

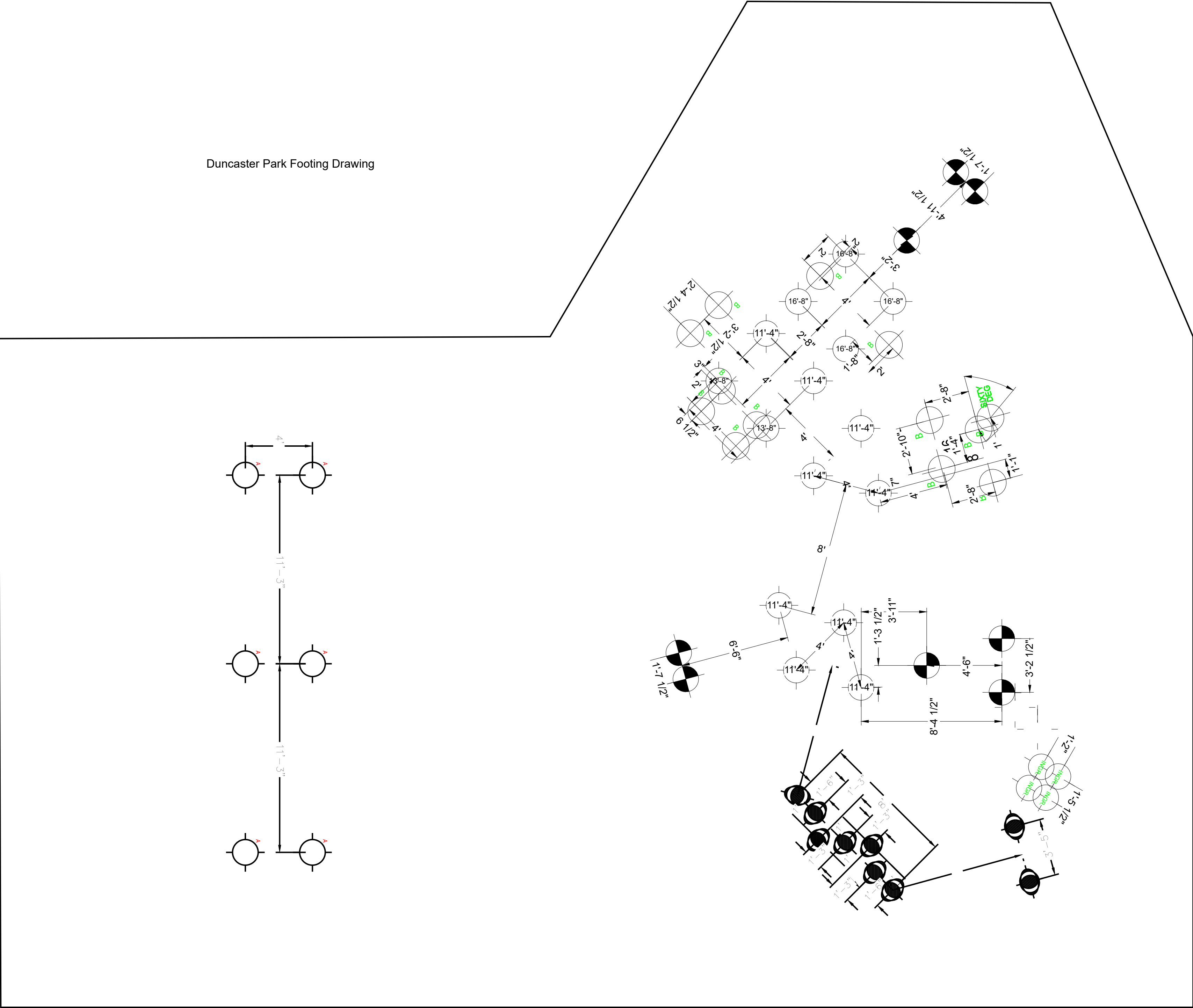
APPENDIX 1 MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

DONCASTER PARK
LUCIA CREST PARK
SEGOE PARK
WILLIAM SLATER PARK
WALNUT GROVE PARK

DONCASTER PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

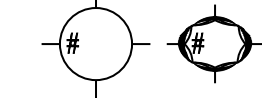
Duncaster Park Footing Drawing



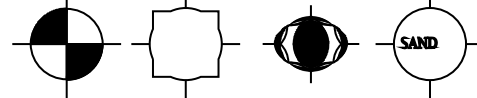
Footing Drawing Legend: Numbers in center of symbols denote post length (inches).

For inground equipment:

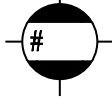
Post footing for posts for caps.



Play event footing

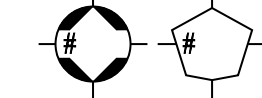


Post footing for posts without caps.

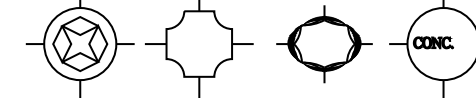


For surface mounted equipment:

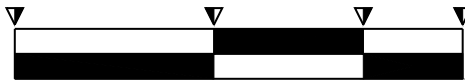
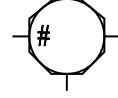
Post footing for posts with caps.



Play event footing.



Post footing for posts without caps.

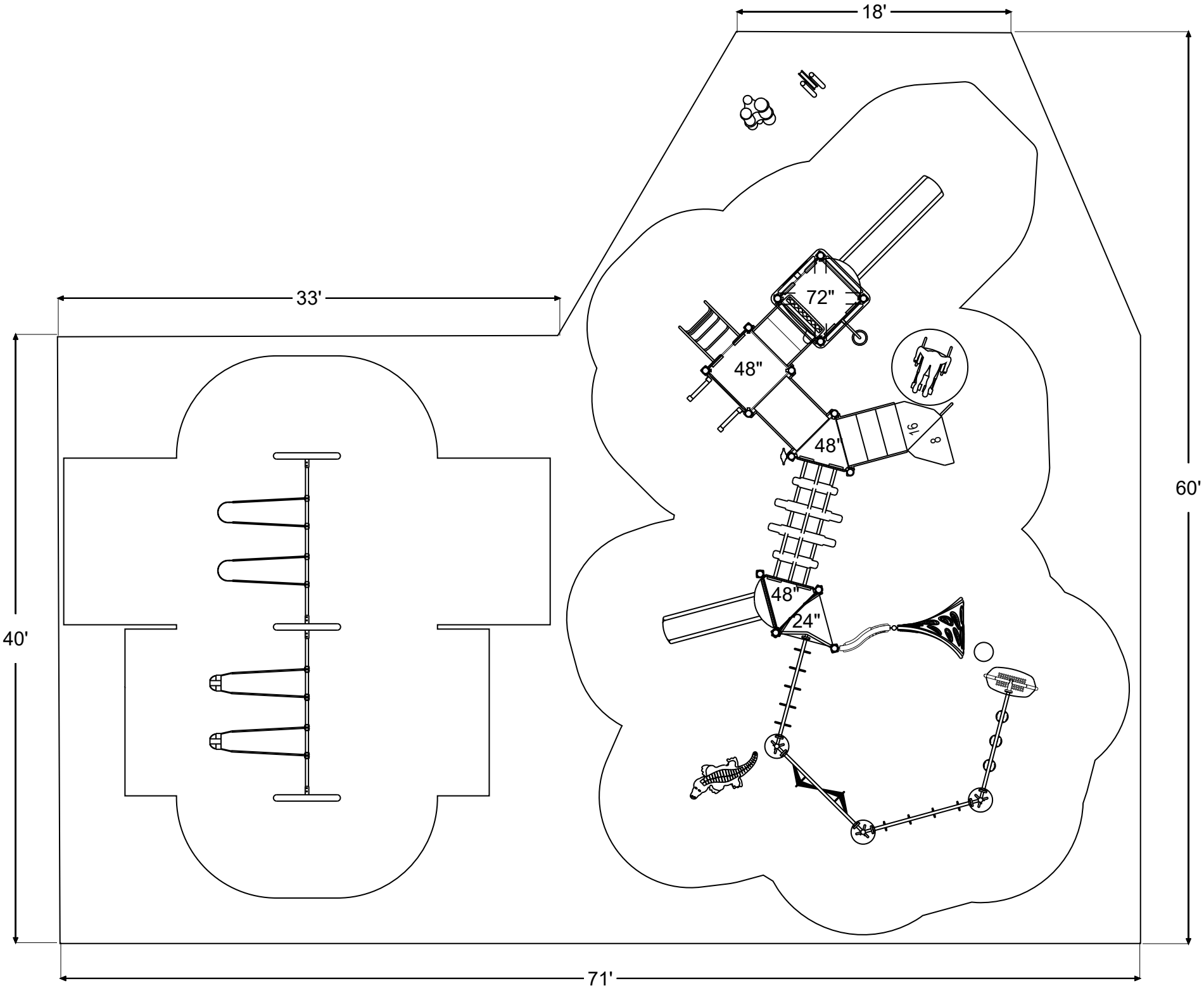


General Notes:

Age Group

☐ 2-5yrs ☒ 5-12 yrs ☐ 2-12yrs ☐ 13+ yrs

- 1.The Americans with Disabilities Act (ADA) may require that you make your park and/or playground accessible when viewed in its entirety. Please consult your legal counsel to determine if the ADA applies to you.
- 2.For playground equipment to be considered accessible, accessible surfacing must be utilized in applicable areas.
- 3.Although a particular playground design may not meet the proposed Access Board Regulations in regards to the appropriate number of ground level events, the actual playground may be in compliance when considering existing play components.
- 4.All deck heights are measured from top of ground cover.
- 5.Fall absorbing ground cover is required under and around all play equipment.
- 6.The minimum recommended fall zone around the entire playstructure is shown. This zone is to be free of all tripping or collision hazards (i.e. roots, rocks, border material, etc.).
- 7.All post lengths are identified by text showing the post lengths, i.e. 96 represents a 96 inch post.
- 8.Not all equipment may be appropriate for all children. Supervision is required.



Project: Duncaster Park

LTCPS rep:
Ericka Thompson
Northland Recreation
(262) 313-8636

Ground Space: 51'-0" x 52'-0"
Protective Area: 70'-6" x 56'-6"

Drawn by: Ericka Thompson
Date: 2/25/2019
DWG Name: R0324_43396590609

LTCPS - Farmington
878 East Highway 60
Monett, Missouri 65708
Voice: 1-800-325-8828
Fax: 417-354-2273

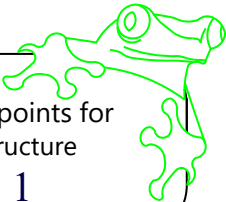
Playground Layout
Compliance:

- ☒ ASTM F1487 - Playground
Equipment for Public Use.
☒ CPSC Handbook for Public
Playground Safety



The play components identified in this plan are IPEMA certified. The use and layout of these components conform to the requirements of ASTM F1487.

LEED points for
this structure
1

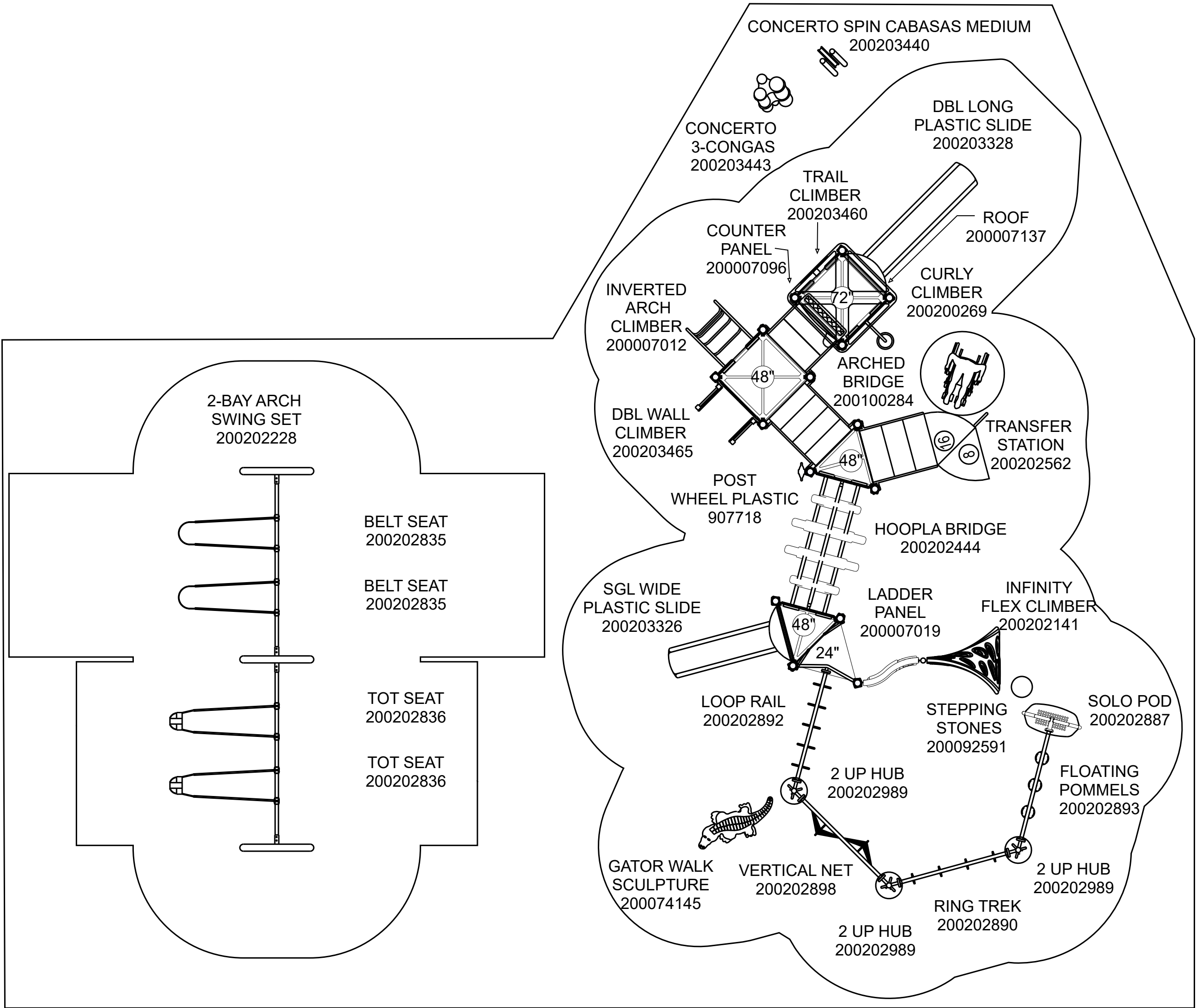


General Notes:

Age Group

☐ 2-5yrs ☐ 5-12 yrs ☐ 2-12yrs ☐ 13+ yrs

1. The Americans with Disabilities Act (ADA) may require that you make your park and/or playground accessible when viewed in its entirety. Please consult your legal counsel to determine if the ADA applies to you.
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4. All deck heights are measured from top of ground cover.
5. Fall absorbing ground cover is required under and around all play equipment.
6. The minimum recommended fall zone around the entire playstructure is shown. This zone is to be free of all tripping or collision hazards (i.e. roots, rocks, border material, etc.).
7. All post lengths are identified by text showing the post lengths, i.e. 96 represents a 96 inch post.
8. Not all equipment may be appropriate for all children. Supervision is required.



Project: Duncaster Park

LTCPS rep:
Ericka Thompson
Northland Recreation
(262) 313-8636

Ground Space: 51'-0" x 52'-0"
Protective Area: 70'-6" x 56'-6"

Drawn by: Ericka Thompson
Date: 11/25/2018
DWG Name: R0324_43396590609

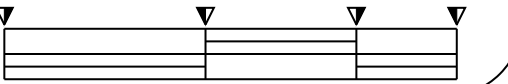
LTCPS - Farmington
878 East Highway 60
Monett, Missouri 65708
Voice: 1-800-325-8828
Fax: 417-354-2273

Playground Layout
Compliance:

- ☐ ASTM F1487 - Playground Equipment for Public Use.
☐ CPSC Handbook for Public Playground Safety

The play components identified in this plan are IPEMA certified. The use and layout of these components conform to the requirements of ASTM F1487.

LEED points for this structure
1





Project Number: R0324190109

PlayArea: Additional Items |

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

Please, read all information in this manual
before starting to install your equipment.

Date: 2/25/2019 12:00:00 AM

LABEL, IDENTIFICATION STAMPED W/RIVETS

200111492

AUTHORIZED BY:

04MAR13

Signature

Item	Code	Description	Qty.
1	200126872	PLATE ALUM. CR80 x .016 (I.D. LABEL)	1
2	200126822	RIVET POP ALUM 1/8" X 1/4" PRADA440	4

Application

This product identification label is an important part of your structure. It will provide key information for replacement parts and any warranty issues.

Installation Instructions

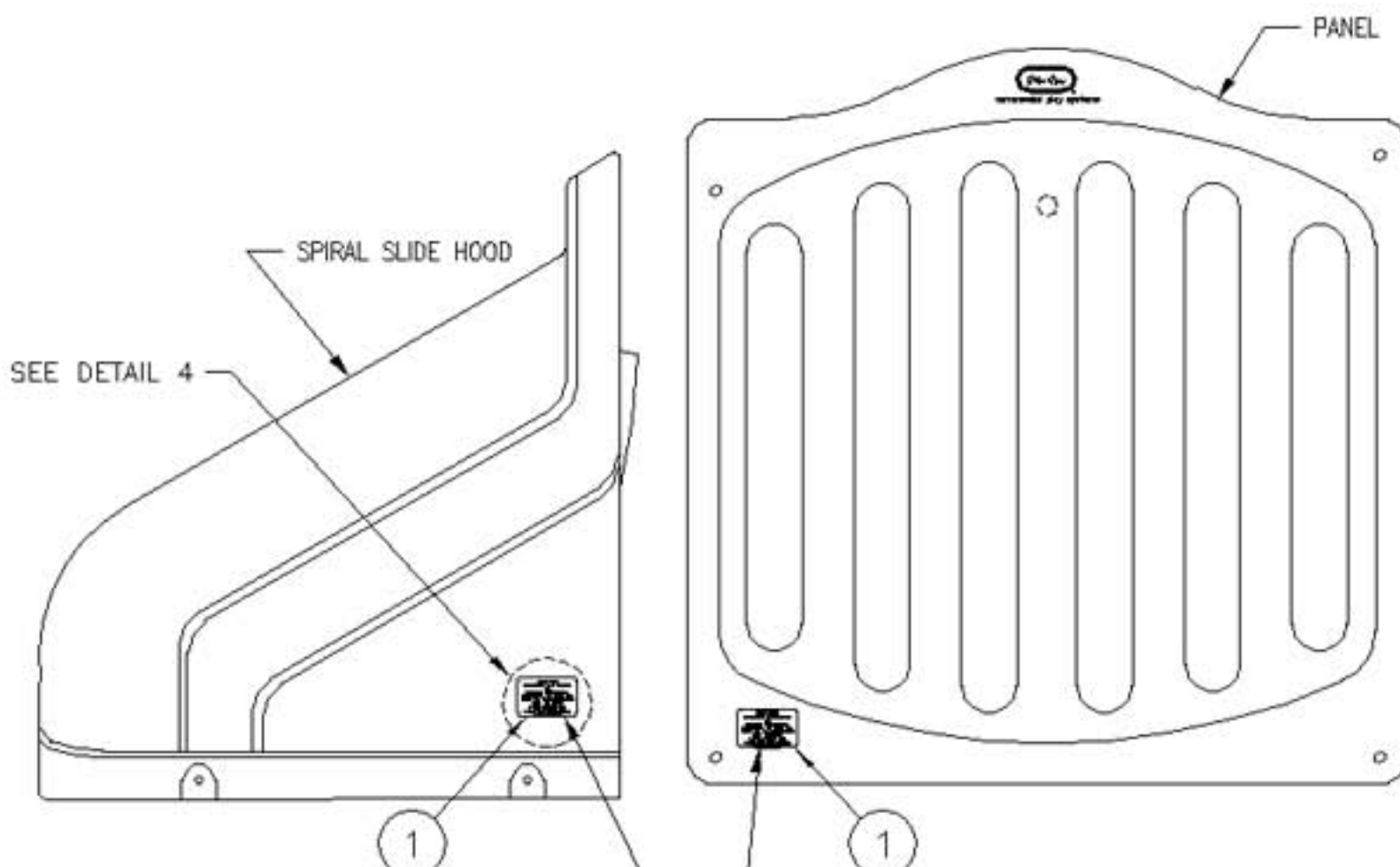
1. The product identification label (item 1) needs to be located in a non active area. It is preferred to be placed on the outside of a spiral slide hood as shown in Detail 1. If there is no spiral slide hood, mount the label on the outside of any panel in the location shown in Detail 2. If you have an all steel structure, or a contained play structure, the label should be attached to a post as shown in Detail 3. On all steel structures, mount the label on a post in a location resistant to tampering, while still easy enough to locate and read when necessary. For contained play structures, the label should be attached to a post in the inaccessible area near the maintenance entrance. For small diameter posts, such as in contained play, it may be easier to mount and read the label in a vertical position as shown in Detail 3.

2. Using the label as a template, mark and drill 4 $\phi 4\text{mm}$ [5/32"] holes.

3. Attach the label using 4 pop rivets (item 2) as shown in Detail 4. Note: Insure label is flush with the surface and no gaps exist.



2



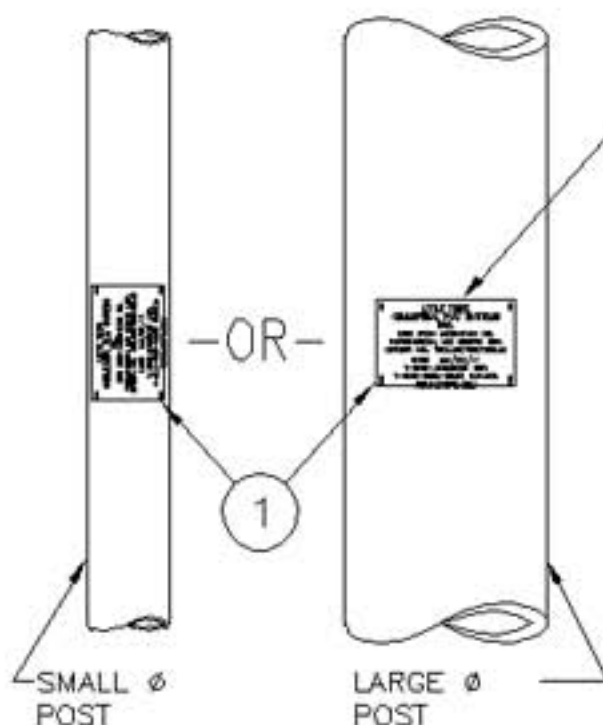
DETAIL

1

DETAIL

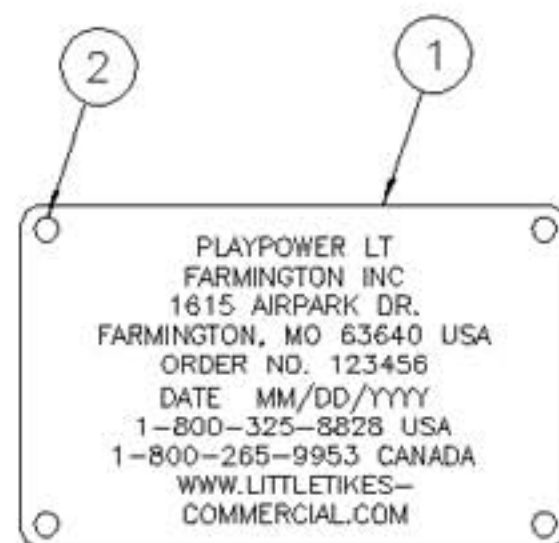
2

NOTE:
ATTACH LABEL IN ONE OF THESE LOCATIONS PER STRUCTURE.



DETAIL

3



DETAIL

4

AGE APPROPRIATE LABELS

1000005B

Sheet 1 of 1

AUTHORIZED BY: 03JUL18
TRACY ARCHER

AGE APPROPRIATE LABEL (2 TO 5 YRS) 200104304

Item	Code	Description	Qty.
1A	200104304	LABEL AGE APP. (2 TO 5 YRS.)	1
2	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
3	116099	LABEL, PLAY SMART RULES	1

AGE APPROPRIATE LABEL (2 TO 12 YRS) 200104305

Item	Code	Description	Qty.
1B	200104305	LABEL AGE APP. (2 TO 12 YRS.)	1

AGE APPROPRIATE LABEL (5 TO 12 YRS) 200104307

Item	Code	Description	Qty.
1C	200104307	LABEL AGE APP. (5 TO 12 YRS.)	1

Installation Instructions

1. Identify locations where labels are to be installed. These locations will be specified on the Playground Layout Drawing.
2. Clean the area of the post where the label is to be applied. The label should be placed approximately 1220mm [48"] above the protective surfacing and should face outward so that it is easily visible to users. If an obstruction is located at the 1220mm [48"] height, raise or lower the label so that it will attach directly to the post.
3. Remove backing from label and carefully apply it making sure it is oriented squarely on the post. Rub label to remove all air bubbles.

1A

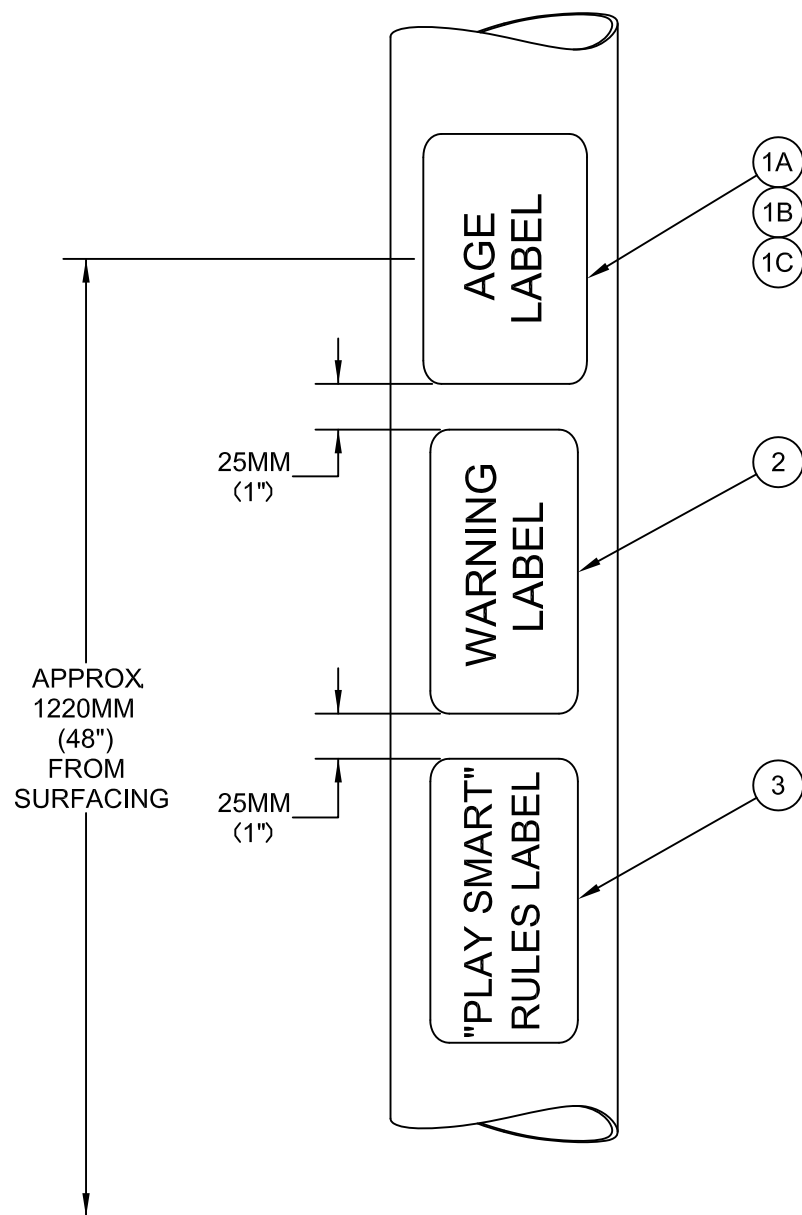
Age
Label
2-5
yrs.

1B

Age
Label
2-12
yrs.

1C

Age
Label
5-12
yrs.





Project Number: R0324190109

PlayArea: Biba_Included | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

Please, read all information in this manual
before starting to install your equipment.

Date: 2/25/2019 12:00:00 AM



Biba Playground Entry Sign

IMPORTANT! The Biba Playground Entry Sign is to be installed outside the defined play area and play equipment use zones. It needs to be oriented so that the **front side** faces the main entrance to the playground and next to but not interfering with the accessible route that leads to the play space.

Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>
9991	Biba Playground Entry Sign - English
9993	Biba Playground Entry Sign - French/English
9994	Biba Playground Entry Sign - Spanish/English
9995	Biba Playground Entry Sign - French



FRONT

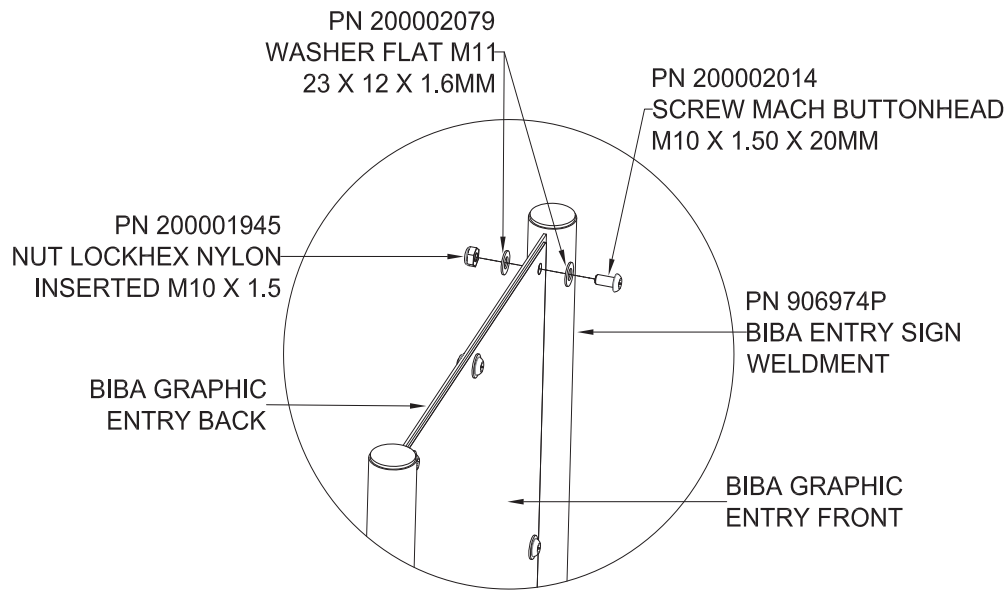


BACK

Biba Playground Entry Sign

STEP 1 ATTACH SIGN TO POST FRAME

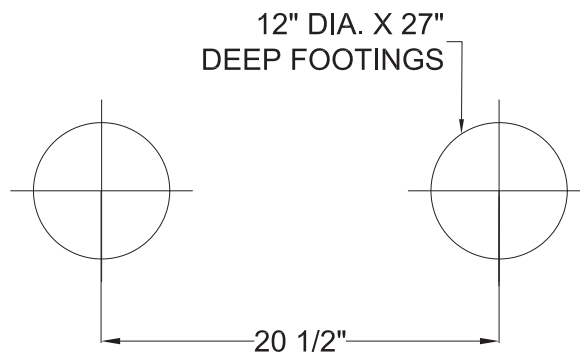
1a. Attach sign as shown below, in five (5) locations.



STEP 2 DIG FOOTINGS

2a. Dig footings per *Footing Layouts*, Construction Drawings, and *Footing Details* installation.

Note: Do not pour concrete for footings until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.

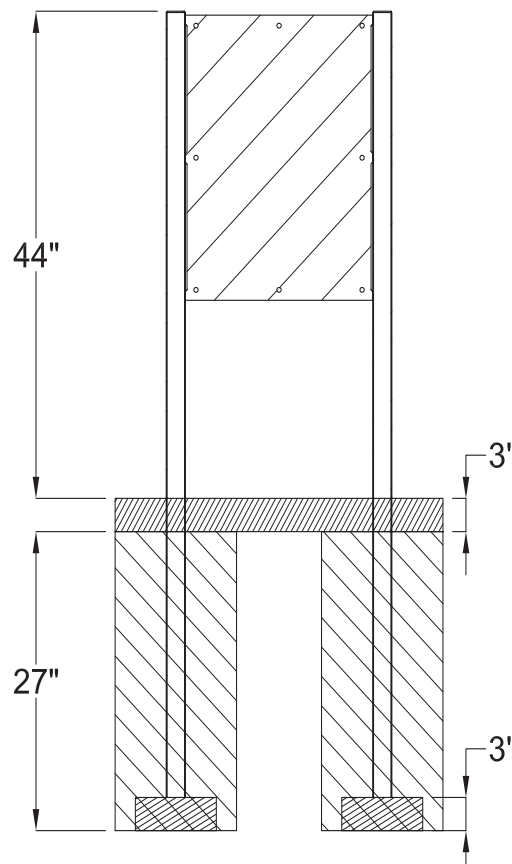




Biba Playground Entry Sign

STEP 3 SET SIGN IN FOOTINGS

- 3a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 3b. Set sign in footings per Construction Drawings pour concrete; plumb sign in footings and brace in position until concrete is cured.



FINAL STEP

Proceed with *Final Assembly installation* located behind *Installations 101* in Installation Manual.

Biba Playground Entry Sign

Bill of Material

Model 9991

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	903979	BIBA GRAPHIC ENTRY FRONT FULL ENGLISH
1	903980	BIBA GRAPHIC ENTRY BACK FULL ENGLISH
1	912637	PARTS CARTON 9991 BIBA

Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Model 9993

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	906215	BIBA GRAPHIC ENTRY FRONT FRENCH/ENGLISH
1	906214	BIBA GRAPHIC ENTRY BACK FRENCH/ENGLISH
1	912637	PARTS CARTON 9991 BIBA

Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5



Biba Playground Entry Sign

Bill of Material cont.

Model 9994

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	906217	BIBA GRAPHIC ENTRY FRONT SPANISH/ENGLISH
1	906216	BIBA GRAPHIC ENTRY BACK SPANISH/ENGLISH
1	912637	PARTS CARTON 9991 BIBA

Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Model 9995

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	903988	BIBA GRAPHIC ENTRY FRONT FULL FRENCH
1	903989	BIBA GRAPHIC ENTRY BACK FULL FRENCH
1	912637	PARTS CARTON 9991 BIBA

Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Installation of Biba Play Event Markers

Step 1: Locate post markers next to the specific events as indicated below. The markers should be placed at approximately 48" (1220 mm) above surfacing. Actual height may need to be adjusted to not conflict with structure clamps (default to lower rather than higher in this case, no higher than 5', no lower than 2' above surfacing). During play, markers will be scanned by caregivers at ground level. Place markers along accessible surfacing routes within the play space to facilitate wheelchair use. Markers need to be oriented so that they relate to the play activity but do not interfere with the play patterns of the users.



Attach the Biba play event markers as shown below.

Step 2: Stack up graphic backer (item 4) to Biba graphic (item 3) and nest them into the back of graphic frame (item 2). Position the assembly to the post next to the play event and attach using two (2) self-drilling TEK screws (item 1).

Parts List:

#	9992	Post Markers	Qty
1	104404	1 Bolt ¼ - 14 X 2 Hex Washer TEK	12
2	906977	Alum Frame For Biba Post Sign	6
3	906984	Biba Graphic Post Orange	1
3	906983	Biba Graphic Post Purple	1
3	906982	Biba Graphic Post Yellow	1
3	906981	Biba Graphic Post Blue	1
3	906980	Biba Graphic Post Red	1
3	906979	Biba Graphic Post Green	1
4	906978	Rubber Biba post sign backer	6

Equipment Categories

Marker colors are tied directly to each category and must be installed in the orientation shown

Climbers Red Marker



This group contains all climbers and free standing climbers such as stepping pod climbers, rung climbers, net climbers, climbing walls, etc.

Overheads Purple Marker



This group contains all overheads event such as overhead rotating wheels, ring treks, overhead ladders, chinning bars, etc.

Bridge/Deck to Deck link Orange Marker



This group contains linking events such as suspension bridges, arch bridges, rope bridges, themed deck links, side step climbers, etc.

Slides Yellow Marker



This group contains all types of slides such as spiral, curved, roller, tube, multi bed-way, etc.

Tubes Blue Marker



This group contains crawl tubes that are structure mounted or those at ground level. In the case that the play equipment contains both a standard slide and a tube slide, then the tube slide can be placed in this category.

Swings Green Marker



This category covers all types of swinging activities, such as multiuser dish swings, tire swings, generation swings, and tot or belt swings.

If your playground does not contain play equipment from each category, don't worry, the games can function with fewer than six markers/activities. Install markers next to each piece of equipment that is present. Markers for equipment not present should not be installed.



