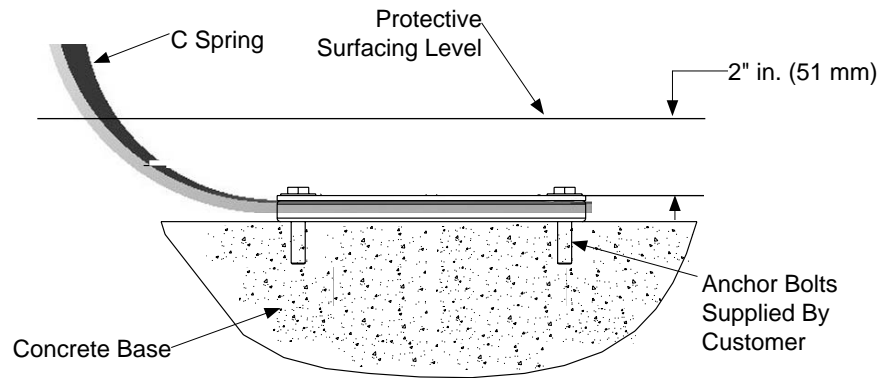
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 Weight: (refer to table on page 3)
 Use Zone: Refer to the information below
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



C Spring Surface Mount Footing Detail

FOOTING NOTES

- Footing size may vary due to local soil and weather conditions.
- The base of the footing must be below frost line.

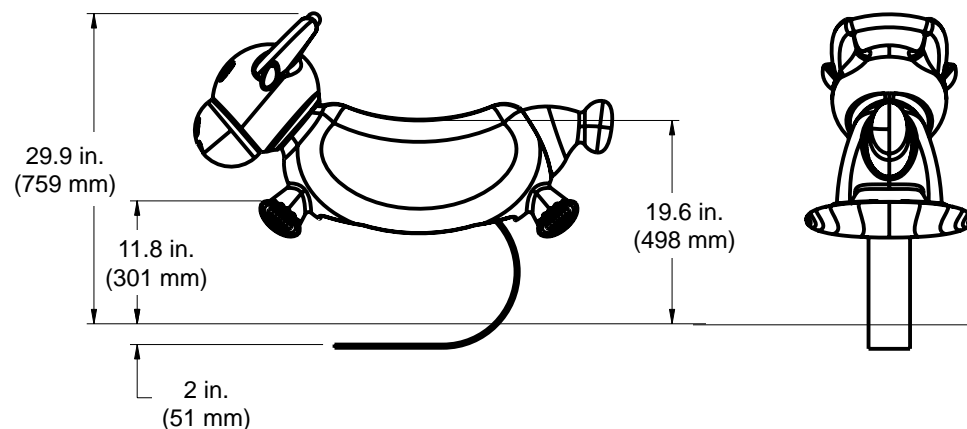
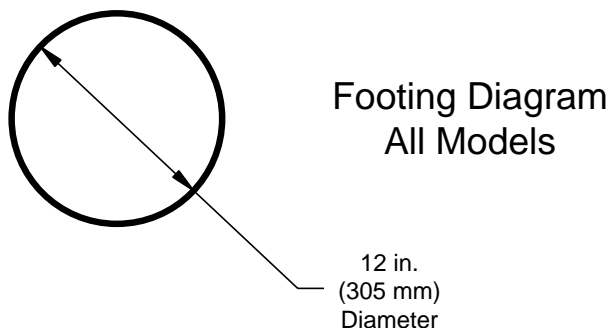
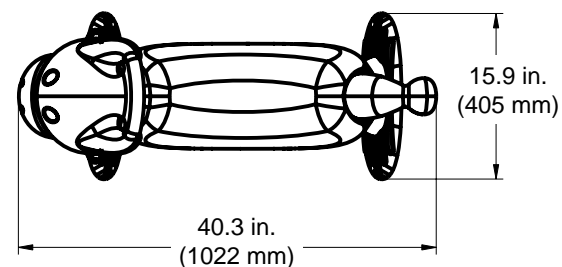
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Model	Animal	Weight
ZZXX0561	Cow	67.2 lbs. (30,5 kg)
ZZXX0562	Cow w/ Sound	69.7 lbs. (31,7 kg)
ZZXX0563	Horse	68.6 lbs. (31,2 kg)
ZZXX0564	Horse w/ Sound	71.2 lbs. (32,4 kg)
ZZXX0565	Ladybug	65.4 lbs. (29,7 kg)
ZZXX0566	Ladybug w/ Sound	68 lbs. (30,9 kg)
ZZXX0567	Bee	66.7 lbs. (30,3 kg)
ZZXX0568	Bee w/ Sound	69.3 lbs. (31,5 kg)

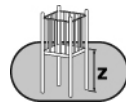


Top View



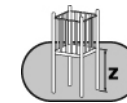
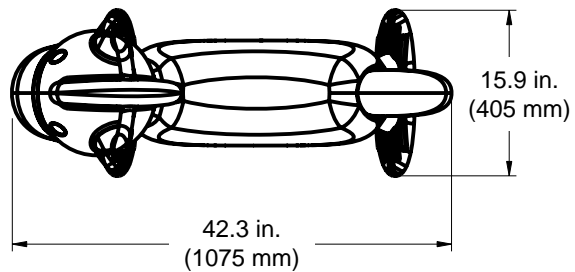
Elevation Views
XX0561 & XX0562

Installation Instructions



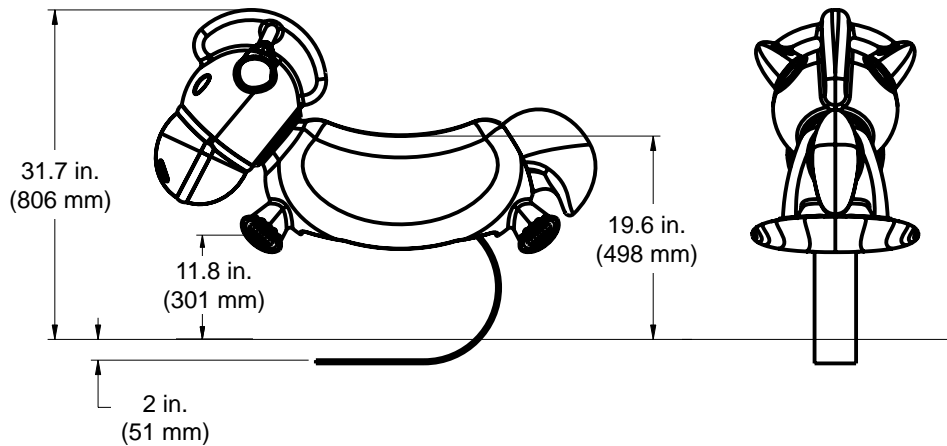
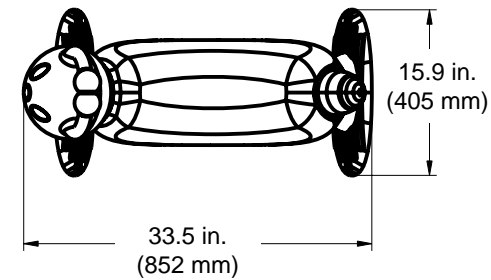
19.6" (498 mm)

Top View

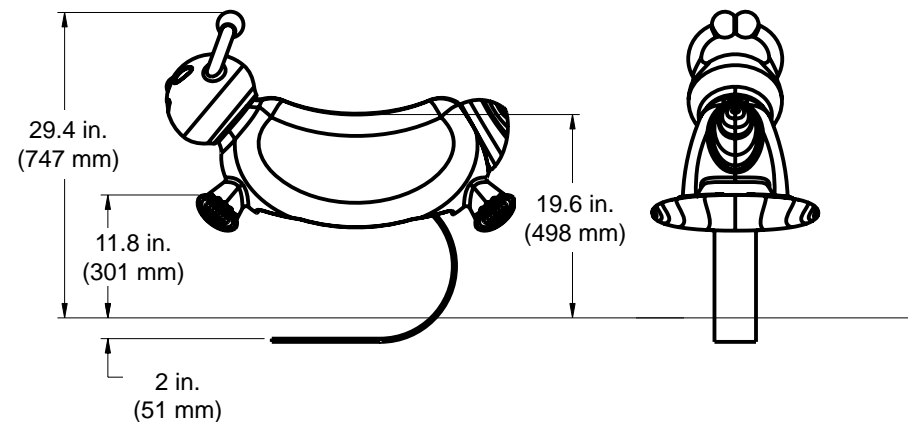


19.6" (498 mm)

Top View



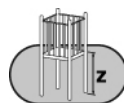
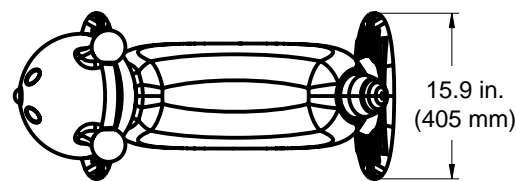
Elevation Views
XX0563 & XX0564



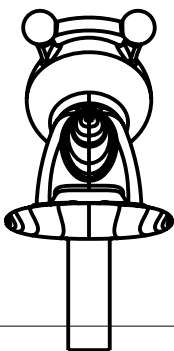
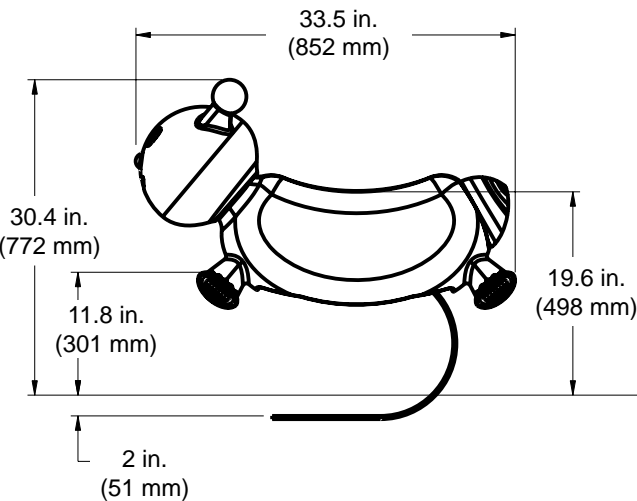
Elevation Views
XX0565 & XX0566

Installation Instructions

Top View



19.6" (498 mm)

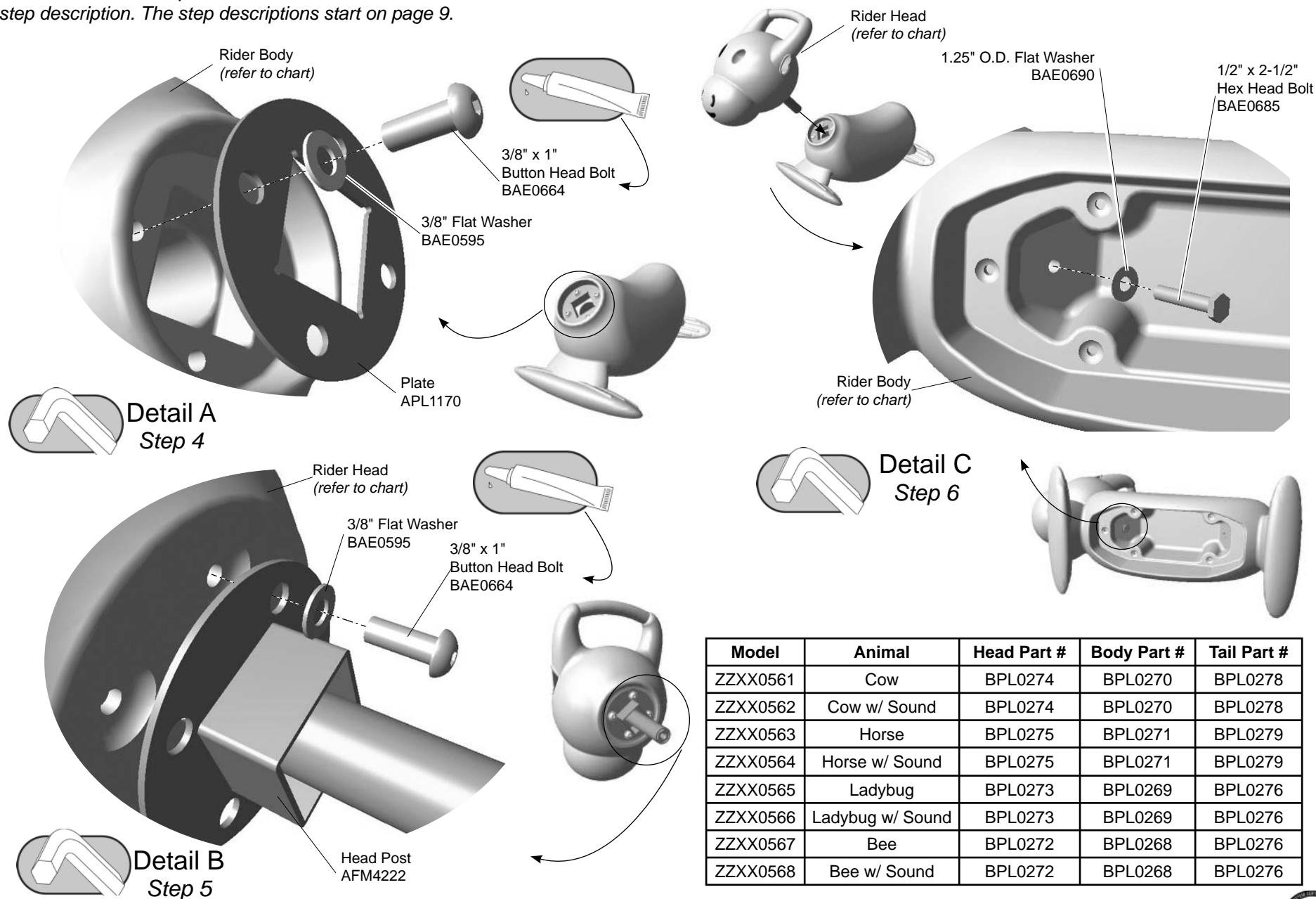


Elevation Views
XX0567 & XX0568

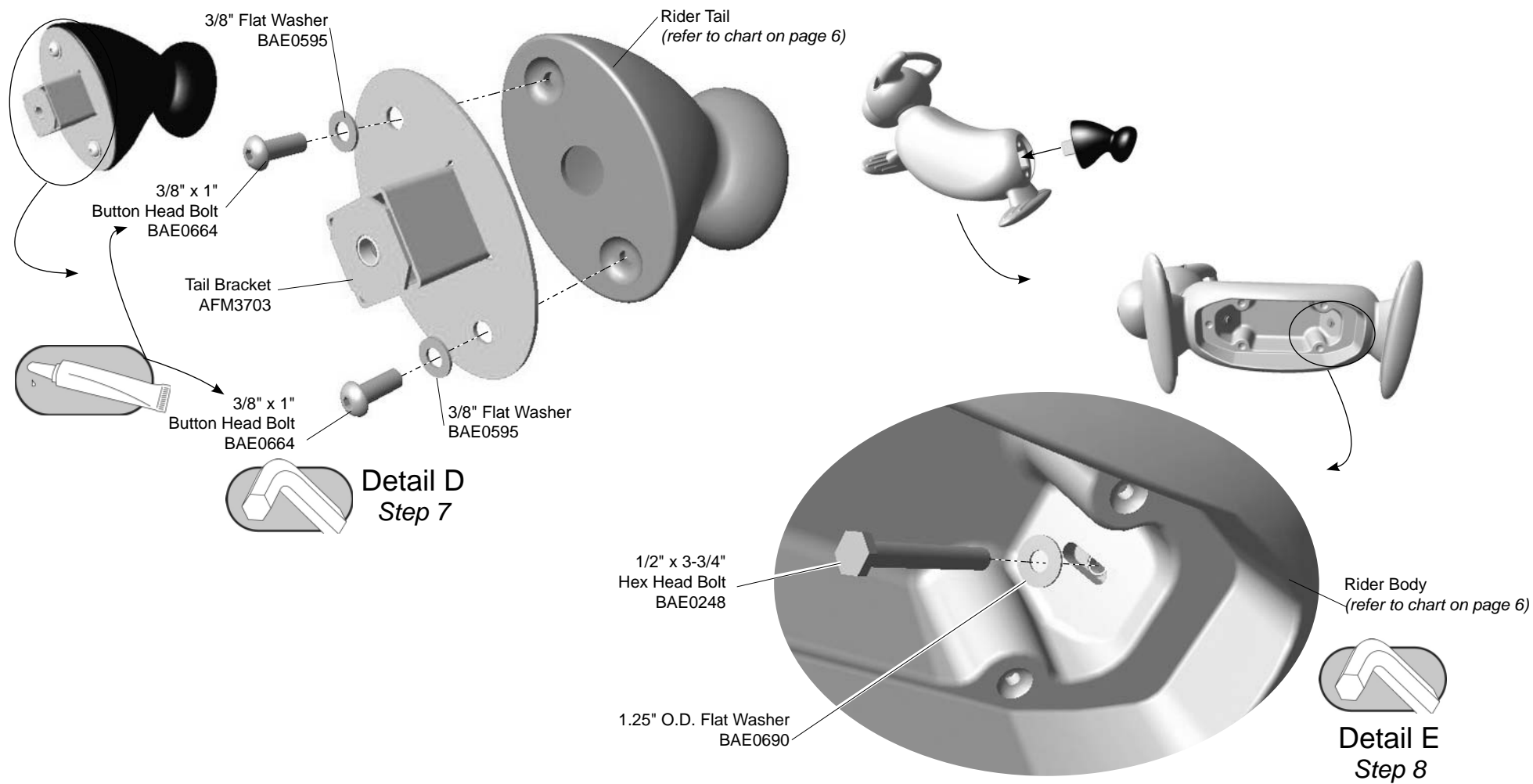


Installation Instructions

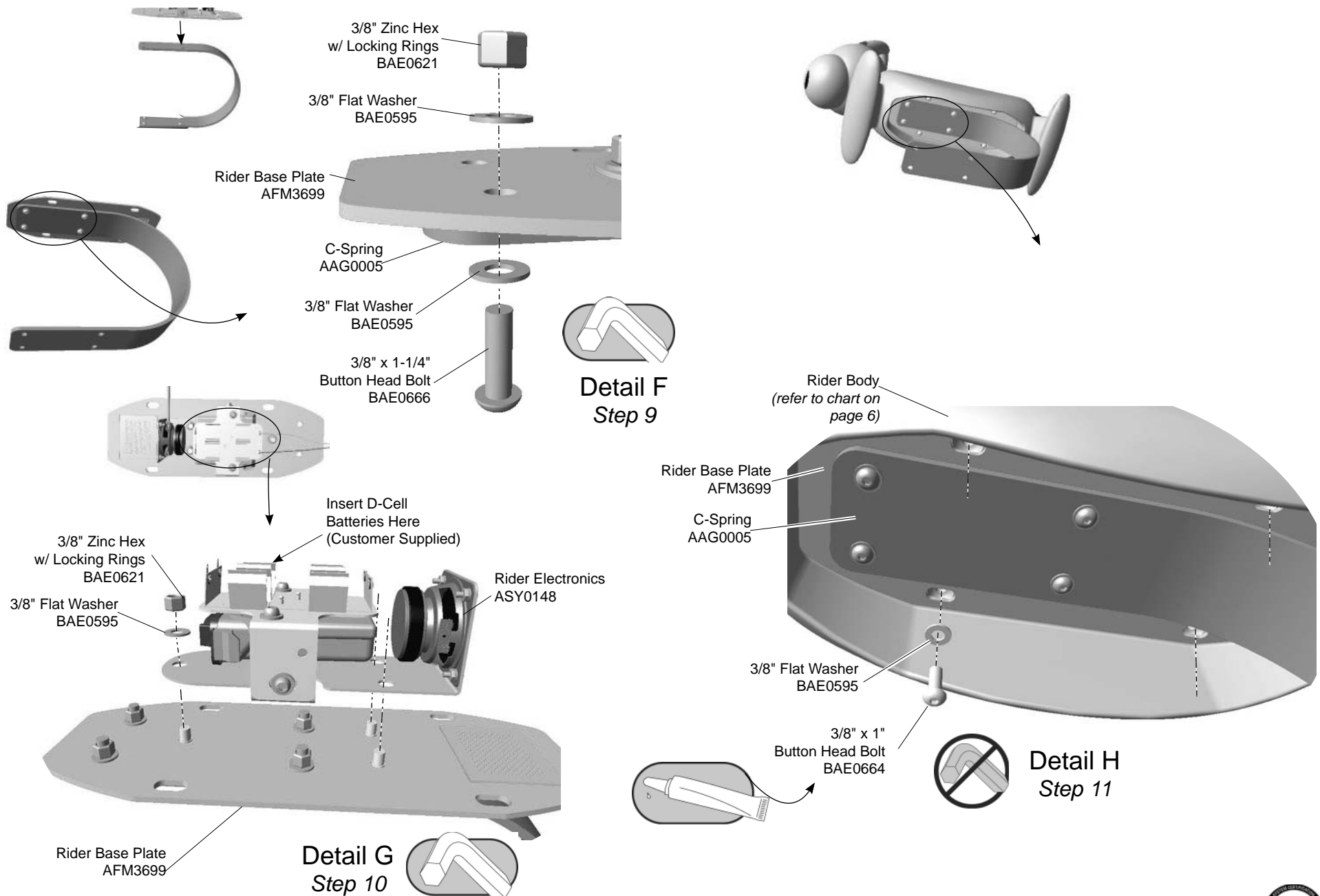
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Prepare footings as shown in the **C-Spring Footing Detail** on page 2 of this document.

Note: Heads and tails can be interchanged with body. Refer to the chart on page 6 to reference your specific parts.

Attach the plate to the rider body.

__Step 4: Attach the plate to the rider body. See **Detail A**. Select the plate, the rider body, and the appropriate hardware. There are (4) four connections. Place the plate in the indent in the neck area of the body and align the holes. Attach as shown.

Attach the head post to the rider head.

__Step 5: Attach the head post to the rider head. See **Detail B**. Select the head post, the rider head, and the appropriate hardware. There are (4) four connections. Place the post in the indent at the bottom of the head and align the holes. Attach as shown.

Attach the head to the body.

__Step 6: Attach the head to the body. See **Detail C**. Select the head assembly, the body assembly, and the appropriate hardware. There is (1) one connection. Insert the head assembly into the body assembly. Insert a bolt up through the rider body and thread into the head post. Tighten the connection until there is no gap between the head and the body.

Assemble the tail.

__Step 7: Assemble the tail. See **Detail D**. Select the tail, the tail bracket, and the appropriate hardware. There are (2) two connections. Align the tail bracket with the holes in the tail and attach as shown.

Attach the tail to the body.

__Step 8: Attach the tail to the body. See **Detail E**. Select the tail assembly and the appropriate hardware. There is (1) one connection. Insert the tail assembly into the body assembly. Insert a bolt up through the rider body and thread into the tail bracket. Tighten the connection until there is no gap between the tail and the body.

Attach the base plate to the C-spring.

__Step 9: Attach the base plate to the C-spring. See **Detail F**. Select the appropriate hardware. There are (4) four connections. Place the base plate onto the C-spring. Align the inner holes on the base plate with the holes in the C-spring. Attach as shown.

Note: Skip *Step 10* if you are not installing a model with sounds.

Attach the electronics to the base plate.

__Step 10: Attach the electronics to the base plate. See **Detail G**. Select the electronics, the base plate, and the appropriate hardware. There are (3) three connections. Insert the electronic panel onto the pegs on the base plate. Attach as shown.

Important Note: Insert (4) four D-cell batteries into the sound electronics before installation. Batteries are sold separately. Battery life is approximately one (1) year. Maintenance should be scheduled to replace the batteries accordingly.

Note: Sound electronics are factory ready. No electrical connections will need to be made.

Attach the rider body assembly to the base plate.

__Step 11: Attach the rider body assembly to the base plate. See **Detail H**. Select the appropriate hardware. There are (4) four connections. Lower the rider body assembly onto the base plate and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Installation Instructions

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

XX0561 - COW SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1

XX0562 - COW SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1

XX0563 - HORSE SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0271	HORSE BODY	1
BPL0275	HORSE HEAD	1
BPL0279	HORSE TAIL	1

XX0564 - HORSE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0271	HORSE BODY	1
BPL0275	HORSE HEAD	1
BPL0279	HORSE TAIL	1

XX0565 - LADYBUG SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0269	LADYBUG BODY	1
BPL0273	LADYBUG HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0566 - LADYBUG SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0269	LADYBUG BODY	1
BPL0273	LADYBUG HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

Installation Instructions

XX0567 - BEE SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0568 - BEE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3 3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" ID x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1



Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Sound Unit

- Inspect for proper operation and replace batteries as needed.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

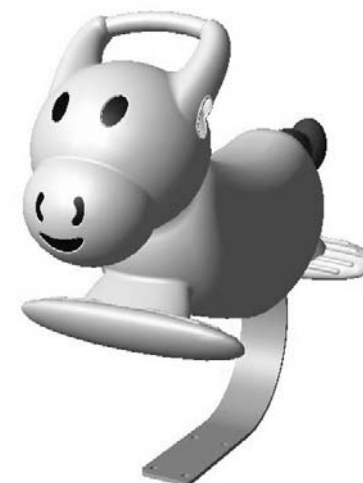
Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568 Cow, Horse, Ladybug, and Bee Spring Rider With and Without Sound



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect spring connections for tightness.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect sound unit for proper operation and replace batteries as needed.	Medium			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



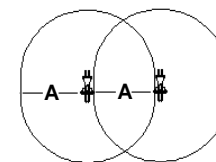
Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 72 inches (1829 mm). This use zone may be overlapped by the use zone of other rocking/springing intended for sitting or stationary equipment when the seat or designated play surface is 30 inches (762 mm) or less from the protective surfacing level. See diagram.
- **CSA compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 1800 mm. The designated play surface, or seating surface must be 700 mm or less from the level of the protective surfacing. This use zone may be overlapped by the use zones of adjacent play equipment. See diagram.
- **EN Compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 1000 mm. This use zone may be overlapped by the use zone of other rocking/springing equipment.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

Rocking/Springing Equipment
Intended for Sitting Use Zones

A = ASTM: 72 in. (1829 mm)
CSA: 1800 mm
EN: 1000 mm



Placement of multiple Spring Riders

- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**

- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

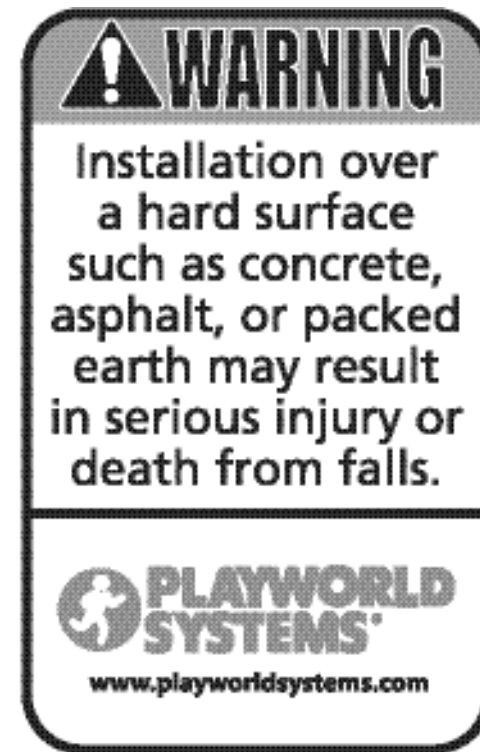
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable specifications in your area appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label

TENNY PARK

PLAYGROUND MANUFACTURER'S INSTALLATION INFORMATION

TENNEY PARK

MADISON, WI

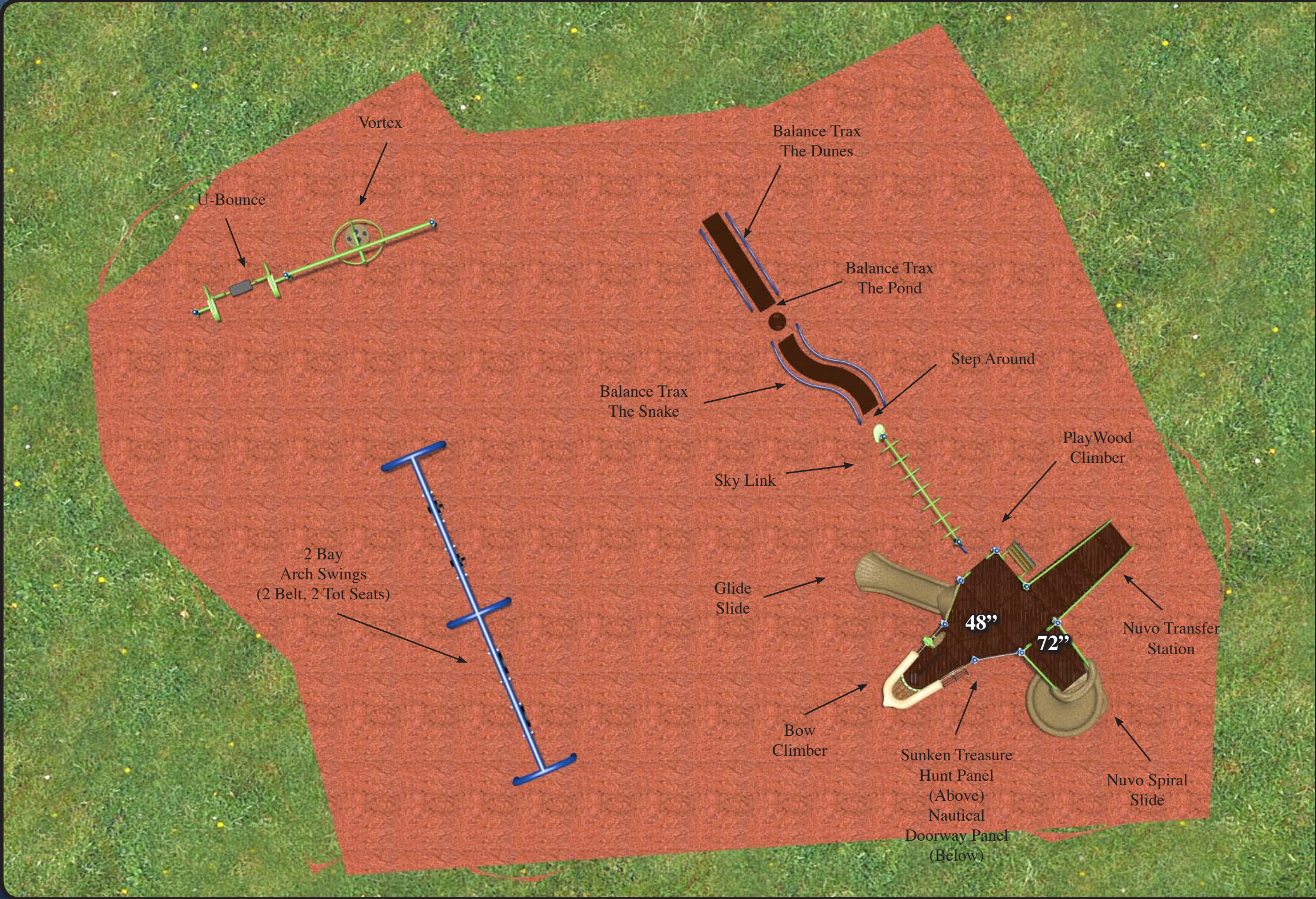
OPTION #2

LR
LEE
RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT
P.O. Box 93
Cambridge, WI 53523
Phone: (800) 775-8937
Fax: (608) 423-7655
email: info@leerecreation.com
www.leerecreation.com



TENNEY PARK

MADISON, WI OPTION #2



809 Bluebird Pass
Cambridge, WI 53523
TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW111014

Use Zone:

of Users: 44

of Active Play Events: 22

Age: 5 to 12

Colors Shown:



Blue



Brownstone



Lime



*Playground Supervision Required



PROJECT NO: TENNEY.LEE	REV: C	DATE: 27-FEB-15
	SYSTEM: CHALLENGERS	SCALE: 1/8" = 1'-0"
FOOTING PLAN		DRAWN BY: DANA GRUBBS

LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523



TENNEY

FOOTING LEGEND

- = COMPONENT FOOTING (DETAIL 3)
- = SPIRAL SLIDE CENTER POST FOOTING (DETAIL 1)
- = SUPPORT POST FOOTING (DETAIL 1 or 4)
(112" (2845mm) INDICATES POST LENGTH)
- = CANTILEVER, T1 POST AND COMPONENT POST FOOTING (DETAIL 2)
(ZZCH1850 INDICATES PART NUMBER)
- = GROUND ZERO POST FOOTING (DETAIL 2)
(144" (3658mm) INDICATES POST LENGTH)



Installation Instructions

Challengers® Models CH0007, CH0009, CH0018,
CH0028, CH0038, CH0048, CH0058, CH0068,
CH0076, CH0256, CH0258
Steel Support Post w/ Cap
100 in. (2540 mm) to 224 in. (5690 mm)

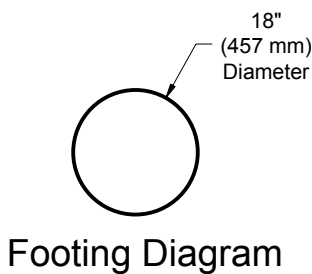
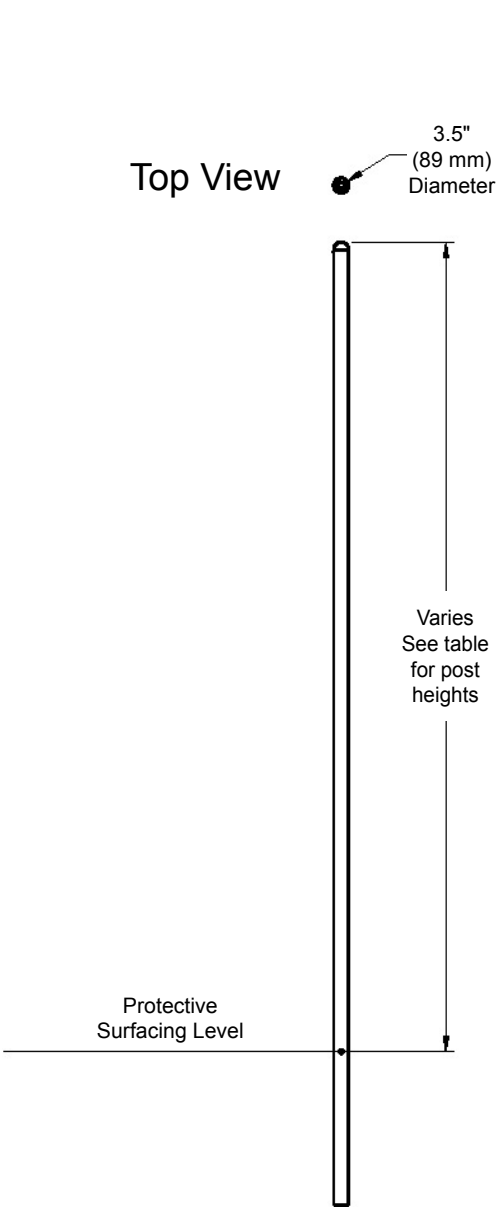


Assembly View *(representative model)*

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.13 cubic yard (0,10 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZCH0007	100" (2540 mm)	31.6 lbs. (14,4 kg)
ZZCH0009	112" (2845 mm)	35.4 lbs. (16,1 kg)
ZZCH0018	124" (3150 mm)	38.9 lbs. (17,7 kg)
ZZCH0028	136" (3454 mm)	43.5 lbs. (19,8 kg)
ZZCH0038	148" (3759 mm)	47.1 lbs. (21,2 kg)
ZZCH0048	160" (4064 mm)	50.2 lbs. (22,8 kg)
ZZCH0058	172" (4369 mm)	56 lbs. (25,4 kg)
ZZCH0068	184" (4674 mm)	57.1 lbs. (26 kg)
ZZCH0076	200" (5080 mm)	65 lbs. (29 kg)
ZZCH0256	212" (5385 mm)	62 lbs. (28,2 kg)
ZZCH0258	224" (5690 mm)	65.5 lbs. (29,8 kg)



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

CH0007 - STEEL SUPPORT POST w/ CAP 100 in. (2540 mm)

PART NO.	DESCRIPTION	QTY.
CAP5036	POST - 3-1/2" O.D. x 100" STEEL w/ CAP & LBL AT 36"	1

CH0009 - STEEL SUPPORT POST w/ CAP 112 in. (2845 mm)

PART NO.	DESCRIPTION	QTY.
CAP5038	POST - 3-1/2" O.D. x 112" STEEL w/ CAP & LBL AT 36"	1

CH0018 - STEEL SUPPORT POST w/ CAP 124 in. (3150 mm)

PART NO.	DESCRIPTION	QTY.
CAP5040	POST - 3-1/2" O.D. x 124" STEEL w/ CAP & LBL AT 36"	1

CH0028 - STEEL SUPPORT POST w/ CAP 136 in. (3454 mm)

PART NO.	DESCRIPTION	QTY.
CAP5042	POST - 3-1/2" O.D. x 136" STEEL w/ CAP & LBL AT 36"	1

CH0038 - STEEL SUPPORT POST w/ CAP 148 in. (3759 mm)

PART NO.	DESCRIPTION	QTY.
CAP5044	POST - 3-1/2" O.D. x 148" STEEL w/ CAP & LBL AT 36"	1

CH0048 - STEEL SUPPORT POST w/ CAP 160 in. (4064 mm)

PART NO.	DESCRIPTION	QTY.
CAP5046	POST - 3-1/2" O.D. x 160" STEEL w/ CAP & LBL AT 36"	1

CH0058 - STEEL SUPPORT POST w/ CAP 172 in. (4369 mm)

PART NO.	DESCRIPTION	QTY.
CAP5048	POST - 3-1/2" O.D. x 172" STEEL w/ CAP & LBL AT 36"	1

CH0068 - STEEL SUPPORT POST w/ CAP 184 in. (4674 mm)

PART NO.	DESCRIPTION	QTY.
CAP5050	POST - 3-1/2" O.D. x 184" STEEL w/ CAP & LBL AT 36"	1

CH0076 - STEEL SUPPORT POST w/ CAP 200 in. (5080 mm)

PART NO.	DESCRIPTION	QTY.
CAP5052	POST - 3-1/2" O.D. x 200" STEEL w/ CAP & LBL AT 36"	1

CH0256 - STEEL SUPPORT POST w/ CAP 212 in. (5385 mm)

PART NO.	DESCRIPTION	QTY.
CAP0420	POST - 3-1/2" O.D. x 212" STEEL w/ CAP & LBL AT 36"	1

CH0258 - STEEL SUPPORT POST w/ CAP 224 in. (5690 mm)

PART NO.	DESCRIPTION	QTY.
CAP0422	POST - 3-1/2" O.D. x 224" STEEL w/ CAP & LBL AT 36"	1



For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
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www.playworldsystems.com



Installation Instructions

Challengers® Models CH0007, CH0009, CH0018,
CH0028, CH0038, CH0048, CH0058, CH0068,
CH0076, CH0256, CH0258
Steel Support Post w/ Cap
100 in. (2540 mm) to 224 in. (5690 mm)

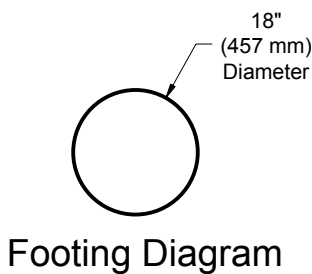
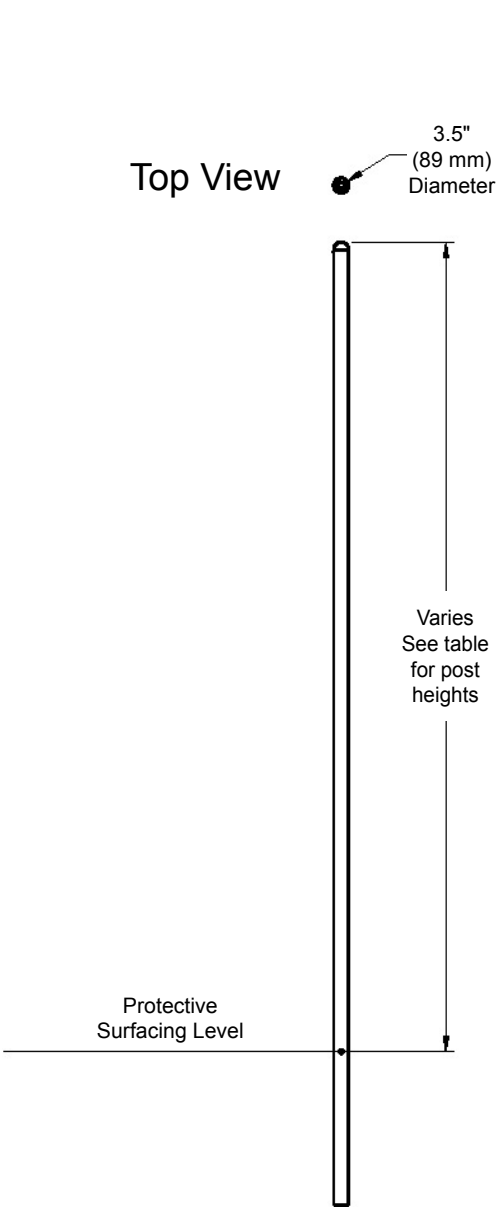


Assembly View (*representative model*)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.13 cubic yard (0,10 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZCH0007	100" (2540 mm)	31.6 lbs. (14,4 kg)
ZZCH0009	112" (2845 mm)	35.4 lbs. (16,1 kg)
ZZCH0018	124" (3150 mm)	38.9 lbs. (17,7 kg)
ZZCH0028	136" (3454 mm)	43.5 lbs. (19,8 kg)
ZZCH0038	148" (3759 mm)	47.1 lbs. (21,2 kg)
ZZCH0048	160" (4064 mm)	50.2 lbs. (22,8 kg)
ZZCH0058	172" (4369 mm)	56 lbs. (25,4 kg)
ZZCH0068	184" (4674 mm)	57.1 lbs. (26 kg)
ZZCH0076	200" (5080 mm)	65 lbs. (29 kg)
ZZCH0256	212" (5385 mm)	62 lbs. (28,2 kg)
ZZCH0258	224" (5690 mm)	65.5 lbs. (29,8 kg)



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

CH0007 - STEEL SUPPORT POST w/ CAP 100 in. (2540 mm)

PART NO.	DESCRIPTION	QTY.
CAP5036	POST - 3-1/2" O.D. x 100" STEEL w/ CAP & LBL AT 36"	1

CH0009 - STEEL SUPPORT POST w/ CAP 112 in. (2845 mm)

PART NO.	DESCRIPTION	QTY.
CAP5038	POST - 3-1/2" O.D. x 112" STEEL w/ CAP & LBL AT 36"	1

CH0018 - STEEL SUPPORT POST w/ CAP 124 in. (3150 mm)

PART NO.	DESCRIPTION	QTY.
CAP5040	POST - 3-1/2" O.D. x 124" STEEL w/ CAP & LBL AT 36"	1

CH0028 - STEEL SUPPORT POST w/ CAP 136 in. (3454 mm)

PART NO.	DESCRIPTION	QTY.
CAP5042	POST - 3-1/2" O.D. x 136" STEEL w/ CAP & LBL AT 36"	1

CH0038 - STEEL SUPPORT POST w/ CAP 148 in. (3759 mm)

PART NO.	DESCRIPTION	QTY.
CAP5044	POST - 3-1/2" O.D. x 148" STEEL w/ CAP & LBL AT 36"	1

CH0048 - STEEL SUPPORT POST w/ CAP 160 in. (4064 mm)

PART NO.	DESCRIPTION	QTY.
CAP5046	POST - 3-1/2" O.D. x 160" STEEL w/ CAP & LBL AT 36"	1

CH0058 - STEEL SUPPORT POST w/ CAP 172 in. (4369 mm)

PART NO.	DESCRIPTION	QTY.
CAP5048	POST - 3-1/2" O.D. x 172" STEEL w/ CAP & LBL AT 36"	1

CH0068 - STEEL SUPPORT POST w/ CAP 184 in. (4674 mm)

PART NO.	DESCRIPTION	QTY.
CAP5050	POST - 3-1/2" O.D. x 184" STEEL w/ CAP & LBL AT 36"	1

CH0076 - STEEL SUPPORT POST w/ CAP 200 in. (5080 mm)

PART NO.	DESCRIPTION	QTY.
CAP5052	POST - 3-1/2" O.D. x 200" STEEL w/ CAP & LBL AT 36"	1

CH0256 - STEEL SUPPORT POST w/ CAP 212 in. (5385 mm)

PART NO.	DESCRIPTION	QTY.
CAP0420	POST - 3-1/2" O.D. x 212" STEEL w/ CAP & LBL AT 36"	1

CH0258 - STEEL SUPPORT POST w/ CAP 224 in. (5690 mm)

PART NO.	DESCRIPTION	QTY.
CAP0422	POST - 3-1/2" O.D. x 224" STEEL w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

Installation Instructions

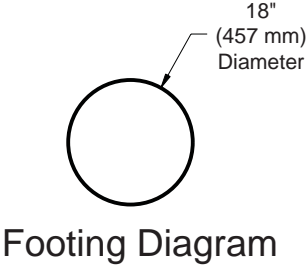
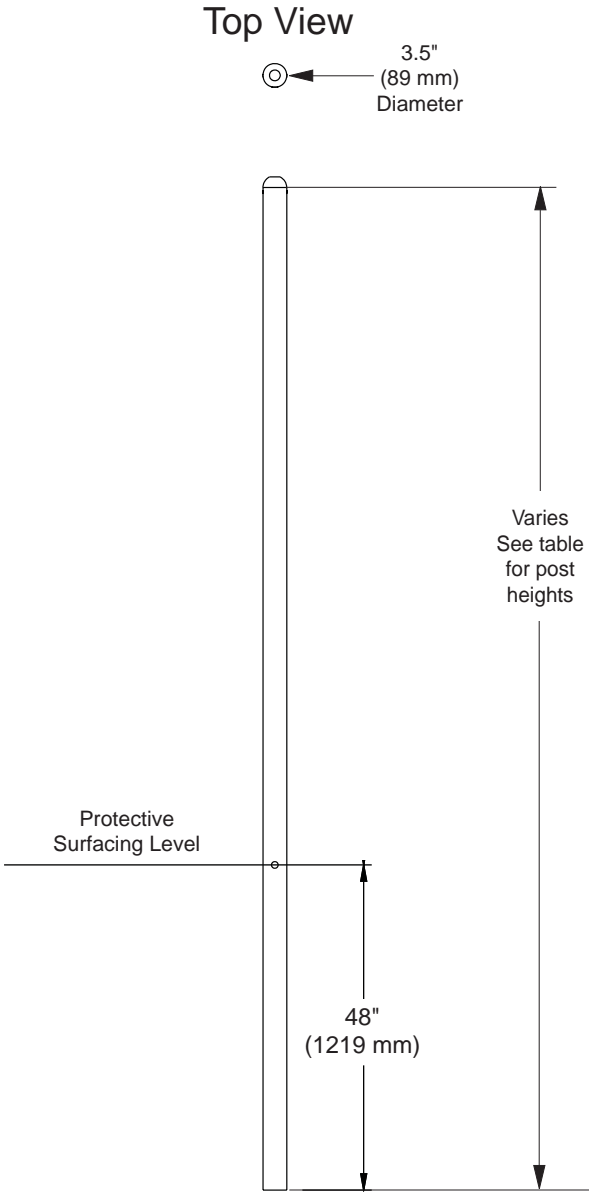
Challengers® Models CH0009GZ,
CH0038GZ, CH0058GZ, & CH0068GZ
GroundZero® Steel Support Post w/ Cap
112 in. (2845 mm), 148 in. (3759 mm),
172 in. (4369 mm)& 184 in. (4674 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.18 cubic yard (0,14 cubic meters)



Installation Instructions



Model	Post Height	Weight
ZZCH0009GZ	112" (2845 mm)	35.1 lbs. (16 kg)
ZZCH0038GZ	148" (3759 mm)	47 lbs. (21,2 kg)
ZZCH0058GZ	172" (4369 mm)	56 lbs. (25,4 kg)
ZZCH0068GZ	184" (4674 mm)	58.8 lbs. (26,7 kg)



Installation Instructions

___ **Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

___ **Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

___ **Step 2:** Separate and identify all components and hardware.

___ **Step 3:** Excavate footings as shown in the **Footing Details**. Ensure the hole is at GroundZero® depth.

___ **Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

___ **Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

CH0009GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 112 in. (2845 mm)

PART NO.	DESCRIPTION	QTY.
CAP5056	POST - 3-1/2" O.D. x 112" STEEL w/ CAP & LBL AT 48"	1

CH0038GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 148 in. (3759 mm)

PART NO.	DESCRIPTION	QTY.
CAP5057	POST - 3-1/2" O.D. x 148" STEEL w/ CAP & LBL AT 48"	1

CH0058GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 172 in. (4369 mm)

PART NO.	DESCRIPTION	QTY.
CAP0285	POST - 3-1/2" O.D. x 172" STEEL w/ CAP & LBL AT 48"	1

CH0068GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 184 in. (4674 mm)

PART NO.	DESCRIPTION	QTY.
CAP5074	POST - 3.50" O.D. x 184" STEEL w/ CAP & LBL AT 48"	1



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Installation Instructions

Challengers® Models CH0007, CH0009, CH0018,
CH0028, CH0038, CH0048, CH0058, CH0068,
CH0076, CH0256, CH0258
Steel Support Post w/ Cap
100 in. (2540 mm) to 224 in. (5690 mm)

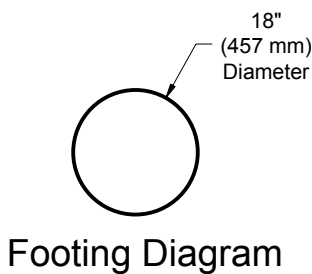
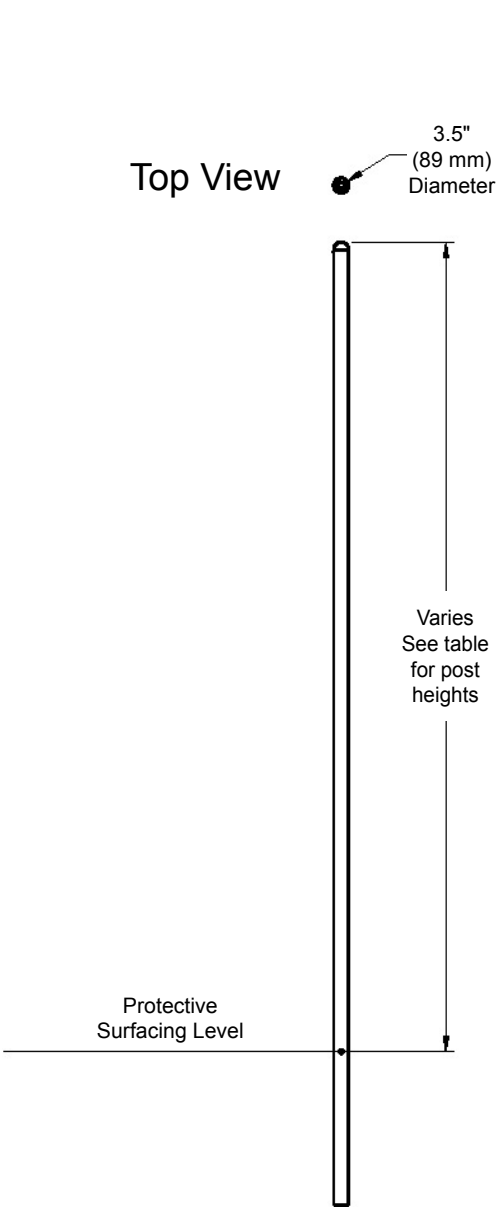


Assembly View *(representative model)*

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.13 cubic yard (0.10 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZCH0007	100" (2540 mm)	31.6 lbs. (14,4 kg)
ZZCH0009	112" (2845 mm)	35.4 lbs. (16,1 kg)
ZZCH0018	124" (3150 mm)	38.9 lbs. (17,7 kg)
ZZCH0028	136" (3454 mm)	43.5 lbs. (19,8 kg)
ZZCH0038	148" (3759 mm)	47.1 lbs. (21,2 kg)
ZZCH0048	160" (4064 mm)	50.2 lbs. (22,8 kg)
ZZCH0058	172" (4369 mm)	56 lbs. (25,4 kg)
ZZCH0068	184" (4674 mm)	57.1 lbs. (26 kg)
ZZCH0076	200" (5080 mm)	65 lbs. (29 kg)
ZZCH0256	212" (5385 mm)	62 lbs. (28,2 kg)
ZZCH0258	224" (5690 mm)	65.5 lbs. (29,8 kg)



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Excavate footings as shown in the **Footing Details**.

__Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bill of Materials

CH0007 - STEEL SUPPORT POST w/ CAP 100 in. (2540 mm)

PART NO.	DESCRIPTION	QTY.
CAP5036	POST - 3-1/2" O.D. x 100" STEEL w/ CAP & LBL AT 36"	1

CH0009 - STEEL SUPPORT POST w/ CAP 112 in. (2845 mm)

PART NO.	DESCRIPTION	QTY.
CAP5038	POST - 3-1/2" O.D. x 112" STEEL w/ CAP & LBL AT 36"	1

CH0018 - STEEL SUPPORT POST w/ CAP 124 in. (3150 mm)

PART NO.	DESCRIPTION	QTY.
CAP5040	POST - 3-1/2" O.D. x 124" STEEL w/ CAP & LBL AT 36"	1

CH0028 - STEEL SUPPORT POST w/ CAP 136 in. (3454 mm)

PART NO.	DESCRIPTION	QTY.
CAP5042	POST - 3-1/2" O.D. x 136" STEEL w/ CAP & LBL AT 36"	1

CH0038 - STEEL SUPPORT POST w/ CAP 148 in. (3759 mm)

PART NO.	DESCRIPTION	QTY.
CAP5044	POST - 3-1/2" O.D. x 148" STEEL w/ CAP & LBL AT 36"	1

CH0048 - STEEL SUPPORT POST w/ CAP 160 in. (4064 mm)

PART NO.	DESCRIPTION	QTY.
CAP5046	POST - 3-1/2" O.D. x 160" STEEL w/ CAP & LBL AT 36"	1

CH0058 - STEEL SUPPORT POST w/ CAP 172 in. (4369 mm)

PART NO.	DESCRIPTION	QTY.
CAP5048	POST - 3-1/2" O.D. x 172" STEEL w/ CAP & LBL AT 36"	1

CH0068 - STEEL SUPPORT POST w/ CAP 184 in. (4674 mm)

PART NO.	DESCRIPTION	QTY.
CAP5050	POST - 3-1/2" O.D. x 184" STEEL w/ CAP & LBL AT 36"	1

CH0076 - STEEL SUPPORT POST w/ CAP 200 in. (5080 mm)

PART NO.	DESCRIPTION	QTY.
CAP5052	POST - 3-1/2" O.D. x 200" STEEL w/ CAP & LBL AT 36"	1

CH0256 - STEEL SUPPORT POST w/ CAP 212 in. (5385 mm)

PART NO.	DESCRIPTION	QTY.
CAP0420	POST - 3-1/2" O.D. x 212" STEEL w/ CAP & LBL AT 36"	1

CH0258 - STEEL SUPPORT POST w/ CAP 224 in. (5690 mm)

PART NO.	DESCRIPTION	QTY.
CAP0422	POST - 3-1/2" O.D. x 224" STEEL w/ CAP & LBL AT 36"	1



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Assembly View (representative model)

Model	Deck Height	Weight
ZZCH0296	12" (305 mm) to 24" (610 mm)	46.21 lbs. (21 kg)
ZZCH0297	36" (915 mm) to 48" (1219 mm)	52.81 lbs. (24 kg)

Installation Instructions

Challengers® Model CH0296 and CH0297
 12" (305 mm) to 24" (610 mm) Deck Access
 and 36" (914 mm) to 48" (1219 mm) Deck Access
 GroundZero® Post w/ Ladder

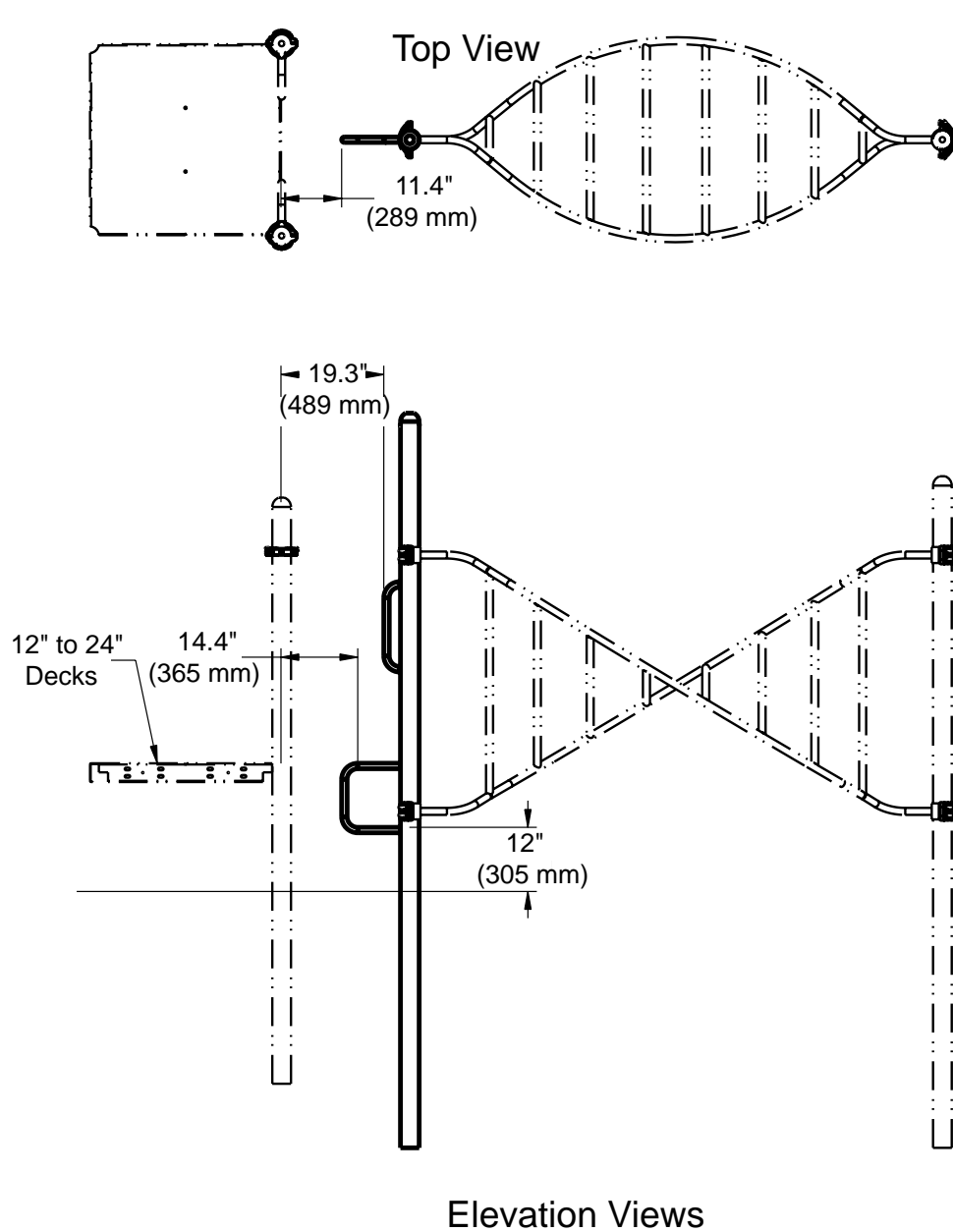
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hour
 Weight: (refer to table)
 Concrete Required: 0.18 cubic yard (0,13 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

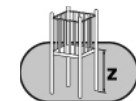
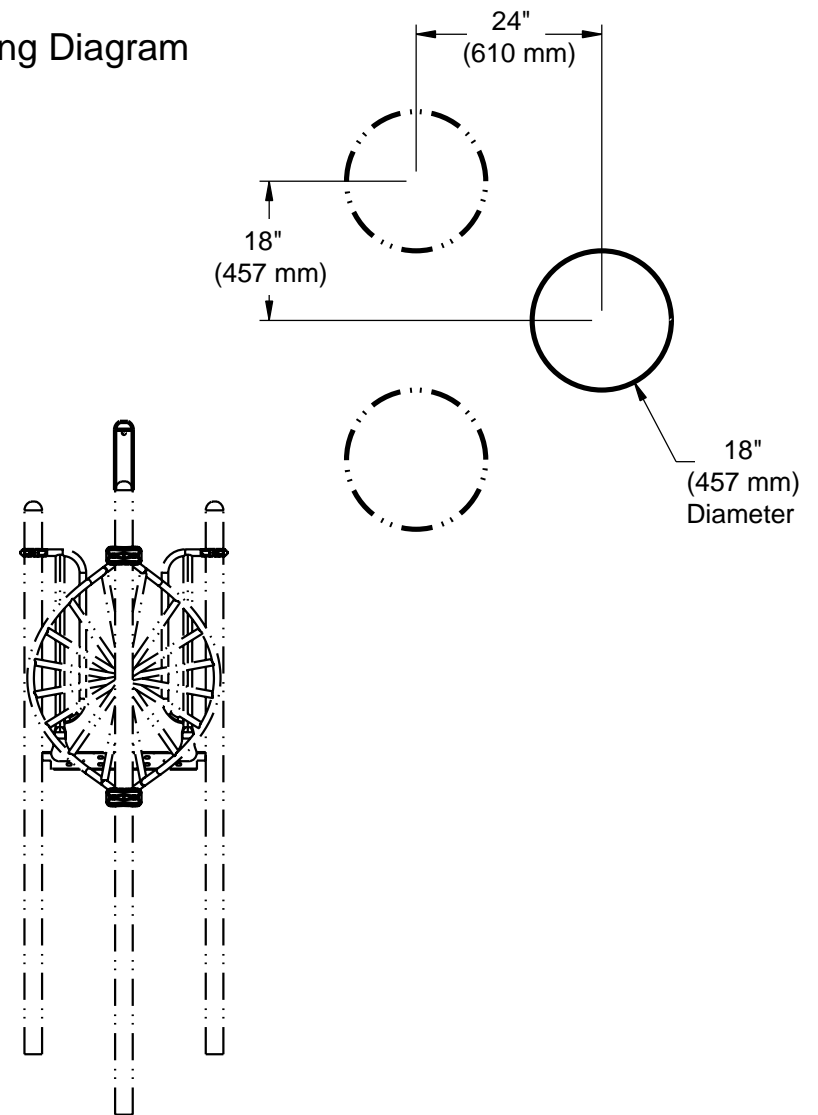
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Critical Fall Height		Dig Footing Holes

Installation Instructions



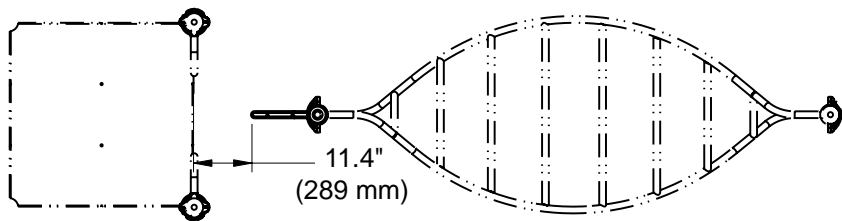
Footing Diagram



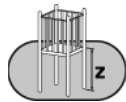
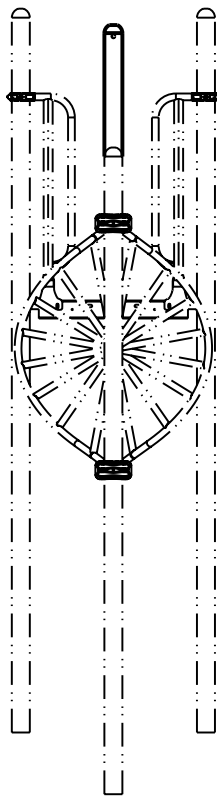
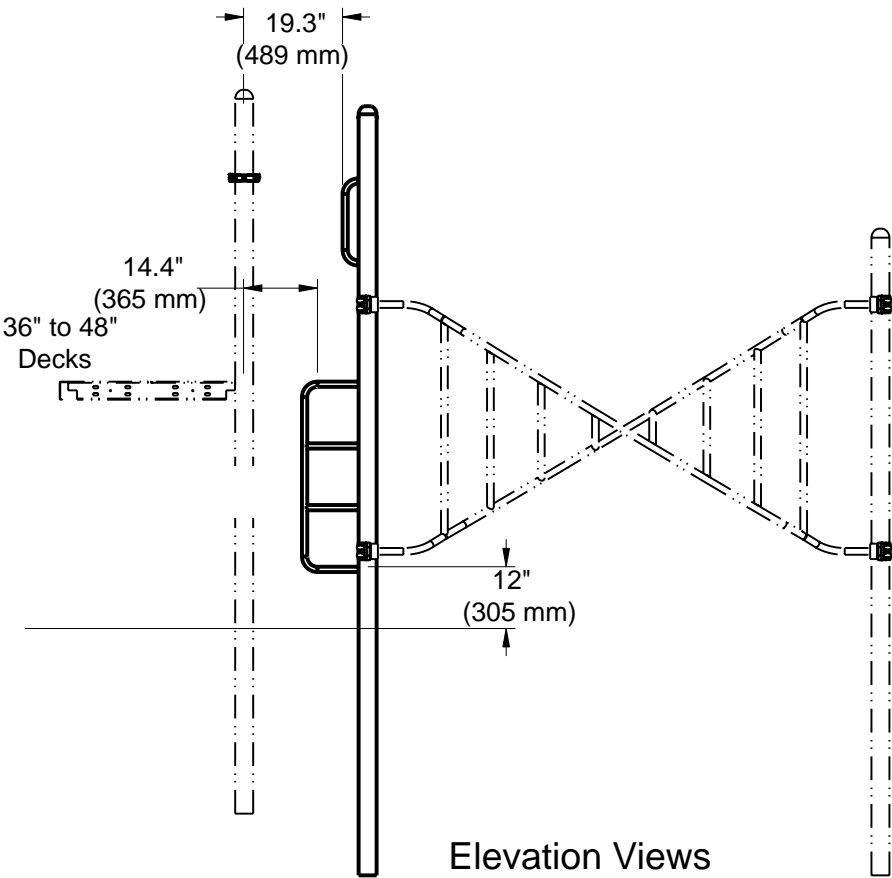
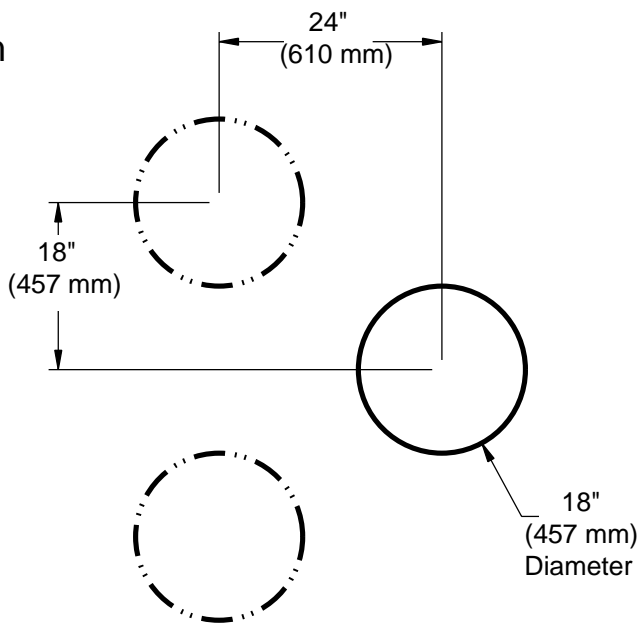
EN: 635 mm

Installation Instructions

Top View



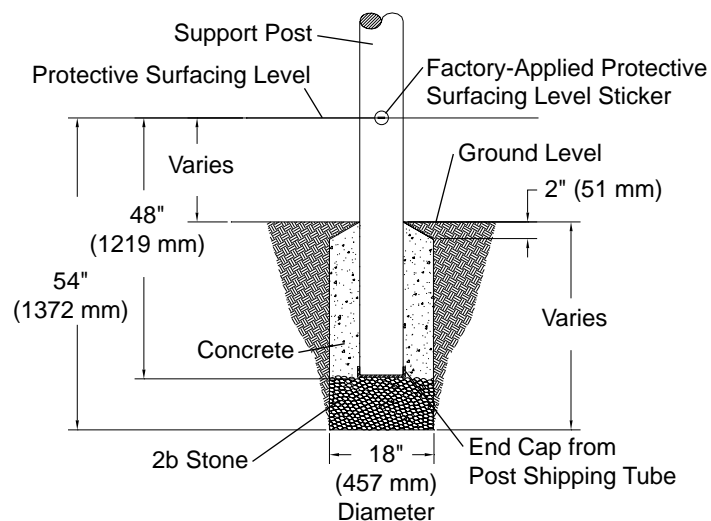
Footring Diagram



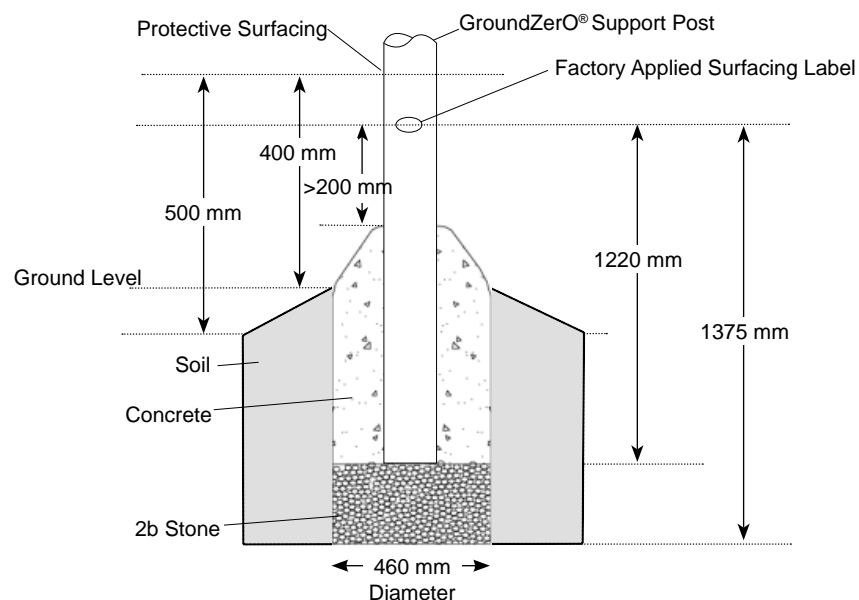
EN: 1219 mm



Installation Instructions



GroundZero® Support Post Footing Detail ASTM/CSA



Footing Detail - GroundZero® Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 54 in. (1372 mm) less the depth of the protective surfacing material. The post is designed to have 36" (914 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 42 in. (1067 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description.