Project Number: R0324190109

PlayArea: PlayArea_1 | KidBuilders

Project Name:

Project Location:

Sales Representative:

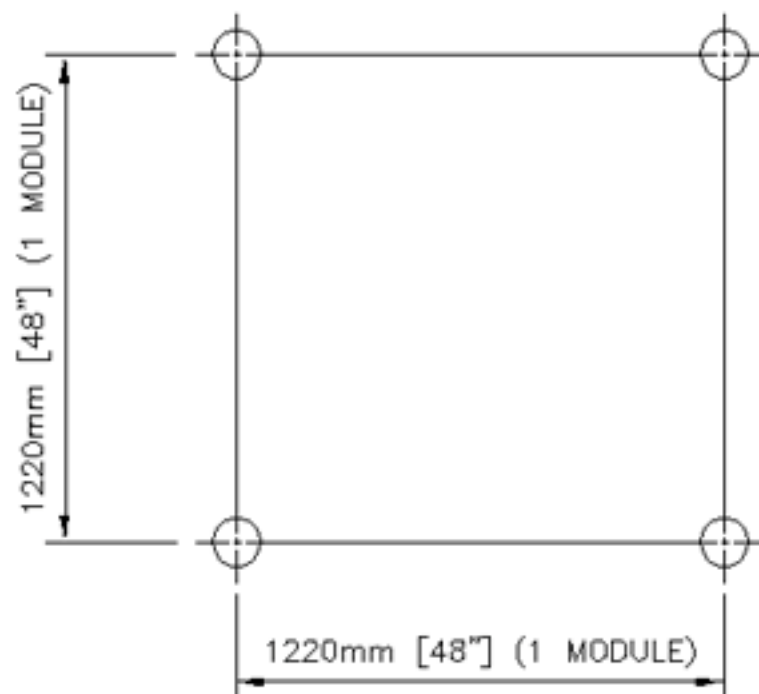
Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

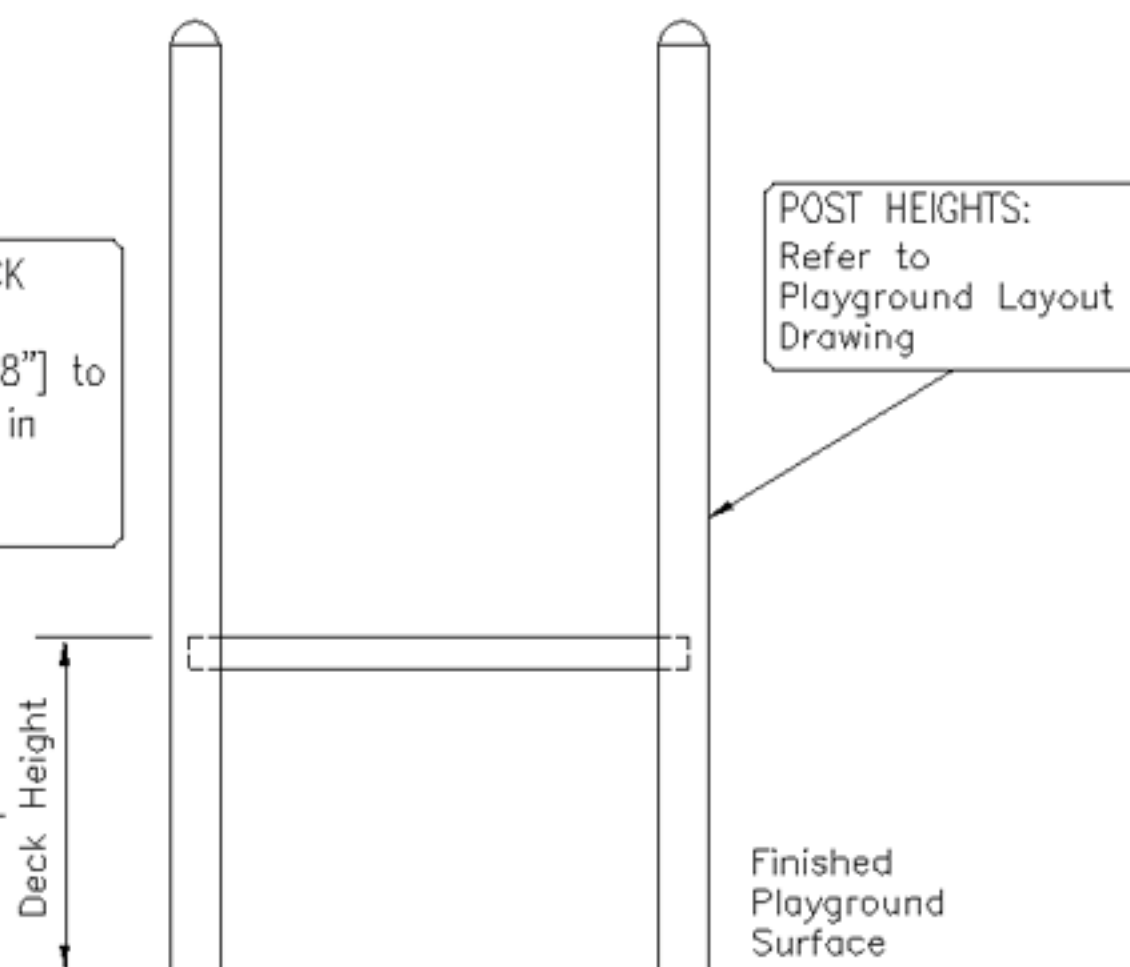
Please, read all information in this manual
before starting to install your equipment.

Date: 2/25/2019 12:00:00 AM

Posts and decks of the Kid Builders system are based on a module of 1220mm [48"] x 1220mm [48"]



STANDARD DECK HEIGHTS:
From 203mm[8"] to 2440mm[96"] in 203mm[8"] increments.



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

BEFORE STARTING INSTALLATION OF YOUR KID BUILDERS PLAYGROUND, "PLEASE READ INSTRUCTIONS THOROUGHLY"

AUTHORIZED BY:
Chris M. MacLennan 15MAR01

SITE REQUIREMENTS:

The Kid Builder system is designed to suit a level site. Should there be any falls or slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

MAINTENANCE:

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm[3.5"] to 228.6mm [9"], or string entanglements. Make certain the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

SAFETY AREAS:

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

INSTALLATION MANUAL:

We have tried to make this installation manual as comprehensive and factual as possible. Please note from time to time information may be changed or updated. Equipment shown or described throughout this manual may be changed. The right is reserved to make changes at any time without notice.

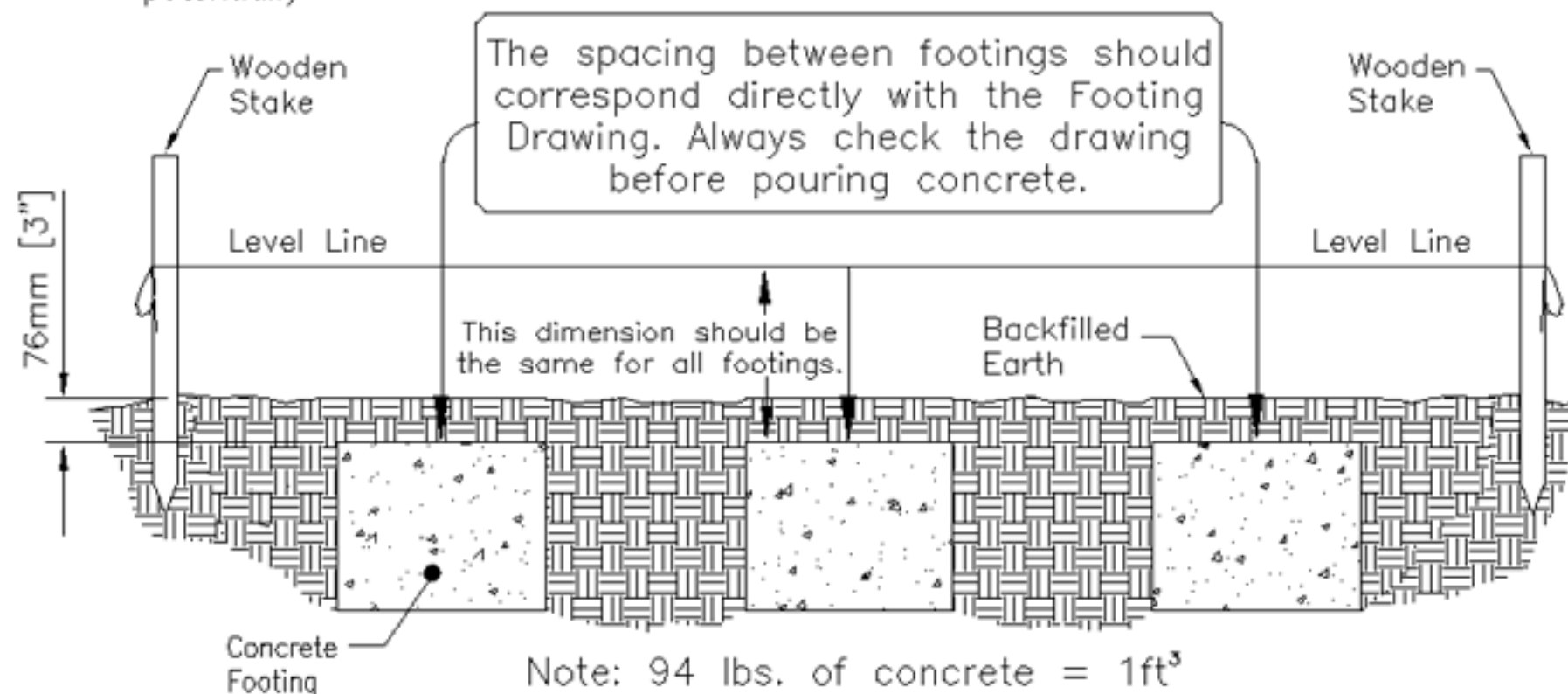
THE ORDER OF ASSEMBLY:

- 1) Prepare your site. (Consideration is necessary for installing the talk tube on a structure. See Site Preparation Guidelines, or Talk Tube instructions for details.)
- 2) If you are using an Anchor bolt, you will need to pour concrete at least 48 hours in advance. Do not leave any open holes overnight. (Never leave a structure overnight in a potentially hazardous condition, i.e. open footing holes, open decks, exposed concrete, without roping off the area and posting warning signs. It is always best if the construction is scheduled such that the entire installation can be performed in one day, however, with larger structures this may be difficult.)
- 3) Start with the lowest deck and four posts. Calculate the location of the deck top on the first post by adding 991 [39"] to the deck height. Mark the post then install as shown. (See Square Deck installation instructions for further details. THE INSTALLATION OF THE FIRST DECK IS CRITICAL TO PROPERLY INSTALLING THIS EQUIPMENT, SO MAKE SURE THE POSTS AND DECK ARE AT THE PROPER HEIGHT AND ARE PLUMB AND LEVEL.
- 4) Place this assembly in the footings. If you are sure the first deck assembly is correctly positioned, you may pour the four post footings at this time to help stabilize the structure. If installing the Surface Mount method, move the assembly to the proper location. Use the feet as templates, drill bolt holes and secure the structure to the footings.
- 5) If a Deck to Deck Plate, Ladder Panel, or Interstep Deck are to be attached to the first deck, assemble the bottom edge to the deck edge. See individual instructions for details.
- 6) Attach the next deck to two posts and move the posts into the footing holes and level the deck. Attach the two open corners of the deck to the previous deck assembly posts. Finish installing the deck to deck attachment by assembling it to the edge of the upper deck.
- 7) Attach any structure linking events or overheads to the deck assemblies, such as Crawl Tunnels, Clatter Bridges, Burmese Bridges, Suspension Bridges, Challenge Ladders, etc. Continue to add the remaining decks and deck attachments to the existing structure until all platforms are in place.
- 8) Make sure the structure is level and the decks are at the proper height. Install any roofs or enclosures.
- 9) Install all remaining events.
- 10) Tighten all hardware and install clamp drive pins. Be sure to use as many as the instructions call out.
- 11) Place warning labels on the structure. Inspect playground for protruding hardware, entrapment gaps between 89mm [3-1/2"] to 229mm [9"], and string entanglements. Make sure the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible exposed bolt ends that protrude beyond the face of the nut more than two threads should be trimmed and peened by the installer.
- 12) Install resilient surfacing on the entire "use zone".

MAKING LEVEL FOOTINGS:

By using wooden stakes and stringing a level line, you can determine the proper height for your concrete. If available, a surveyor's transit will also be helpful.

Determine ground level at the lowest footing location and pour concrete in this location first. This level will be your datum plane. (The point at which all other footing heights are referenced from.) Pour the rest of the footings up to 76mm[3"] from the level of the datum plane. Make sure that all measurements from the top of the poured footing to the level line are the same. (Hint: If installing a surface mount structure, concrete should be poured at least 48 hours in advance of the playground being installed to ensure maximum holding potential.)



Note: 94 lbs. of concrete = 1ft³
207 grams = 0.041m³

If installing with the Inground method, you must always backfill footings with at least 76mm[3"] of earth after concrete has cured (not shown).

SUGGESTED TOOLS:

- | | |
|---------------------------------------|----------------------------------|
| - 2 Magnetic Levels | - Extension Cords |
| - 1 1220[48"] Carpenter's Level | - Water Supply/Garden Hose |
| - 2 Measuring Tapes | - Wooden Stakes |
| - 1 Felt Tip Pen | - Concrete (in some cases) |
| - 1 Sledge Hammer or Rubber Mallet | - Some sort of digging equipment |
| - 1 610mm-915mm [24"-36"] Bolt Cutter | - Transit |
| - 1 Roll of String | - Adjustable Wrenches |
| - Ratchets for M10 Torx Service Drive | - Metric Socket Set |
| - Electric Drill | - Various Drill Bits |
| - C-Clamps | - Wheel Barrow |
| - Saw Horses | - Ladders |
| - Resilient Ground Cover | - Generator/ Power Source |



WARNING

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

L'INSTALLATION SUR SURFACE DURE TELLE QUE DU CIMENT, DE L'ASPHALTE OU DE LA TERRE BATTUE PEUT CAUSER DE SERIEUSES BLESSURES OU MEME LA MORT EN CAS DE CHUTE.

INSTALACION SOBRE UNA SUPERFICIE DURA, TAL COMO CONCRETO, ASFALTO O TERRENO COMPACTADO, PUEDE PROVOCAR QUE UNA CAIDA CAUSE LESIONES SERIAS O INCLUSO LA MUERTE.

Little Tikes Commercial Play Systems Inc.
P.O. Box 897
Farmington, MO 63640

For more information, call Little Tikes
Commercial Play Systems Inc.
at 1-888-458-2737 or 1-573-756-4591

← This label has been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the safety risk involved if a fall onto a hard surface occurs.

It is important when installing your play equipment to display this label in a prominent location on each structure.

This label should be placed such that it will:

(1) Be readily visible to the intended viewer and,

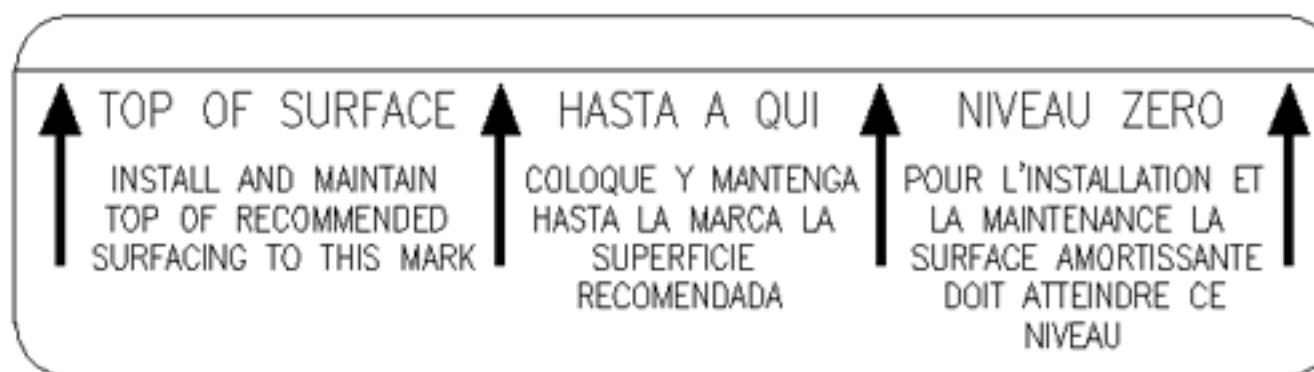
(2) Alert the viewer to the potential hazard in time to take appropriate action.

Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

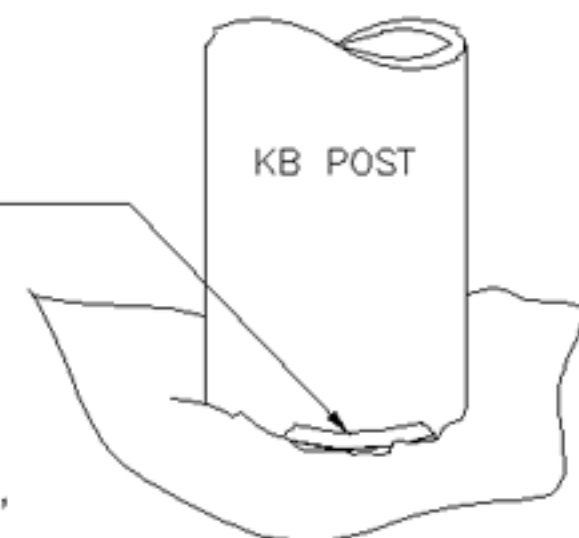
SLIDE INSTALLATION:

Due to manufacturing variability, the actual slide footing dimensions may vary from the installation instruction dimensions by as much as 50mm [2"]. Actual footing locations should be determined by positioning assembled equipment.

If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will be able to provide you with the information you require.

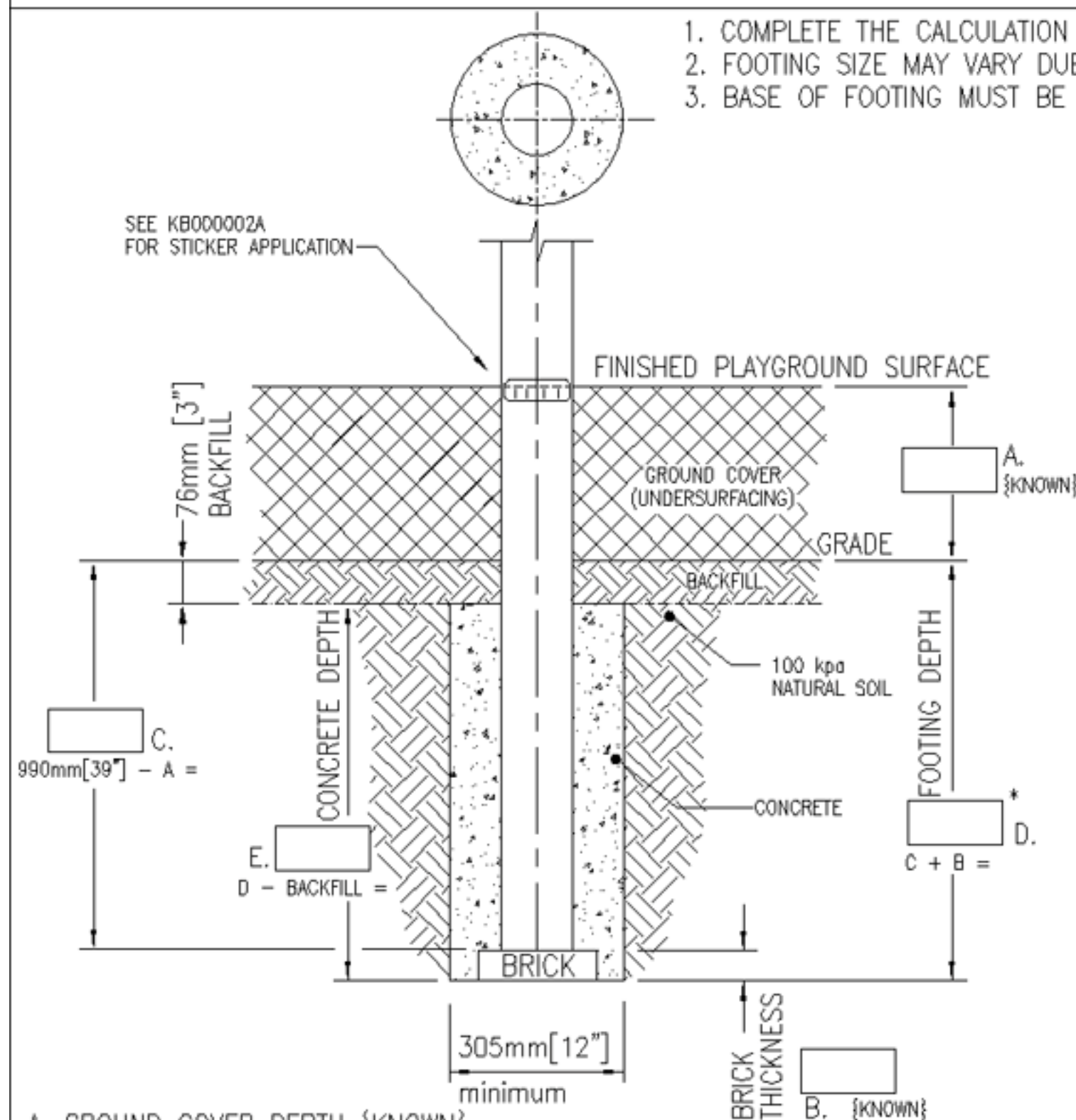


The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the top of your ground cover. As erosion or compaction of surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing.



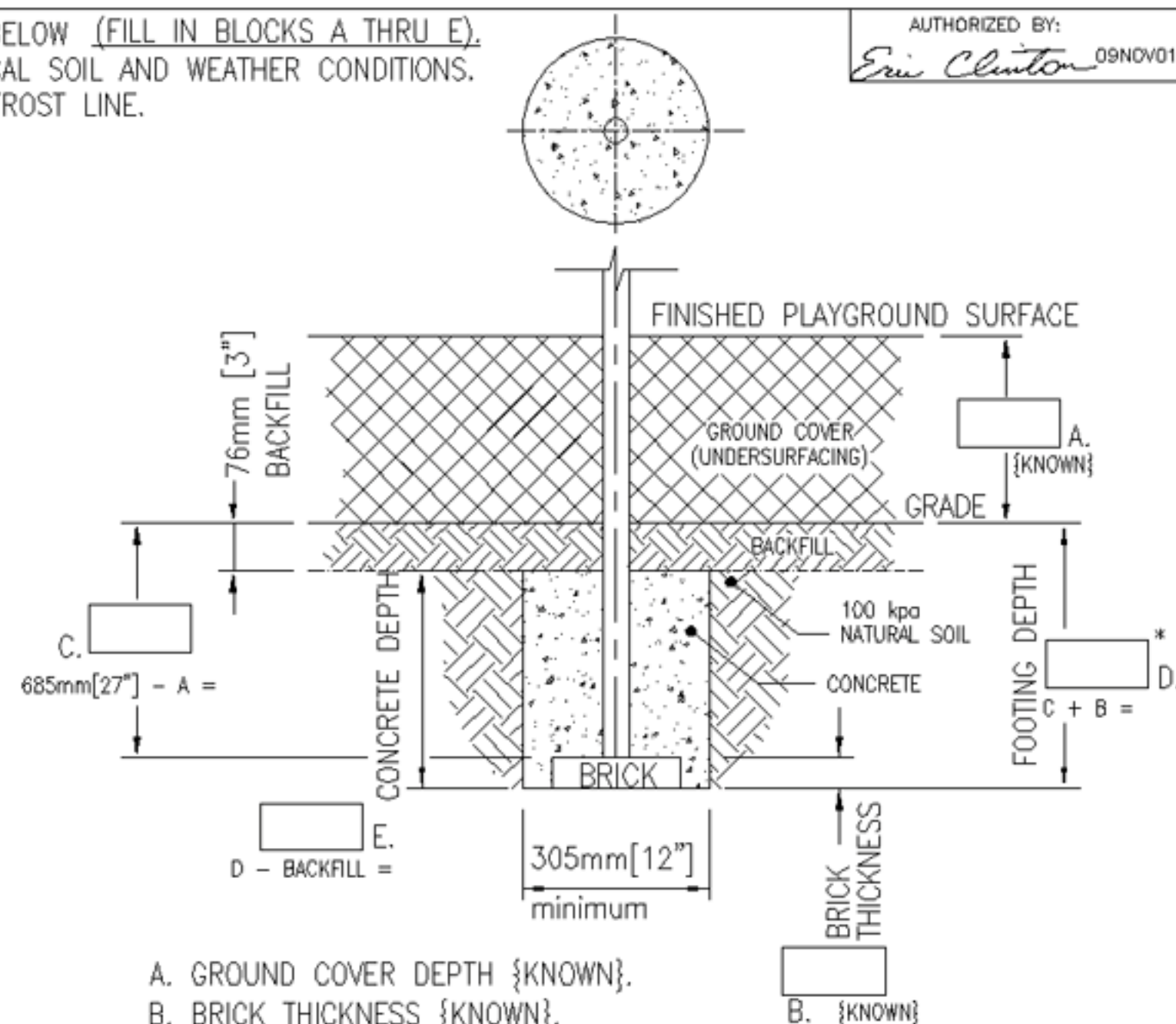
1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.

SEE KB000002A
FOR STICKER APPLICATION



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 990mm[39"] - A BECAUSE A + C SHOULD ALWAYS EQUAL 990mm[39"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.
- *MINIMUM 610mm[24"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

KB POST FOOTING - INGROUND



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 685mm[27"] - A
- BECAUSE A + C SHOULD ALWAYS EQUAL 685mm[27"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.
- *MINIMUM 305mm[12"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

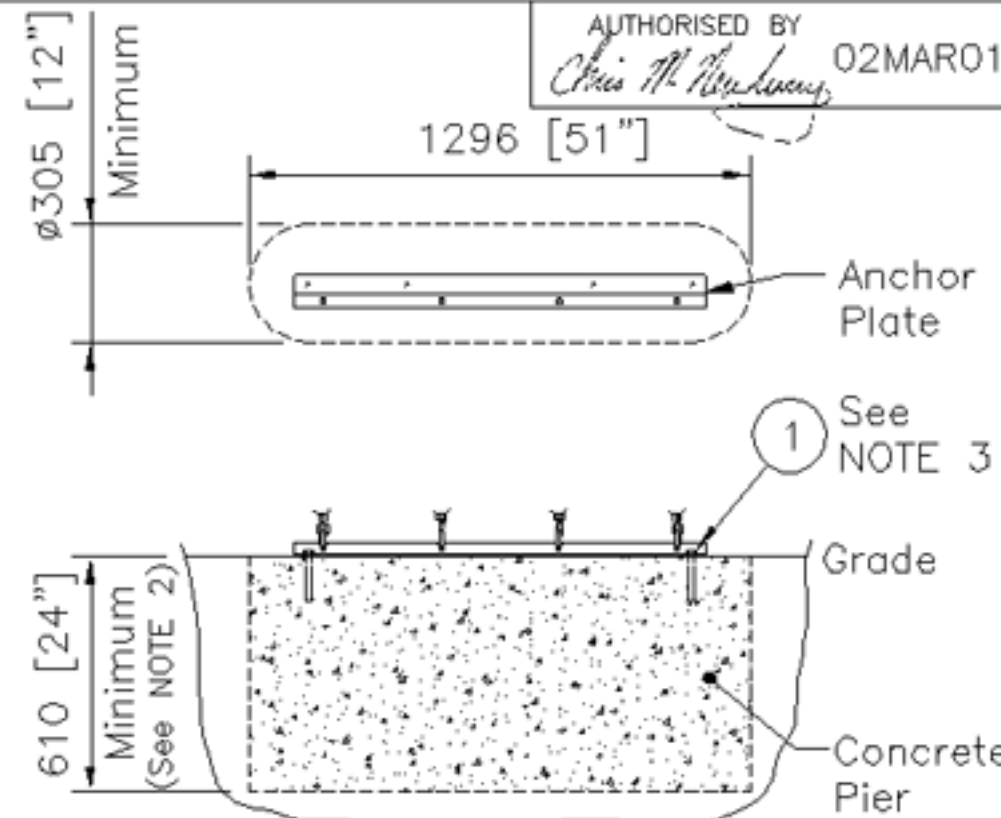
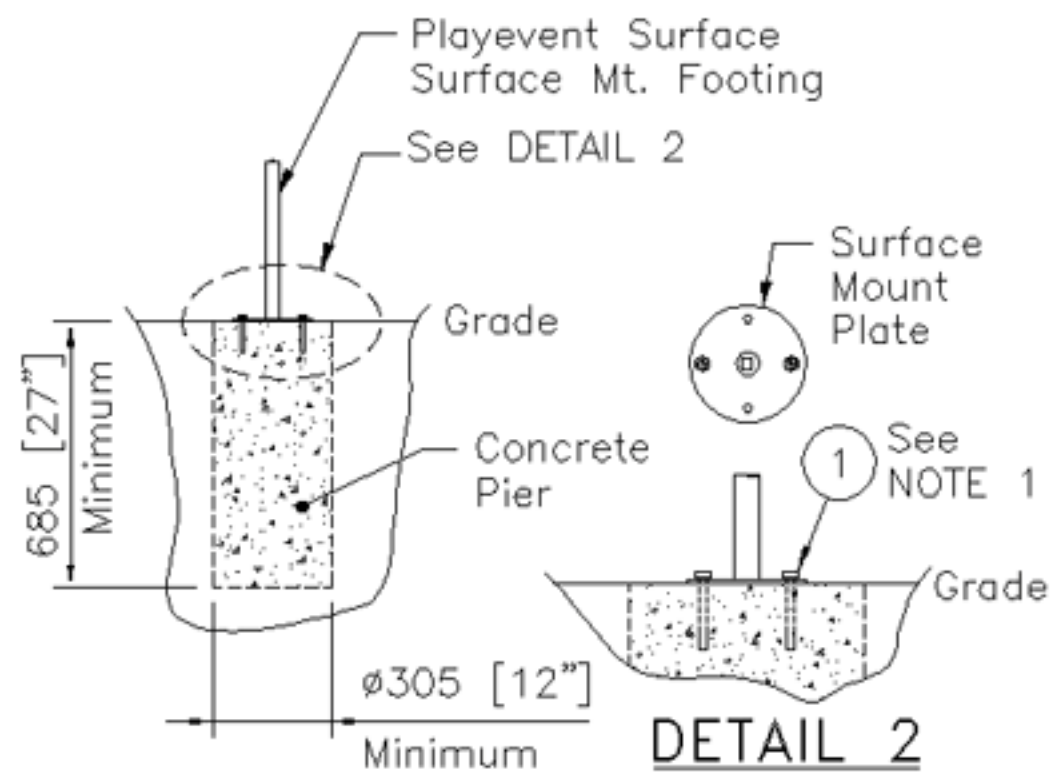
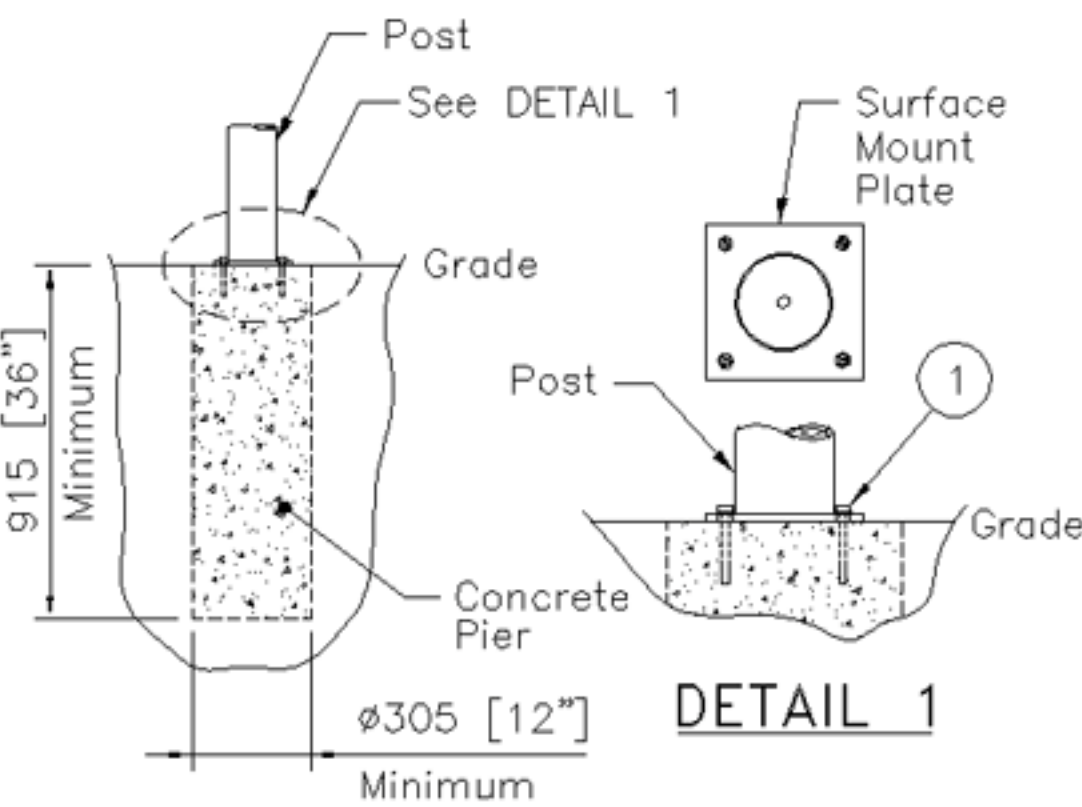
VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$$= 0.067 \text{ M}^3 \times \frac{\text{CONCRETE DEPTH (mm)}}{915} \times \text{No. OF FOOTING HOLES} = \text{M}^3$$

$$= 0.087 \text{ Yard}^3 \times \frac{\text{CONCRETE DEPTH (IN)}}{36} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

OPTION 1: PIER



NOTE 1: Two per plate, diagonally located.

NOTE 2: Depth is less than round anchor because of extra volume of concrete.
NOTE 3: Anchor bolts shown on ends, but can be moved to other holes if necessary for accessibility.

Round Anchor

Anchor Plate

Post Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

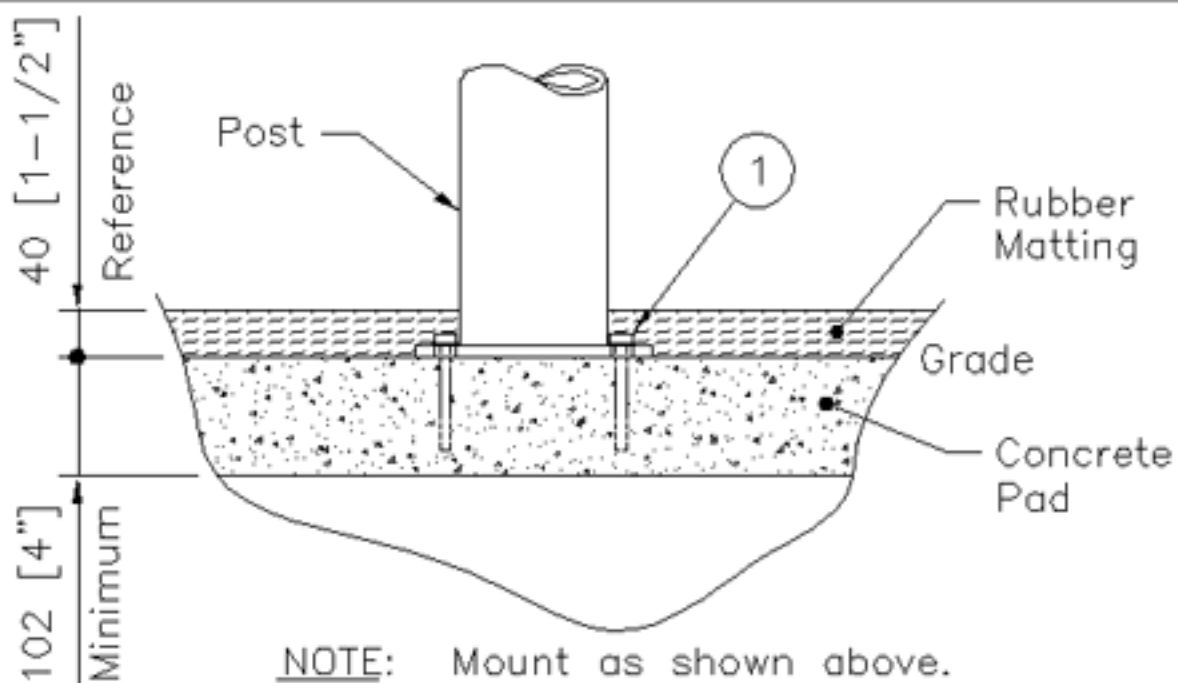
Post Footing

Playevent Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

Playevent Footing

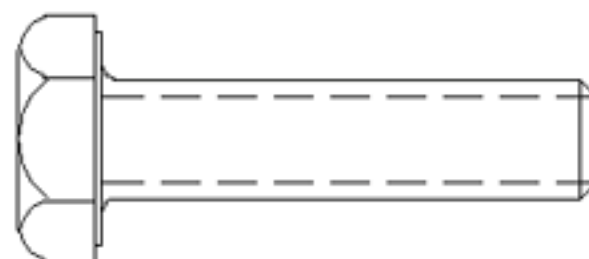
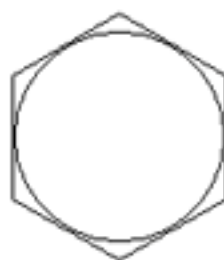
OPTION 2: CONCRETE PAD

NOTE 4: Concrete may require up to 3 days to cure.
NOTE 5: A 3/8" Masonry bit is required to install anchor bolts.

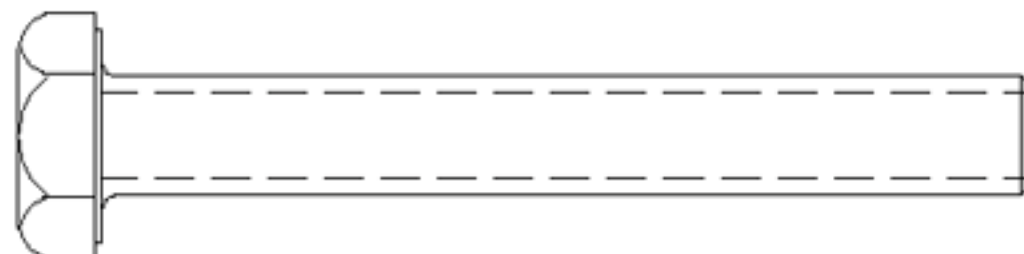
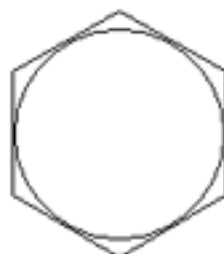


NOTE: Mount as shown above.

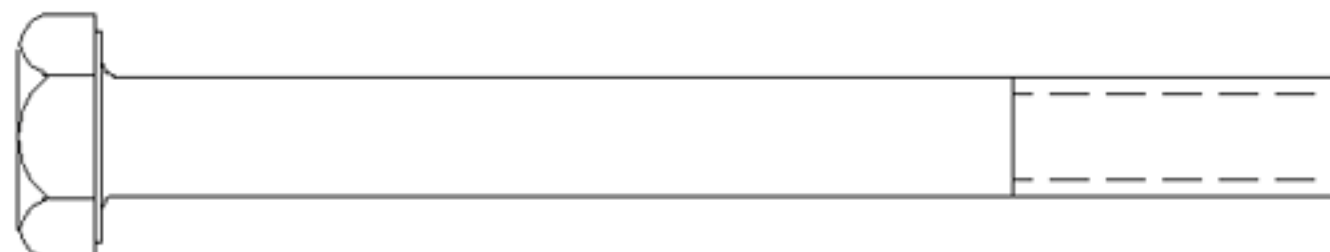
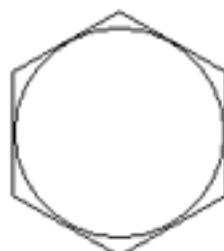
200001850
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



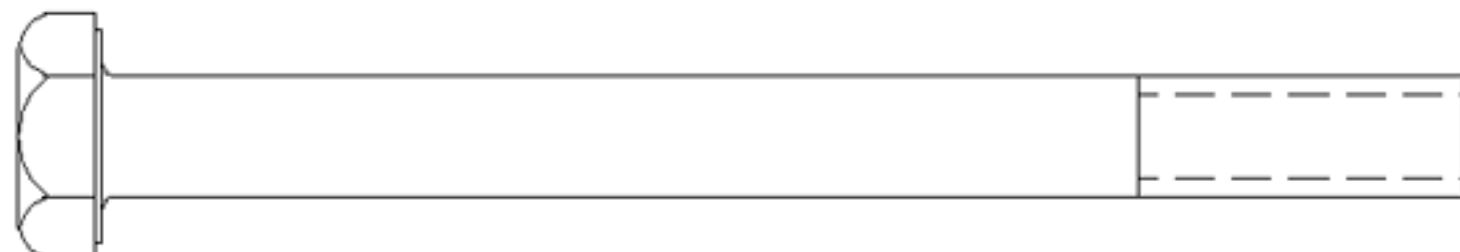
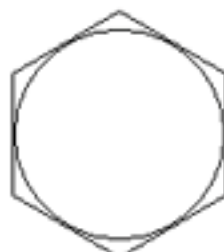
200001859
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



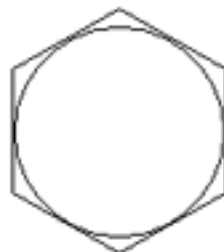
200001866
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



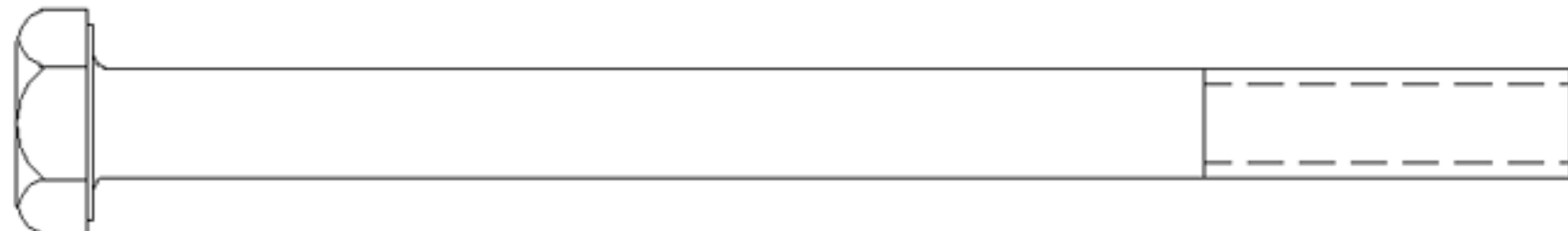
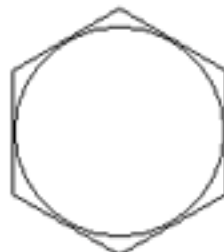
200001875
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



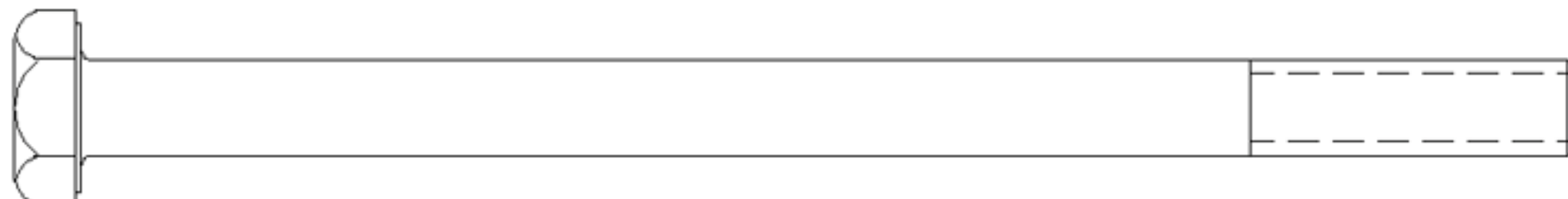
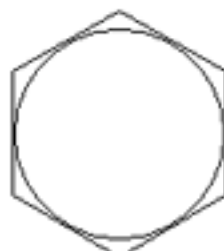
200001879
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

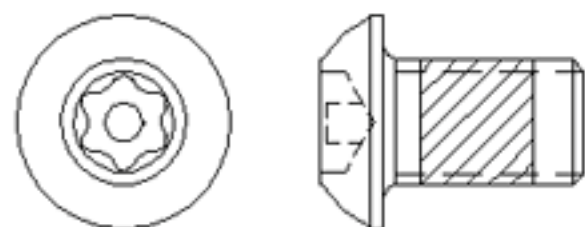


200001883
CAP SCREW HEX HEAD M10 x 1.50 x 130mm



200000792
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

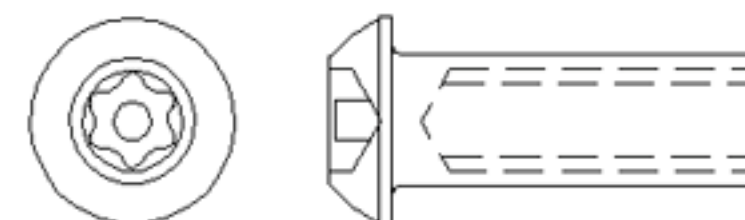




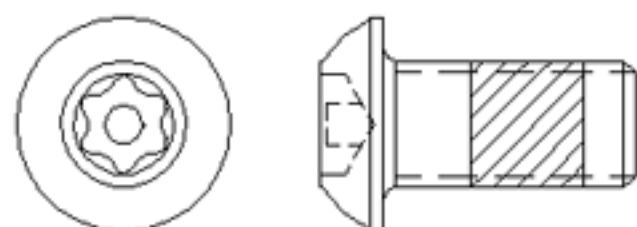
200002010
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



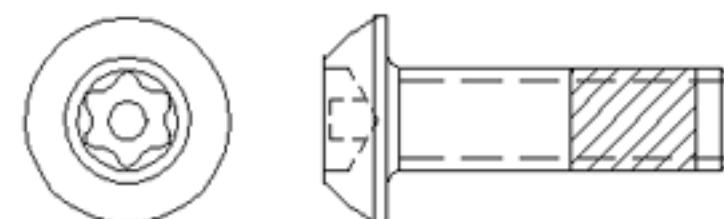
200002150
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



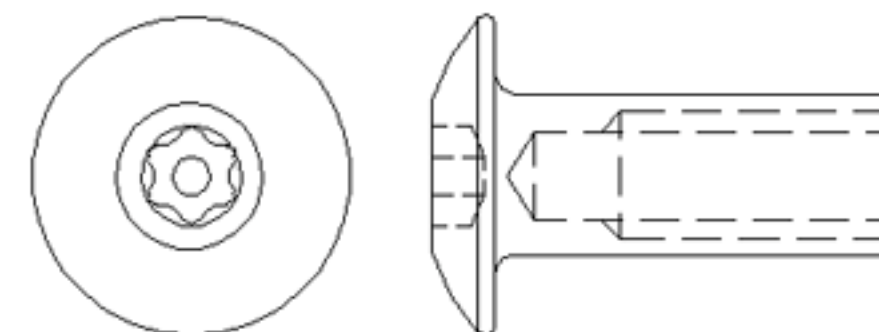
200002145
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



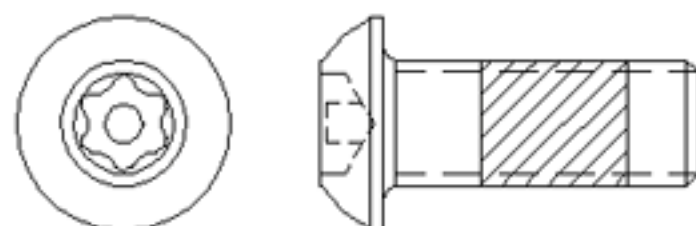
200002014
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



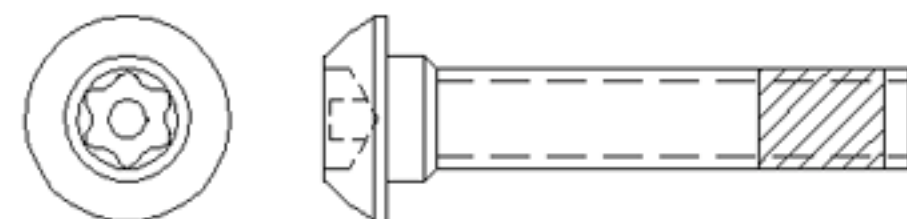
200002133
BOLT M8 x 1.25 MALE 27.5mm



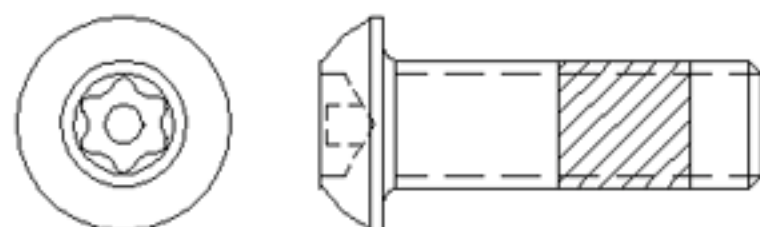
200001954
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



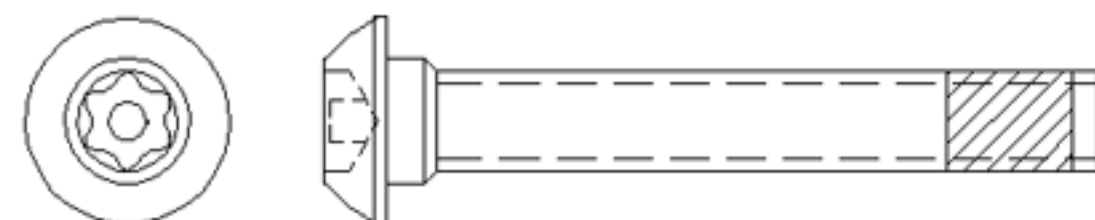
200002018
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



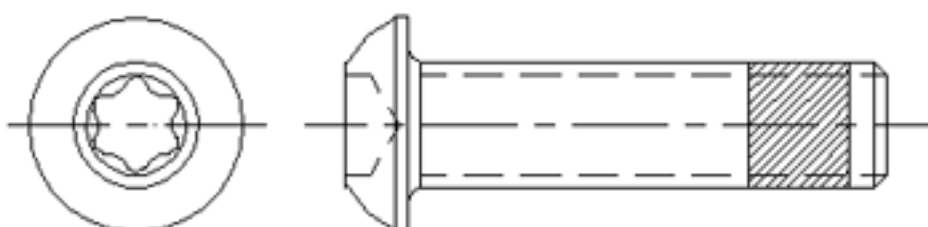
200002138
BOLT M8 x 1.25 MALE 42.5mm



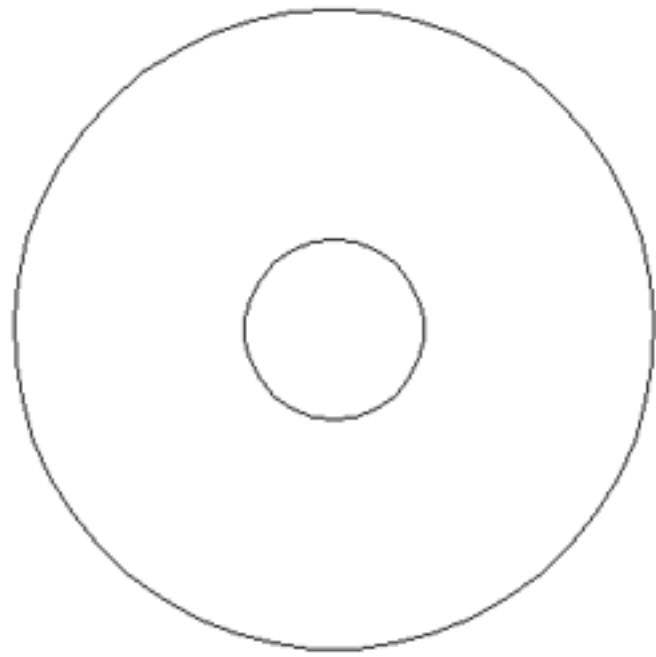
200002030
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm



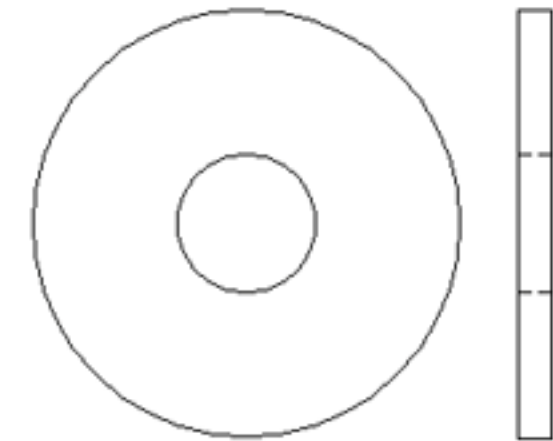
200002142
BOLT M8 x 1.25 MALE 57.5mm



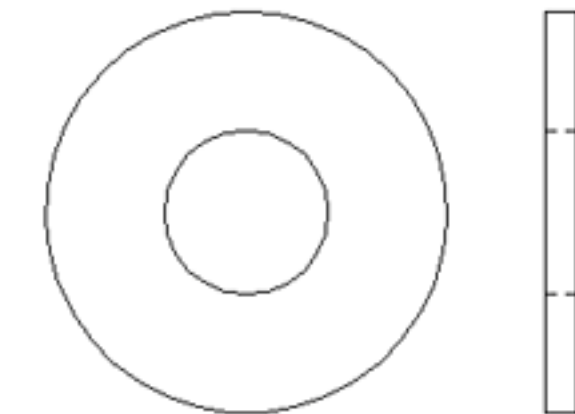
200097726
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm



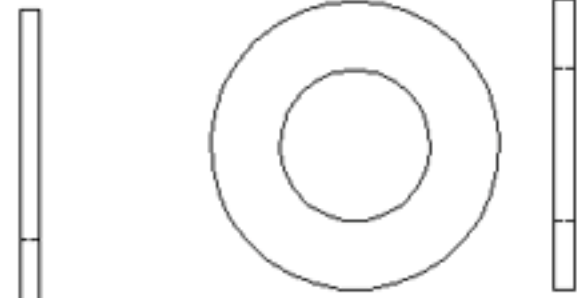
200002113
WASHER FLAT M12 (51 x 14.5 x 2mm)



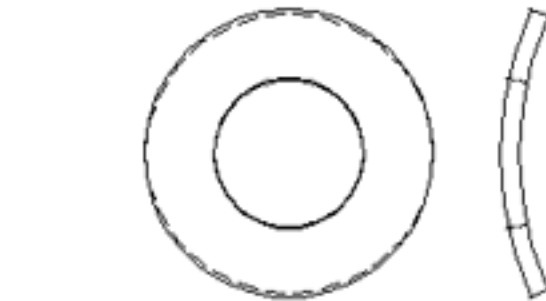
200002096
WASHER FLAT M10 340D x 11ID x 3 mm THK



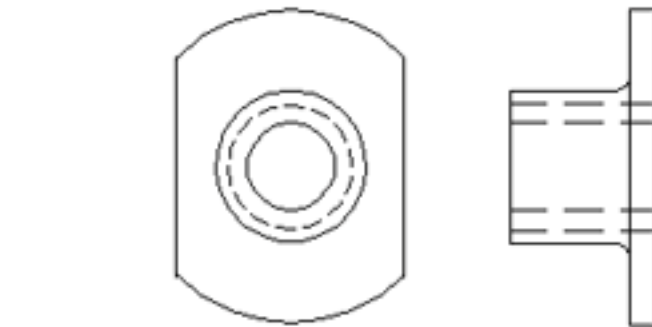
200002100
WASHER FLAT M11 320D x 13ID x 2 mm THK



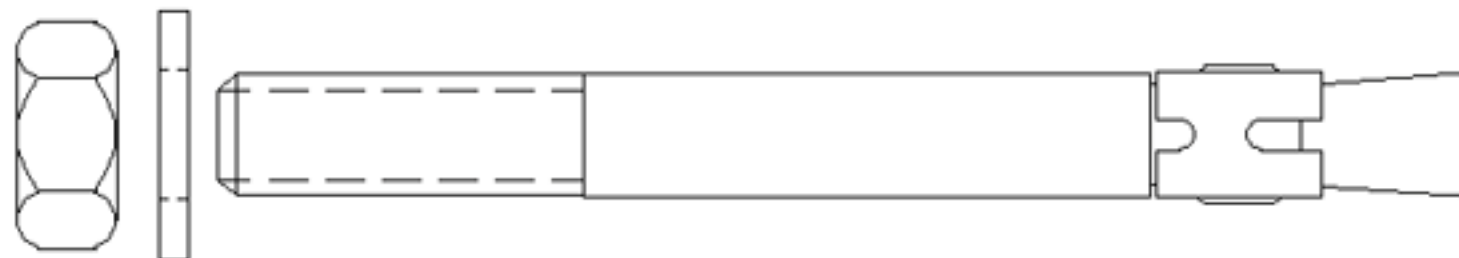
200002079
WASHER FLAT M11 23 x 12 X 1.6mm



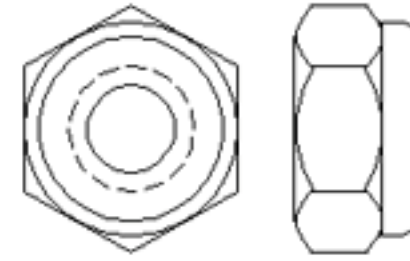
200008483
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



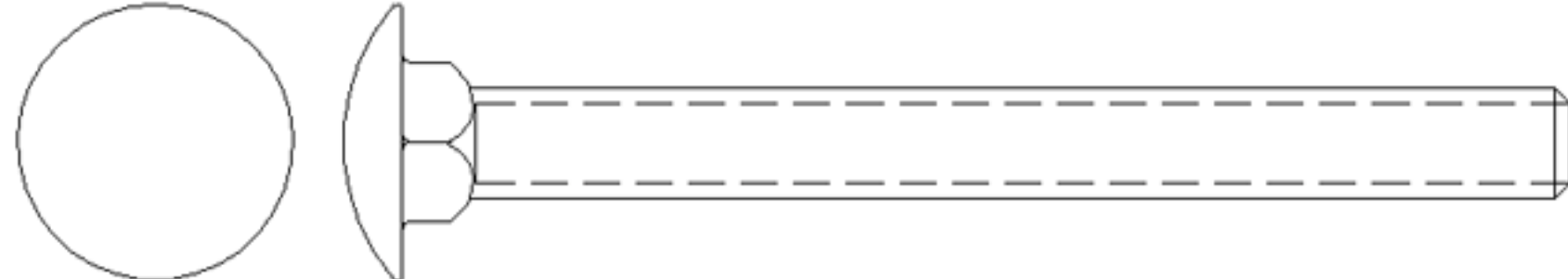
200001966
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



200001776
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



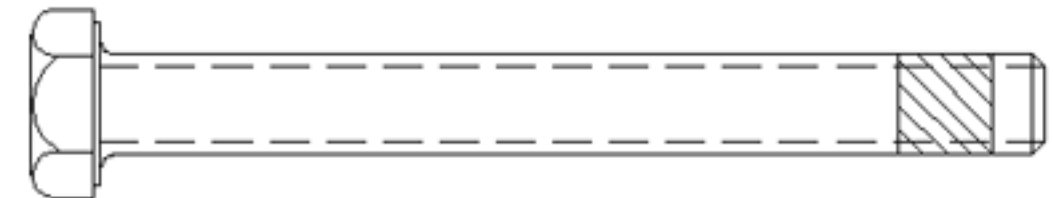
200001945
NUT LOCK HEX NYLON INSERTED M10 x 1.5



200001810
BOLT CARRIAGE M10 x 1.50 x 100mm



200001826
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



200001986
SCREW U-DRIVE ROUND HEAD M5 x 16mm

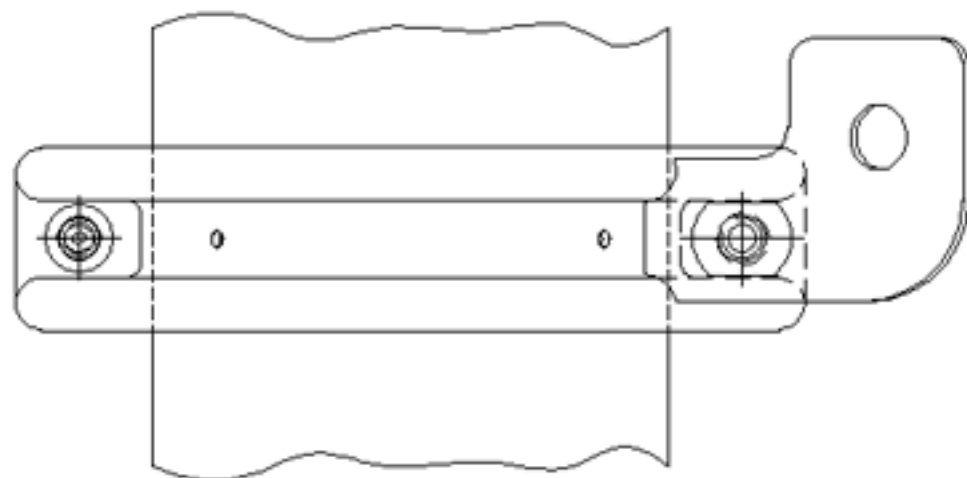


200001934
NUT LOCK HEX NYLON INSERTED M8 x 1.25

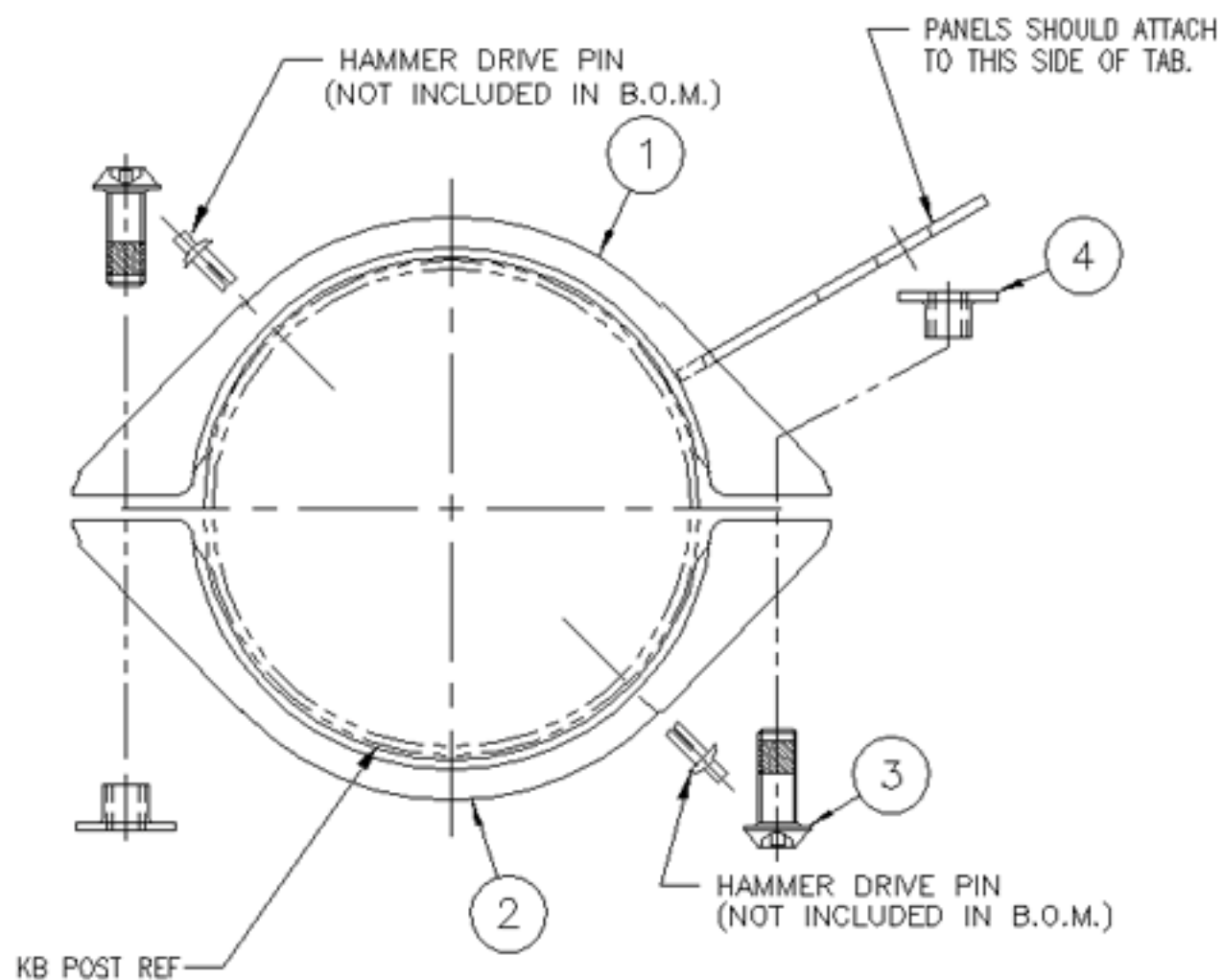
200002002
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



CLAMP HI-LO TAB F/KB



NOTE:
TAB WILL BE DIRECTED
UP (AS SHOWN) ON ONE
SIDE OF THE PANEL AND
DOWN ON THE OTHER
SIDE OF THE PANEL



[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

KB000009A

AUTHORIZED BY:

Raymond 03AUG99

CLAMP HI-LO TAB F/KB

200079200

CLAMP HI-LO TAB F/KB

Item	Dwg Ref	Description	Qty.
1	-	CLAMP HI-LO TAB F/ KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

Application

- FOR USE WHEN HIGH-LOW CLAMP CONFIGURATION IS NEEDED TO ATTACH PANELS.

Maintenance

- CHECK ALL HARDWARE
- TOUCH UP ANY MARRED PAINT SURFACE

Specifications

CLAMP

MATERIAL: STAMPED SHST
COLOR: AS SELECTED FROM STD. COLOR RANGE.
FINISH: ELECTROSTATICALLY APPLIED POLYESTER
DRY POWDER COAT

FASTENERS

FINISH: STAINLESS STEEL

Installation Instructions

1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO THE PANEL. COMPLETE THE PANEL CONNECTION AS SPECIFIED IN THE INDIVIDUAL PANEL INSTRUCTION.
3. LEVEL THE CLAMP ASSEMBLY AROUND THE POST AND TIGHTEN CLAMP HARDWARE.
4. AS A LAST STEP IN THE PLAYGROUND INSTALLATION, INSTALL HAMMER DRIVE PINS. LOCATE ONE OF THE EXISTING SMALL HOLES IN A CLAMP HALF. (EITHER HOLE CAN BE USED, USE THE MOST ACCESSIBLE.) THIS WILL BE THE DRILLING SITE FOR THE HAMMER DRIVE PIN. DRILL A 5mm (3/16") DIA. HOLE INTO THE POST. INSERT THE HAMMER DRIVE PIN INTO THE HOLE. TAP THE CENTER CORE PIN INWARD UNTIL IT IS FLUSH WITH THE OUTER PIN SURFACE. BE CAREFUL NOT TO MAR THE PAINTED SURFACES. REPEAT ON THE OTHER CLAMP HALF. HAMMER DRIVE PINS ARE SHIPPED SEPERATELY FROM CLAMP HARDWARE.

PANEL OR WING CLAMP

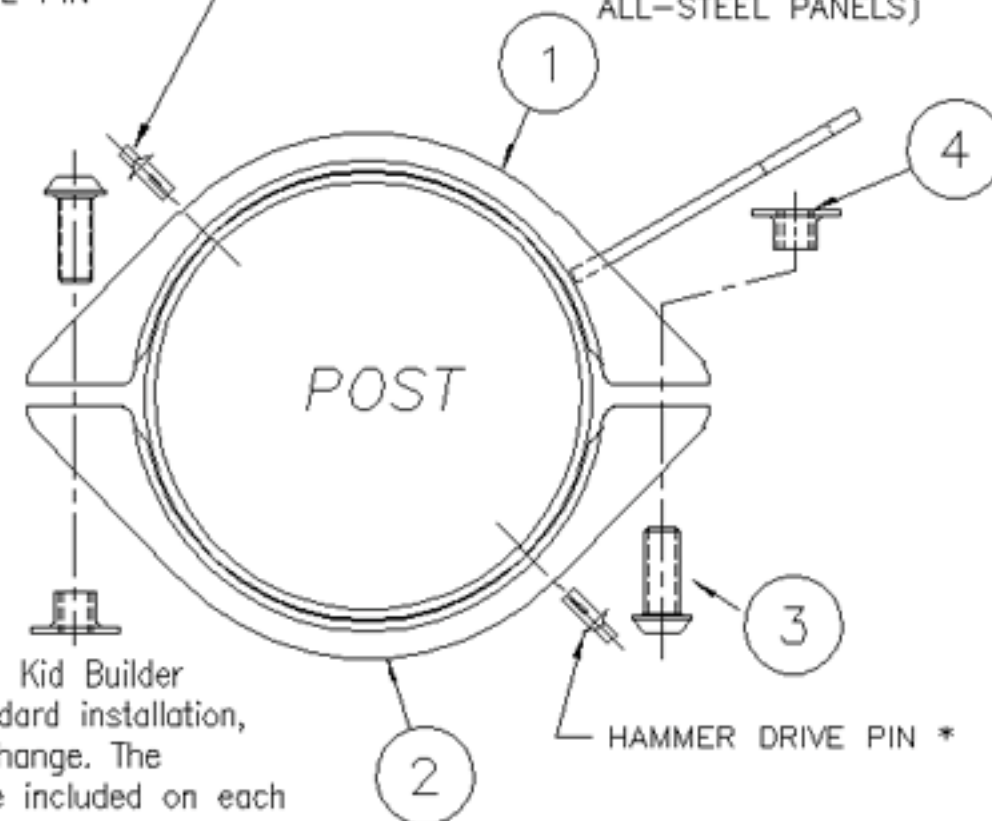
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR- 1	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP


REF: WING CLAMP
(TO BE USED ON KB PLUS
ALL-STEEL PANELS)

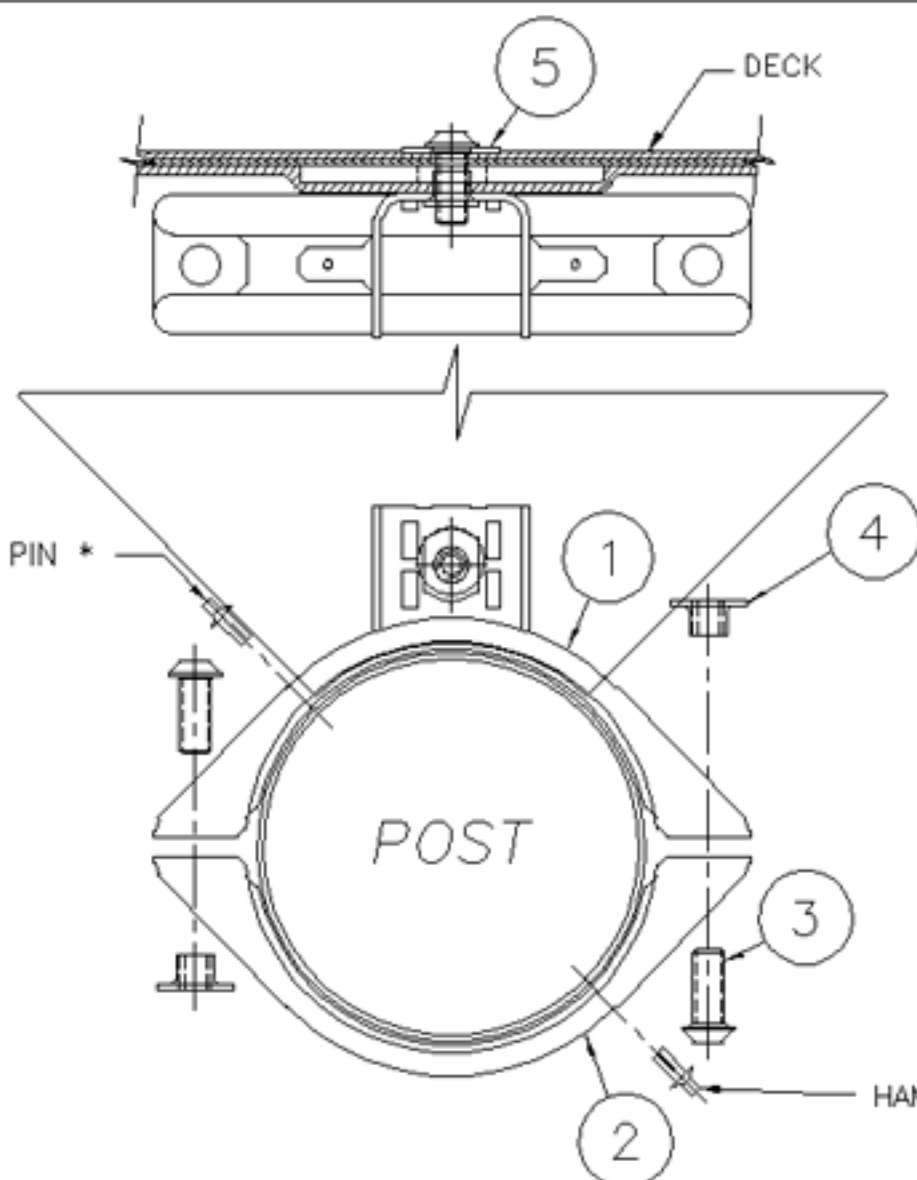
HAMMER DRIVE PIN *



HAMMER DRIVE PIN *

DECK CLAMP

ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/NEW DECK ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	3
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
5	200002100	WASHER FLAT M11 320D X 13ID X 2 MM THK	1



HAMMER DRIVE PIN *

The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change. The hardware used to attach a Panel Clamp to a panel will be included on each component page.

1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.

2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.

3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

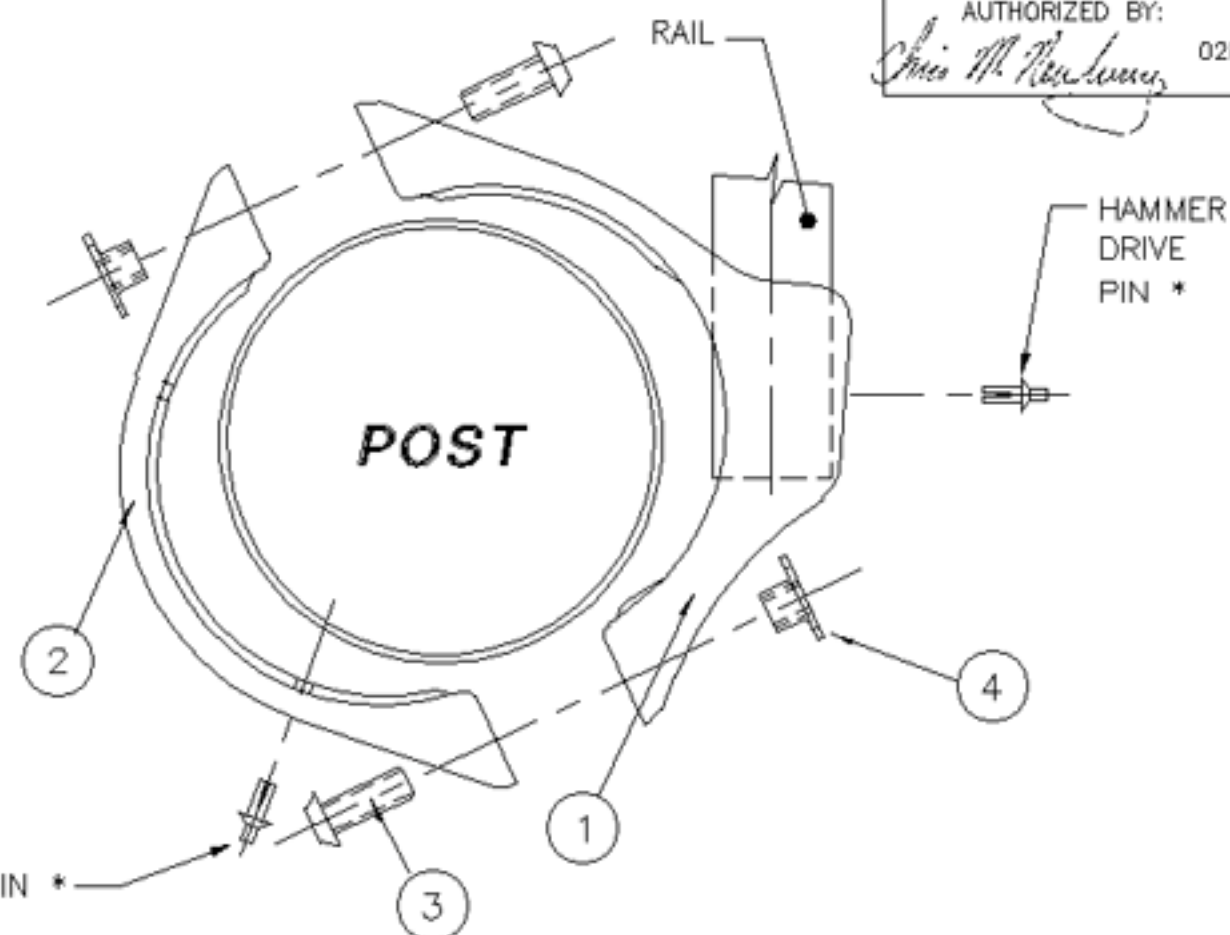
* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

AUTHORIZED BY:
Chris M. Newberry
02MAR01

The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change.