Step 3



Detail A
Step 4



Step 5

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Footing Details**.

Place the support post in the prepared hole.

Step 4: Place the support post into the prepared hole. See **Detail A** and **Elevation View**. Select the support post. Place the post into the hole as shown in the **Elevation View**.

Important Note: Align the ladder to the deck as shown in the **Elevation View**.

Final Details.

Step 5: Plumb and level entire component. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

CH0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0040	POST - 3.50" O.D. x 136.00" w/CAP & LADDER (GZ)	1

CH0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0041	POST - 3.50" O.D. x 148.00" w/CAP & LADDER (GZ)	1



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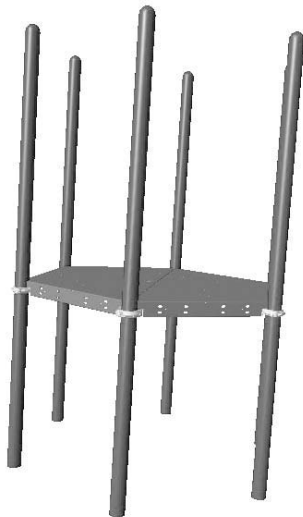
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Installation Instructions
Challengers® Models CH0618 and CH0619
Hex and Half Hex Coated Perforated Deck



ZZCH0618
Half Hex Deck



ZZCH0619
Hex Deck

Assembly View

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

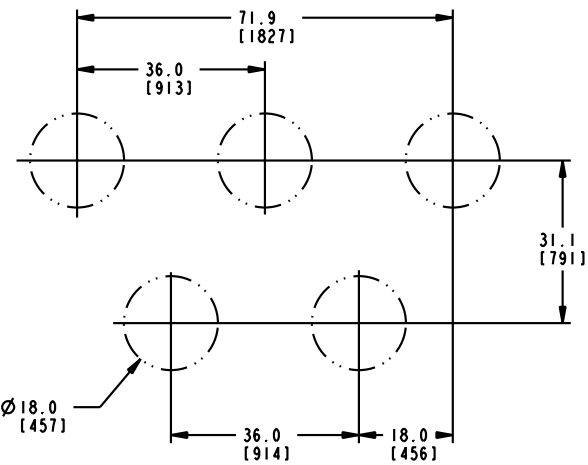
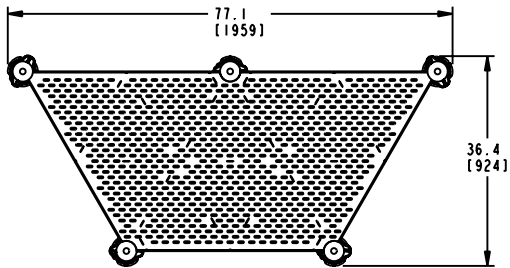
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



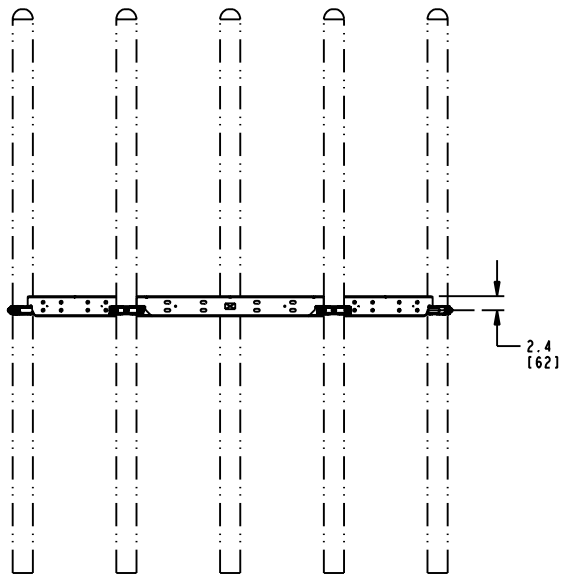
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

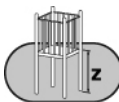
Top View



Footing Diagram



Elevation View
CH0618

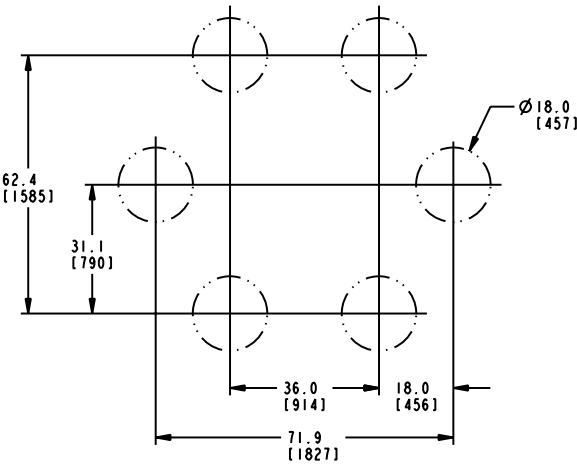
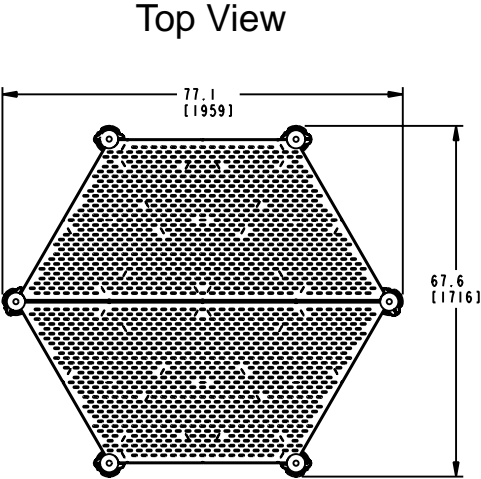


Equal to the height of the
deck

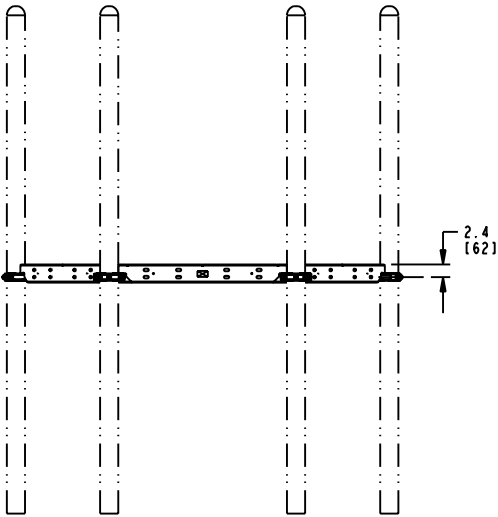


Installation Instructions

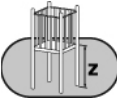
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
CH0619

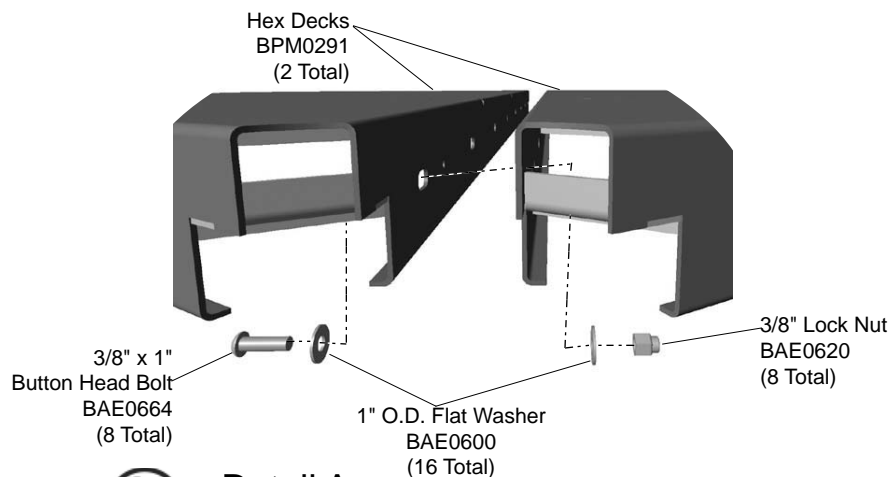


Equal to the height of the deck



Installation Instructions

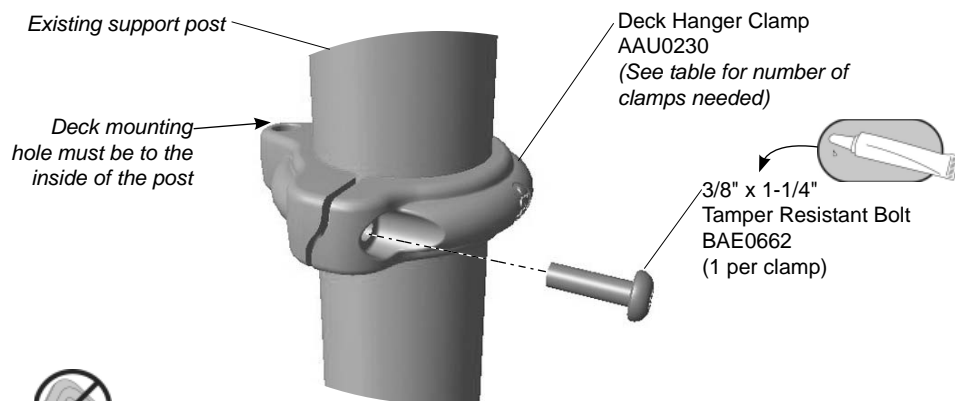
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 4

(Model CH0619 Only)

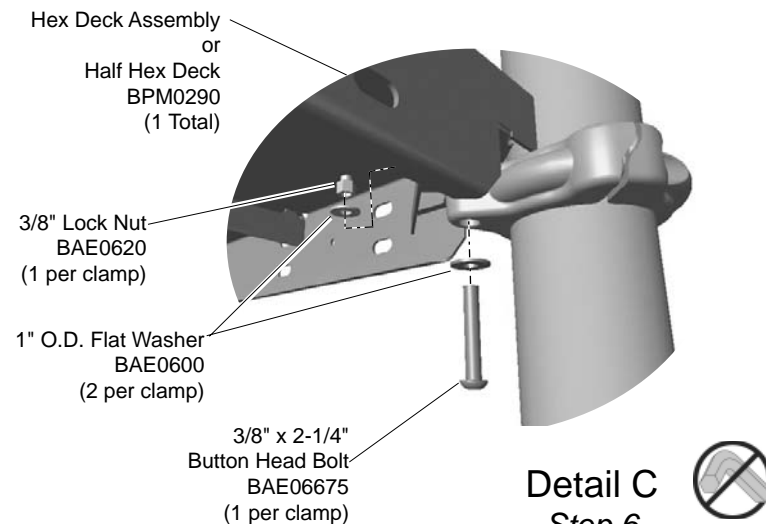
Attach the hex decks together.



Detail B
Step 5

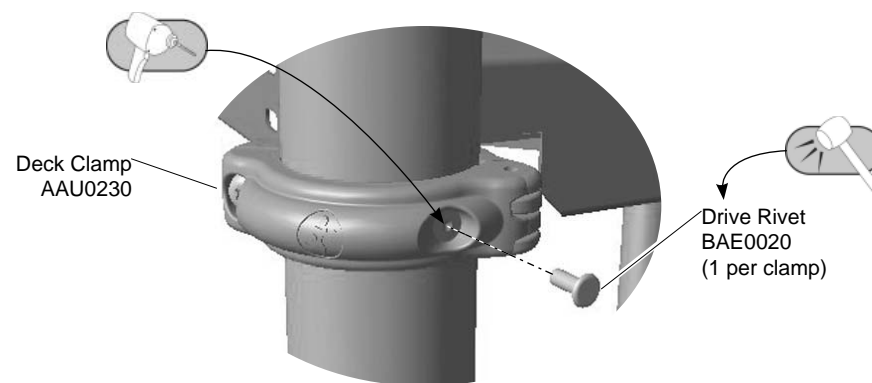
Attach the deck hanger clamps to the support posts.

Model	Deck Shape	Number of Clamps
ZZCH0618	Half Hex Deck	5
ZZCH0619	Hex Deck	6



Detail C
Step 6

Attach the deck to the deck hanger clamps.



Detail D
Step 8

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine the location of your decks by referring to your master footing diagram.

Step 4: Connect the decks. **See Detail A.** If there is only one deck go to **Step 5.** Place both decks upside down on a flat surface. Match the long edges, align holes and attach as shown.

Step 5: Attach the clamps to the post. **See Detail B** and **Elevation View.** Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 6: Attach the hex deck assembly or the half hex deck to the clamps. **See Detail C.** With adequate manpower, lift the deck onto the clamps, align the holes in the deck with those in the clamps and attach as shown.

Note: For the hex deck assembly each deck must be attached to (3) three clamps.

Final Details.

Step 7: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

CH0618 - HALF HEX COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0230	CLAMP - 3-1/2" DECK DIE CAST	5
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	5
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	5
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	5
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	5
BPM0290	PLATFORM - CH HALF HEX PERF	1

CH0619 - HALF HEX COATED PERFORATED DECK

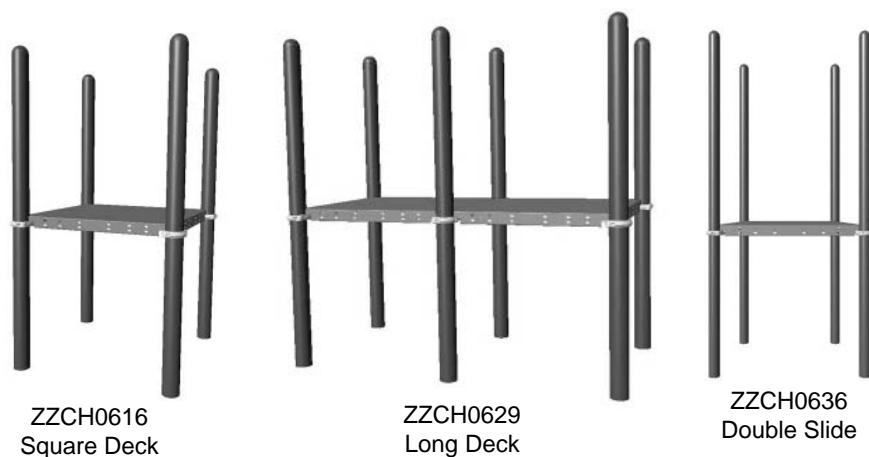
PART NO.	DESCRIPTION	QTY.
AAU0230	CLAMP - 3-1/2" DECK DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	6
BPM0291	PLATFORM - CH HEX PERF	2



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Installation Instructions Challengers® Models CH0616, CH0629, and CH0636 Square, Long, and Double Slide Perforated Deck



Assembly View

Installation Preparation

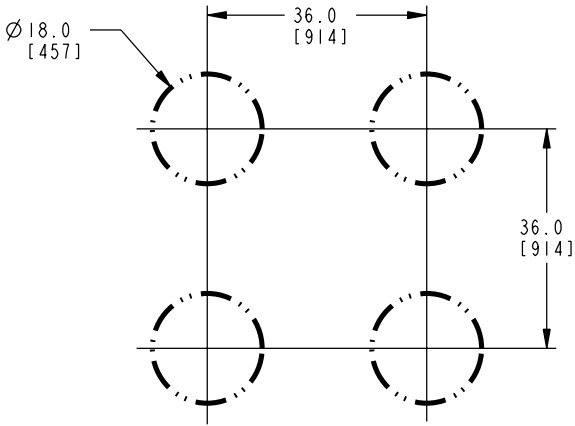
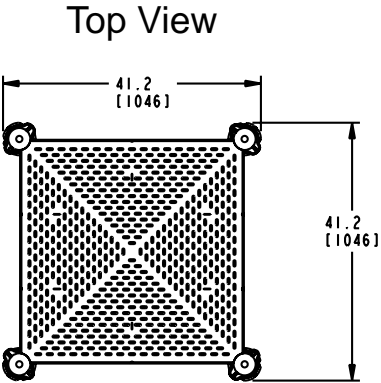
Recommended Crew (CH0616-36):..... Two (2) adults
 Recommended Crew (CH0629):..... Four (4) adults
 Installation Time (CH0616-36): 1 man-hour
 Installation Time (CH0629):..... 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

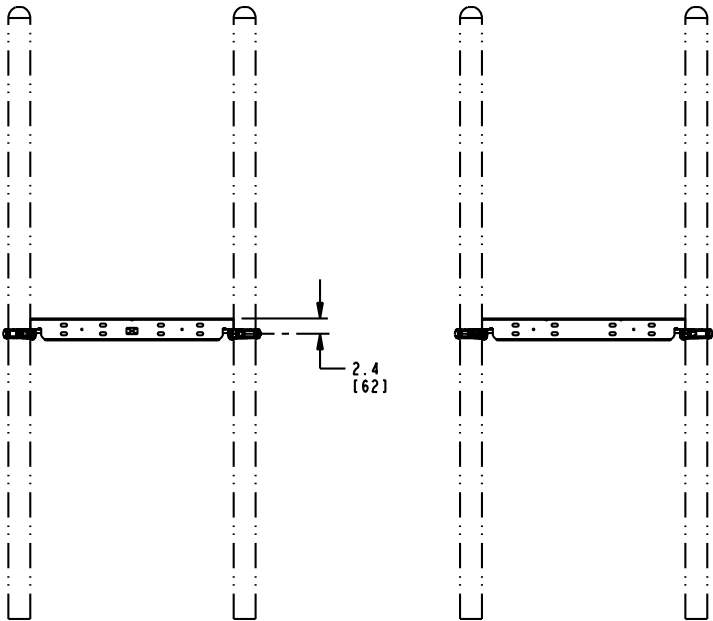
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	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

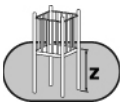
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation Views
CH0616



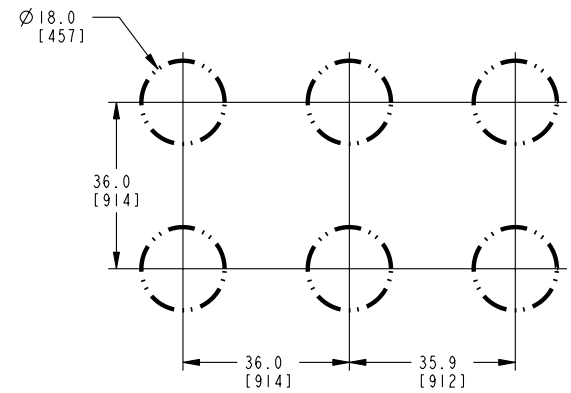
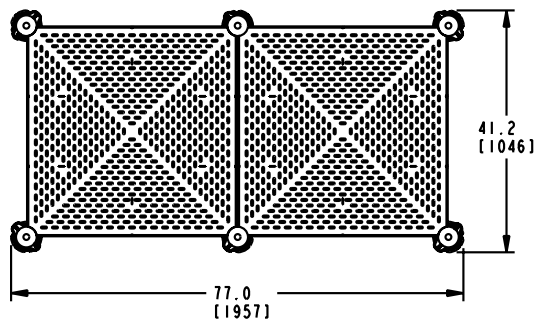
Equal to the height of the deck



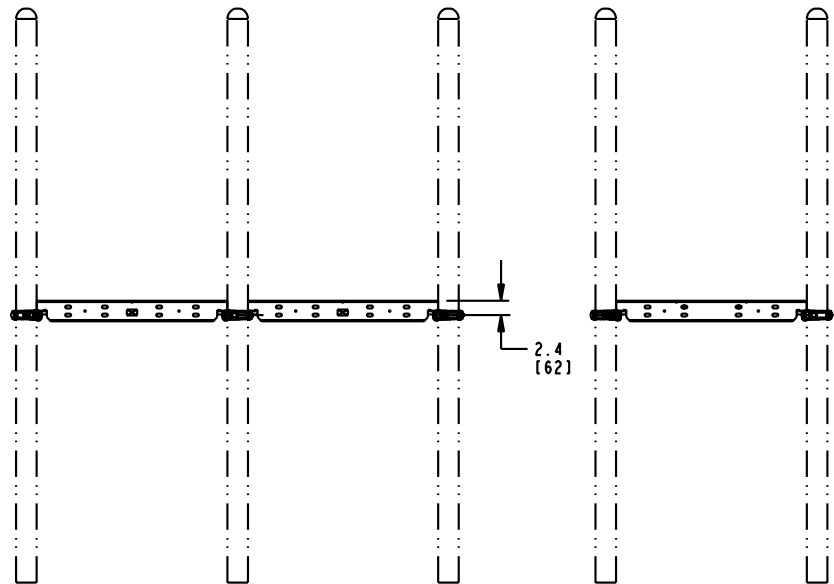
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

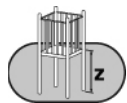
Top View



Footing Diagram



Elevation Views
CH0629

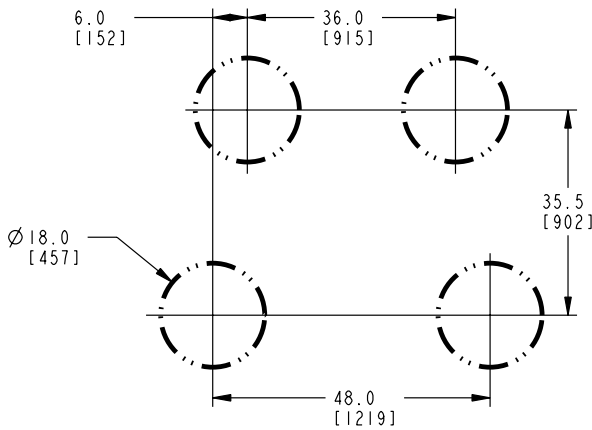
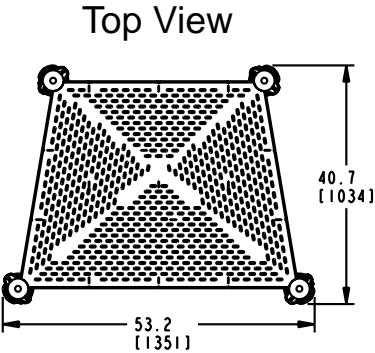


Equal to the height of the deck

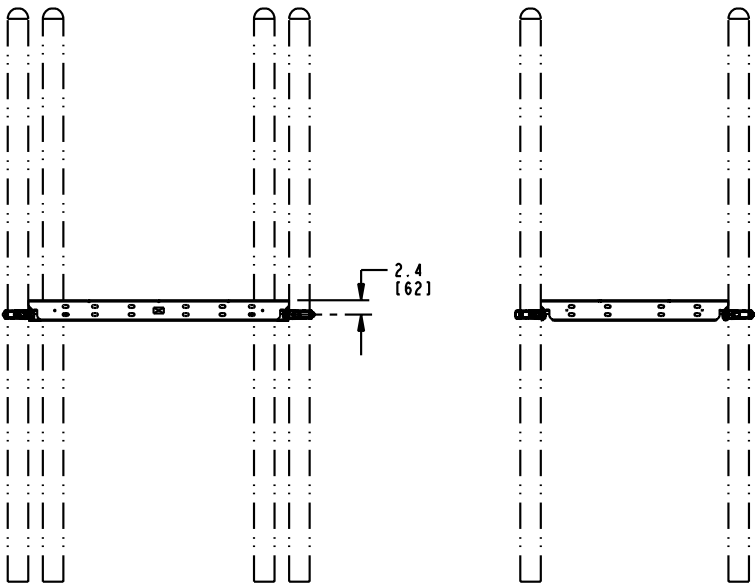


Installation Instructions

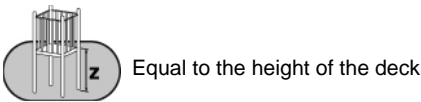
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

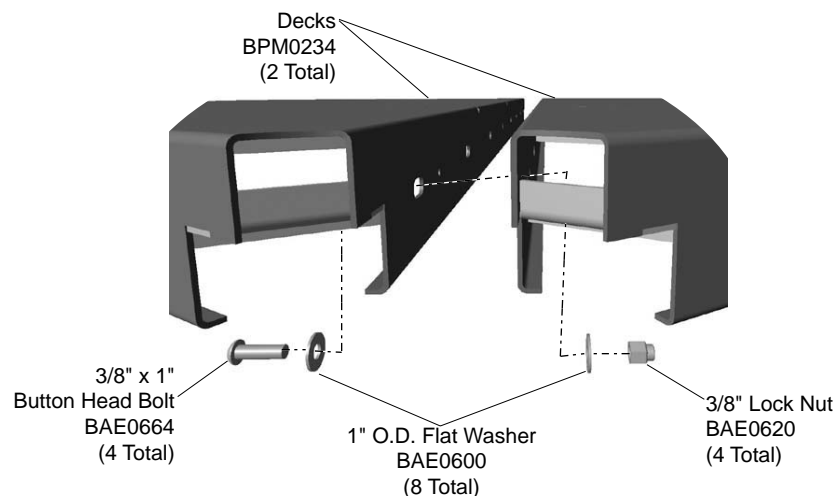


Elevation Views
CH0636

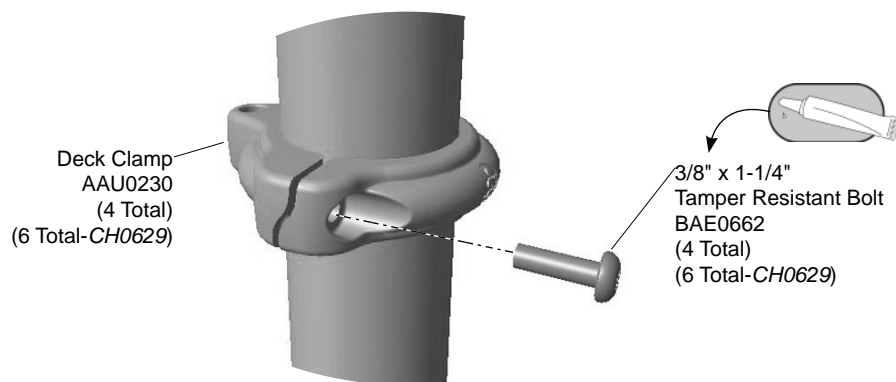


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

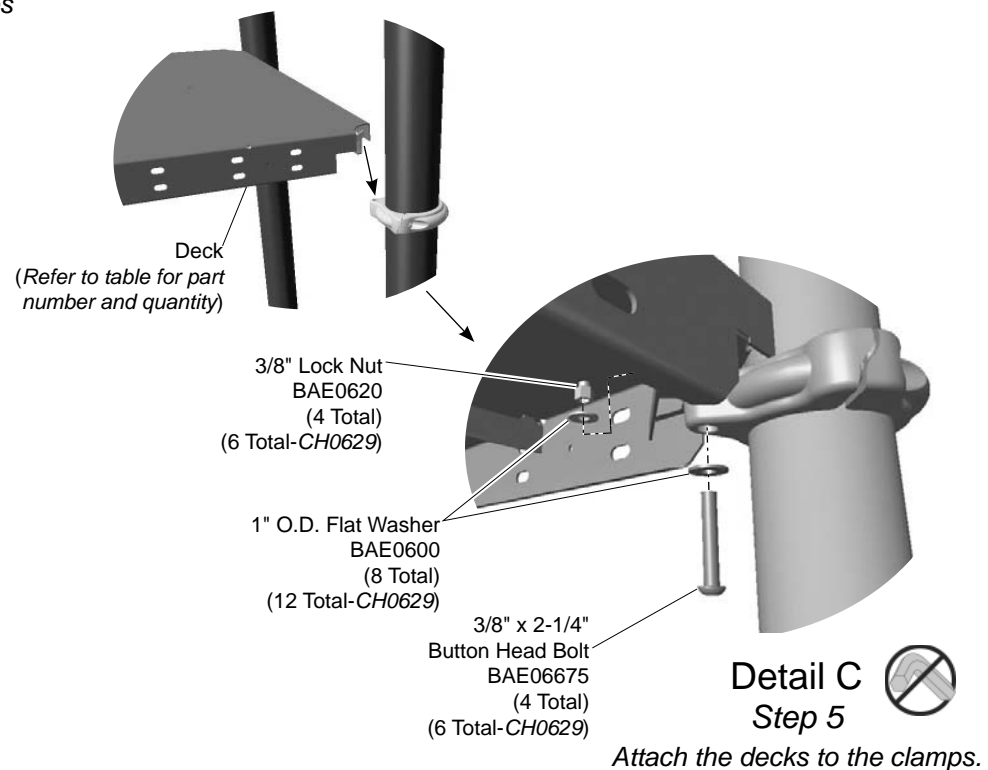


Detail A
Step 3
(Model CH0629 Only)
Attach the two decks together.



Detail B
Step 4
Attach the deck clamps to the support posts.

Model	Deck Part No.	No. of Decks
ZZCH0616	BPM0234	1
ZZCH0629	BPM0234	2
ZZCH0636	BPM0236	1



Detail D
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: (*Model CH0629 Only*) Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

CH0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0230	CLAMP - 3-1/2" DECK DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BPM0234	PLATFORM - CH SQUARE PERF	1

CH0636 - DOUBLE SLIDE PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0230	CLAMP - 3-1/2" DECK DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BPM0236	PLATFORM - CH DOUBLE SLIDE PERF	1

CH0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0230	CLAMP - 3-1/2" DECK DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	6
BPM0234	PLATFORM - CH SQUARE PERF	2



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Assembly View (representative model)

Installation Instructions

Challengers® Models CH0678, CH0678S,
CH0679 and CH0679S

Nuvo™ Transfer Station

48 in. (1219 mm) and 36 in. (914 mm) Decks
In-Ground and Surface Mount

Installation Preparation

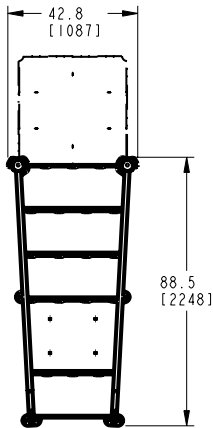
Recommended Crew: Two (2) adults
Installation Time (In-ground): 3.5 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.12 cubic yard (0,08 cubic meters)
Use Zone: Refer to the master layout drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

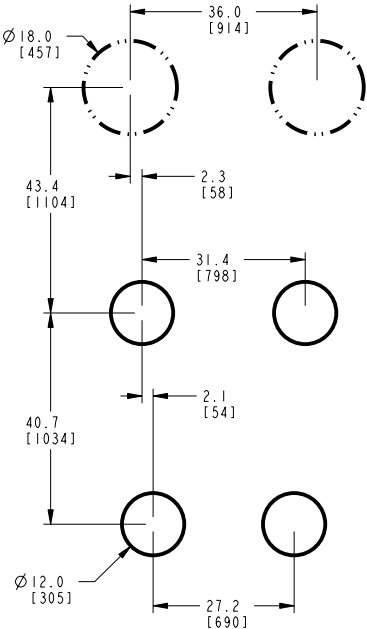
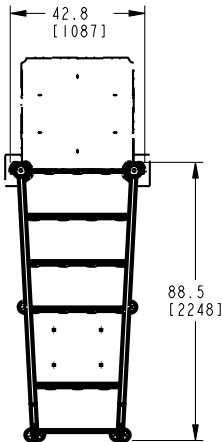
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

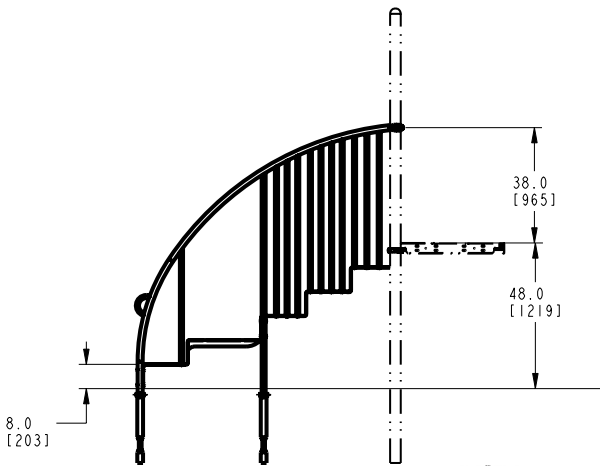
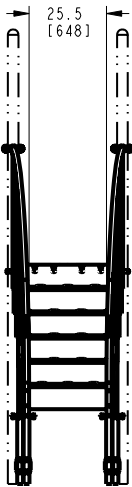
Top View



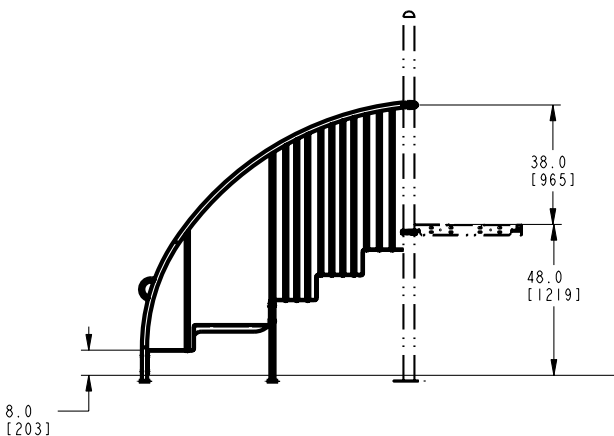
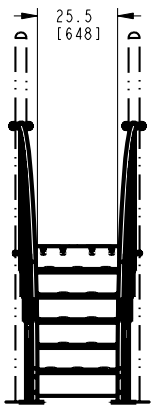
Top View



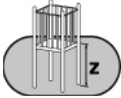
Footing Diagram
Both Models



Elevation Views
CH0678



Elevation Views
CH0678S



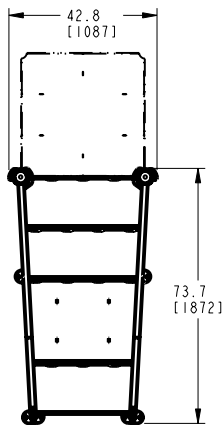
48" (1219 mm)



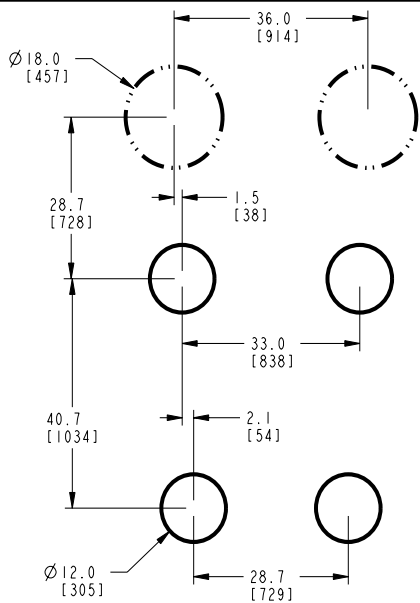
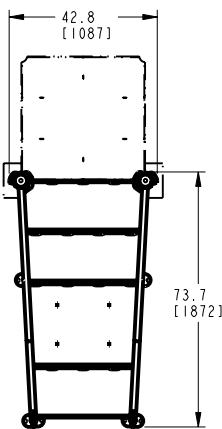
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

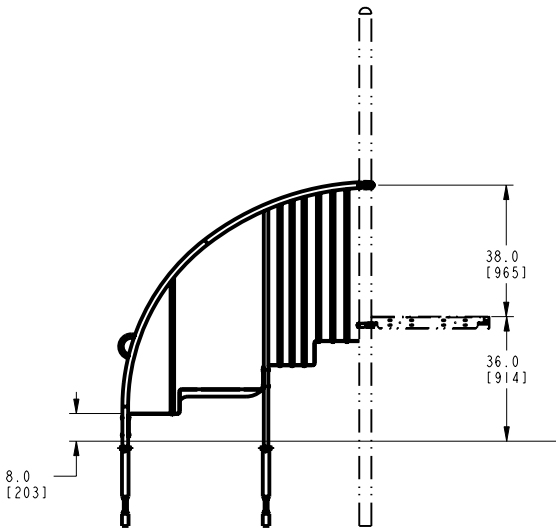
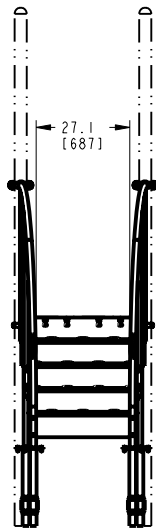
Top View



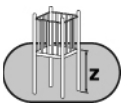
Top View



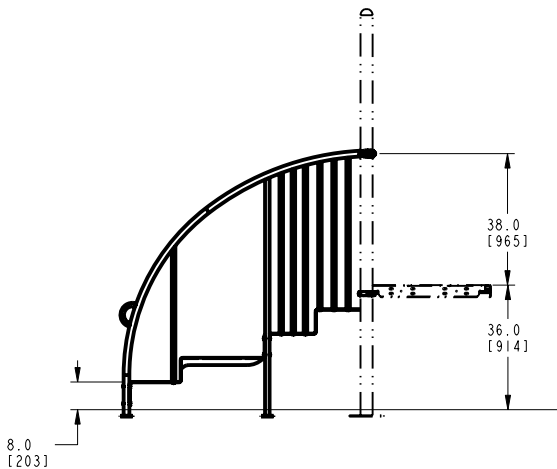
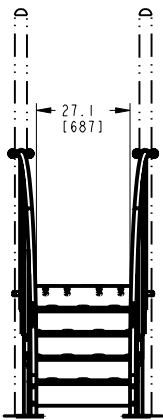
Footing Diagram
Both Models



Elevation Views
CH0679



36" (914 mm)

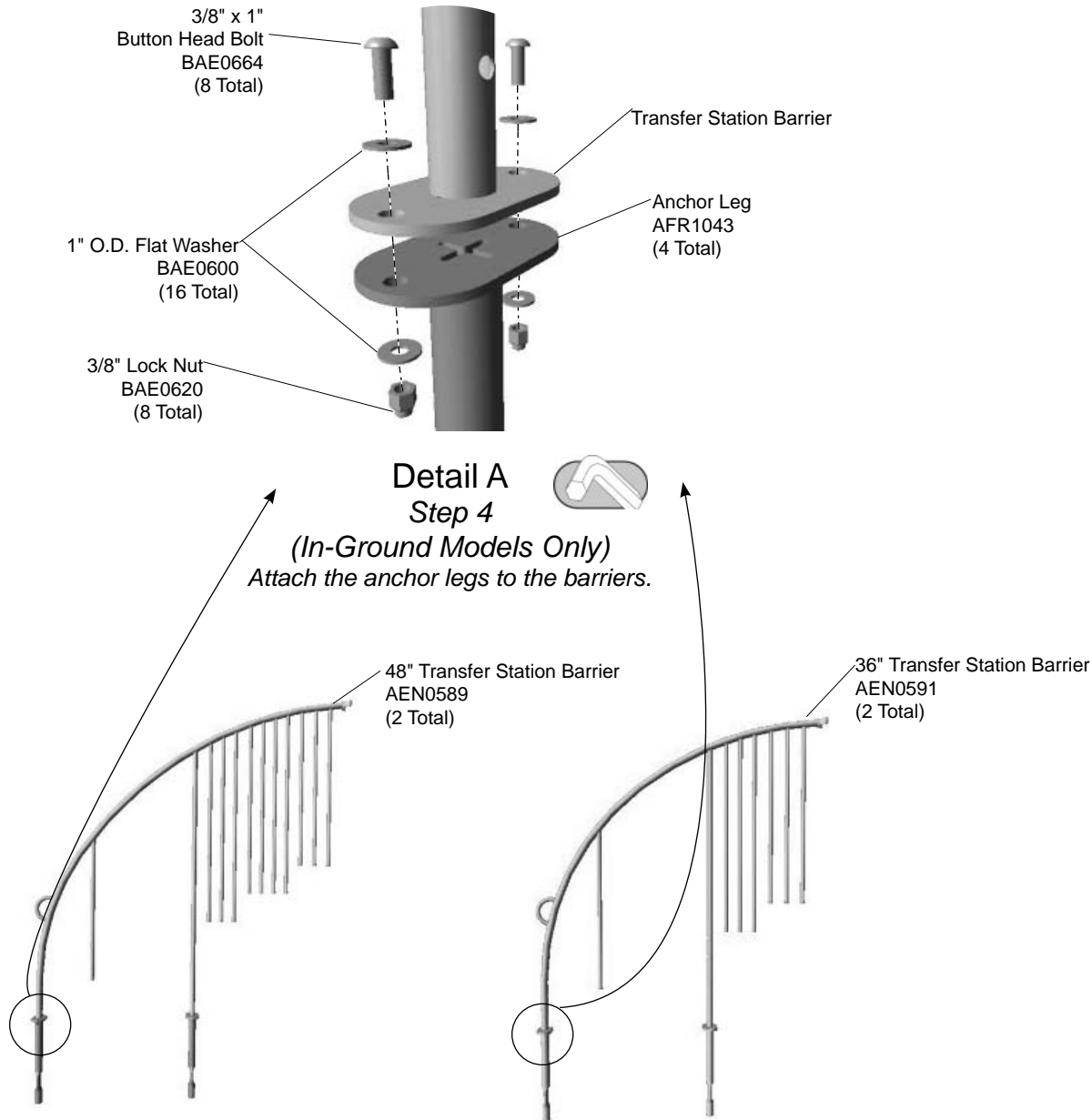


Elevation Views
CH0679S

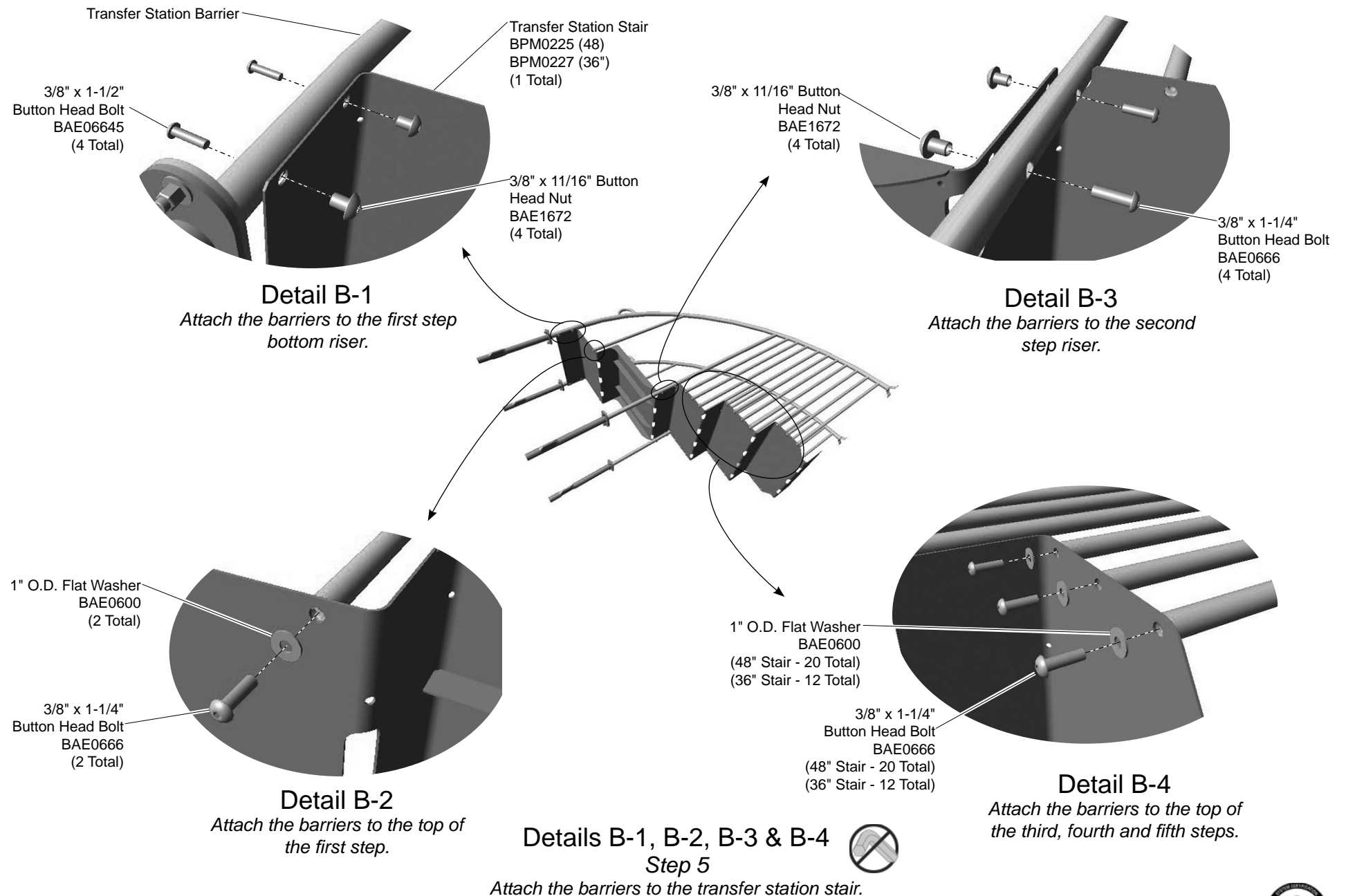


Installation Instructions

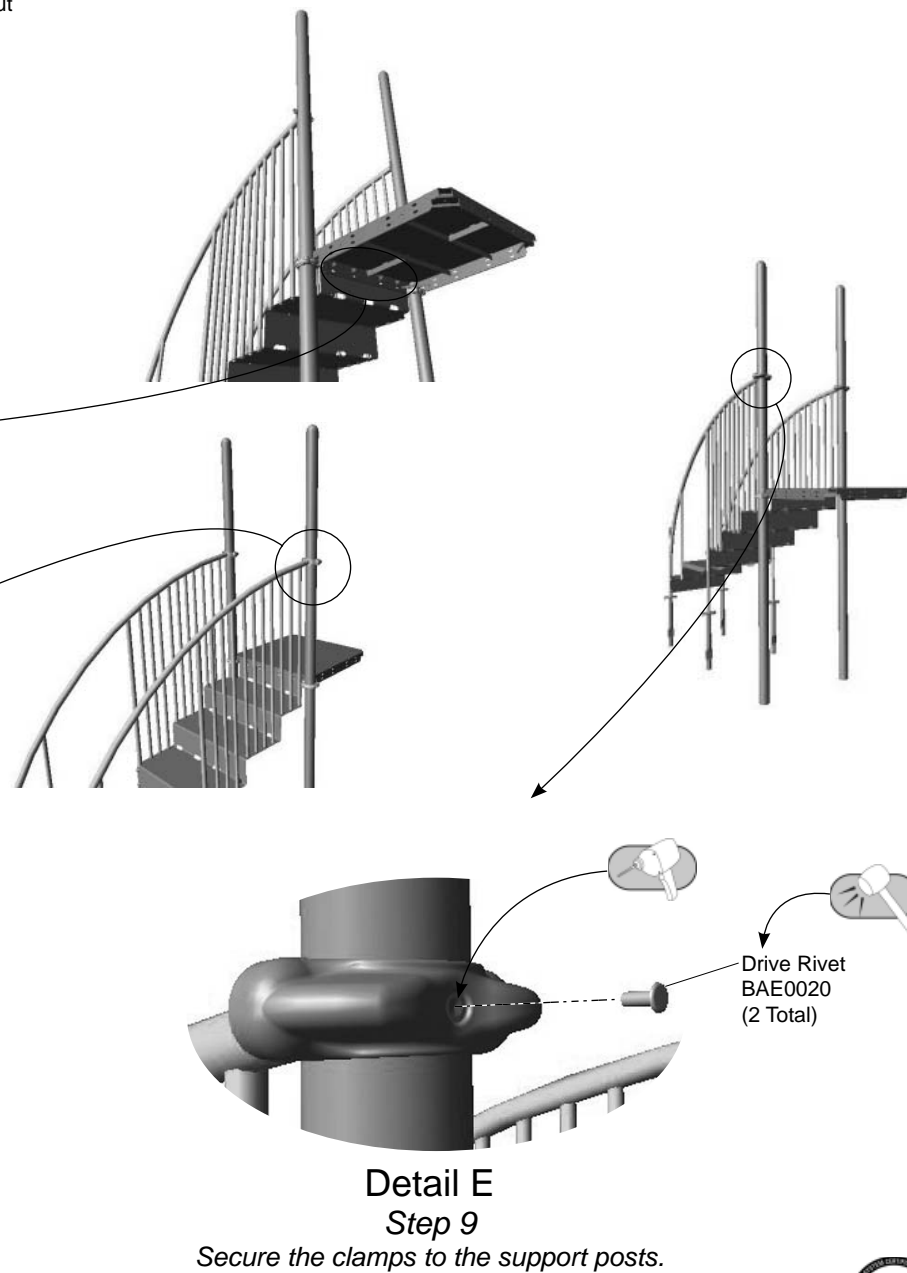
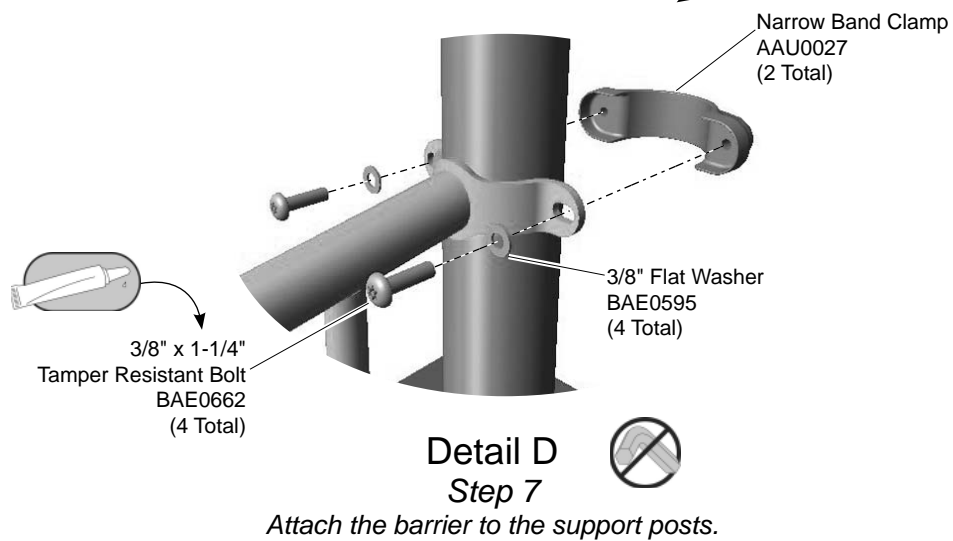
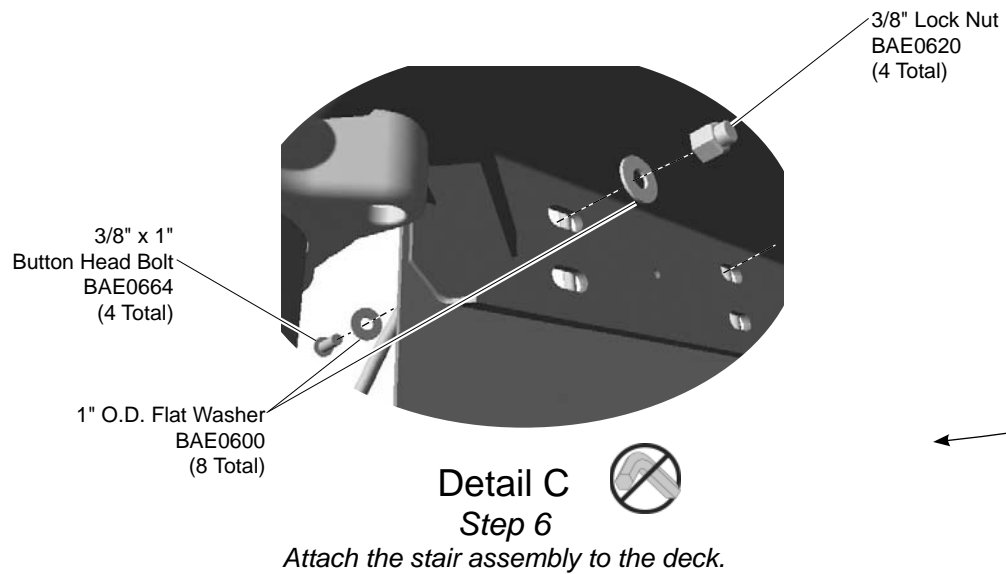
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Component Footing Details (In-Ground Models) and Surface Mount Footing Detail** shown in the *Guidelines* at the beginning of this instruction booklet.

Step 4: (In-Ground Models only) Attach the anchor legs to the barriers. See **Detail A**. Position an anchor leg against the bottom of each barrier leg and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the barriers to the transfer station stair. See **Details B-1, B-2, B-3 and B-4**. Lay the transfer station stair on its side and attach the first barrier. Starting at the bottom of the stair, attach the barrier to the first step bottom riser. Then attach the barrier to the top of the first step. Attach the barrier to the second step riser as shown. And finally, attach the barrier to the top of the third, fourth and fifth steps. Turn the stair over and attach the second barrier in the same manner.

Step 6: Attach the stair assembly to the deck. See **Detail C**. With adequate manpower, place the stair assembly in, or on, its footing and against the deck. The step riser must be flush against and level with the deck. Align the holes and attach as shown.

Step 7: Attach the barrier to the support posts. See **Detail D**. Place each band clamp around a post and against a barrier, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

CH0678 - NUVO™ TRANSFER STATION 48 in. (1219 mm) DECKS

PART NO.	DESCRIPTION	QTY.
AAU0027	CLAMP - 3-1/2" NARROW ALUMINUM BAND	2
AEN0589	BARRIER - 48" NUVO TRANSFER STATION (CH)	2
AFR1043	FRAME - PLAY SIMPLE LEG (ROUND)	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	46
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	26
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0225	FAB METAL - 83.35" x 36.69" x 47.61"	1

CH0678S - NUVO™ TRANSFER STATION 48 in. (1219 mm) DECKS SM

PART NO.	DESCRIPTION	QTY.
AAU0027	CLAMP - 3-1/2" NARROW ALUMINUM BAND	2
AEN0589	BARRIER - 48" NUVO TRANSFER STATION (CH)	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	30
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	26
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0225	FAB METAL - 83.35" x 36.69" x 47.61"	1

CH0679 - NUVO™ TRANSFER STATION 36 in. (914 mm) DECKS

PART NO.	DESCRIPTION	QTY.
AAU0027	CLAMP - 3-1/2" NARROW ALUMINUM BAND	2
AEN0591	BARRIER - 36" NUVO TRANSFER STATION (CH)	2
AFR1043	FRAME - PLAY SIMPLE LEG (ROUND)	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	38
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	18
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0227	FAB METAL - 68.61" x 36.70" X 34.61"	1

CH0679S - NUVO™ TRANSFER STATION 36 in. (914 mm) DECKS SM

PART NO.	DESCRIPTION	QTY.
AAU0027	CLAMP - 3-1/2" NARROW ALUMINUM BAND	2
AEN0591	BARRIER - 36" NUVO TRANSFER STATION (CH)	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	22
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	18
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPM0227	FAB METAL - 68.61" x 36.70" x 34.61"	1



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Assembly View (representative model)

Model	Deck Height	Weight
CH3128	24-30" (610-762 mm)	95.2 lbs. (43,3 kg)
CH3127	36" (915 mm)	95.2 lbs. (43,3 kg)
CH3126	48" (1220 mm)	119.6 lbs. (54,4 kg)
CH2658	60" (1525 mm)	135.4 lbs. (61,5 kg)
CH2696	72" (1830 mm)	150.1 lbs. (68,2 kg)

Installation Instructions

Challengers®

Models CH2658, CH2696, CH3126-CH3128

24"-72" (610-1829 mm) Glide Slides

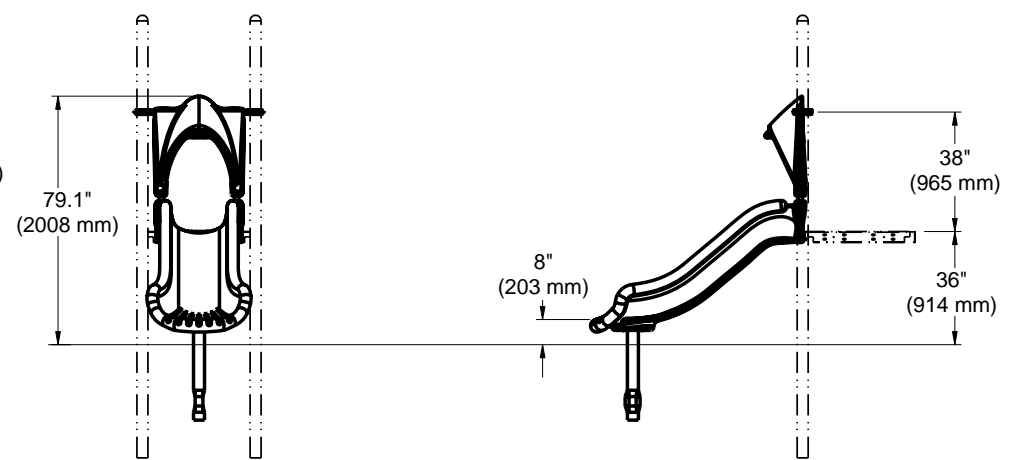
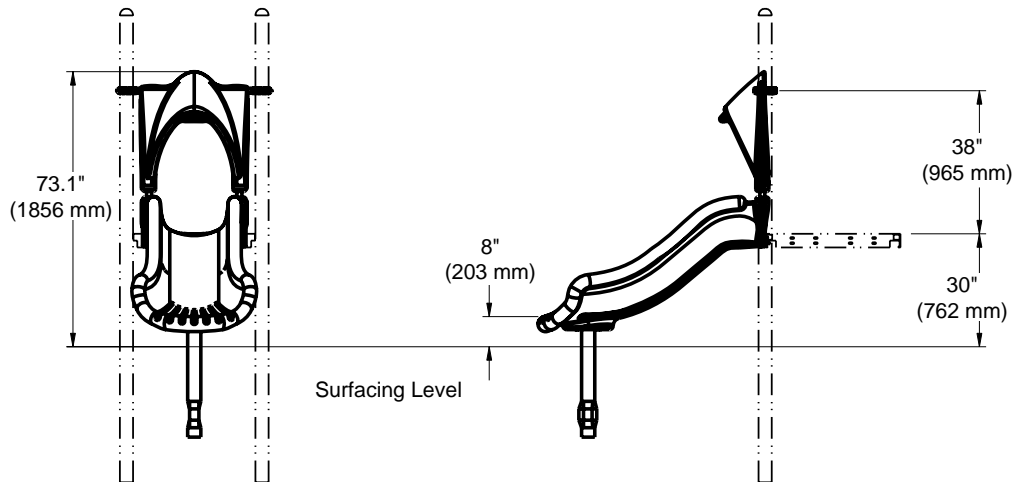
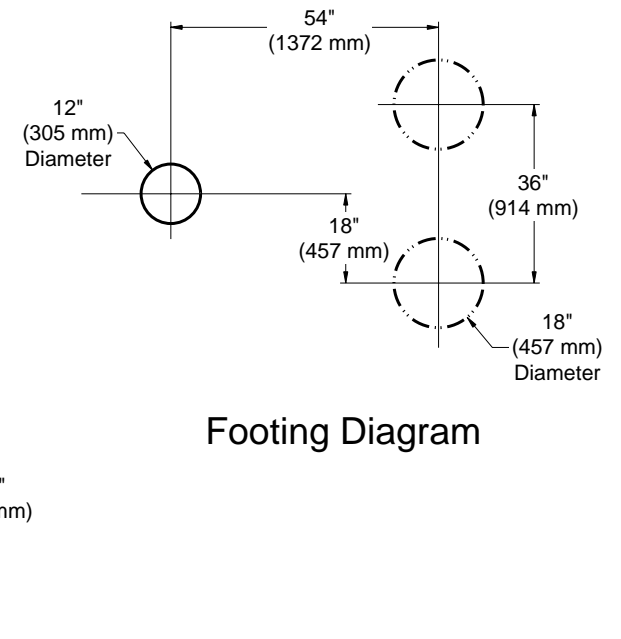
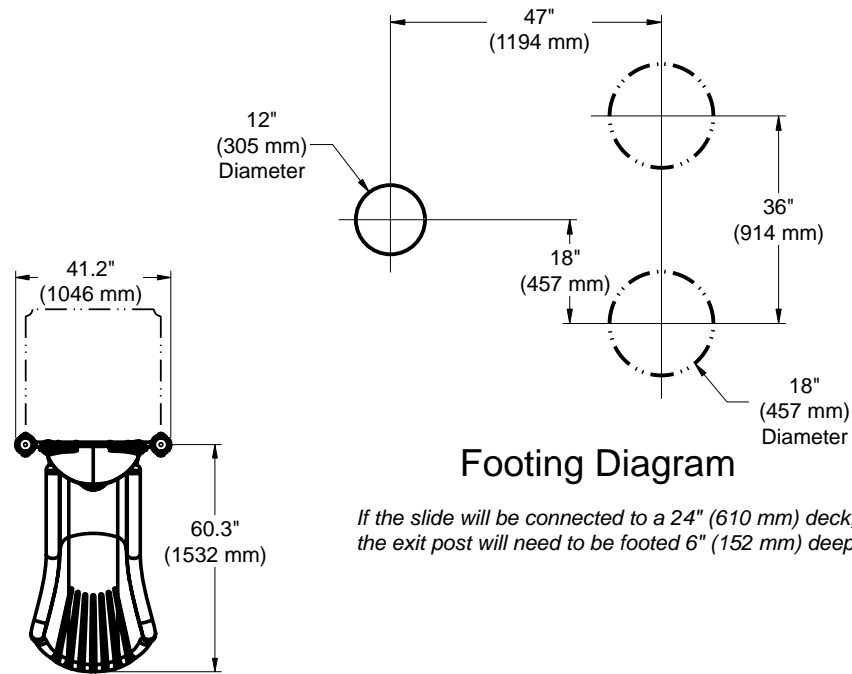
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Weight: refer to the table at left
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 24"-60": ASTM/CSA: 1.5-12, EN: 2-14
 48"-72": ASTM/CSA: 5-12, EN: 6-14

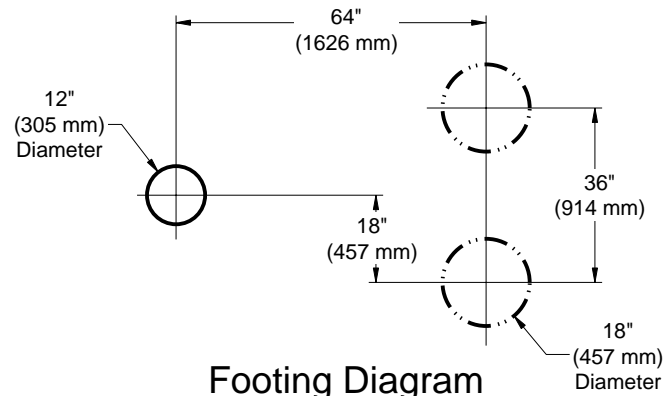
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

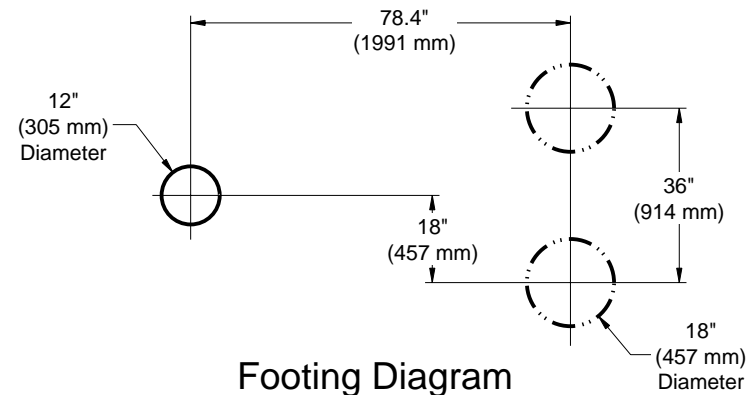
Installation Instructions



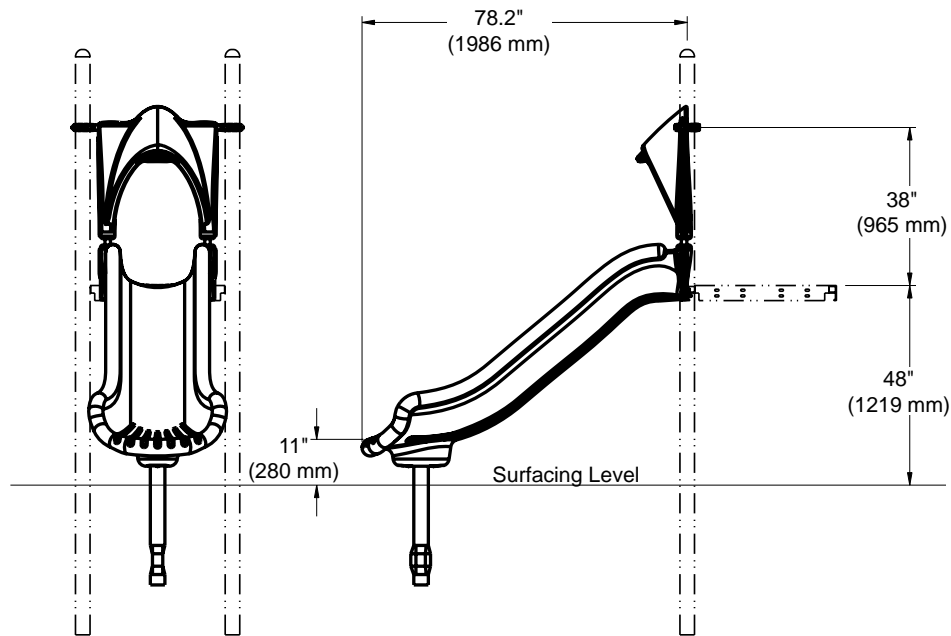
Installation Instructions



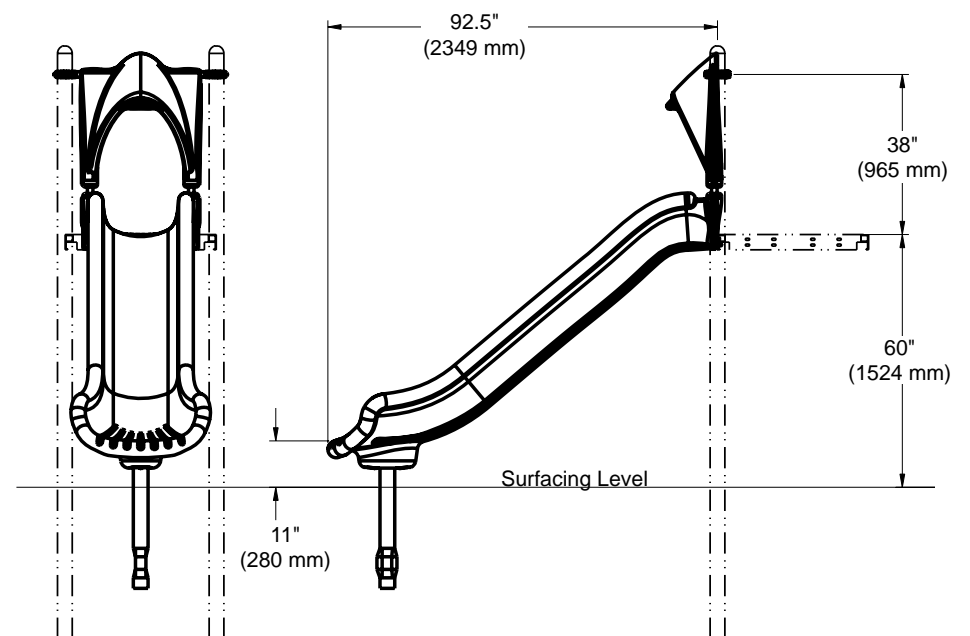
Footing Diagram



Footing Diagram

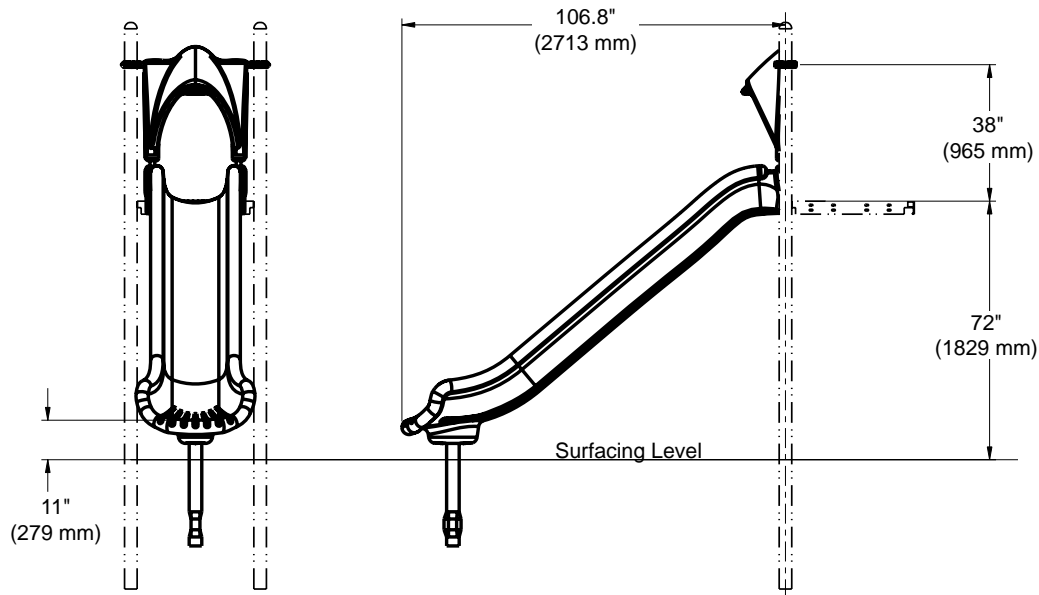
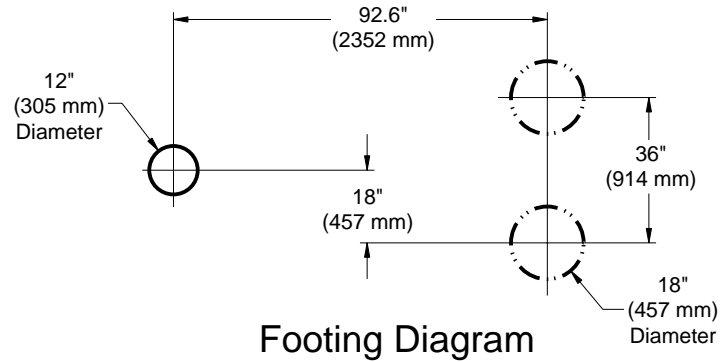