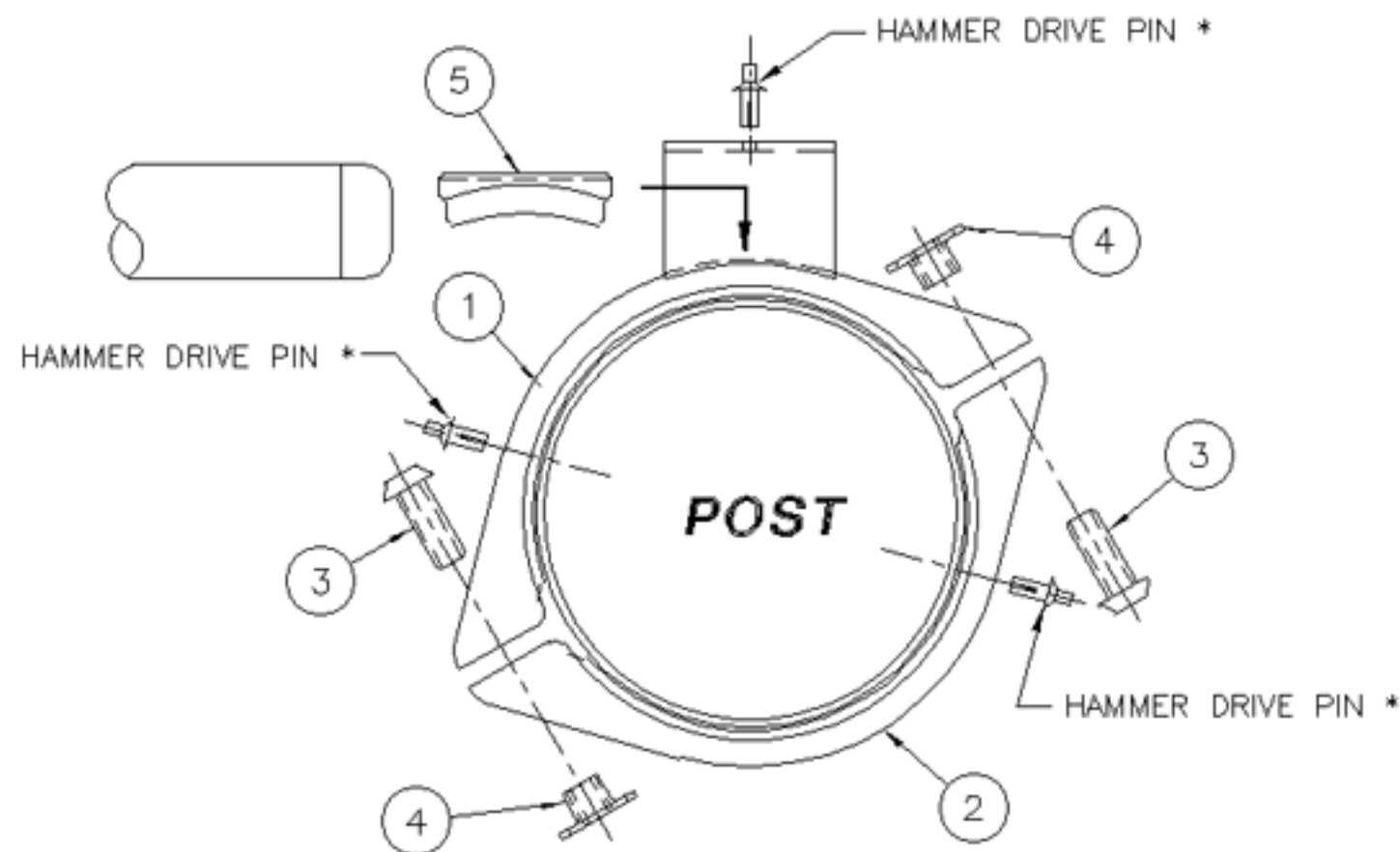
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.



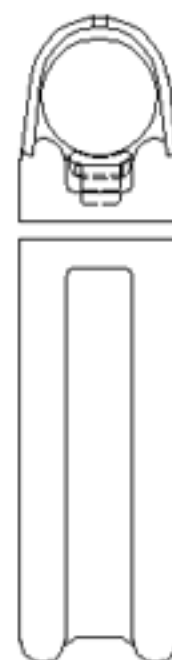
30 DEG. RAIL CLAMP W/ WEDGE

ITEM	DRG REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KB CLAMP F/SLOT	1



HOODED RAIL CLAMP

ITEM	DRG. REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/HOODED RAIL ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH. BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2



INSTR. F/INFINITY FLEX SINGLE FREESTAND

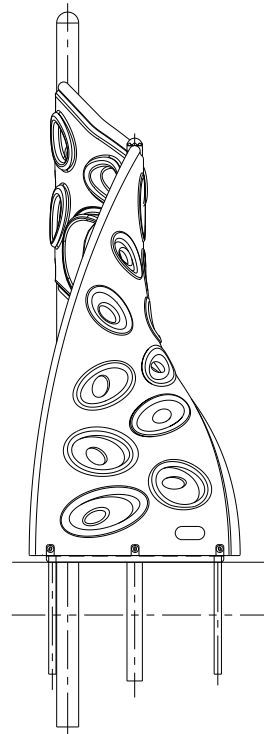
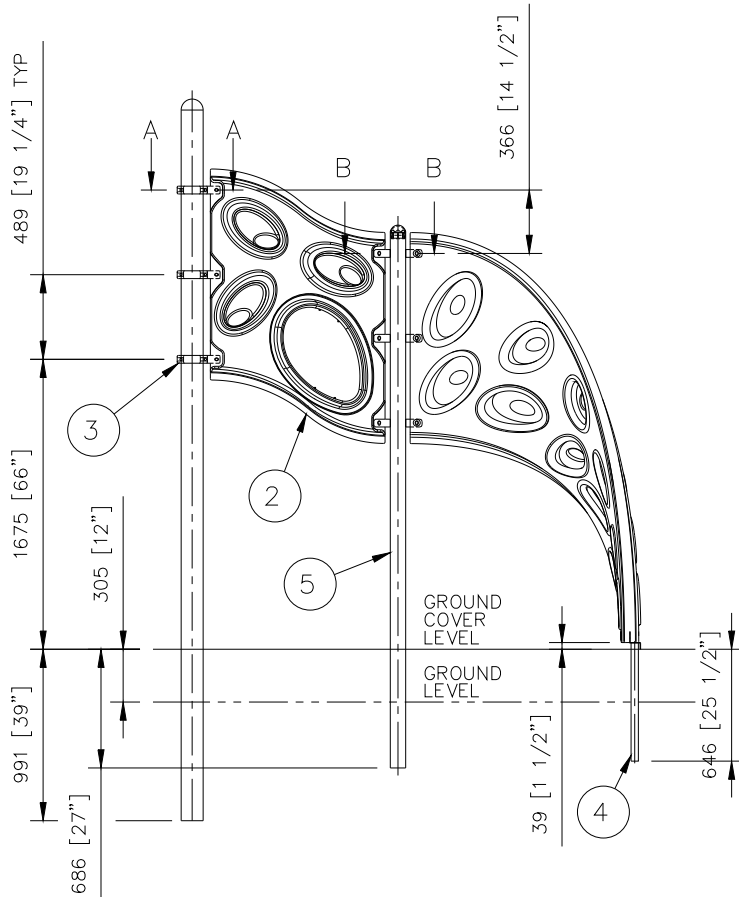
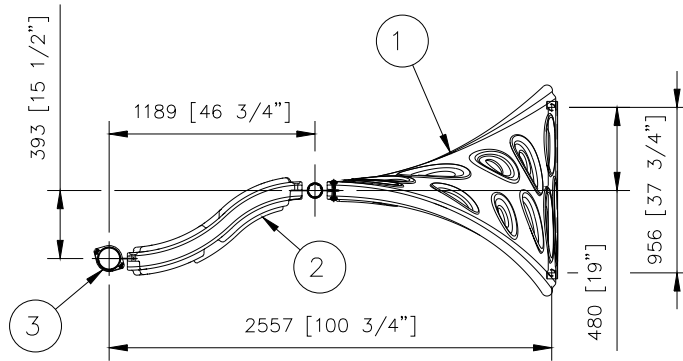
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Sheet 1 of 2

AUTHORIZED BY: 03APR09

Chris M. Anderson



INFINITY FLEX FREE STANDING SGL 200202141

Item	Code	Description	Qty.
1	-	CLIMBER INFINITY	1
2	-	INFINITY PAD	1
3	-	KB PANEL CLAMP ASSEMBLY	3
4	-	FOOTING ING F/INFINITY CLIMBER BRN	1
5	-	TUBE 6 TAB 3358MM INFINITY ING TAN	1

HDWR BAG F/INFINITY FLEX FREESTANDING SGL 200180557

Item	Code	Description	Qty.
6	200001826	CAP SCRW HEX HD M8 X 1.25 X 75MM W/PATCH	6
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	12
8	200002138	BOLT M8 X 1.25 MALE 42.5 MM	6
9	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	24
10	200002100	WASHER FLAT M11 320D X 13ID X 2 MM THK	18
11	200002311	CAP HDWR COVER	24
12	200002340	CAP HDWR BASE	24

Installation Instructions

1. Prepare Footings.

2. Loosely attach Footing Support (item 4) to bottom end (the end with color Logo) of the Climber (item 1) as shown in Section B-B.

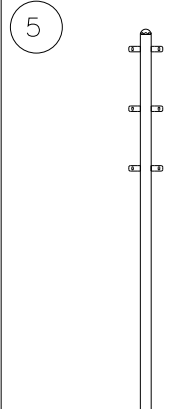
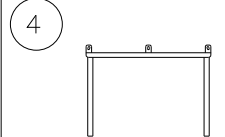
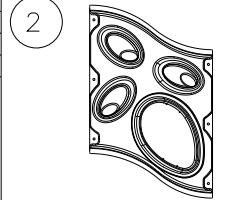
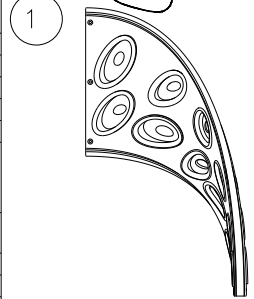
3. Place Climber in footing and loosely attach to the center post (item 5) as shown in Section B-B.

4. Loosely attach Panel Clamps to upper end of the Pad climber as shown in Section A-A. Note: This component can be either installed going up or down, as long as sufficient fall absorption material is available and another component is available to provide a continuation of the play path.

5. Loosely attach Pad climber to the center post and to the KB post. Refer to front of manual for clamp installation detail.

6. Check posts for plumb, check height of the clamps and tighten all hardware. Install hardware caps and clamp hammer drive pins.

7. Complete footings and install resilient surfacing.



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

INSTR. F/INFINITY FLEX SINGLE FREESTAND

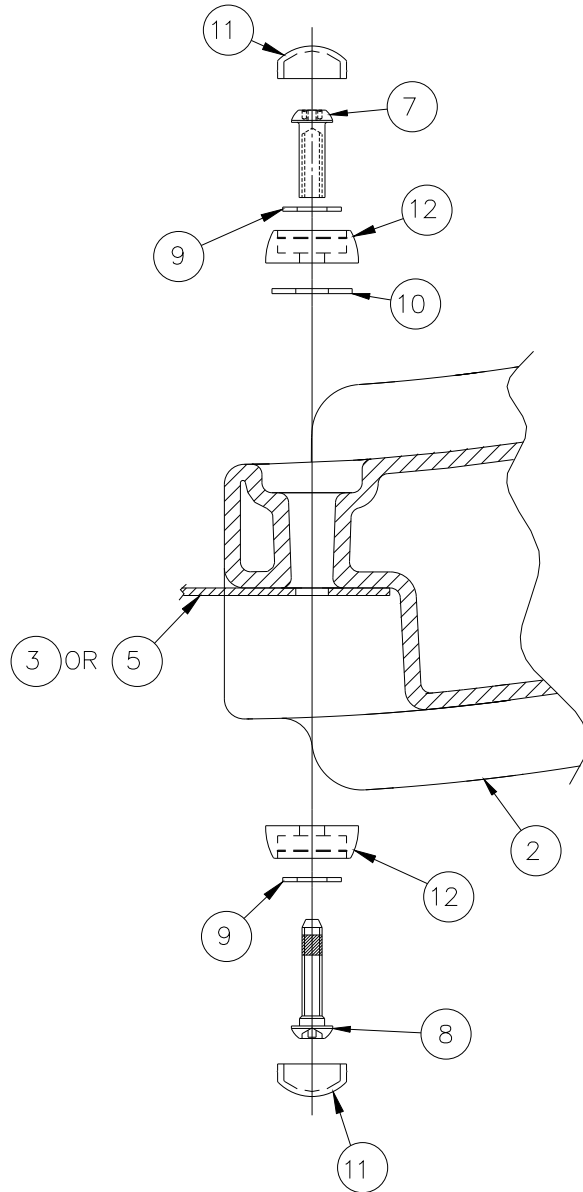
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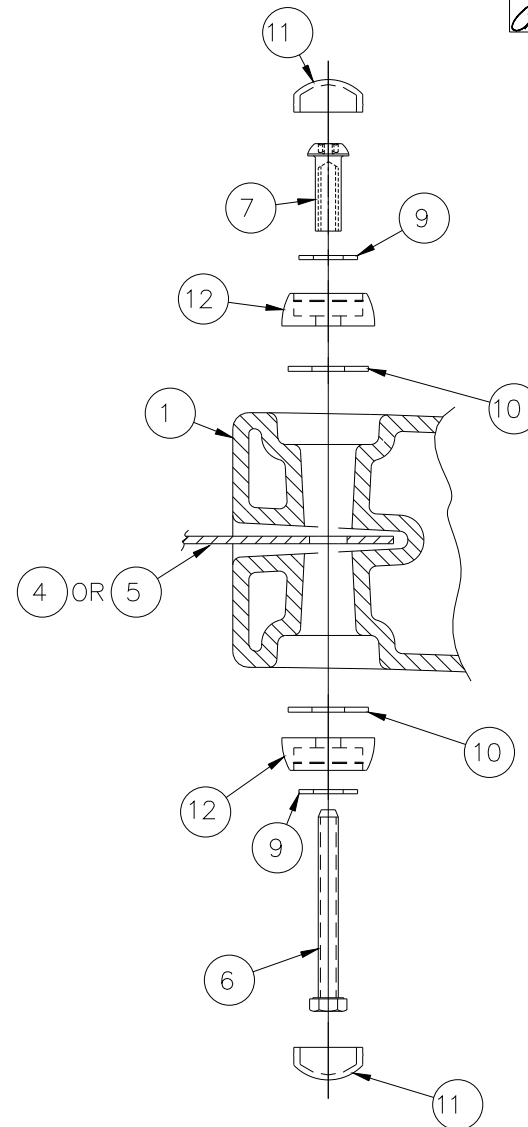
Sheet 2 of 2

AUTHORIZED BY: 03APR09

Chris M. [Signature]



SECTION A-A
1:2
TYP 6 PL



SECTION B-B
1:2
TYP 6 PL

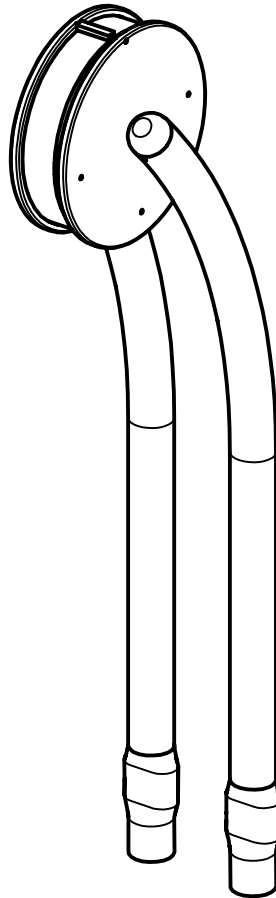
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



Installation Instructions

Models ZZXX0661, ZZXX0661S,
450-4, 450-4BD and 200203440

Concerto™ Medium Cabasa
In-ground and Surface Mount Models



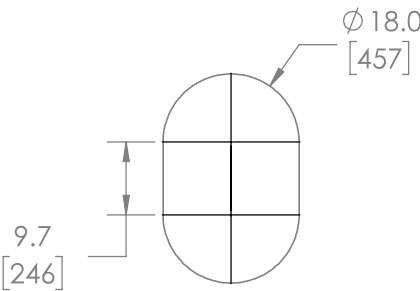
Assembly View (representative model)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1.5 man-hours (In-ground)
Installation Time:	0.5 man-hours (Surface Mount)
Concrete Required:	0.26 cubic yard (0,20 cubic meters)
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

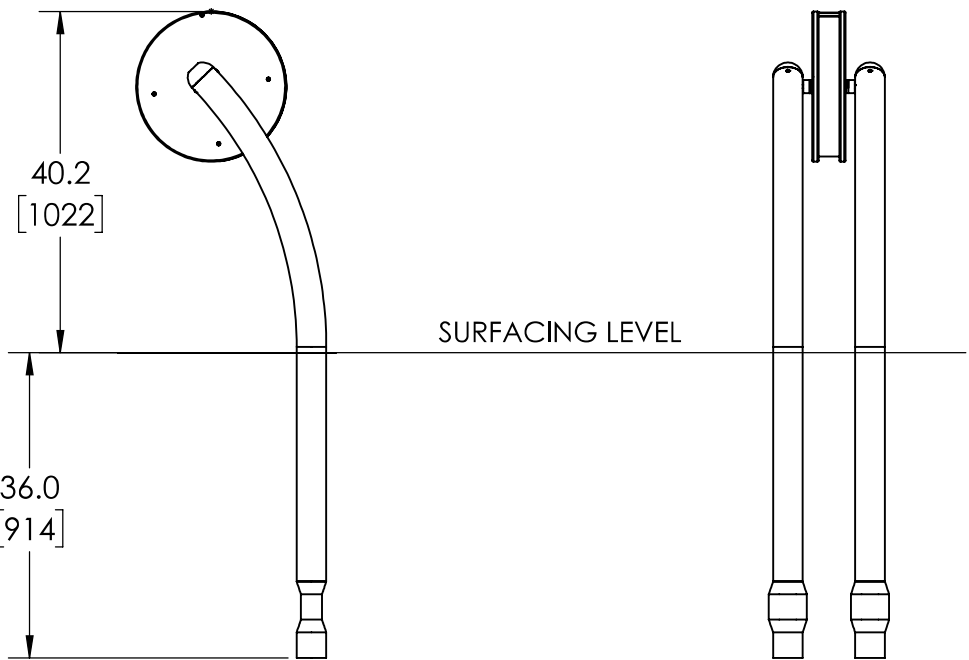
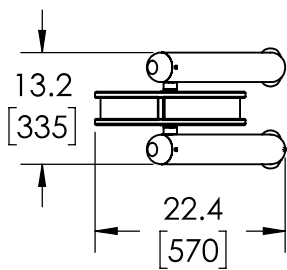
Installation Instructions

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



Footing Diagram

Top View

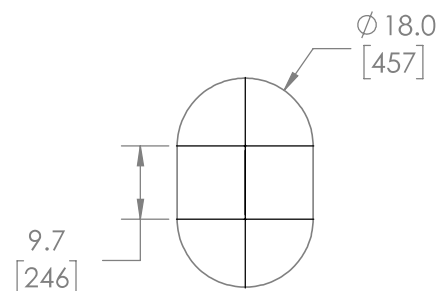


Elevation Views
ZZXX0661, 450-4 and 200203440

Installation Instructions

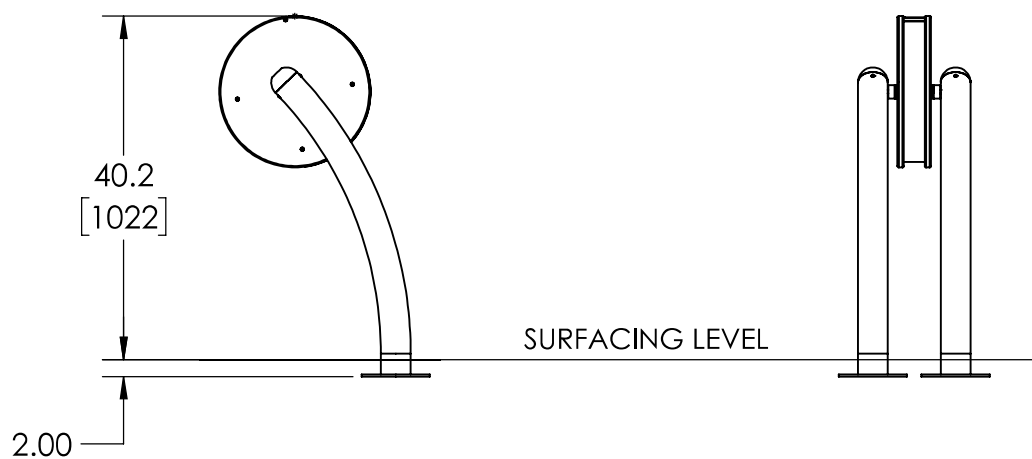
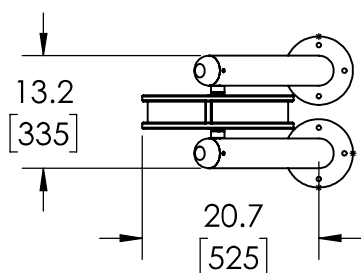
KEY

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



Footing Diagram

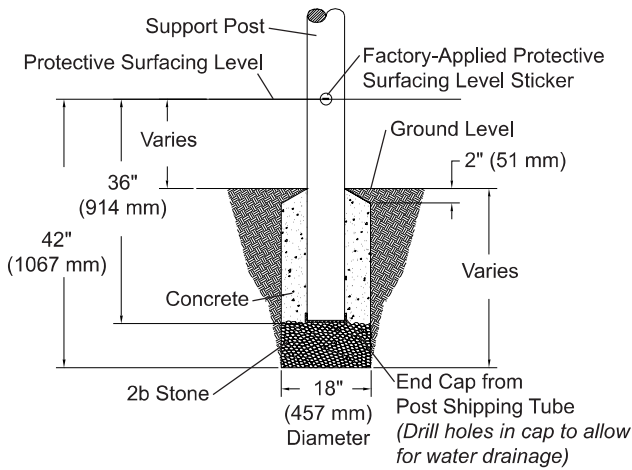
Top View



Elevation Views
ZZXX0661S, 450-4BD and 200203440

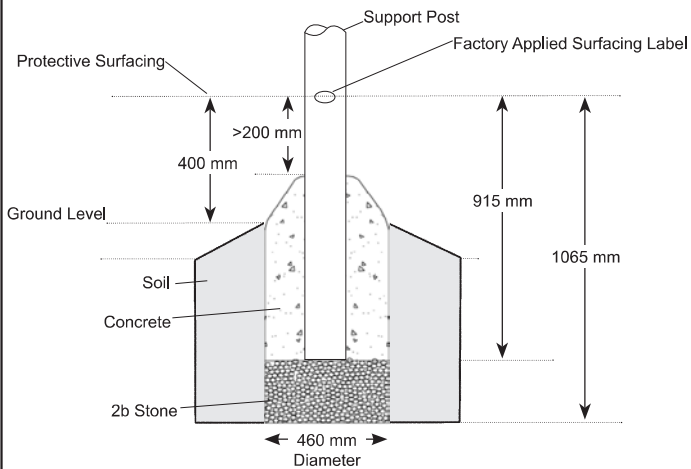
Installation Instructions

IN GROUND FOOTING DIAGRAMS: ASTM / CSA



Support Post Footing Detail (ASTM/CSA)

IN GROUND FOOTING DIAGRAMS: EN (EUROPE ONLY)



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).

- 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 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 this 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:

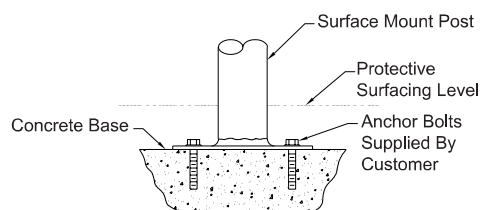
- If local soil is loose or unstable, a larger footing may be required.
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered 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 DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

- **Concrete Pier:** A pier type surface mount installation is defined as a footing hole that has been excavated and poured with concrete. Concrete should be flush to the top surface of excavated hole. Equipment would then be secured to this concrete footing that has been properly cured.
- **Concrete Slab:** Existing concrete slab type installation is defined as equipment being secured to an existing concrete pad or slab. As an example, this pad could be in the form of an existing concrete parking lot.

FOOTING NOTES: PIER TYPE SURFACE MOUNT






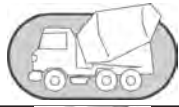

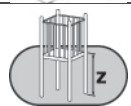
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing 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.

FOOTING NOTES: EXISTING CONCRETE SLAB TYPE 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.
- Support posts and all attaching decks and play components must be plumb and level.

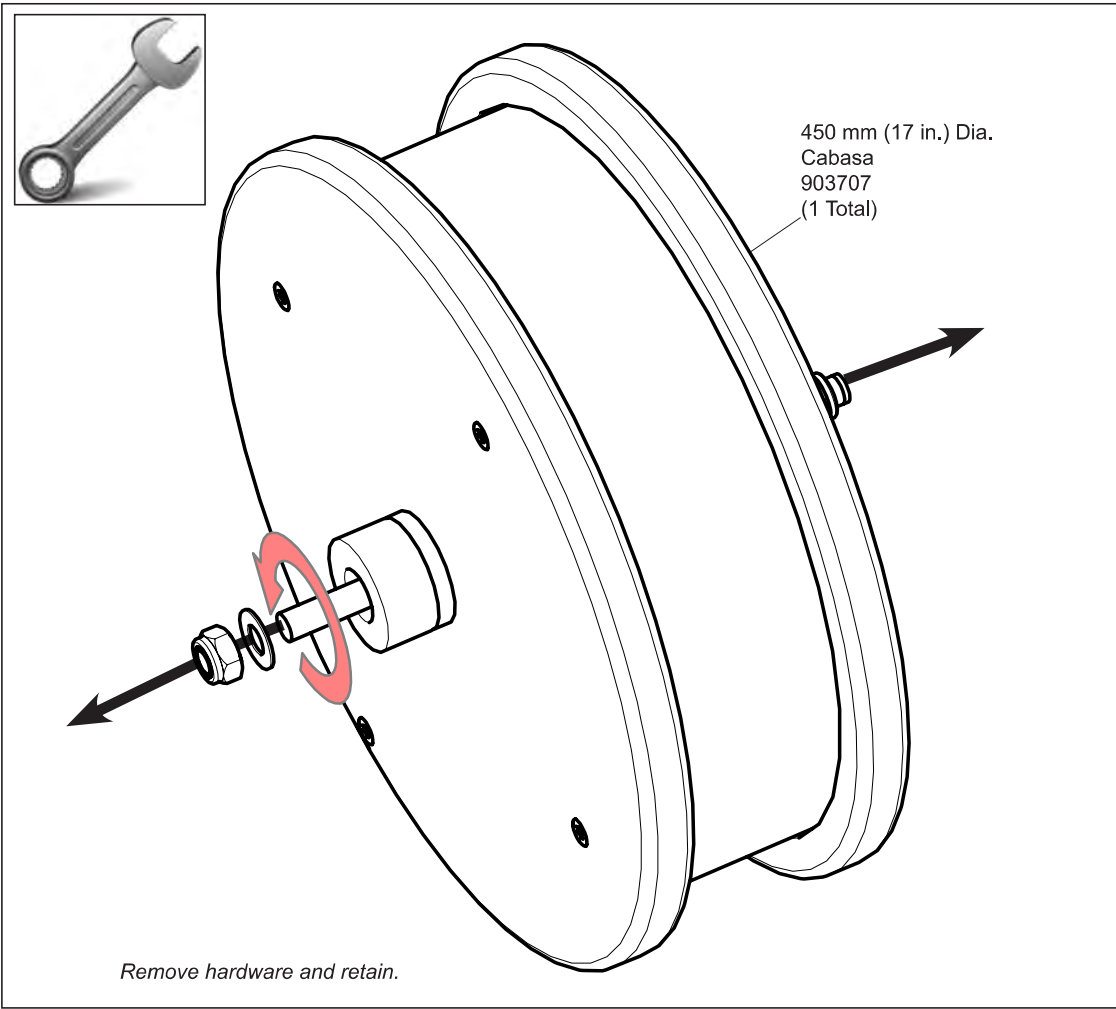
IMPORTANT NOTE: Surface mount hardware is not supplied. The customer is responsible for the concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

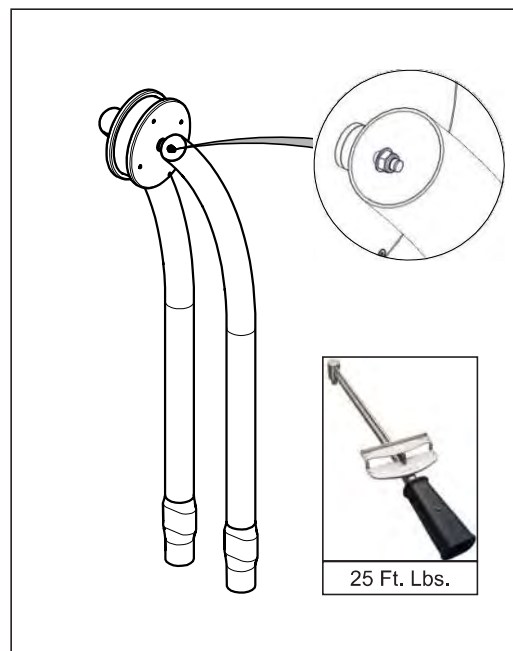
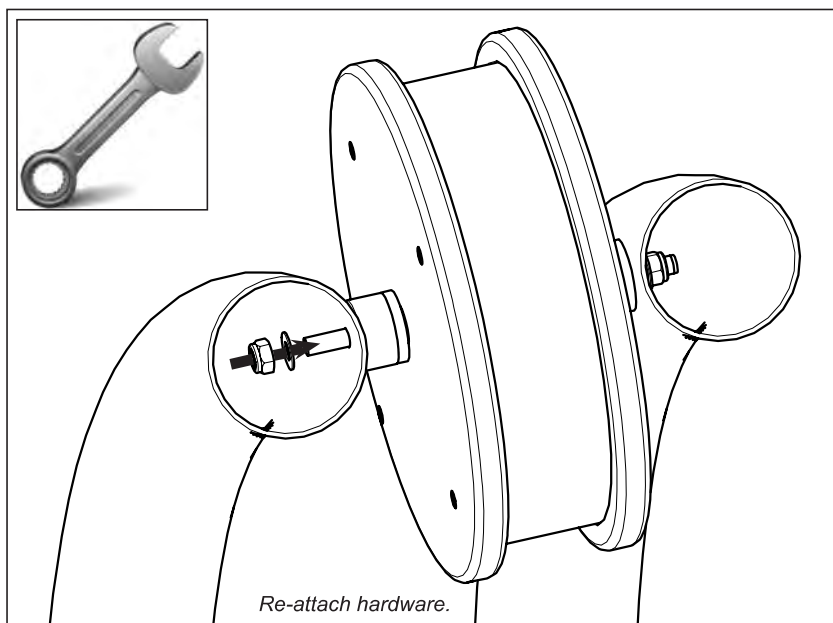
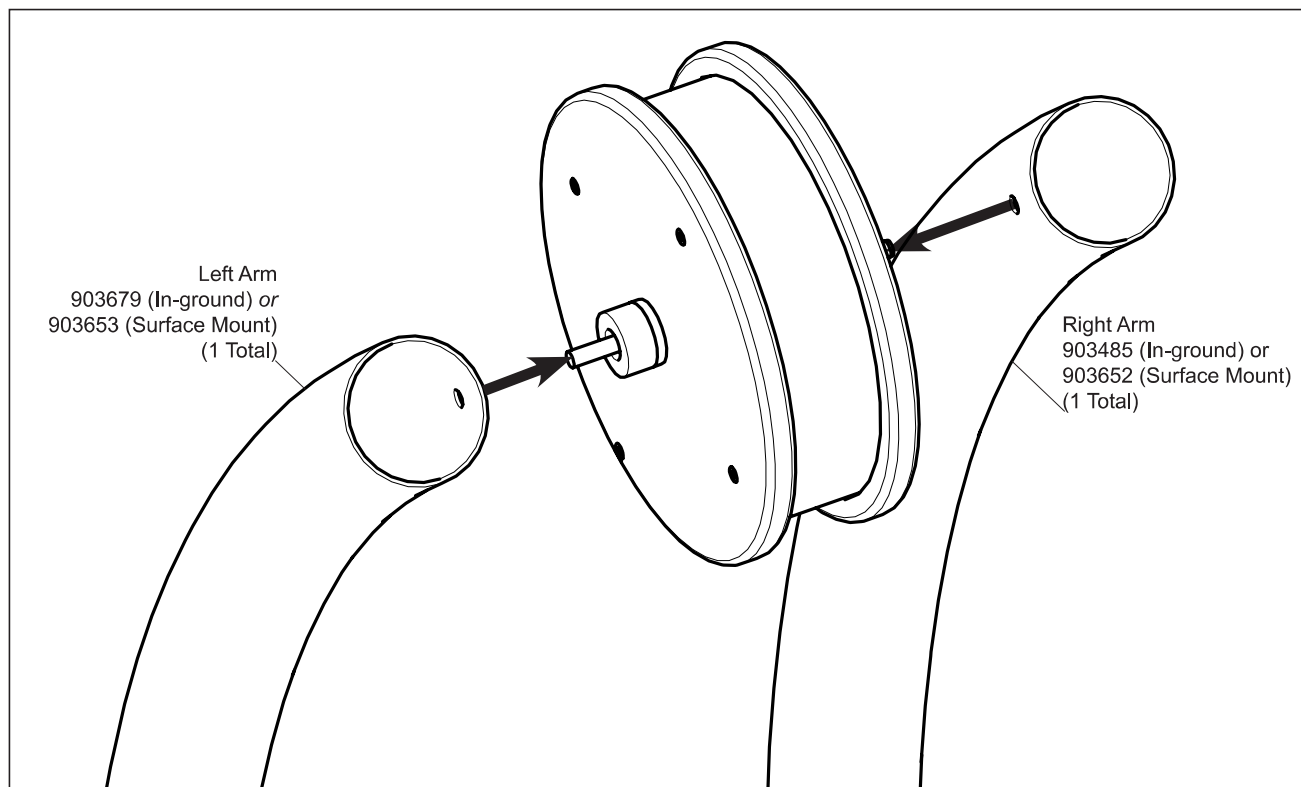
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions:

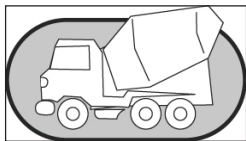
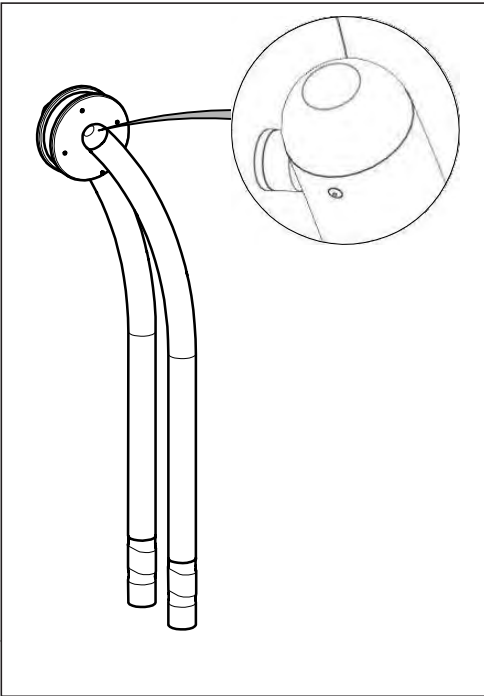
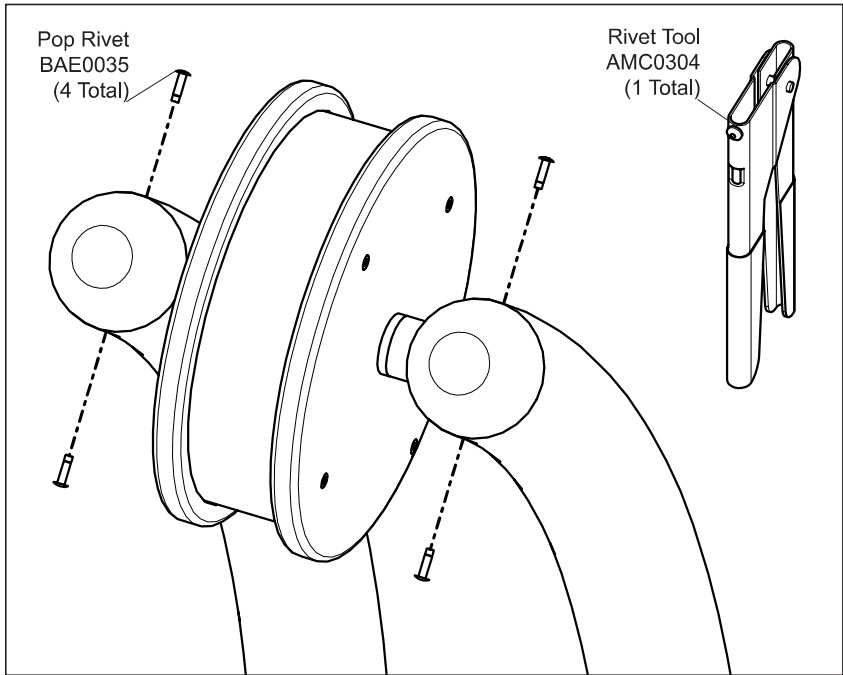
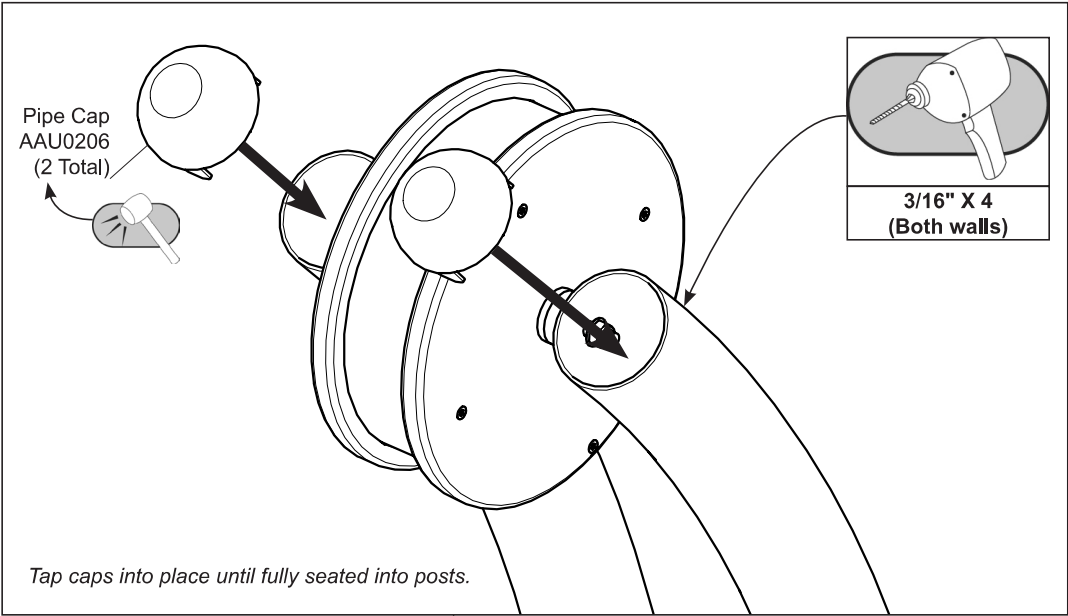
- 1. Prepare footings as shown on pages 4 and 5 of this document.
- 2. Assemble equipment as shown.
- 3. Place equipment in, or on, its footings and block and brace.
- 4. Plumb and level equipment and tighten all hardware.