Elevation View CH3126 - 48" Glide Slide

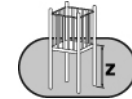


Elevation View CH2658 - 60" Glide Slide

Installation Instructions



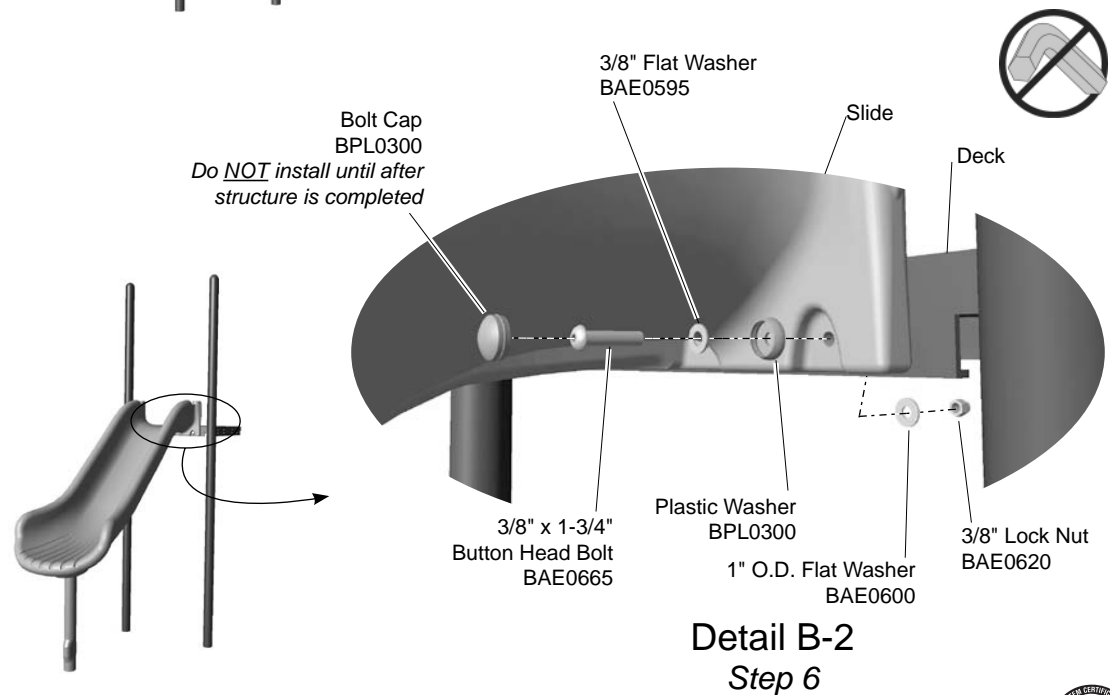
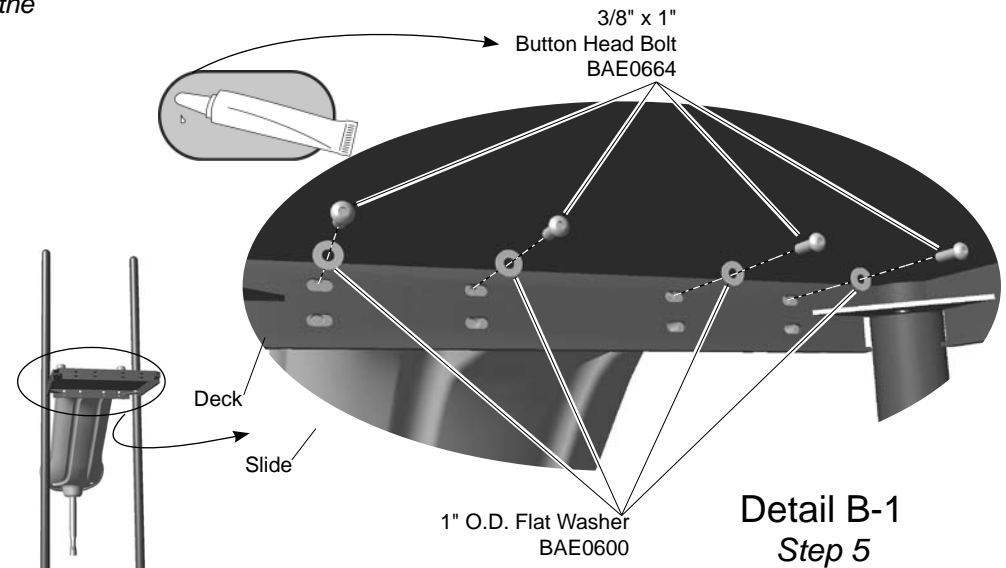
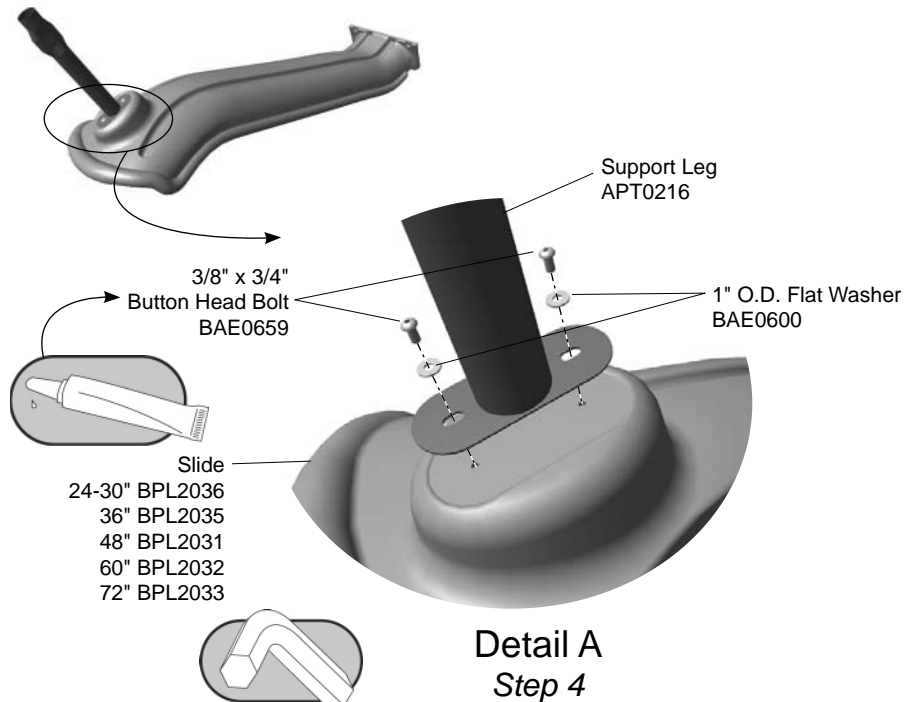
Elevation View CH2696 - 72" Glide Slide



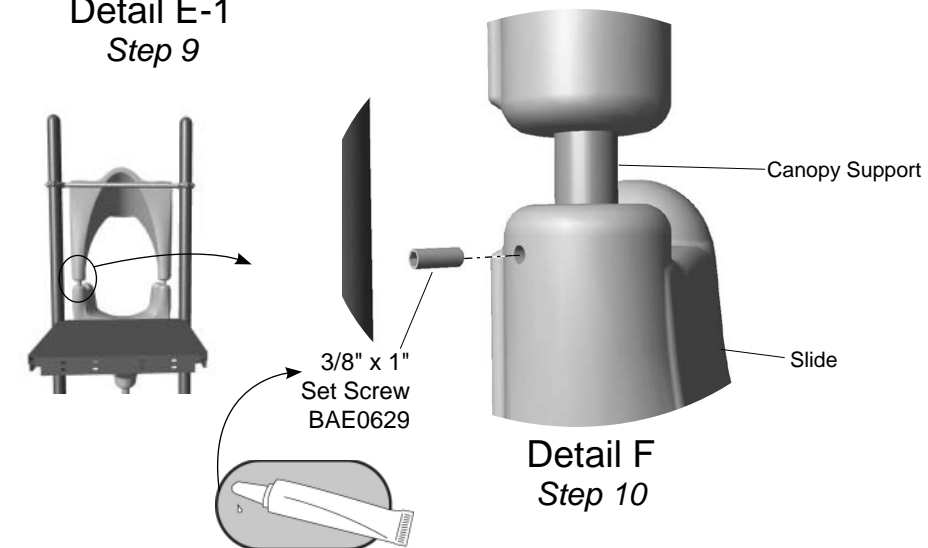
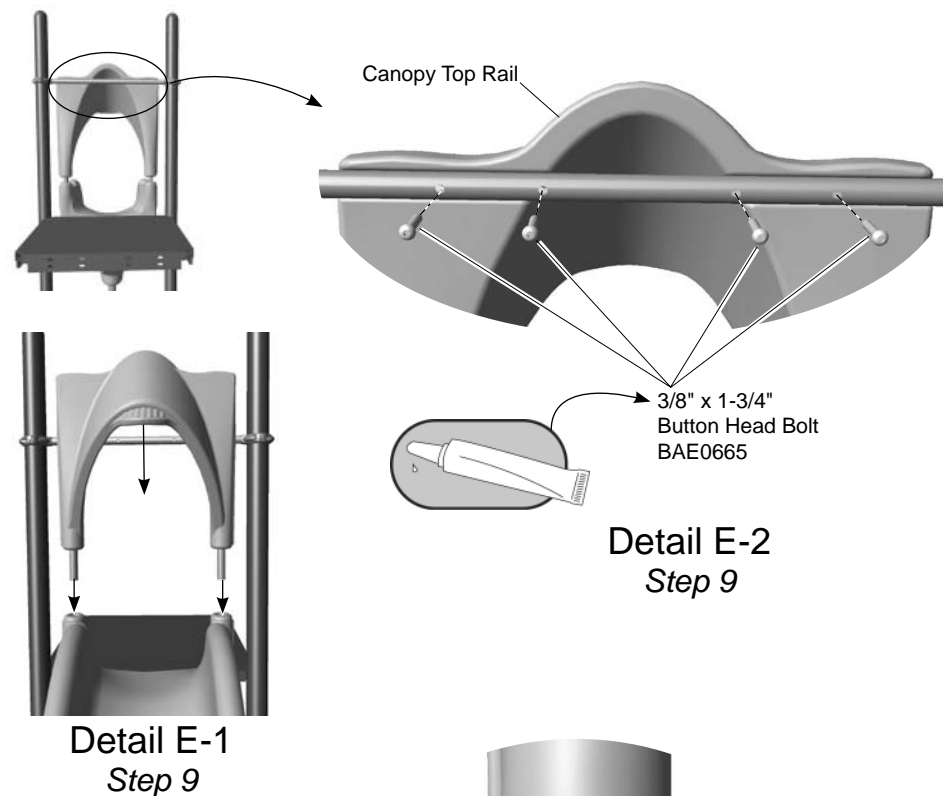
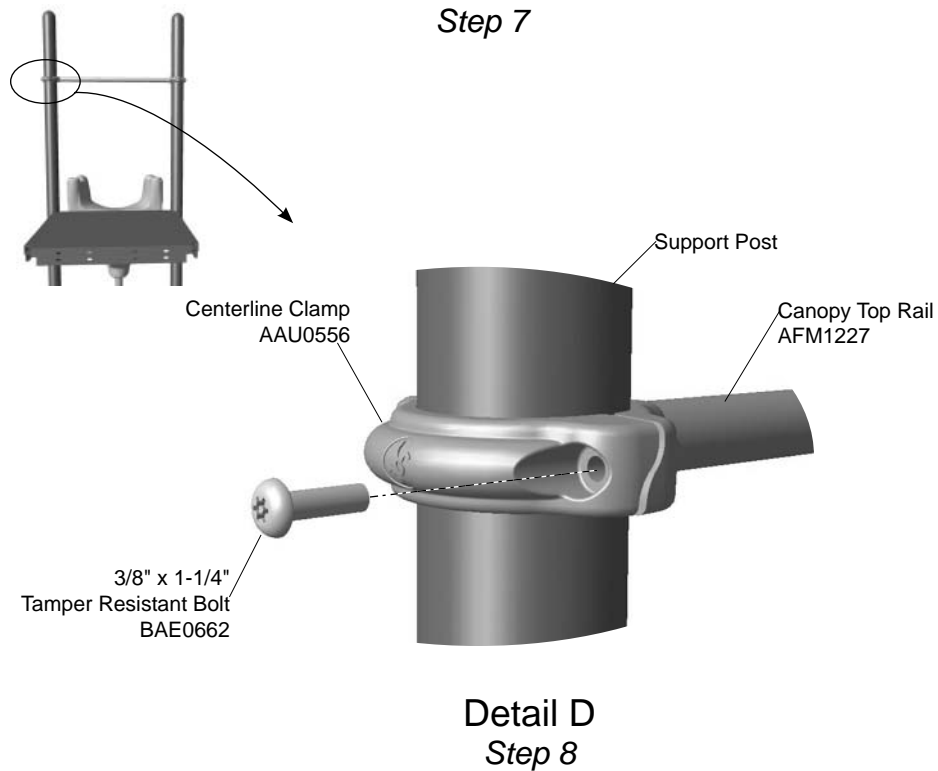
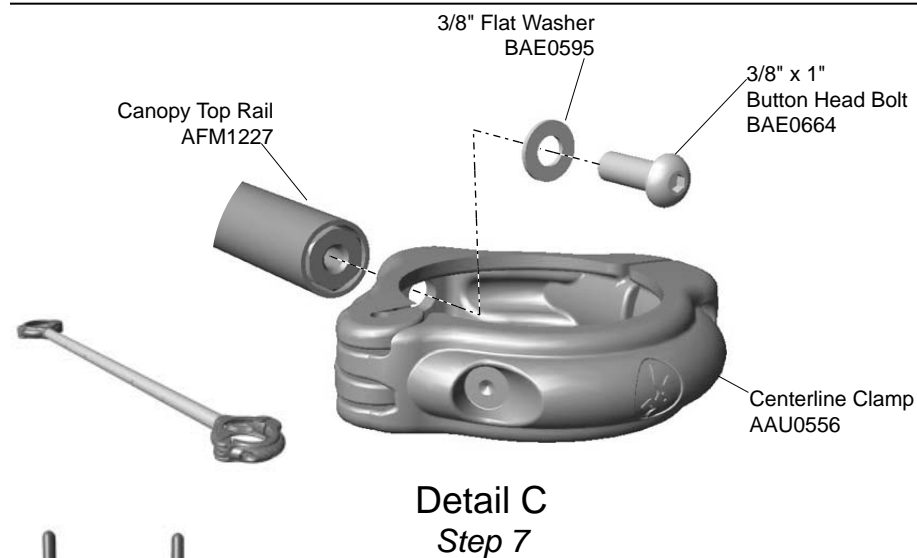
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

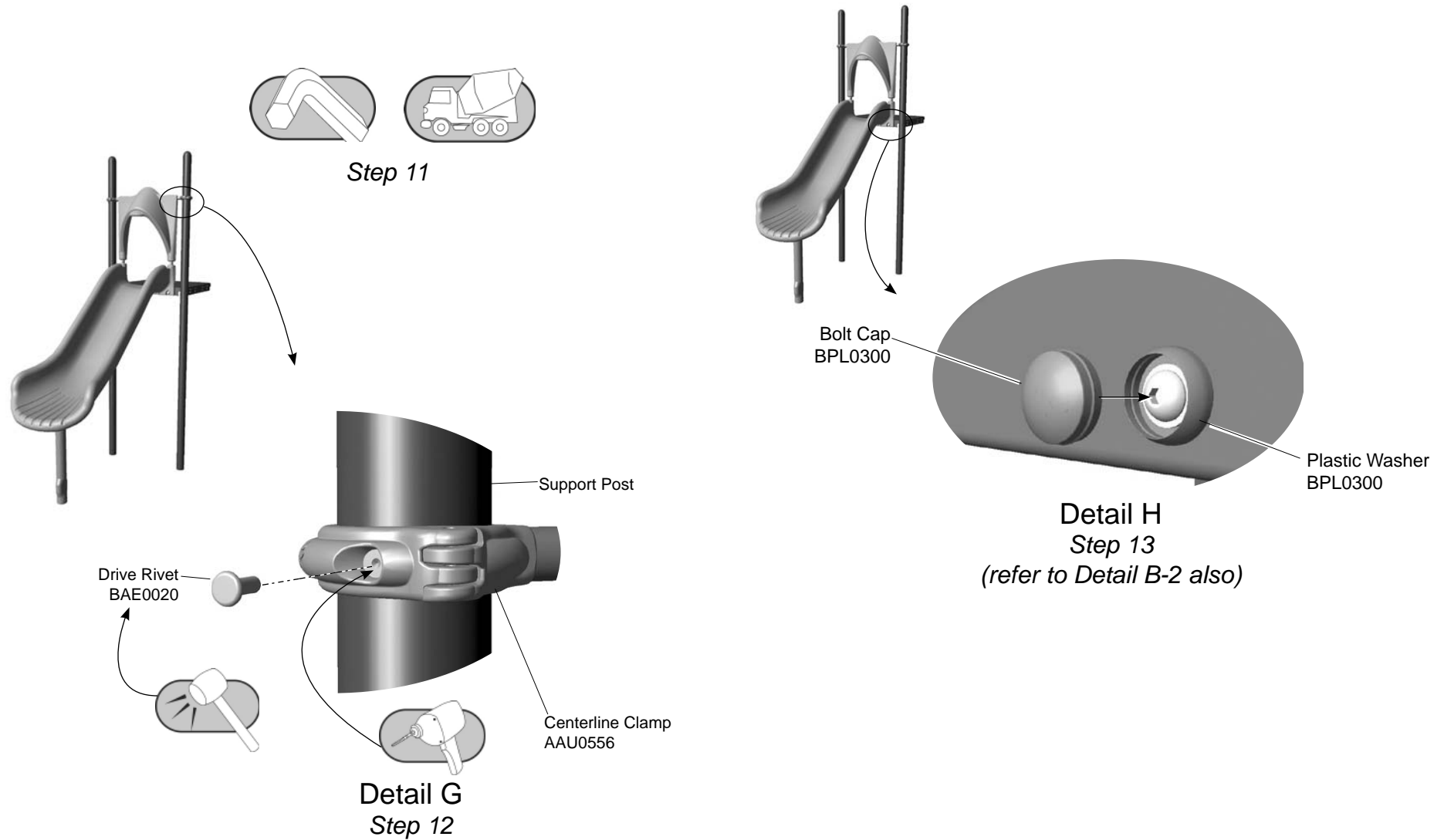
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Footing Details**.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the canopy top rail. See **Detail C**. Select (2) two centerline clamps, the top rail and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the top rail to the posts. See **Detail D**. Select the top rail and appropriate hardware. Position the top rail between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Move the top rail to approximately 38" (965 mm) above the deck and leave the connections loose.

Secure the canopy to the slide.

Step 9: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the top rail to the canopy as shown. If there is a clamp conflict the top rail can be moved up to 40" (1016 mm).

Step 10: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 11: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

___**Step 12:** Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

___**Step 13:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

___**Step 14:** Apply the hood string entanglement warning label to the slide.

CH2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
AFM1227	FAB. METAL - 1.315" O.D. x 30.50"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

CH2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
AFM1227	FAB. METAL - 1.315" O.D. x 30.50"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

CH3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
AFM1227	FAB. METAL - 1.315" O.D. x 30.50"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

CH3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
AFM1227	FAB. METAL - 1.315" O.D. x 30.50"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

CH3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
AFM1227	FAB. METAL - 1.315" O.D. x 30.50"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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800-233-8404 or
570-522-9800 OUTSIDE U.S.
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Assembly View (representative model)

Installation Instructions

Challengers® Models CH3537 and CH3537S

Nuvo™ 360° Spiral Slide

In-Ground and Surface Mount

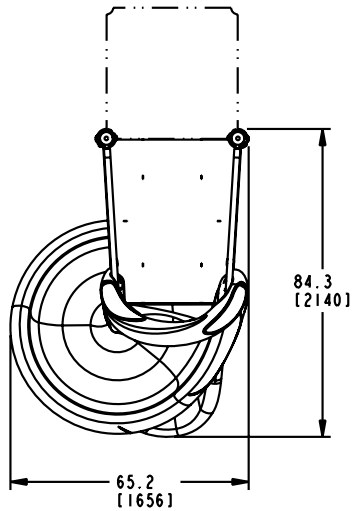
Installation Preparation

Recommended Crew: Four (4) adults
 Installation Time (in-ground): 6 man-hours
 Installation Time (surface mount): 5 man-hours
 Concrete Required: 0.15 cubic yard (0,11 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

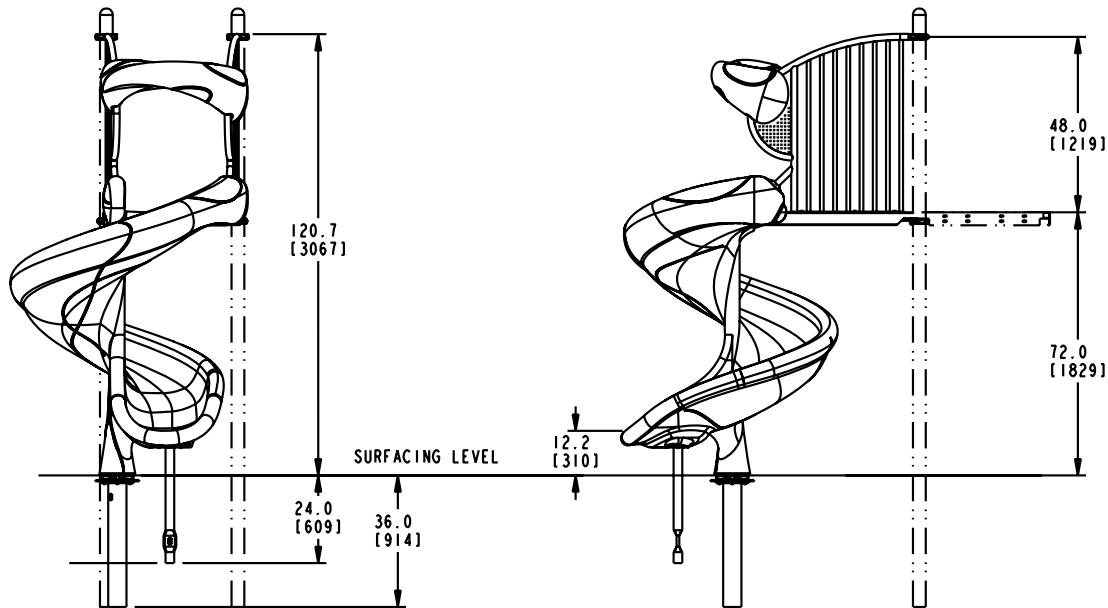
Installation Instructions

Top View

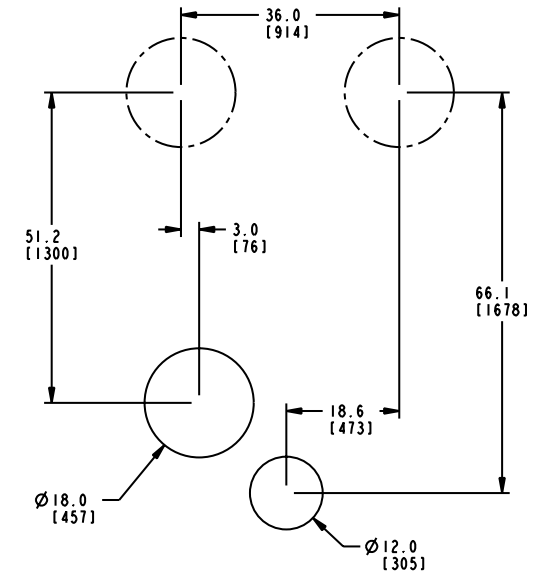


KEY

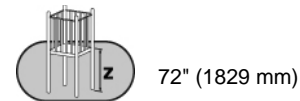
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



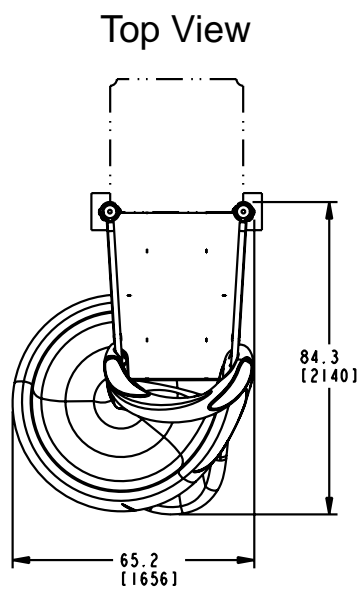
Elevation Views
CH3537



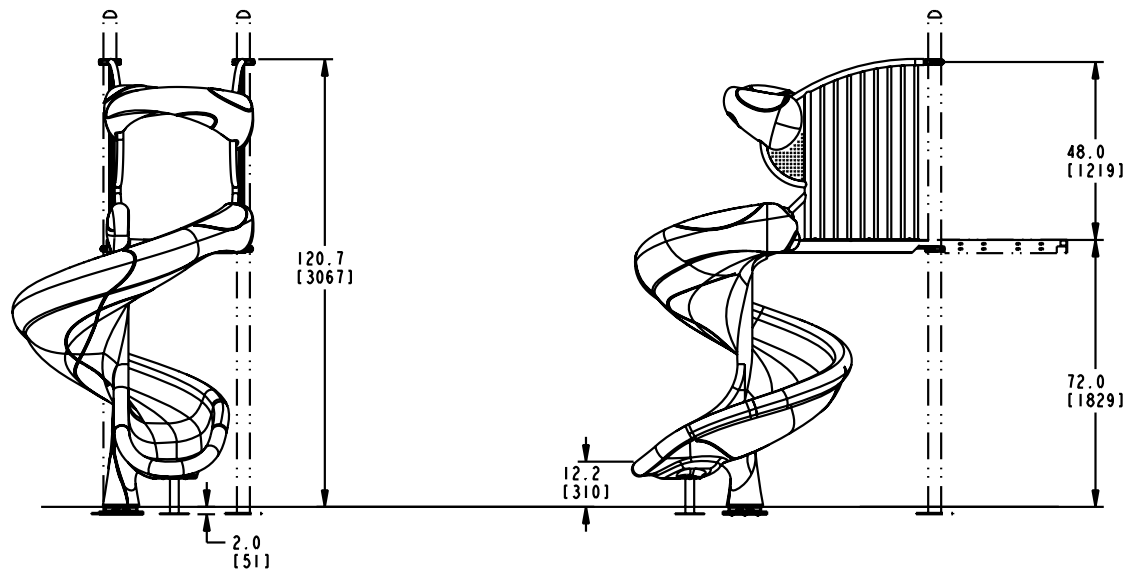
Footing Diagram
(Both Models)



Installation Instructions



KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

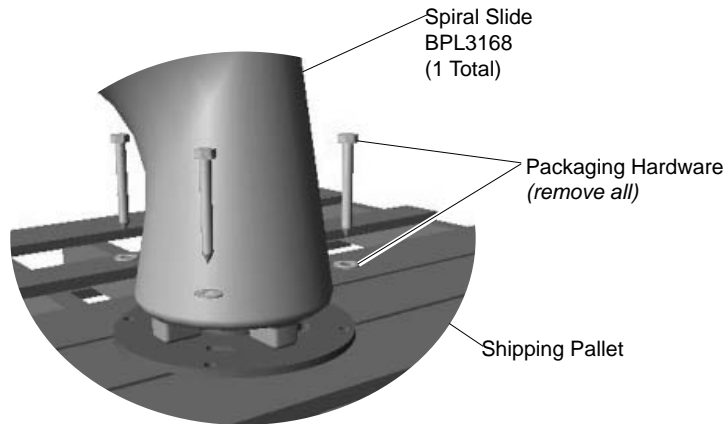


Elevation Views
CH3537S



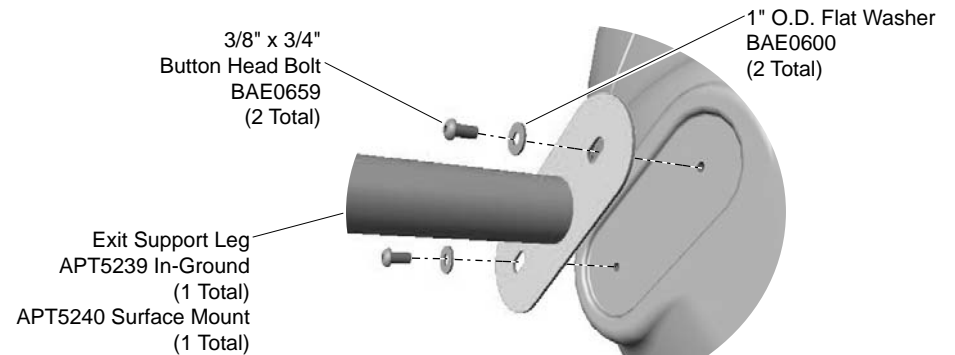
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 11.

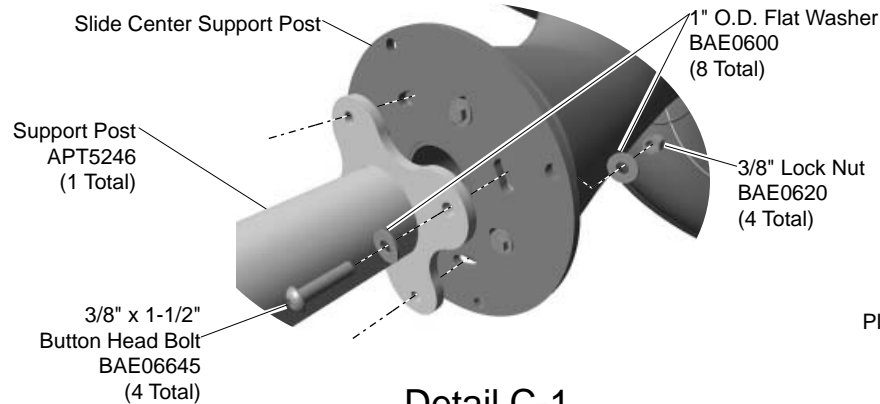
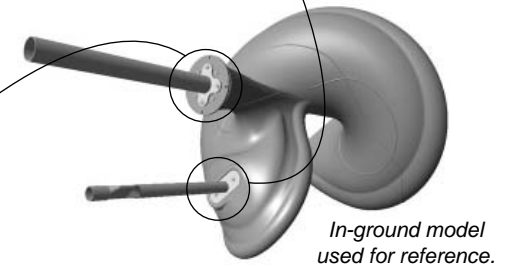


Detail A
Step 4

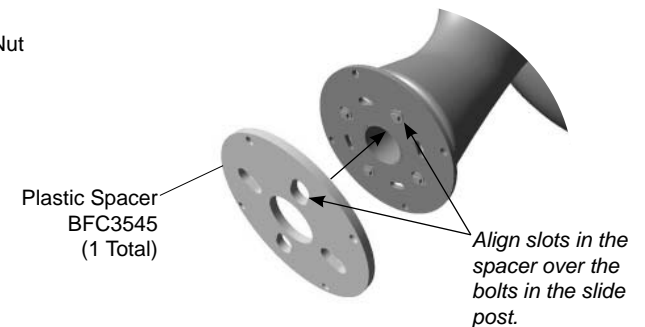
Remove the slide from the shipping pallet and lay on it's side.



Detail B



Detail C-1
(In-ground model only)



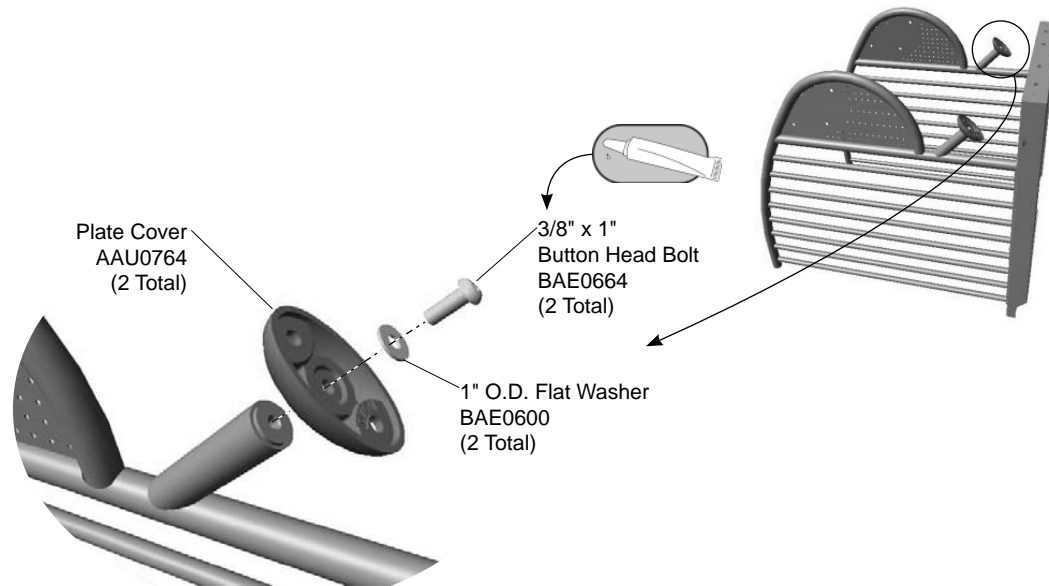
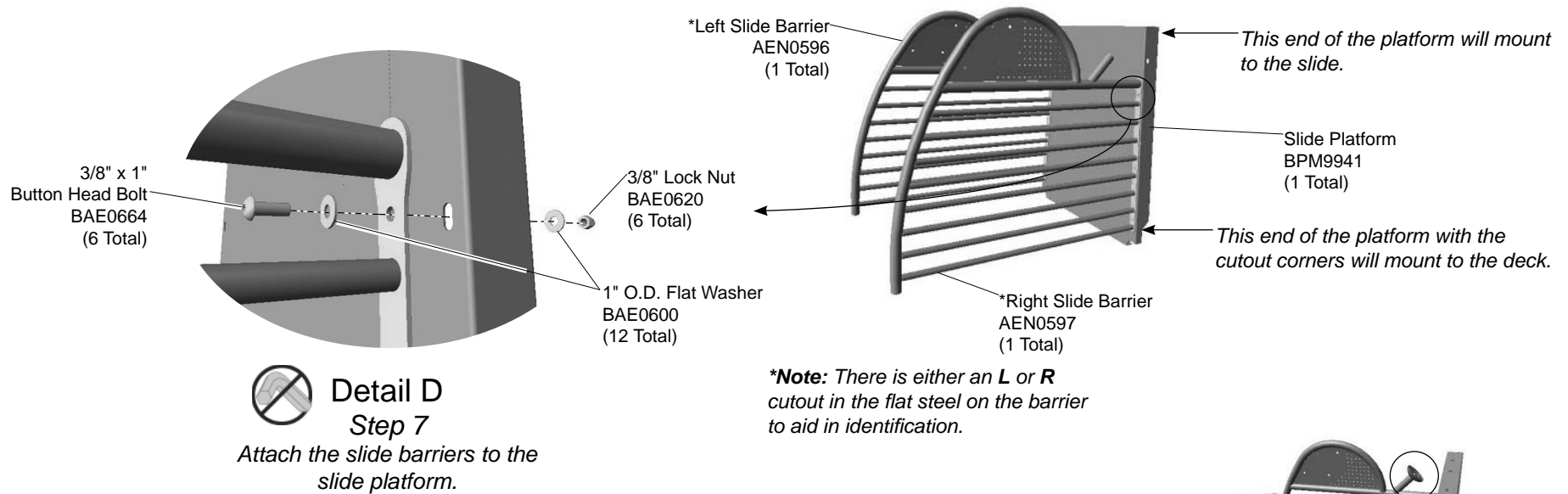
Detail C-2
(Surface mount model only)



Details B & C-1 & C-2
Steps 5 and 6

Attach the exit support leg and support post to the slide.

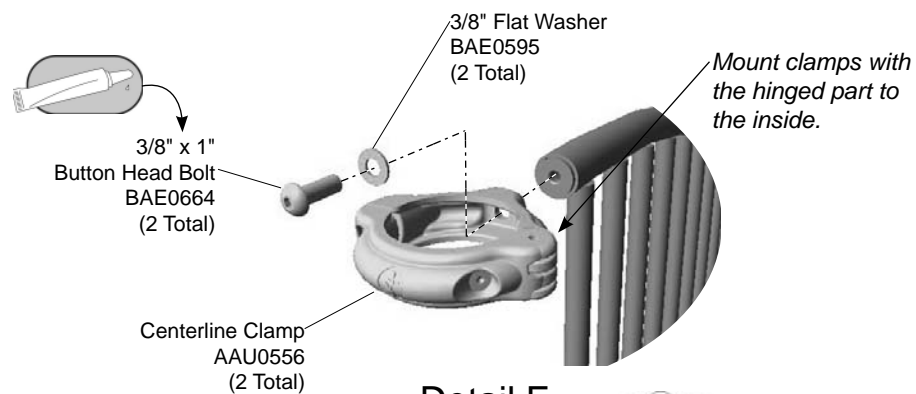
Installation Instructions



Detail E **Step 8**

Attach the plate covers to the slide barriers.

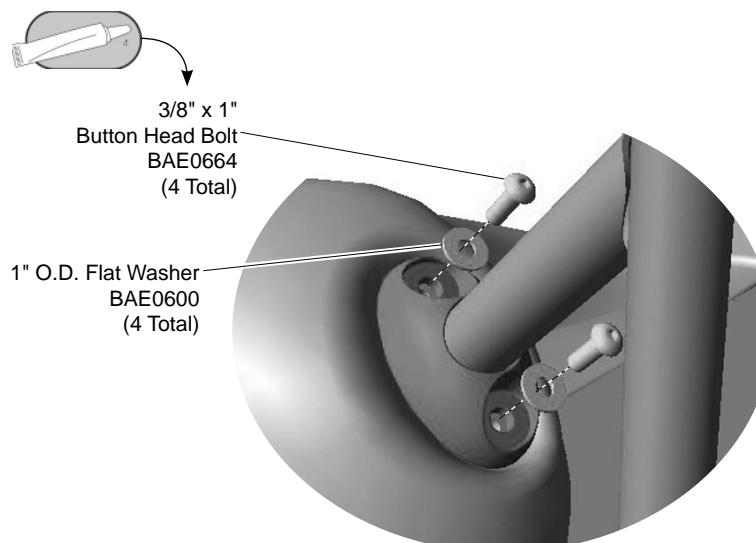
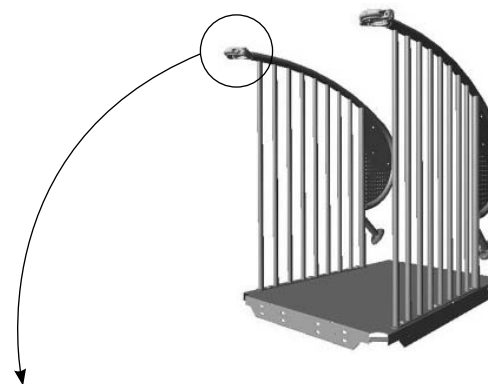
Installation Instructions



Detail F

Step 9

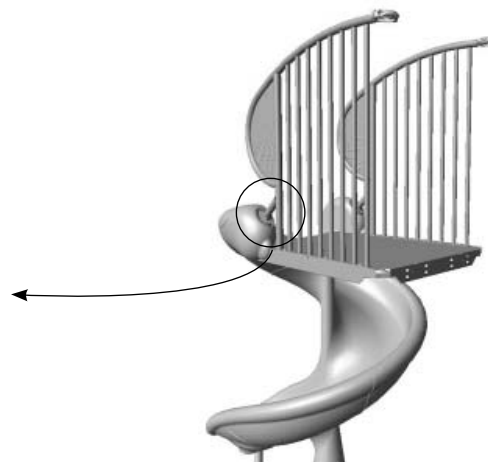
Attach the centerline clamps to
the slide barriers.



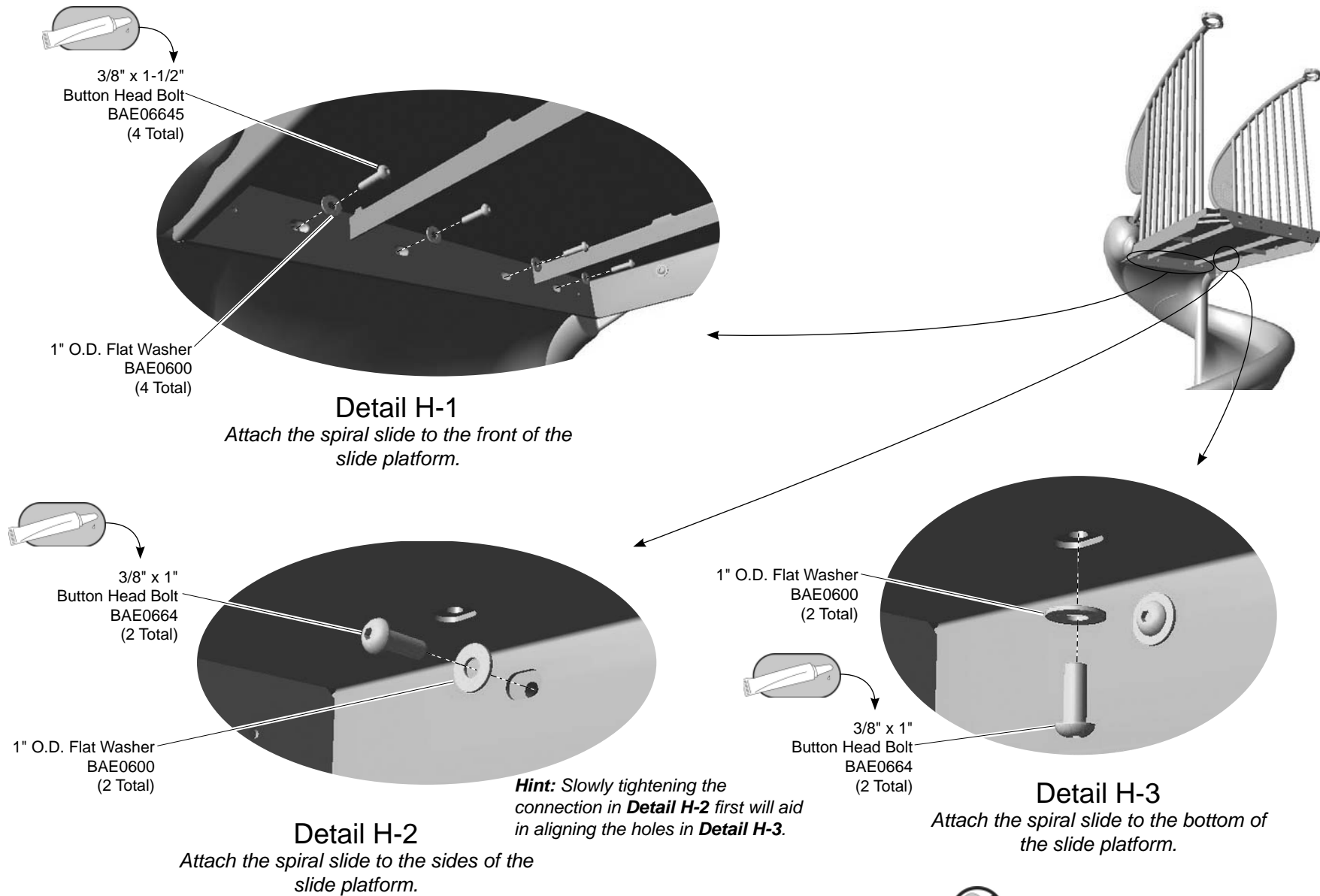
Detail G

Step 10

Attach the spiral slide to the barriers.



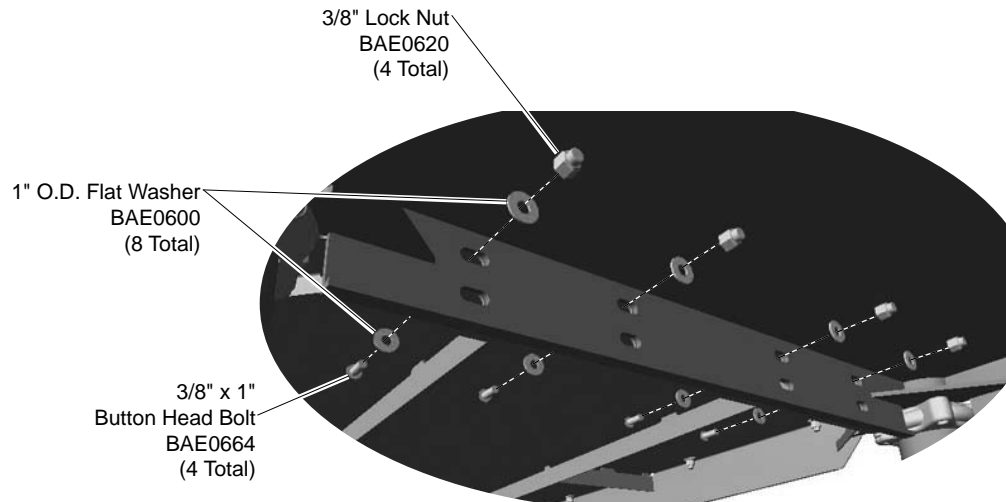
Installation Instructions



Details H-1, H-2 and H-3
Step 11
Attach the spiral slide to the slide platform.



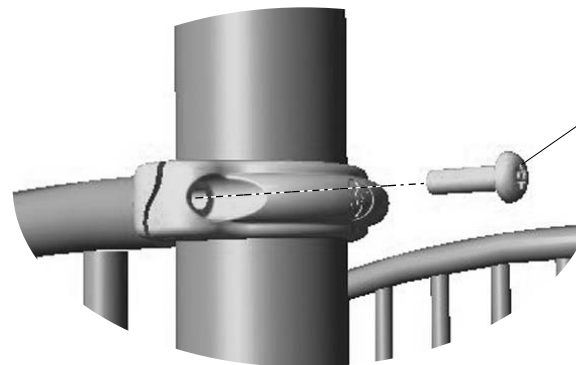
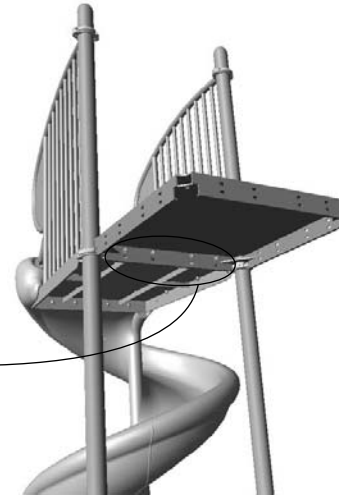
Installation Instructions



Detail I
Step 12



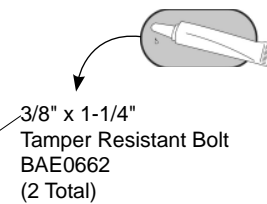
Attach the slide assembly to the deck.



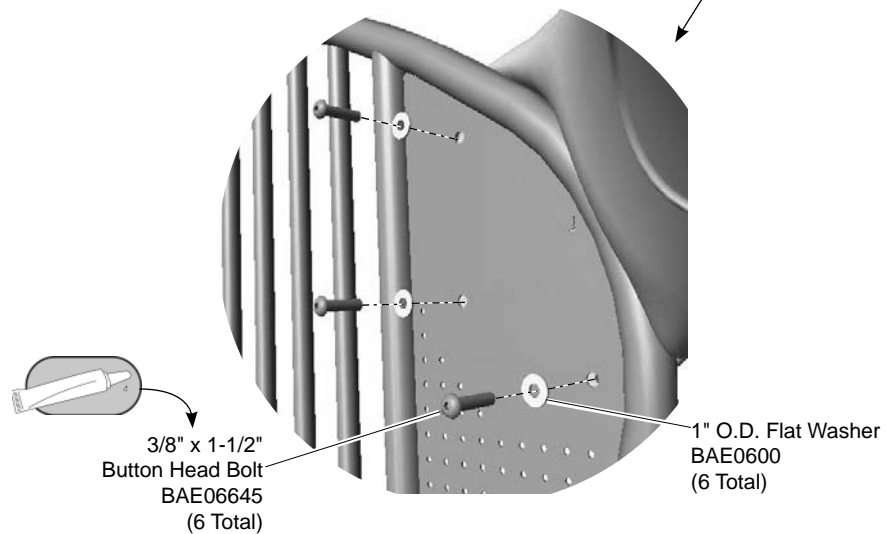
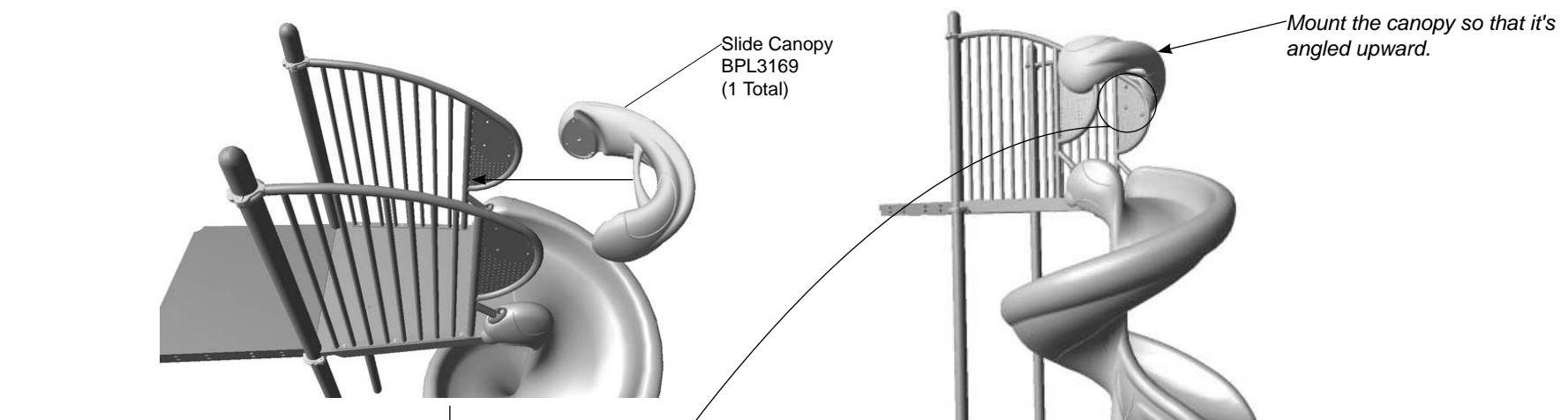
Detail J
Step 13



*Attach the barrier clamps to the
support posts.*

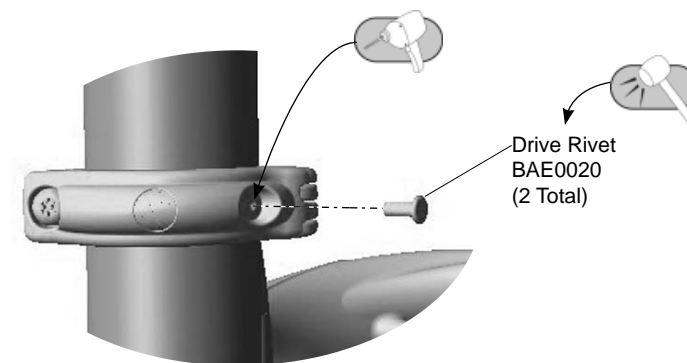


Installation Instructions



Detail K
Step 14

Attach the slide canopy to the slide barriers.

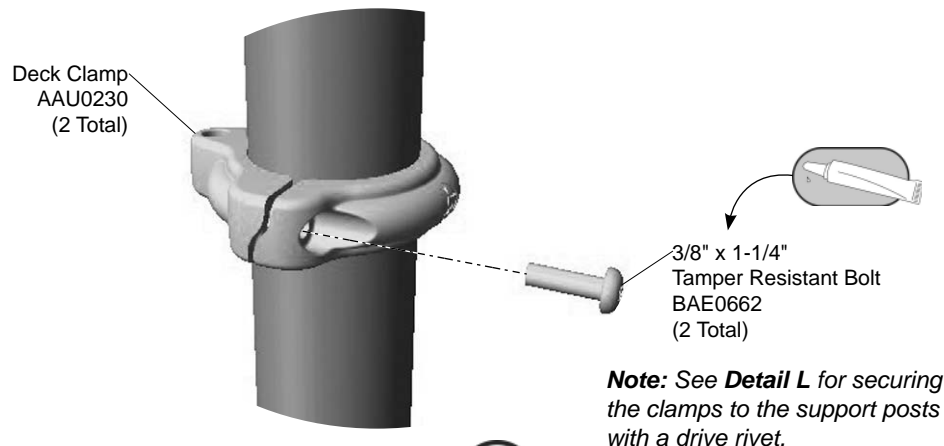


Detail L
Step 16

Secure the clamps to the support posts.

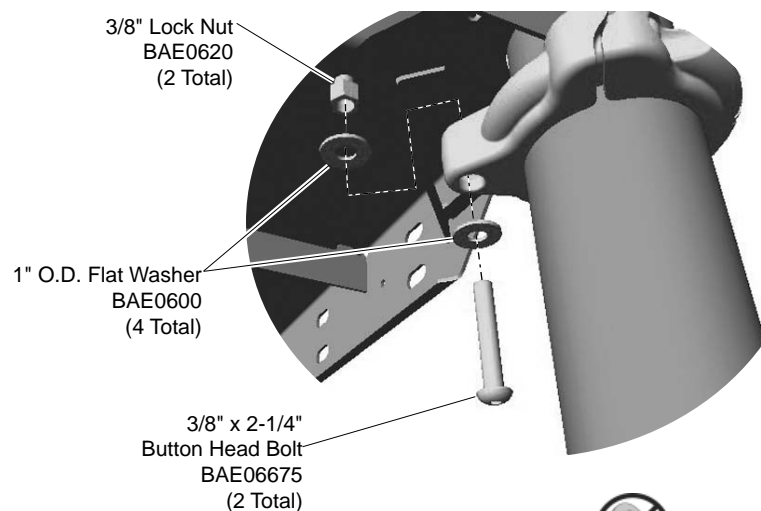
Installation Instructions

ADDITIONAL INSTRUCTIONS



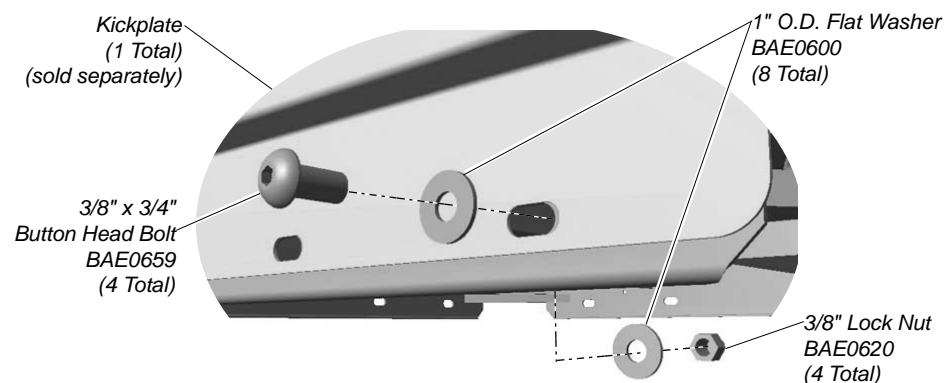
Detail M
Step 1

Attach the deck hanger clamps to the support posts.



Detail N
Step 2

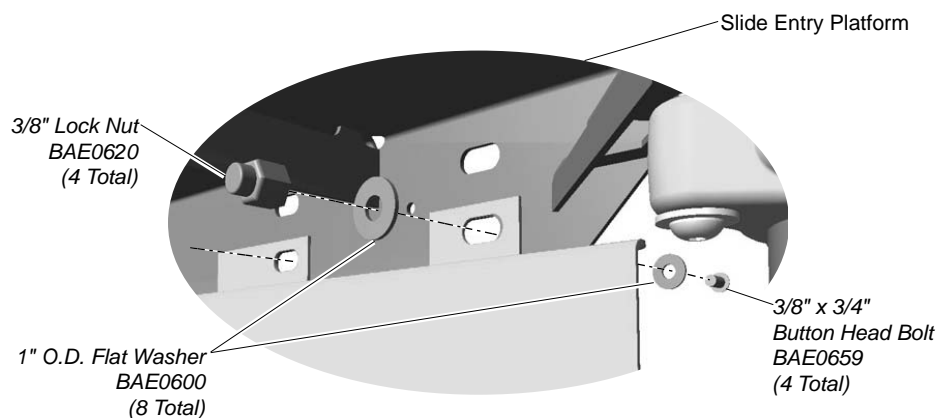
Attach the slide entry platform to the deck hanger clamps.



Detail O
Step 3

Attach the kickplate to the lower deck.

Note: The Kickplate is shown here. If you have the Deck To Deck Climber please refer to the appropriate install. Hardware shown in Details O and P is supplied with the kickplate.



Detail P
Step 4

Attach the kickplate to the slide entry platform (lower hole connections).

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Footings Details** show in the *Guidelines* at the beginning of this instruction booklet.

(*In-ground model*): For the slide support post, reference the **Support Post Footing Detail** and for the slide exit leg reference the **Component Footing Detail**.

Step 4: Unbolt the slide from the shipping pallet. See **Detail A**. Remove the slide from the pallet and lay the slide down on the ground.

Step 5: Attach the exit support leg to the bottom of the slide. See **Detail B**. Place the support leg into the indent on the bottom of the slide exit. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the torque specifications (See **Final Details**).

Step 6: Attach the support post to the bottom of the slide center support post (*in-ground model*). See **Detail C-1**. Align the mounting holes in the plate of the support post with the slots in the center support post and attach as shown. Fully tighten the connections according to the torque specifications. For the *surface mount* model a plastic spacer is provided and should be placed under the slide center post with the slots in the spacer over the hardware in the center post. See **Detail C-2**.

Step 7: Attach the slide barriers to the slide platform. See **Detail D**. Position each barrier against the top of the platform and attach as shown. Note the placement of the barriers is to the end of the platform with the cutout corners.

Step 8: Attach the plate covers to the slide barriers. See **Detail E**. Position a plate cover against each short protrusion on the bottom of the front rung on the barriers, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the torque specifications.

Step 9: Attach the centerline clamps to the slide barriers. See **Detail F**. Position a clamp against the top rail on each barrier, *with the hinges facing in*, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections according to the torque specifications.

Step 10: Attach the spiral slide to the barriers. See **Detail G**. Position the platform assembly against the top of the spiral slide with the barrier plate covers seated in the recessed sections in the spiral slide. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 11: Attach the spiral slide to the slide platform. See **Details H-1, H-2 and H-3**. Align the holes in the spiral slide with those in the slide platform, apply a drop of thread locking adhesive to the bolt threads, and attach as shown to the front, bottom and sides of the platform.

Attach the slide assembly to the structure deck.

Important note: Due to the weight of the assembly it is recommended that (4) four average sized adults perform **Steps 12 and 13**. *If attaching the assembly to a kickplate and entry support bracket on a lower deck, refer to instructions accompanying those items and the additional Details on pages 10 and 11 of these instructions.*

Step 12: Attach the slide assembly to the deck. See **Detail I**. Position the slide platform against the structure deck, close the clamps on the barriers around the support posts, and attach the platform to the deck as shown.

Step 13: Attach the barrier clamps to the support posts. See **Detail J**. Apply a drop of thread locking adhesive to the bolt threads, and attach the clamps to the support posts as shown.

Step 14: Attach the slide canopy to the slide barriers. See **Detail K**. Position the canopy over the barriers so that it's angled upward, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Installation Instructions

Final Details.

Step 15: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 16: Install drive rivets. See **Detail L**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head. This step will also apply to the deck hanger clamps used in **Detail M**.

Note: This step should be executed after structure has been assembled and properly footed.

Step 17: Apply the hood string entanglement warning label to the equipment at eye level.

Additional instructions and details for connection of the slide to a kickplate (sold separately) on a lower structure deck.

Note: The *Kickplate* is shown. If you have the *Deck To Deck Climber* please refer to the appropriate install.

Step 1: Attach the deck hanger clamps to the support posts. See **Detail M**. Position the clamps around the support post at the appropriate height, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Portion of the clamp that will accept the slide platform should be to the inside of the posts.

Step 2: Attach the slide entry platform to the deck hanger clamps. See **Detail N**. Position the cutout corners of the platform on top of the deck hanger clamps and attach as shown. Platform will need to be supported during the following steps.

Step 3: Attach the kickplate to the lower deck. See **Detail O**. Align the kickplate with the holes in the deck and attach as shown.

Step 4: Attach the kickplate to the slide entry platform (*lower hole connections*). See **Detail P**. Align the slide entry platform with the kickplate. Insert each bolt through the lower holes of the slide platform and attach as shown.

Hint: Use an alignment tool to help keep the platform and kickplate aligned until several connections have been made.

Step 5: Continue attaching the slide to the slide platform (*Steps 13 - 14*). Follow remainder of instructions.

CH3537 - NUVO™ 360° SPIRAL SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0230	CLAMP - 3-1/2" DECK DIE CAST	2
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
AAU0764	CASTING - 1.66" O.D. TUBING PLATE COVER	2
AEN0596	BARRIER - SPIRAL SLIDE - LEFT	1
AEN0597	BARRIER - SPIRAL SLIDE - RIGHT	1
APT5239	POST - 31.87" EXIT SUPPORT	1
APT5246	POST - 34.38" x 6.81" x 6.81"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	54
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	14
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	2
BPL3168	SLIDE - NUVO 360° SPIRAL SLIDE	1
BPL3169	CANOPY - 360° SPIRAL SLIDE	1
BPM9941	PLATFORM - NUVO SPIRAL SLIDE - CH	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

CH3537S - NUVO™ 360° SPIRAL SLIDE SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0230	CLAMP - 3-1/2" DECK DIE CAST	2
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
AAU0764	CASTING - 1.66" O.D. TUBING PLATE COVER	2
AEN0596	BARRIER - SPIRAL SLIDE - LEFT	1
AEN0597	BARRIER - SPIRAL SLIDE - RIGHT	1
APT5240	POST - 9.87" SURFACE MOUNT EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	46
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	10
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	2
BFC3545	SHEET - 12.00" DIA x .50"	1
BPL3168	SLIDE - NUVO 360° SPIRAL SLIDE	1
BPL3169	CANOPY - 360° SPIRAL SLIDE	1
BPM9941	PLATFORM - NUVO SPIRAL SLIDE - CH	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View



Sword Button
(example of one
of eight buttons)

Installation Instructions

Challengers® Model CH8559

Sunken Treasure Hunt (Deck Mount)

Installation Preparation

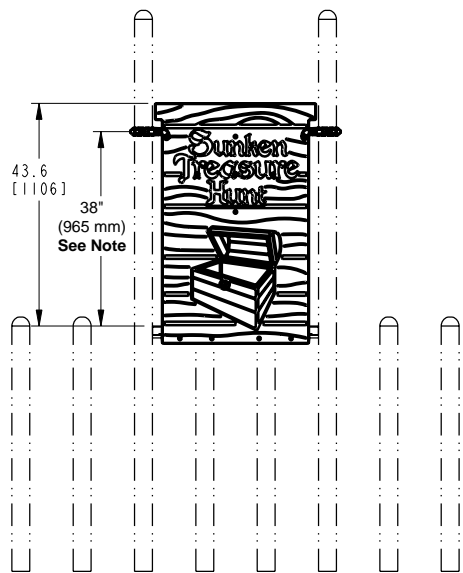
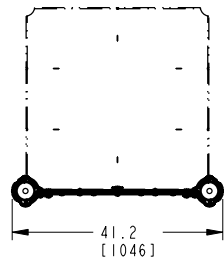
- Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Weight: *41.4 lbs. (18,8 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14
- *Weights are approximate for determining manpower.*

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

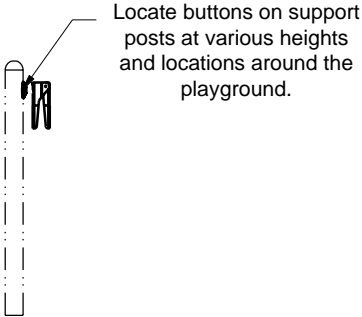
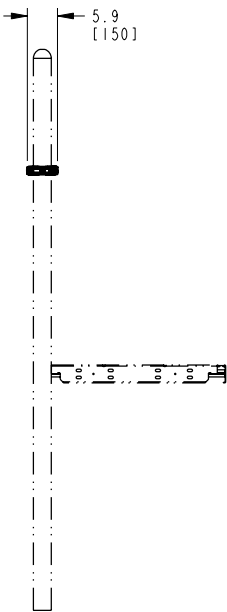
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Note: Dimension 38" (965 mm) for clamp adaptor positioned as shown in the details. The panel will be mounted to the lower set of deck holes. In case of clamp conflict, adaptor can be flipped. Dimension for flipped adaptor is 36.5" (927 mm).

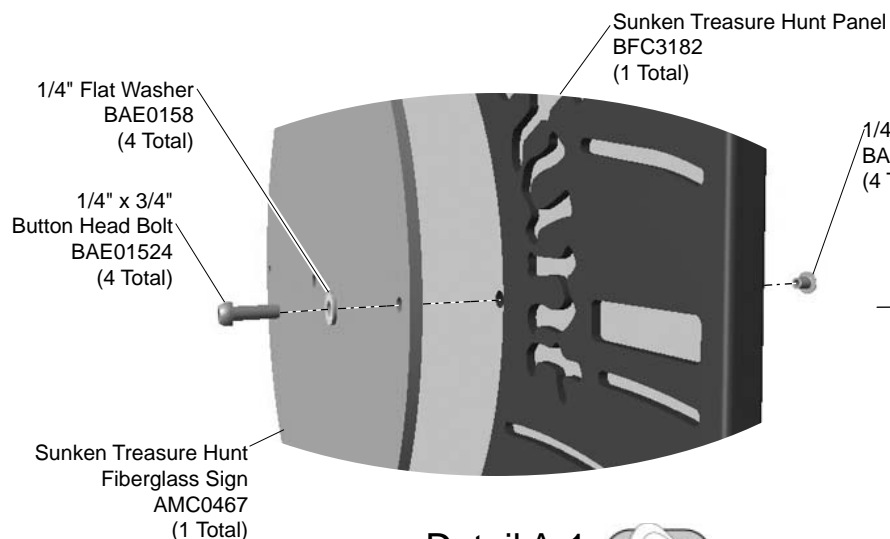


Elevation Views



Installation Instructions

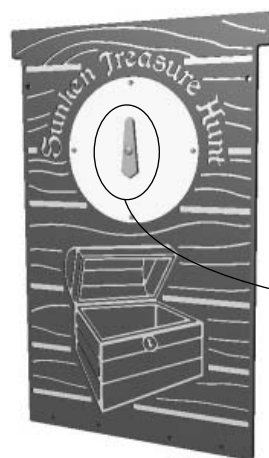
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A-1

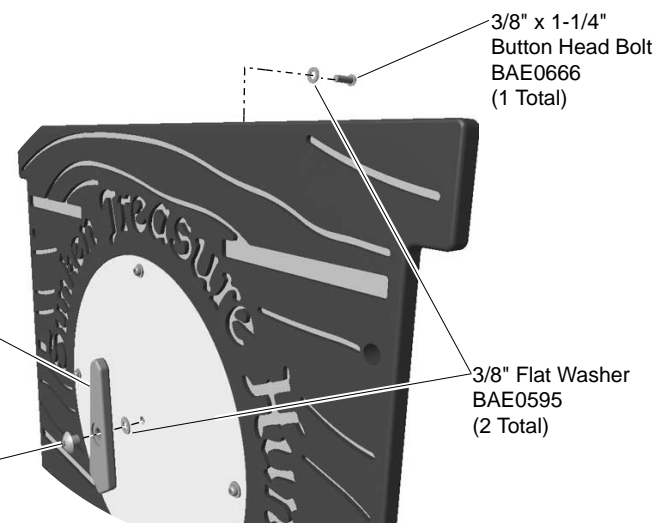
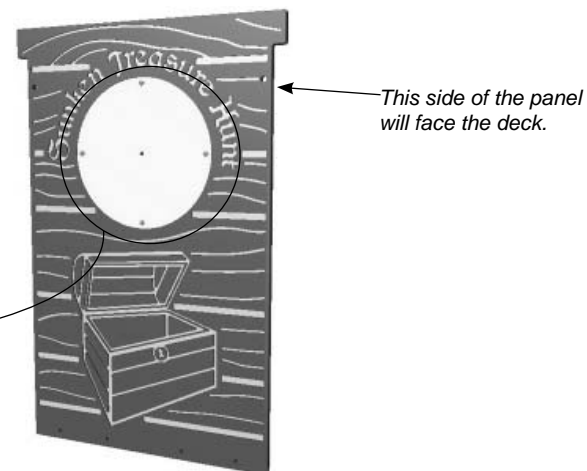
Step 3

Attach the fiberglass sign to the panel.