Installation Instructions



Installation Instructions



ZZXX0661, 450-4 AND 200203440 - CONCERTO MEDIUM CABASA IN-GROUND

PART NO.	DESCRIPTION	QTY.
903485	FAB METAL - 3.50" DIA x 69.68" x 15.85" - RIGHT	1
903679	FAB METAL - 3.50" DIA x 69.68" x 15.85" - LEFT	1
903707	CONCERTO - SPIN CABASAS 450mm DIA	1
AAU0206	CAP - 3-1/2" RIVETED CAP	2
BAE0035	RIVET - .1875" x .735" SS POP	4
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1

ZZXX0661S, 450-4BD AND 200203440 - CONCERTO MEDIUM CABASA SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
903652	POST - 35.68" x 18.10" x 8.00" - RIGHT	1
903653	POST - 35.68" x 18.10" x 8.00" - LEFT	1
903707	CONCERTO - SPIN CABASAS 450mm DIA	1
AAU0206	CAP - 3-1/2" RIVETED CAP	2
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
BAE0035	RIVET - .1875" x .735" SS POP	4

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intentionally left blank.

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.

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

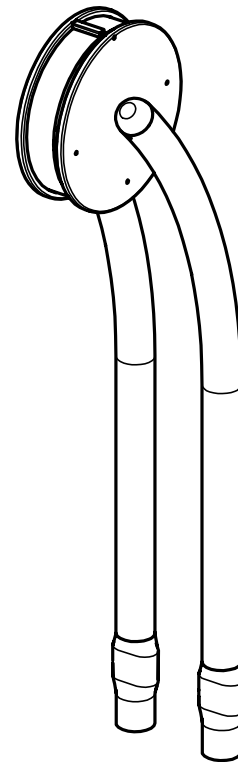
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Customer Service for a replacement part.

Equipment Maintenance

Models ZZXX0661, ZZXX0661S,
450-4, 450-4BD and 200203440

Concerto Medium Cabasa

In-ground and Surface Mount



Assembly View (*representative model*)

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.

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

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			

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

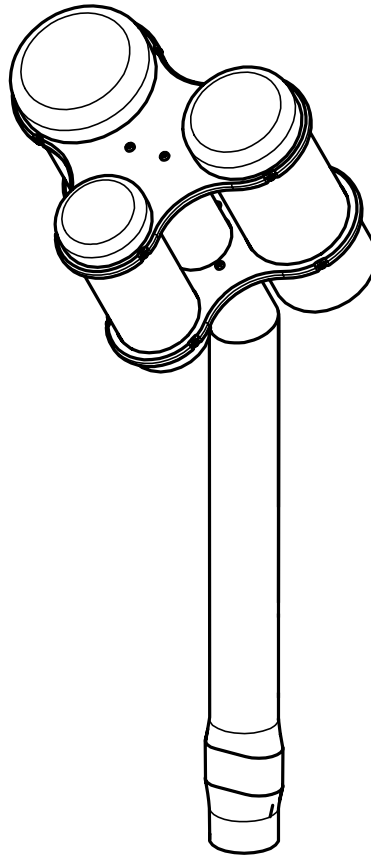
Repairer: Name (Please Print) _____ Signature: _____ Date: ____/____/____



Installation Instructions

Models ZZXX0664, ZZXX0664S,
450-7, 450-7BD and 200203443

Concerto™ Three Congas
In-ground and Surface Mount Models



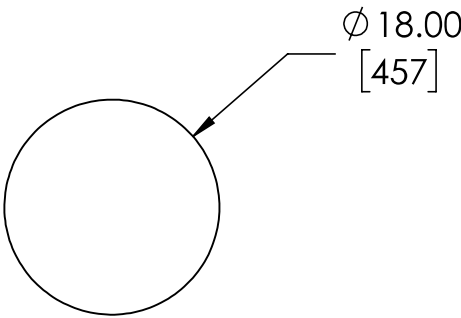
Assembly View (representative model)

Installation Preparation

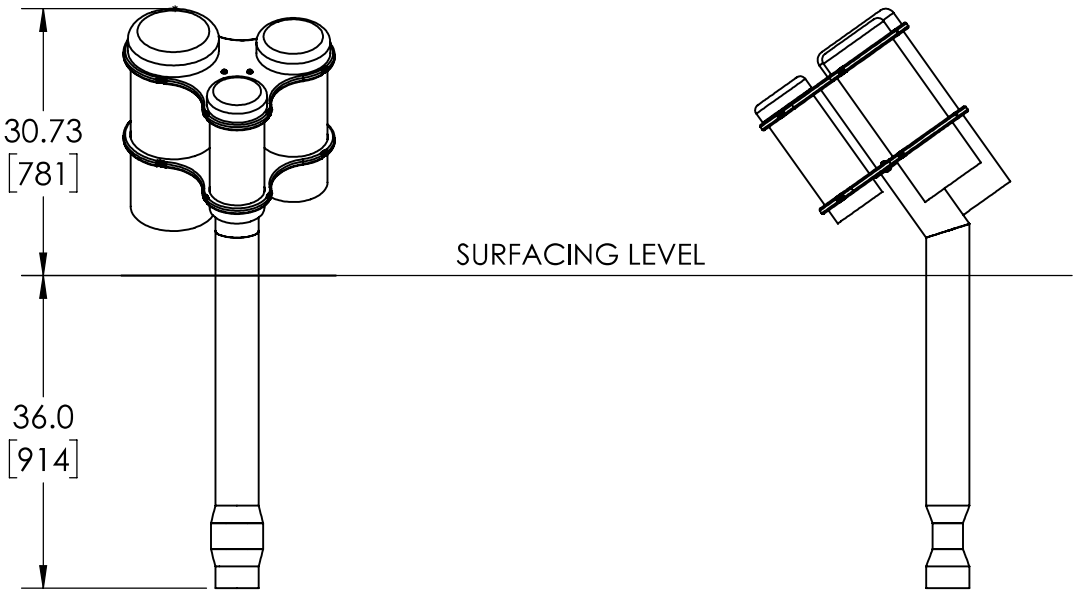
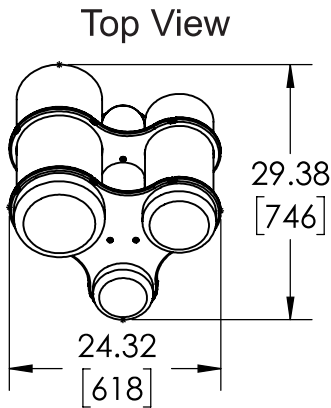
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour (In-ground)
Installation Time: 0.5 man-hours (Surface Mount)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

Installation Instructions

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



Footing Diagram

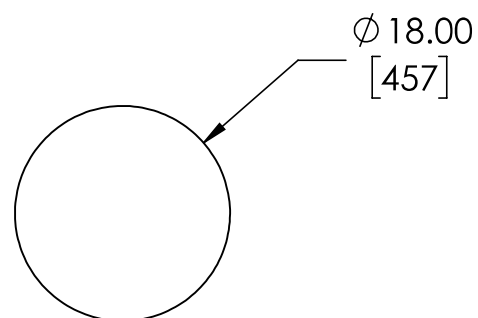


Elevation Views
ZZXX0664, 450-7 and 200203443

Installation Instructions

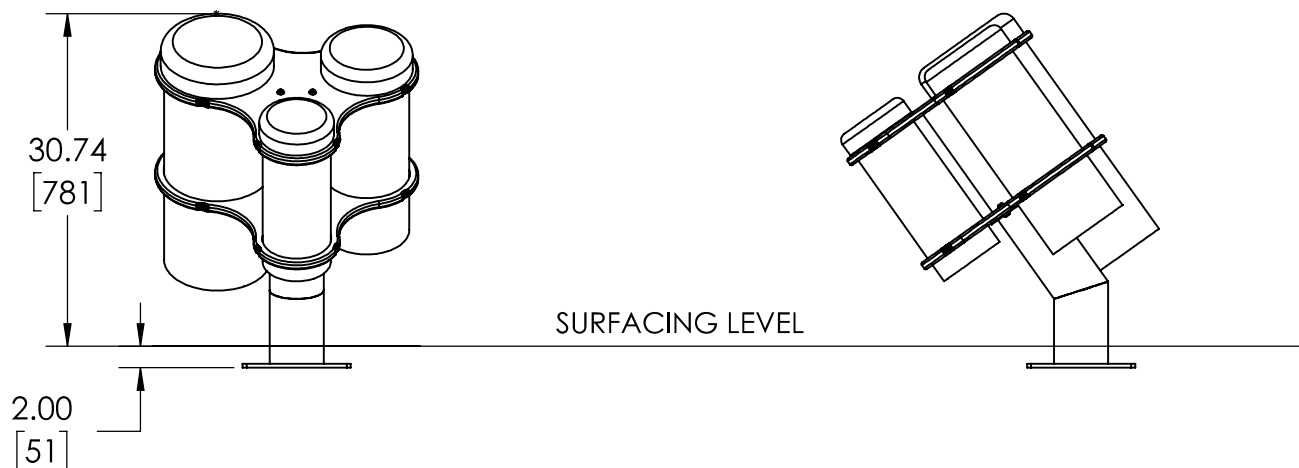
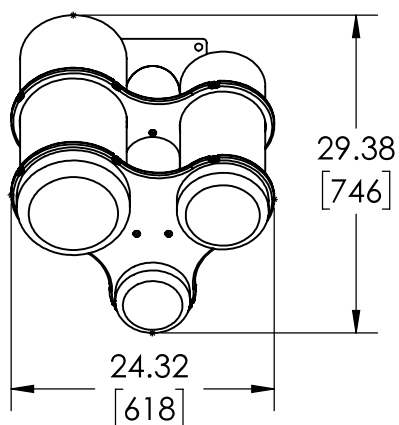
KEY

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



Footing Diagram

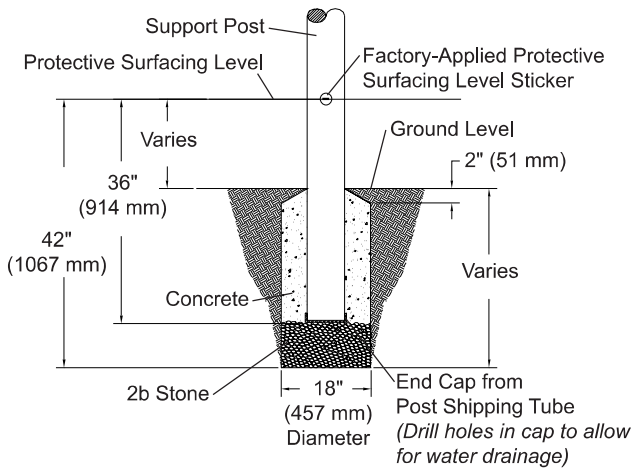
Top View



Elevation Views
ZZXX0664S, 450-7BD and 200203443

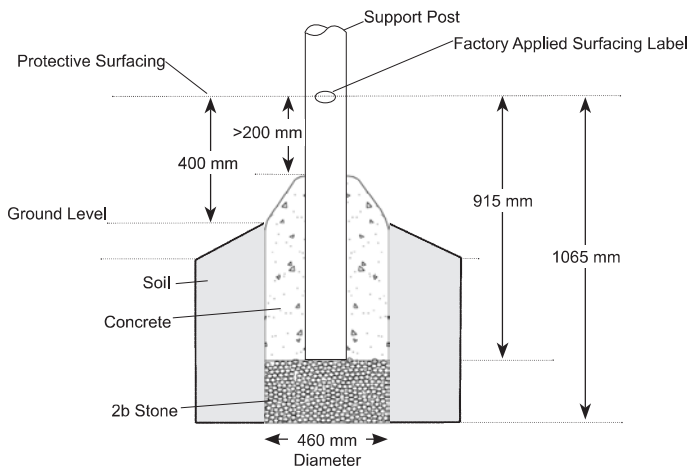
Installation Instructions

IN GROUND FOOTING DIAGRAMS: ASTM / CSA



Support Post Footing Detail (ASTM/CSA)

IN GROUND FOOTING DIAGRAMS: EN (EUROPE ONLY)



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).

- 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 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 this 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:

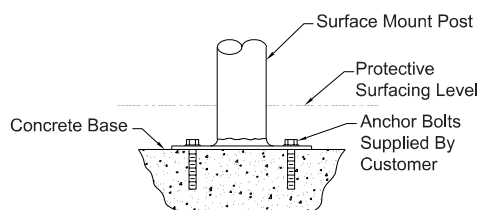
- If local soil is loose or unstable, a larger footing may be required.
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered 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 DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

- **Concrete Pier:** A pier type surface mount installation is defined as a footing hole that has been excavated and poured with concrete. Concrete should be flush to the top surface of excavated hole. Equipment would then be secured to this concrete footing that has been properly cured.
- **Concrete Slab:** Existing concrete slab type installation is defined as equipment being secured to an existing concrete pad or slab. As an example, this pad could be in the form of an existing concrete parking lot.

FOOTING NOTES: PIER TYPE SURFACE MOUNT



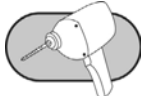


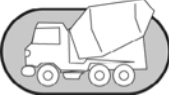

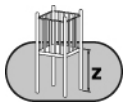
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing 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.

FOOTING NOTES: EXISTING CONCRETE SLAB TYPE SURFACE MOUNT

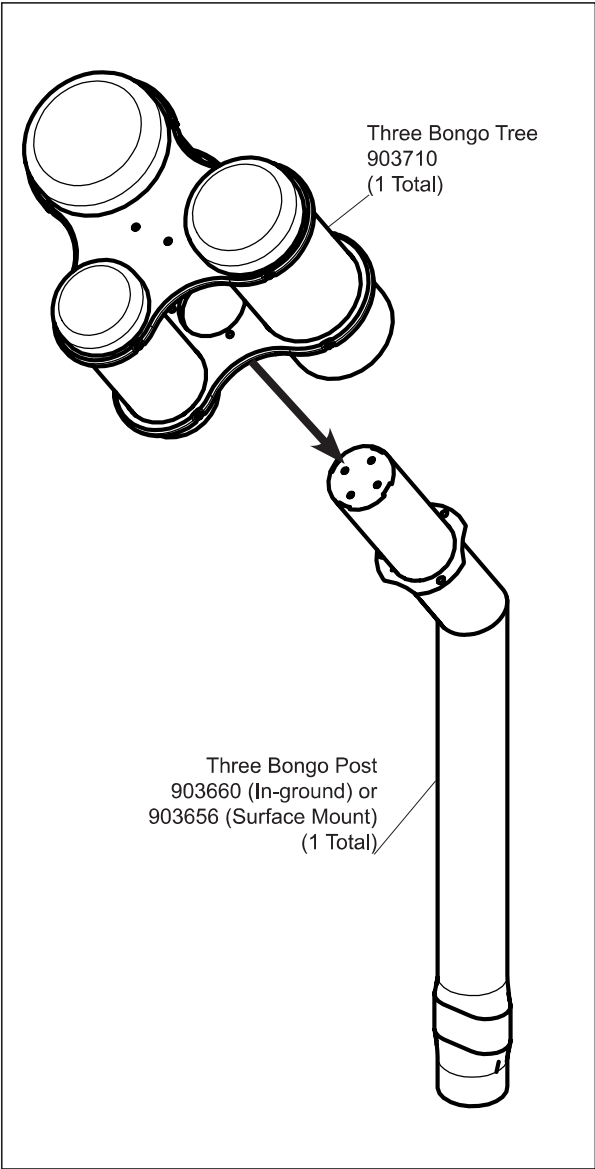
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- Support posts and all attaching decks and play components must be plumb and level.

IMPORTANT NOTE: Surface mount hardware is not supplied. The customer is responsible for the concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

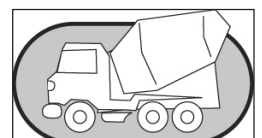
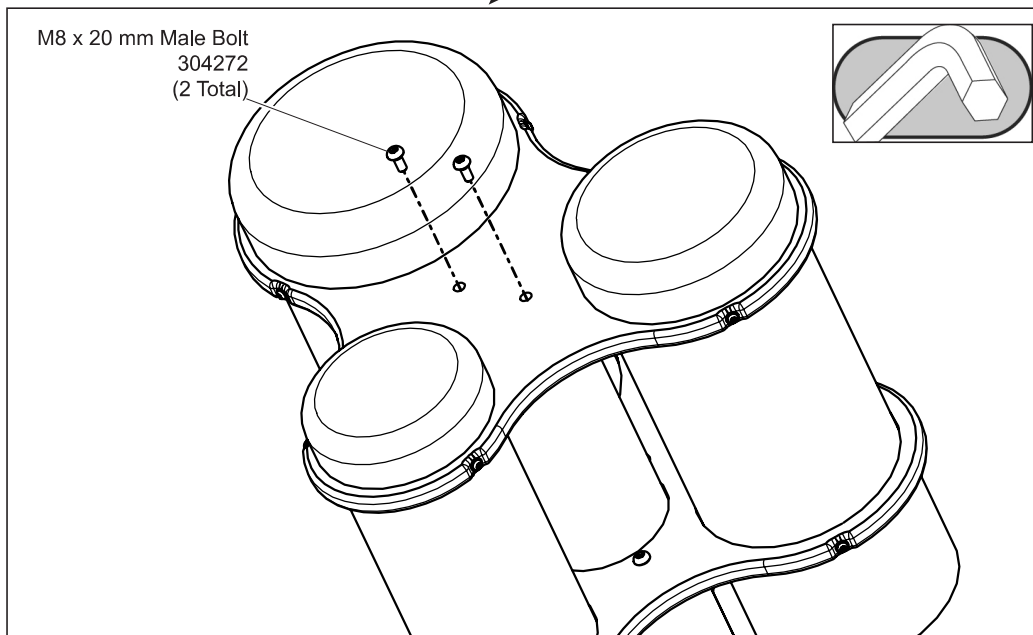
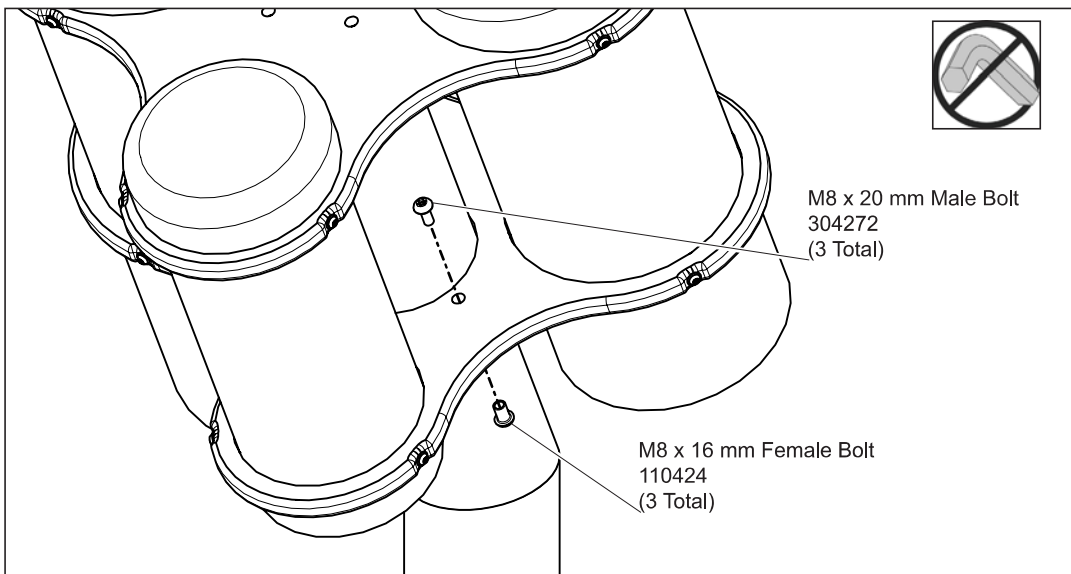
Installation Instructions

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:**
1. Prepare footings as shown on pages 4 and 5 of this document.
 2. Assemble equipment as shown.
 3. Place equipment in, or on, its footings and block and brace.
 4. Plumb and level equipment and tighten all hardware.



Installation Instructions



ZZXX0664, 450-7 AND 200203443 - CONCERTO THREE CONGAS IN-GROUND

PART NO.	DESCRIPTION	QTY.
903660	POST - 3 BONGO	1
903710	3 BONGO TREE	1
304272	BOLT M8 x 1.25 MALE 20 mm	5
110424	BOLT M8 x 1.25 FEMALE 10.3 x 16 mm	3
BAE0922*	TOOL - TT 45 L WRENCH	2

ZZXX0664S, 450-7BD AND 200203443 - CONCERTO THREE CONGAS SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
903656	POST - 3 BONGO SM	1
903710	3 BONGO TREE	1
304272	BOLT M8 x 1.25 MALE 20 mm	5
110424	BOLT M8 x 1.25 FEMALE 10.3 x 16 mm	3
BAE0922*	TOOL - TT 45 L WRENCH	2

*Some models may include part number 200001167 in place of the BAE0922.

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

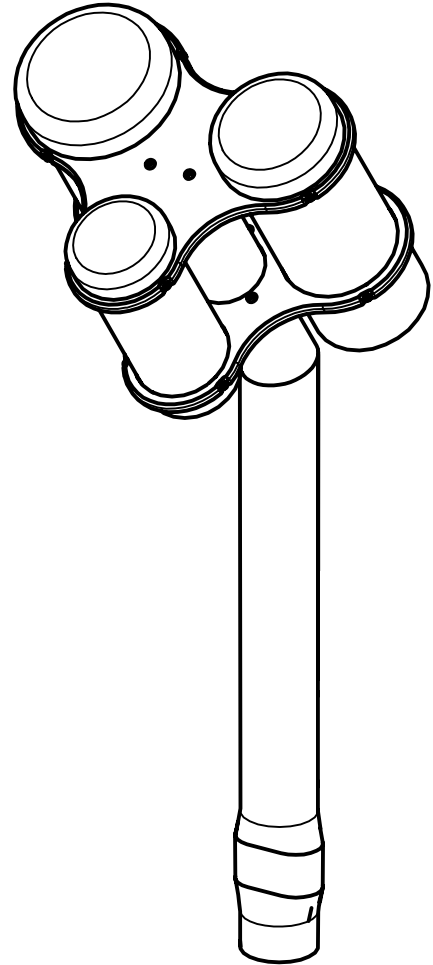
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Customer Service for a replacement part.

Equipment Maintenance

Models ZZXX0664, ZZXX0664S,
450-7, 450-7BD and 200203443

Concerto Three Congas

In-ground and Surface Mount



Assembly View (*representative model*)

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.

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

INSPECTION CHECKLIST

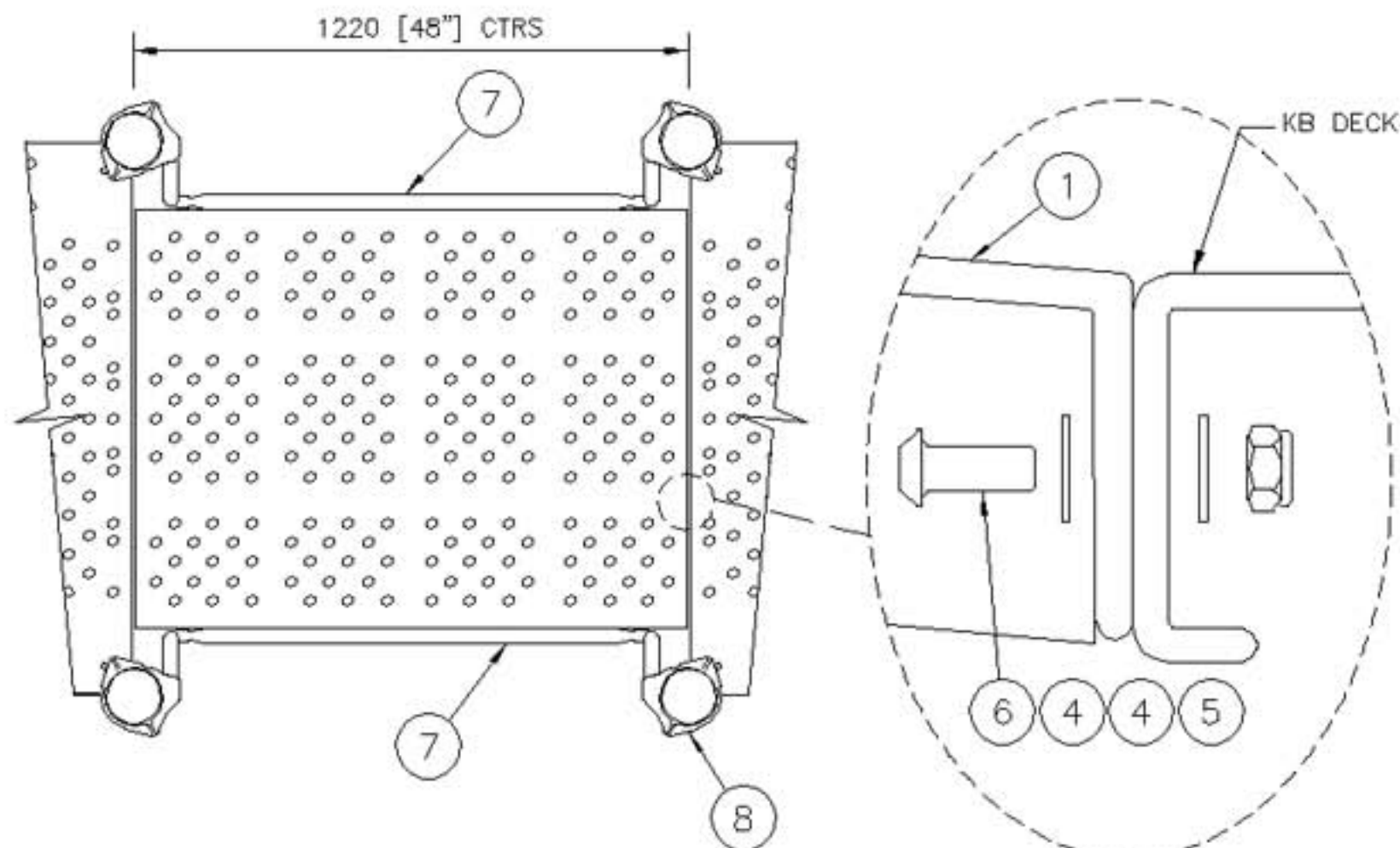
	Frequency	Inspection Code	Date	Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing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

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

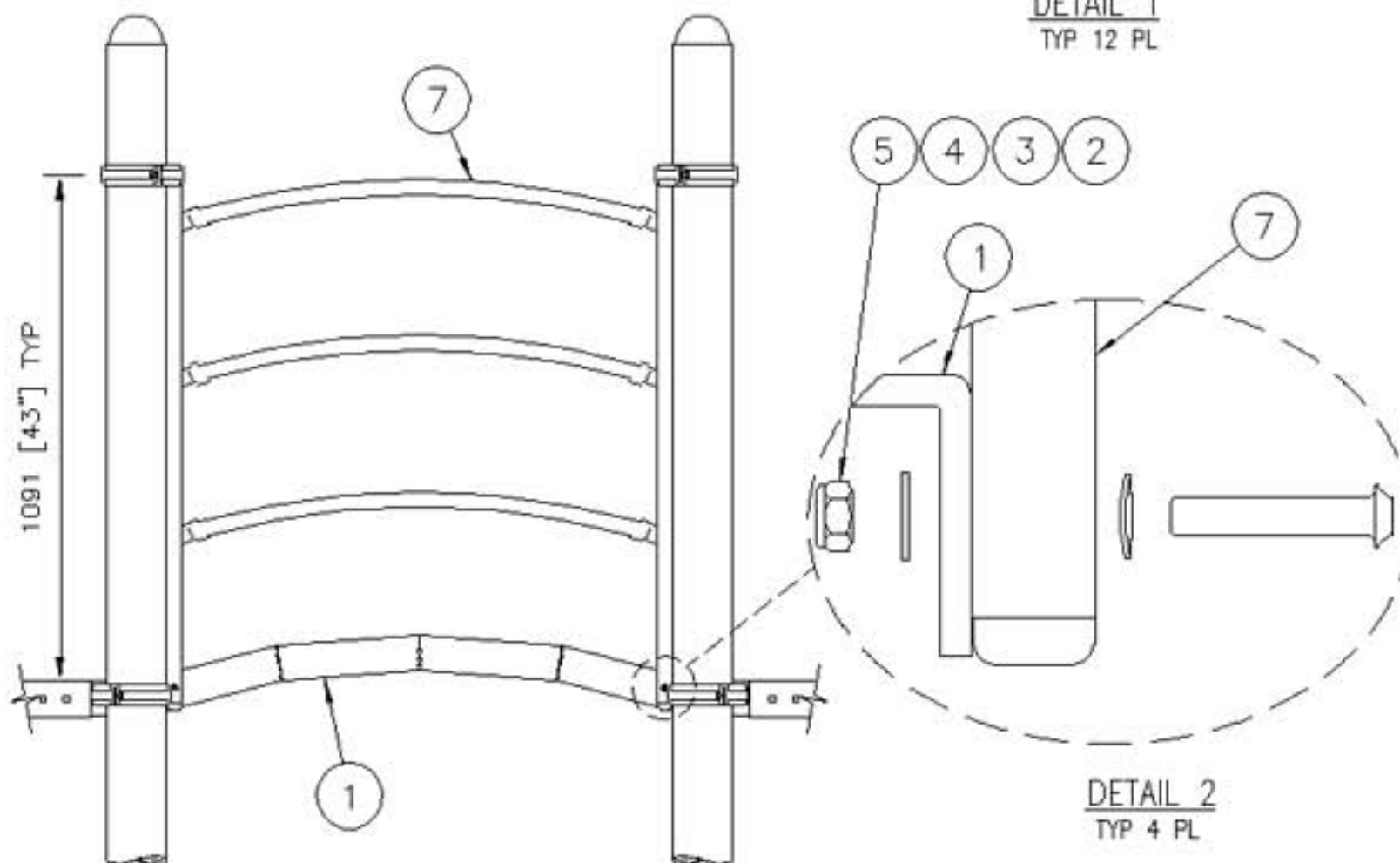
MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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



DETAIL 1
TYP 12 PL



DETAIL 2
TYP 4 PL

[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

BRIDGE ARCH 4' W/GAURD RAILS KB
200100283

BRIDGE ARCH 4' W/SAFETY RAILS KB
200100284

BRDG ARCH 4' GUARD RAIL (SMALL HOLES)
200200392

BRDG ARCH 4' SFTY RAIL (SMALL HOLES)
200200393

Item	Code	Description	Qty.
1A	-	1220 [48"] ARCHED BRIDGE	1
1B	-	BRIDGE ARCHED 4' (SMALL HOLE)	1
7A	-	GUARD RAIL F/1220 ARCH BRIDGE	2
7B	-	SAFETY RAIL F/1220 ARCH BRIDGE	2
8	-	HOODED RAIL CLAMP	4

HDWR BAG F/KB RAMPS & BRIDGES
200007692

Item	Code	Description	Qty.
2	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	4
3	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4
4	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	28
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	16
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	12

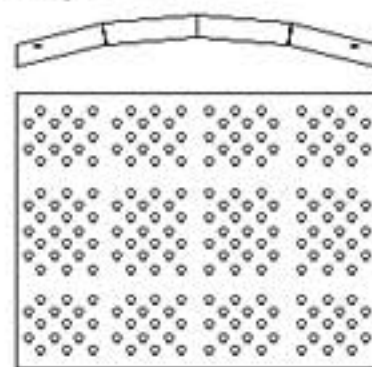
Refer to front of manual for clamp detail.

Application

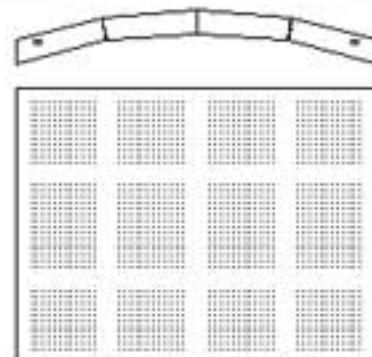
- Must be installed between 2 equal deck heights
- Can be used with Guard Rails or Safety Rails

Installation Instructions

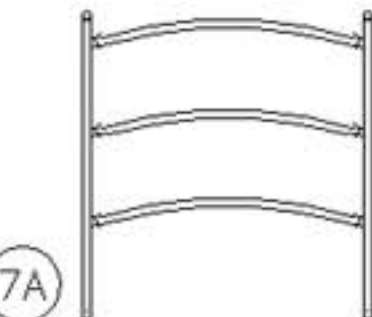
1. Assemble bridge to decks as shown in detail 1.
2. Assemble guard/safety rails to bridge as shown in detail 2.
3. Assemble hooded rail clamps to posts and rails (refer to the KB manual for clamp detail).



1A



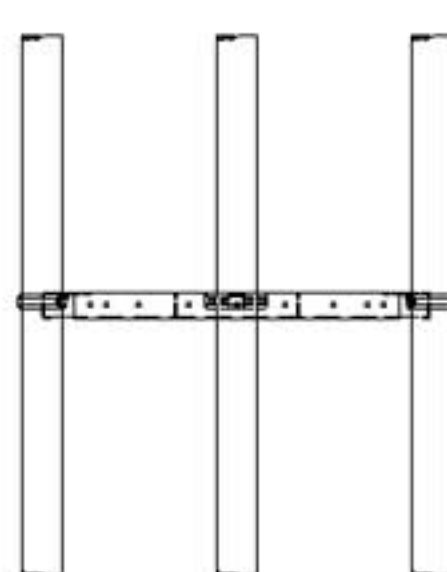
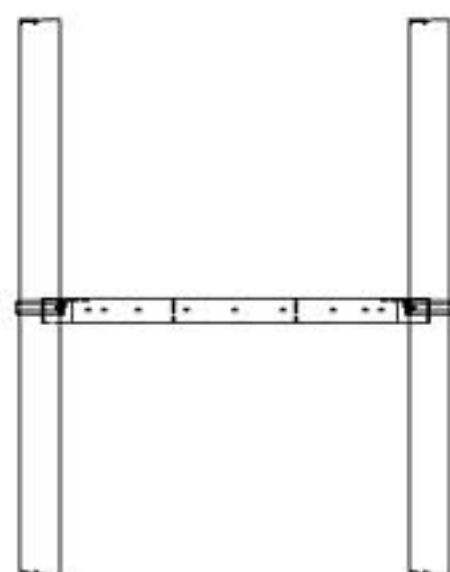
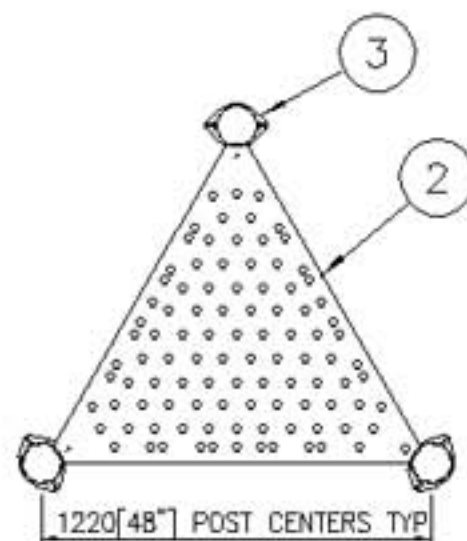
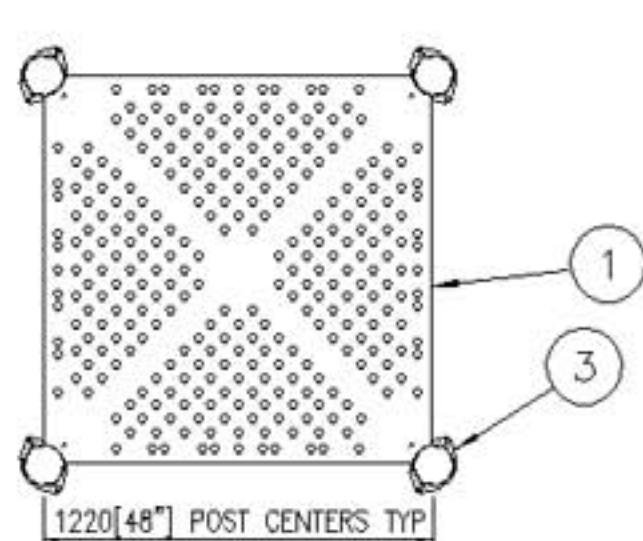
1B



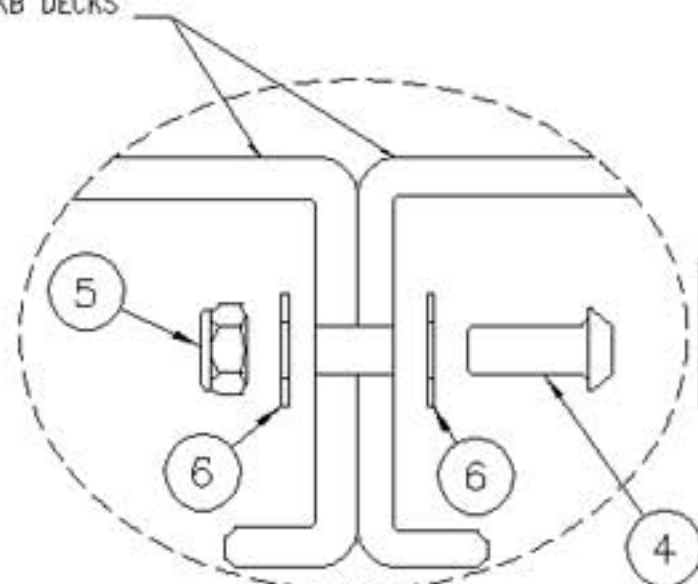
7A



7B



KB DECKS



TO INSTALL TWO DECKS AT THE SAME HEIGHT, PLACE THE DECK EDGES TOGETHER AND ASSEMBLE HARDWARE AS SHOWN AT LEFT.