Plastic Spinner
BFC3194
(1 Total)

3/8" Button Head Nut
BAE0663
(1 Total)

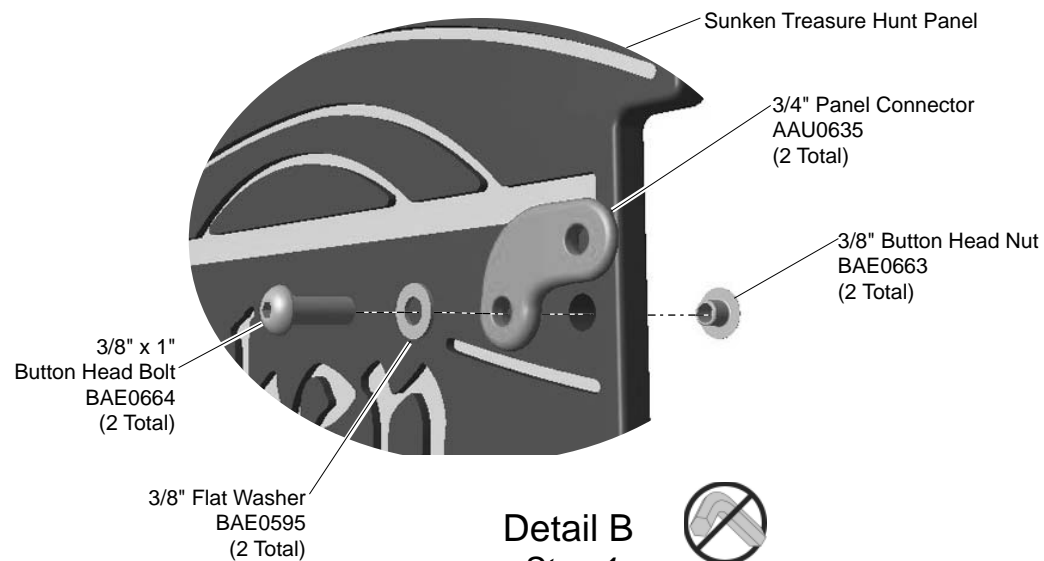


Detail A-2

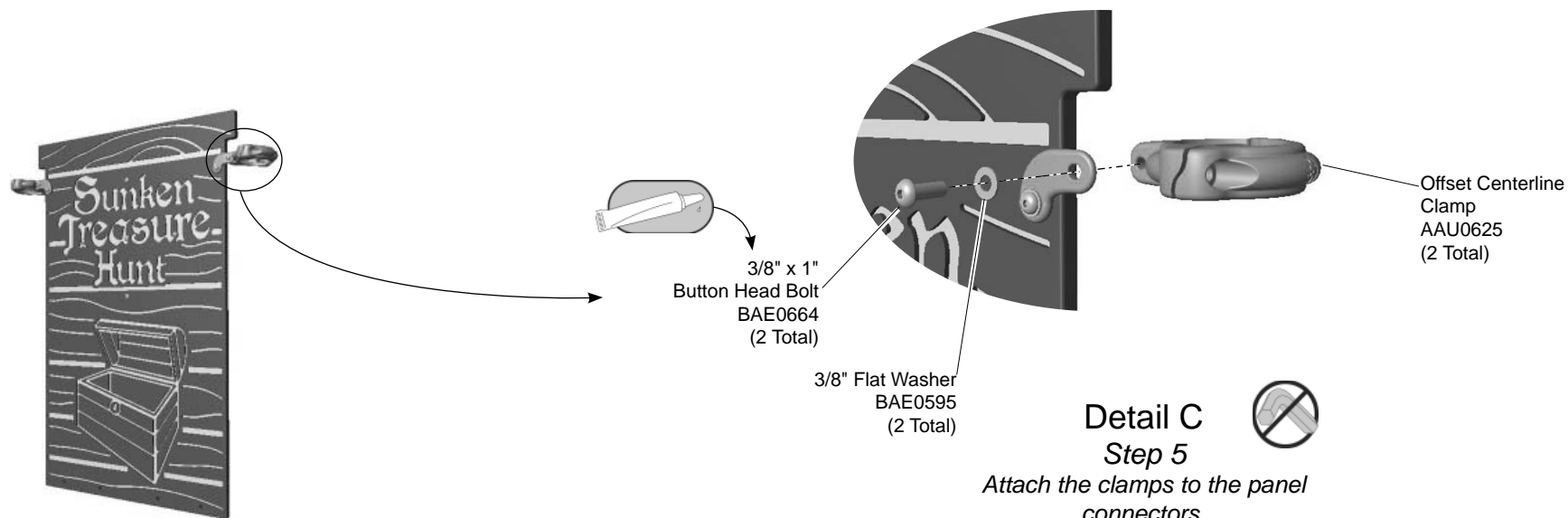
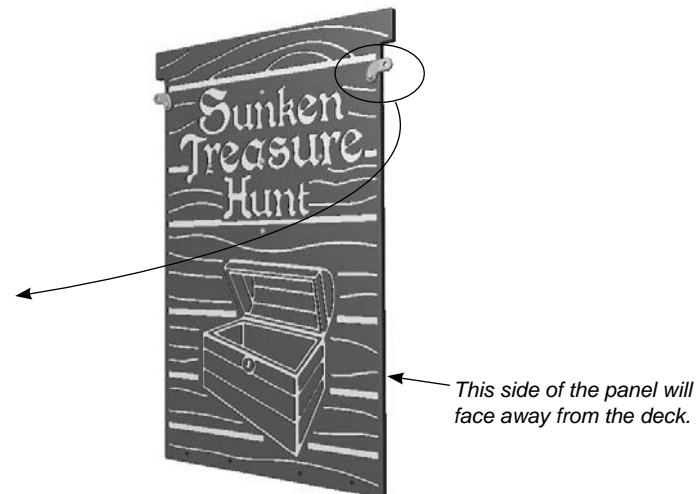
Step 3

Attach the spinner to the panel.

Installation Instructions

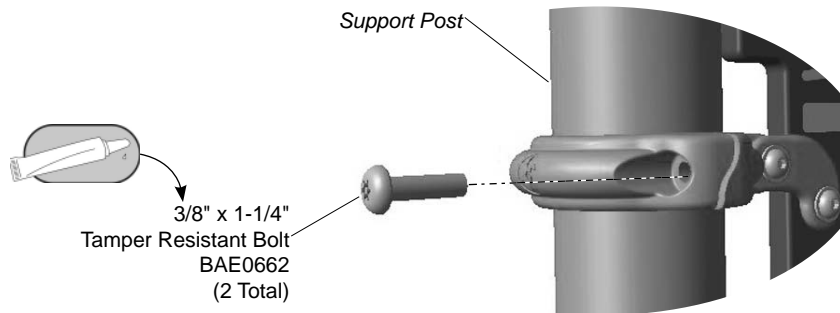


Detail B
Step 4
Attach the panel connectors to the panel.

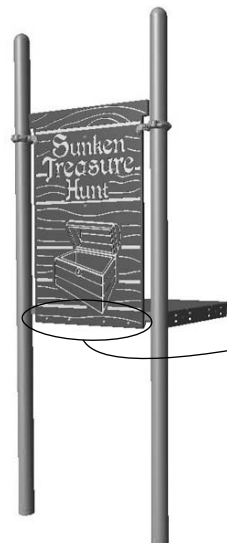
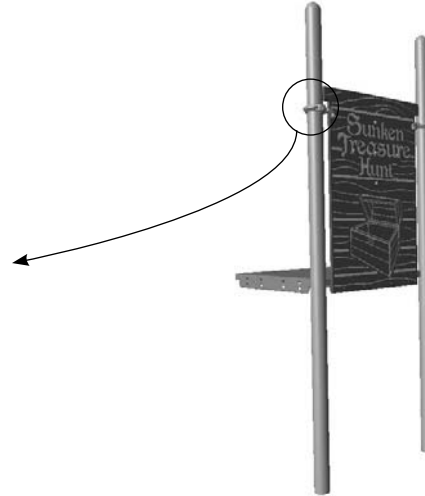


Detail C
Step 5
Attach the clamps to the panel connectors.

Installation Instructions



Detail D
Step 6
*Attach the panel to the
support posts.*

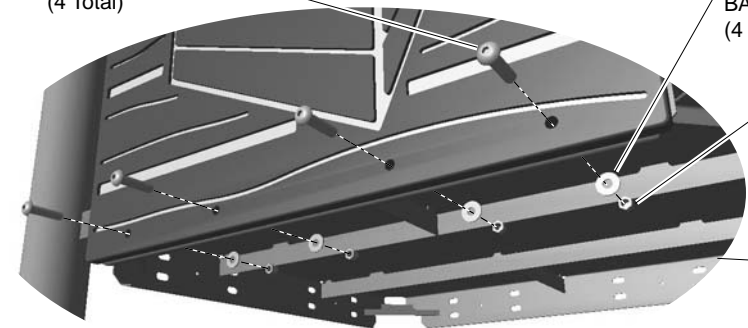


3/8" x 1-1/2"
Button Head Bolt
BAE06645
(4 Total)

1" O.D. Flat Washer
BAE0600
(4 Total)

3/8" Lock Nut
BAE0620
(4 Total)

Deck



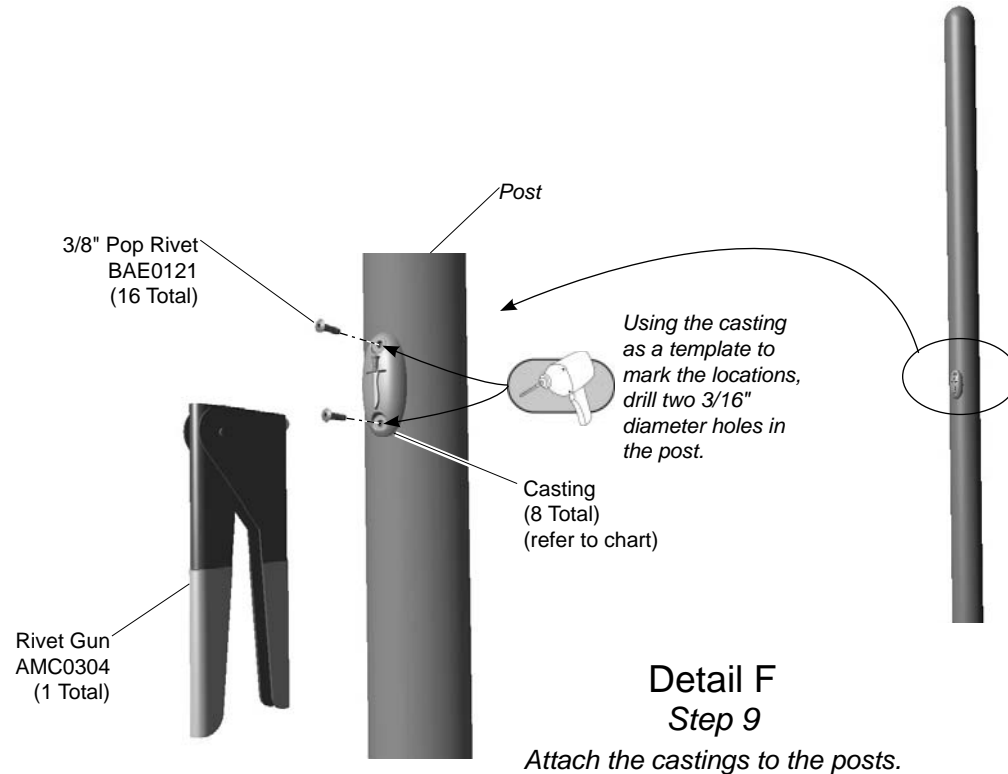
Detail E
Step 7



Attach the panel to the deck.

Note: The panel can be attached to the
upper or *lower* deck holes depending on
clamp conflict.

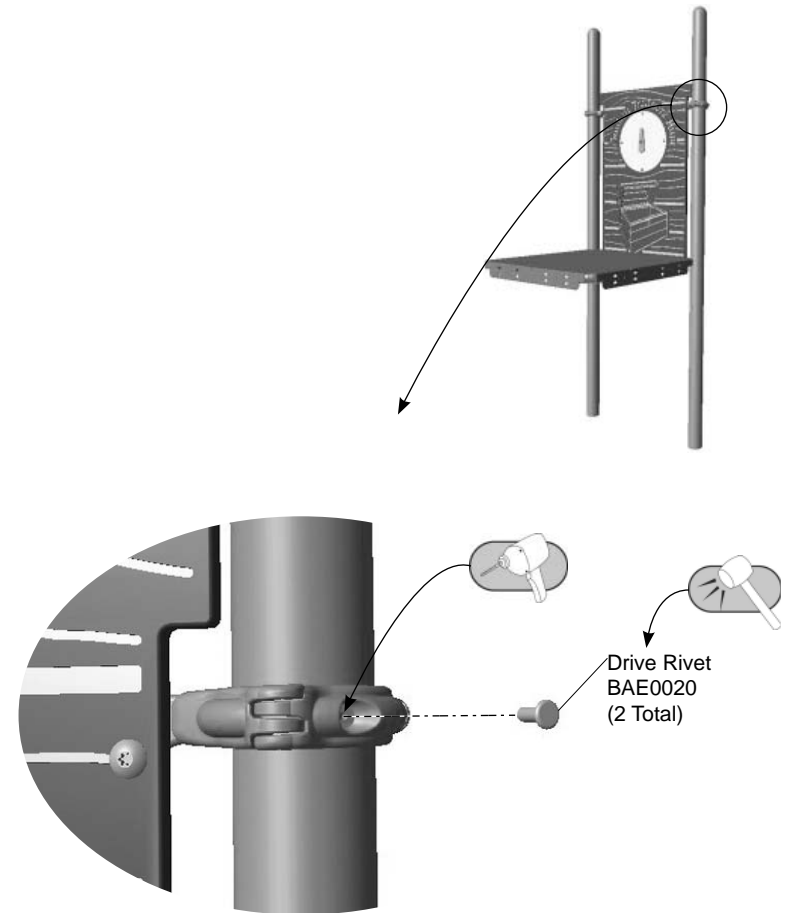
Installation Instructions



Detail F
Step 9

Attach the castings to the posts.

Shape	Casting Part Number
Key	AAU0692
Diamond	AAU0693
Coin	AAU0694
Shield	AAU0695
Ring	AAU0696
Sword	AAU0697
Crown	AAU0698
Ruby	AAU0699



Detail G
Step 10
*Secure the clamps to the
support posts.*

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise specified.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the fiberglass sign and spinner to the panel. See **Details A-1** and **A-2**. Position the fiberglass sign in the cutout section of the panel and attach as shown. Position the plastic spinner to the center of the sign and attach to the panel as shown. Fully tighten the connections according to the torque tightening specifications listed in the **Final Details**.

Step 4: Attach the panel connectors to the panel. See **Detail B**. Position the short leg on each panel connector against a top hole in the side of the panel that will face out from the deck. Align the connectors with the holes and attach as shown. Leave the connections loose.

Step 5: Attach the clamps to the panel connectors. See **Detail C**. Place the flat side of each clamp against the deck side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave the connections loose for alignment adjustment.

Step 6: Attach the panel to support posts. See **Detail D** and **Elevation View**. Position the panel between the support posts and close the clamps around the support post at the height indicated. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel. Both clamps should be mounted at the same height.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Step 7: Attach the panel to the deck. See **Detail E**. Attach the panel to the deck as shown.

Note: The panel can be attached to the *upper* or *lower* deck holes depending on clamp conflict.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Attach the castings to support posts.

Step 9: Attach the castings to the support posts. See **Detail F**. Choose various locations around the playground to locate the castings. Using the supplied 3/16" drill bit, drill a hole in the post at the appropriate location and insert a pop rivet through the casting into the post using the standard rivet gun supplied.

Step 10: Install drive rivets in the clamps. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

ZZCH8559 - SUNKEN TREASURE HUNT (DECK MOUNT)

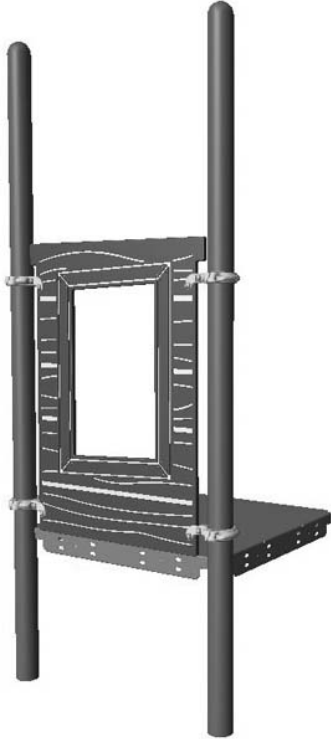
PART NO.	DESCRIPTION	QTY.
AAU0625	CLAMP - 3-1/2" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AAU0692	CASTING - KEY	1
AAU0693	CASTING - DIAMOND	1
AAU0694	CASTING - COIN	1
AAU0695	CASTING - SHIELD	1
AAU0696	CASTING - RING	1
AAU0697	CASTING - SWORD	1
AAU0698	CASTING - CROWN	1
AAU0699	CASTING - RUBY	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0467	SIGN - TREASURE HUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0121	RIVET - 3/16" x .56 ALUM POP (.251" - .375" GRIP RANGE)	16
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	3
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	1
BAE1668	MISC - 3/16" DRILL BIT	1
BFC3182	SHEET - SUNKEN TREASURE HUNT (DECK MOUNT)	1
BFC3194	SHEET - TREASURE HUNT SPINNER	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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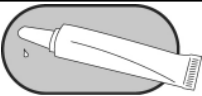

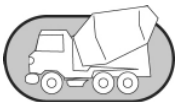
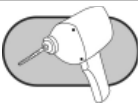


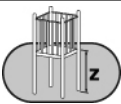


Assembly View

Installation Instructions
Challengers® Model CH8569
Nautical Walk Thru Panel

Installation Preparation

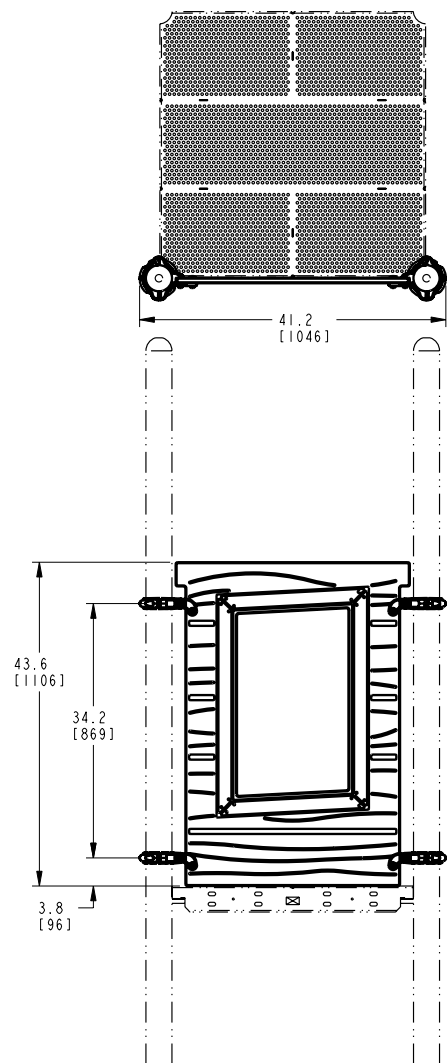
Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Weight: 29.3 lbs. (13,3 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

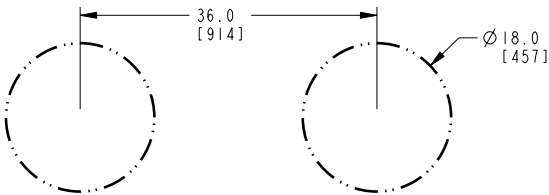
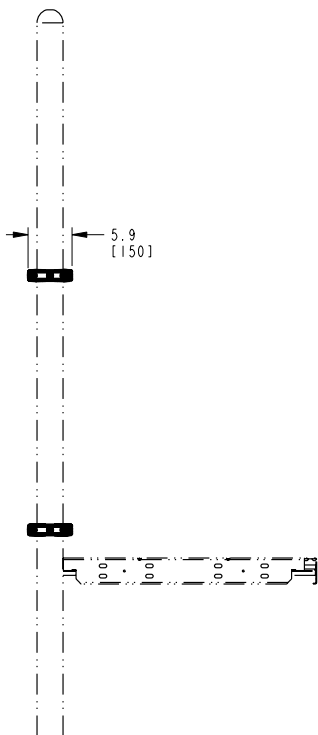
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Elevation Views

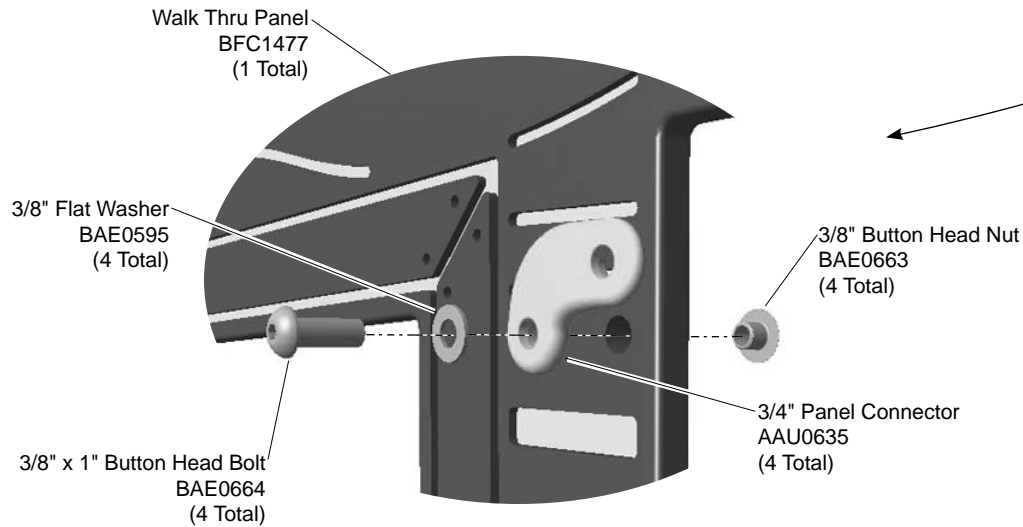


Footing Diagram

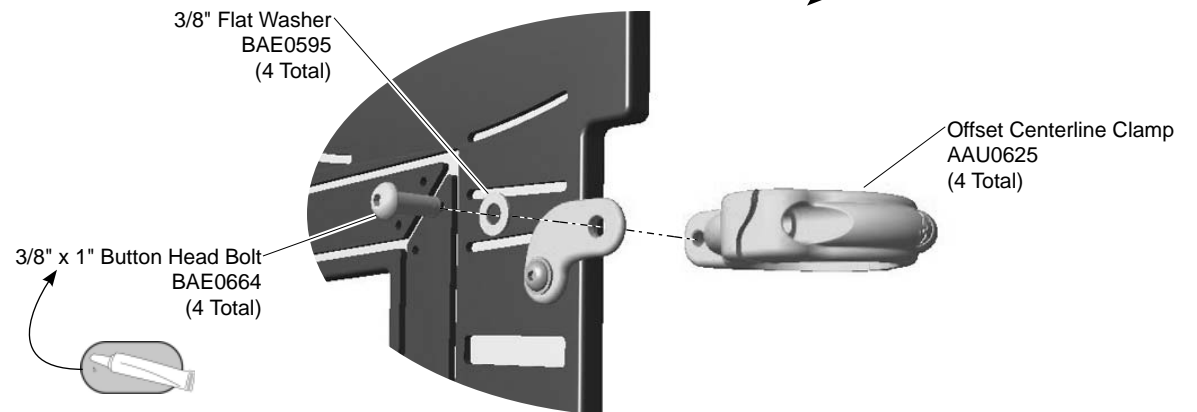


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

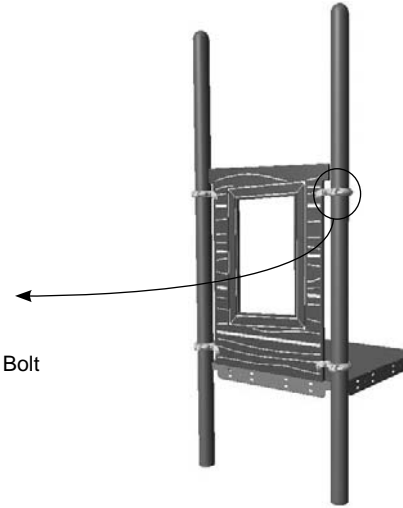
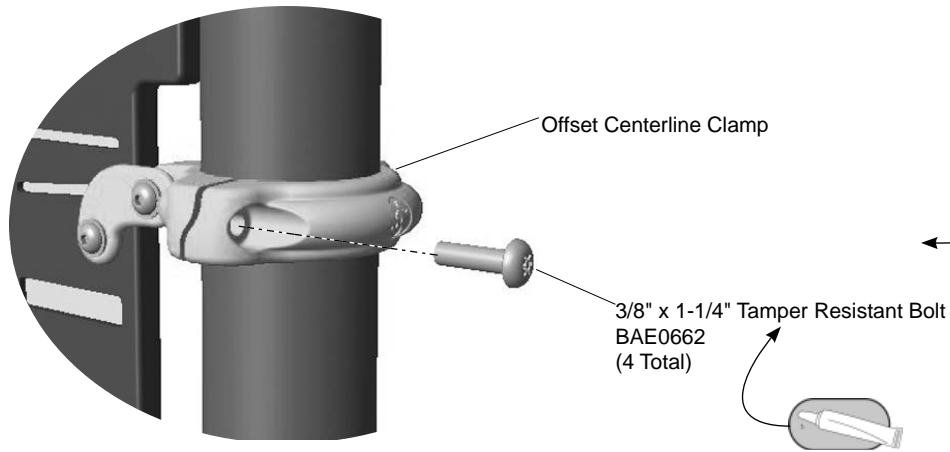


Detail A
Step 3
Attach the panel connectors to the half panel.



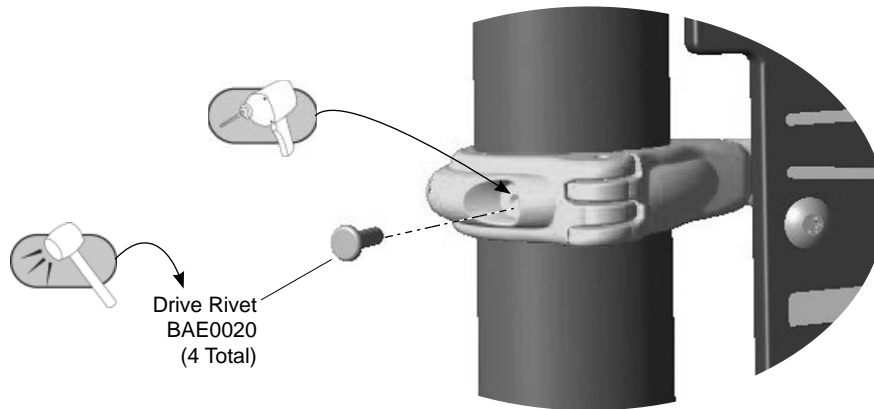
Detail B
Step 4
Attach the clamps to the panel connectors.

Installation Instructions



Detail C Step 5

Attach the clamps to the support posts.



Detail D Step 7

Secure the clamps to the support posts.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise specified.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Determine the location of the placement of the panel by referring to the master layout drawing.

Step 3: Attach the panel connectors to the panel. See **Detail A**. Position the connectors against the *non deck* side of the panel and attach as shown.

Step 4: Attach the clamps to the panel connectors. See **Detail B**. Position the flat side of each clamp against the open end of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Hinged section of the clamp should be to the *deck* side of the panel.

Step 5: Attach the panel to the support posts. See **Detail C**. Position the clamps around the post at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be rotated and reconnected to the panel. Remove the clamps before rotating the connector and reattach as before.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

CH8569 - NAUTICAL WALK THRU PANEL

PART NO.	DESCRIPTION	QTY.
AAU0625	CLAMP - 3-1/2" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BFC1477	SHEET - CRAWL THRU PANEL	1

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Assembly View

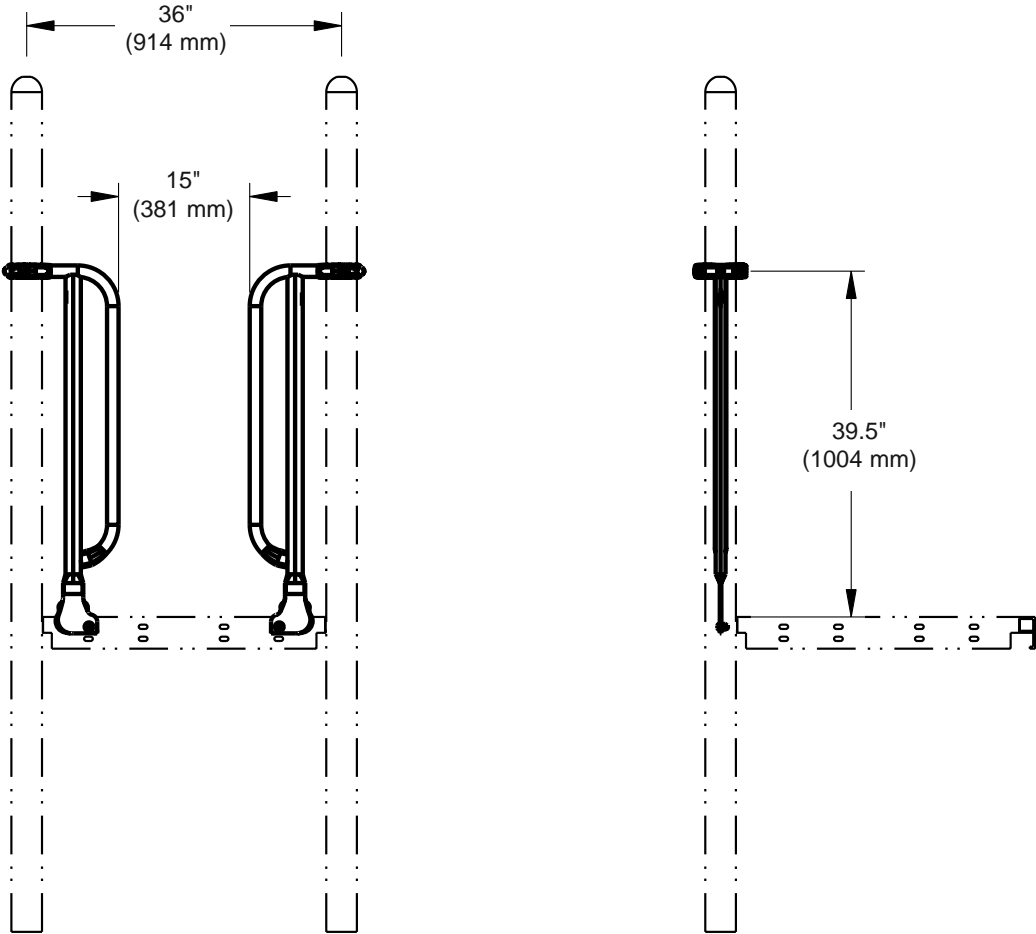
Installation Instructions
Challengers® Model CH4288
Compliance Access Gate

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 man-hours
Weight: 19 lbs. (8,6 kg)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Drill
	Hammer
	Critical Fall Height

Installation Instructions

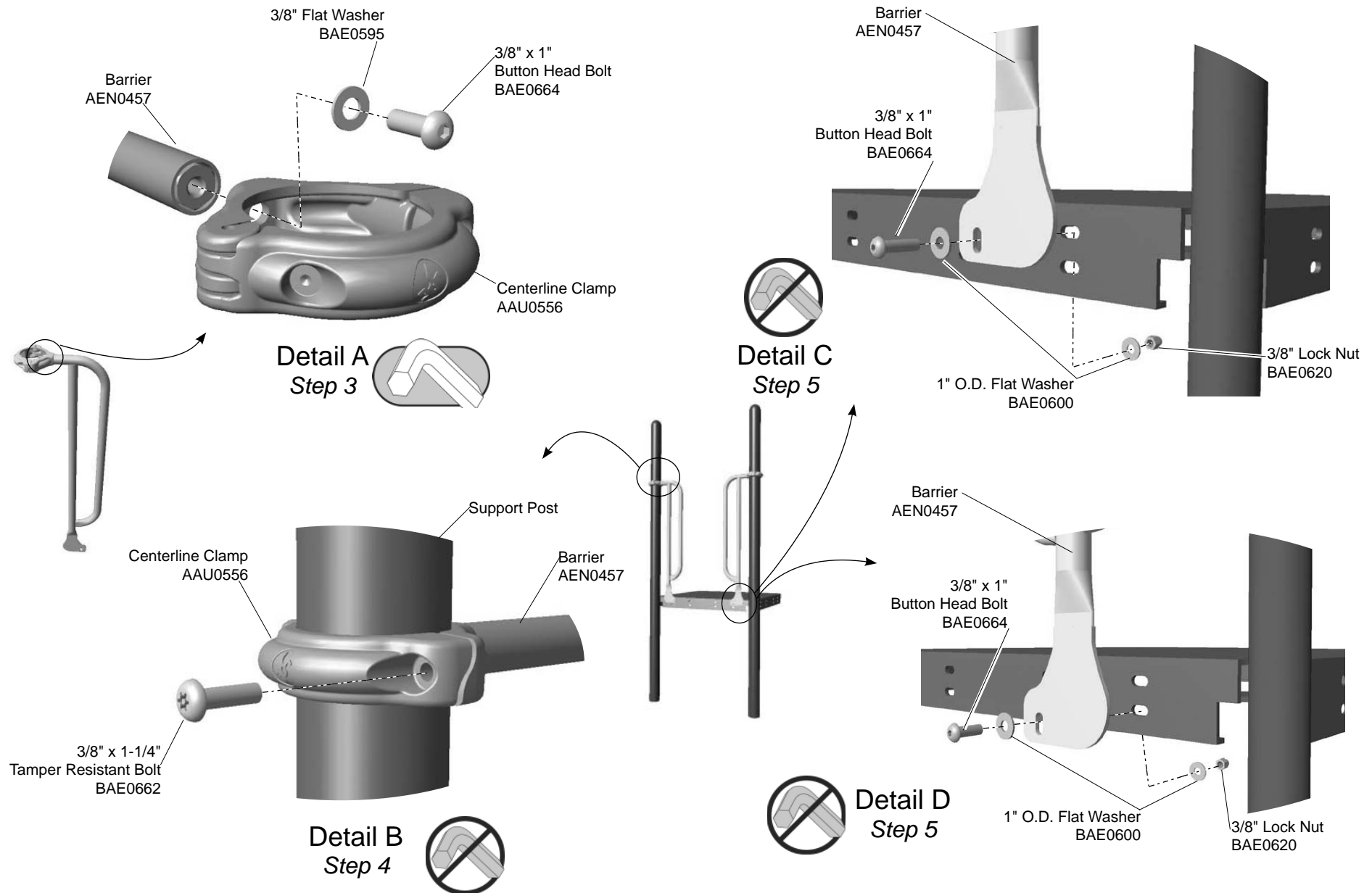


Elevation View



Installation Instructions

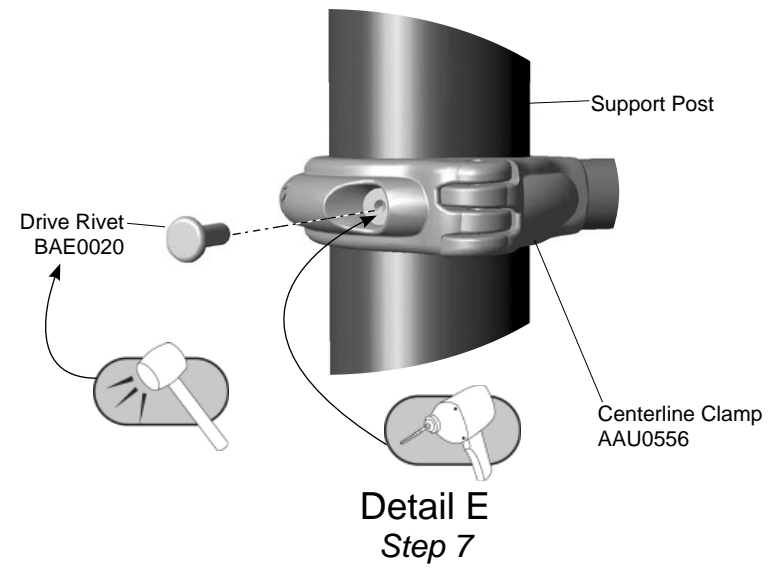
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions



Step 6



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

__Step 3: Attach the clamps to the barrier. See **Detail A**. Select both barriers, both clamps, and the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. Position a clamp against the top of each barrier and attach as shown. Fully tighten the connection.

Attach the clamps to the support posts.

__Step 4: Attach the centerline clamps to the support posts. See **Detail B**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per clamp. Lift each barrier into position against the deck and close each clamp around a support post. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Attach the barrier to the deck.

__Step 5: Attach the barrier to the deck. See **Detail C and D**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. The gate can be connected to either set of deck holes depending on the position of adjacent clamps. Align each gate tab with either the top or bottom hole in the deck and attach as shown.

Note: Both gates should be mounted at the same height.

Final Details.

__Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 7: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

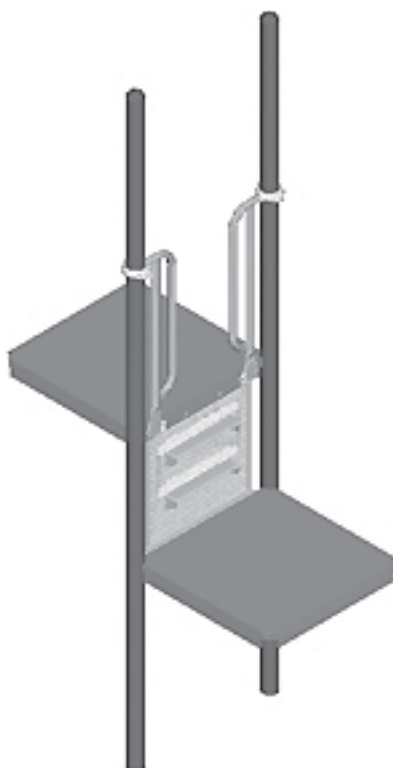
CH4288 - COMPLIANCE ACCESS GATE

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
AEN0457	BARRIER - 42.07" x 7.75"	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4



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Assembly View

View shown above is for visual reference only and may not be your configuration

Climber Height	18 in. (457 mm)	24 in. (610 mm)	30 in. (762 mm)	36 in. (914 mm)
Weight	41.1 Lbs. 18.7 Kilos	46.4 Lbs. 21.1 Kilos	54.4 Lbs. 24.7 Kilos	61.2 Lbs. 27.8 Kilos

Installation Preparation . . .

Recommended Crew: Two (2) adults

Installation Time: 1 man-hour

Weight: See table at lower left

Use Zone: Refer to the master structure drawing

User Group (ages): 2-12 years (ASTM/CSA), 2-14 (EN)

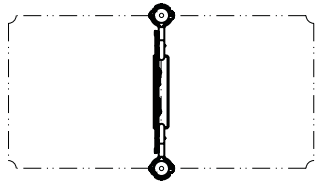
Torque Specification:

Bolts & Nuts: Snug tighten and
tighten an additional one-half turn.

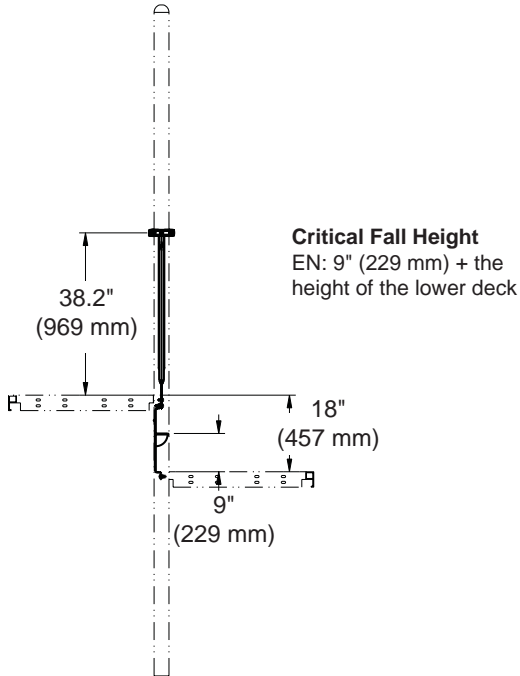
Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your location, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

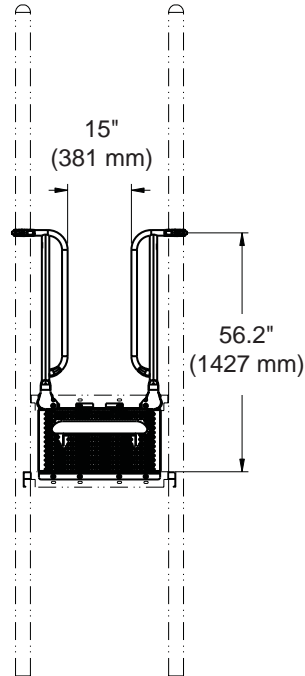
INSTALLATION INSTRUCTIONS



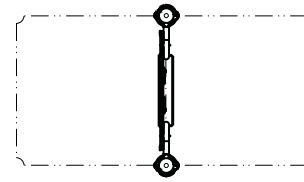
Top View



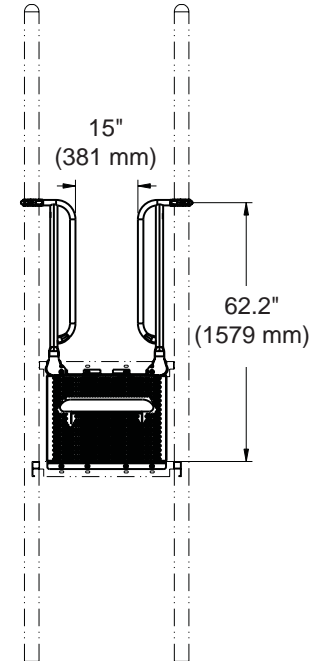
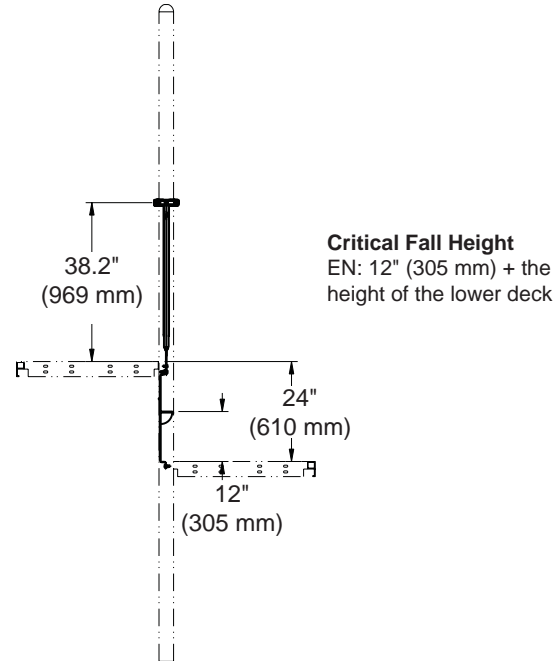
Elevation View
18 in. (457 mm) Climber



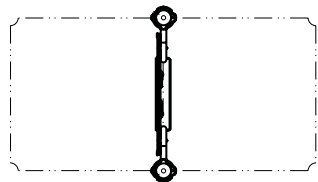
Elevation View
24 in. (610 mm) Climber



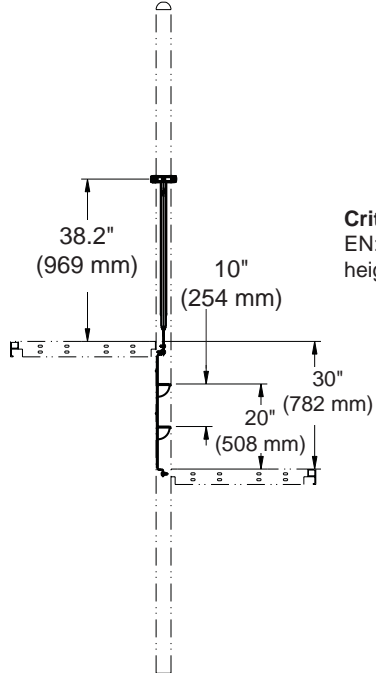
Top View



INSTALLATION INSTRUCTIONS

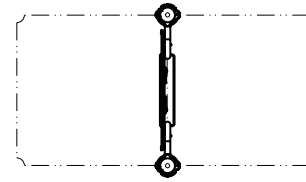
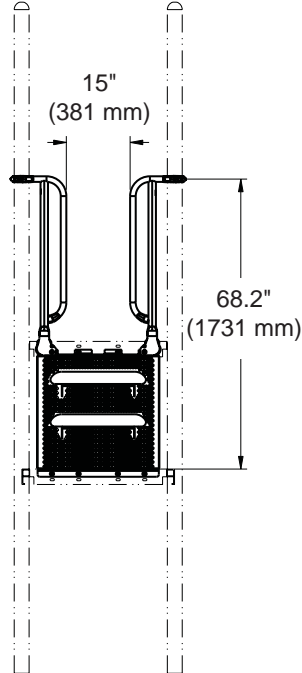


Top View

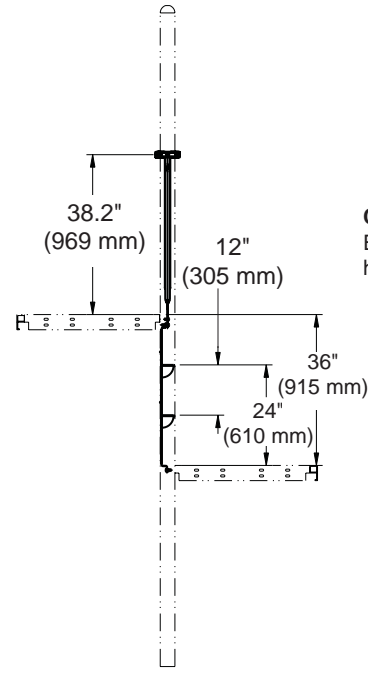


Critical Fall Height
EN: 20" (508 mm) + the height of the lower deck

Elevation View
30 in. (762 mm) Climber

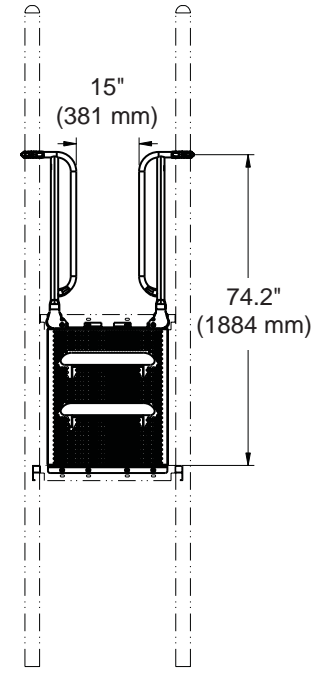


Top View



Critical Fall Height
EN: 24" (610 mm) + the height of the lower deck

Elevation View
36 in. (914 mm) Climber



INSTALLATION INSTRUCTIONS

INSTALLATION

✓Notes Before You Begin:

- Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.
- If during the installation process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the telephone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

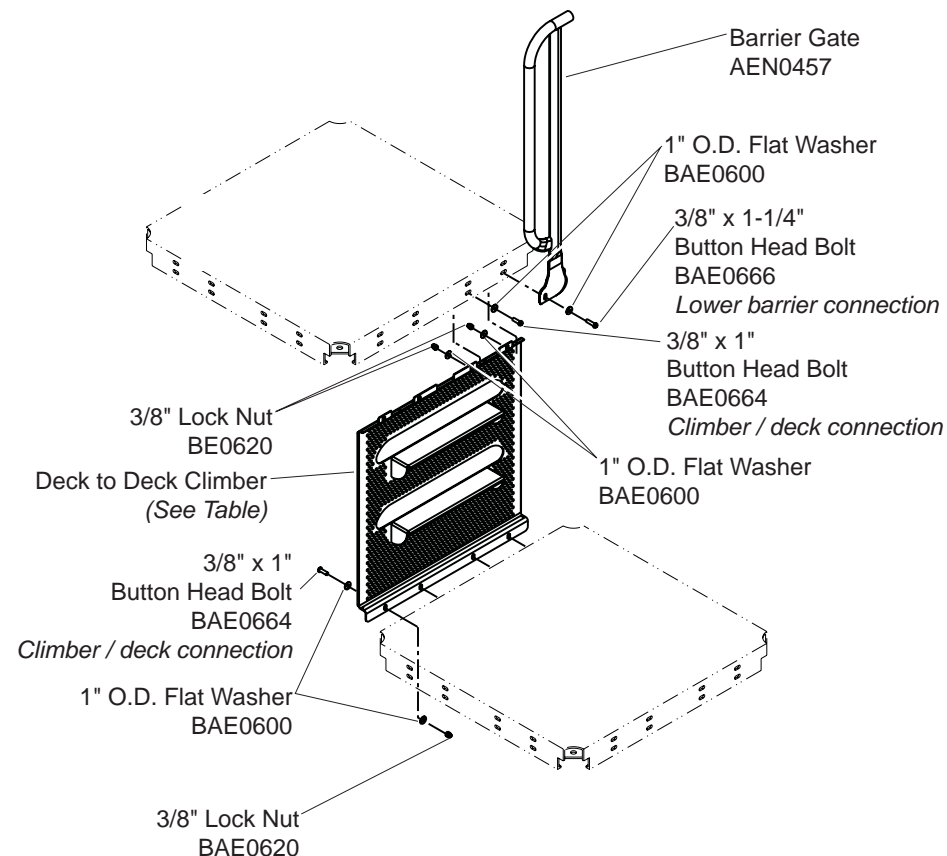
Step 3: Reference the master layout drawing for correct placement and height of your climber. The height of your climber may differ from the one shown in the details but the connections will remain the same.

Attach deck to deck climber to upper deck.

Step 4: Attach the deck to deck climber to upper deck. See **Detail A**. Select (1) one deck to deck climber, (2) two 3/8" x 1" button head bolts, (2) two 3/8" lock nuts and (4) four 1" O.D. flat washers. Only the *top center* tabs of the climber panel will be attached at this time. The top center tabs of the climber panel must be positioned *behind* the upper deck. Insert each bolt through a flat washer, a *bottom* hole in the upper deck, a center tab, another flat washer, and secure with a 3/8" lock nut.

Attach deck to deck climber to lower deck.

Step 5: Attach deck to deck climber to lower deck. See **Detail A**. Select (4) four of the following: 3/8" x 1" button head bolts, 3/8" lock nuts and (8) eight 1" O.D. flat washers. Align the holes in the climber tabs with the *upper* holes in the lower deck. Insert each bolt through a flat washer, the climber, an *upper* hole in the deck, another flat washer, and secure with a lock nut.



Climber Height	18 in. (457 mm)	24 in. (610 mm)	30 in. (762 mm)	36 in. (914 mm)
Part No.	ACL0016	ACL0017	ACL0018	ACL0019

Detail A

(Lower deck hole connection for barrier gate)

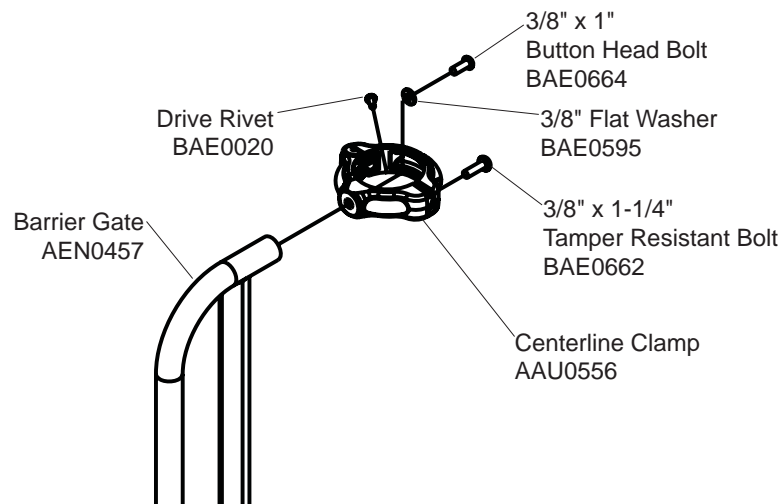
INSTALLATION INSTRUCTIONS

Attach the clamps to barrier gates.

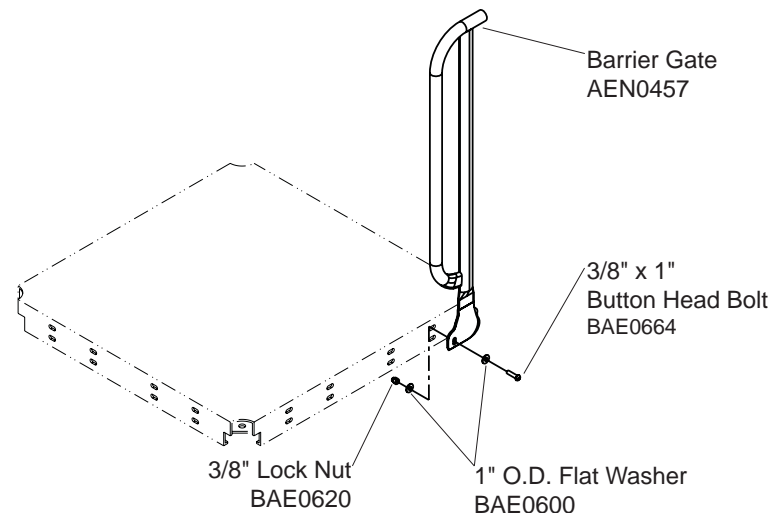
Step 6: Attach the clamps to the barrier gates. See **Detail B**. Select (2) two of the following: barrier gates, centerline clamps, 3/8" x 1" button head bolts and 3/8" flat washers. Position threaded portion of gate against the neck of the clamp. Insert each bolt through a flat washer, the clamp, and into the barrier. Fully tighten the connections.

Attach centerline clamp to support post.

Step 7: Attach clamps to support posts. See **Detail B**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Close each clamp around a support post. Apply a drop of loctite to the bolt threads and insert a bolt into each clamp. Leave connections loose. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.



Detail B



Detail C

(Upper deck hole connection for barrier gate)

Attach barrier gate to deck.

To avoid a conflict with an adjacent component clamp, the climber barrier gate may be adjusted up or down by selecting the upper or lower holes of the adjoining deck.

Step 8: Attach barrier gate to deck. See **Details A** and **C**. Choose the appropriate instructions for your deck attachment condition.

Note: Both gates should be mounted at the same height.

Barrier gate attachment to lower deck holes:

See **Detail A**. Select (2) two of the following: 3/8" x 1-1/4" button head bolts, 3/8" lock nuts and (4) four 1" O.D. flat washers. Insert each bolt through a flat washer, the gate tab, a lower hole in the deck, the top tab of climber panel, another flat washer, and secure with a lock nut.

Barrier gate attachment to upper deck holes:

See **Detail C**. Select (2) two of the following: 3/8" x 1" button head bolts, 3/8" lock nuts and (4) four 1" O.D. flat washers. Insert each bolt through a flat washer, the barrier gate tab, an upper hole of the deck, another flat washer, and secure with a lock nut.

Note: Attach the remaining tabs of the climber panel to the lower holes of the upper deck at this time. Follow the procedure as noted in **Step 3** for the center hole connections.

INSTALLATION INSTRUCTIONS

Final Details.

__**Step 9:** Plumb and level entire component. Fully tighten **all** fasteners according to tightening torque specifications. See **page 1** of these instructions.

__**Step 10:** Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

INSTALLATION INSTRUCTIONS

BILL OF MATERIAL

CH - 18" (457 mm) DECK TO DECK CLIMBER (ZZCH6180)

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
ACL0016	CLIMBER - 28-1/2" x 17-7/8"	1
AEN0457	BARRIER - 42.07" x 7.75" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2

CH - 30" (762 mm) DECK TO DECK CLIMBER (ZZCH6200)

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
ACL0018	CLIMBER - 28-1/2" x 29-7/8"	1
AEN0457	BARRIER - 42.07" x 7.75" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2

CH - 24" (610 mm) DECK TO DECK CLIMBER (ZZCH6190)

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
ACL0017	CLIMBER - 28-1/2" x 23-7/8"	1
AEN0457	BARRIER - 42.07" x 7.75" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2

CH - 36" (914 mm) DECK TO DECK CLIMBER (ZZCH6210)

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
ACL0019	CLIMBER - 28-1/2" x 35-7/8"	1
AEN0457	BARRIER - 42.07" x 7.75" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2



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Assembly View (representative model)

Installation Instructions

Challengers®

Models CH8256, CH8257 and CH8258




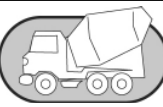
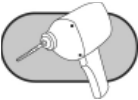


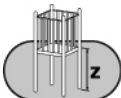
PlayWood Climber

48 in. (1219 mm), 60 in. (1524 mm),
and 72 in. (1829 mm) Decks

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Concrete Required: 0.06 cubic yard (0,04 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

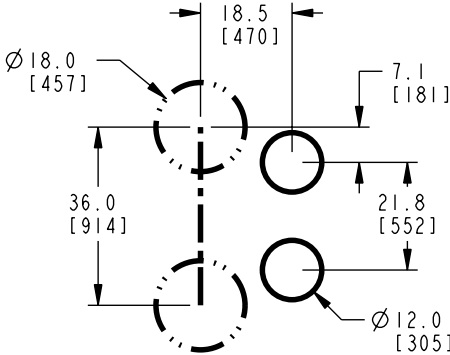
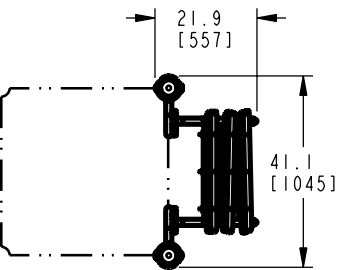
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

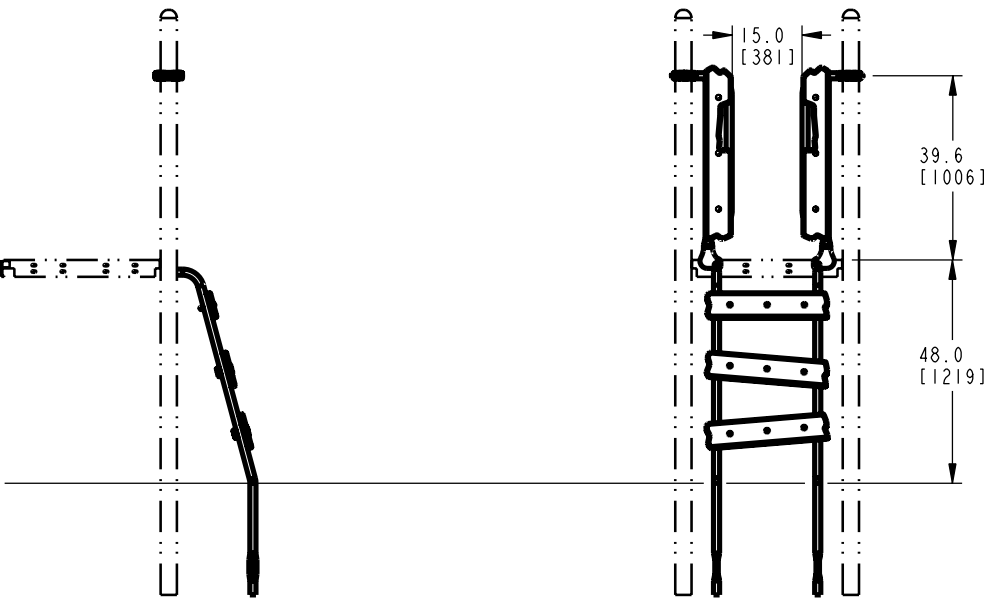
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

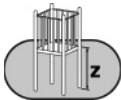
Top View



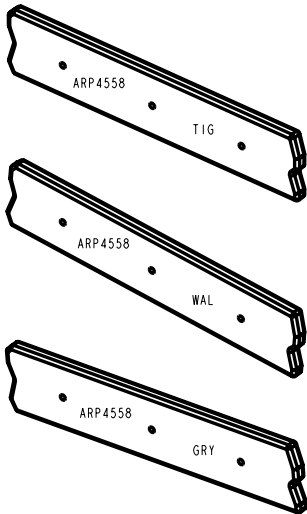
Footings Diagram



Elevation Views
CH8256



48" (1219 mm)



PART NUMBER	COLOR	QTY
ARP4558	TIGERWOOD	1
ARP4558	WALNUT	1
ARP4558	GREY	1

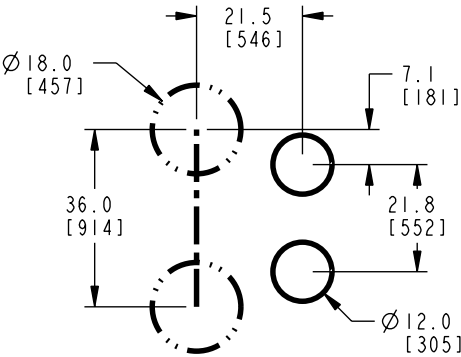
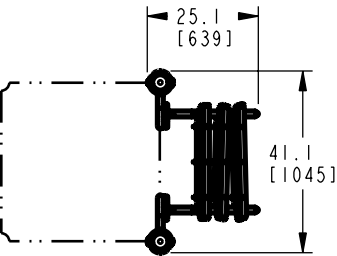
Plank Placement Detail
CH8256 - Climber



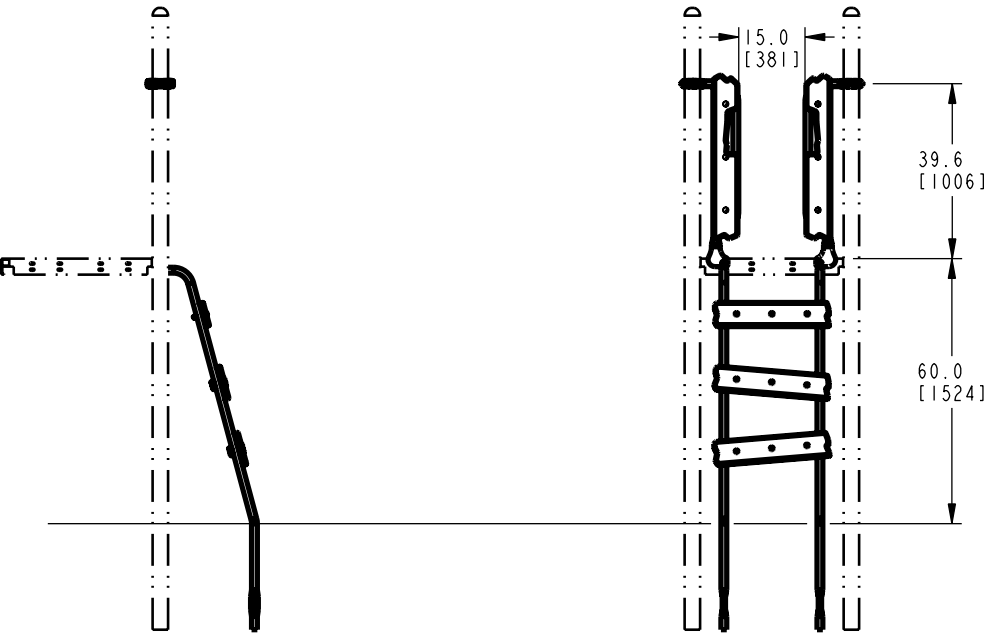
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

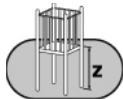
Top View



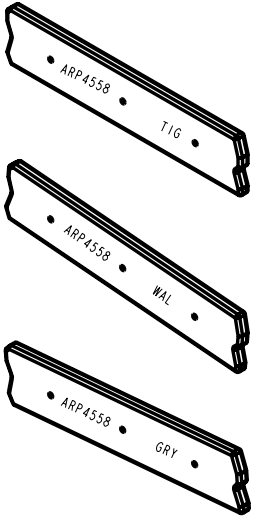
Footings Diagram



Elevation Views
CH8257



60" (1524 mm)

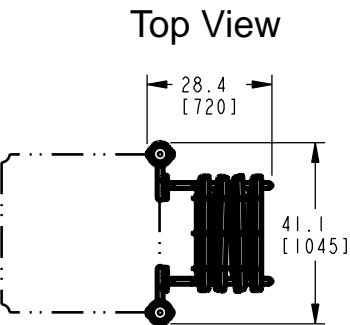


PART NUMBER	COLOR	QTY
ARP4558	TIGERWOOD	1
ARP4558	WALNUT	1
ARP4558	GREY	1

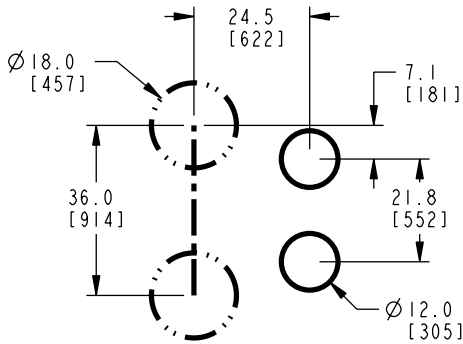
Plank Placement Detail
CH8257 - Climber



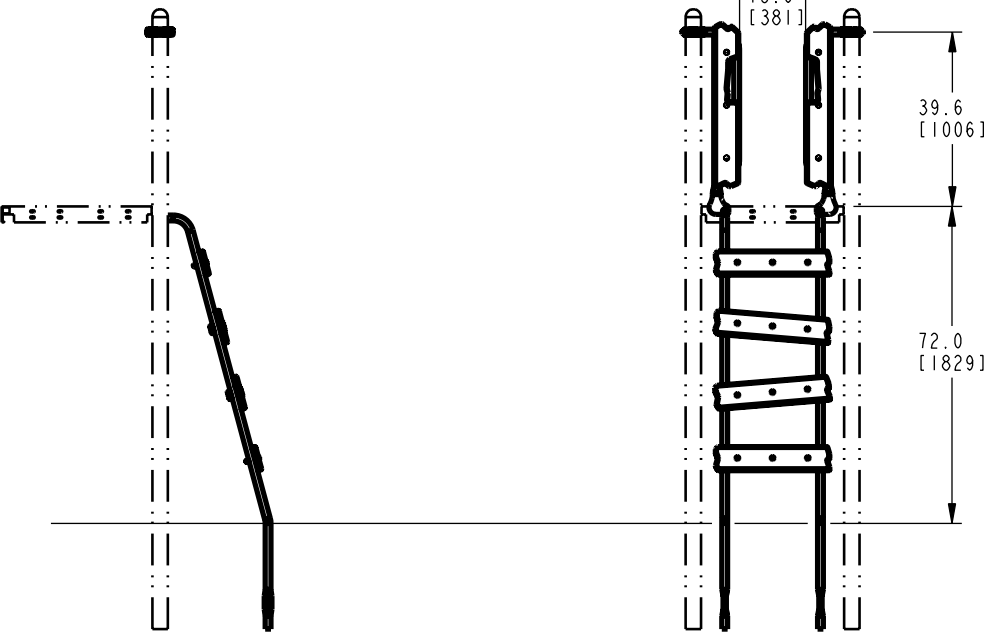
Installation Instructions



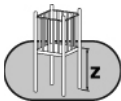
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



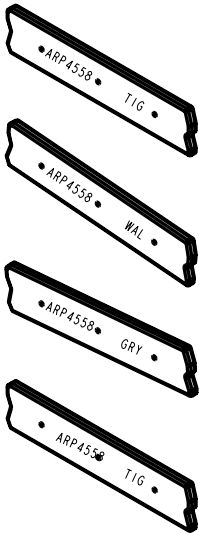
Footings Diagram



Elevation Views
CH8258



72" (1829 mm)



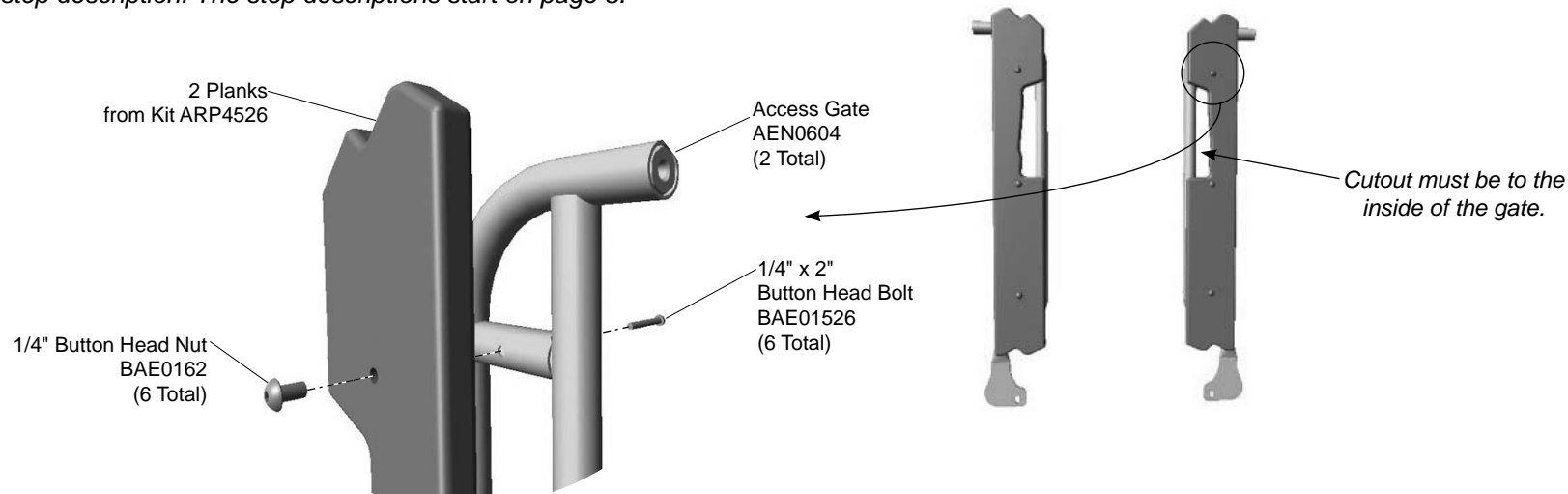
PART NUMBER	COLOR	QTY
ARP4558	TIGERWOOD	2
ARP4558	WALNUT	1
ARP4558	GREY	1

Plank Placement Detail
CH8258 - Climber



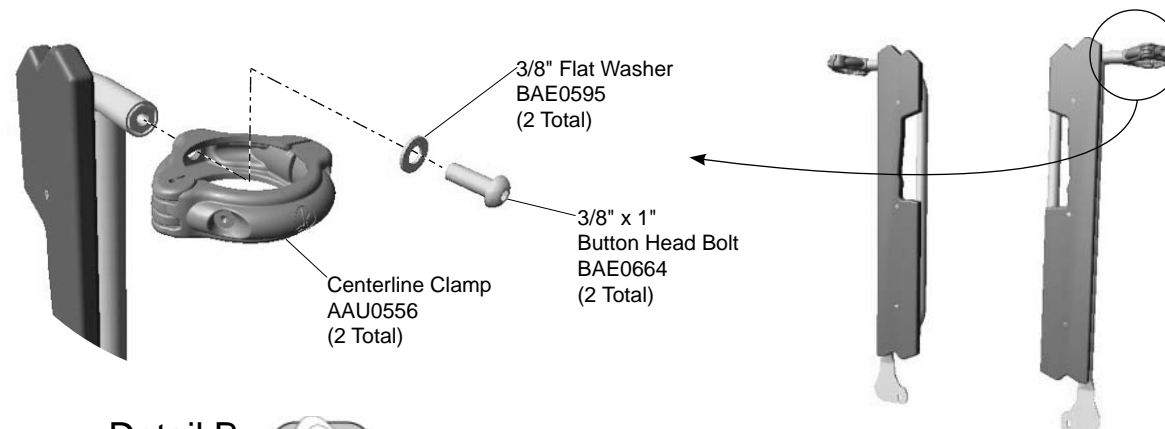
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



Detail A
Step 4

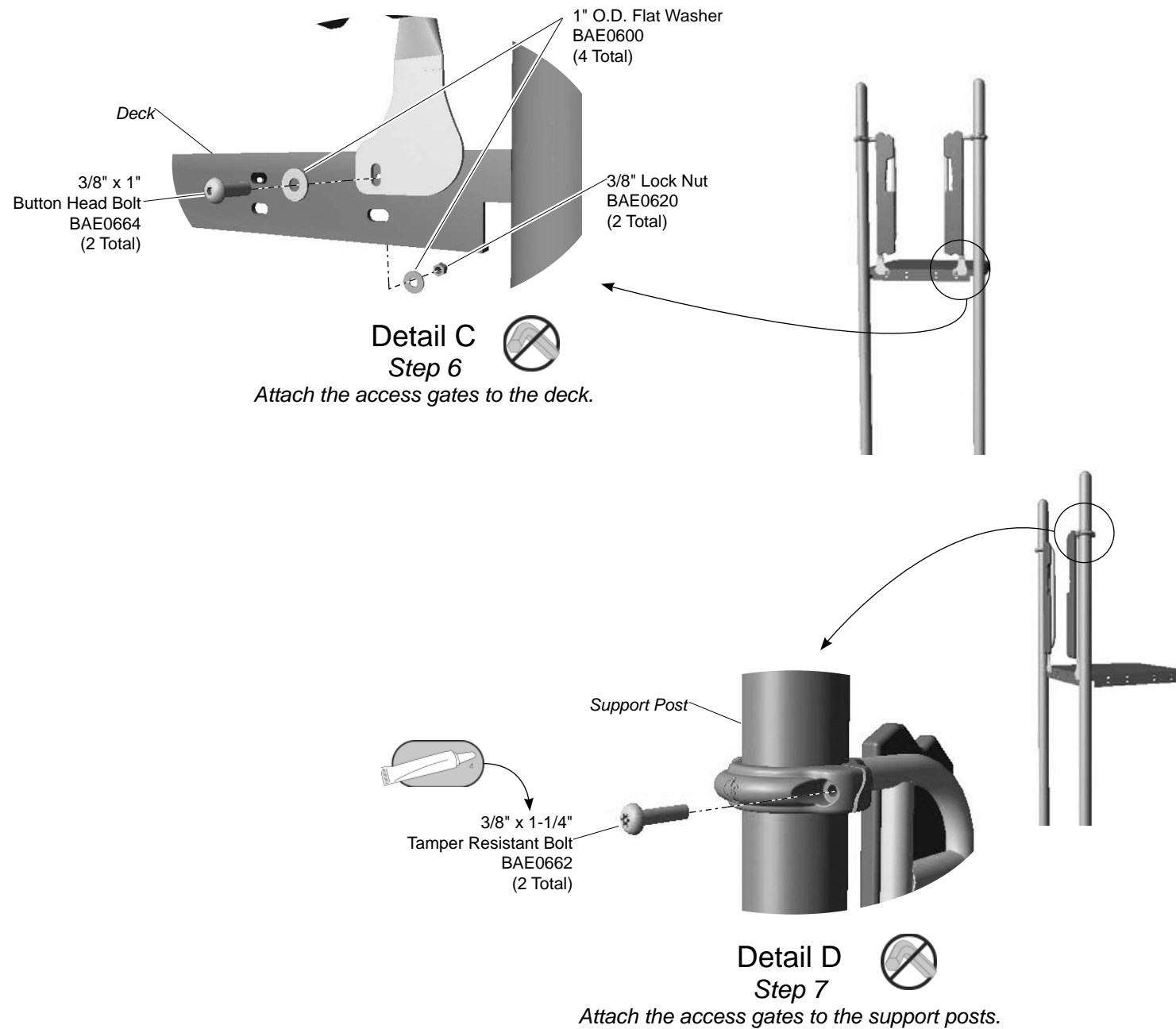
Attach the planks to the access gates.



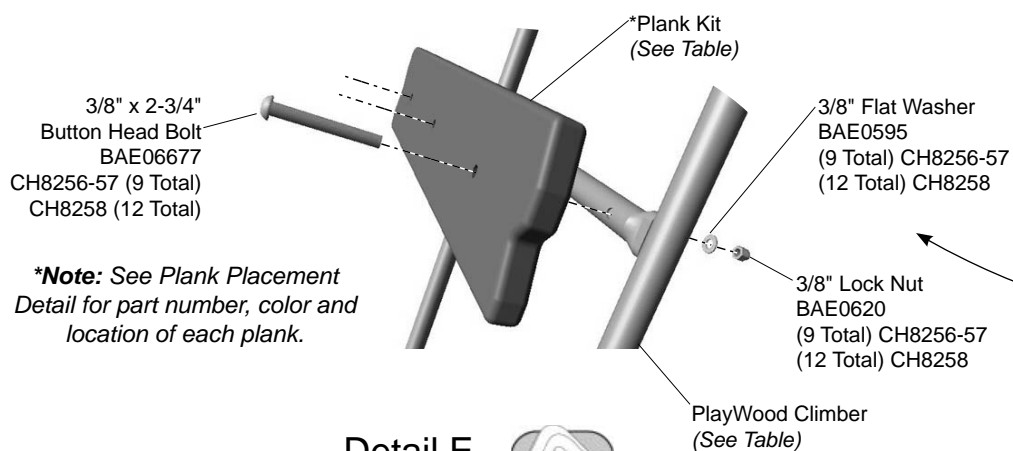
Detail B
Step 5

Attach the clamps to the access gates.

Installation Instructions

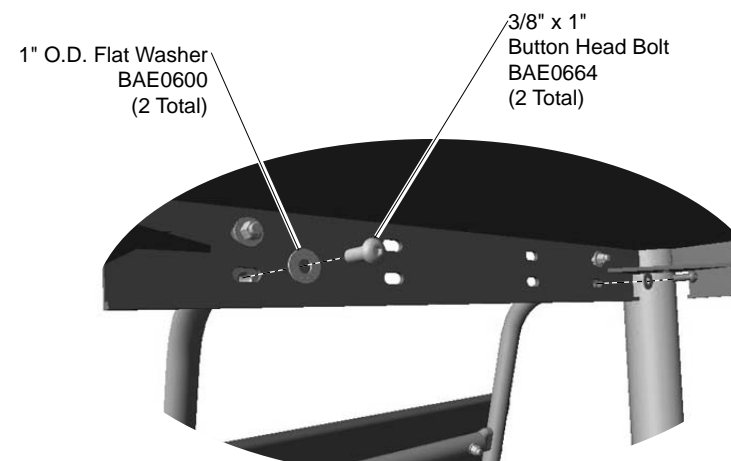


Installation Instructions

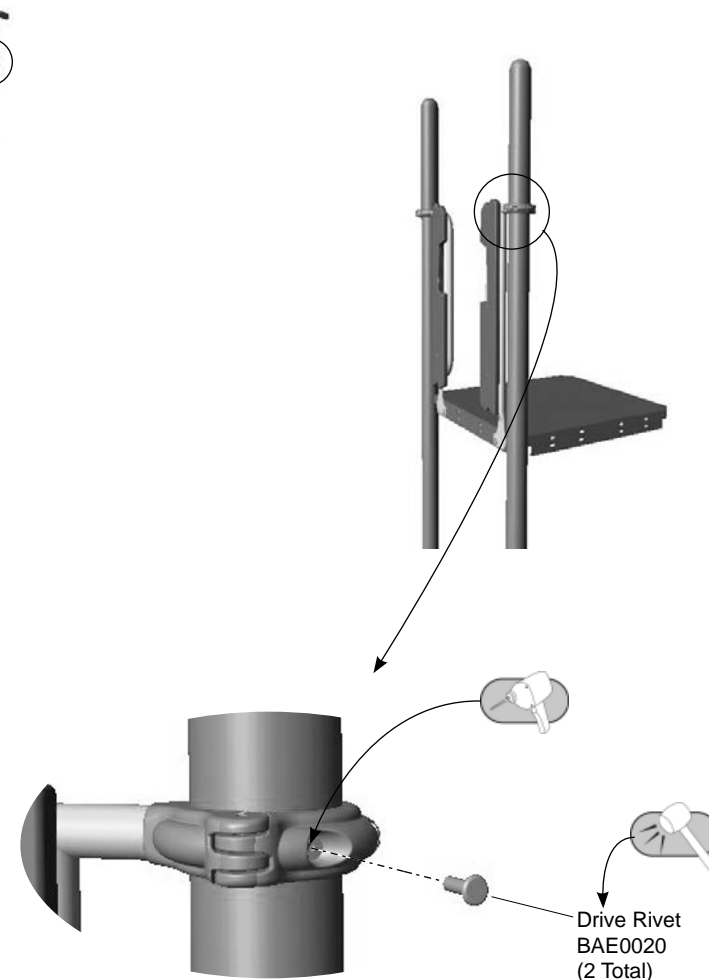


Model	Climber Part Number	Plank Kit Number	Number of Planks
CH8256	ACL0348	*ARP4532	3
CH8257	ACL0349	*ARP4533	3
CH8258	ACL0350	*ARP4534	4

Detail E
Step 8
Attach the planks to the climber.



Detail F
Step 9
Attach the climber to the deck.



Detail G
Step 11
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Detail** in the *Guidelines* as the beginning of this instruction booklet.

Step 4: Attach the planks to the access gates. See **Detail A**. Position each plank against an access gate and attach as shown. Fully tighten the fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the clamps to the access gates. See **Detail B**. Position a clamp against the top rail on each access gate and attach as shown. Make sure the clamps are turned in the same direction. Fully tighten the fasteners according to tightening torque specifications.

Step 6: Attach the access gates to the deck. See **Detail C**. Position the gates against the deck and close the clamps around the support posts and attach as shown.

Note: Gates may be attached to the upper or the lower holes in the deck. If attaching to the lower holes, leave the hole in the gate mounting bracket open for connection of the climber.

Step 7: Attach the access gates to the support posts. See **Detail D**. Apply a drop of thread locking adhesive to the bolts threads and attach the clamps to the support posts as shown.

Step 8: Attach the planks to the climber. See **Detail E and Plank Placement Detail** for the appropriate model. Place the planks against the climber and attach as shown. Fully tighten the fasteners according to tightening torque specifications.

Step 9: Attach the climber to the deck. See **Detail F**. Position the climber in it's footing with the top of the climber against the deck and attach as shown.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 11: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

CH8256 - PLAYWOOD CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
ACL0348	CLIMBER - 23.07" x 70.04" PLAYWOOD (48" DECK)	1
AEN0604	BARRIER - 7.75" x 42.07" PLAYWOOD GATE	2
ARP4526	PLAYWOOD KIT - CH ACCESS GATE	1
ARP4532	PLAYWOOD KIT - 48" CLIMBER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE01526	BOLT - 1/4"-20 x 2" BUTTON HEAD - SS	6
BAE0162	NUT - 1/4"-20 x 9/16" BUTTON HEAD	6
BAE0595	WASHER - 3/8" SAE FLAT	11
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	11
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	9

CH8258 - PLAYWOOD CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
ACL0350	CLIMBER - 23.07" x 94.04" PLAYWOOD (72" DECK)	1
AEN0604	BARRIER - 7.75" x 42.07" PLAYWOOD GATE	2
ARP4526	PLAYWOOD KIT - CH ACCESS GATE	1
ARP4534	PLAYWOOD KIT - 72" CLIMBER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE01526	BOLT - 1/4"-20 x 2" BUTTON HEAD - SS	6
BAE0162	NUT - 1/4"-20 x 9/16" BUTTON HEAD	6
BAE0595	WASHER - 3/8" SAE FLAT	14
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	12

CH8257 - PLAYWOOD CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0556	CLAMP - 3-1/2" CENTERLINE DIE CAST	2
ACL0349	CLIMBER - 23.07" x 82.04" PLAYWOOD (60" DECK)	1
AEN0604	BARRIER - 7.75" x 42.07" PLAYWOOD GATE	2
ARP4526	PLAYWOOD KIT - CH ACCESS GATE	1
ARP4533	PLAYWOOD KIT - 60" CLIMBER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE01526	BOLT - 1/4"-20 x 2" BUTTON HEAD - SS	6
BAE0162	NUT - 1/4"-20 x 9/16" BUTTON HEAD	6
BAE0595	WASHER - 3/8" SAE FLAT	11
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	11
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	9



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Assembly View (representative model)

Model	Deck Height	Weight
ZZCH8547	48" (1220 mm)	314.8 lbs. (143,1 kg)
ZZCH8547S	48" (1220 mm)	302.6 lbs. (137,5 kg)
ZZCH8548	36" (915 mm)	308.2 lbs. (140,1 kg)
ZZCH8548S	36" (915 mm)	296 lbs. (134,5 kg)

Installation Instructions

Challengers® Models CH8547, CH8547S,
CH8548, and CH8547S

Nautical Bow (In-Ground and Surface Mount)
48 in. (1219 mm) and 36 in. (914 mm) Decks

Installation Preparation

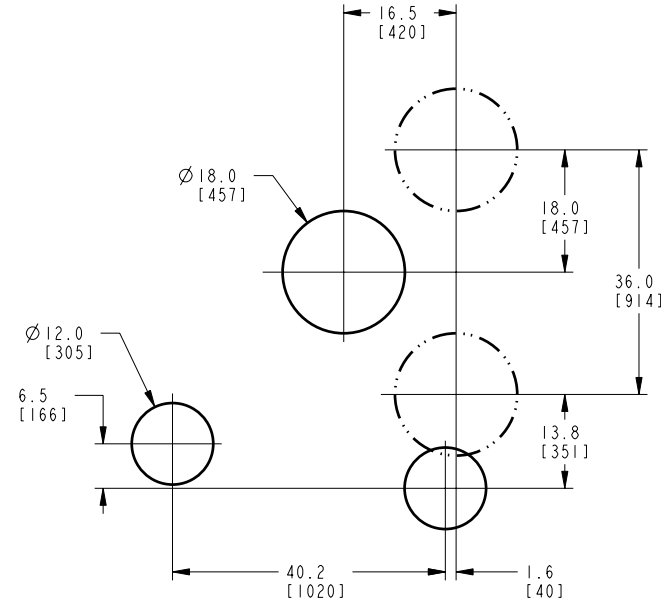
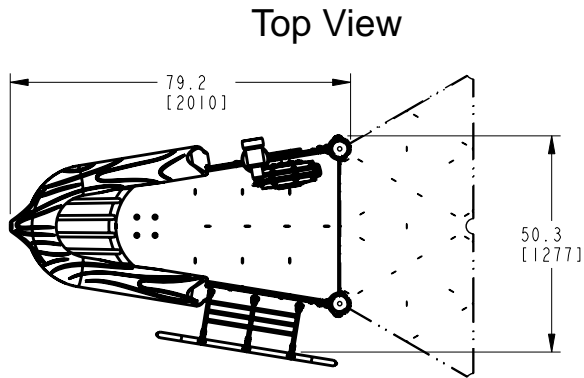
Recommended Crew: Four (4) adults
 Installation Time (in-ground):..... 10 man-hours
 Installation Time (surface mount): 8.5 man-hours
 Weight: (refer to table)
 Concrete Required:(in-ground model) 0.19 cubic yard (0,14 cubic meters)
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

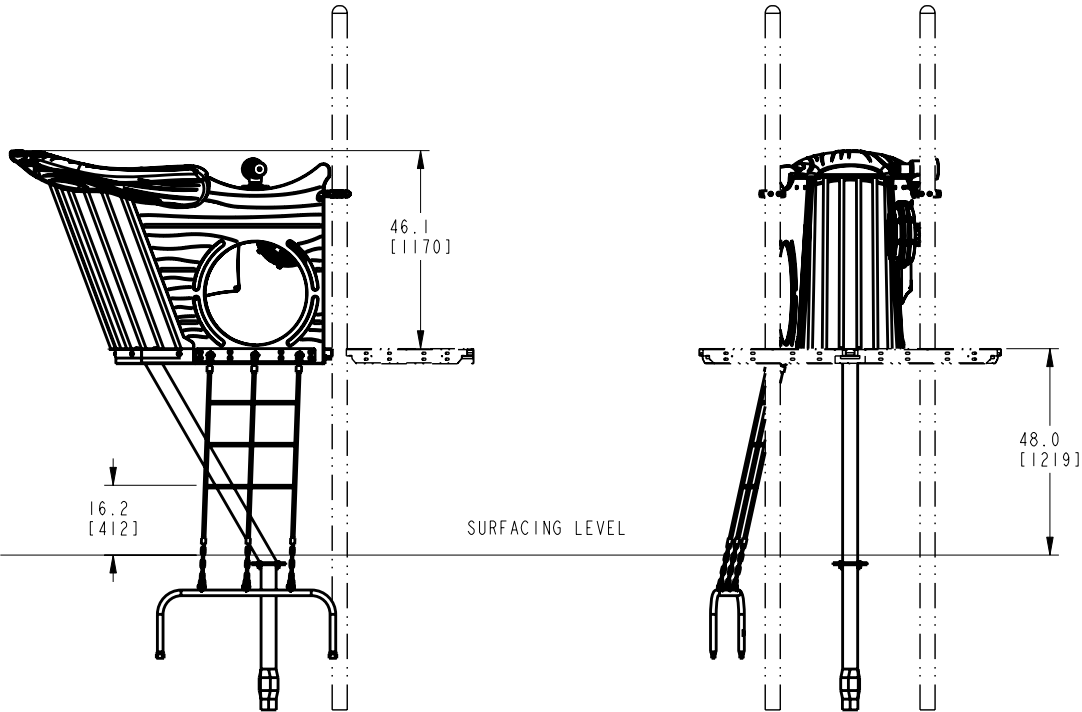
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

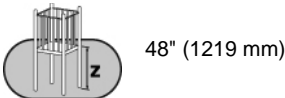
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



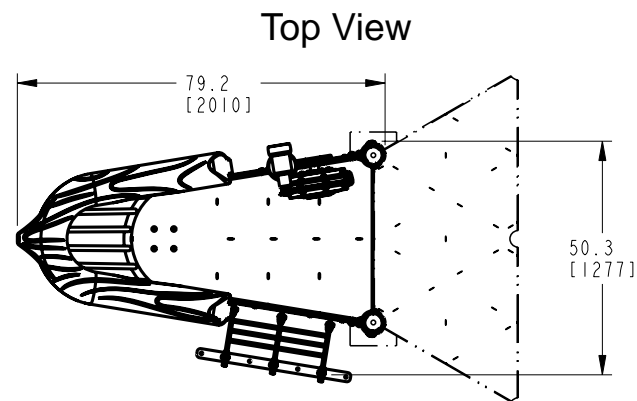
Footing Diagram



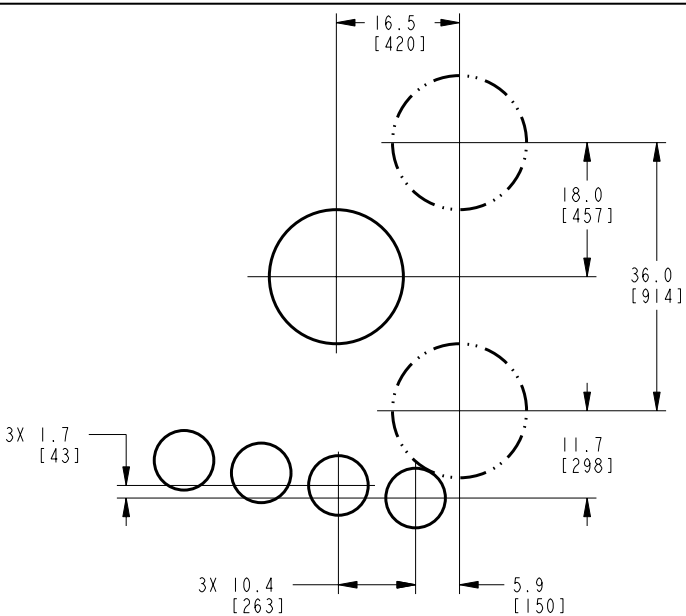
Elevation Views
CH8547



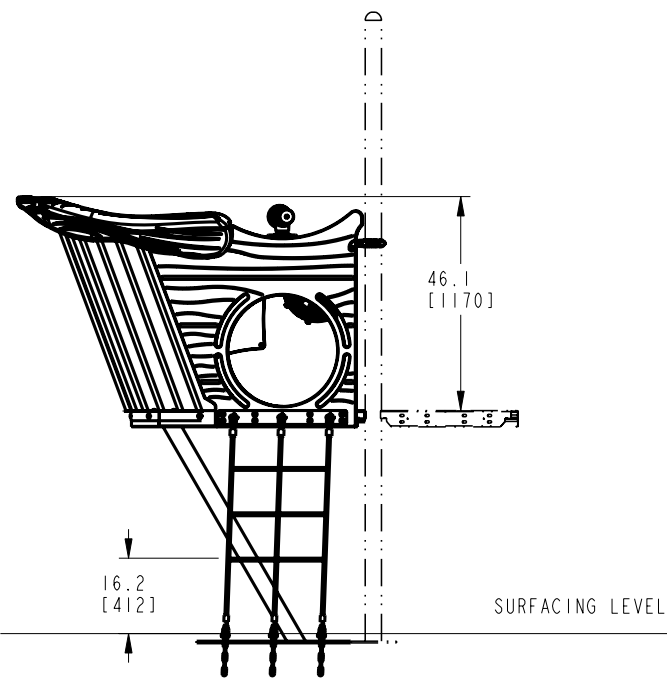
Installation Instructions



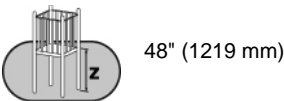
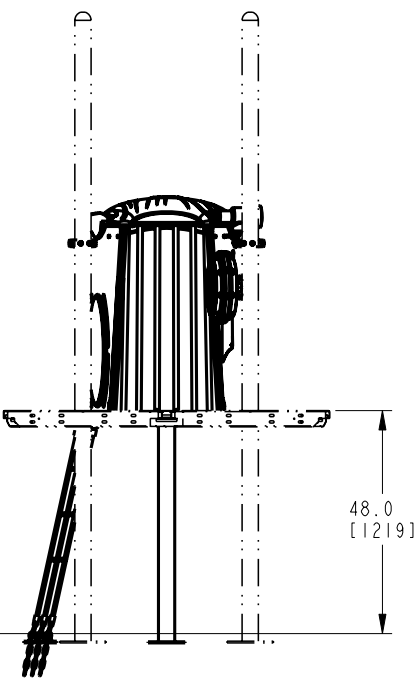
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



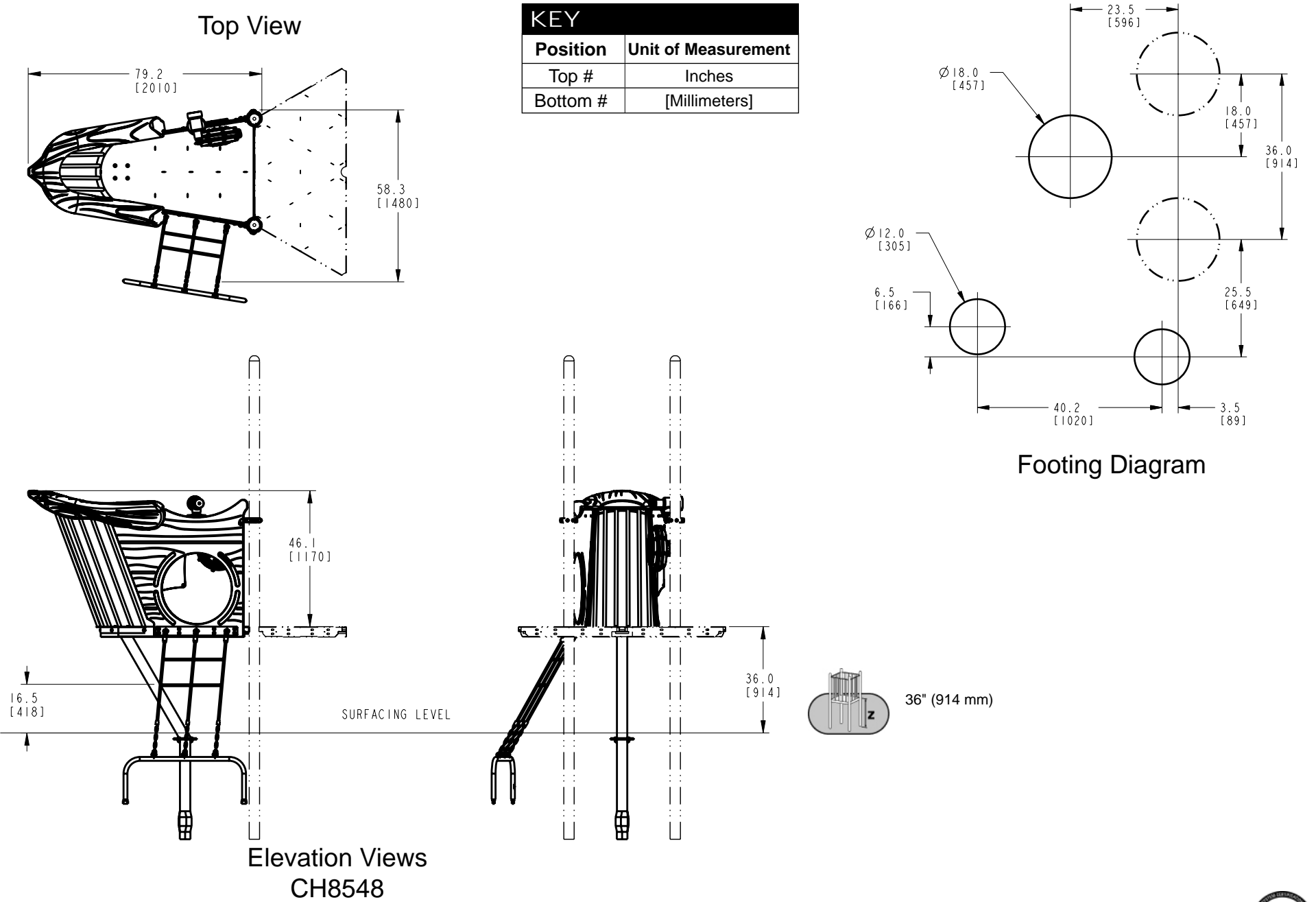
Footing Diagram



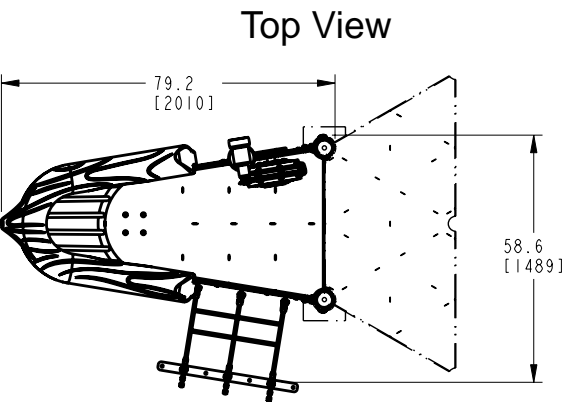
Elevation Views
CH8547S



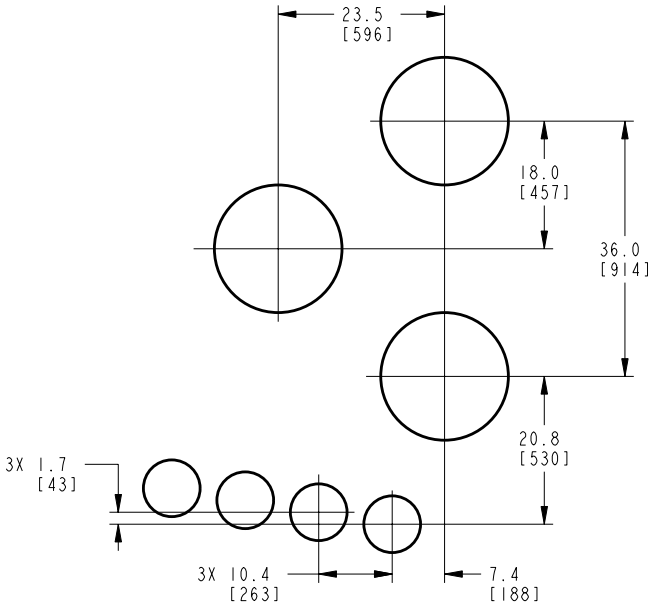
Installation Instructions



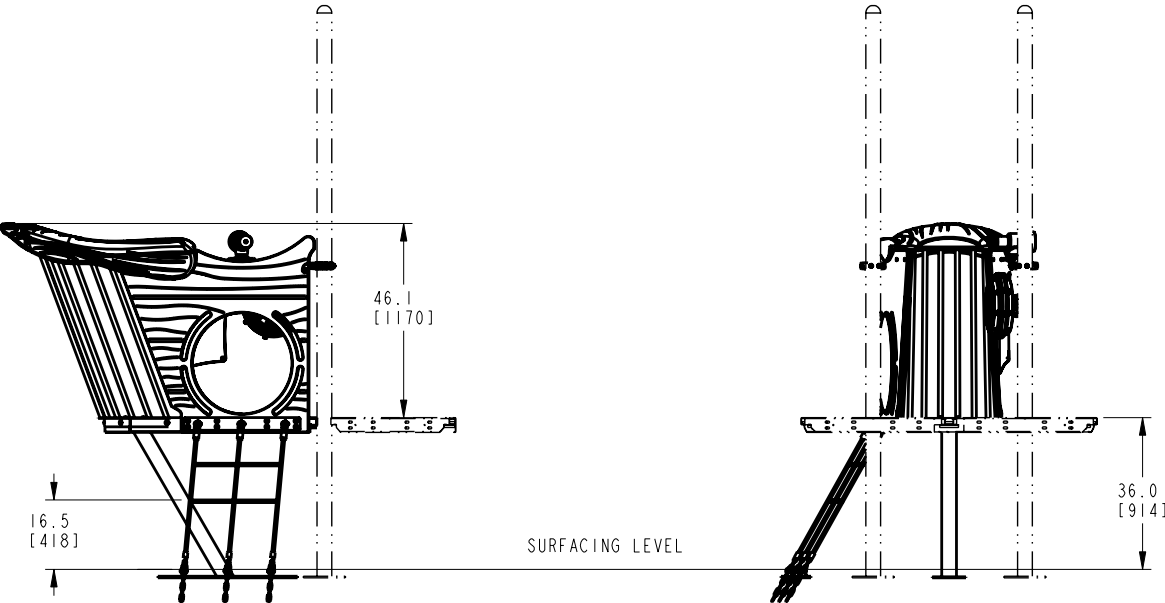
Installation Instructions



KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

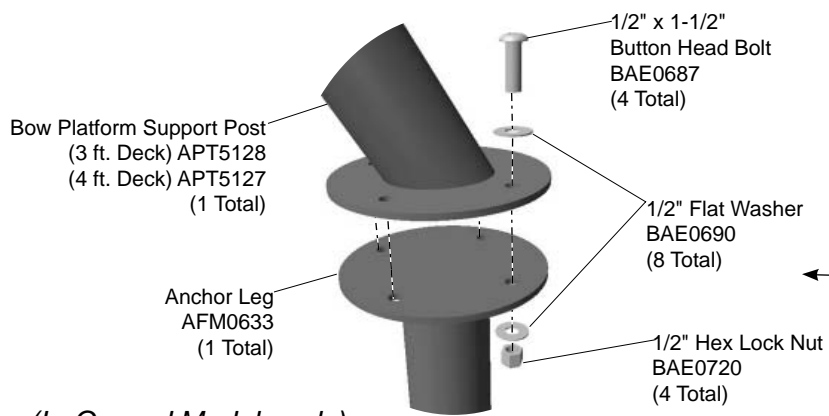


Elevation Views
CH8548S



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 16.

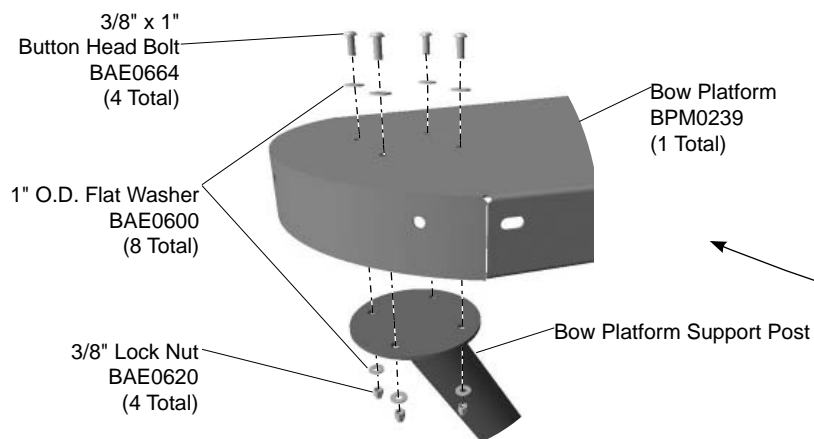


(In-Ground Models only)

Detail A

Step 4

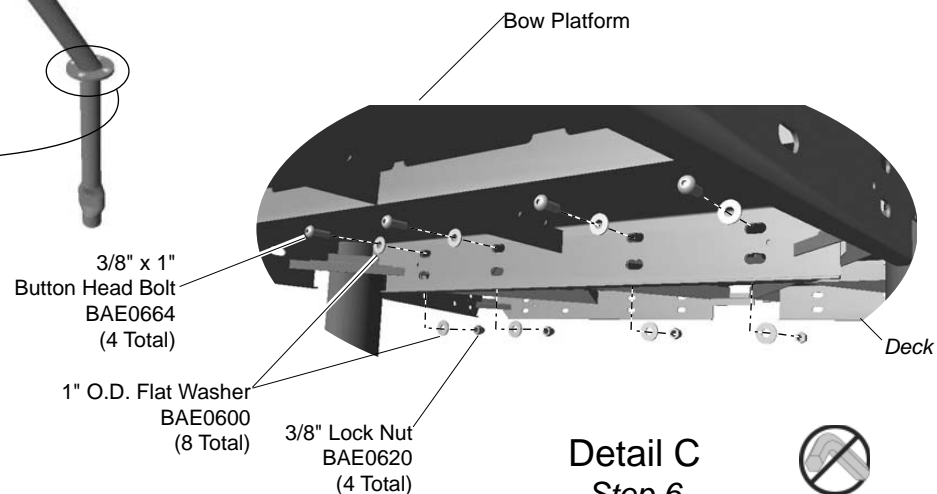
Attach the anchor leg to the platform support post.



Detail B

Step 5

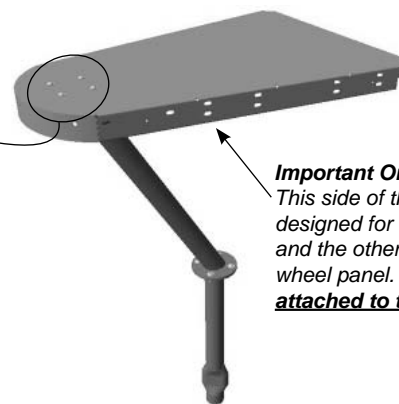
Attach the platform support post to the bow platform.



Detail C

Step 6

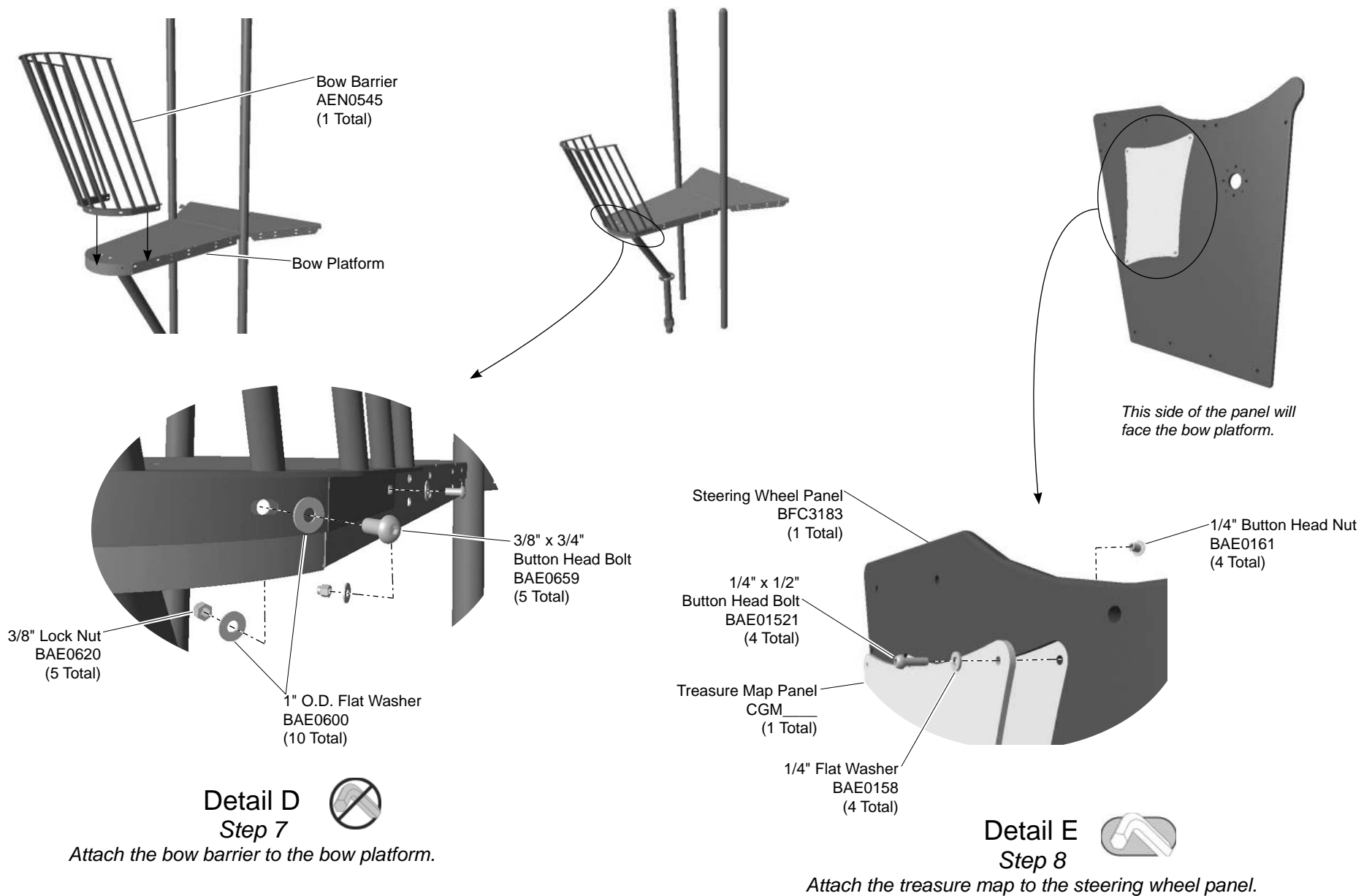
Attach the bow platform to the deck.



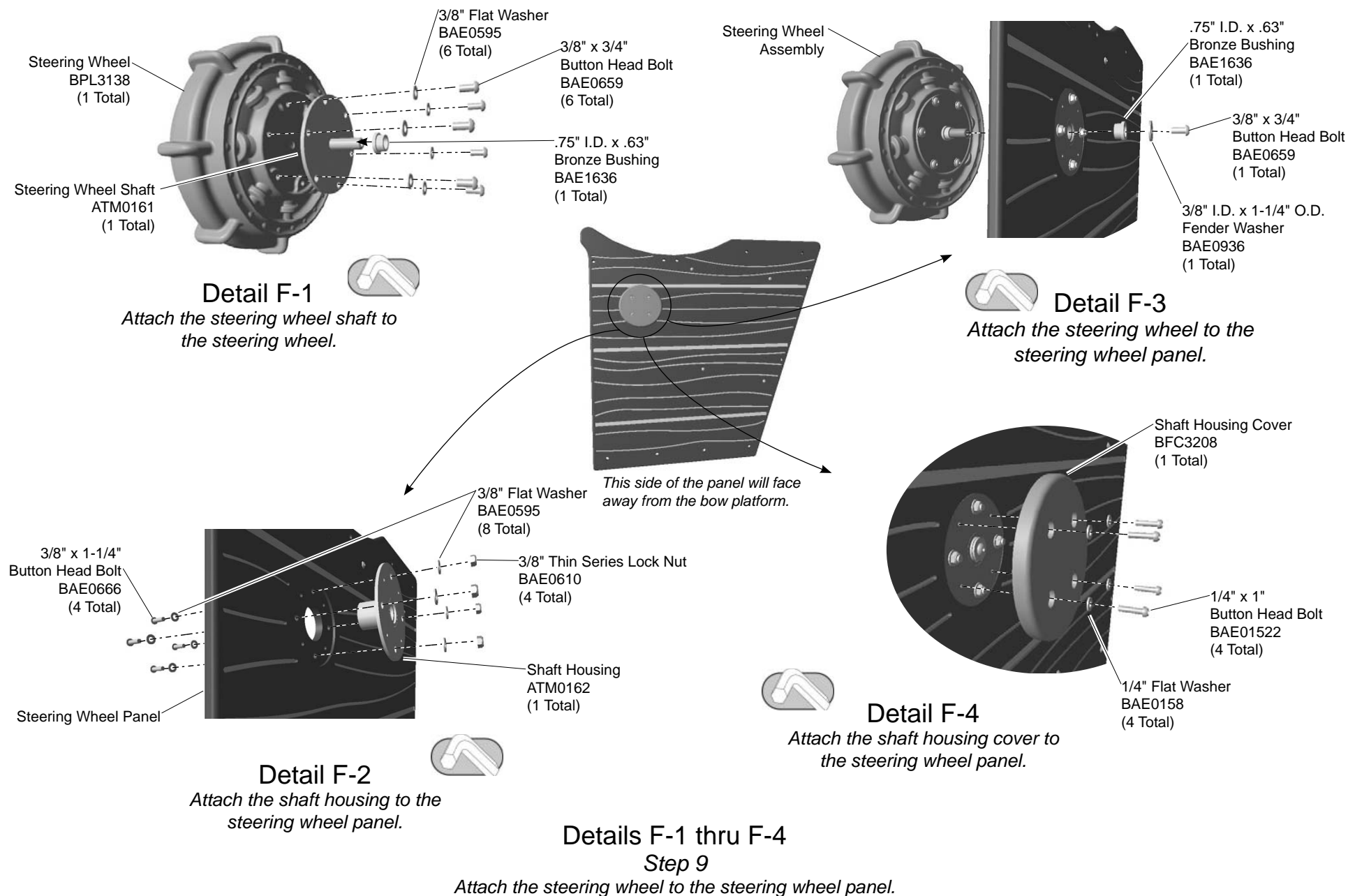
Important Orientation Note:
This side of the bow platform is designed for the porthole panel only and the other side for the steering wheel panel. **Panels must be attached to their appropriate side.**



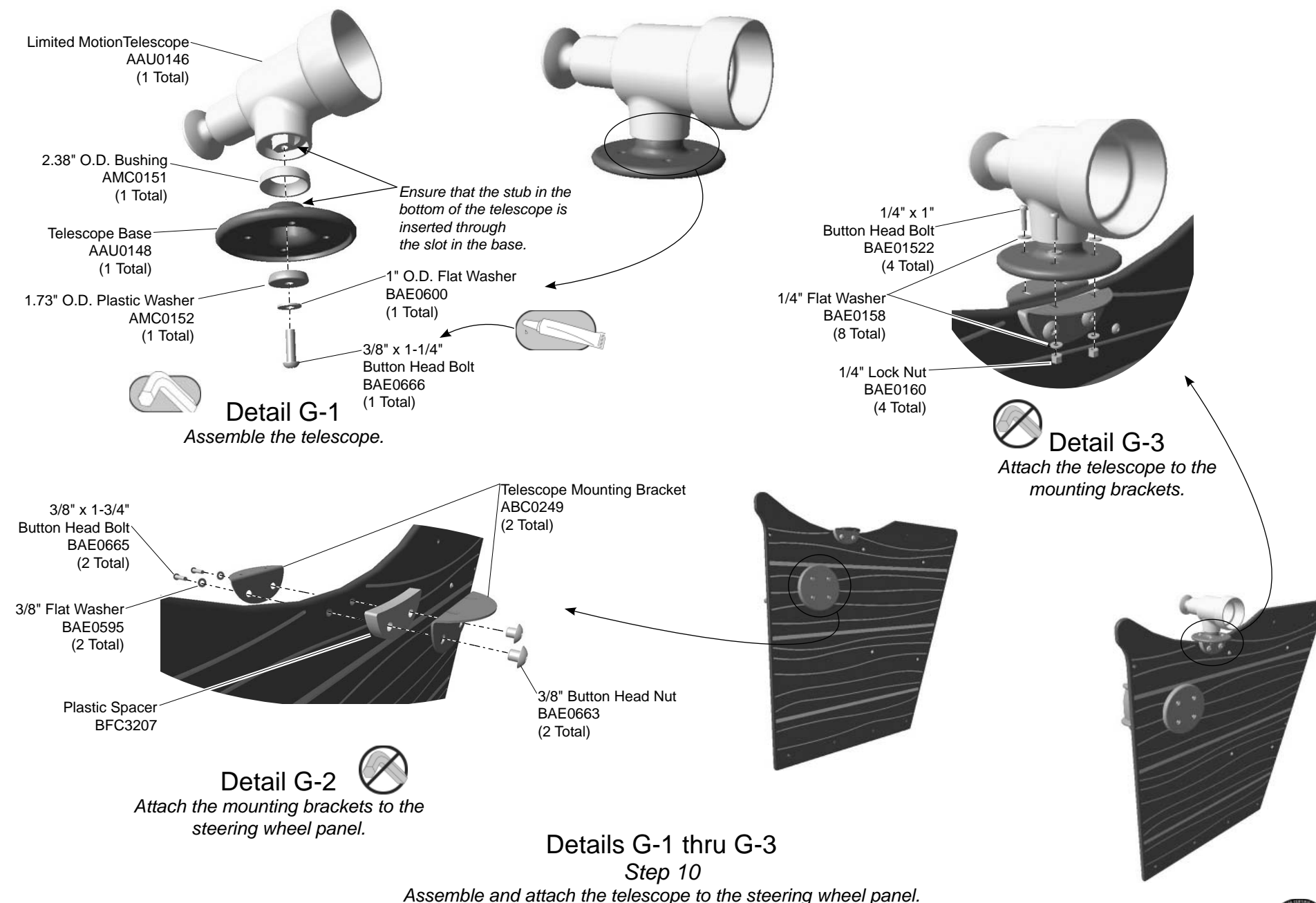
Installation Instructions



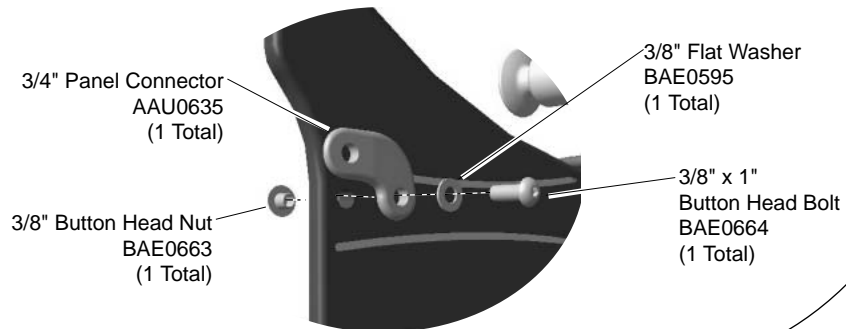
Installation Instructions



Installation Instructions



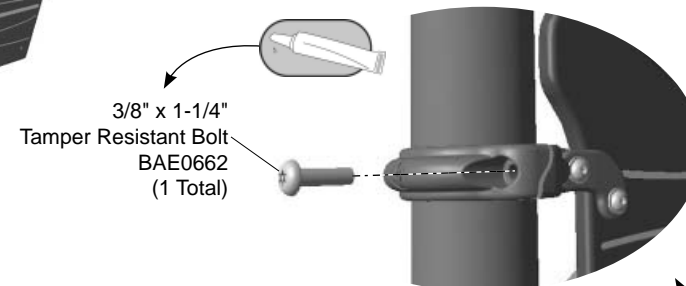
Installation Instructions



Detail H

Step 11

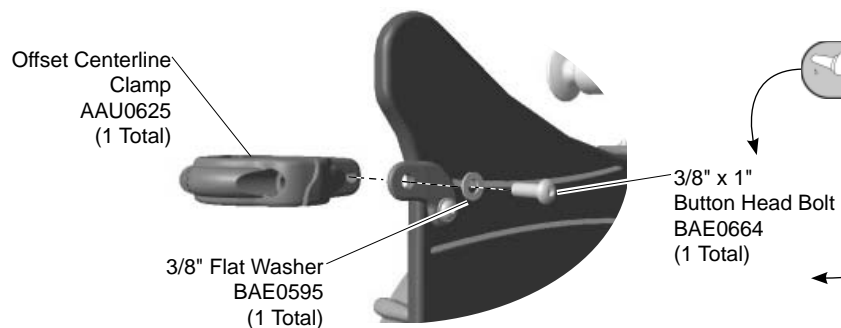
Attach the panel connector to the steering wheel panel.



Detail J

Step 13

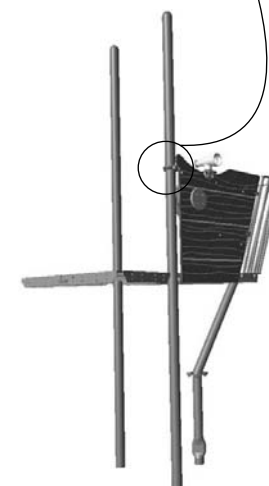
Attach the steering wheel panel to the support post.



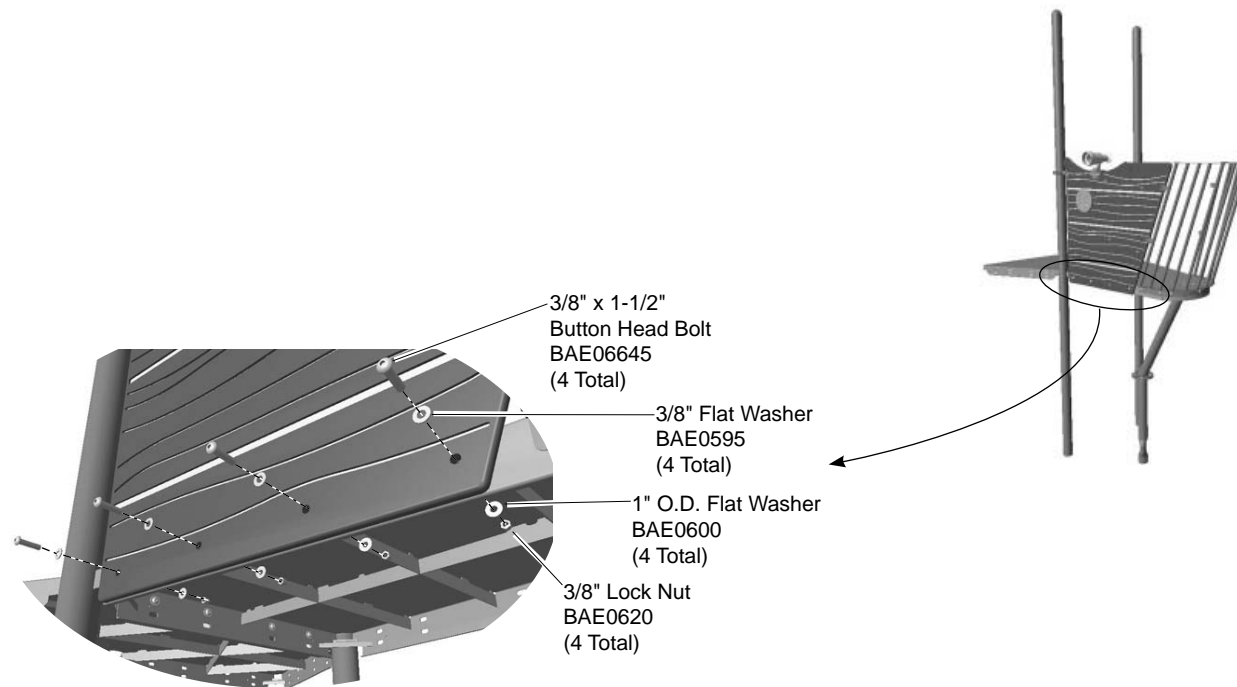
Detail I

Step 12

Attach the offset centerline clamp to the panel connector.



Installation Instructions

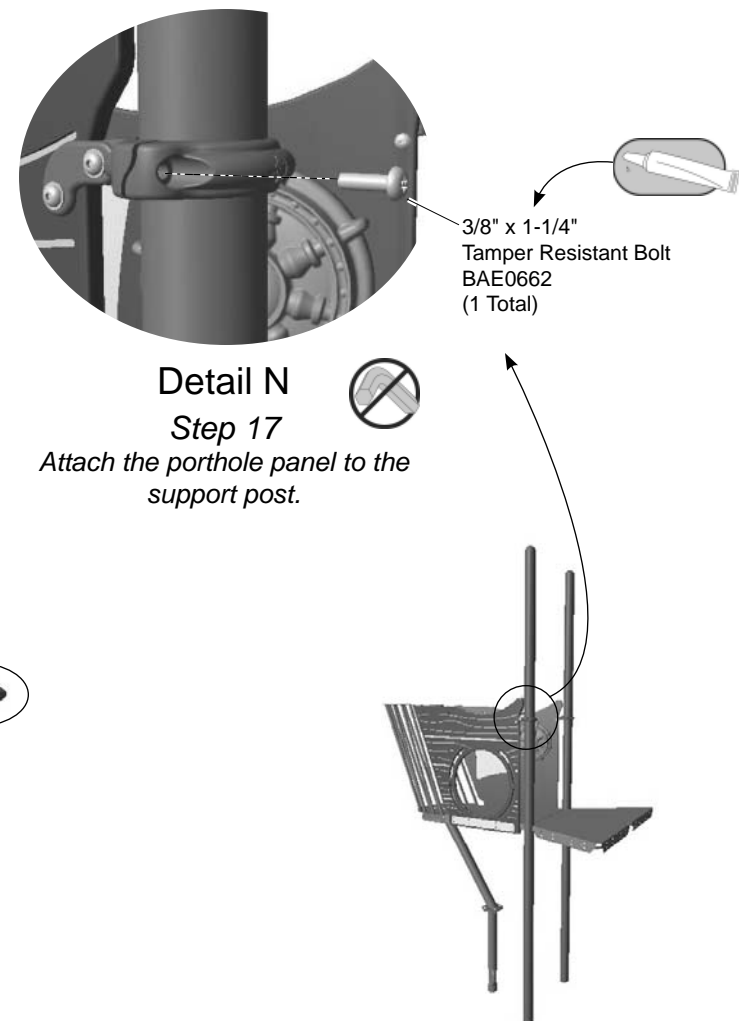
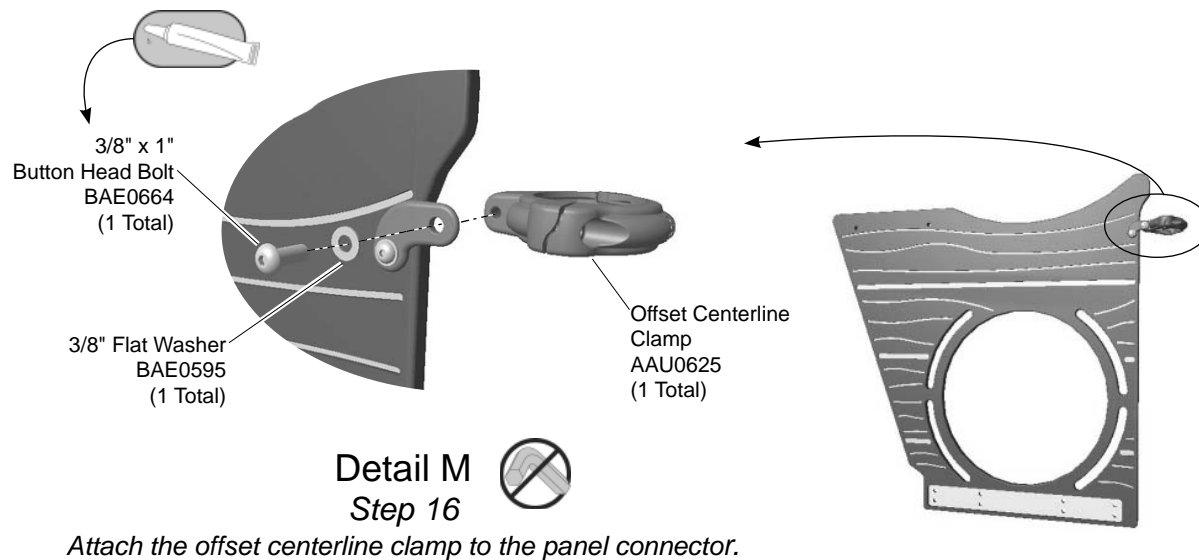
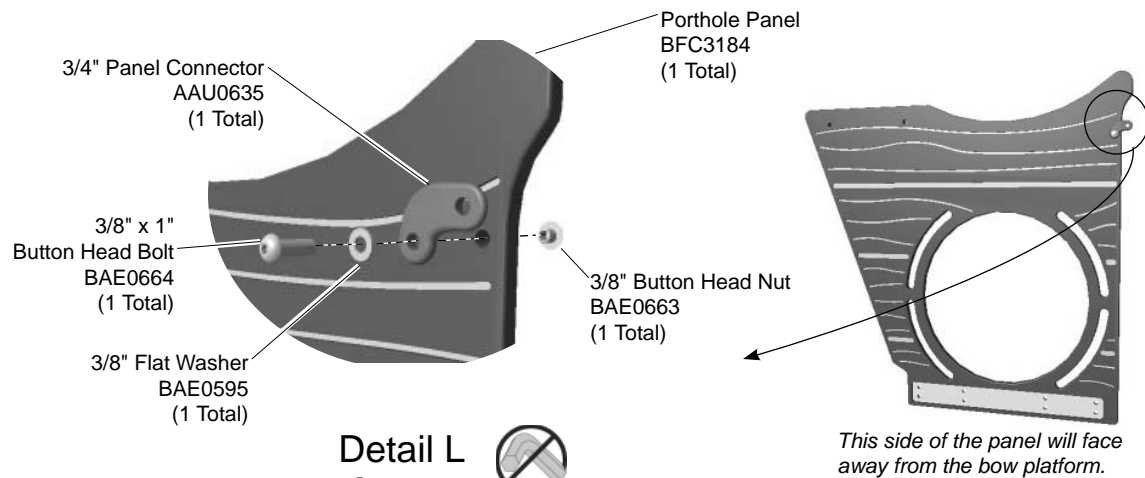


Detail K
Step 14

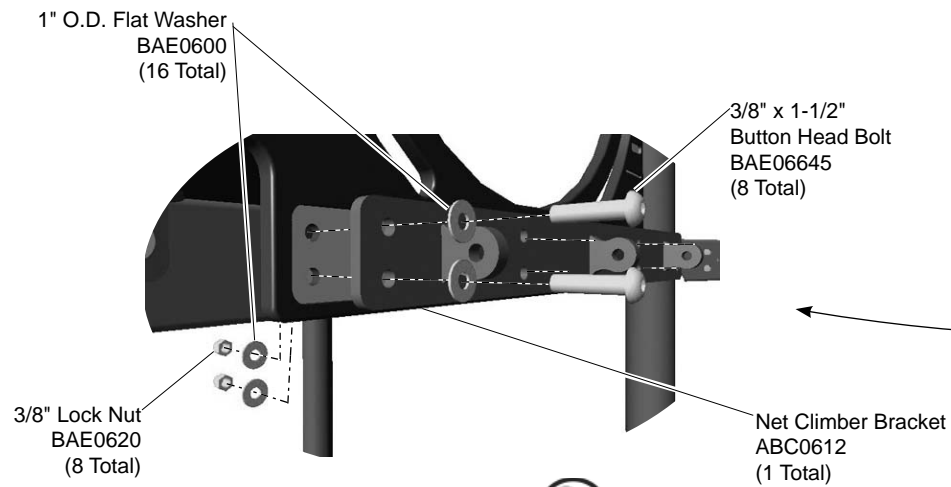


Attach the steering wheel panel to the deck.

Installation Instructions

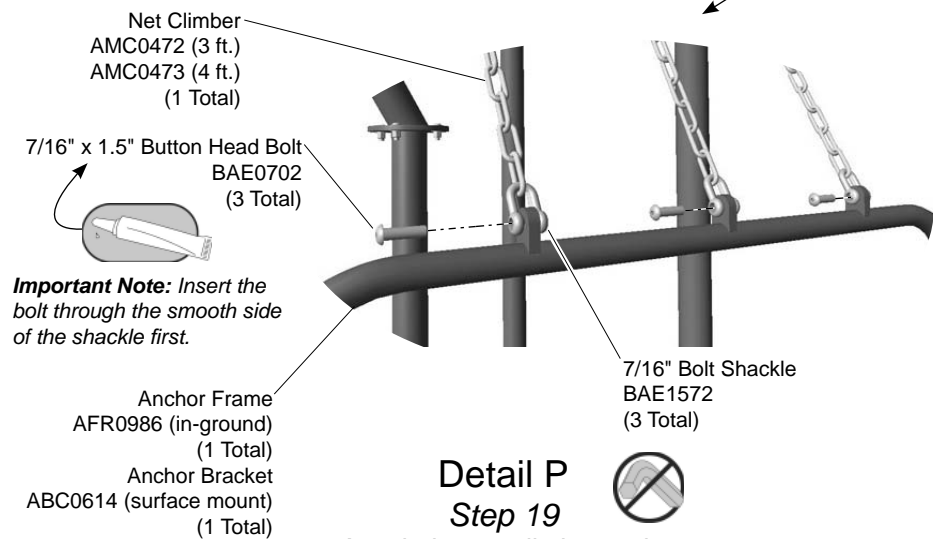


Installation Instructions



Detail O
Step 18

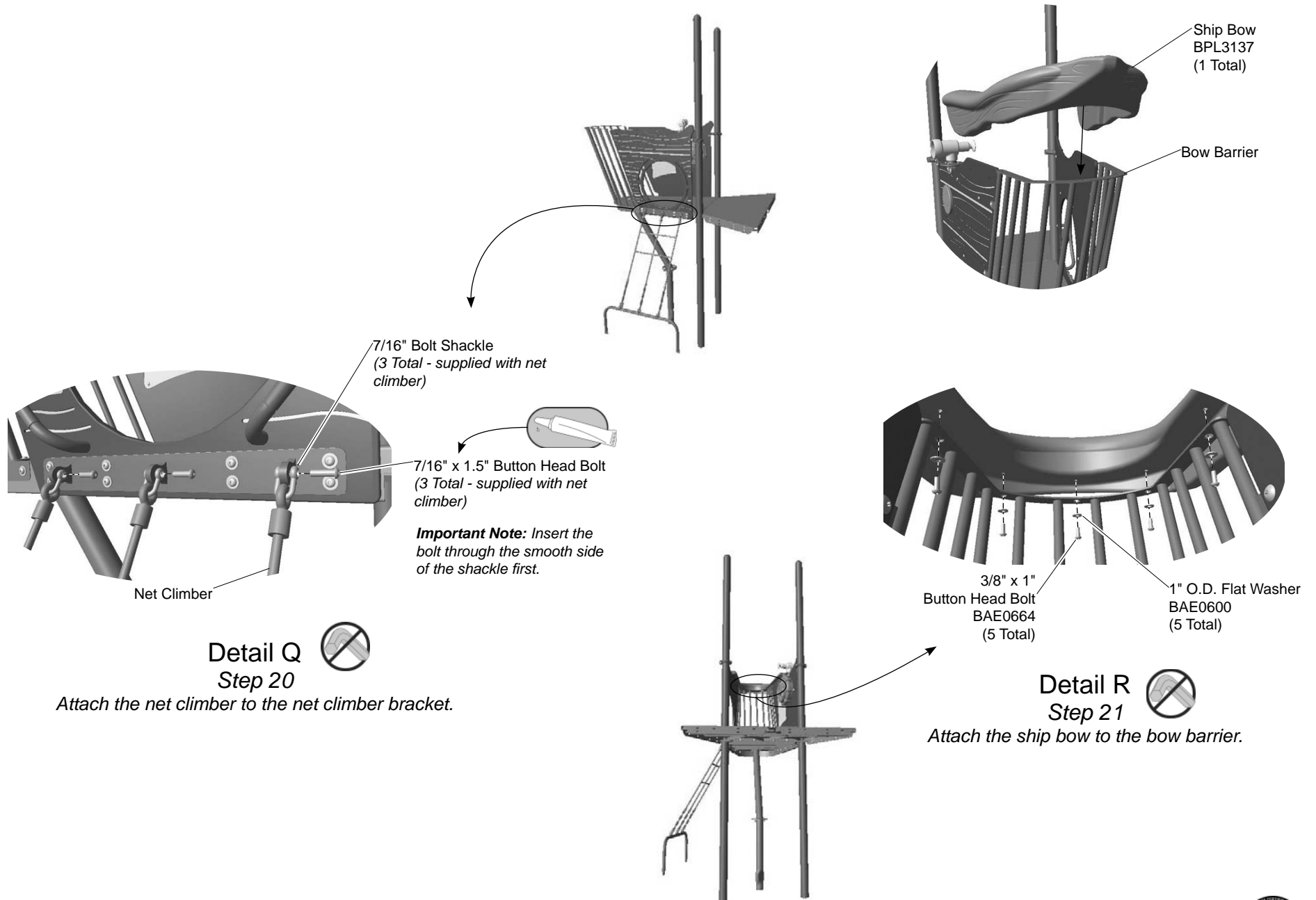
Attach the porthole panel and net climber bracket to the deck.



Detail P
Step 19

Attach the net climber to the anchor frame (in-ground) or bracket (surface mount).

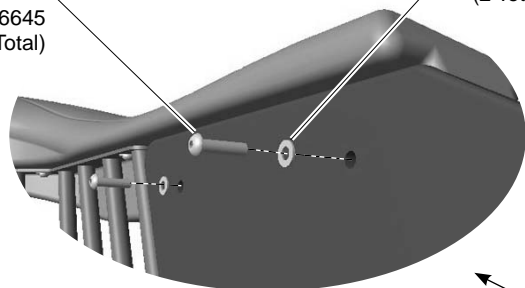
Installation Instructions



Installation Instructions

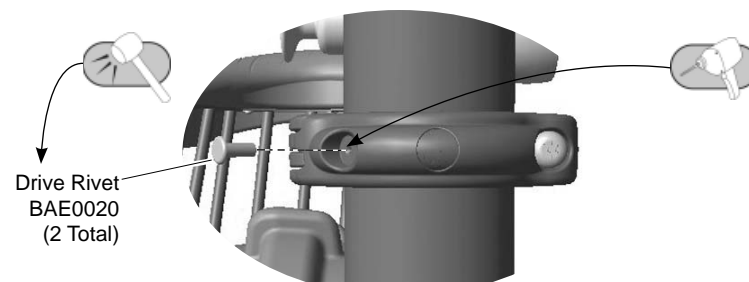
3/8" x 1-1/2"
Button Head Bolt
BAE06645
(2 Total)

3/8" Flat Washer
BAE0595
(2 Total)



Detail S
Step 22

Attach the ship bow to the steering wheel panel.