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

200202483 SQUARE DECK 11 GA. (SMALL HOLE DECK 200202503)

Item	Code	Description	Qty.
1A	-	DECK SQUARE KB W/27 MM HOLES	1
1B	-	DECK SQUARE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	4

200202485 TRI-DECK 11 GA. (SMALL HOLE DECK 200202504)

Item	Code	Description	Qty.
2A	-	DECK SQUARE KB W/27 MM HOLES	1
2B	-	DECK TRIANGLE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	3

ADD-ON DECK HARDWARE BAG 200007704

Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
6	200002079	WASHER FLAT M11 X 12 X 1.6MM	14

Application

AGE GROUPS (2-12 YEAR OLDS)

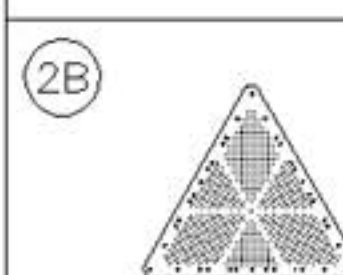
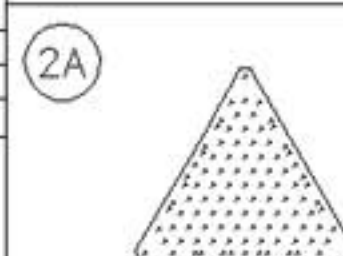
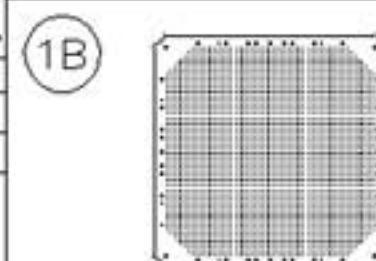
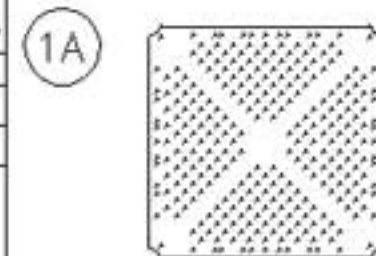
- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm [12"] without alternative means of access.
- A deck above 762mm [30"] must have an enclosure for ages 5 to 12 max. height difference between adjacent decks is 406mm [16"] without alternative means of access.

Installation Instructions

1. Position posts to proper locations or footing holes as specified by the playground layout drawing and the footing details in the front of this manual.
2. Measure and mark the height of each clamp on posts. The top of the clamp will be 13mm [1/2"] below the deck. IMPORTANT: When marking posts, allow for finished grade and resilient surfacing as specified in the footing details.
3. Fasten *clamps to posts. (SEE DECK CLAMP DETAILS IN THE FRONT OF THE KB MANUAL.) Do NOT drill for hammer drive pins yet.
4. Attach deck to clamps. Re-check levelness and deck height.
5. Tighten all hardware and drive pin clamps to posts. If installing additional decks at the same height, always install the first deck by attaching it to posts with deck clamps in all locations. Additional decks cannot share clamps with the first deck and will have to be assembled together mechanically as shown in detail. In all other locations where clamp space is available on the post, attach the deck with clamps.
6. Plumb and level decks and posts. If surface mounting, anchor bolt posts to concrete. If installing inground, make sure posts are at the proper height and complete footings.
7. After concrete has cured, backfill with earth and install ground cover.

AUTHORIZED BY:

Eric Clinton 18MAR11





1220mm [48"] TRANSFER STATION 11 GAUGE

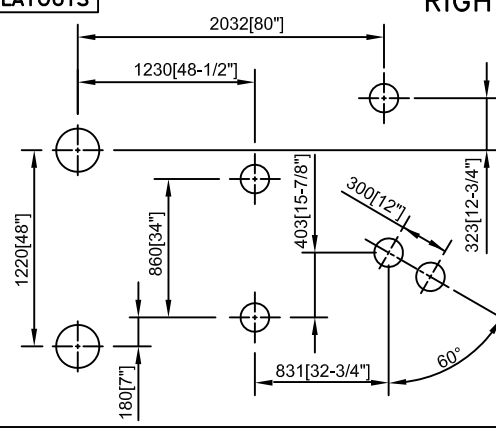
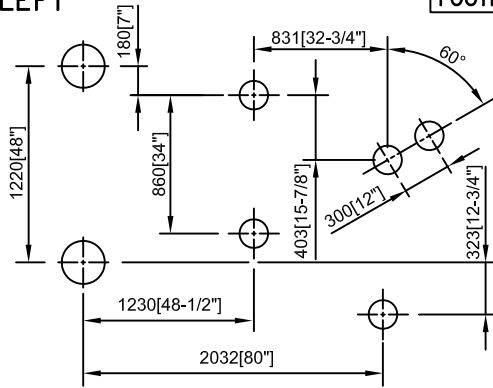
KB100053B

Sheet 1 of 2

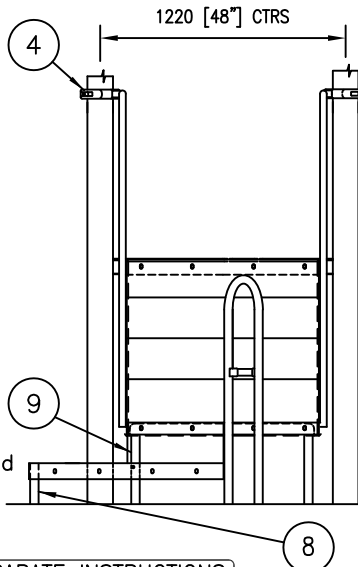
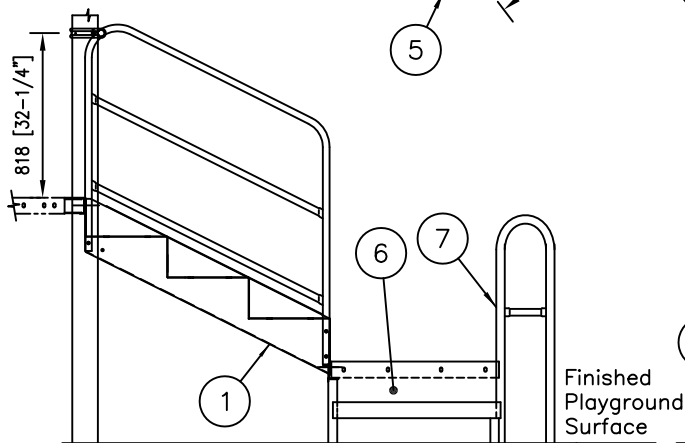
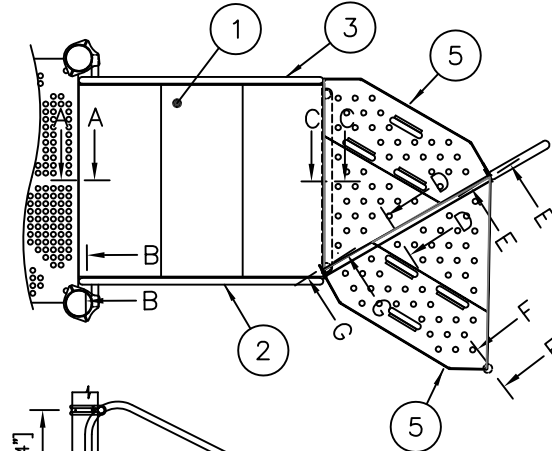
LEFT

FOOTING LAYOUTS

RIGHT



LEFT TRANSFER STATION W/GUARD RAILS SHOWN



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

200202564-KB TRANS STAT 1220 GRD RL 11GA
200202562-KB TRANS STAT 1220 SFTY RL 11GA
200202565-KB TRANS STAT 1220 GRD RL (SM HL)11GA
200202563-KB TRANS STAT 1220 SFTY RL (SM HL)11GA

Item	Code	Description	Qty.
1A	910530*	STEPS DECK TO DECK 815	1
1B	910529*	STEPS DK-TO-DK 815 SMALL HOLE	1
2A	911255*	HANDRAIL F/KB 1220TRNSFR STN LFT	1
2B	999421*	SAFETY RAIL LFT.KB 1220 TRSFR.	1
3A	911254*	HANDRAIL F/KB 1220TRNSFR STN RGT	1
3B	999420*	SAFETY RAIL RGT.KB 1220 TRSFR.	1
4	909346*	HOODED RAIL CLAMP F/KB	2
5A	902717*	DECK SNO CONE TRANSFER STATION LG HOLE	2
5B	902688*	DECK SNO CONE TRANSFER STATION SM HOLE	1
6	910421*	PLATE KICK F/TRANSFER STATION	1
7A	911253*	LOOP TRSFR STATION 40 SM	1
7B	911252*	LOOP F/TRSFR STATION 305 SFMT	1
7C	911251*	LOOP F/TRSFR STATION BURIED	1
8A	910044*	SUPP FOOT TRSFR STAT DK SM40	1
8B	910043*	SUPP FOOT TRSFR STAT DK SM305	1
8C	910042*	SUPP FOOT TRSFR STAT DK BURIED	1
9A	910041*	SUPP STEP TRSFR STAT 40 SFMT	1
9B	904419*	SUPP STEP TRSFR STAT 305 SFMT	1
9C	910040*	SUPP STEP TRSFR STAT BURIED	1
10	HW1CLMPSET-1	HRDW PKG F/1SET O/CLAMPS S1/1	3
11	HW16252-1	HRDW PKG KB TRSFR STATION 1/4	1
12	HW16252-2	HRDW PKG KB TRSFR STATION 2/4	1
13	HW16252-3	HRDW PKG KB TRSFR STATIN 3/4	1
14	HW16252-4	HRDW PKG KB TRSFR STATIN M4/4	1

Note: An (*) by a part number (Code) indicate: Color Code Required.

HRDW PKG F/1SET O/CLAMPS S1/1 - HW1CLMPSET-1

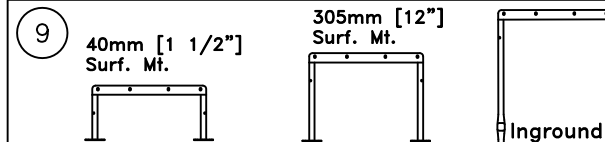
Item	Code	Description	Qty.
15	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
16	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
17	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

HRDW PKG KB TRSFR STATION 1/4 - HW16252-1
HRDW PKG KB TRSFR STATION 2/4 - HW16252-2
HRDW PKG KB TRSFR STATION 3/4 - HW16252-3
HRDW PKG KB TRSFR STATION M4/4 - HW16252-4

Item	Code	Description	Qty.
18	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	22
19	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	12
20	200002030	SCREW MACH BUTTONHEAD M10 X 1.5 X 30MM	4
21	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	43
22	200002133	BOLT M8 X 1.25 MALE 27.5mm	5
23	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	5
24	200002150	SCREW MACH. BUTTONHEAD M10 X 1.5 X 55mm	6
25	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	11

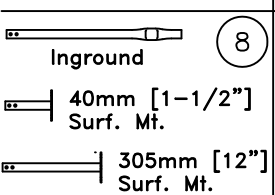
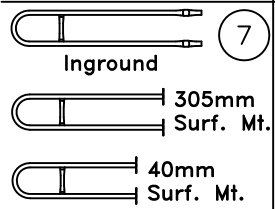
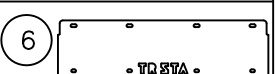
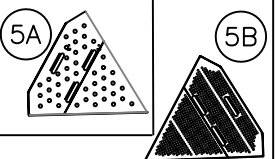
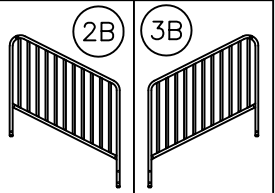
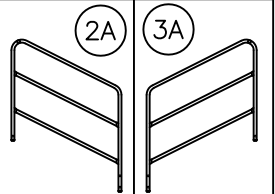
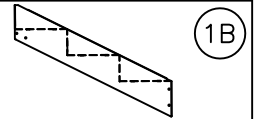
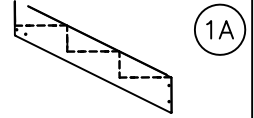
Application

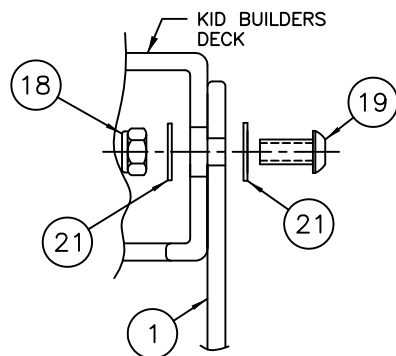
- Provides accessibility to structure.



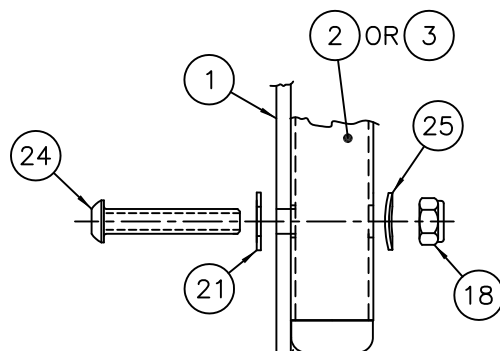
AUTHORIZED BY: 05FEB19

Steve Adkins

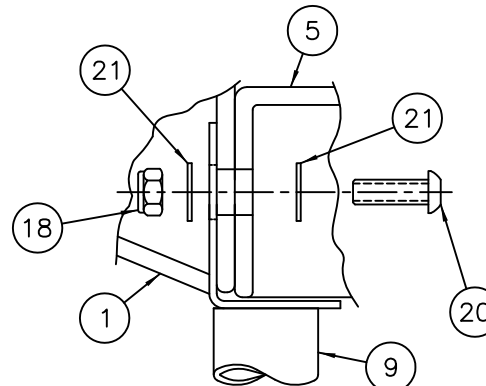




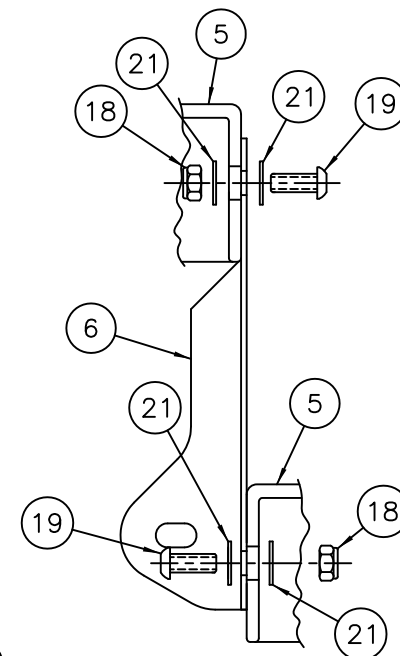
SECTION A-A
TYP 4 PL
(TOP OF STEPS TO
KB DECK ATTACHMENT)



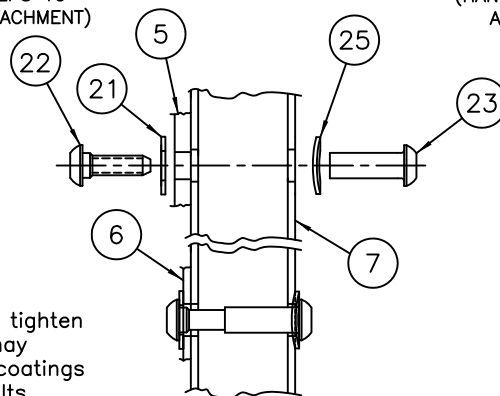
SECTION B-B
TYP 3 PL PER HANDRAIL
(HANDRAIL TO STEP
ATTACHMENT)



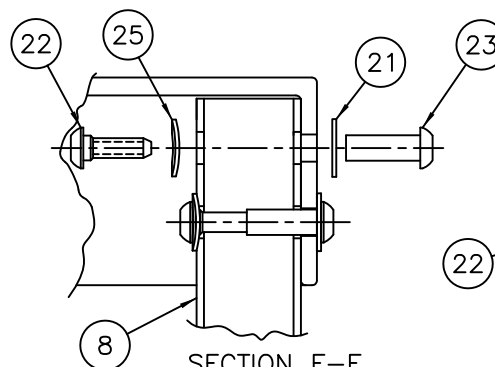
SECTION C-C
TYP 4 PL
(BOTTOM OF STEPS TO
UPPER SNO CONE DECK
AND SUPPORT STEP)



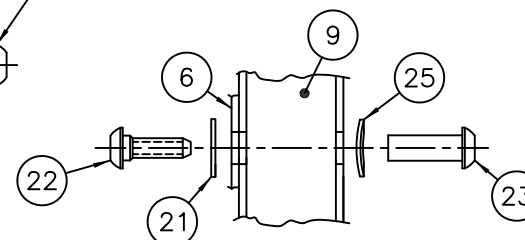
SECTION D-D
TYP 4 PL



SECTION E-E
TYP 1 PL
(LOOP ATTACHMENT
TO SNO CONE DECK
& KICK PLATE)



SECTION F-F
TYP 1 PL
(SUPPORT FOOT TO LOWER
SNO CONE DECK ATTACHMENT)



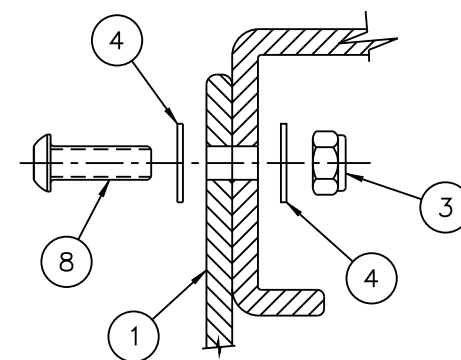
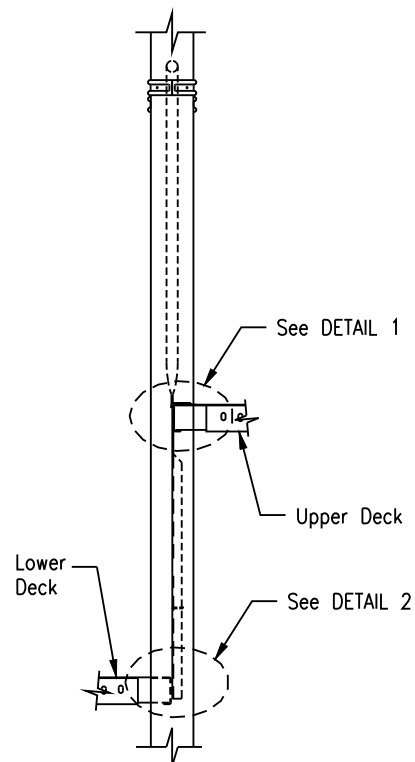
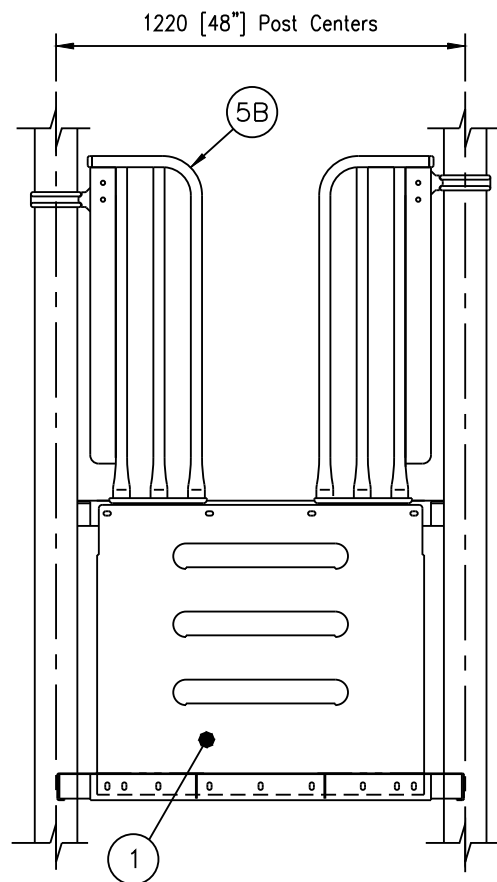
SECTION G-G
TYP 1 PL
(KICK PLATE TO STEP
SUPPORT ATTACHMENT)

Note: DO NOT over tighten bolts or damage may occur to the PVC coatings on components. Bolts have a thread lock patch. It is not necessary that the bolt extend into the nylon portion of the Nylock nut.

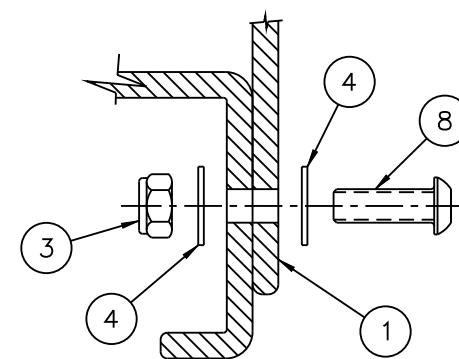
Installation Instructions

1. Prepare Footings.
2. Place the Step Support under the lower end of the Steps. Attach the upper end of the steps to the deck edge SEE SECTION A-A. Attach the Handrails to the sides of the Steps SEE SECTION B-B and then to the posts using Hooded Rail Clamps (refer to front of manual for clamp installation detail).
3. Attach the first Sno Cone Deck to the lower end of the Steps and Step Support as shown in SECTION C-C. Assemble the Kick Plate to the Sno Cone Deck as shown in SECTION D-D.
4. Attach the Loop to the corner of the first Sno Cone Deck SEE SECTION E-E.
5. Attach the Support Foot to the second Sno Cone Deck (SECTION F-F), then fasten the deck to the lower end of the Kick Plate (SECTION D-D).
6. Attach the Kick Plate to the Loop on one side and the Step Support on the other (SECTION G-G).
7. Tighten all hardware.
8. Complete footings and install resilient surfacing.

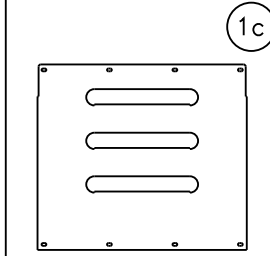
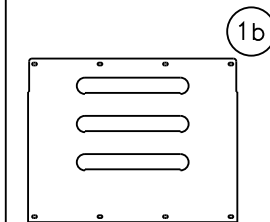
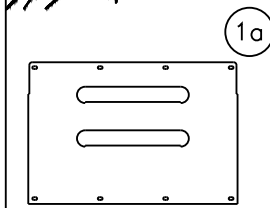
Signature



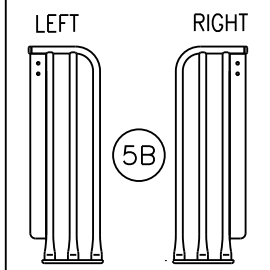
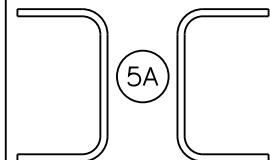
DETAIL 1
Typ 4 Places



DETAIL 2
Typ 4 Places



HANDHOLD LOOPS



SAFETY LOOPS



610/711/813 LADDER PANELS (BETWEEN DECK ONLY)

200002587

KB200004D-S2

SHEET 2 OF 2

AUTHORIZED BY: 16SEPT10

610mm[24"] LADDER PANEL W/HANDHOLD LOOPS
200007019
711mm[28"] LADDER PANEL W/HANDHOLD LOOPS
200007021
813mm[32"] LADDER PANEL W/HANDHOLD LOOPS
200007023

Item	Code	Description	Qty.
1a	-	610mm STEEL BRN LADDER PANEL F/KB	1
1b	-	711mm STEEL BRN LADDER PANEL F/KB	
1c	-	813mm STEEL BRN LADDER PANEL F/KB	
5A	-	HANDHOLD LOOPS - LEFT AND RIGHT F/KB	1 SET
6	-	KB CLAMP ASSEMBLY	4

HDWR BAG F/KB STEEL LADDER PANELS 200007705

Item	Code	Description	Qty.
9	200002030	SCREW MACH BUTTON HEAD M10 X 1.50 X 30mm	8
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	16

610mm[24"] LADDER PANEL W/SAFETY LOOPS
200007018
711mm[28"] LADDER PANEL W/SAFETY LOOPS
200007020
813mm[32"] LADDER PANEL W/SAFETY LOOPS
200007022

Item	Code	Description	Qty.
1a	-	610mm STEEL BRN LADDER PANEL F/KB	1
1b	-	711mm STEEL BRN LADDER PANEL F/KB	
1c	-	813mm STEEL BRN LADDER PANEL F/KB	
5B	-	SAFETY LOOPS - LEFT AND RIGHT F/KB	1 SET
6	-	KB CLAMP ASSEMBLY	2

HDWR BAG F/KB STEEL LADDER PANELS 200007705

Item	Code	Description	Qty.
9	200002030	SCREW MACH BUTTON HEAD M10 X 1.50 X 30mm	8
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	16

HDWR BAG F/KB ARCH SAFETY RAIL/MESH PNL 200007712

Item	Code	Description	Qty.
2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	6
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	8
7	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM THK	4

Application

- Cannot be used as sole access to the equipment for ages 2-5 years.

- See LOOP INSTRUCTIONS for further information to determine which loops are required for your application.

Installation Instructions

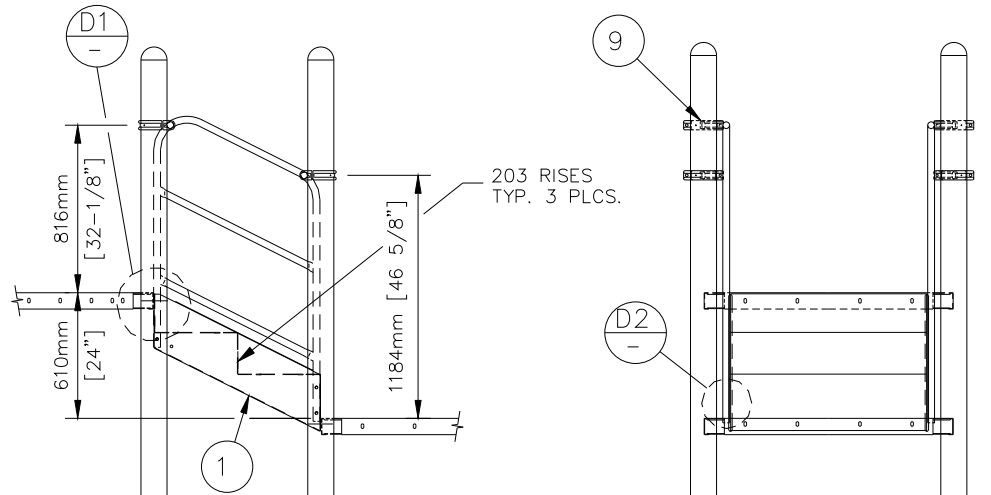
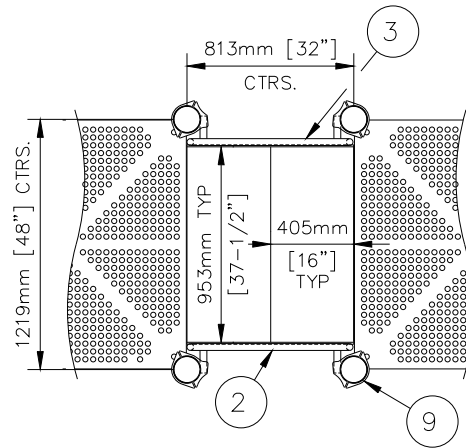
1. Install posts and decks. Make sure the decks are level and at the proper height. Install Loops (refer to Hand/Safety Loop Instruction for details).

2. Attach the top of the Ladder Panel to the front of the upper deck. See DETAIL 1.

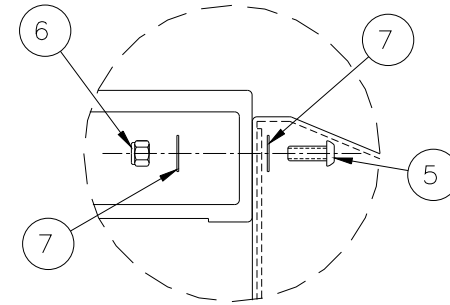
3. Attach the lower portion of the Ladder Panel to the lower deck. See DETAIL 2.

AUTHORIZED BY:

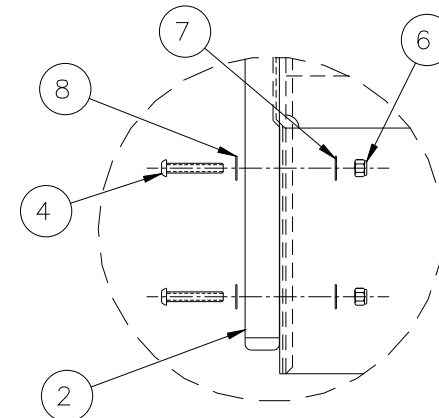
Joe Ritchett 02JUN08



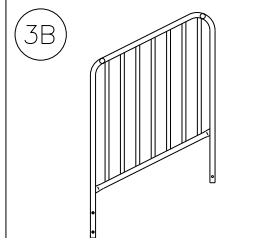
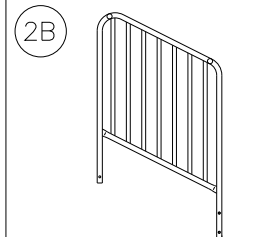
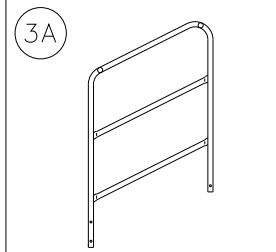
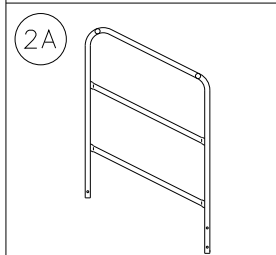
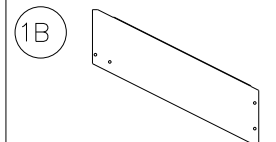
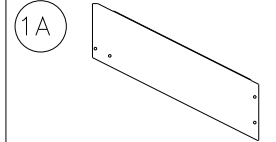
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



DETAIL D1
1: 5
STEP TO DECK
ATTACHMENT DETAIL
TYP. 4 PLCS.
BOTH ENDS



DETAIL D2
1: 5
RAIL TO DECK
ATTACHMENT DETAIL
TYP. 3 PLCS.
BOTH SIDES





610MM (24") DECK TO DECK STEPS W/RAILS

200125474
KB200009D-S2
Sheet 2 of 2

AUTHORIZED BY:
Joe Fitchett 02JUN08

STEPS DECK/DECK 610 MM W/GUARDRAILS F/KB
200125538

STEPS DK/DK 610MM GRD.RL. KB (SMALL HOLES)
200200400

STEPS DECK/DECK 610 MM W/SFTY RAILS F/KB
200125540

STEPS DK/DK 610MM SFTY RL.KB (SMALL HOLES)
200200401

Item	Code	Description	Qty.
1A	200125147	STEPS DECK TO DECK 610 (TDV) KB (2002)	1
1B	200146264	STEPS DK-TO-DK 610 KB (TDV) SMALL HOLE	
2A	200125335	GUARDRAIL LFT. KB 24" DK/DK TAN	
2B	200125375	SAFETY RAIL LFT. KB 24" DK/DK TAN	1
3A	200125333	GUARDRAIL RGT. KB 24" DK/DK TAN	
3B	200125376	SAFETY RAIL RGT. KB 24" DK/DK TAN	
9	200006754	HOODED RAIL CLAMP TAN F/KB	4

HDWR BAG F/KB DECK-TO-DECK STEPS

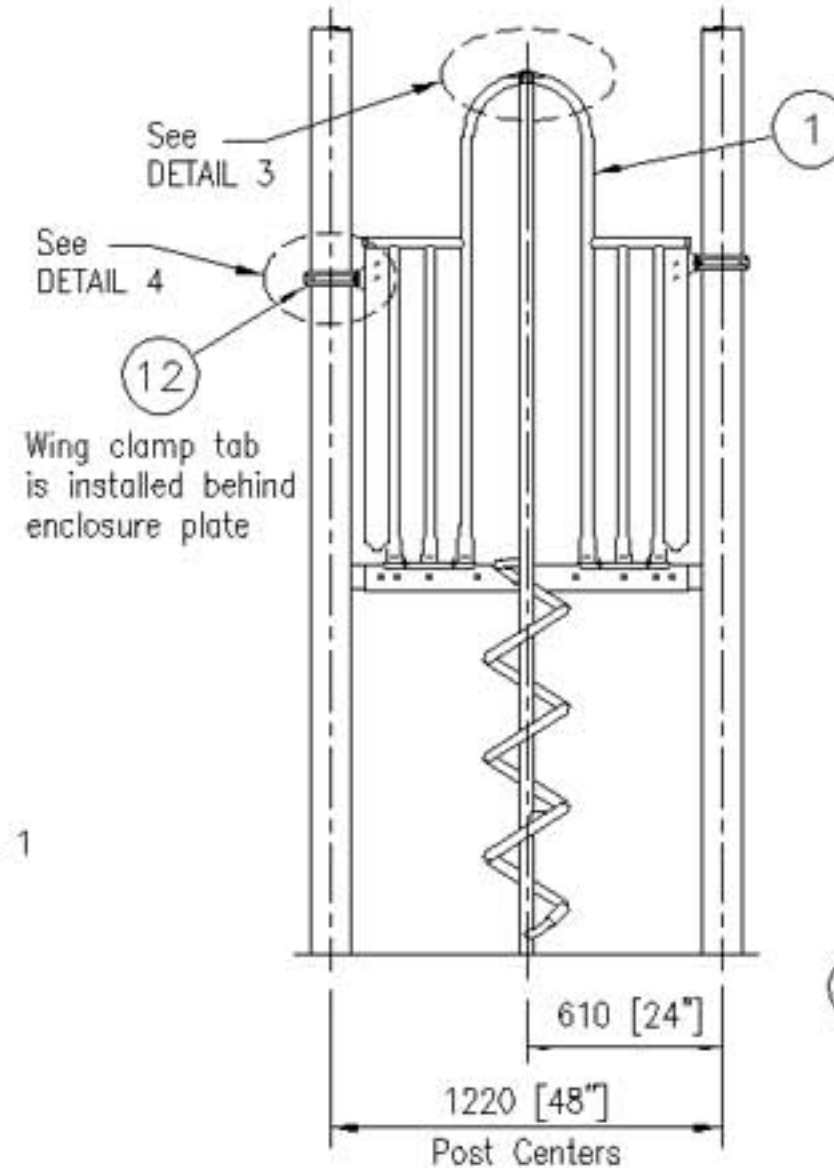
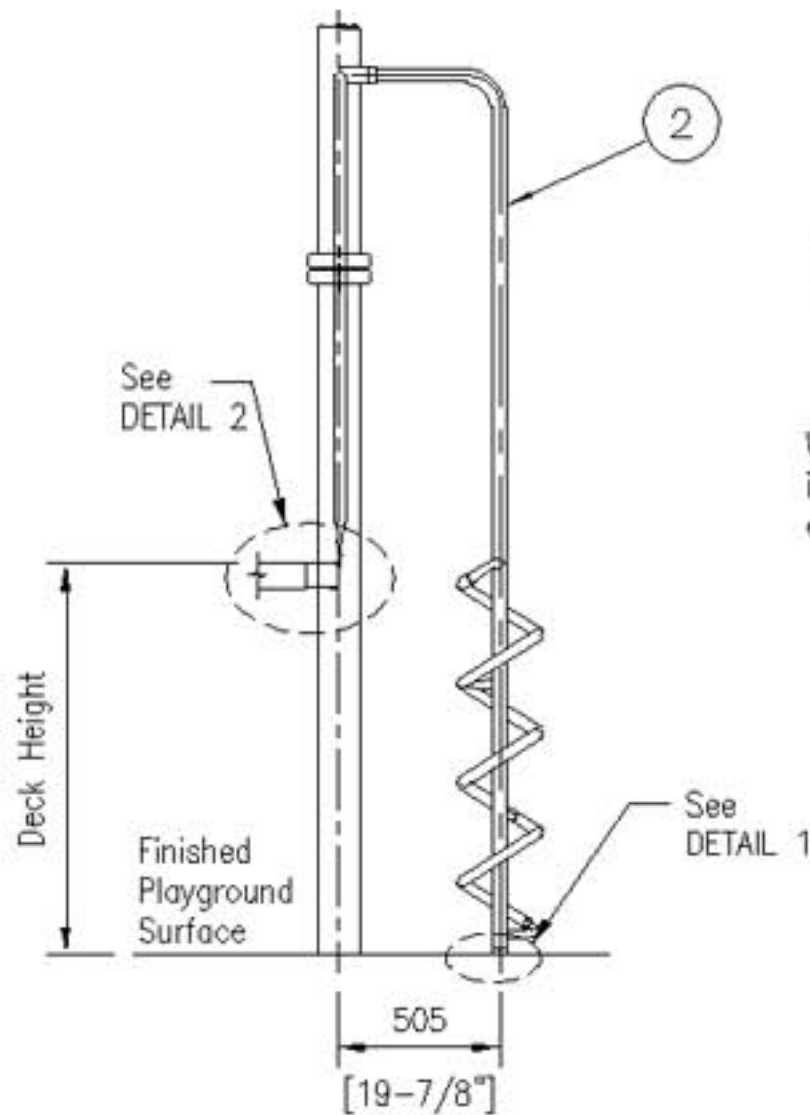
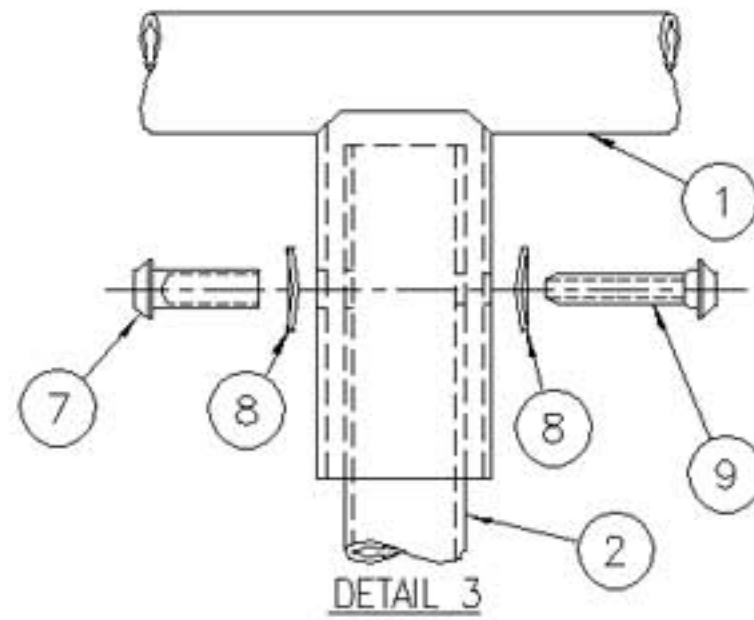
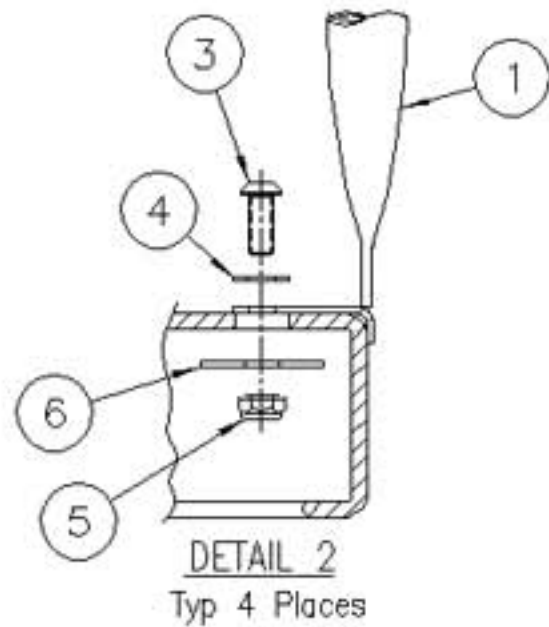
Item	Code	Description	Qty.
4	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	6
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
6	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	14
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	22
8	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	6

Application

- For use between two decks which are 610mm [24"] different in height.
- If the component includes guard rails and is predominantly used by 5–12 year olds, the upper deck must be 1220mm [48"] or less.
- If using guard rails and it will be predominantly used by 2–5 year olds, the upper deck must be 762mm [30"] or less.
- Safety Rails are acceptable in all applications.