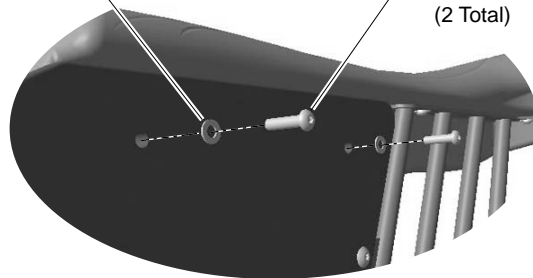
Drive Rivet
BAE0020
(2 Total)

Detail U
Step 25

Secure the clamps to the support posts.

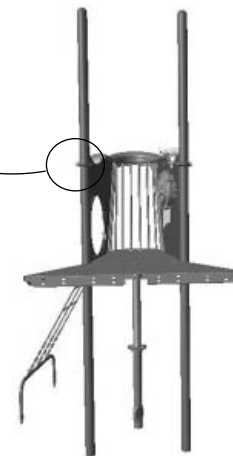
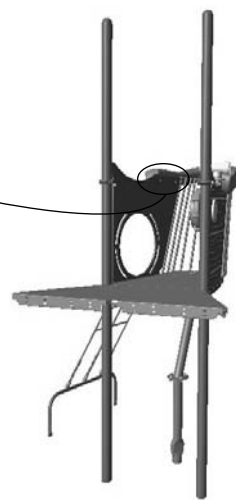
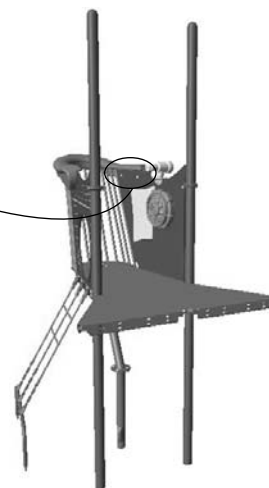
3/8" Flat Washer
BAE0595
(2 Total)

3/8" x 1-1/2"
Button Head Bolt
BAE06645
(2 Total)



Detail T
Step 23

Attach the ship bow to the porthole panel.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise specified.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Footing Details** in the *Challenger Guidelines* at the beginning of this instruction booklet. Reference the **Component Footing Details (net climber anchor frame)** and the **Support Post Footing Details (bow platform anchor leg)** for the in-ground models.

Step 4: (*in-ground models only*) Attach the anchor leg to the platform support post. See **Detail A**. Position the anchor leg plate against one of the plates on the support post and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the platform support post to the bow platform. See **Detail B**. Position the post against the bottom of the platform toward the front and attach as shown. The support post must angle back from the front of the platform as shown. Fully tighten the connections according to the tightening torque specifications.

Step 6: Attach the bow platform to the deck. See **Detail C**. Position the back of the platform against the deck and attach as shown.

Step 7: Attach the bow barrier to the front of the bow platform. See **Detail D**. Position the barrier against the front of the platform and attach as shown.

Step 8: Attach the treasure map panel to the steering wheel panel. See **Detail E**. Place the treasure map panel into the corresponding routed out section in the steering wheel panel and attach as shown. **This is the bow platform side of the panel.** Fully tighten the connections according to the tightening torque specifications.

Attach the steering wheel to the steering wheel panel.

Step 9: Attach the steering wheel to the steering wheel panel. See **Detail F-1**. Attach the steering wheel shaft to the steering wheel as shown. Ensure to slide the larger end of the bronze bushing onto the shaft. Fully tighten the connections according to the tightening torque specifications.

Attach the shaft housing to the steering wheel panel as shown in **Detail F-2**. Fully tighten the connections according to the tightening torque specifications.

Position the steering wheel against the panel with the shaft inserted into the housing and attach as shown in **Detail F-3**. Fully tighten the connections according to the tightening torque specifications.

Attach the housing cover to the steering wheel panel. Place the cover over the shaft housing, align the holes, and attach as shown in **Detail F-4**. Fully tighten the connections according to the tightening torque specifications.

Attach the telescope to the steering wheel panel.

Step 10: Assemble the telescope. See **Detail G-1**. Place the bushing up inside the bottom of the telescope and place the telescope onto the telescope base. Ensure the shaft on the bottom of the telescope fits correctly in the top of the base. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Attach the telescope mounting brackets to the steering wheel panel. See **Detail G-2**. Position the mounting brackets and the spacer against the top of the panel and attach as shown.

Attach the telescope to the mounting brackets. See **Detail G-3**. Place the telescope base on top of the brackets and attach as shown. Ensure the telescope is positioned to be looking away from the panel.

Step 11: Attach the panel connector to the steering wheel panel. See **Detail H**. Position the short leg on the panel connector against the *top left* hole in the side of the panel that will face away from the bow platform. Attach as shown.

Step 12: Attach the clamp to the panel connector. See **Detail I**. Place the flat side of the clamp against the platform side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Installation Instructions

Step 13: Attach the steering wheel panel to support post. See **Detail J**. Position the panel between the support post and bow barrier and close the clamp around the support post. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Step 14: Attach the steering wheel panel to the platform. See **Detail K**. Attach the panel to the platform as shown.

Step 15: Attach the panel connector to the porthole panel. See **Detail L**. Position the short leg on the panel connector against the *top right* hole in the side of the panel that will face away from the bow platform. Attach as shown.

Step 16: Attach the clamp to the panel connector. See **Detail M**. Place the flat side of the clamp against the platform side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 17: Attach the porthole panel to support post. See **Detail N**. Position the panel between the support post and bow barrier and close the clamp around the support post. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Step 18: Attach the porthole panel and net climber bracket to the platform. See **Detail O**. Position the bracket into the routed bottom section of the panel and attach both the bracket and panel to the platform as shown.

Step 19: Attach the chains on the net climber to the anchor frame (*in-ground model*) or the anchor bracket (*surface mount model*). See **Detail P**. Insert a shackle through the last link on each chain, and then over a tab on the anchor. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Important Note: Insert the bolt through the smooth side of the shackle first.

Step 20: Attach the net climber to the net climber bracket. See **Detail Q**. Place the shackle on the end of each rope strand over a tab on the bracket, apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Important Note: Insert the bolt through the smooth side of the shackle first.

Step 21: Attach the ship bow to the bow barrier. See **Detail R**. Position the ship bow on top of the barrier and attach as shown.

Step 22: Attach the ship bow to the steering wheel panel. See **Detail S**. Align the holes in the ship bow with those in the top of the panel and attach as shown.

Step 23: Attach the ship bow to the porthole panel. See **Detail T**. Align the holes in the ship bow with those in the top of the panel and attach as shown.

Final Details.

Step 24: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 25: Install drive rivets. See **Detail U**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 26: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

CH8547 - NAUTICAL BOW 4 ft. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1	BFC3183	SHEET - BOW PANEL w/MAP	1
AAU0148	CASTING - TELESCOPE BASE (LIMITED MOTION)	1	BFC3184	SHEET - BOW w/PORTHOLE	1
AAU0625	CLAMP - 3-1/2" OFFSET CENTERLINE DIE CAST	2	BFC3207	SHEET - TELESCOPE SPACER	1
AAU0635	CONNECT - 3/4" PANEL	2	BFC3208	SHEET - .75" x 8.00" O.D.	1
ABC0249	BRACKET - 1.97" x 2.47" x 5.22" BENT	2	BPL3137	SHIP BOW	1
ABC0612	BRACKET - SHIP NET CLIMBER	1	BPL3138	NAUTICAL - STEERING WHEEL	1
AEN0545	BARRIER - SHIP BOW	1	BPM0239	PLATFORM - SHIP BOW	1
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA. PLATE	1	CGM_____	PANEL - TREASURE MAP	1
AFR0986	ANCHOR - NET CLIMBER	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1			
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1			
AMC0473	ROPE - 48" CLIMBER	1			
APT5127	POST - 3.50" O.D. BOW SUPPORT (4' DECK)	1			
ATM0161	SHAFT - 2.54" x 6.50" O.D.	1			
ATM0162	SHAFT - 2.00" x 5.94" O.D.	1			
BAD0085	THREAD LOCKING ADHESIVE	1			
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2			
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4			
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	8			
BAE0158	WASHER - 1/4" SAE FLAT	16			
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/O NYLON CAP	4			
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4			
BAE0595	WASHER - 3/8" SAE FLAT	28			
BAE0600	WASHER - 1" O.D. FLAT	52			
BAE0610	NUT - 3/8"-16 THIN LOCK	4			
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	25			
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	12			
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2			
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4			
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	17			
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	16			
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2			
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	5			
BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	4			
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	8			
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	3			
BAE0720	NUT - 1/2"-13 LOCK	4			
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	1			
BAE1572	7/16" BOLT SHACKLE	3			
BAE1636	.75" I.D. x .63" BRONZE BUSHING	2			

CH8547S - NAUTICAL BOW 4 ft. (1219 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1	BFC3207	SHEET - TELESCOPE SPACER	1
AAU0148	CASTING - TELESCOPE BASE (LIMITED MOTION)	1	BFC3208	SHEET - .75" x 8.00" O.D.	1
AAU0625	CLAMP - 3-1/2" OFFSET CENTERLINE DIE CAST	2	BPL3137	SHIP BOW	1
AAU0635	CONNECT - 3/4" PANEL	2	BPL3138	NAUTICAL - STEERING WHEEL	1
ABC0249	BRACKET - 1.97" x 2.47" x 5.22" BENT	2	BPM0239	PLATFORM - SHIP BOW	1
ABC0612	BRACKET - SHIP NET CLIMBER	1	CGM_____	PANEL - TREASURE MAP	1
AEN0545	BARRIER - SHIP BOW	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ABC0614	ANCHOR - 33.50" x 2.00" x 2.38"	1			
AMC0151	BUSHING - 2.38" O.D. x .50"	1			
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1			
AMC0473	ROPE - 48" CLIMBER	1			
APT5127	POST - 3.50" O.D. BOW SUPPORT (4' DECK)	1			
ATM0161	SHAFT - 2.54" x 6.50" O.D.	1			
ATM0162	SHAFT - 2.00" x 5.94" O.D.	1			
BAD0085	THREAD LOCKING ADHESIVE	1			
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2			
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4			
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	8			
BAE0158	WASHER - 1/4" SAE FLAT	16			
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/O NYLON CAP	4			
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4			
BAE0595	WASHER - 3/8" SAE FLAT	28			
BAE0600	WASHER - 1" O.D. FLAT	52			
BAE0610	NUT - 3/8"-16 THIN LOCK	4			
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	25			
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	12			
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2			
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4			
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	17			
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	16			
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2			
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	5			
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	3			
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	1			
BAE1572	7/16" BOLT SHACKLE	3			
BAE1636	.75" I.D. x .63" BRONZE BUSHING	2			
BFC3183	SHEET - BOW PANEL w/MAP	1			
BFC3184	SHEET - BOW w/PORTHOLE	1			

CH8548 - NAUTICAL BOW 3 ft. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1	BFC3183	SHEET - BOW PANEL w/MAP	1
AAU0148	CASTING - TELESCOPE BASE (LIMITED MOTION)	1	BFC3184	SHEET - BOW w/PORHOLE	1
AAU0625	CLAMP - 3-1/2" OFFSET CENTERLINE DIE CAST	2	BFC3207	SHEET - TELESCOPE SPACER	1
AAU0635	CONNECT - 3/4" PANEL	2	BFC3208	SHEET - .75" x 8.00" O.D.	1
ABC0249	BRACKET - 1.97" x 2.47" x 5.22" BENT	2	BPL3137	SHIP BOW	1
ABC0612	BRACKET - SHIP NET CLIMBER	1	BPL3138	NAUTICAL - STEERING WHEEL	1
AEN0545	BARRIER - SHIP BOW	1	BPM0239	PLATFORM - SHIP BOW	1
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA. PLATE	1	CGM_____	PANEL - TREASURE MAP	1
AFR0986	ANCHOR - NET CLIMBER	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1			
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1			
AMC0472	ROPE - 36" CLIMBER	1			
APT5128	POST - 3.50" O.D. BOW SUPPORT (3' DECK)	1			
ATM0161	SHAFT - 2.54" x 6.50" O.D.	1			
ATM0162	SHAFT - 2.00" x 5.94" O.D.	1			
BAD0085	THREAD LOCKING ADHESIVE	1			
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2			
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4			
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	8			
BAE0158	WASHER - 1/4" SAE FLAT	16			
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/O NYLON CAP	4			
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4			
BAE0595	WASHER - 3/8" SAE FLAT	28			
BAE0600	WASHER - 1" O.D. FLAT	52			
BAE0610	NUT - 3/8"-16 THIN LOCK	4			
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	25			
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	12			
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2			
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4			
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	17			
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	16			
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2			
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	5			
BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	4			
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	8			
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	3			
BAE0720	NUT - 1/2"-13 LOCK	4			
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	1			
BAE1572	7/16" BOLT SHACKLE	3			
BAE1636	.75" I.D. x .63" BRONZE BUSHING	2			

CH8548S - NAUTICAL BOW 3 ft. (914 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1	BFC3207	SHEET - TELESCOPE SPACER	1
AAU0148	CASTING - TELESCOPE BASE (LIMITED MOTION)	1	BFC3208	SHEET - .75" x 8.00" O.D.	1
AAU0625	CLAMP - 3-1/2" OFFSET CENTERLINE DIE CAST	2	BPL3137	SHIP BOW	1
AAU0635	CONNECT - 3/4" PANEL	2	BPL3138	NAUTICAL - STEERING WHEEL	1
ABC0249	BRACKET - 1.97" x 2.47" x 5.22" BENT	2	BPM0239	PLATFORM - SHIP BOW	1
ABC0612	BRACKET - SHIP NET CLIMBER	1	CGM_____	PANEL - TREASURE MAP	1
AEN0545	BARRIER - SHIP BOW	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ABC0614	ANCHOR - 33.50" x 2.00" x 2.38"	1			
AMC0151	BUSHING - 2.38" O.D. x .50"	1			
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1			
AMC0472	ROPE - 36" CLIMBER	1			
APT5128	POST - 3.50" O.D. BOW SUPPORT (3' DECK)	1			
ATM0161	SHAFT - 2.54" x 6.50" O.D.	1			
ATM0162	SHAFT - 2.00" x 5.94" O.D.	1			
BAD0085	THREAD LOCKING ADHESIVE	1			
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2			
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4			
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	8			
BAE0158	WASHER - 1/4" SAE FLAT	16			
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/O NYLON CAP	4			
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4			
BAE0595	WASHER - 3/8" SAE FLAT	28			
BAE0600	WASHER - 1" O.D. FLAT	52			
BAE0610	NUT - 3/8"-16 THIN LOCK	4			
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	25			
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	12			
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2			
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4			
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	17			
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	16			
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2			
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	5			
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	3			
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	1			
BAE1572	7/16" BOLT SHACKLE	3			
BAE1636	.75" I.D. x .63" BRONZE BUSHING	2			
BFC3183	SHEET - BOW PANEL w/MAP	1			
BFC3184	SHEET - BOW w/PORTHOLE	1			



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WARNING

Attention Owner

The Sky Link and The Sky Arch is designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Sky Link and The Sky Arch can result in serious accidents. The following rules for the use of the Sky Link and The Sky Arch must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Sky Link and The Sky Arch is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the Sky Link or The Sky Arch assembly.
- Users must move in same direction across the length of the Sky Link and The Sky Arch assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.

SUPERVISION INSTRUCTIONS

PLAYWORLD SYSTEMS® THE SKY LINK & THE SKY ARCH

- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.
- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Sky Link and The Sky Arch in accordance with the applicable standard in your area, appropriate for the fall height of the Sky Link and The Sky Arch.
- Review and familiarize warning document supplied with each Sky Link and The Sky Arch shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it. Playworld Systems accepts NO responsibility for improper use.

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



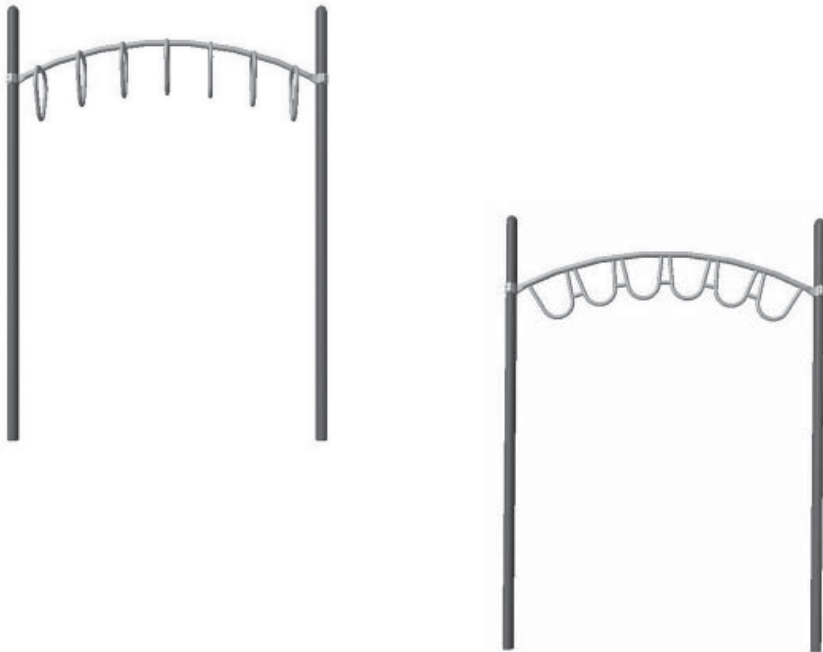
Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet



Assembly View (representative model)

Model	Name	Weight
ZZCH8450	The Sky Link	45.7 lbs. (20,8 kg)
ZZCH8456	The Sky Arch	40.3 lbs. (18,3 kg)

Installation Instructions

Challengers® Models CH8450 & CH8456

The Sky Link & The Sky Arch

Installation Preparation

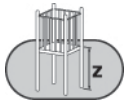
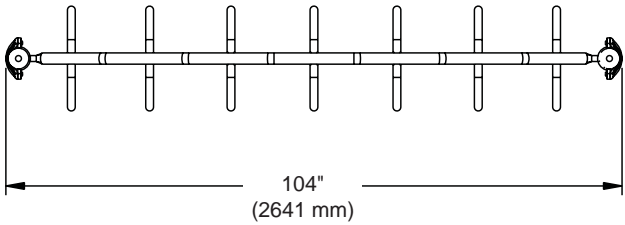
Recommended Crew: Two (2) adults
 Installation Time: 0.5 installation-hours
 Weight: (refer to table)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

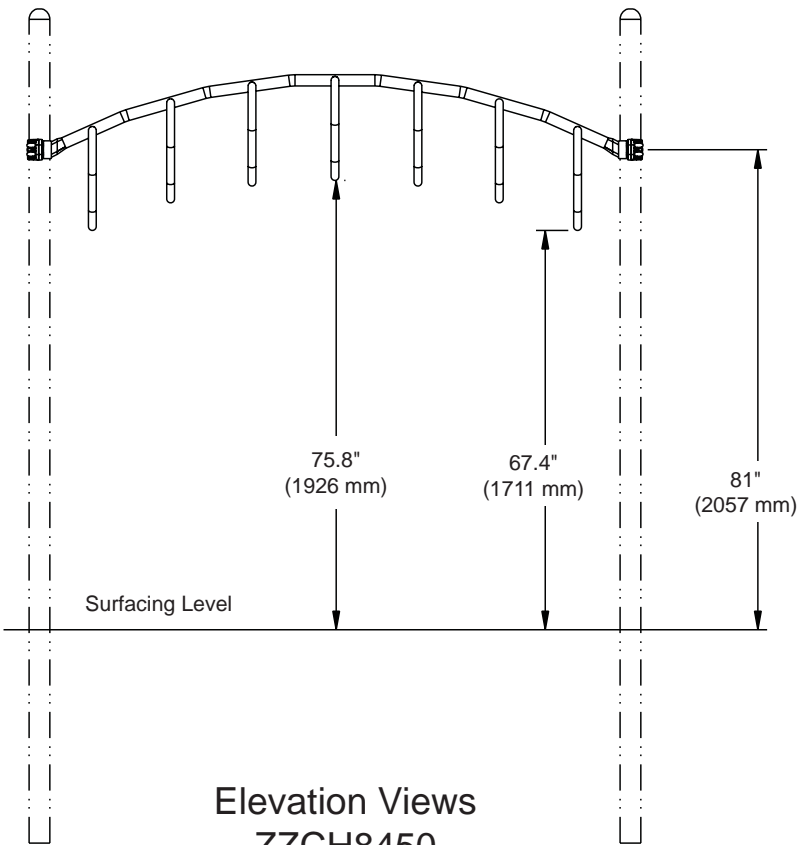
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

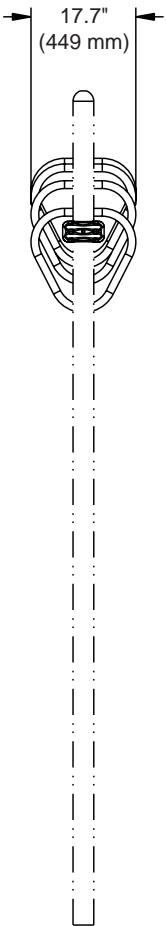
Top View



EN: 1926 mm



Elevation Views
ZZCH8450



18"
(457 mm)
Diameter

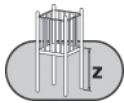
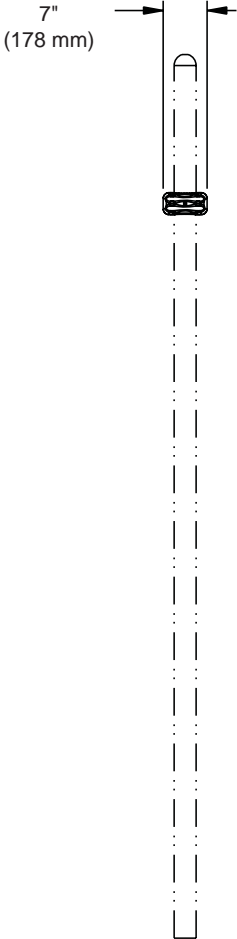
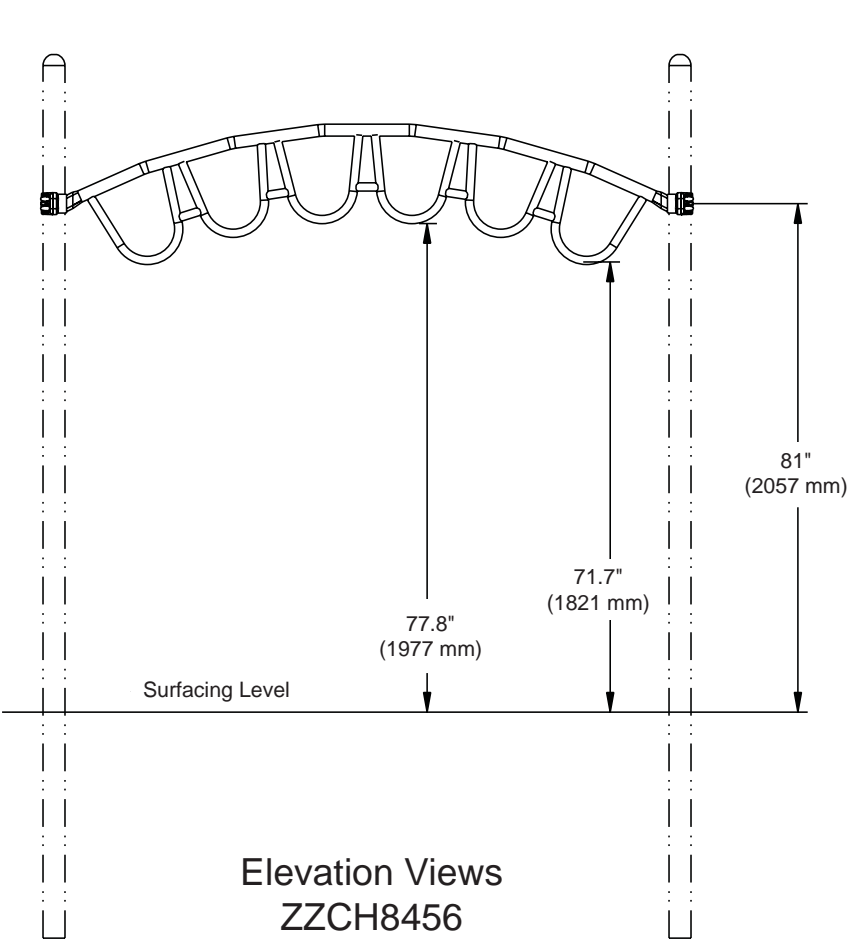
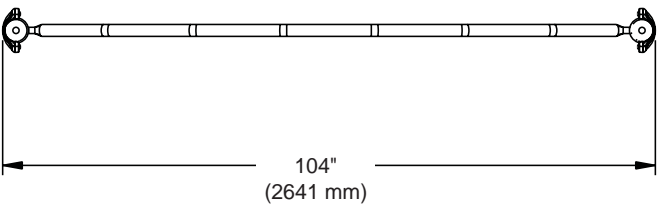
99.7"
(2532 mm)

Footing Diagram
Both Models



Installation Instructions

Top View

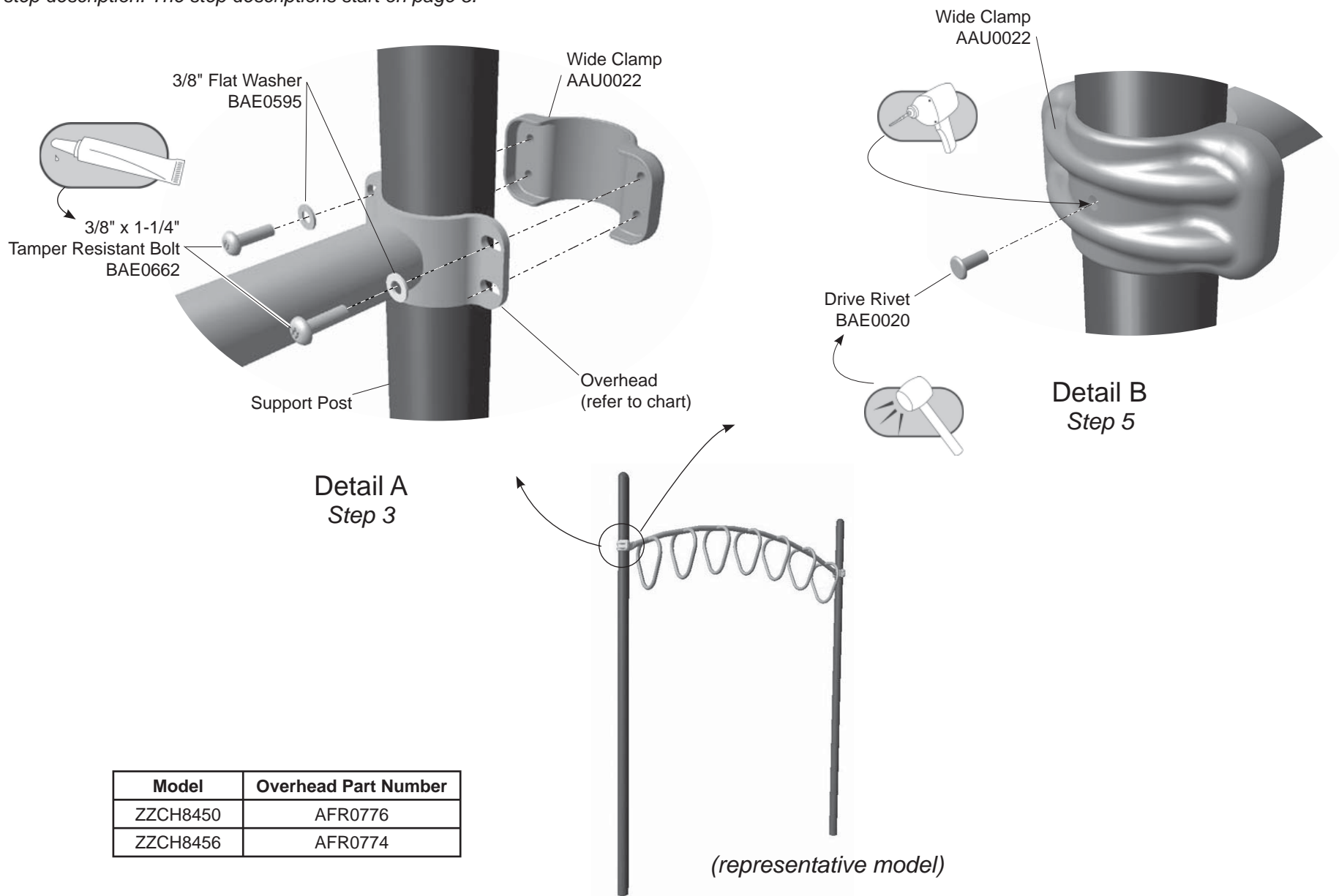


EN: 1977 mm



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model	Overhead Part Number
ZZCH8450	AFR0776
ZZCH8456	AFR0774

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the overhead to the support posts.

Step 3: See **Detail A**. Select the overhead, the clamp, and the appropriate hardware. There are (8) eight connections. Lift the overhead to the appropriate height. Apply a drop of loctite to the bolt threads and attach as shown.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

CH8450 - THE SKY LINK

PART NO.	DESCRIPTION	QTY.
AAU0022	CLAMP - 3-1/2" WIDE ALUMINUM	2
AFR0776	OVERHEAD - ADVENTURE SERIES BACKBONE (CH)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	8

CH8456 - THE SKY ARCH

PART NO.	DESCRIPTION	QTY.
AAU0022	CLAMP - 3-1/2" WIDE ALUMINUM	2
AFR0774	OVERHEAD - ADVENTURE SERIES LOOP (CH)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	8



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CHALLENGERS[®]
MODEL CH0149
STEP AROUND



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Weight: 6.7 Lbs. (3 Kilos)
Use Zone: Refer to the master structure drawing
User Group: Ages 2 - 12 years - (See Elevation View)

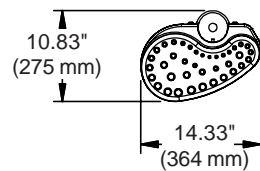
Torque Specification:

Bolts & Nuts: Snug tighten and
tighten an additional one-half turn.

Maintenance . . .

- Playworld Systems[®] strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with the appropriate standard for your location appropriate for the fall height of each structure.
- Playworld Systems[®] strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

INSTALLATION INSTRUCTIONS



Top View

Critical Fall Height

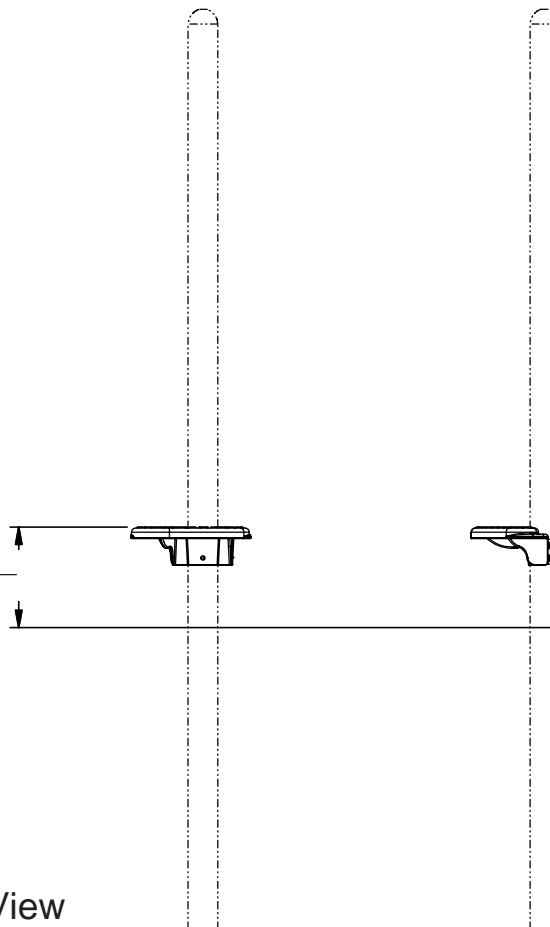
=The height of the step above surfacing

Important Note:

Ages 2-12 - maximum height of Step Around is 20 in. (508 mm).

Ages 5-12 - maximum height of Step Around is 30 in. (762 mm).

12" (305 mm)
to
30" (762 mm)
See Note



Elevation View

INSTALLATION INSTRUCTIONS

INSTALLATION

✓Notes Before You Begin:

- Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.
- If during the installation process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the telephone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

Step 3: Determine placement of the Step Around by referring to the Master Plan View.

Attach the Step Around to the support post

Step 4: Attach the Step Around to the support post. See **Detail A**. Select the Step Around, a wide steel clamp band, (4) four 3/8" x 1" button head bolts, and (4) four 3/8" flat washers. Sandwich the post between the Step Around and the wide clamp band, and align the holes. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, the clamp band, and thread into the Step Around. Start all bolts before tightening any, and then snug tighten only to allow for height and position adjustments.

Step 5: Position the Step Around at the correct height and orientation. See **Elevation View** and **Important Note** below. Based on the intended user group move the Step Around to the appropriate height and orientation. Tighten the bolts, drawing the clamp band up evenly. *The Step Around may be mounted at a lower height but may not exceed the maximum for the intended user group.*

Important Note:

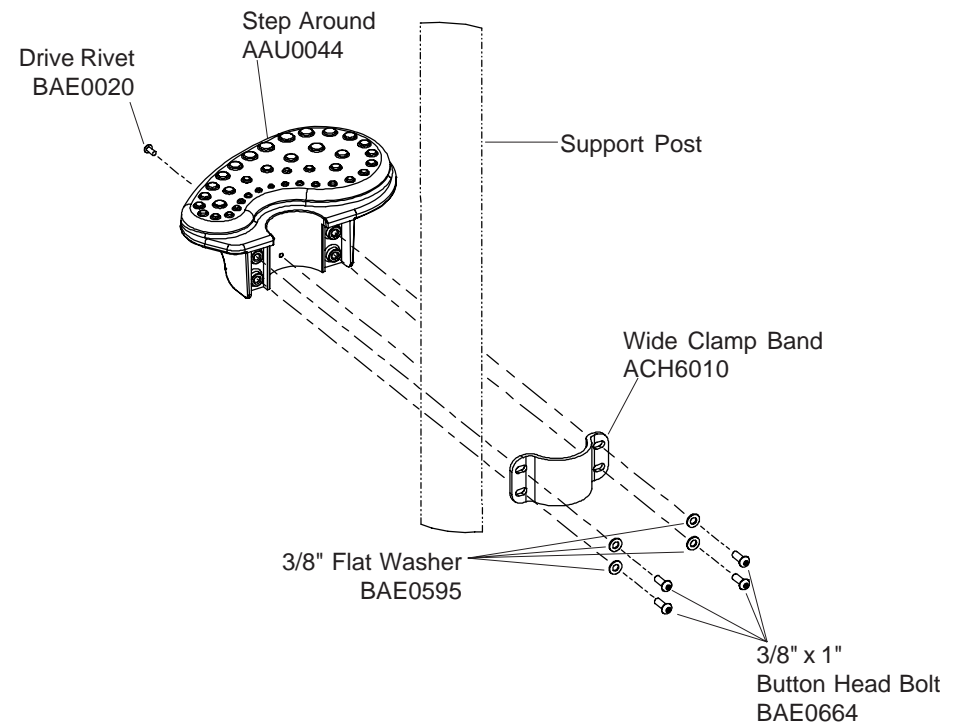
For a user group ages 2-12 the maximum height of the Step Around is 20 in. (508 mm).
For a user group ages 5-12 the maximum height of the Step Around is 30 in. (762 mm).

Final Details.

Step 6: Plumb and level the entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.

Step 7: Install the drive rivet. See **Detail A**. After the equipment assembly is complete, install a drive rivet in the Step Around casting to permanently secure it to the support post. Using a 1/4" drill bit, using the hole in the casting as a guide, drill into the support post. Insert the drive rivet into hole until the head of the rivet is against the surface of the casting. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



Detail A

INSTALLATION INSTRUCTIONS

BILL OF MATERIAL

CH - STEP AROUND

PART NO.	DESCRIPTION	QTY.
AAU0044	CASTING - 3-1/2" STEP AROUND	1
ACH6010	CLAMP - 3-1/2" x 3" WIDE STEEL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4 x 11/16 DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4

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Assembly View

Installation Instructions

Challengers® Model CH6850
U-Bounce

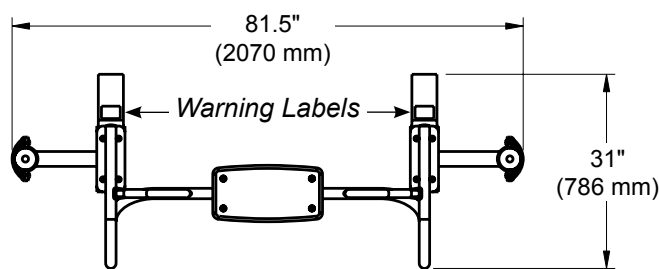
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 3 man-hours
Weight: 102.9 lbs. (46,7 kg)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

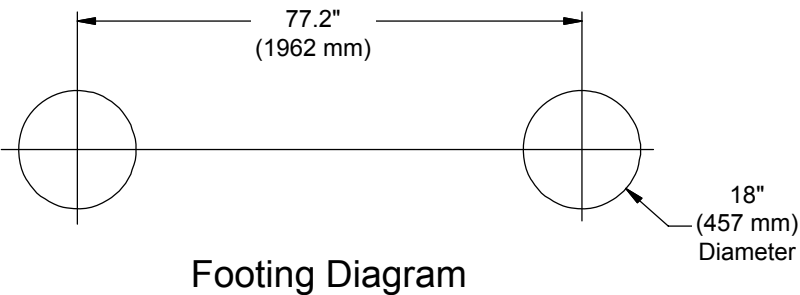
ICON KEY

	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Hammer
	Drill		

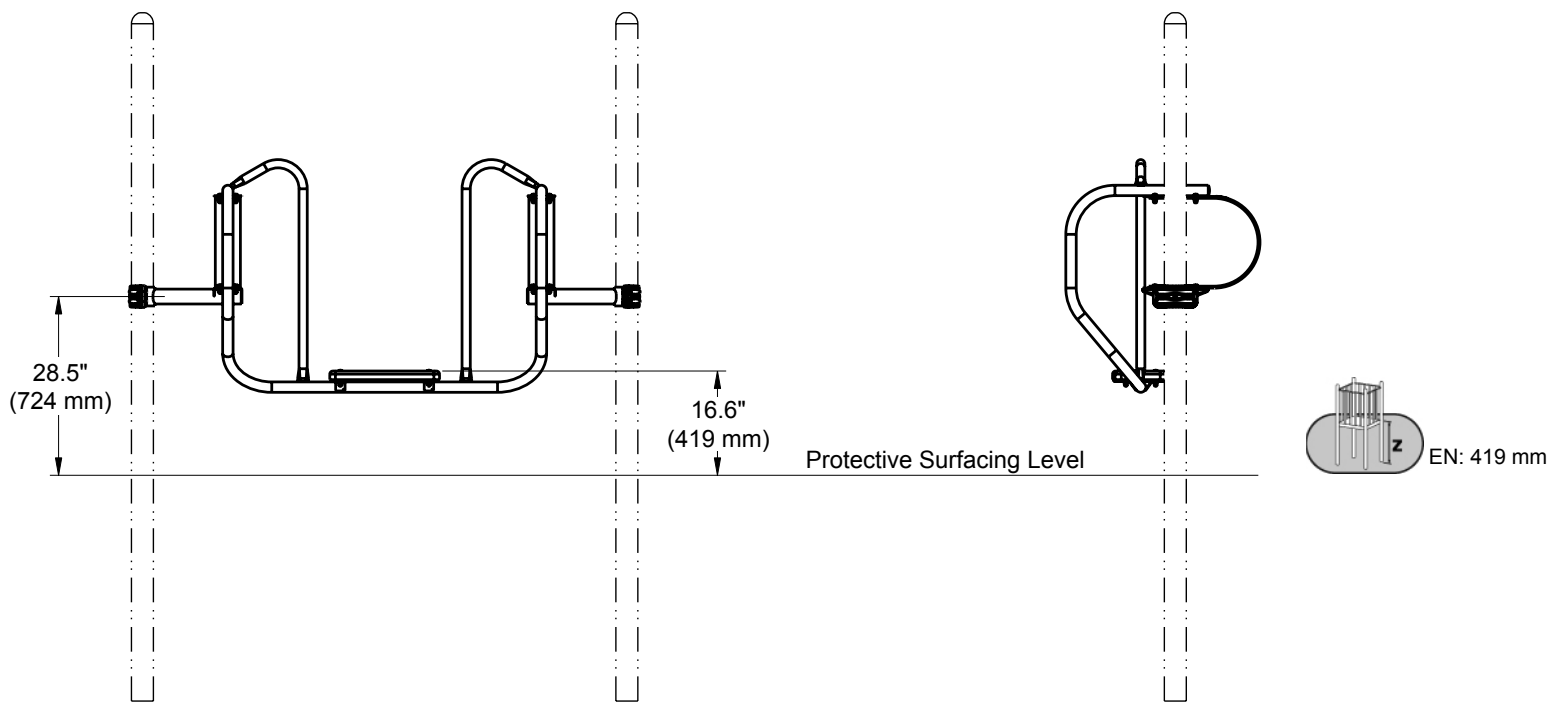
Installation Instructions



Top View



Footings Diagram

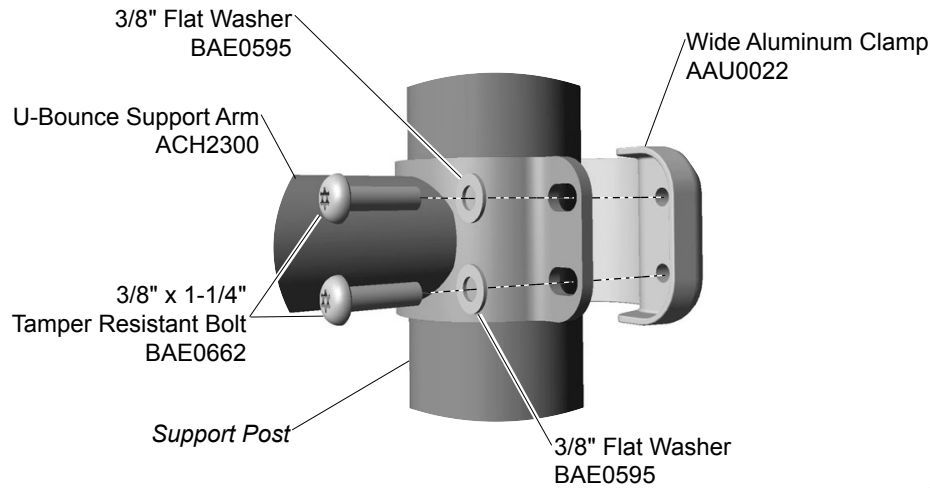


Elevation Views

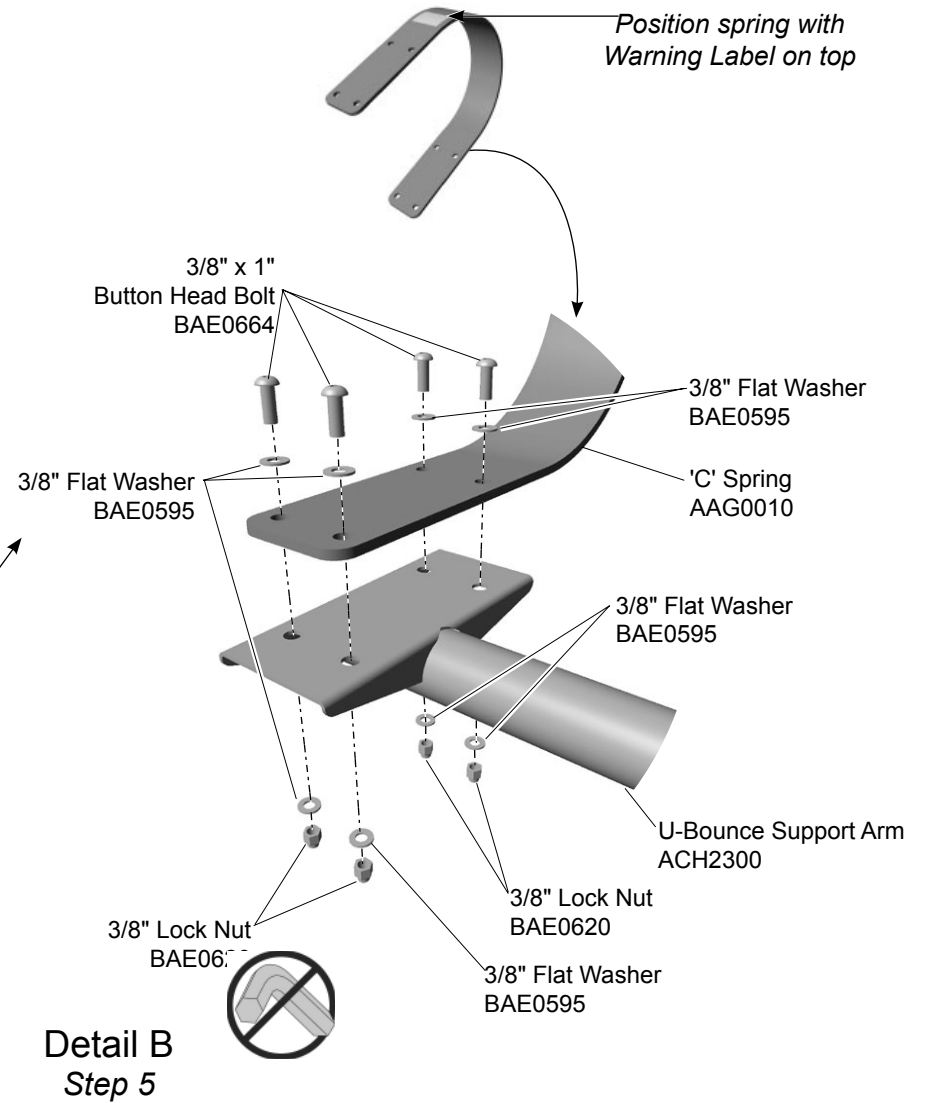
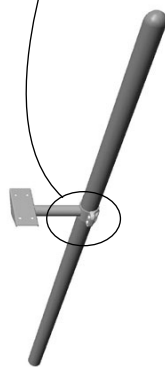


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

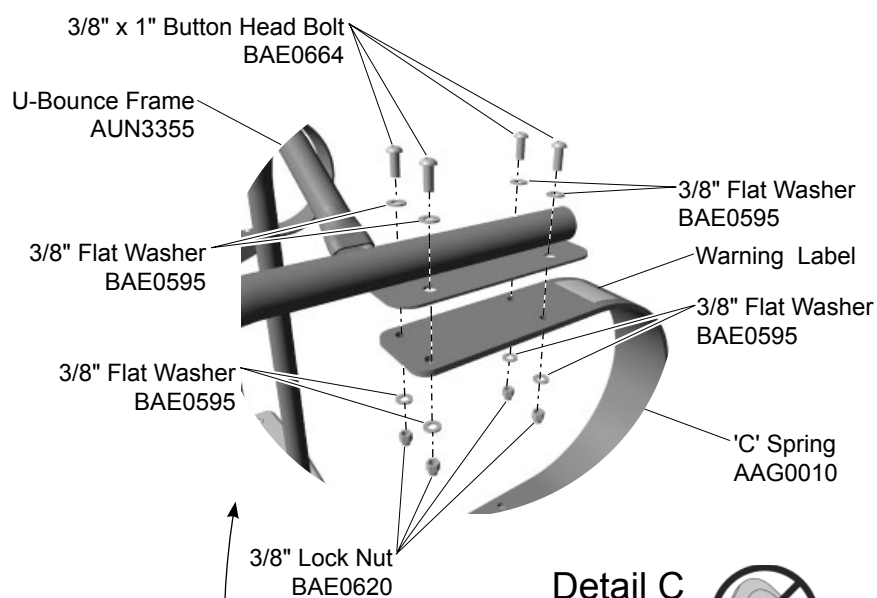


Detail A
Step 4

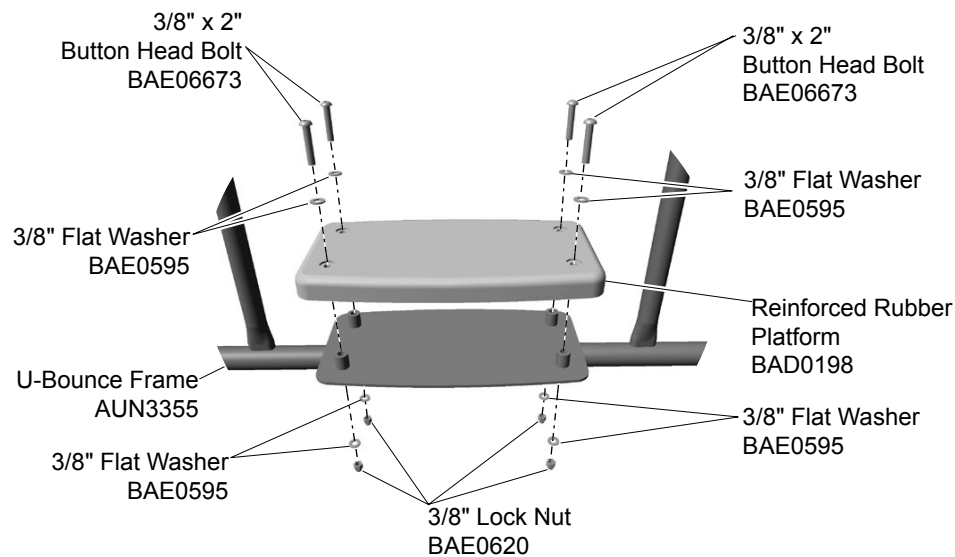


Detail B
Step 5

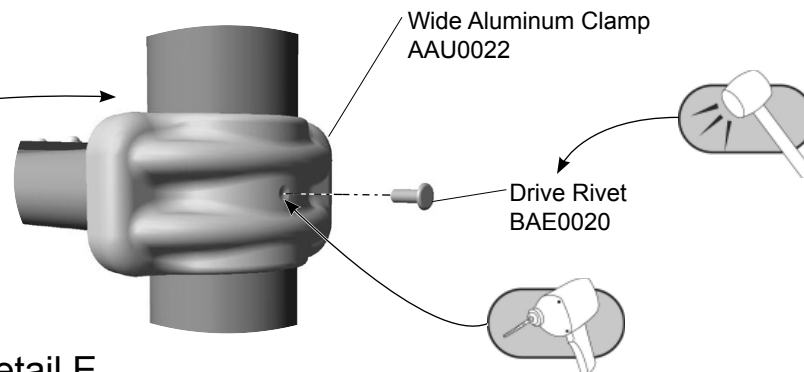
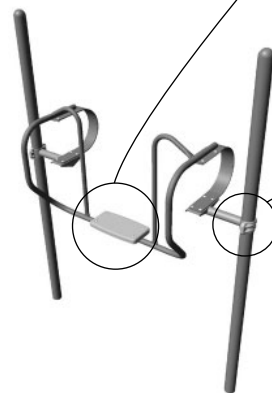
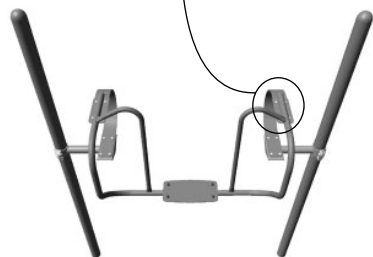
Installation Instructions



Detail C
Step 6



Detail D
Step 7



Detail E
Step 9

CAUTION

The GroundZero U-Bounce Component Has Been Designed To be Occupied By a Maximum Of (2) Two Users. Close Supervision Is Recommended

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Determine proper placement of the component based on the master structure drawing.

Attach U-Bounce support arm to support post.

__Step 4: Attach the U-Bounce support arm to the support post. See **Detail A**. Select (2) two U-Bounce support arms, (2) two wide aluminum clamps and the appropriate hardware. There are (8) eight connections. Position the U-Bounce support arms and clamps against the support posts at the height specified in the **Elevation View** and attach as shown. Start all bolts before tightening. Then tighten the sides evenly.

Note: The support arms should measure 28.5" (724 mm) above the surfacing level to the center of the clamp band.

Attach 'C' springs to support arms.

__Step 5: Attach 'C' springs to support arms. See **Detail B**. Select (2) two 'C' Springs, and the appropriate hardware. There are (8) eight connections. Position each 'C' spring on top of a support arm and attach as shown.

Note: Orient the 'C' spring with the Warning Label on top.

Attach U-Bounce frame to 'C' springs.

__Step 6: Attach U-Bounce frame to 'C' springs. See **Detail C**. Select the U-Bounce frame, and the appropriate hardware. There are (8) eight connections. Position the U-Bounce frame on top of the 'C' springs and attach as shown.

Attach U-Bounce platform to U-Bounce frame.

__Step 7: Attach U-Bounce platform to U-Bounce frame. See **Detail D**. Select (1) one platform, and the appropriate hardware. There are (4) four connections. Position the platform over the U-Bounce platform mounting plate and attach as shown.

Note: After the completing assembly of the U-Bounce, the dimension from the top surface of the platform to the top of the surfacing material should measure 16.5" (419 mm).

Final Details.

__Step 8: Plumb and level entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

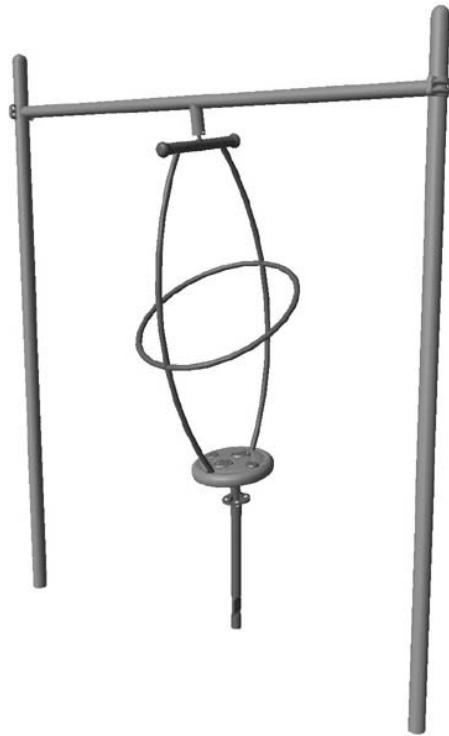
__Step 9: Install drive rivets. See **Detail E**. After the U-Bounce has been completely assembled and footed in concrete, install a drive rivet in each clamp band to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp band and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp band. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

CH6850 - U-BOUNCE

PART NO.	DESCRIPTION	QTY.
AAG0010	SPRING - 14-5/8" x 17-3/4" 'C' w/GZ LABEL	2
AAU0022	CLAMP - 3-1/2" WIDE ALUMINUM	2
ACH2300	FRAME - U-BOUNCE SUPPORT ARM w/3-1/2" CLAMP	2
AUN3355	FRAME - U-BOUNCE	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAD0198	REINFORCED RUBBER PLATFORM	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	48
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4

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Assembly View

Installation Instructions

Challengers® Model CH6810

Vortex

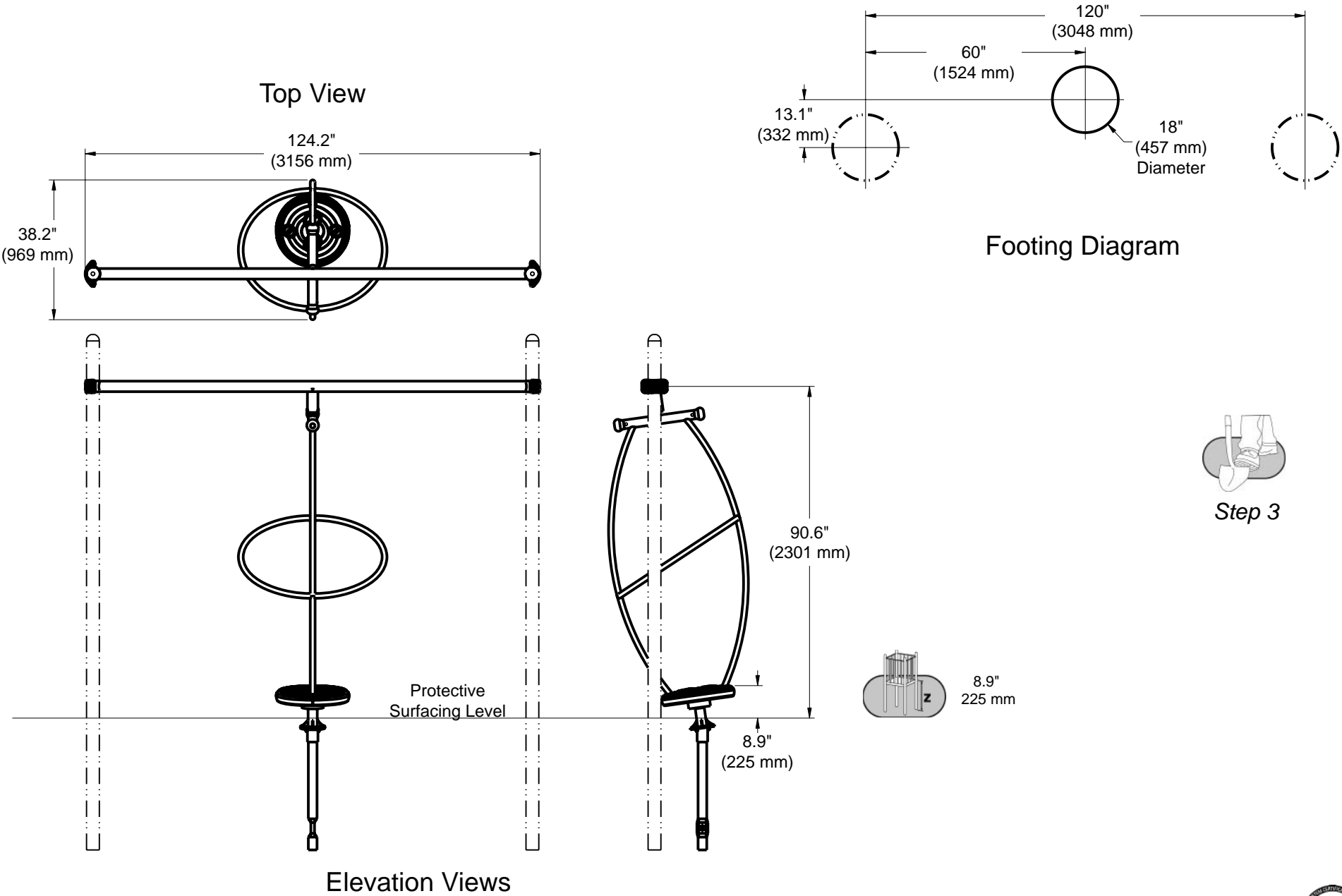
Installation Preparation

- Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Weight: *161 lbs. (73 kg)
Concrete Required: 0.13 cubic yard (0,10 cubic meters)
Use Zone:..... Refer to Master Layout Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

**Weight is approximate for determining manpower.*

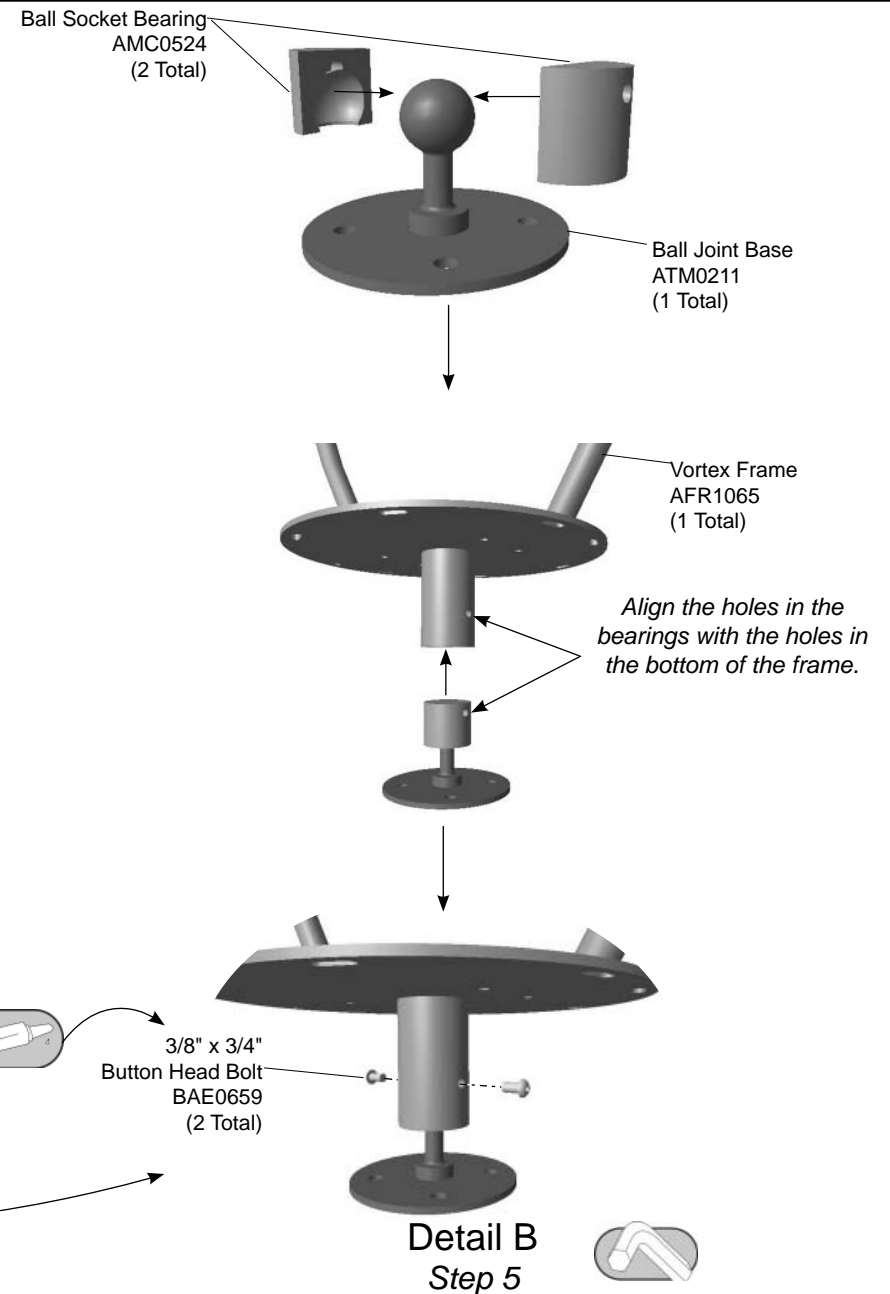
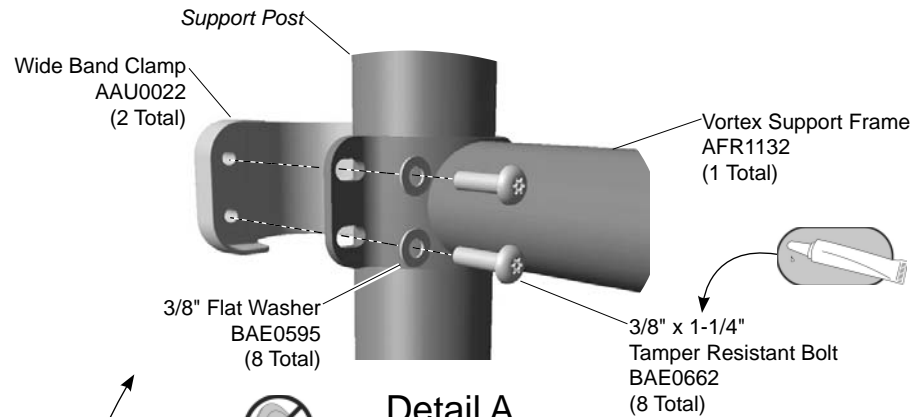
ICON KEY	
	Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions

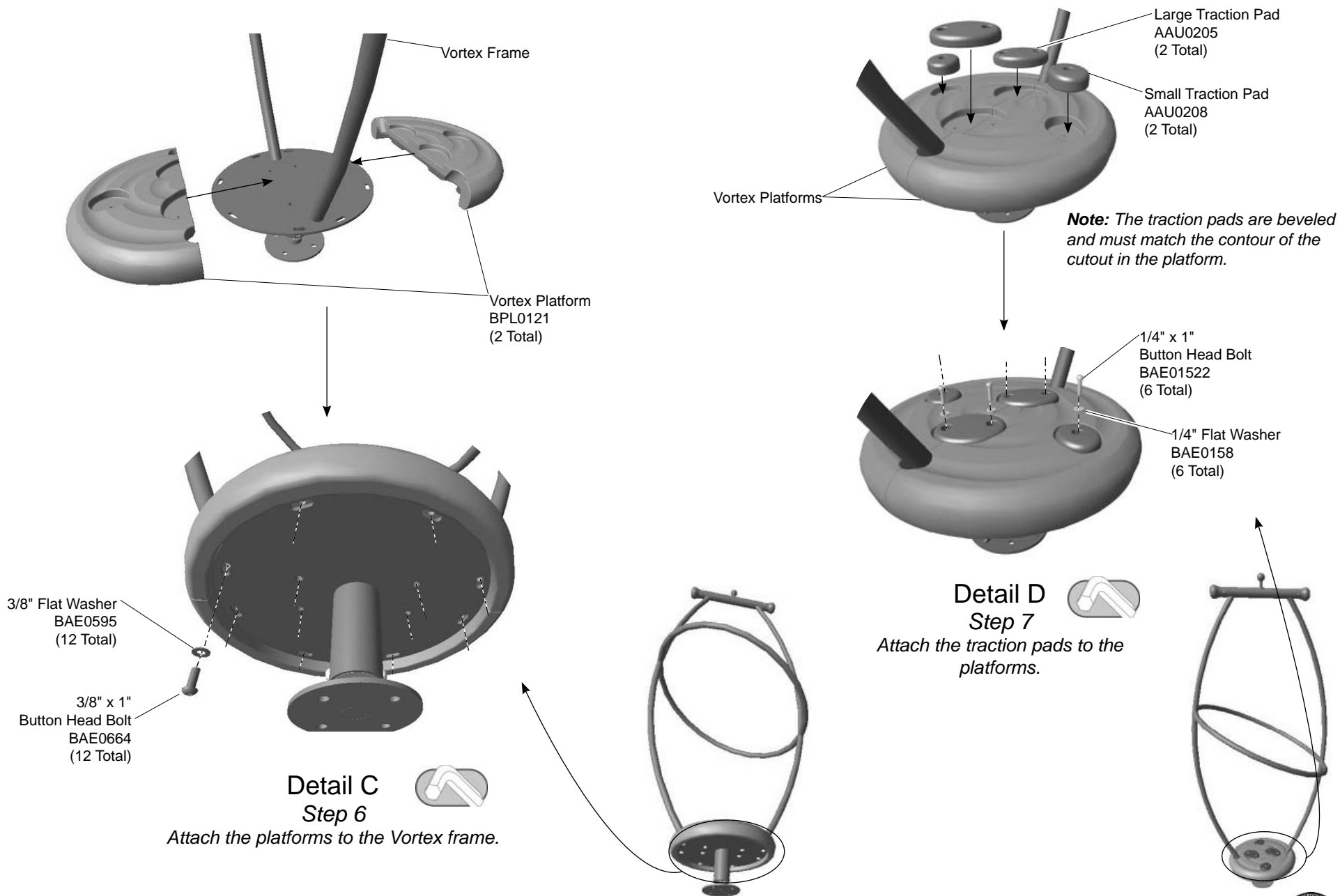


Installation Instructions

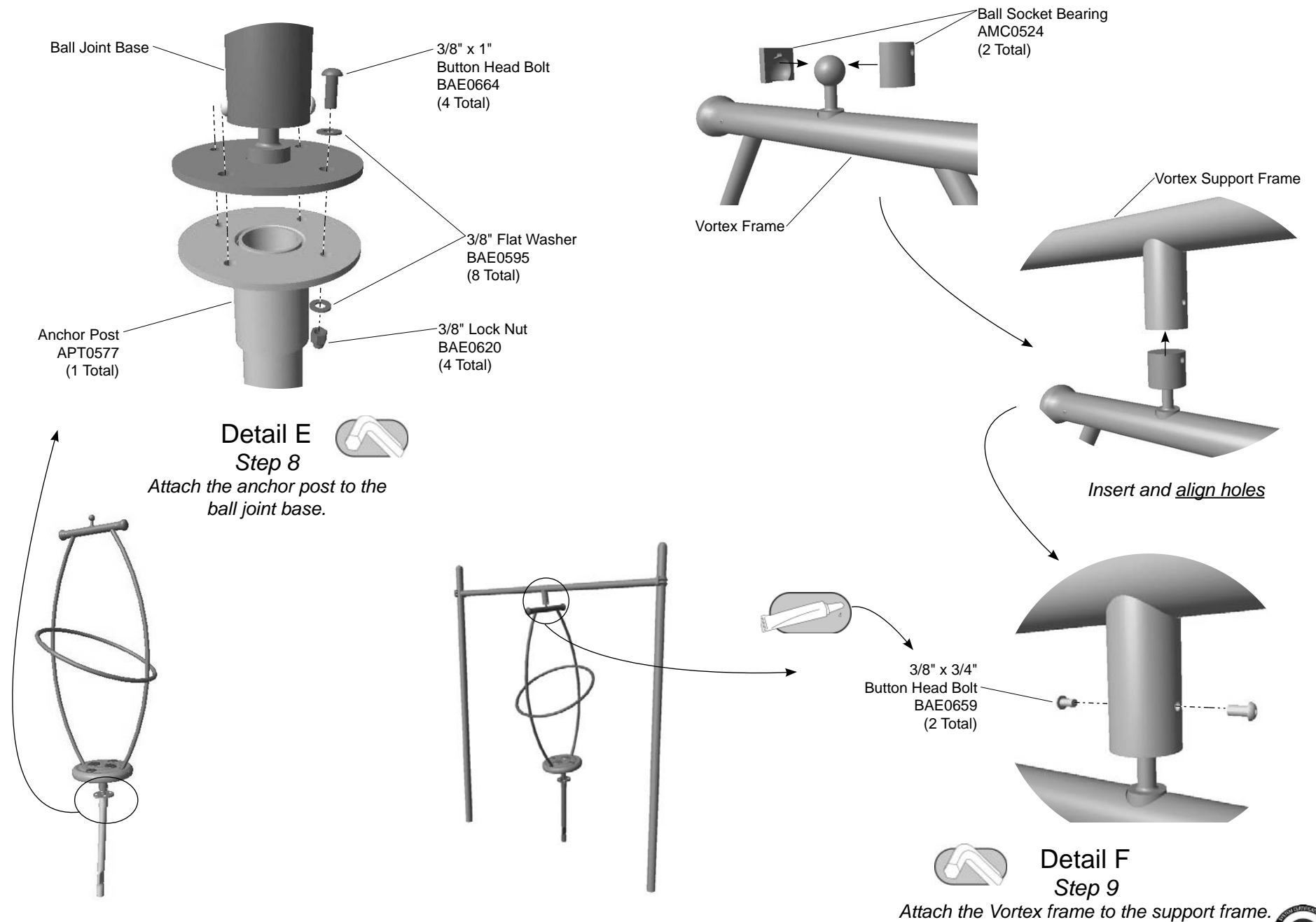
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



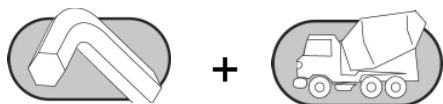
Installation Instructions



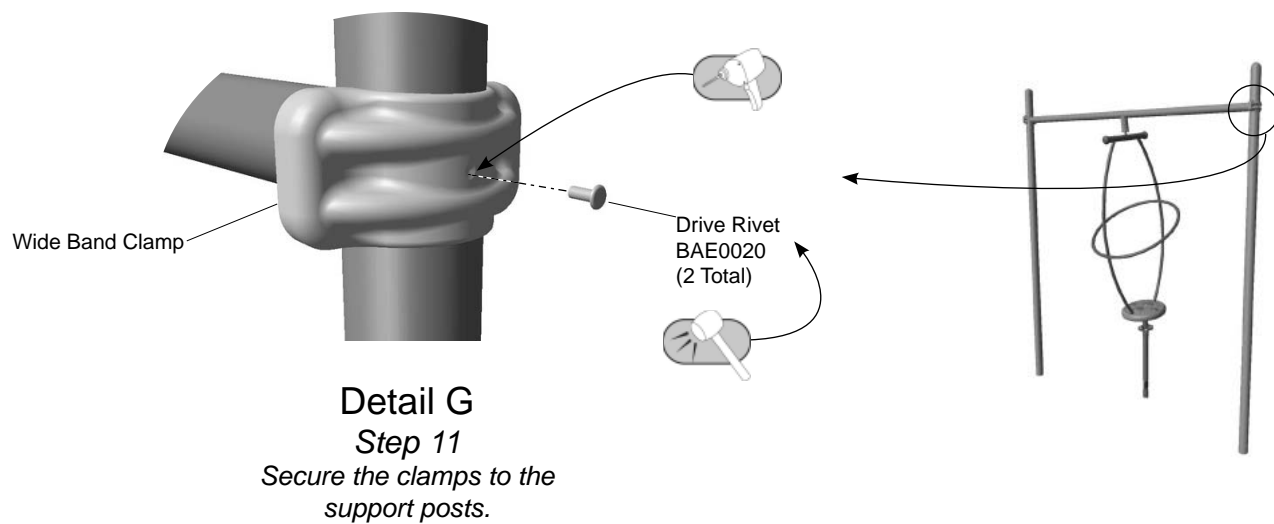
Installation Instructions



Installation Instructions



Step 10



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details**. Refer to the support post diagram and footings notes included in the Challenger Guidelines at the beginning of the printed instruction booklet. *(If viewing on the CD refer to ZZCHGUID.)* When fully tightening the connections, follow the recommended **Torque Specifications:**

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 4: Attach the support frame to the support posts. See **Detail A**. Position the support frame between the support posts at the height indicated in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 5: Attach the bearing assembly to the Vortex frame. See **Detail B**. Close the ball socket bearings around the top of the ball joint base and insert the base into the bottom of the spinner frame and align the holes in the socket bearings with those in the frame. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 6: Attach the platforms to the Vortex frame. See **Detail C**. Position the platforms on the frame and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 7: Attach the traction pads to the platforms. See **Detail D**. Insert each traction pad into it's corresponding indentation in the platform and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Note: *the traction pads are beveled and must match the contour of the cutout in the platform.*

Step 8: Attach the anchor post to the bearing unit. See **Detail E**. Position the top of the anchor post against the bottom of the bearing unit and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 9: Attach the Vortex assembly to the support frame. See **Detail F**. Place the socket bearings around the ball on the top of the Vortex frame assembly. With adequate manpower, lift the assembly up and into the support frame and align the holes in the socket bearings with those in the frame. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 11: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 12: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

CH6810 - VORTEX

PART NO.	DESCRIPTION	QTY.
AAU0022	CLAMP - 3-1/2" W.I.D.E ALUMINUM	2
AAU0205	4.88" TRACTION PAD	2
AAU0208	3.38" TRACTION PAD	2
AFR1065	FRAME - 87.27" x 37.16" x 40.59"	1
AFR1132	FRAME - VORTEX (CH)	1
AMC0524	BEARING - BALL SOCKET	4
APT0577	POST - VORTEX	1
ATM0211	BALL JOINT - SURFACE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	6
BAE0158	WASHER - 1/4" SAE FLAT	6
BAE0595	WASHER - 3/8" SAE FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BPL0121	VORTEX PLATFORM	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®




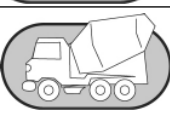
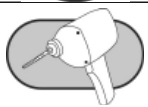

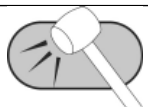
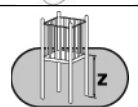
Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

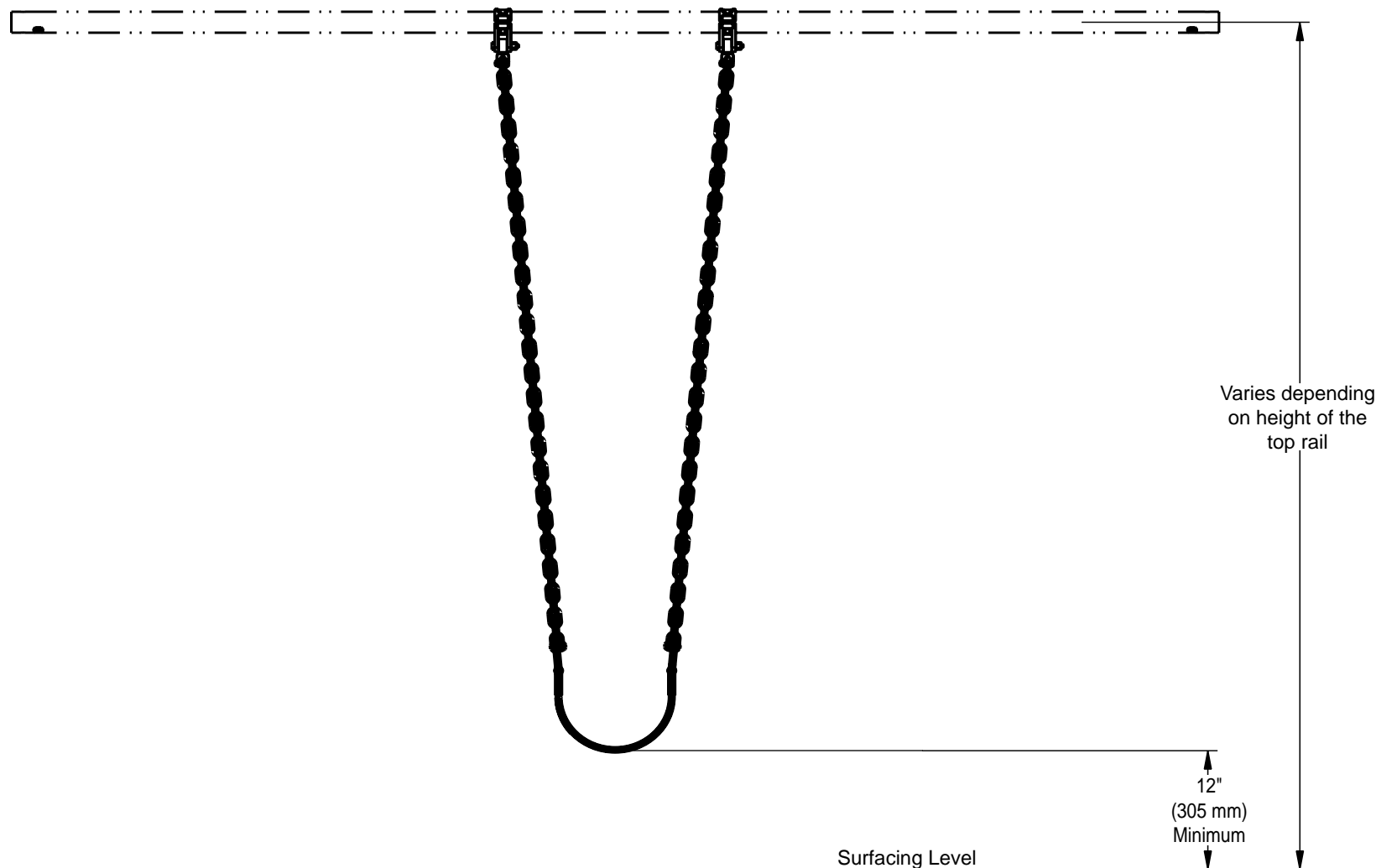
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

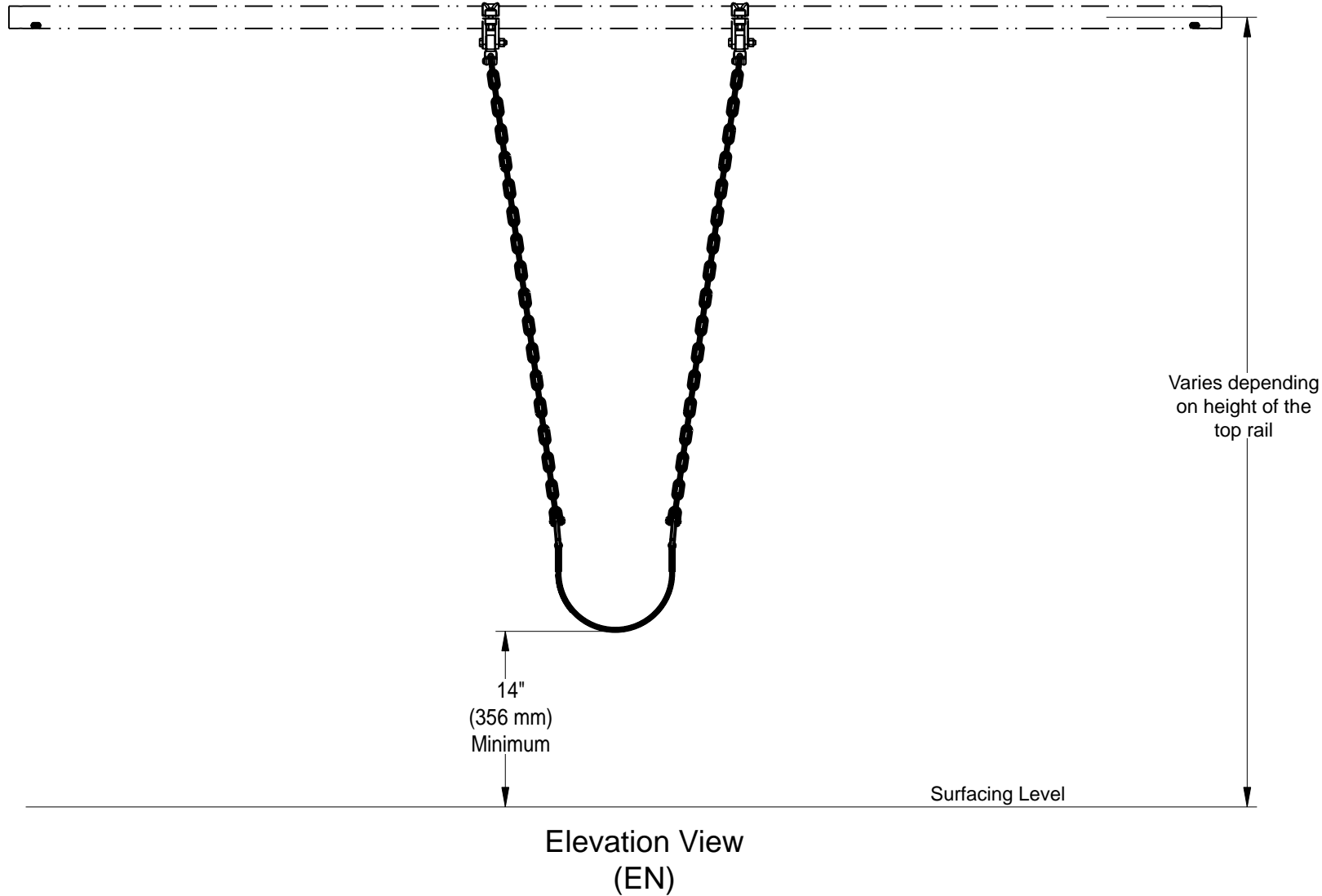


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



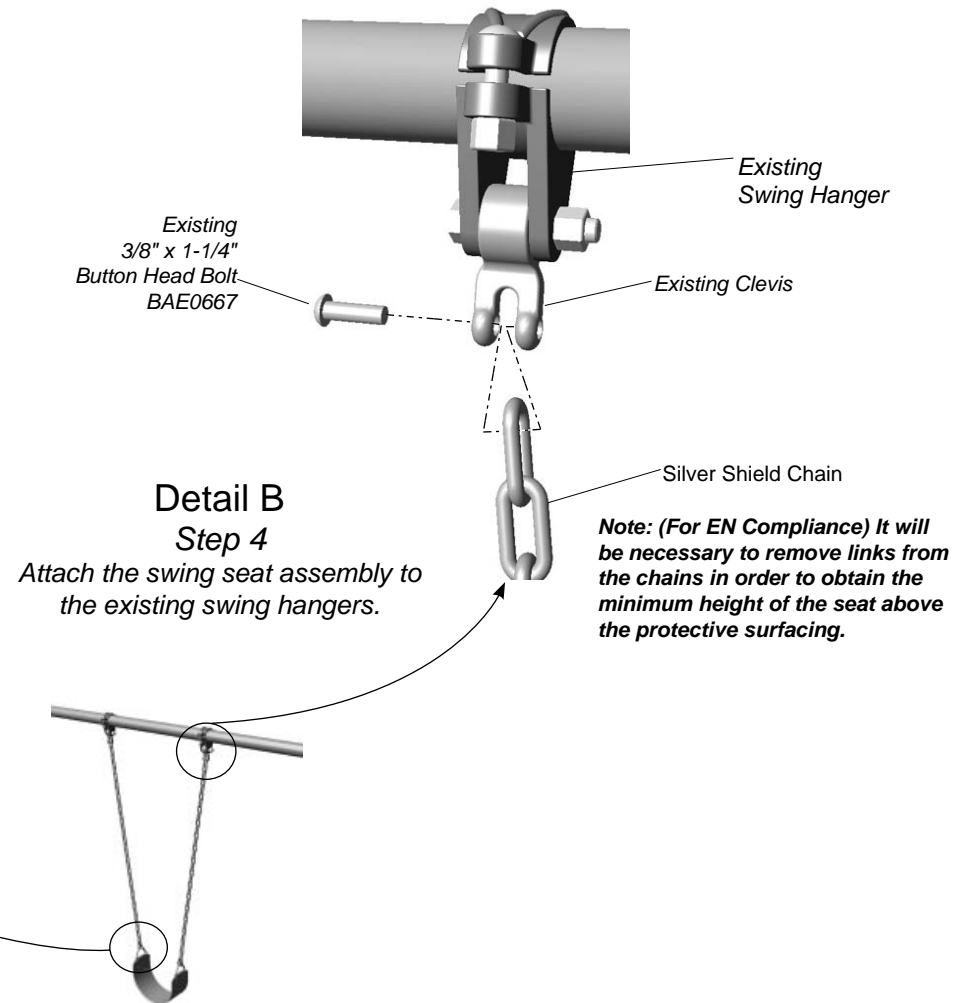
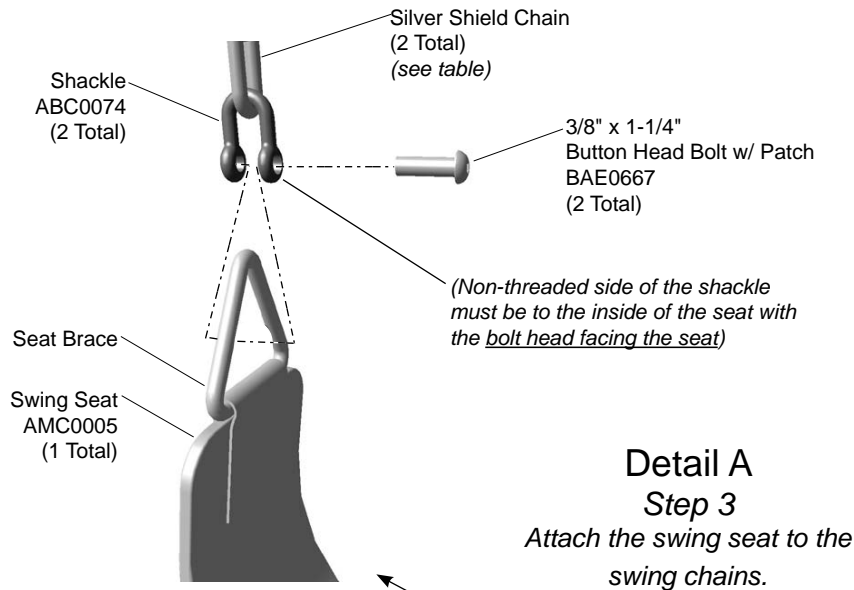
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Weight: See table below
 Use Zone: Refer to the swing frame instructions
 User Group: Ages 2 - 5 years

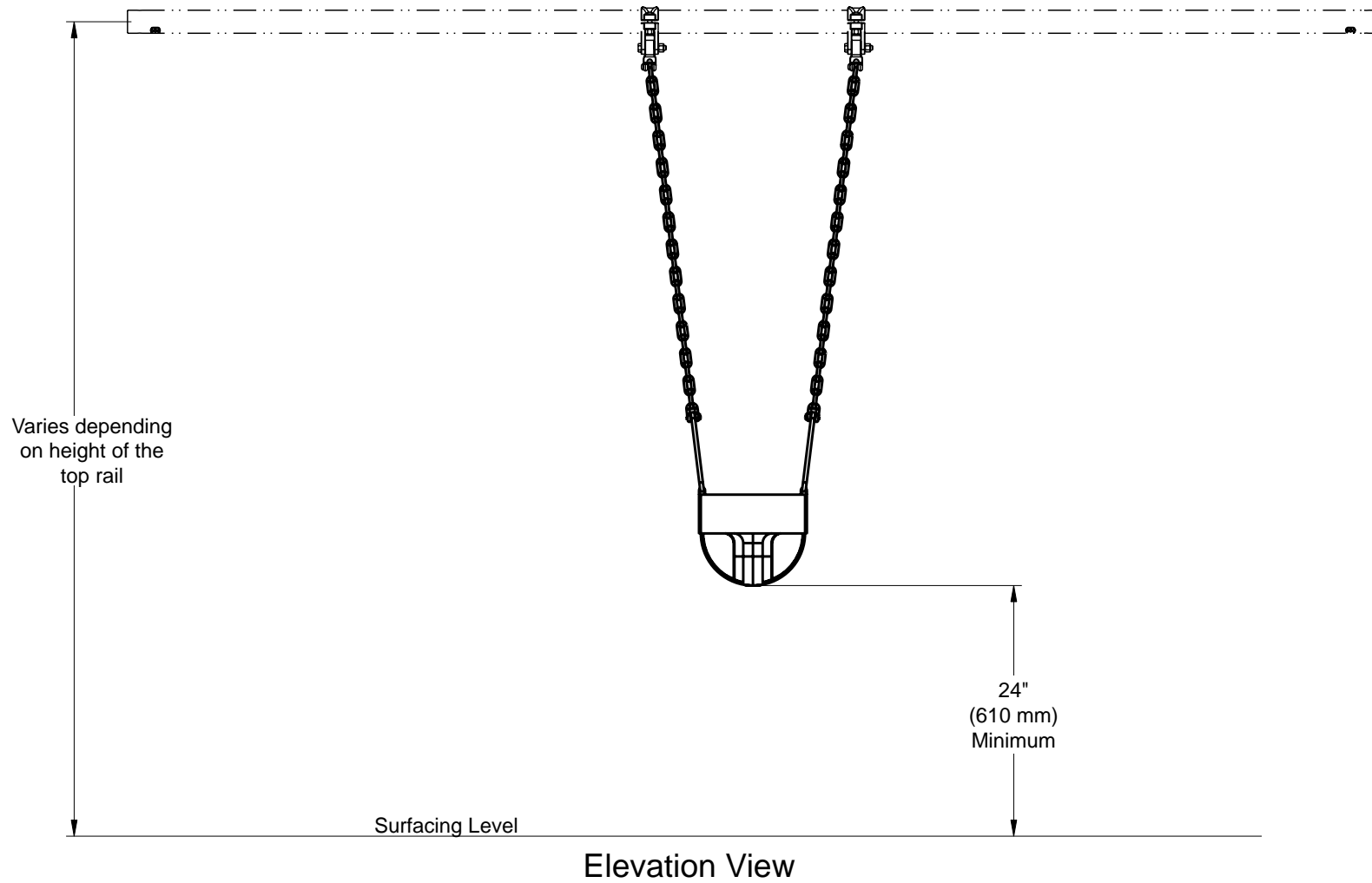
Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

ICON KEY



Fully Tighten
Hardware

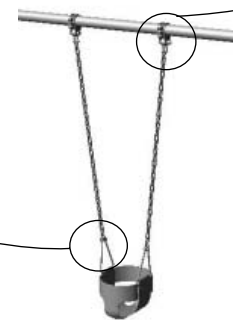
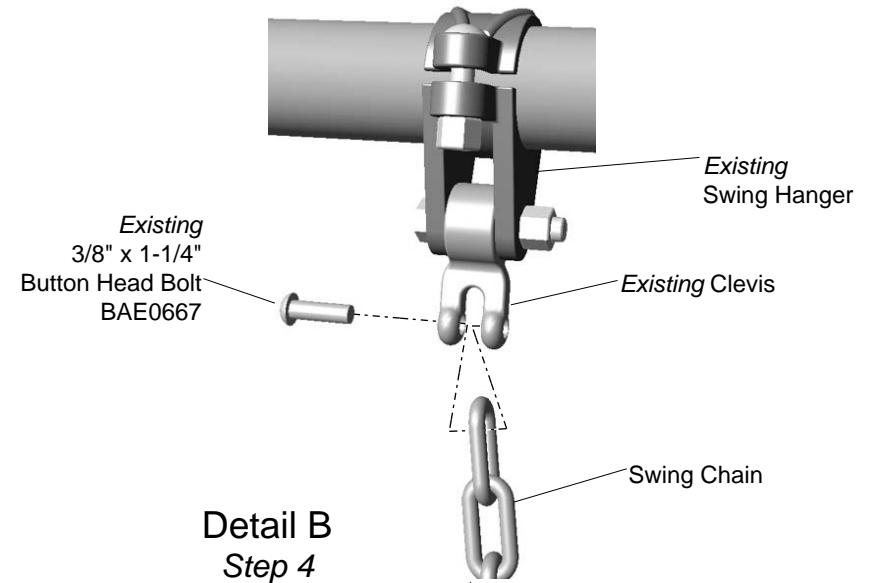
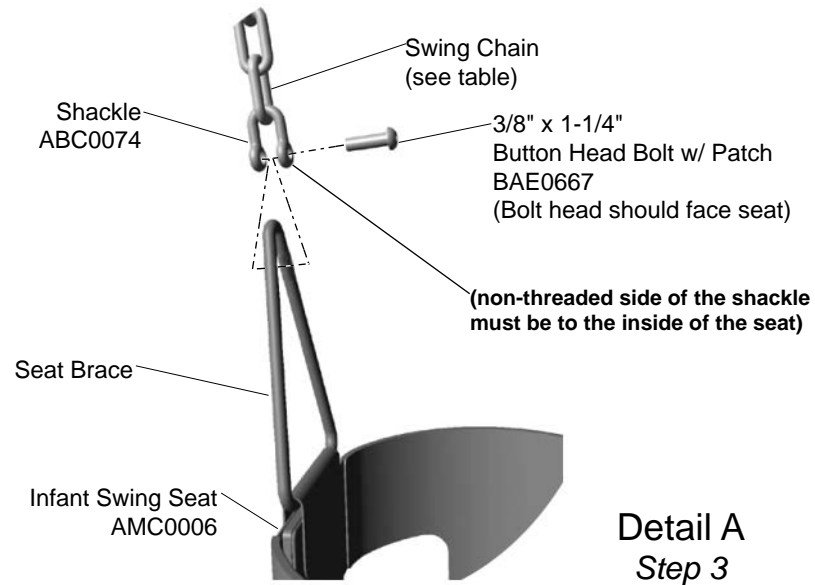
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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intentionally left blank.

Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



**PLAYWORLD
SYSTEMS®**
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For Customer Service, Call
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570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **... for Safety's Sake!**

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

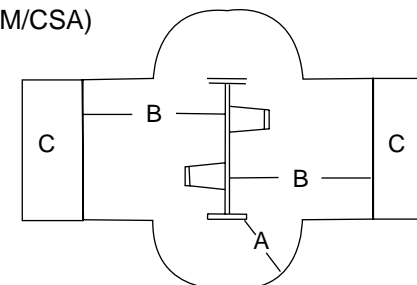
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

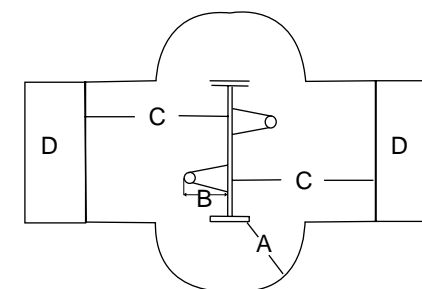
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

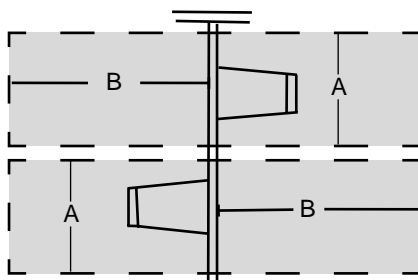
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

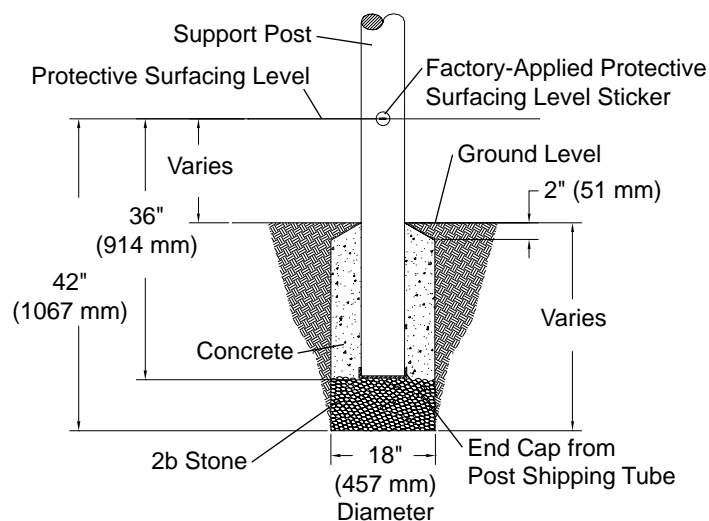
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

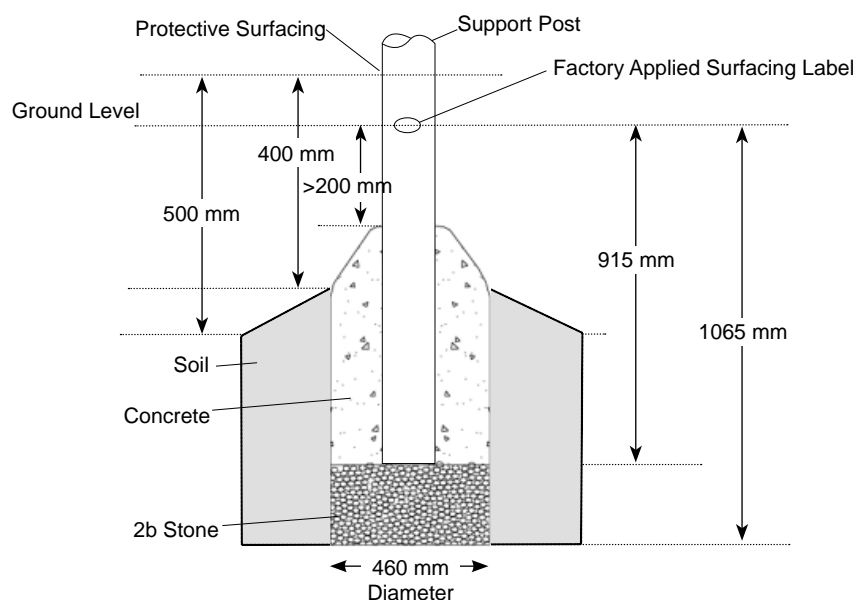
Installation Instructions



Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail Support Post (EN)



Assembly View (representative model)

Installation Instructions




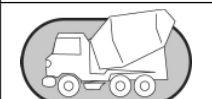



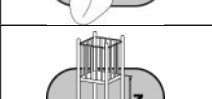
Playworld Systems® Model XX0287
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Weight: *214 lbs. (97,3 kg)
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

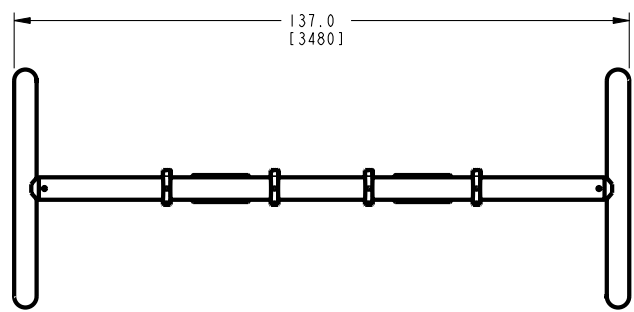
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

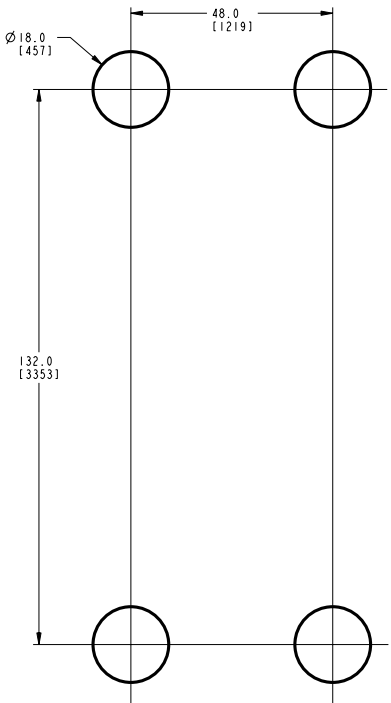
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

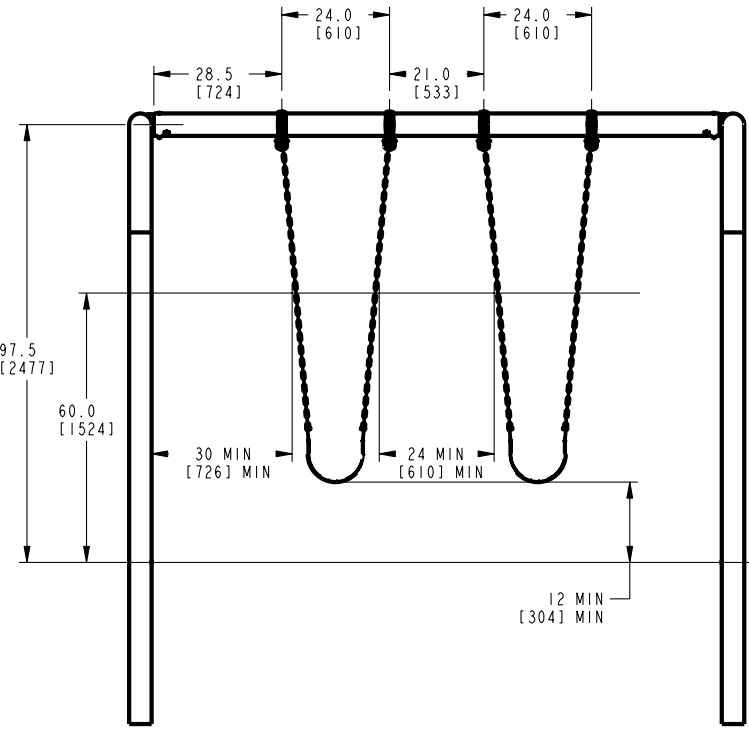
Top View



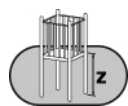
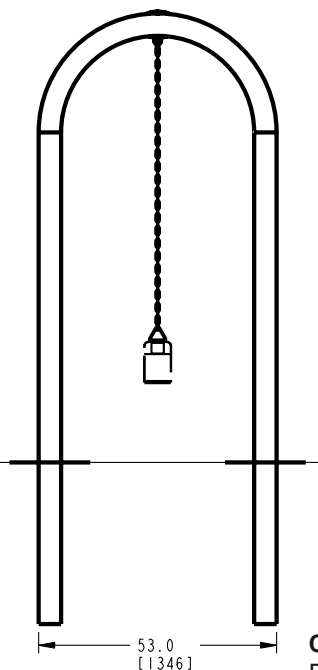
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Footing Diagram



Elevation Views

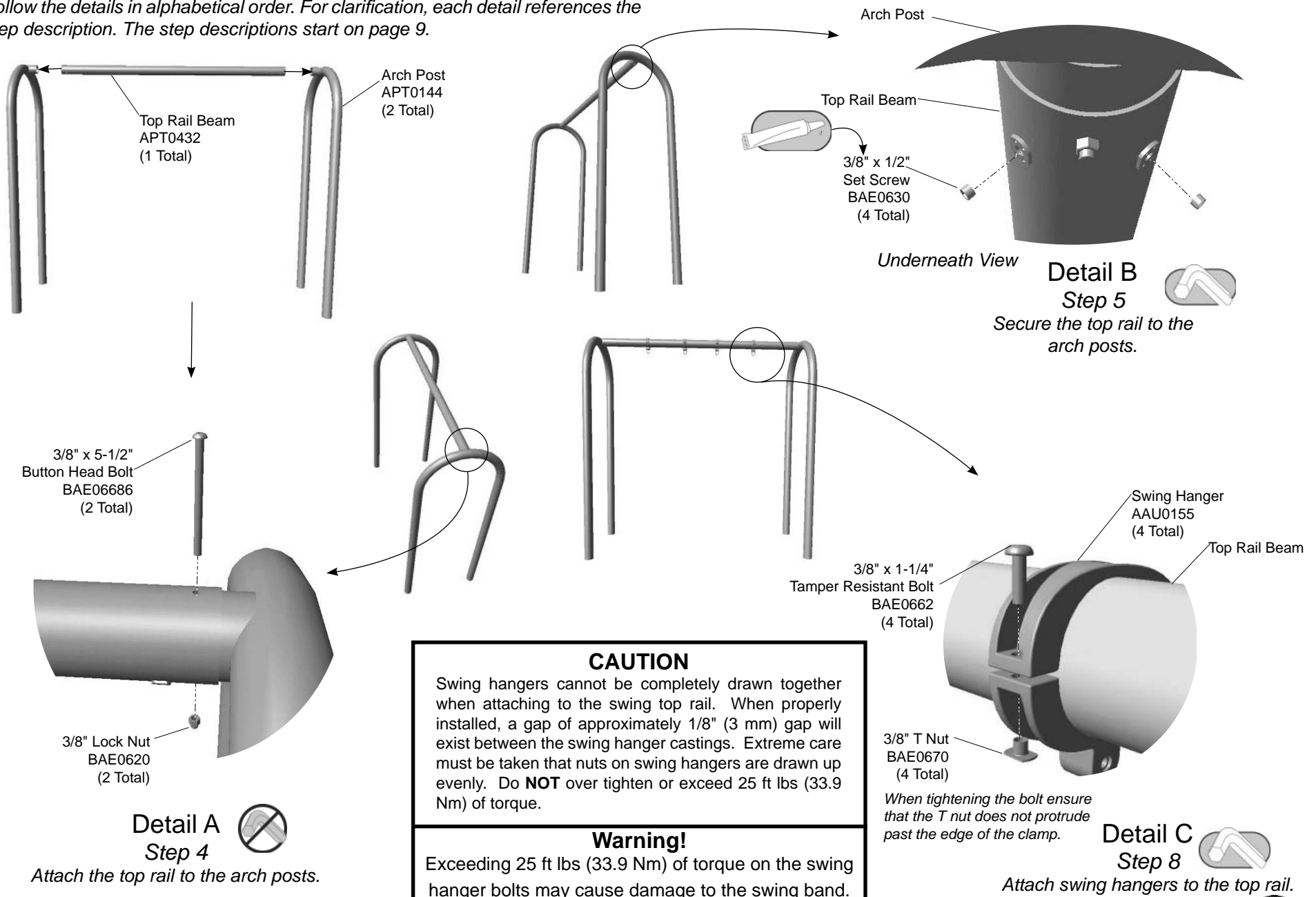


Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

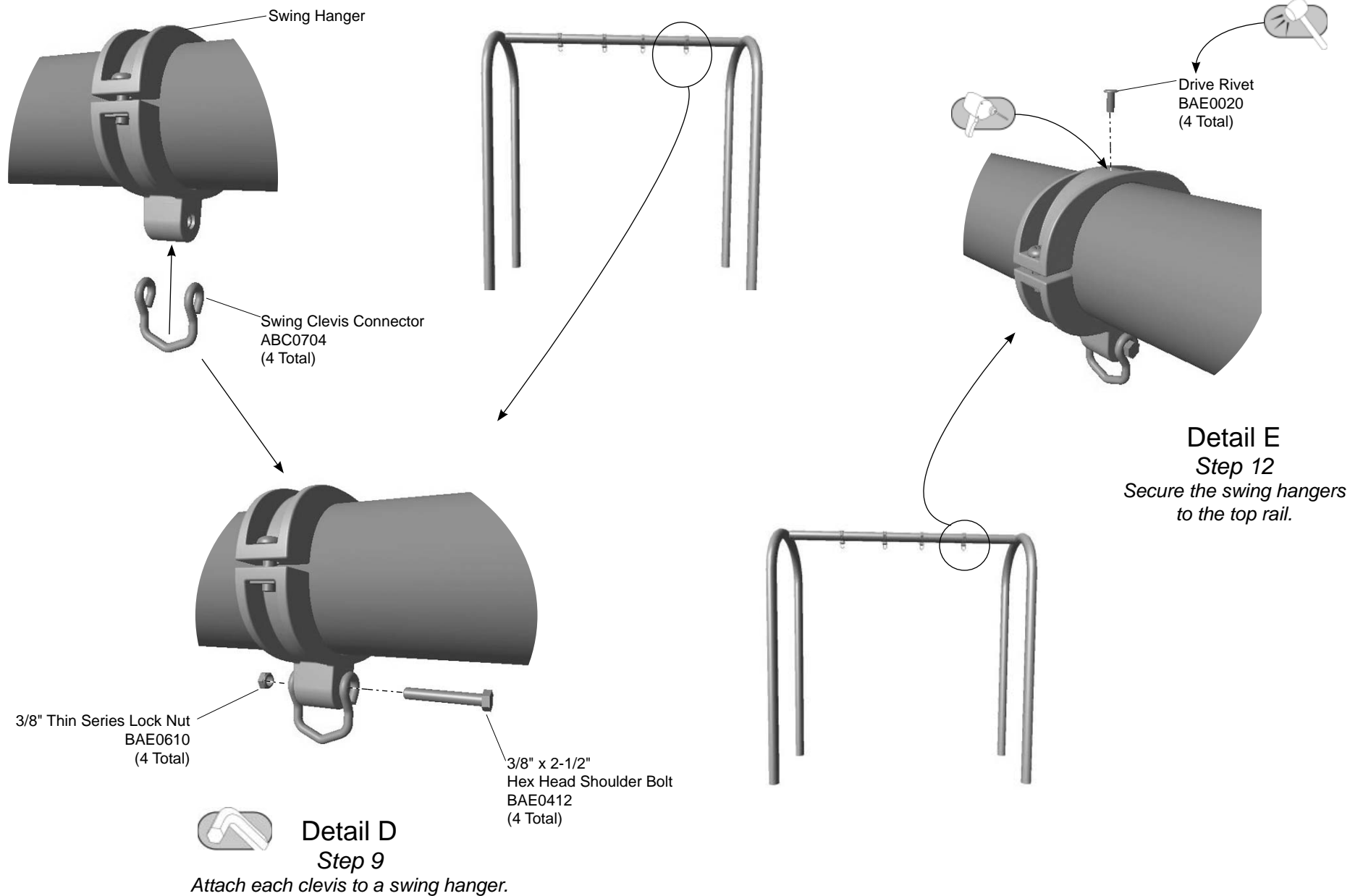


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

**XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING
8 ft. (2438 mm) TOP RAIL**

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1



Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

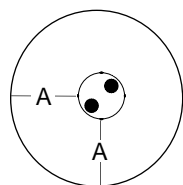
MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____



Assembly View (*representative model*)



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 1500 mm








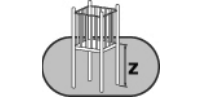
Installation Instructions

Playworld Systems®
Models XX0341 and XX0341S
Balance Trax Pond
In-Ground and Surface Mount

Installation Preparation

Recommended Crew: One (1) adult
Installation Time (in-ground): 0.75 hour
Installation Time (surface mount): 0.25 hour
Concrete Required: 0.03 cubic yard (0,02 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

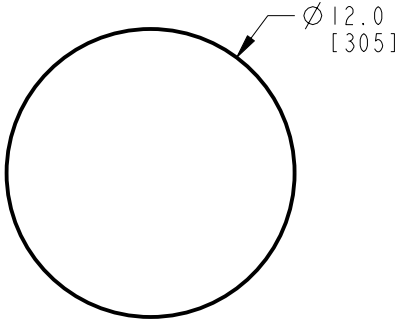
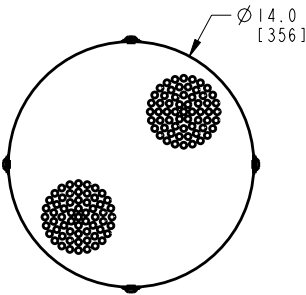
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

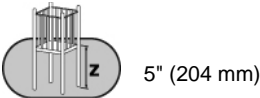
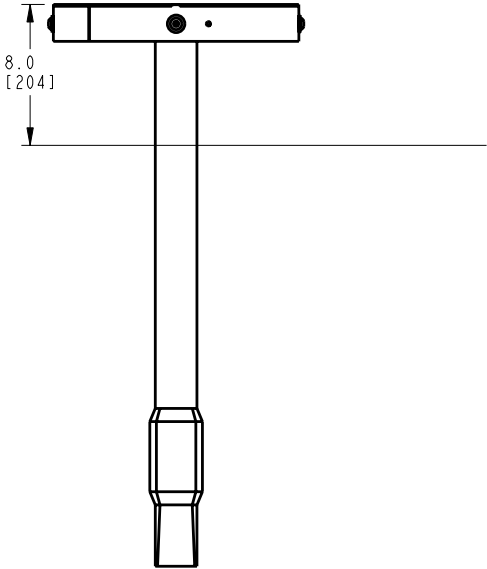
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram

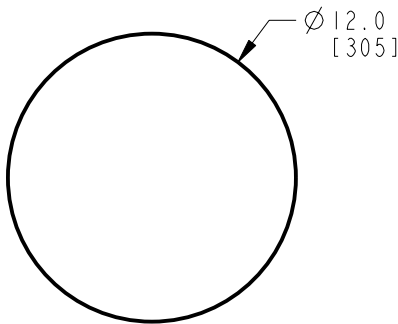


Elevation Views
XX0341

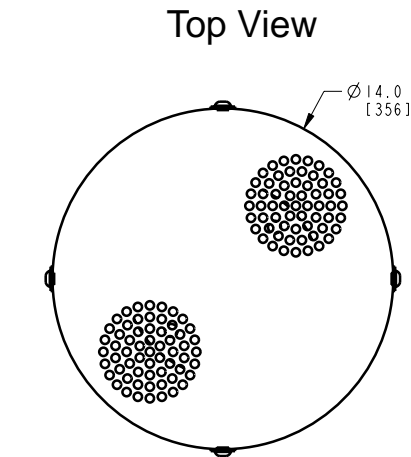


Installation Instructions

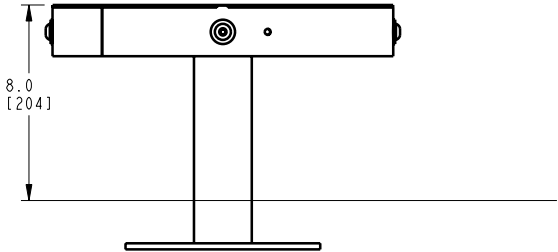
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



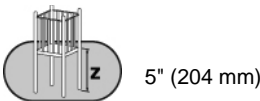
Footing Diagram



Top View

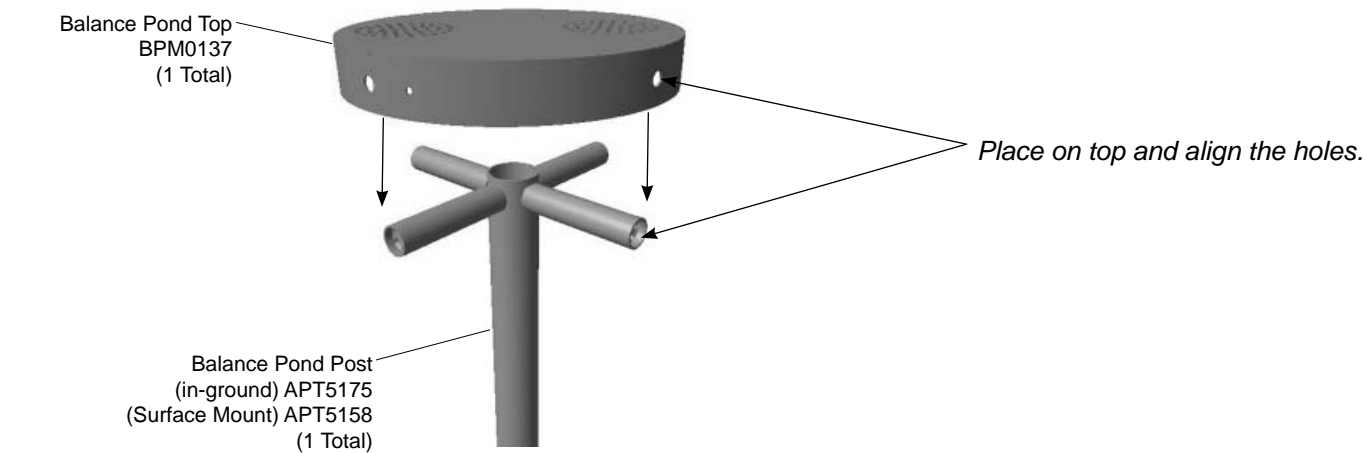



Elevation Views
XX0341S



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A 
Step 4
Attach the Pond top to the post.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the annex at the end of this document. Use the **Component Footing Detail** for the in-ground model.

Step 4: Attach the Pond top to the post. See **Detail A**. Position the Pond top on the post, align the holes, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Final Details.

Step 5: Plumb and level the component in or on its footing.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 6: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component where it can be easily seen.

XX0341 - BALANCE TRAX POND

PART NO.	DESCRIPTION	QTY.
APT5175	POST - BALANCE Pond	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	1
BPM0137	FRAME - BALANCE Pond TOP	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

XX0341S - BALANCE TRAX POND SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
APT5158	POST - BALANCE Pond	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	1
BPM0137	FRAME - BALANCE Pond TOP	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1


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570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com



Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.
To repair the Pond top coating, contact the Playworld Systems' Customer Service Department for a coating repair touch-up kit.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0341 and XX0341S Balance Trax Pond In-Ground and Surface Mount



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ***... for Safety's Sake!***

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

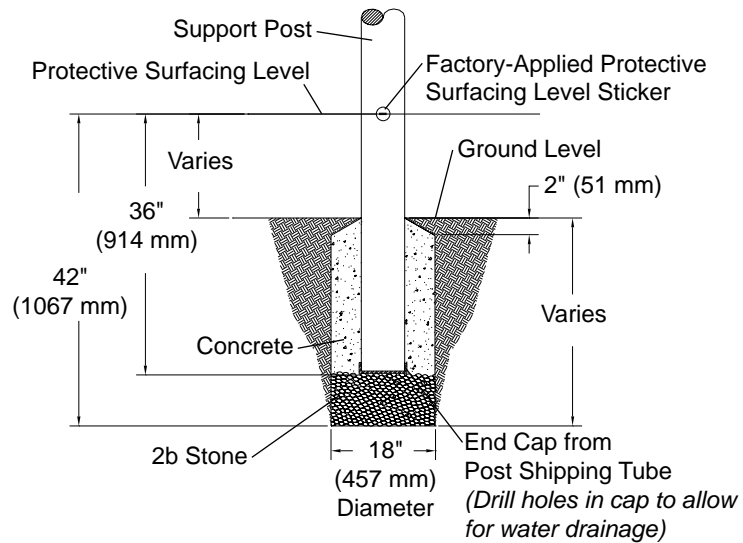
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

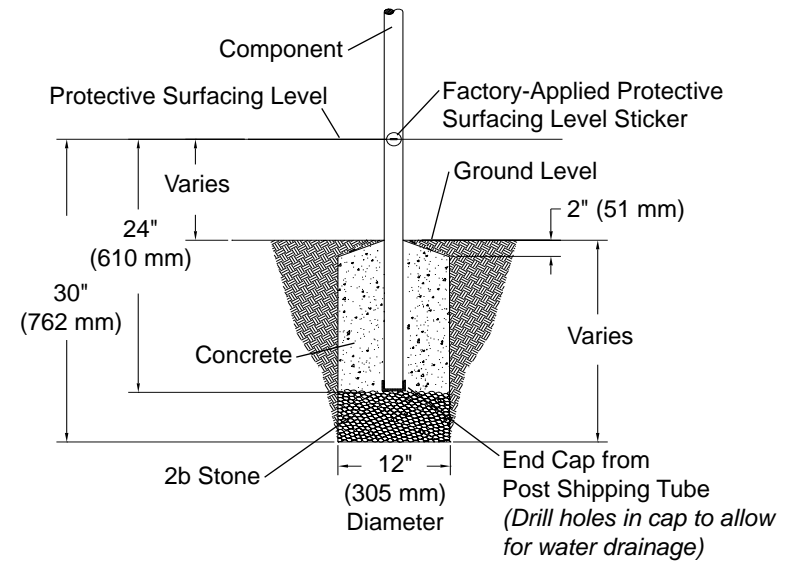
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

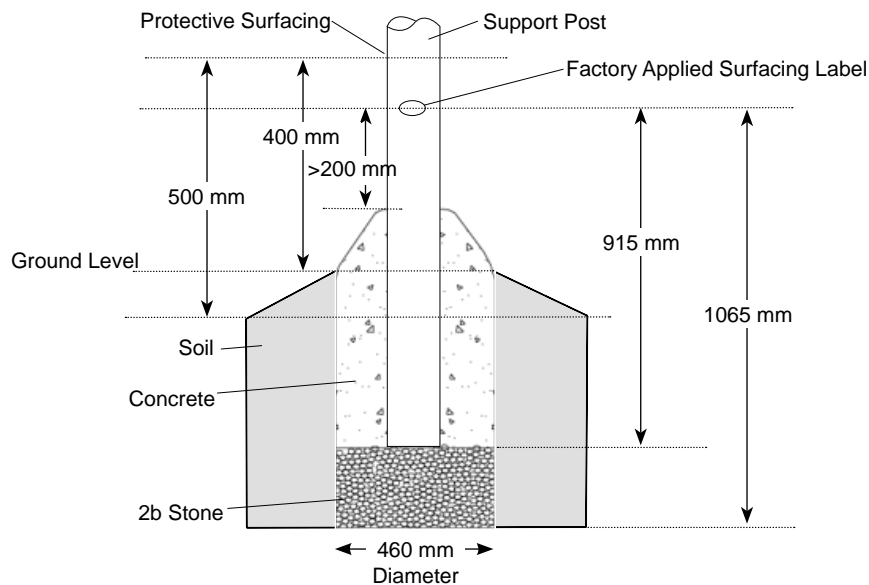
Footings Details (in ground)



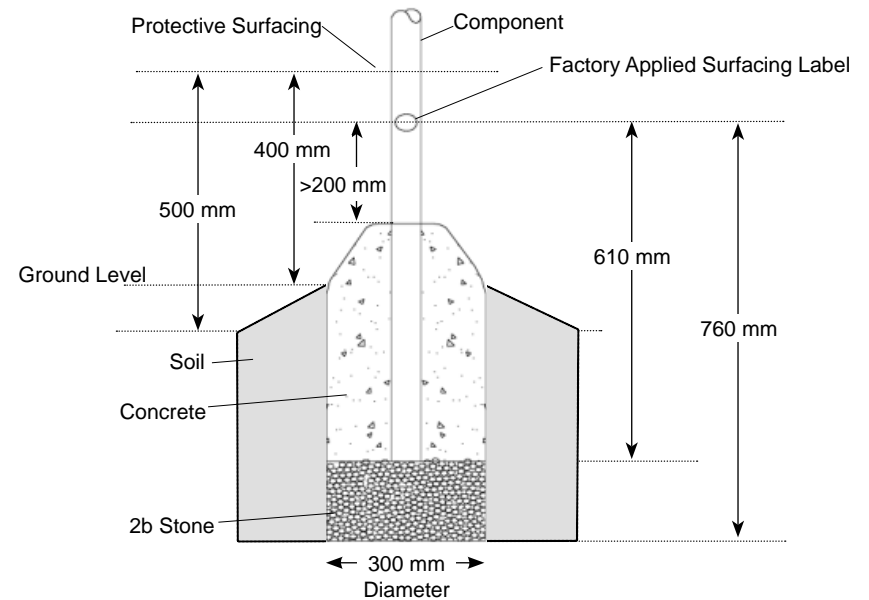
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)

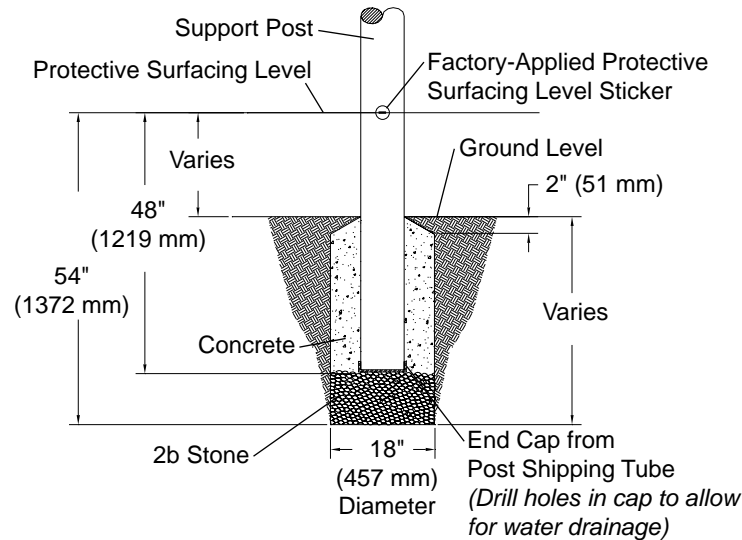


Footing Detail - Support Post (EN)

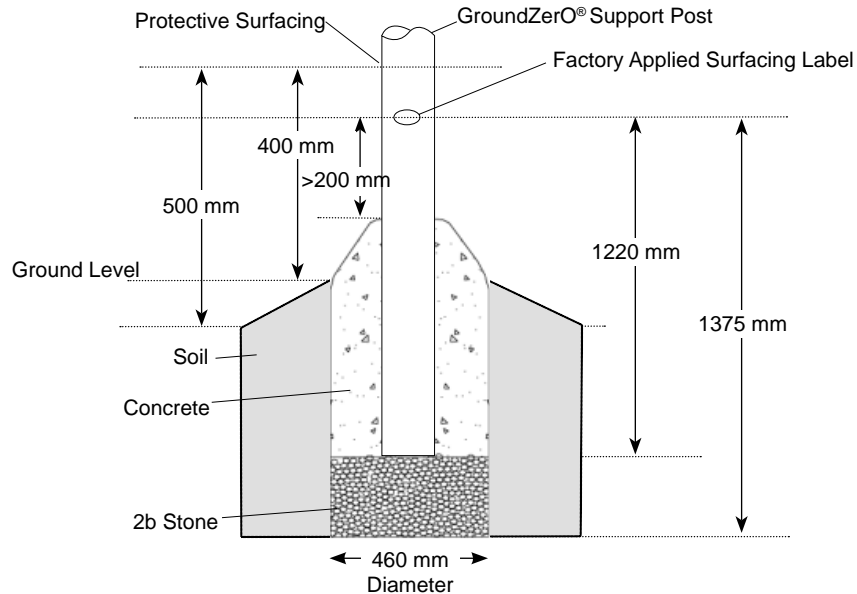


Footing Detail - Component Post (EN)

Footings Notes & Details (in ground)



GroundZero® Support Post Footing Detail ASTM/CSA

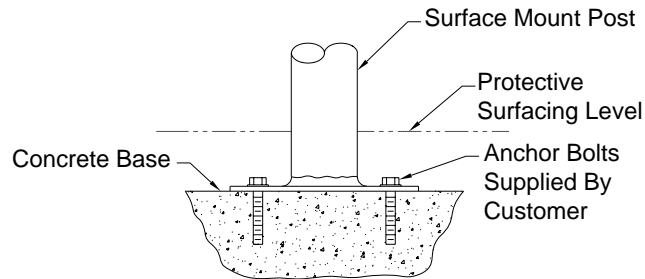


Footing Detail - GroundZero® Support Post (EN)

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- All support posts and component support legs shall have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

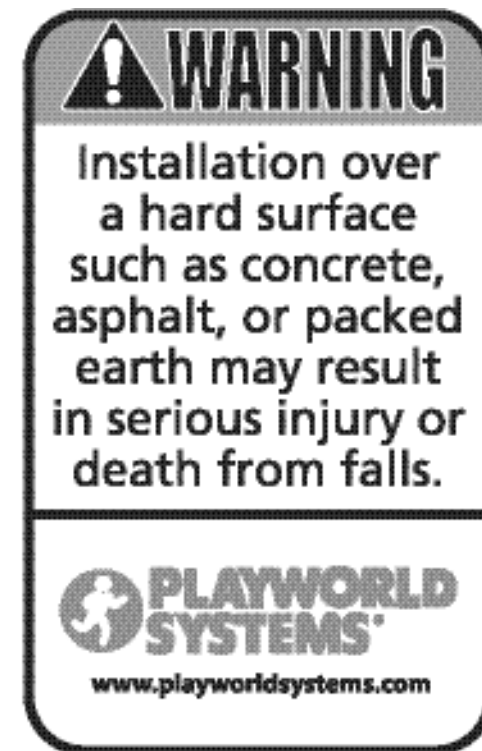
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

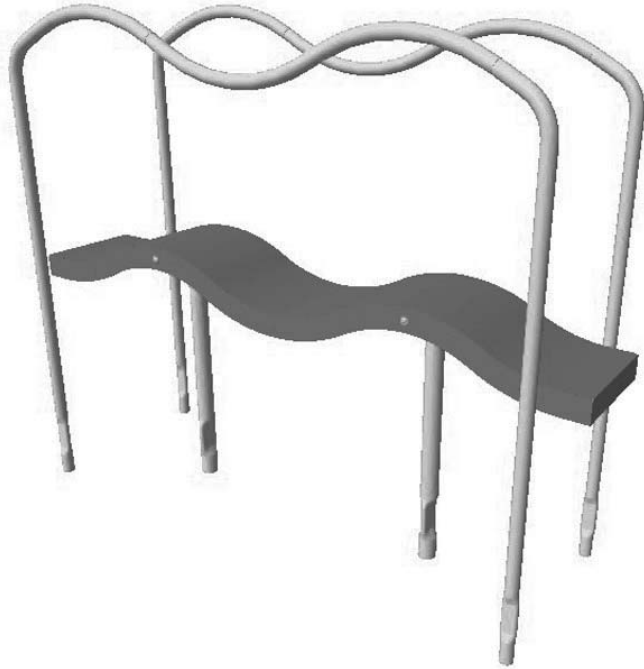
FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - ☐ Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - ☐ Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - ☐ Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - ☐ Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - ☐ Clean dried concrete off of components and any other affected surface.
 - ☐ Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - ☐ Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - ☐ Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

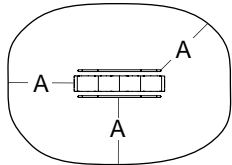
- ☐ Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- ☐ Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



Assembly View (representative model)



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 1500 mm




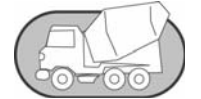



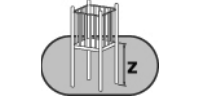
Installation Instructions

Playworld Systems®
Models XX0343 and XX0343S
Balance Trax Double Dip
In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (in-ground): 3.5 man-hours
Installation Time (surface mount): 0.5 hour
Concrete Required: 0.18 cubic yard (0,12 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

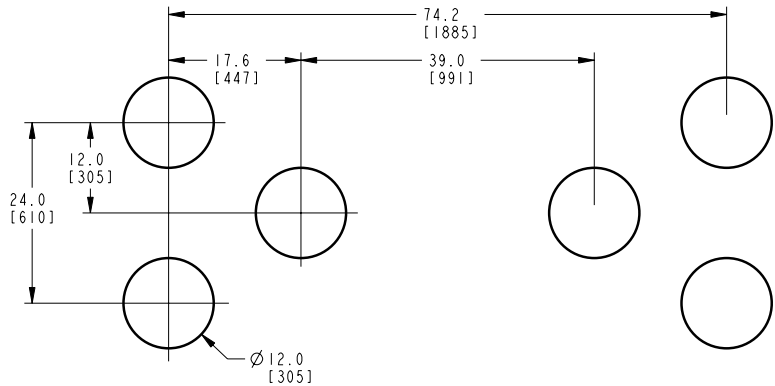
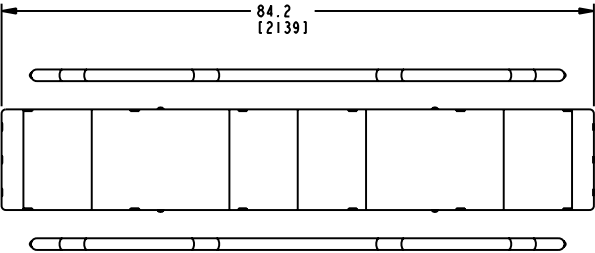
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

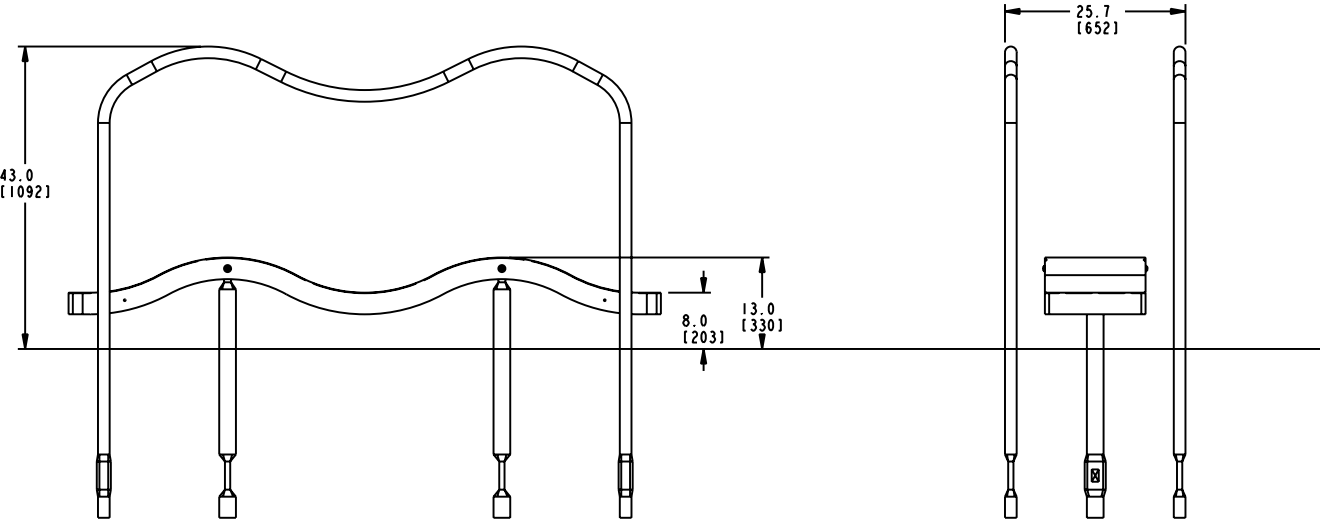
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

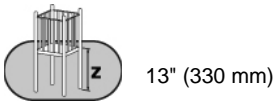
Top View



Footing Diagram



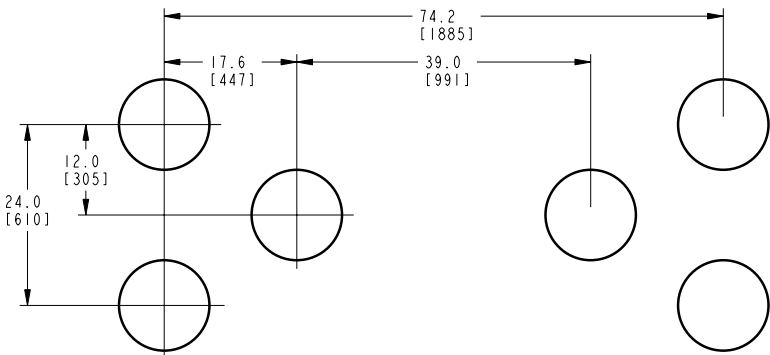
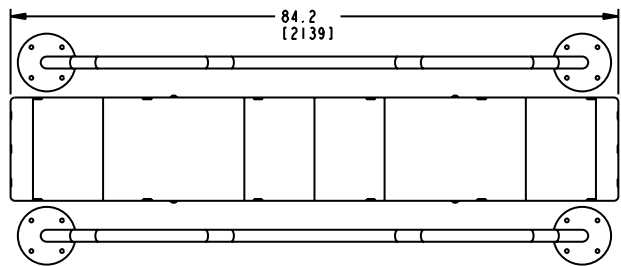
Elevation Views
XX0343



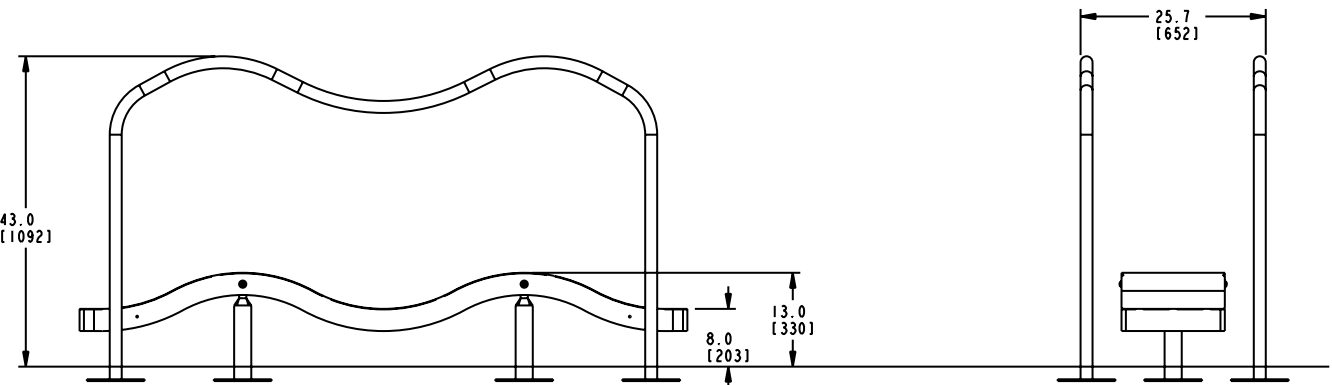
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

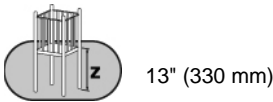
Top View



Footing Diagram

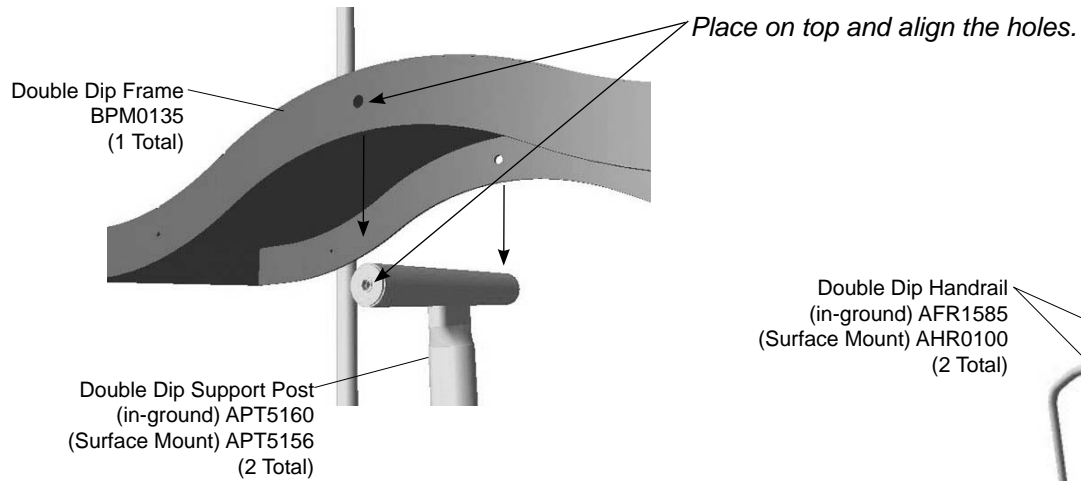


Elevation Views
XX0343S

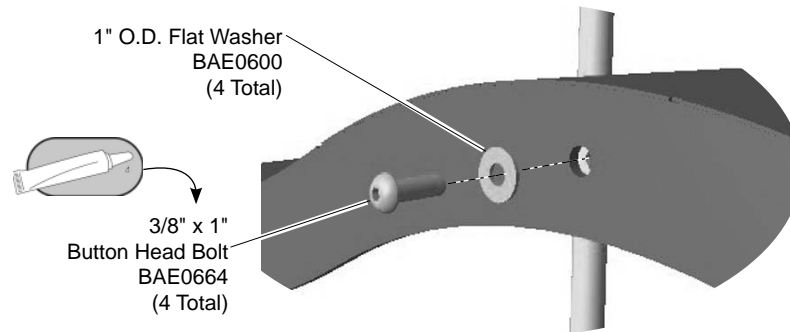


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

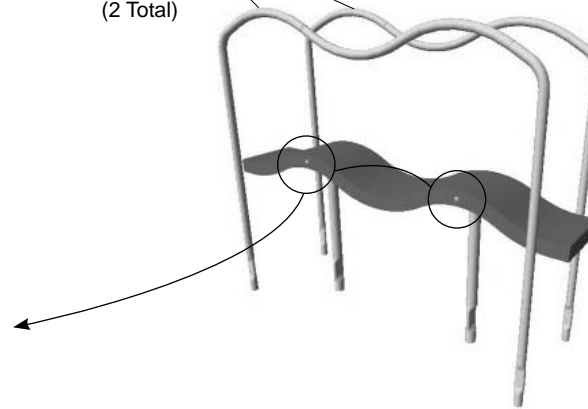


Double Dip Handrail
(in-ground) AFR1585
(Surface Mount) AHR0100
(2 Total)



Detail A
Step 4

Attach the Double Dip frame to the support posts.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the annex at the end of this document. Use the **Component Footing Detail** for the in-ground model.