Installation Instructions

1. Prepare footings.
2. Attach the top of the Steps to the front of the upper deck as shown in DETAIL 1.
3. Attach the lower end of the Steps to the front of the Lower deck as shown in DETAIL 1.
4. Slide hooded rail clamps onto rail stubs and loosely attach to posts (refer to front of manual for clamp installation detail). Attach the lower ends of the handrails to the sides of the Steps in three places per handrail as shown in DETAIL 2.
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.



915 [36"]	CURLY CLIMBER F/KB	200200265
1220 [48"]	CURLY CLIMBER F/KB	200200266
1422 [56"]	CURLY CLIMBER F/KB	200200267
1625 [64"]	CURLY CLIMBER F/KB	200200268
1830 [72"]	CURLY CLIMBER F/KB	200200269

Item	Code	Description	Qty.
1	-	ENCLOSURE SUPPORT F/KB VERT CLIMBERS (NEW)	1
2	-	CURLY CLIMBER	1
*10	200002133	BOLT M8 X 1.25 MALE 27.5 MM	1
*11	200000643	TUBE ANCHOR BRN F/CURLY CLIMBER	1
12	-	KB WING CLAMP	2

HDWR BAG SS F/KB CURLY CLIMBERS 200007748

Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	6
4	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
6	200002113	WASHER FLAT M12 (51 X 14.5 X 2 MM)	4
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	1**
8	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	2**
9	200002138	BOLT M8 X 1.25 MALE 42.5 MM	1

** QUANTITY DOUBLED FOR SURFACE MOUNT

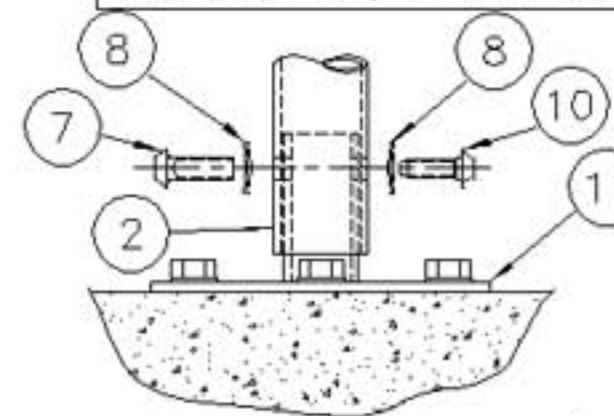
*USED FOR SURFACE MOUNT ONLY

Application

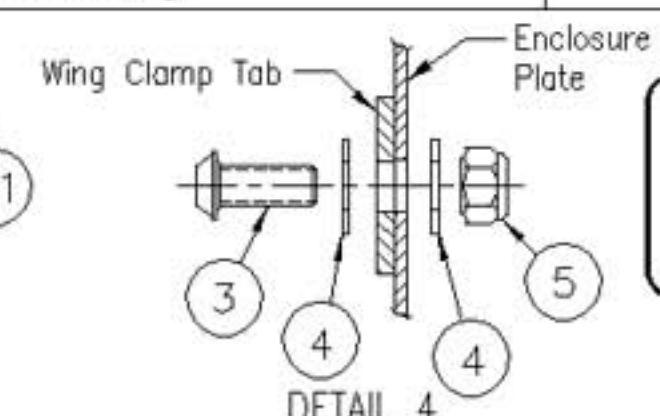
- Cannot be used as sole access.
- Inground versions may be used on non-specified deck heights. Consult your layout for details.

Installation Instructions

1. Prepare footing.
2. If installing a surface mount version, attach the tube anchor to the bottom of the pole (refer to DETAIL 1).
3. Loosely attach the lower portion of the enclosure to the deck (refer to DETAIL 2).
4. Attach the wing clamps onto the enclosure plates, then attach to the post (refer to DETAIL 4). **NOTE:** install the tab on wing clamp behind the enclosure plate.
5. Attach the top end of the pole to the enclosure (refer to DETAIL 3).
6. Tighten all hardware and install clamp drive pins.
7. Complete footing and install resilient surfacing.

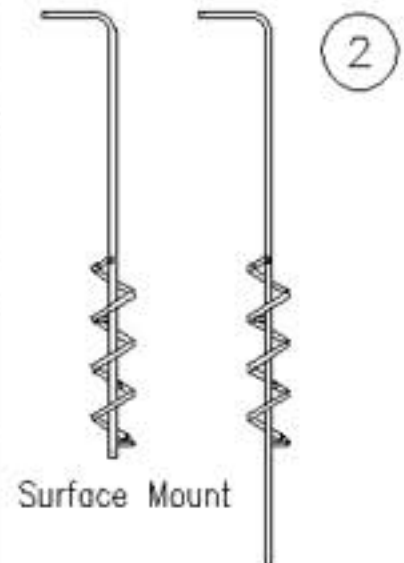
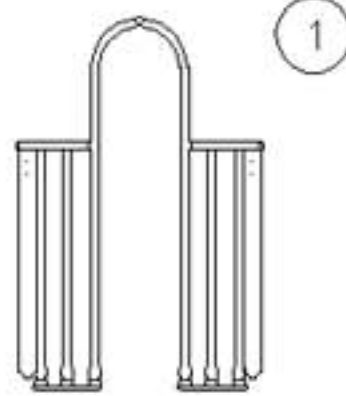


DETAIL 1 (Surface Mount)



DETAIL 4
Typ 2 Places

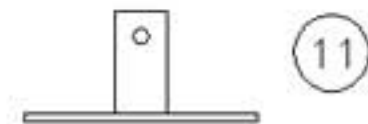
AUTHORIZED BY:



Surface Mount

Inground Mount

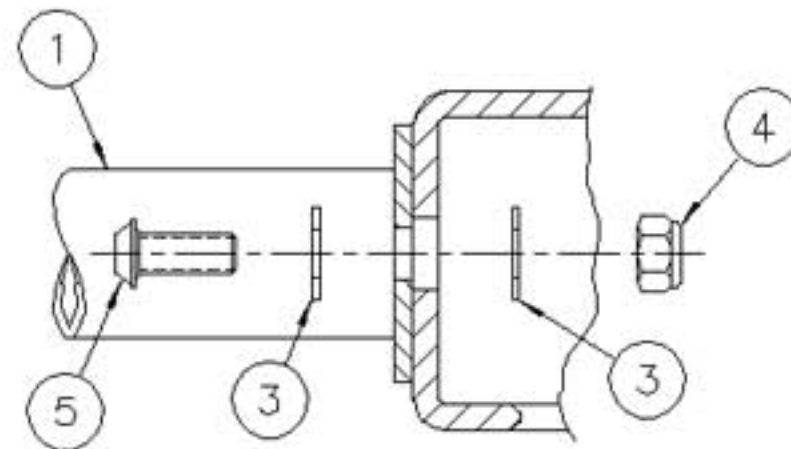
Number of coils
determined by deck height



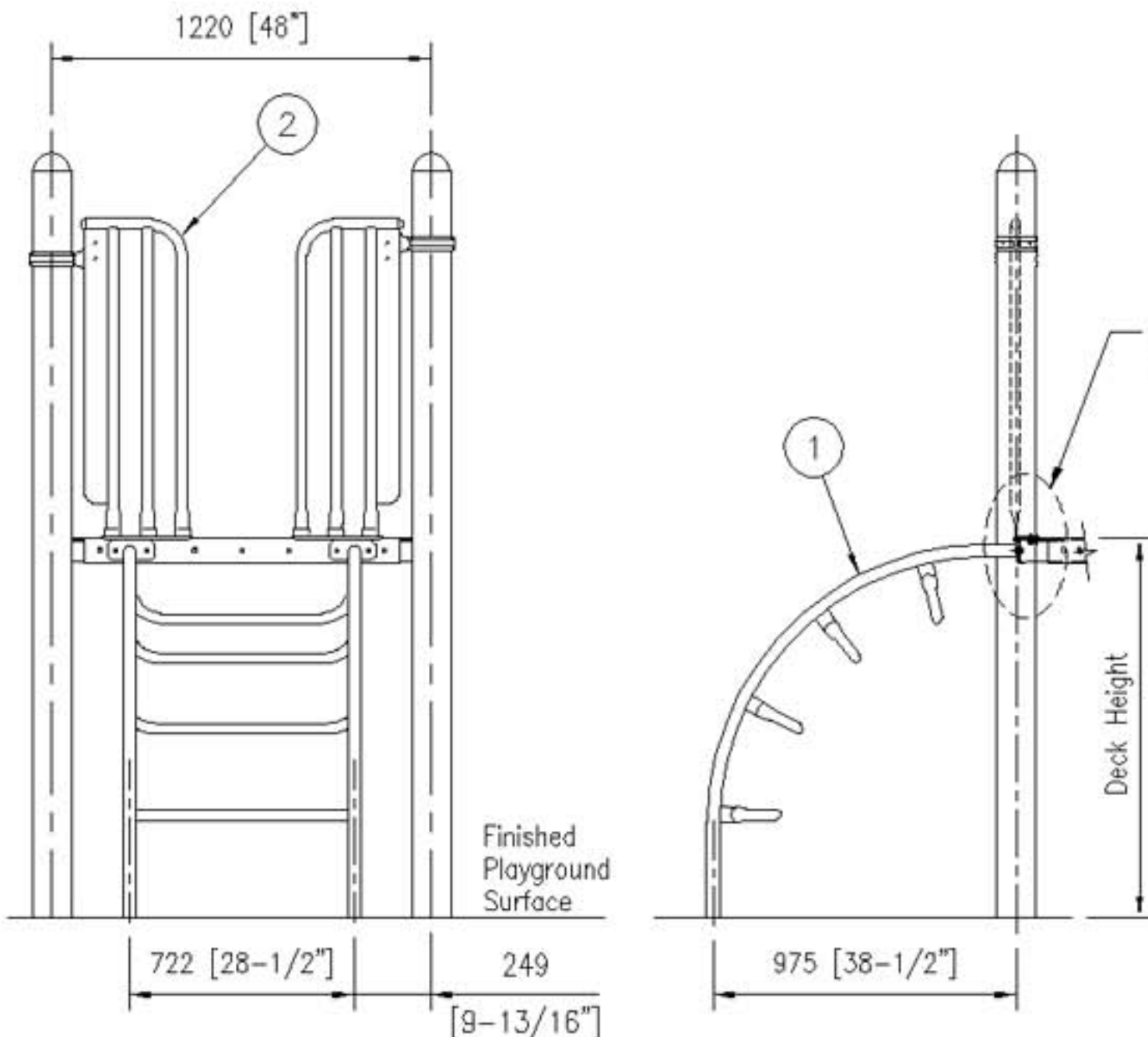
[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

NOTE: Wing clamp tabs are installed on deck side of support enclosure.

Joe Fitchett



DETAIL 1
Typ 4 Places



1220mm Climber Shown

[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

915 [36"] INV. ARCH CLIMBER W/SAFETY LOOPS
200007010

1220 [48"] INV. ARCH CLIMBER W/SAFETY LOOPS
200007012

Item	Code	Description	Qty.
1	-	INVERTED ARCH CLIMBER	1
2	-	SAFETY LOOP ASSY F/ KB W/2 WING CLAMPS	1

HDWR BAG F/KB ARCH-TYPE CLIMBERS (MM)
200007657

Item	Code	Description	Qty.
3	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 mm THK	8
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 mm	4

HDWR BAG F/KB ARCH SAFETY RAIL/MESH PNL
200007712

Item	Code	Description	Qty.
3	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 mm THK	8
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 mm	6
6	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM THK	4

915 [36"] INV. ARCH CLIMBER W/HANDHOLD LOOPS
200007011

1220 [48"] INV. ARCH CLIMBER W/HANDHOLD LOOPS
200007013

Item	Code	Description	Qty.
1	-	INVERTED ARCH CLIMBER	1
2	-	HANDHOLD LOOP ASSY F/KB W/4 RAIL CLAMPS	1

HDWR BAG F/KB ARCH-TYPE CLIMBERS (MM)
200007657

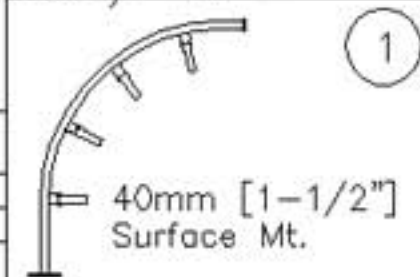
Item	Code	Description	Qty.
3	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 mm THK	8
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 mm	4

Application

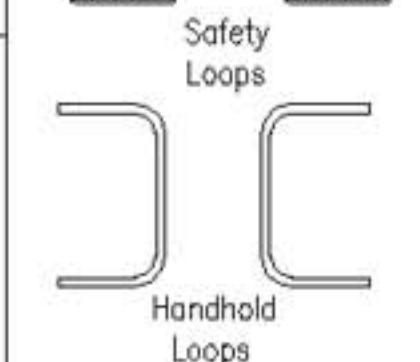
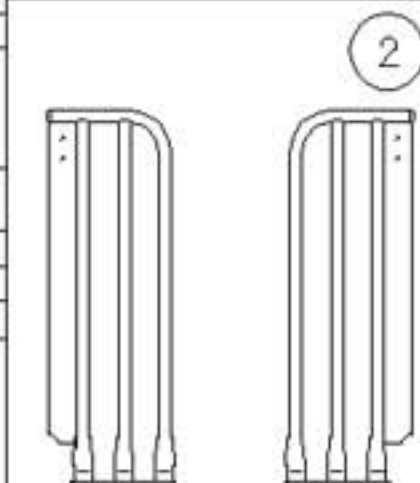
- Cannot be used as sole access to equipment.
- Inground Climbers may be installed at deck heights other than specified. Consult your Layout for details.

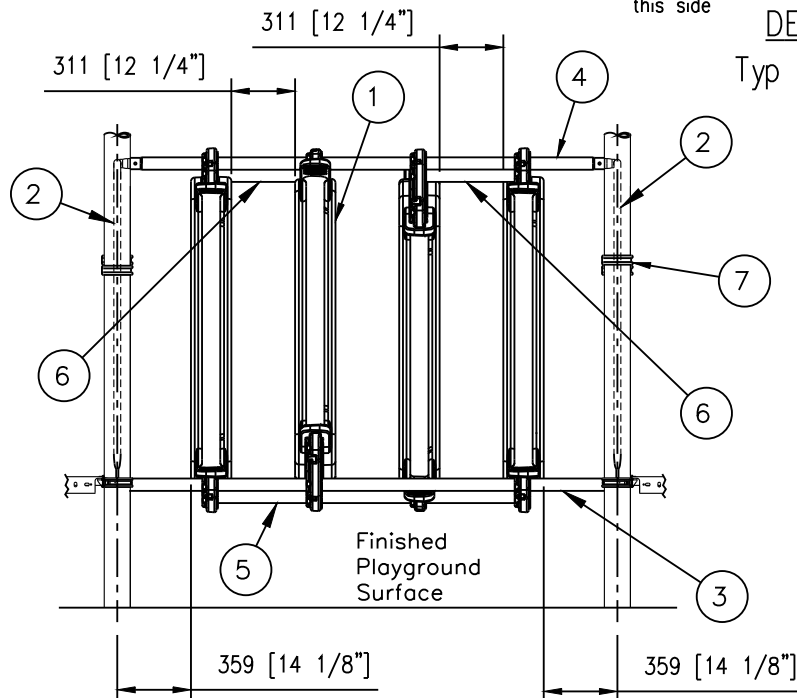
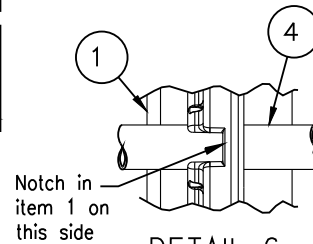
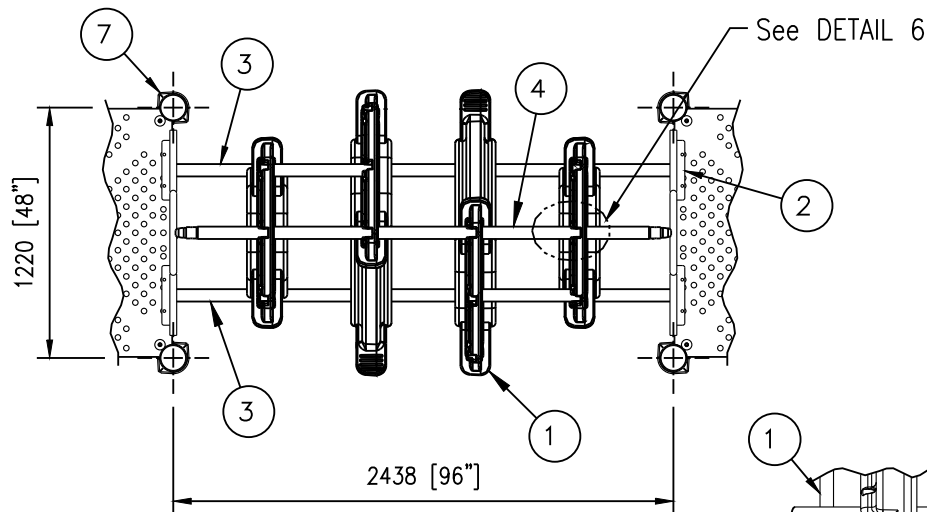
Installation Instructions

1. Prepare footings.
2. Install Loops. See Hand/Safety Loops instruction for details.
3. Attach Inverted Arch Climber to deck edge as shown in DETAIL 1.
4. Complete footings and install resilient surfacing.



1220mm models shown - 915mm models will have one less rung





NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB CRAZY HOOP-LA BRIDGE 2440mm [96"] 200202444

Item	Code	Description	Qty.
1	-	HOOP-LA CLIMBER PLASTIC	4
2	-	ENCL. SUPP. F/KB VERT CLIMB	2
3	-	TUBE 2440 F/DK2DK HOOP-LA	2
4	-	TUBE 2313 F/DK2DK HOOP-LA	1
5	-	TUBE STRAIGHT 1586 F/HOOP-LA	1
6	-	TUBE STRAIGHT 571 F/HOOP-LA	2
7	-	WING CLAMP ASSY	4

HDWR BAG F/CRAZY HOOP-LA BRIDGE F/KB 200193936

Item	Code	Description	Qty.
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	12
9	200002018	SCREW MACHINE BUTTONHEAD M10 X 1.50 X 25MM	16
10	200002079	WASHER FLAT M11 23 X 12 X 1.6	20
11	200002100	WASHER FLAT M11 32OD X 13ID X 2MM S.S.	8
12	200002138	BOLT M8 X 1.25 MALE 42.5MM	2
13	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	2
14	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57MM	4
15	200002002	SCREW DRILL HEX HEAD M6.3 X 1.81 X 65MM	36

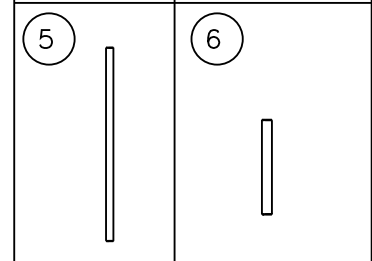
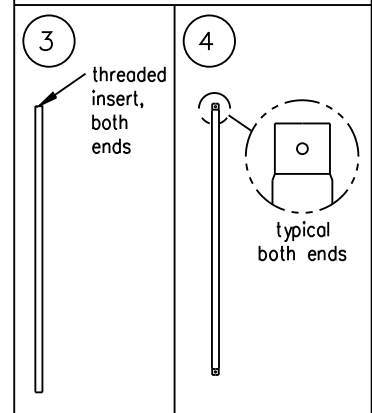
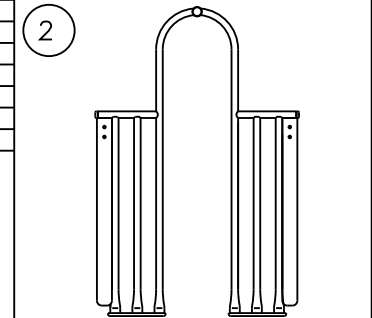
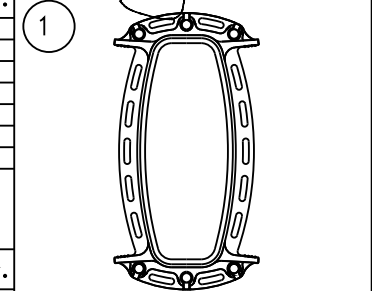
Installation Instructions

- Loosely attach clamps to the enclosures (refer to DETAIL 1).
- Loosely attach one enclosure to the deck (refer to DETAIL 2), and posts (refer to front of manual for clamp install details).
- Orient the notch on the plastic components as shown in DETAIL 6. Slide the swaged tube (Item 4) through the top center hole of the first plastic hoop.
- Slide the straight tubes (Item 3) through the lower outer holes of the first plastic hoop.
- Orient the 2nd plastic hoop and slide onto proper tubes (refer to 3D view, top rail thru the upper left hole, lower left rail thru the bottom center hole).
- Orient the 3rd plastic hoop and slide onto proper tubes (refer to 3D view, top rail thru the upper right hole, lower right rail thru the bottom center hole).
- Orient the 4th plastic hoop and slide onto proper tubes (refer to 3D view, top rail thru center, bottom rails thru outer holes).
- Slide 1586mm straight (Item 5) thru the four hoops in the holes between the two lower tubes.
- Elevate the assembly and attach to the edges of the decks (refer to DETAIL 4). Attach to the enclosure (refer to DETAIL 3).
- Attach remaining enclosure to upper tube, posts, and deck.
- Slide hoops along the tubes to proper locations per dimensions in main views.
- Slide 571mm tubes (Item 6) thru plastic hoops (refer to 3D view for proper locations).
- Check alignment and attach hoops to all of the tubes with self drilling screws (refer to DETAIL 5), 2 screws per tube connection. NOTE: the ends of items 5 and 6 should be flush with plastic hoop before attaching.
- Tighten all hardware and install pins in clamps.

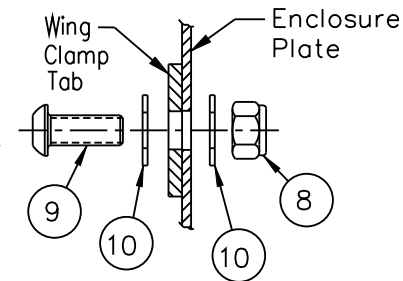
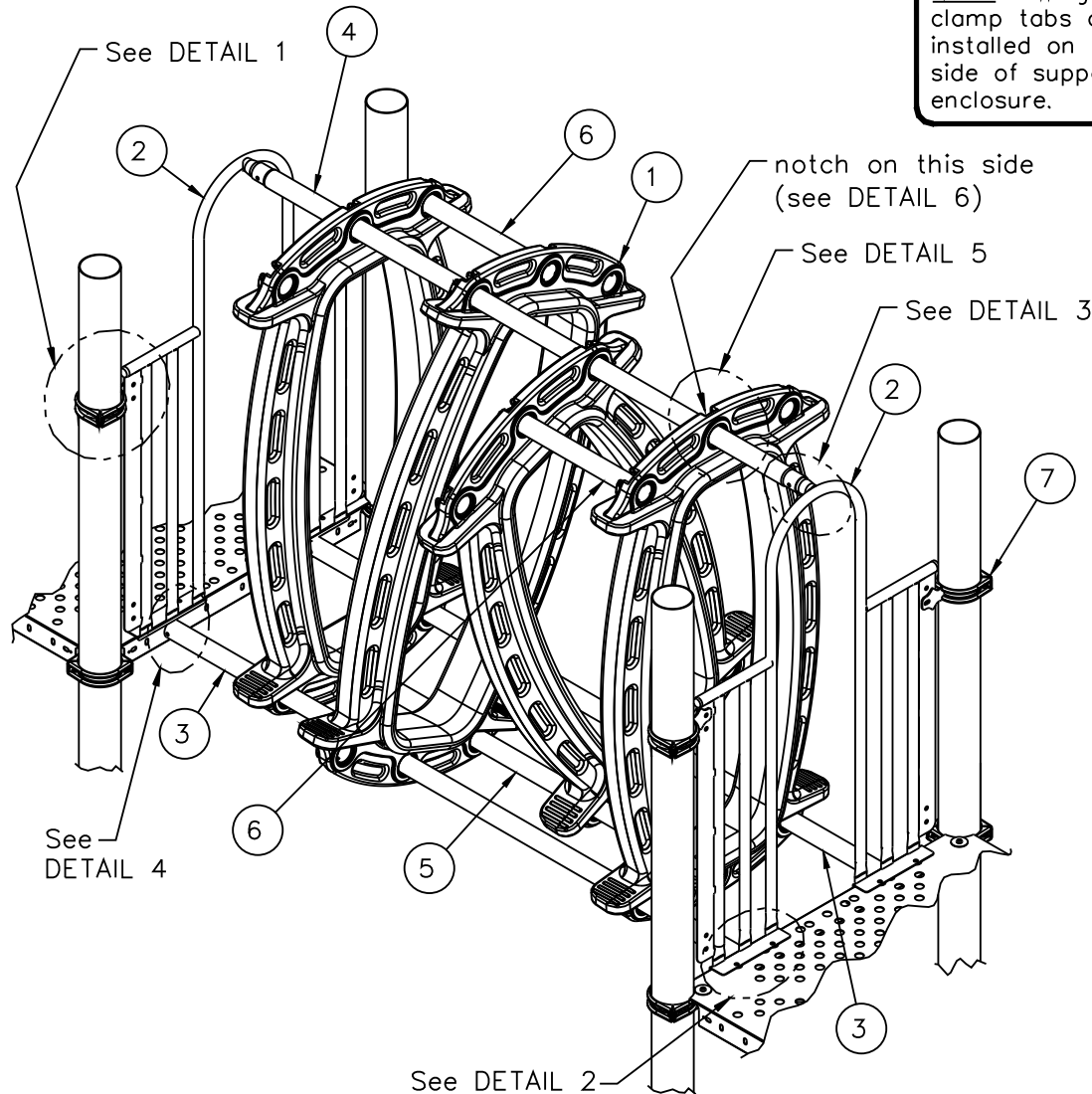
AUTHORIZED BY:

Chris M. McLaughlin

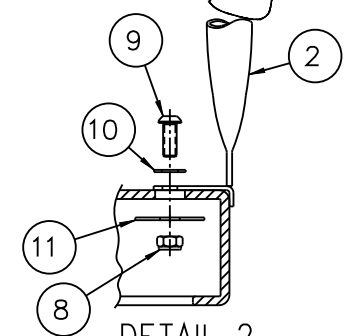
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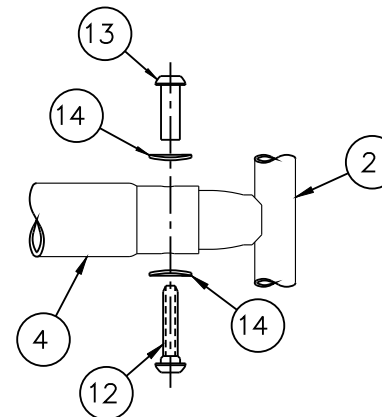
NOTE: Wing clamp tabs are installed on deck side of support enclosure.



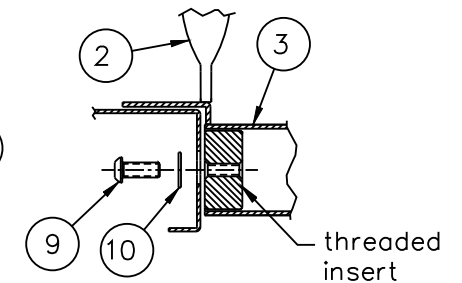
DETAIL 1
Typ 4 Places



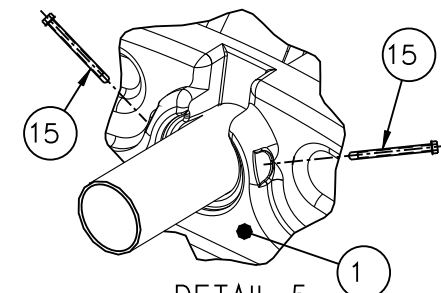
DETAIL 2
Typ 8 Places



DETAIL 3
Typ 2 Places



DETAIL 4
Typ 4 Places



DETAIL 5
Typ 18 Places

3D VIEW OF ASSEMBLY

KB Trail Climber

IMPORTANT! Prior to installation of any components refer to the front of the **Manufacturer's Assembly** manual and applicable safety guidelines and/or standards. The *Manufacturer's Assembly Manual* will provide important tips pertaining to **site requirements, footings, hardware** and other necessary information **vital to the success of your installation.**

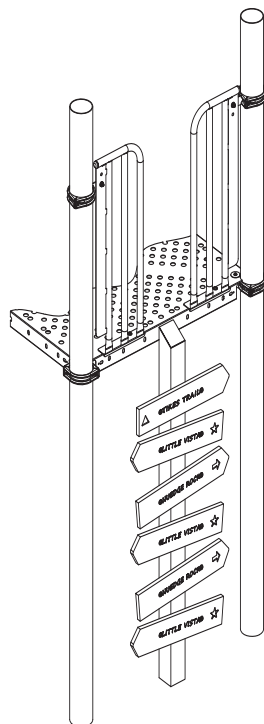
Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203460	KB Trail Climber 72"	2, 6
200203459	KB Trail Climber 64"	2, 6
200203458	KB Trail Climber 56"	3, 6
200203457	KB Trail Climber 48"	3, 6
200203537	KB Trail Climber 72" CSA	4, 6
200203536	KB Trail Climber 64" CSA	4, 6
200203535	KB Trail Climber 56" CSA	5, 6
200203534	KB Trail Climber 48" CSA	5, 6

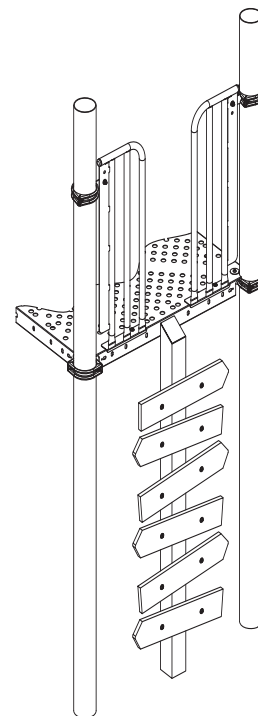
Note:

- Deck system and posts are not included in this assembly.
- An (*) by part numbers (CODE) indicate: Color Code Required.

KB Trail Climber - w/wording



KB Trail Climber CSA - w/out wording



Note: Deck height varies per model.

KB Trail Climber

200203460 KB TRAIL CLIMBER 72"

CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	3
903053	TRAIL CLIMBER SIGN, ARROW	2
925165	WOOD SIGN KIT F/72" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

200203459 KB TRAIL CLIMBER 64"

CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925614	WOOD SIGN KIT F/64"/56" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

<i>200203458 KB TRAIL CLIMBER 56"</i>		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925164	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203457 KB TRAIL CLIMBER 48"</i>		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	1
925163	WOOD SIGN KIT F/48" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

KB300442

KB Trail Climber

<i>200203537 KB TRAIL CLIMBER 72" CSA</i>		
CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	6
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203536 KB TRAIL CLIMBER 64" CSA</i>		
CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

<i>200203535 KB TRAIL CLIMBER 56" CSA</i>		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203534 KB TRAIL CLIMBER 48" CSA</i>		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	4
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

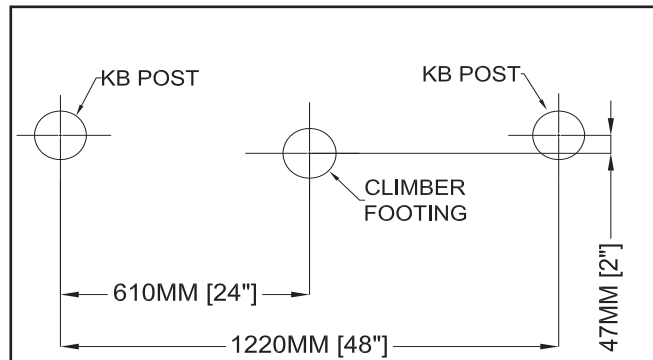
KB300442

KB Trail Climber

Note: Hardware packages are used for all eight (8) KB Trail Climbers w/words and w/o words.

HRDW PKG F/2SETS O/CLAMPS S1/1 HW2CLMPSET-1		
CODE	DESCRIPTION	QTY
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
HRDW PKG KB TRAIL CLIMBER S1/2 HW906362-1		
CODE	DESCRIPTION	QTY
200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	1
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
200002079	WASHER FLAT M11 23 X 12 X 1.6MM	9
200002096	WASHER FLAT M10 34 OD X 11 ID X 3MM SS	4
HRDW PKG KB TRAIL CLIMBER L2/2 HW906362-2		
CODE	DESCRIPTION	QTY
104286	BOLT 3/8-16 X 1 BHCS 6 LOBE 18-8 SS	12
110162	NUT 3/8-16 X 1 BARREL LENGTH, BUTTON HEAD	12
117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS	12
104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
104481	BIT 6 LOBE T-55 FOR 1/2 BOLTS	1

Footing Layout - for both KB Trail Climber w/words and w/o words.



KB Trail Climber

STEP 1 DECK AND POST FOOTINGS

1a. Deck and posts are in place per *Footings Layout* and Construction Drawings per model option.

1b. Deck Height Options:

- 1830MM [72"]
- 1625MM [64"]
- 1422MM [56"]
- 1220MM [48"]

Note: Deck Height Options are the same for KB Trail Climber CSA.

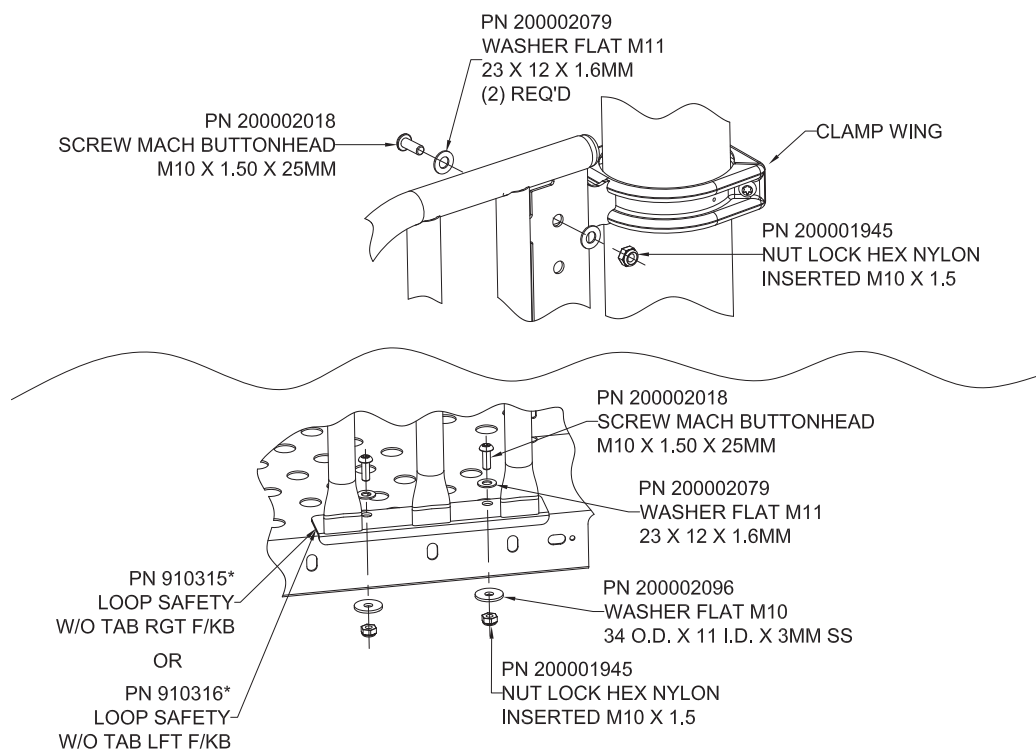
STEP 2 ASSEMBLE WING CLAMPS

2a. *Loosely* assemble wing clamps on posts per clamp installation details in the installation manual .

STEP 3 ATTACH SAFETY LOOPS TO DECK

3a. *Loosely* attach safety loops to deck and to wing clamps/post as shown below.

3b. Install wing clamp tabs on deck side of safety loop.



KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS

4a. Attach boards with inserts to the climber post as shown.