Step 4: Attach the Double Dip frame to the support posts. See **Detail A**. Position the Double Dip frame on the posts, align the holes, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Final Details.

Step 5: Place the Double Dip frame and handrails in, or on, their footings. Plumb and level the components.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 6: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component where it can be easily seen.

XX0343 - BALANCE TRAX DOUBLE DIP

PART NO.	DESCRIPTION	QTY.
AFR1585	FAB METAL - 1.66" O.D. x 67.00" x 77.19"	2
APT5160	FRAME - 13.47" x 36.38" x 2.38"	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	1
BPM0135	DOUBLE DIP	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

XX0343S - BALANCE TRAX DOUBLE DIP SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AHR0100	HANDRAIL - DOUBLE DIP	2
APT5156	FRAME - 13.47" x 14.38" x 8.00"	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	1
BPM0135	DOUBLE DIP	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1


**PLAYWORLD
SYSTEMS®**
 The world needs play.®
 For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.
To repair the pod top coating, contact the Playworld Systems' Customer Service Department for a coating repair touch-up kit.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

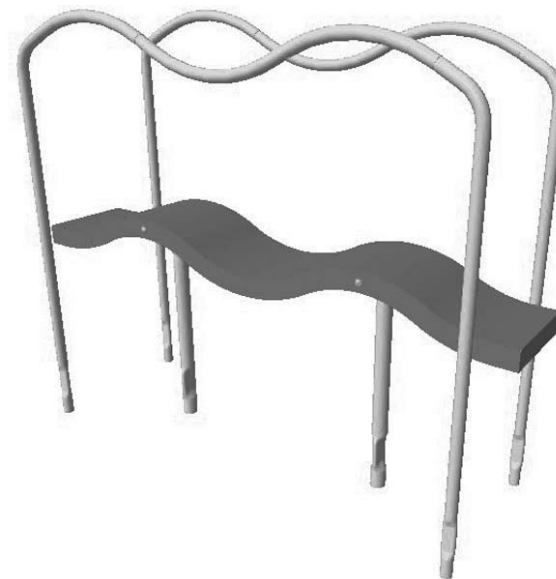
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®
Models XX0343 and XX0343S
Balance Trax Double Dip
In-Ground and Surface Mount



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ***... for Safety's Sake!***

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

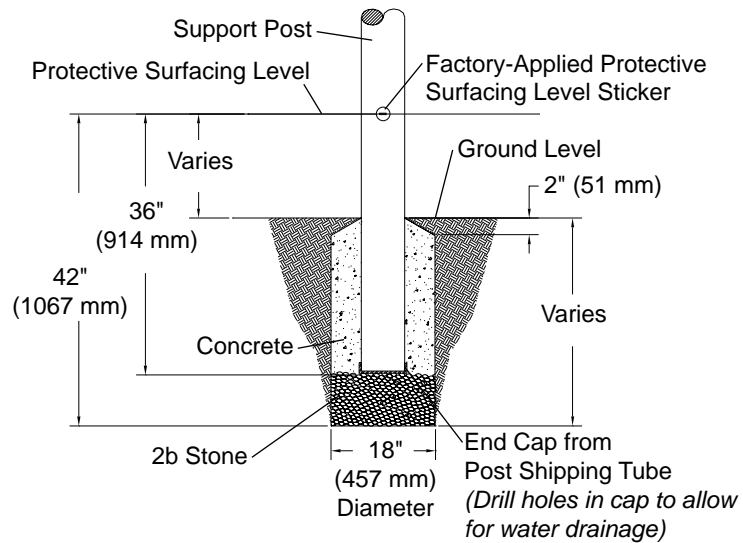
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

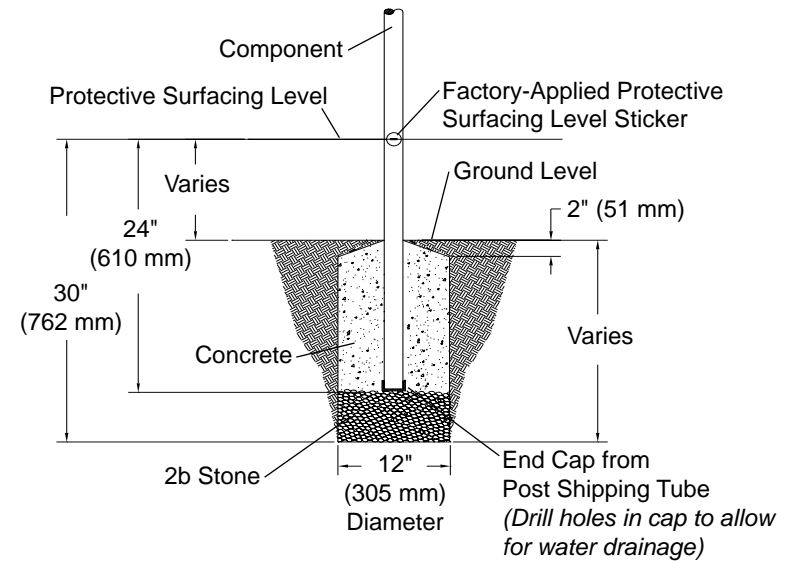
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

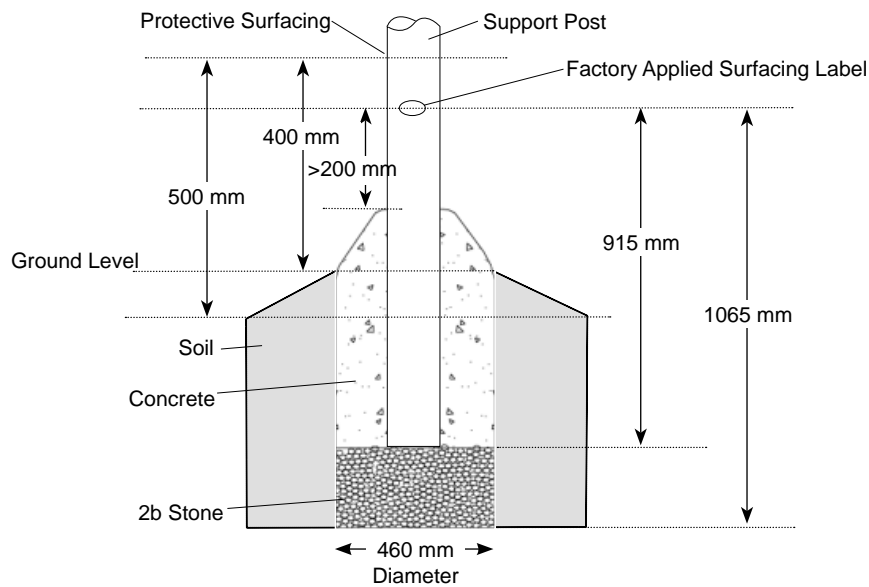
Footings Details (in ground)



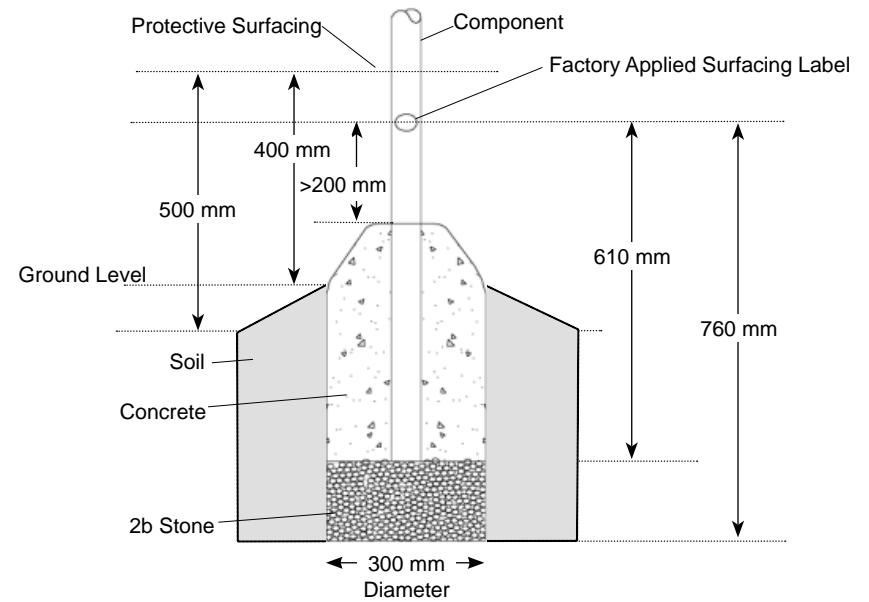
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)

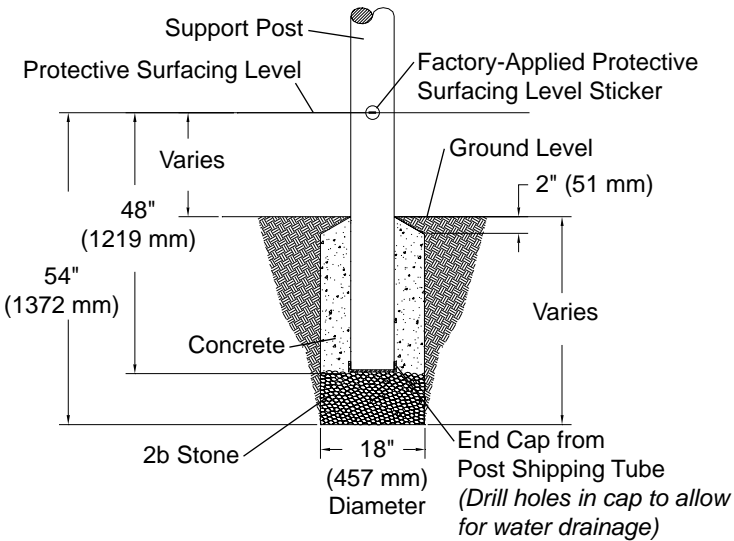


Footing Detail - Support Post (EN)



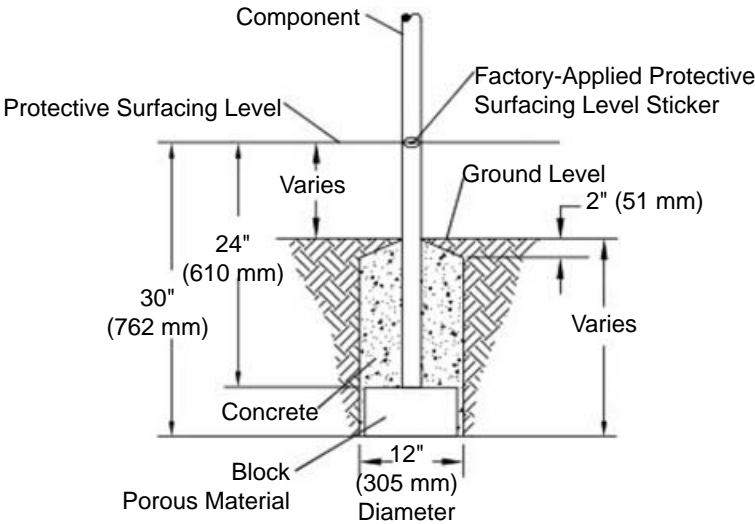
Footing Detail - Component Post (EN)

Footings Notes (in ground)

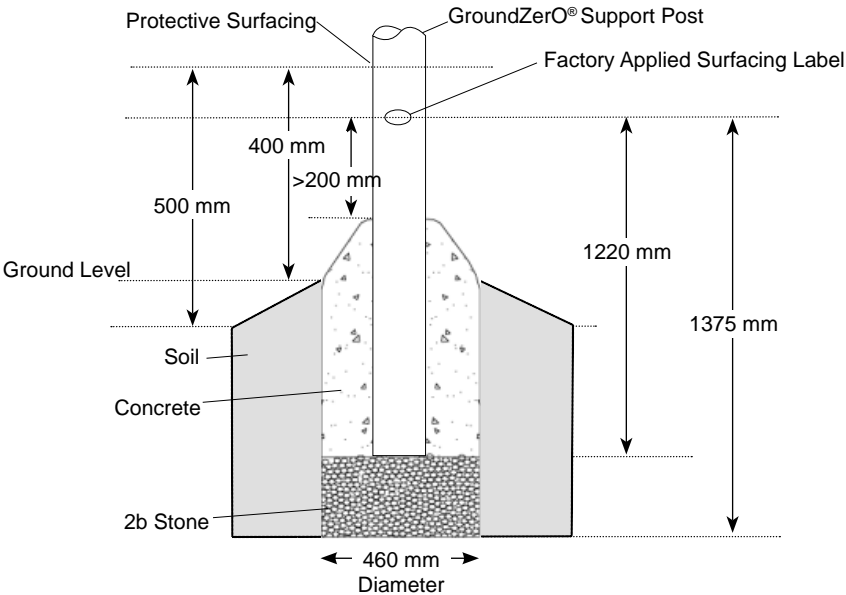


GroundZero® Support Post Footing Detail ASTM/CSA

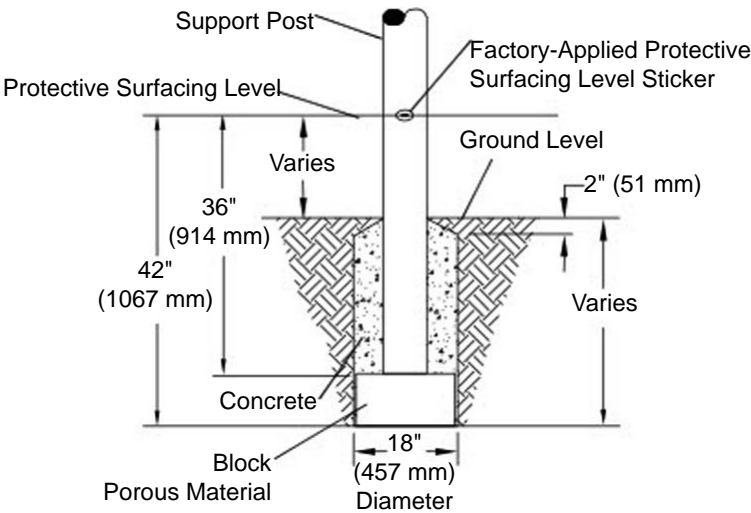
IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



Component Footing Detail (ASTM/CSA)
Block Option



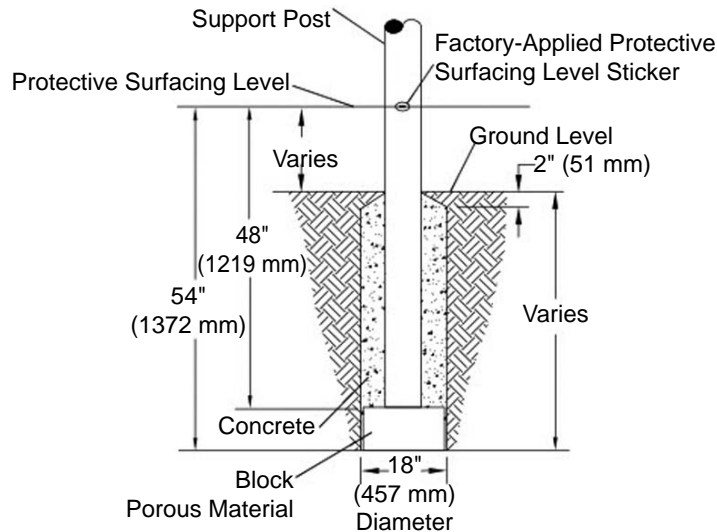
Footing Detail - GroundZero® Support Post (EN)



Support Post Footing Detail (ASTM/CSA)
Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

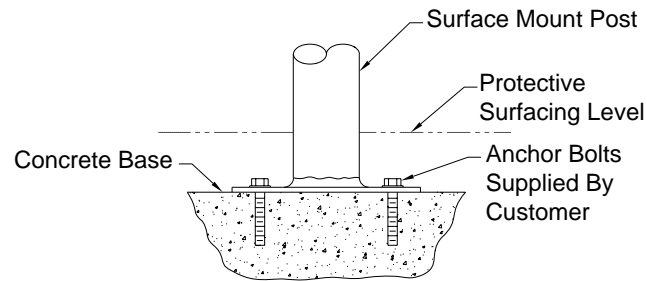


GroundZero® Support Post Footing Detail ASTM/CSA
Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

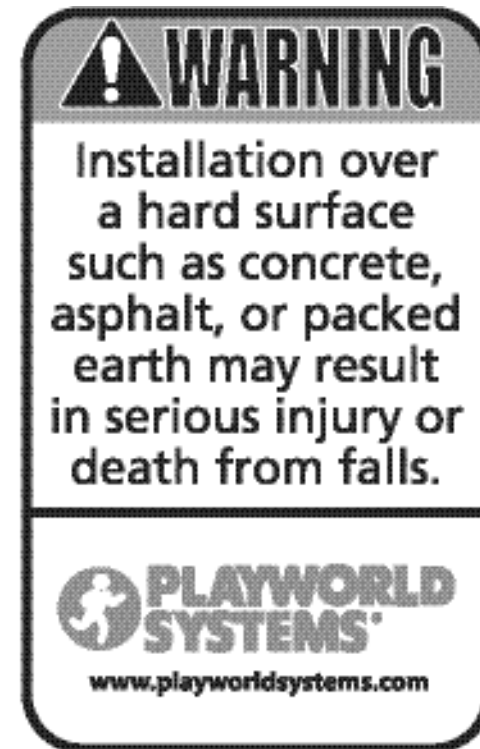
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

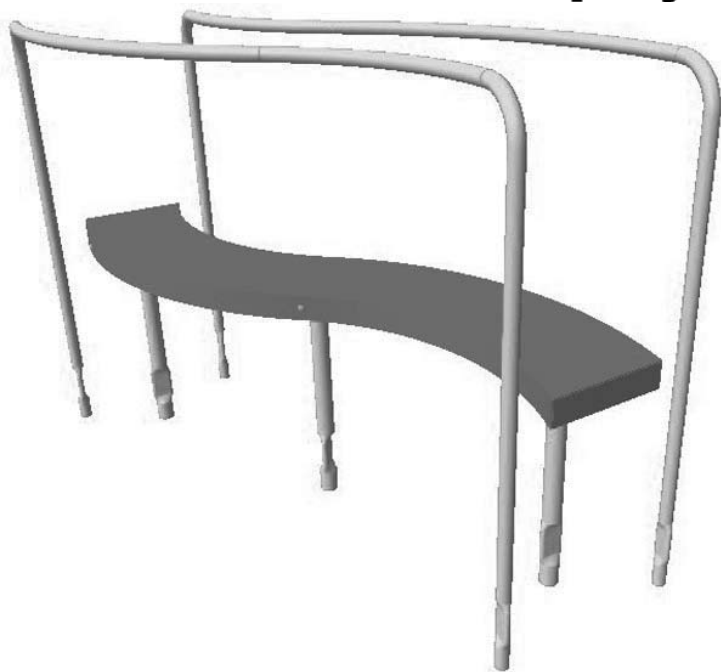
FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

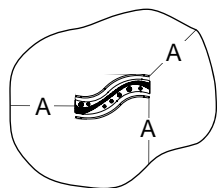
- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



Assembly View (representative model)



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 1500 mm




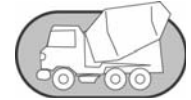
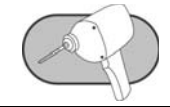


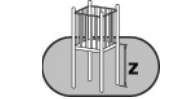
Installation Instructions

Playworld Systems®
Models XX0344 and XX0344S
Balance Trax Snake
In-Ground and Surface Mount

Installation Preparation

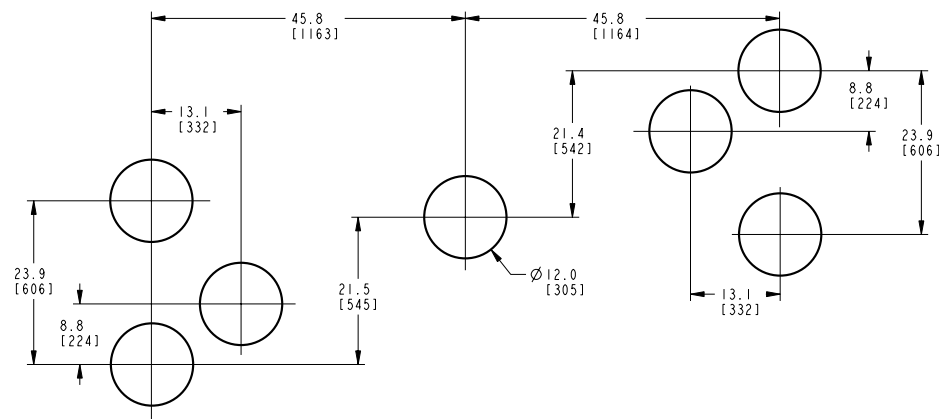
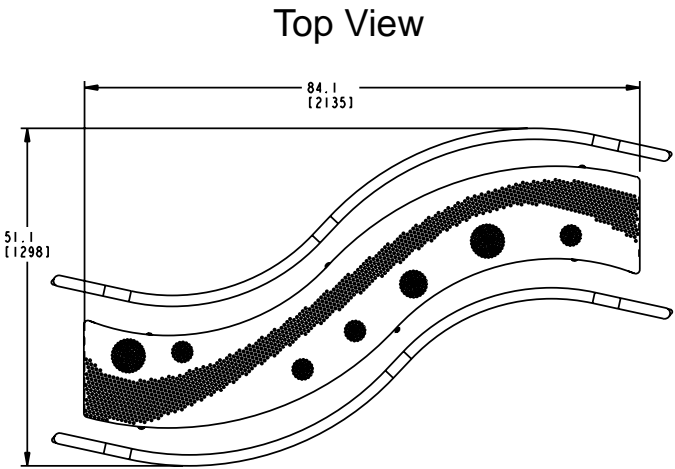
Recommended Crew: Two (2) adults
Installation Time (in-ground): 4 man-hours
Installation Time (surface mount): 0.5 hour
Concrete Required: 0.21 cubic yard (0,14 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

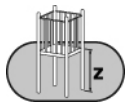
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

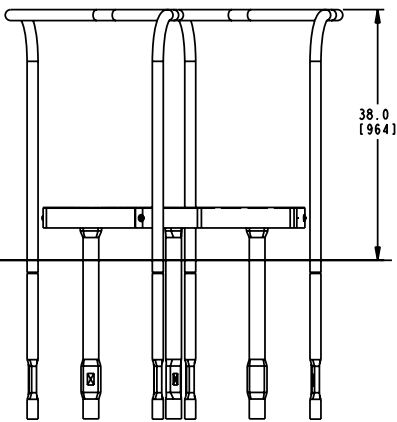
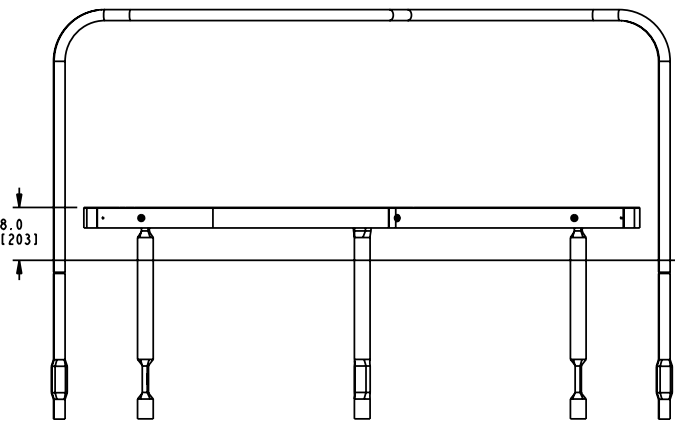
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footings Diagram



8" (203 mm)

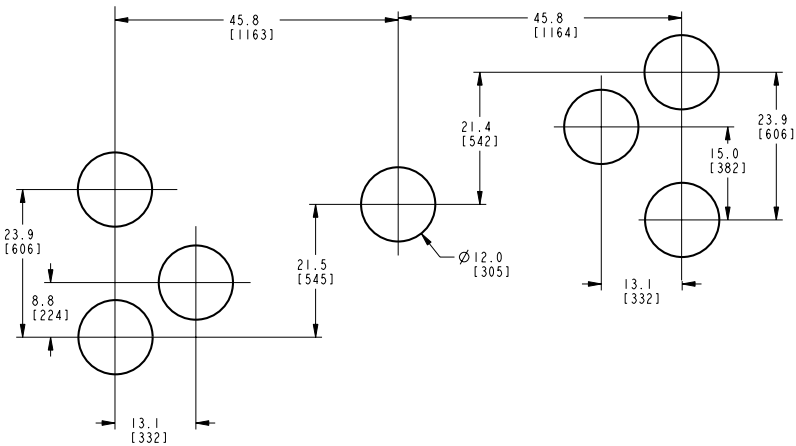
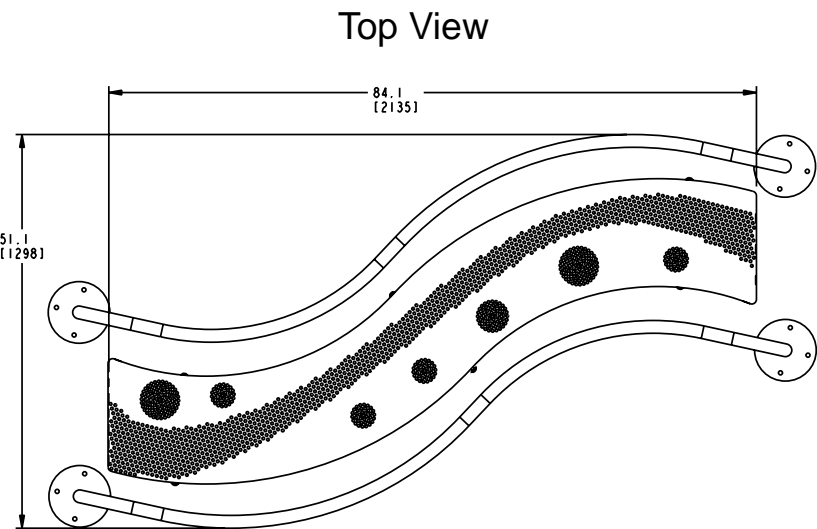


Elevation Views
XX0344

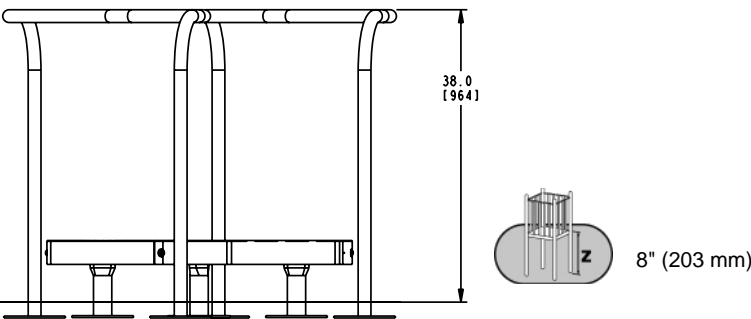
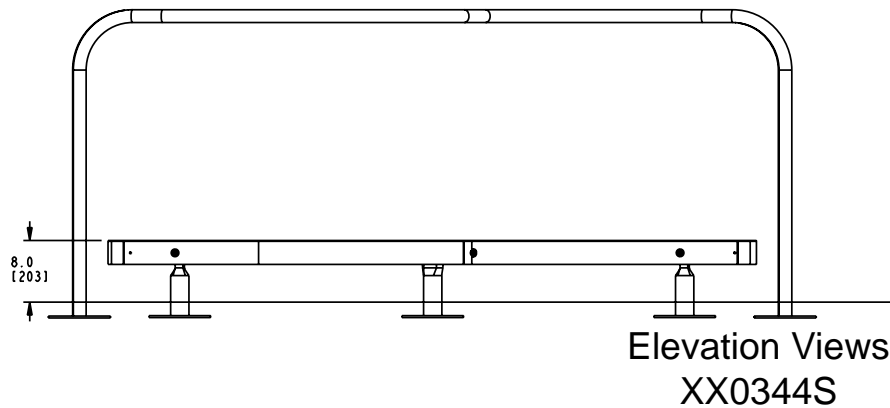
Installation Instructions

KEY

Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

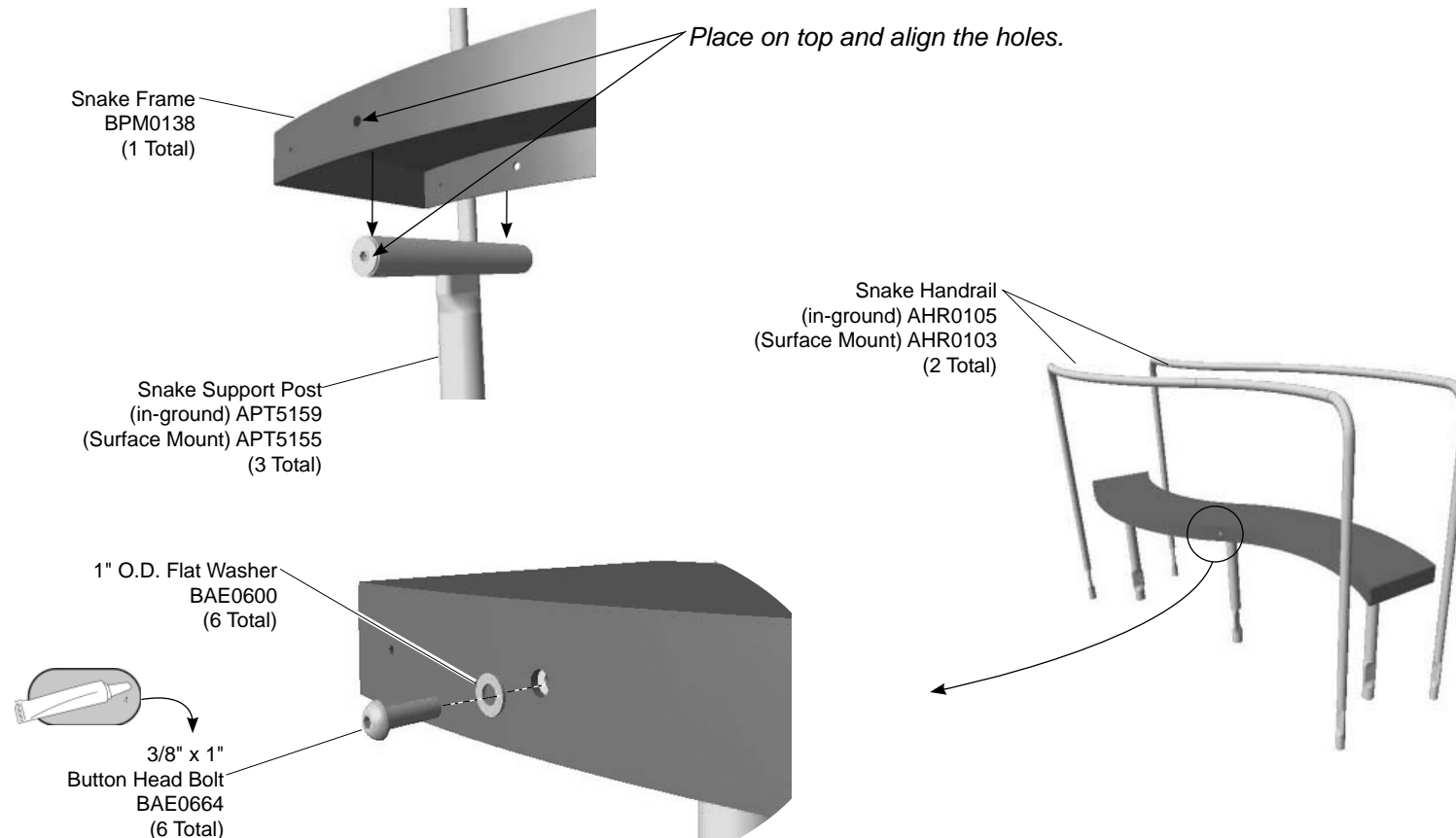


Footing Diagram



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 4



Attach the Snake frame to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the annex at the end of this document. Use the **Component Footing Detail** for the in-ground model.

Step 4: Attach the Snake frame to the support posts. See **Detail A**. Position the Snake frame on the posts, align the holes, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Final Details.

Step 5: Place the Snake frame and handrails in, or on, their footings. Plumb and level the components.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 6: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component where it can be easily seen.

XX0344 - BALANCE TRAX SNAKE

PART NO.	DESCRIPTION	QTY.
AHR0105	HANDRAIL - SNAKE	2
APT5159	FRAME - 13.47" x 31.35" x 2.38"	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0922	TOOL - TT 45 L WRENCH	1
BPM0138	FRAME - SNAKE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

XX0344S - BALANCE TRAX SNAKE SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AHR0103	HANDRAIL - SNAKE	2
APT5155	FRAME - 13.47" x 9.35" x 8.00"	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0922	TOOL - TT 45 L WRENCH	1
BPM0138	FRAME - SNAKE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1


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800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.
To repair the pod top coating, contact the Playworld Systems' Customer Service Department for a coating repair touch-up kit.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

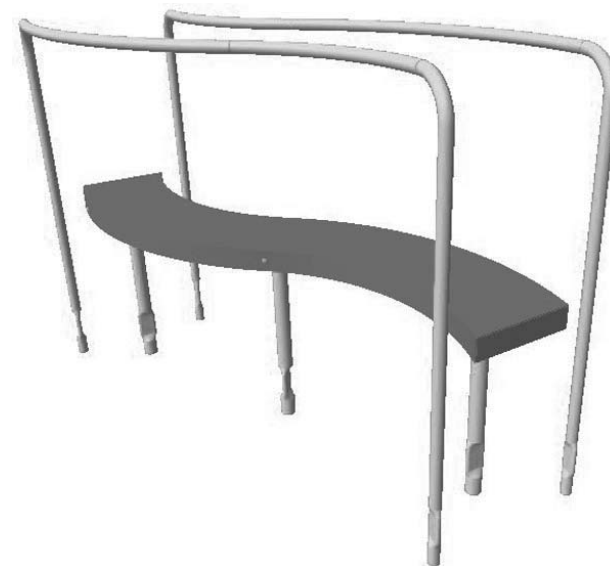
Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0344 and XX0344S Balance Trax Snake In-Ground and Surface Mount



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ***... for Safety's Sake!***

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

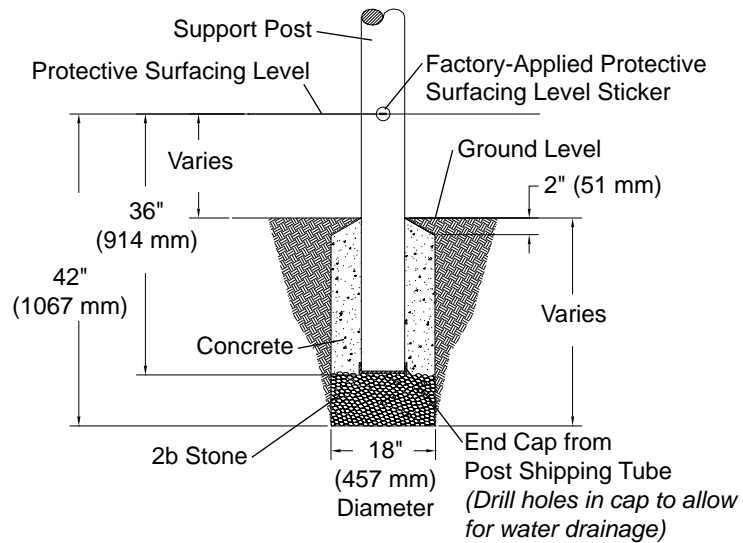
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

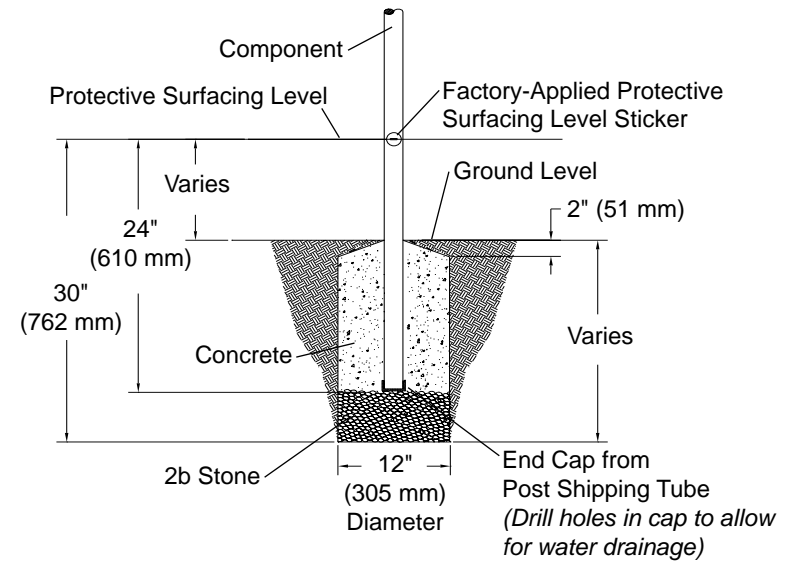
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

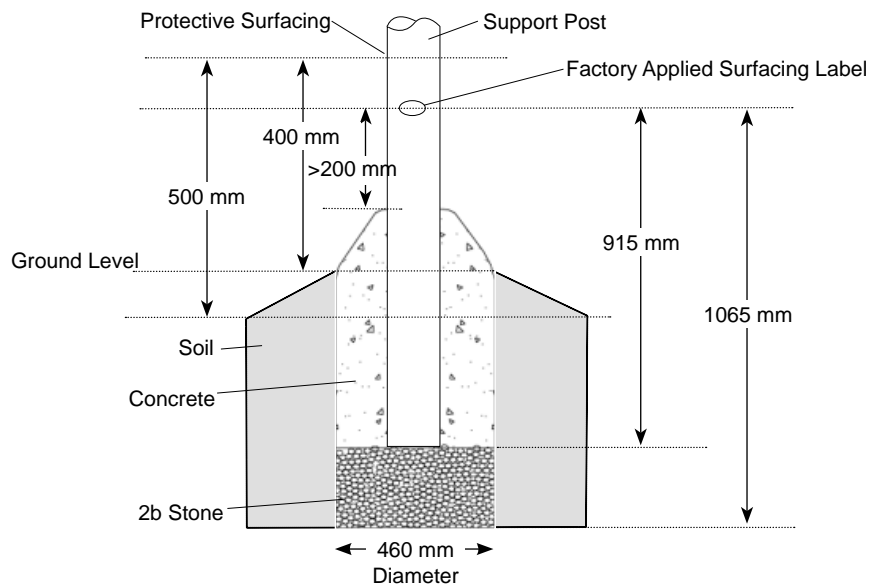
Footings Details (in ground)



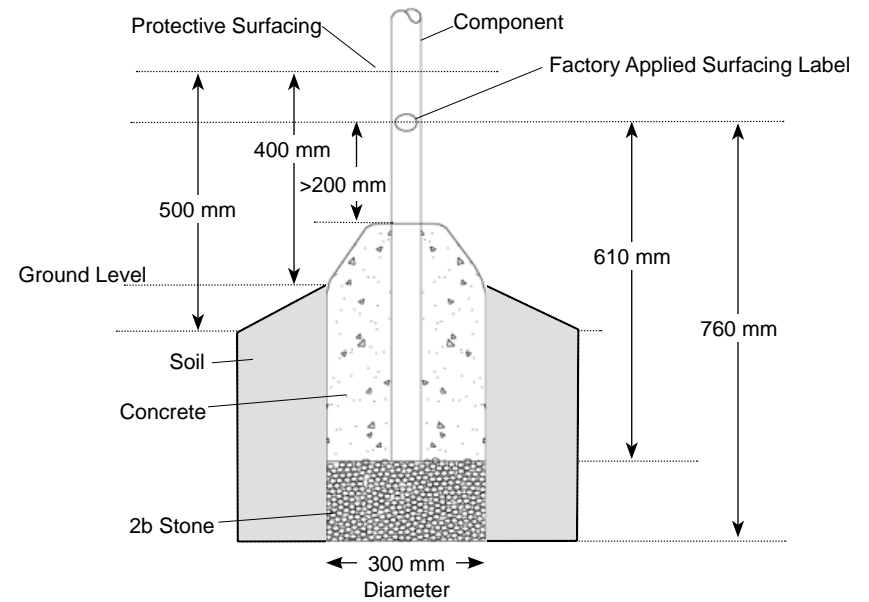
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)

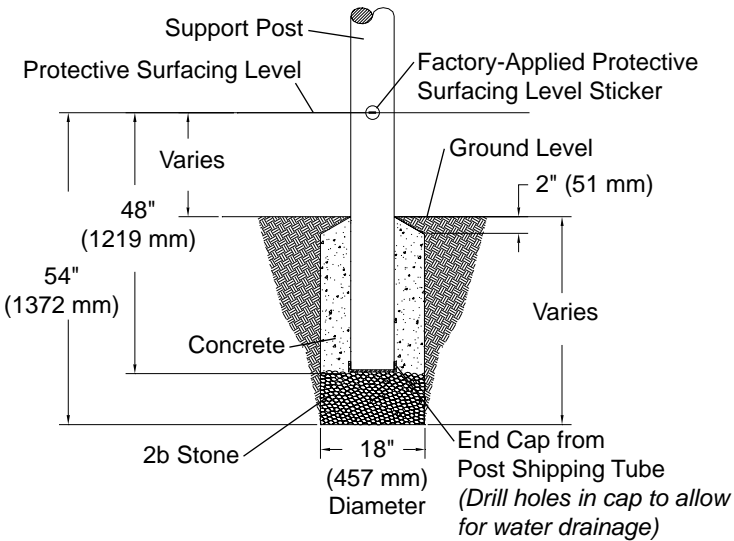


Footing Detail - Support Post (EN)

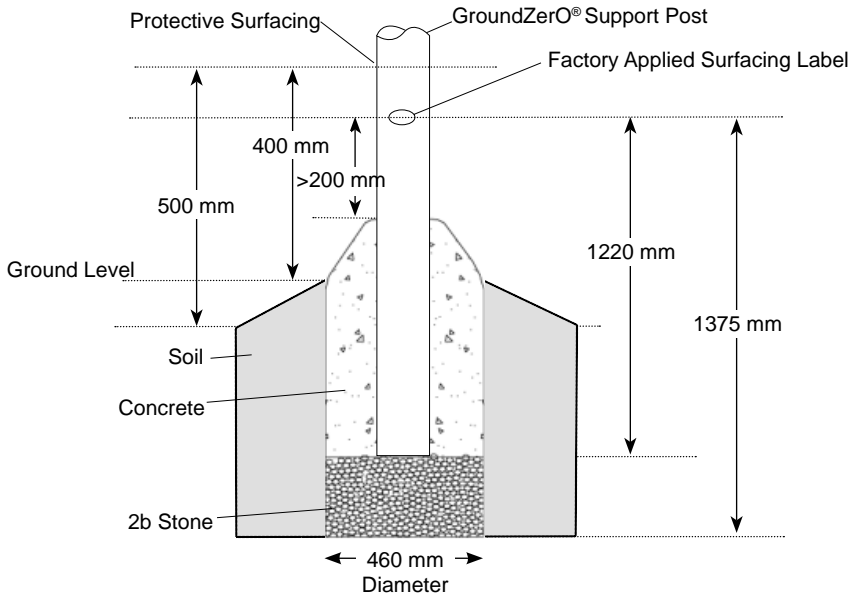


Footing Detail - Component Post (EN)

Footings Notes (in ground)

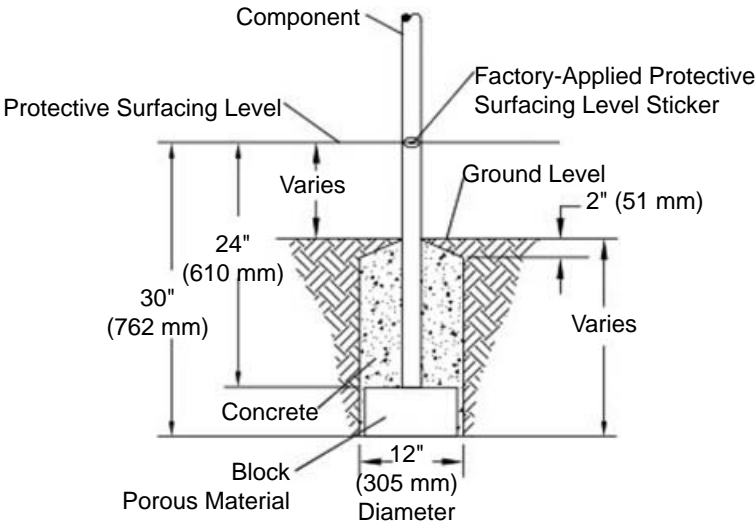


GroundZero® Support Post Footing Detail ASTM/CSA

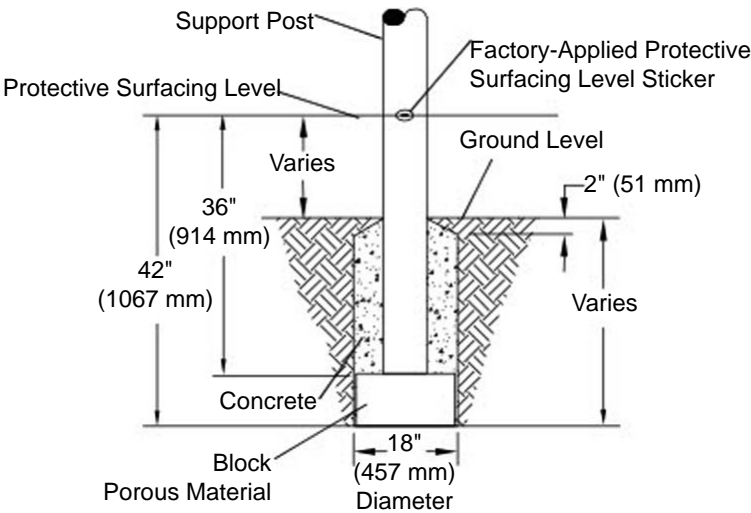


Footing Detail - GroundZero® Support Post (EN)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



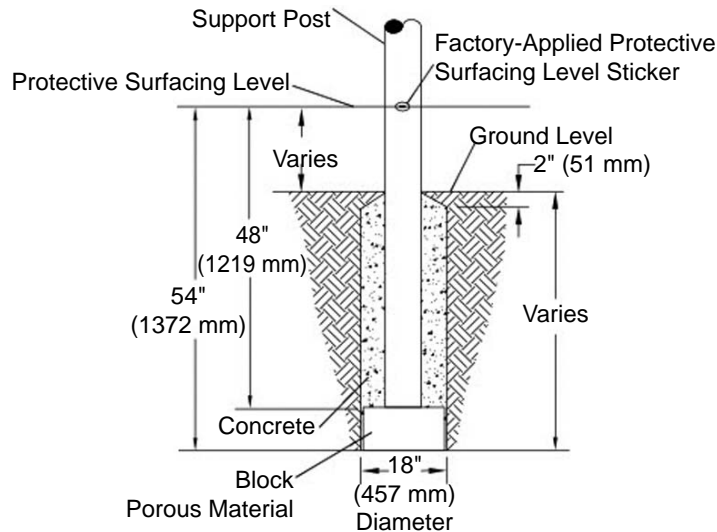
Component Footing Detail (ASTM/CSA)
Block Option



Support Post Footing Detail (ASTM/CSA)
Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

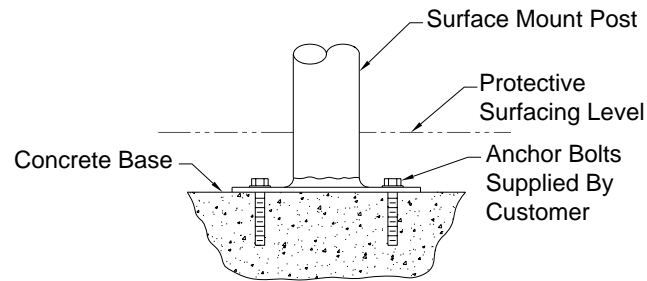


GroundZero® Support Post Footing Detail ASTM/CSA
Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

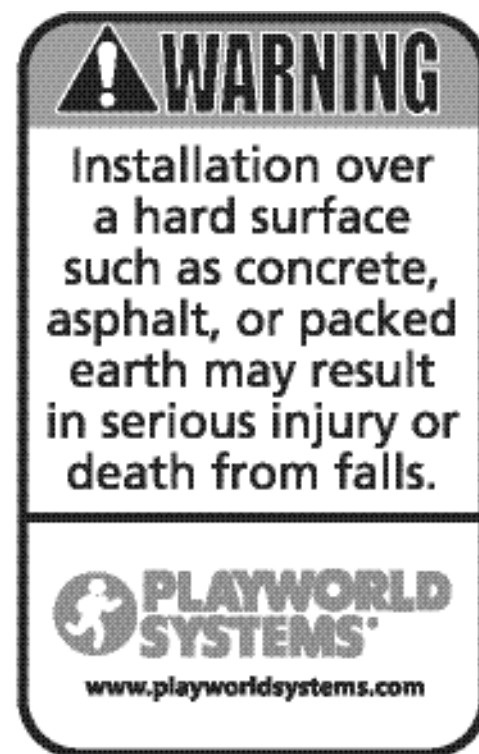
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

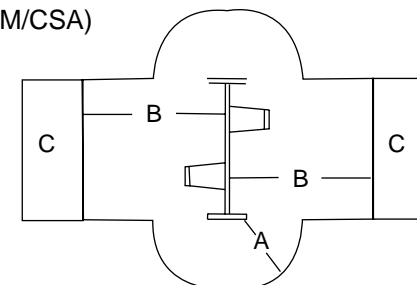
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

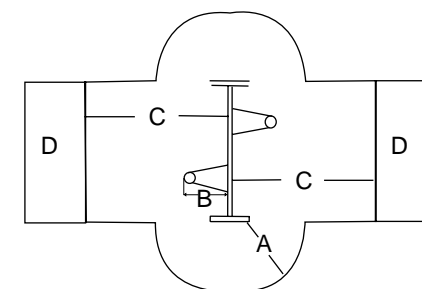
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

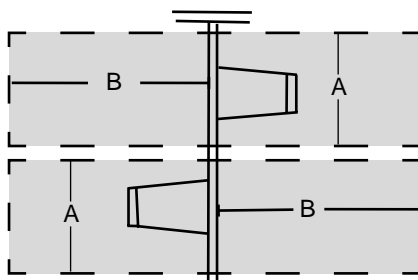
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

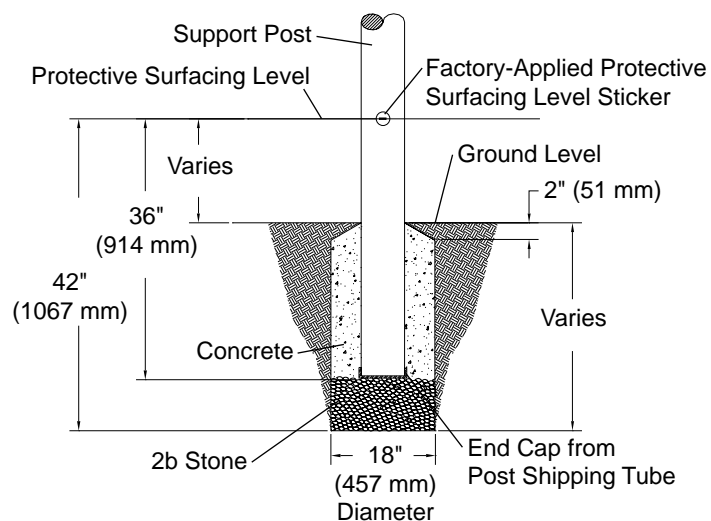
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

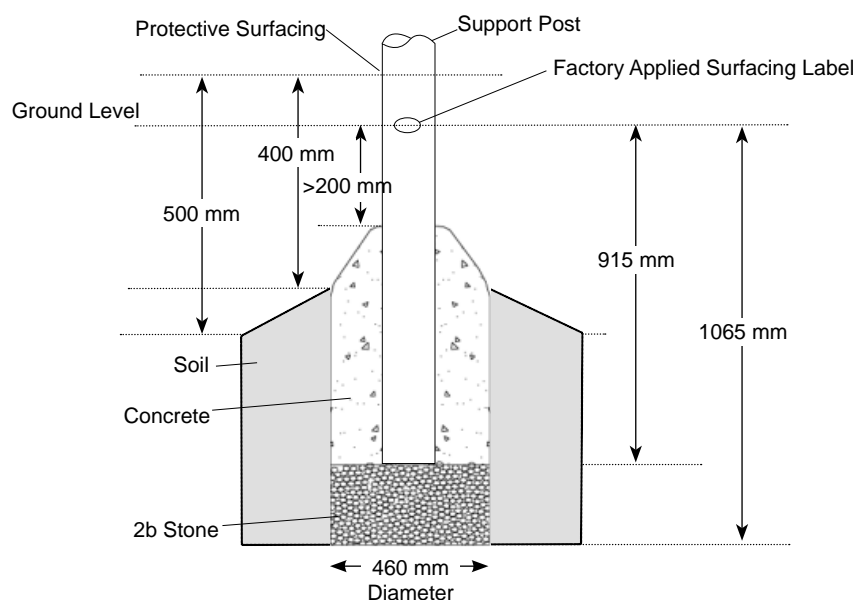
Installation Instructions



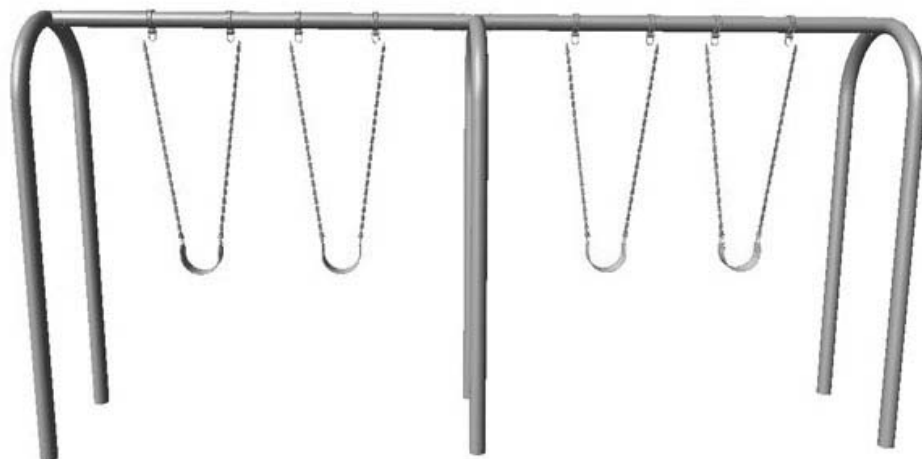
Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail Support Post (EN)



Assembly View

Installation Instructions


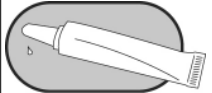

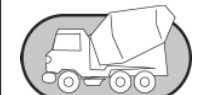



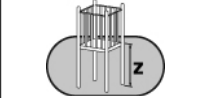
Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 2 man-hours
Weight: *156.2 lbs. (70,3 kg)
Concrete Required: 0.24 cubic yard (0,18 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

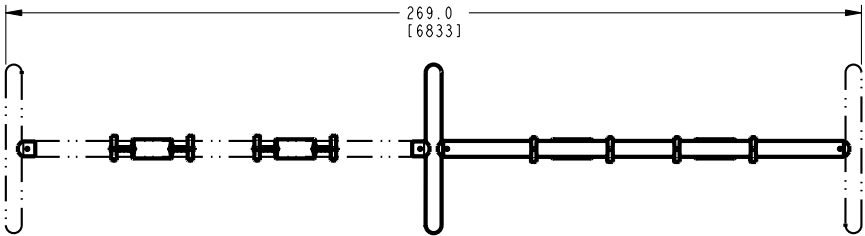
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

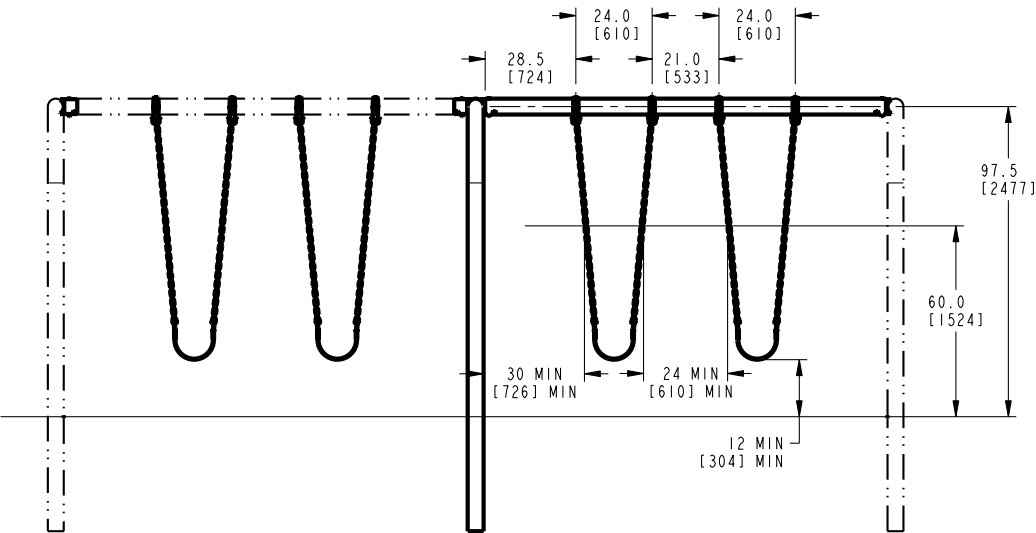
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

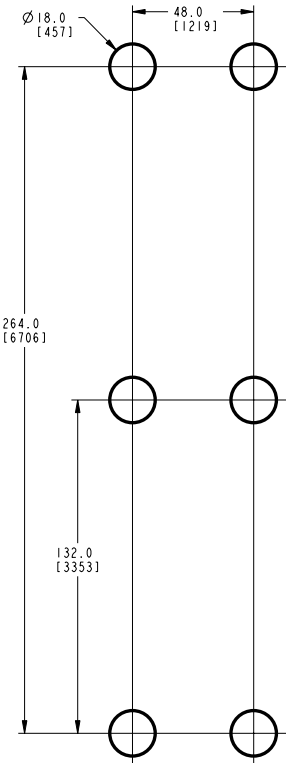
Top View



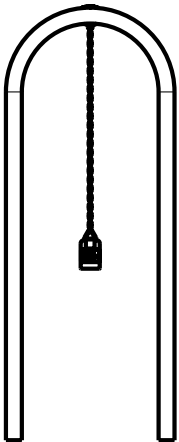
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

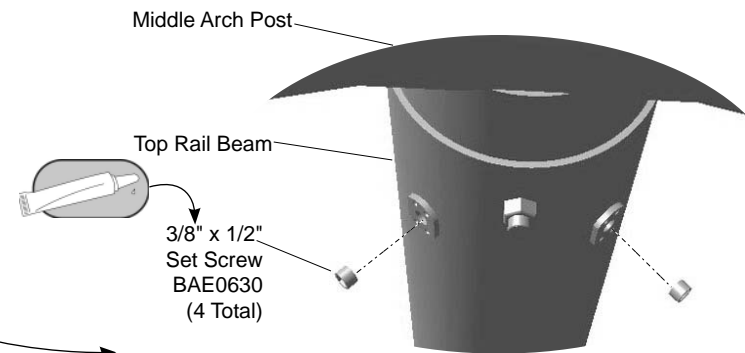
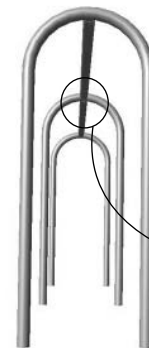
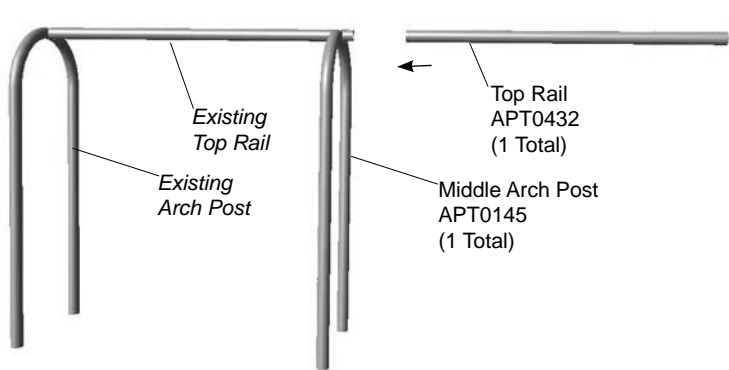


Footing Diagram



Installation Instructions

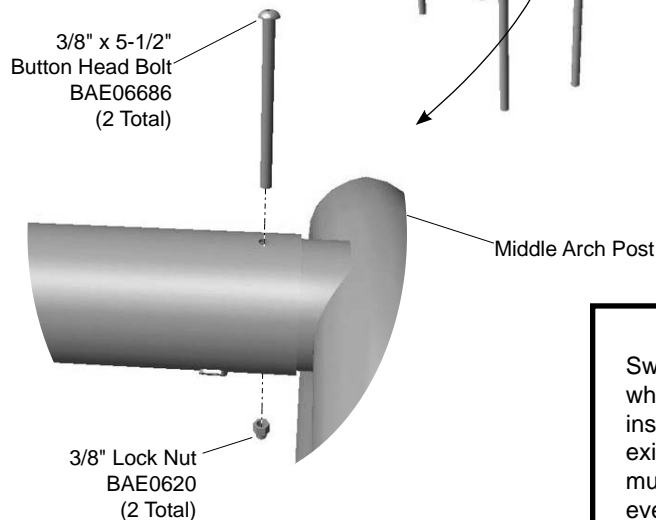
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

Detail B Step 7

Secure the top rails to the middle arch post.



Detail A Step 5

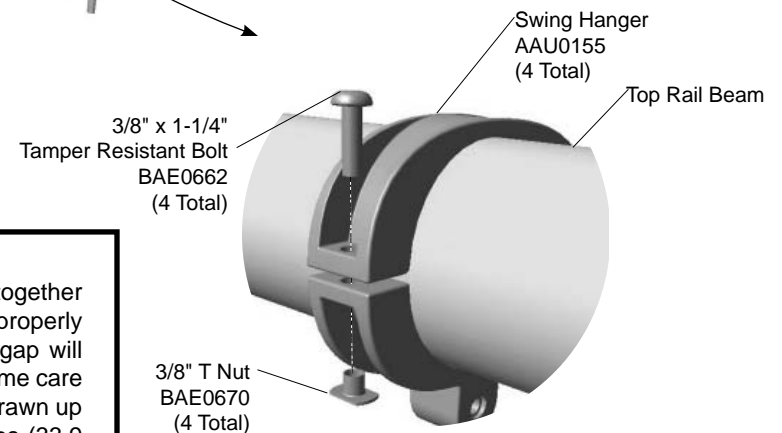
Attach both top rails (new and existing) to the middle arch support.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



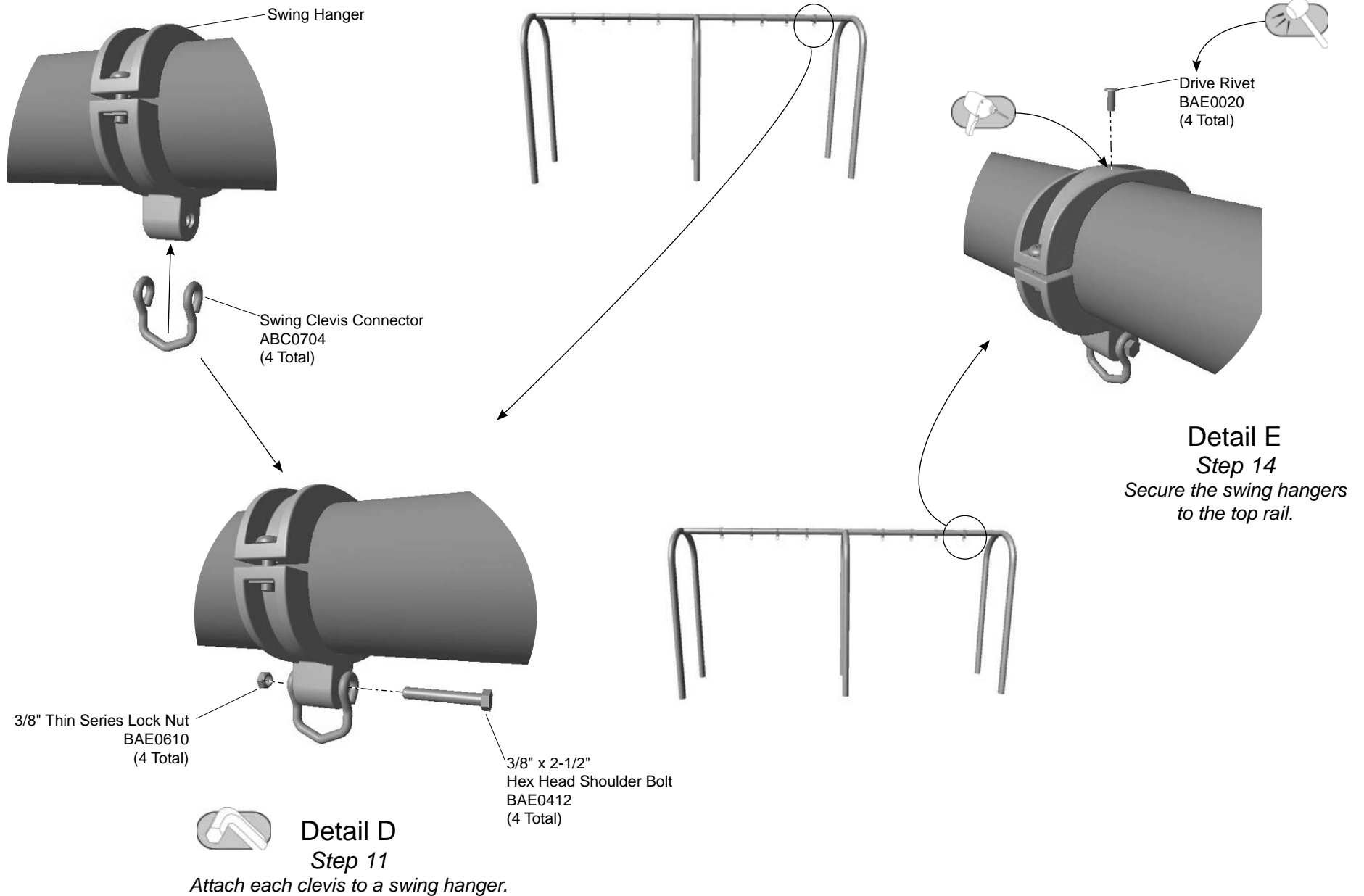
When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C Step 10

Attach swing hangers to the top rail.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1



Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____