Note: See Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

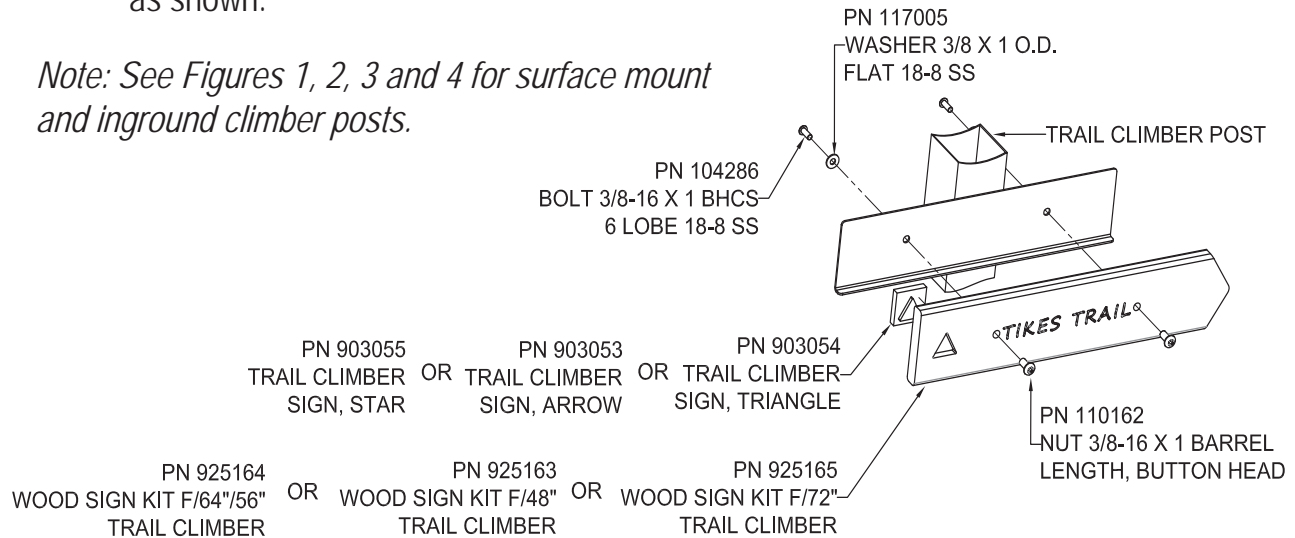


Figure 1. 1830MM [72"]

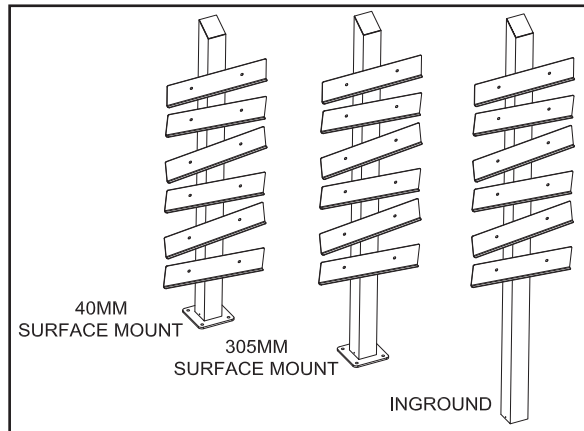


Figure 2. 1625MM [64"]

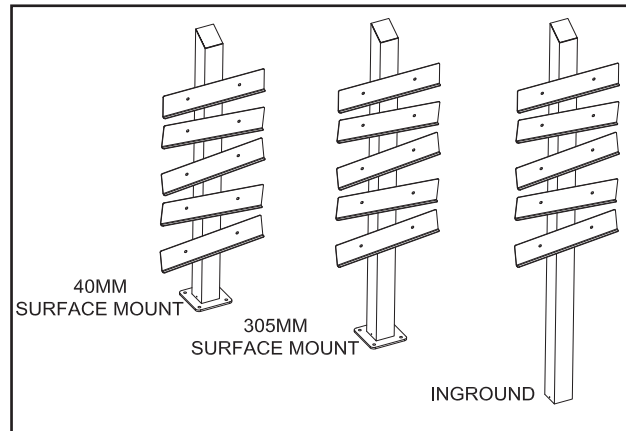


Figure 3. 1422MM [56"]

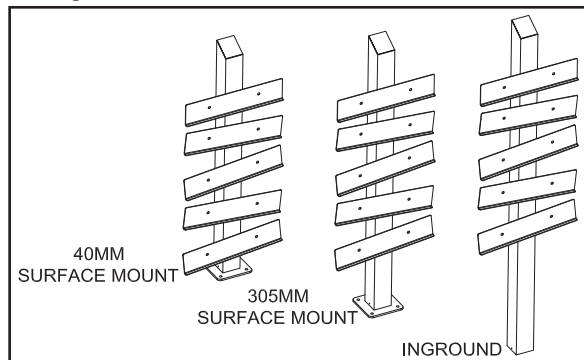
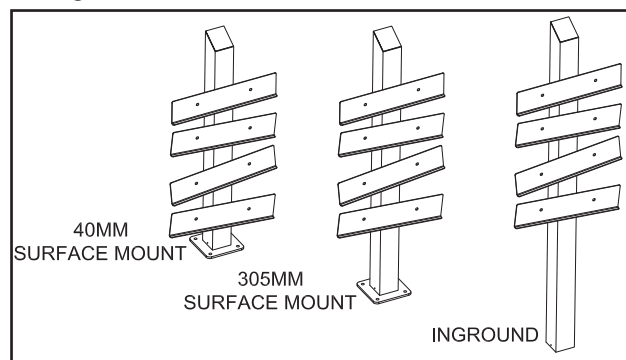


Figure 4. 1220MM [48"]



KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS cont.

4b. Follow the insert locations, as shown below, for each climber post height.

Note: See Figures 5, 6, 7 and 8 for insert locations.

Figure 5. 1830MM [72"]

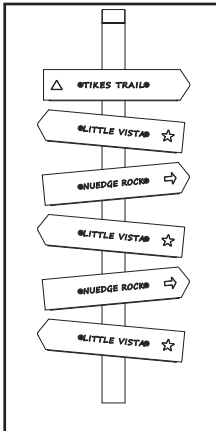


Figure 6. 1625MM [64"]

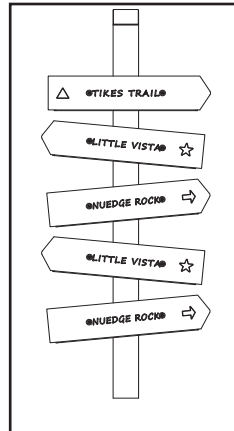


Figure 7. 1422MM [56"]

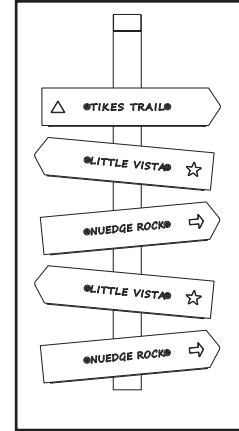
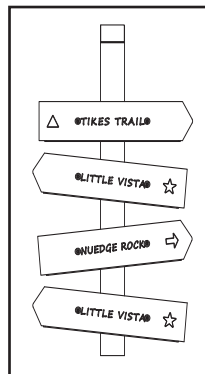


Figure 8. 1220MM [48"]



KB Trail Climber

STEP 5 ATTACH BOARDS W/OUT INSERTS/WORDING FOR CSA MODELS

5a. Attach boards to the climber post as shown below.

Note: See Figures 9, 10, 11 and 12 for board placement. Refer to Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

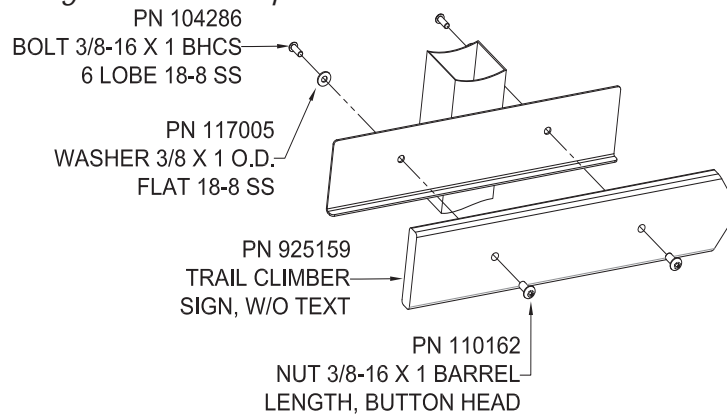


Figure 9. 1830MM [72"]

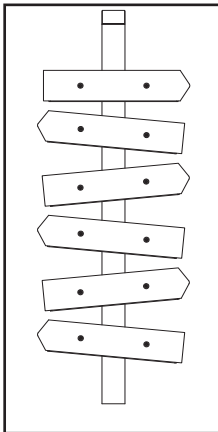


Figure 10. 1625MM [64"]

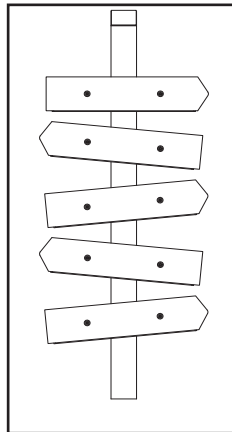


Figure 11. 1422MM [56"]

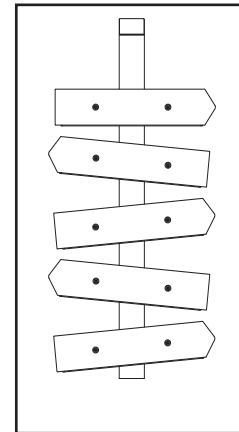
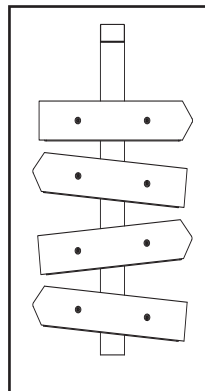


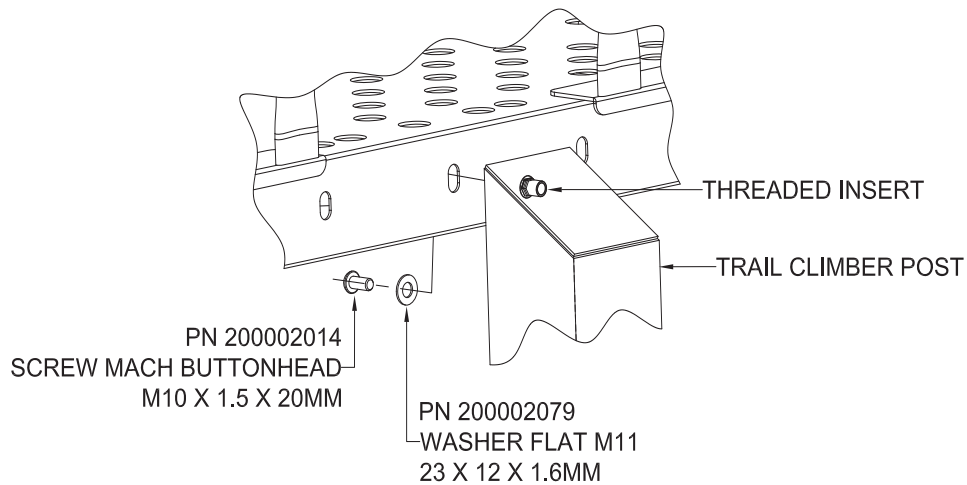
Figure 12. 1220MM [48"]



KB Trail Climber

STEP 6 ATTACH POST CLIMBER TO DECK

6a. Attach the post climber to the deck face as shown below.



6b. Tighten all hardware and install clamp drive pins.

FINAL STEP

Proceed with *Final Assembly installation*.

INST F/KB DBL WALL CLIMBER

KB300443B

SHEET 1 OF 6

Deck Height Options:

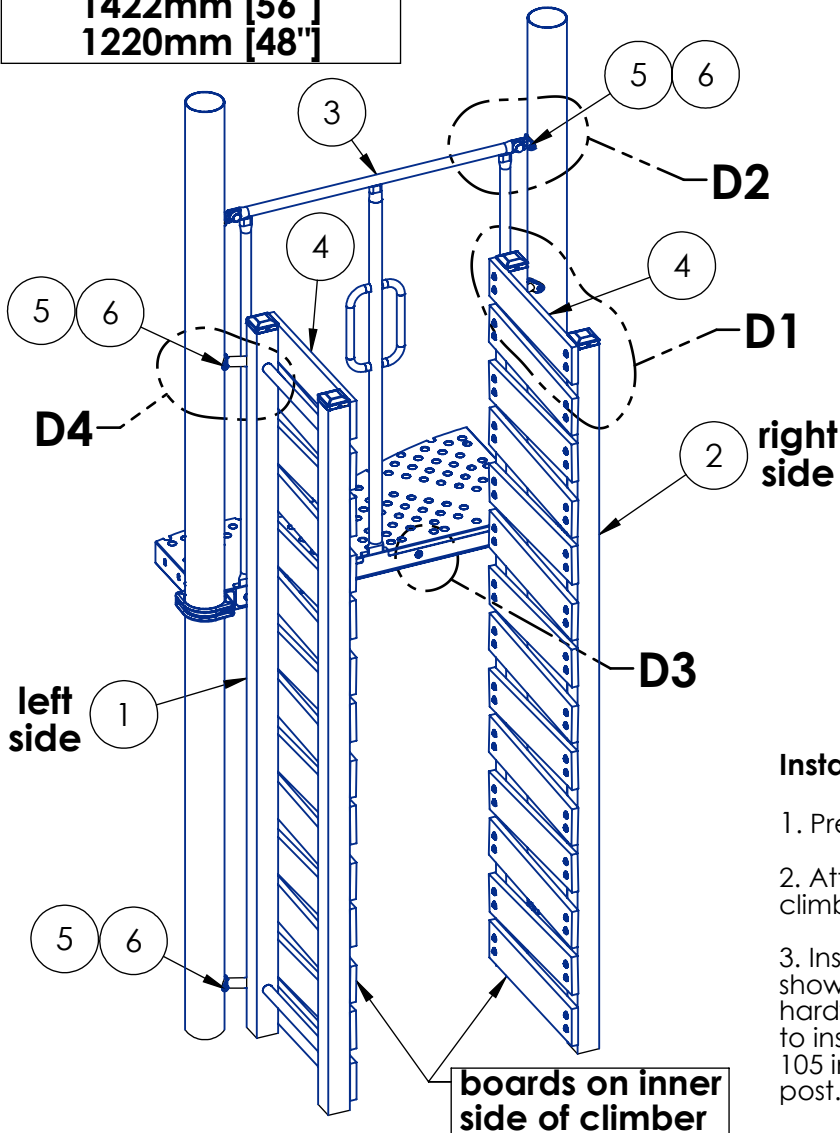
1625mm [64"]

1422mm [56"]

1220mm [48"]

1625mm [64"] PARTS LIST

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Tracy Archer



1625mm [64"] CLIMBER SHOWN

14 boards each side on 1625mm

13 boards each side on 1422mm

12 boards each side on 1220mm

FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

Installation Instructions

1. Prepare footings.

2. Attach boards to the left and right climbers as shown in DETAIL 1.

3. Install enclosure onto deck and post as shown in DETAILS 2 and 3. Do not install hardware caps yet. Use driver bit (item 15) to install T-27 screws. **NOTE:** do not exceed 105 in-lbs torque when installing screws to post.

4. **Surface mount** climbers will have the letter "L" for left side, and "R" for right side on the surface mount footing plates.

For **inground mount**, block climbers up to correct height as shown on sheet 3.

KB DBL WALL CLIMBER 64" 200203467

Item	Code	Description	Qty
1A	902861DBW	DOUBLE WALL CLIMBER ASSY, LH 64" SM	1
	902860DBW	DOUBLE WALL CLIMBER ASSY, LH 64" 305SM	
	902862DBW	DOUBLE WALL CLIMBER ASSY, LH 64" ING	
2A	902852DBW	DOUBLE WALL CLIMBER ASSY, RH 64" SM	1
	902851DBW	DOUBLE WALL CLIMBER ASSY, RH 64" 305SM	
	902853DBW	DOUBLE WALL CLIMBER ASSY, RH 64" ING	
3	910031*	ENCL. KB VERSA-CLIMB	1
4	925157	DOUBLE WALL CLIMBER BOARD	28
5	910340*	TAB RAIL 33.4 F/PB	4
6	200058372	GASKET F/PB TABS (SMALL)	6
7	910918*	CAP HARDWARE BASE	2
8	910917*	CAP HDWR COVER	2
9	HW925157-1	HRDW PKG KB DBL WALL CLIMBR S1/2	1
10	HW925157-2	HRDW PKG KB DBL WALL CLIMBR S2/2	14

HRDW PKG KB DBL WALL CLIMBR S1/2 - HW925157-1

11	300002750	SCREW T-27 TORX ROUND WASHER HD	12
12	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
13	200002030	SCREW MACH BUTTON HEAD M10 X 1.5 X 30mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	10
16	200066126	DRIVER BIT T-27 TAMPER-RESISTANT F/PB	1

HRDW PKG KB DBL WALL CLIMBR S2/2 - HW925157-2

17	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55MM	8
18	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8

Note: An (*) by a part number (CODE) indicate: Color Code Required.

Climbers should be placed with the boards positioned on the inner side of the climbers. Attach the wall climbers to the posts as shown in DETAIL 4. Use driver bit (item 15) to install T-27 screws. **NOTE:** do not exceed 105 in-lbs torque when installing screws to post.

5. Check wall climbers for level and plumb. Distance between left and right boards is 768mm [30"] as shown on sheet 3.

6. Tighten all hardware and install hardware covers.

7. Complete footings and install resilient surfacing.

INST F/KB DBL WALL CLIMBER

KB300443B
SHEET 2 OF 6

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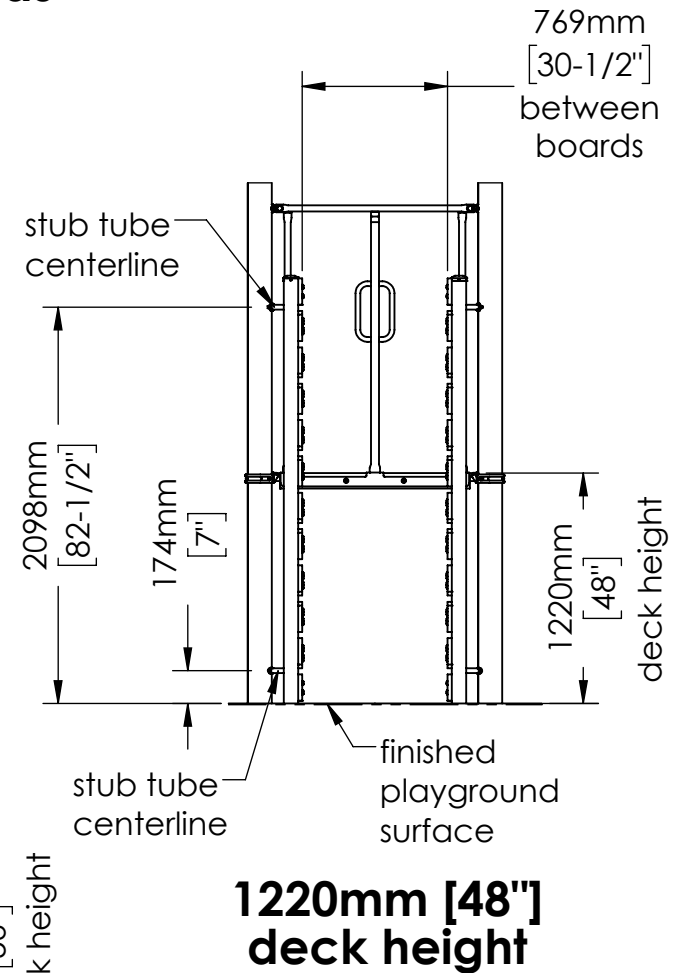
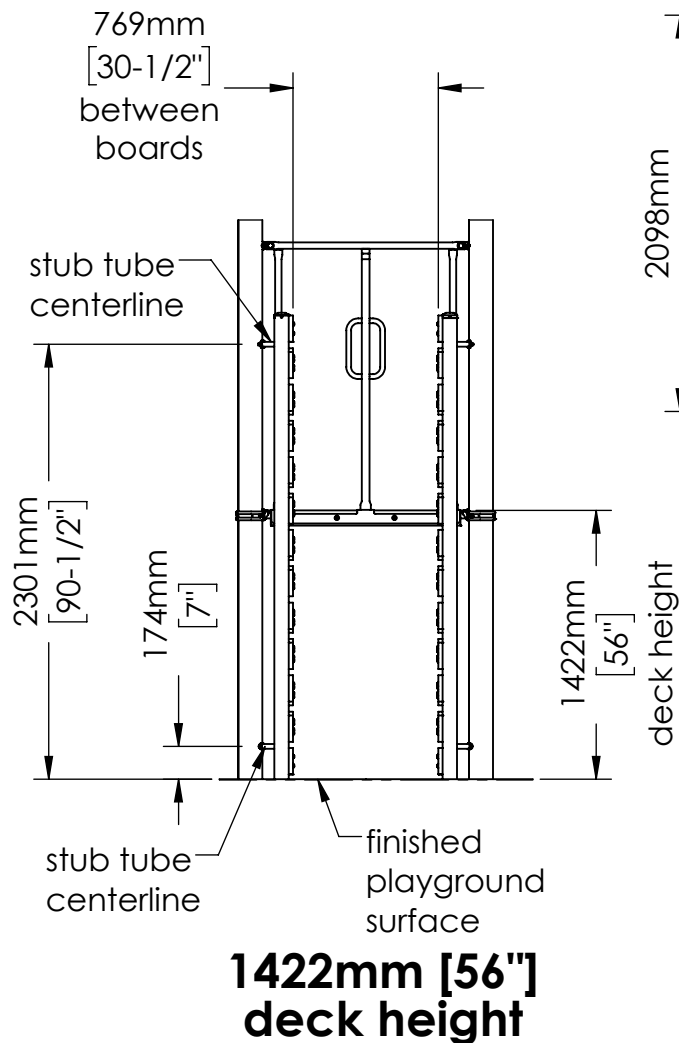
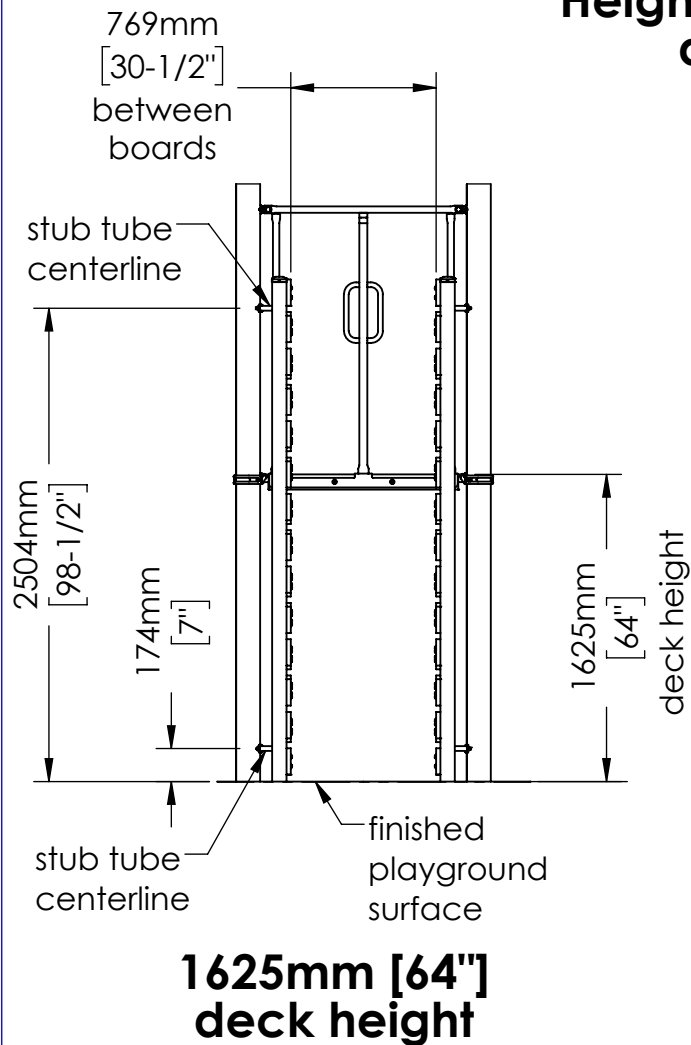
1422mm [56"] PARTS LIST

KB DBL WALL CLIMBER 56" 200203466			
Item	Code	Description	Qty
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	902863DBW	DOUBLE WALL CLIMBER ASSY, LH 56" 305SM	
	902865DBW	DOUBLE WALL CLIMBER ASSY, LH 56" ING	
2B	902855DBW	DOUBLE WALL CLIMBER ASSY, RH 56" SM	1
	902854DBW	DOUBLE WALL CLIMBER ASSY, RH 56" 305SM	
	902856DBW	DOUBLE WALL CLIMBER ASSY, RH 56" ING	
3	910031*	ENCL. KB VERSA-CLIMB	1
4	925157	DOUBLE WALL CLIMBER BOARD	26
5	910340*	TAB RAIL 33.4 F/PB	4
6	200058372	GASKET F/PB TABS (SMALL)	6
7	910918*	CAP HARDWARE BASE	2
8	910917*	CAP HDWR COVER	2
9	HW925157-1	HRDW PKG KB DBL WALL CLIMBR S1/2	1
10	HW925157-2	HRDW PKG KB DBL WALL CLIMBR S2/2	13
HRDW PKG KB DBL WALL CLIMBR S1/2 - HW925157-1			
11	300002750	SCREW T-27 TORX ROUND WASHER HD	12
12	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
13	200002030	SCREW MACH BUTTON HEAD M10 X 1.5 X 30mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	10
16	200066126	DRIVER BIT T-27 TAMPER-RESISTANT F/PB	1
HRDW PKG KB DBL WALL CLIMBR S2/2 - HW925157-2			
17	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55MM	8
18	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8

1220mm [48"] PARTS LIST

KB DBL WALL CLIMBER 48" 200203465			
Item	Code	Description	Qty
1C	902867DBW	DOUBLE WALL CLIMBER ASSY, LH 48" SM	1
	902866DBW	DOUBLE WALL CLIMBER ASSY, LH 48" 305SM	
	902868DBW	DOUBLE WALL CLIMBER ASSY, LH 48" ING	
2C	902858DBW	DOUBLE WALL CLIMBER ASSY, RH 48" SM	1
	902857DBW	DOUBLE WALL CLIMBER ASSY, RH 48" 305SM	
	902859DBW	DOUBLE WALL CLIMBER ASSY, RH 48" ING	
3	910031*	ENCL. KB VERSA-CLIMB	1
4	925157	DOUBLE WALL CLIMBER BOARD	24
5	910340*	TAB RAIL 33.4 F/PB	4
6	200058372	GASKET F/PB TABS (SMALL)	6
7	910918*	CAP HARDWARE BASE	2
8	910917*	CAP HDWR COVER	2
9	HW925157-1	HRDW PKG KB DBL WALL CLIMBR S1/2	1
10	HW925157-2	HRDW PKG KB DBL WALL CLIMBR S2/2	12
HRDW PKG KB DBL WALL CLIMBR S1/2 - HW925157-1			
11	300002750	SCREW T-27 TORX ROUND WASHER HD	12
12	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
13	200002030	SCREW MACH BUTTON HEAD M10 X 1.5 X 30mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	10
16	200066126	DRIVER BIT T-27 TAMPER-RESISTANT F/PB	1
HRDW PKG KB DBL WALL CLIMBR S2/2 - HW925157-2			
17	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55MM	8
18	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8

Height from Finished Playground Surface and Distance between Boards

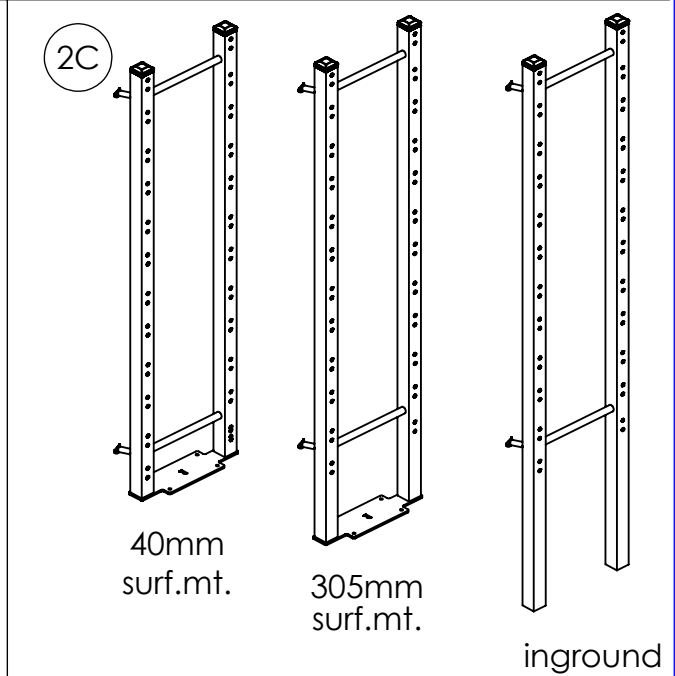
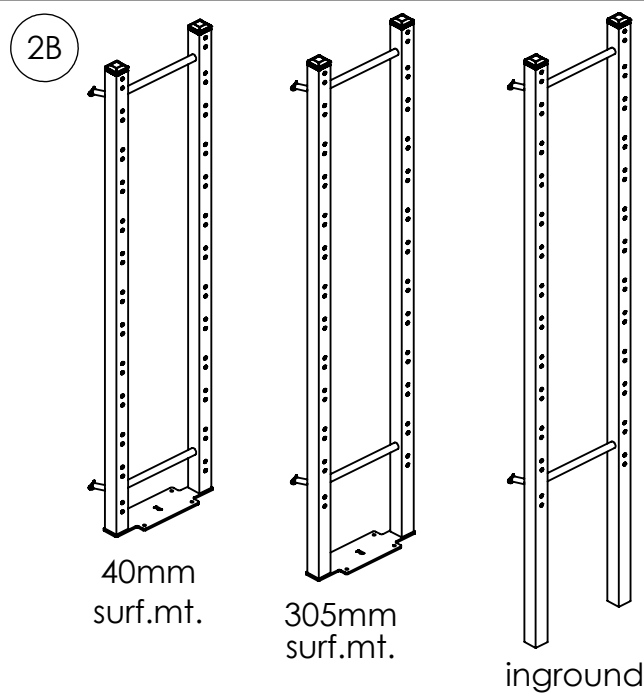
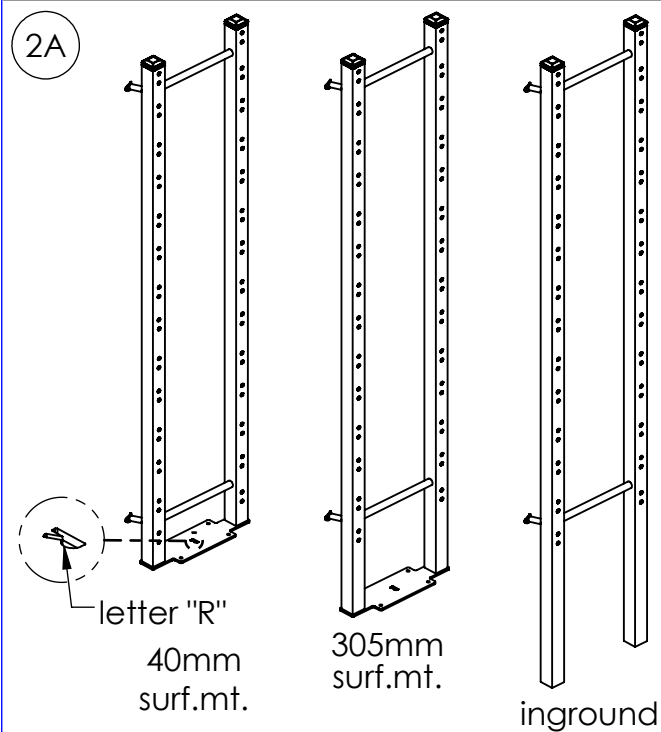
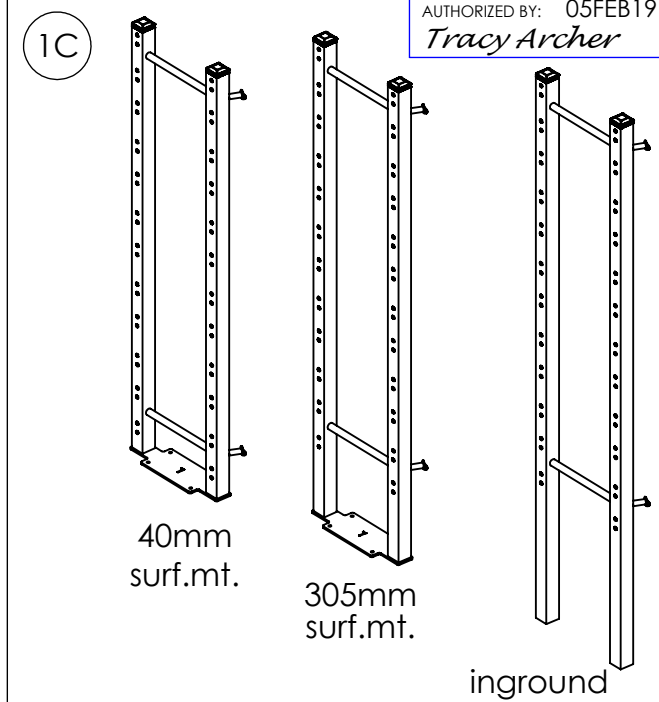
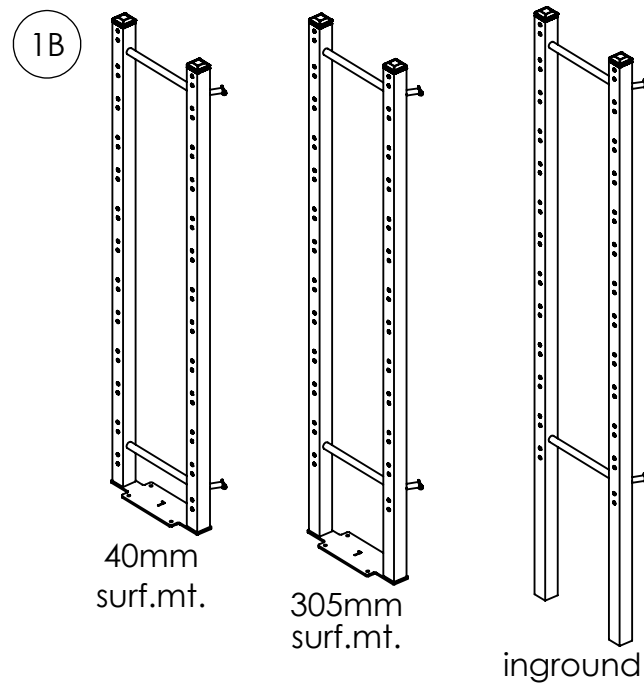
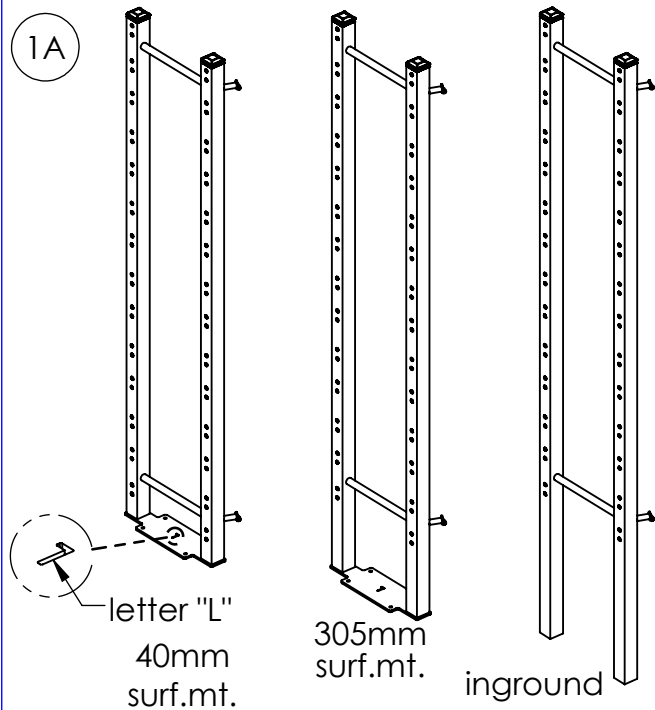


INST F/KB DBL WALL CLIMBER

KB300443B

SHEET 4 OF 6

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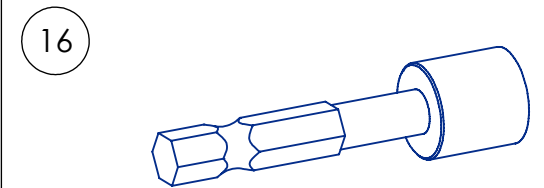
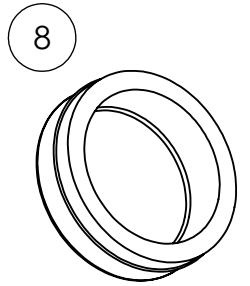
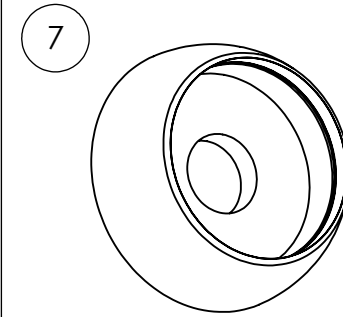
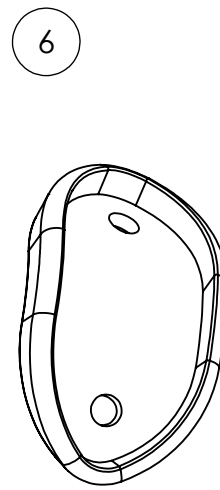
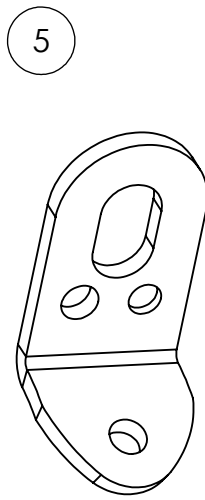
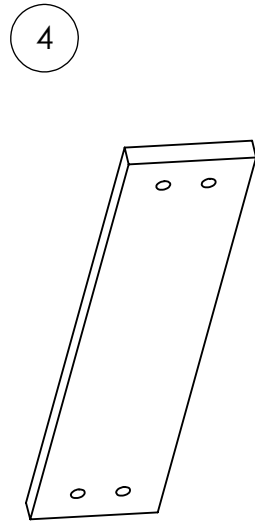
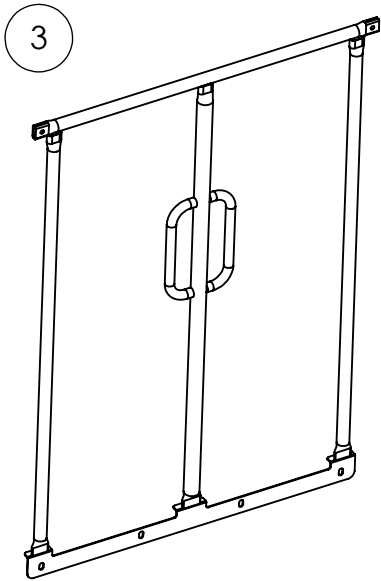


INST F/KB DBL WALL CLIMBER

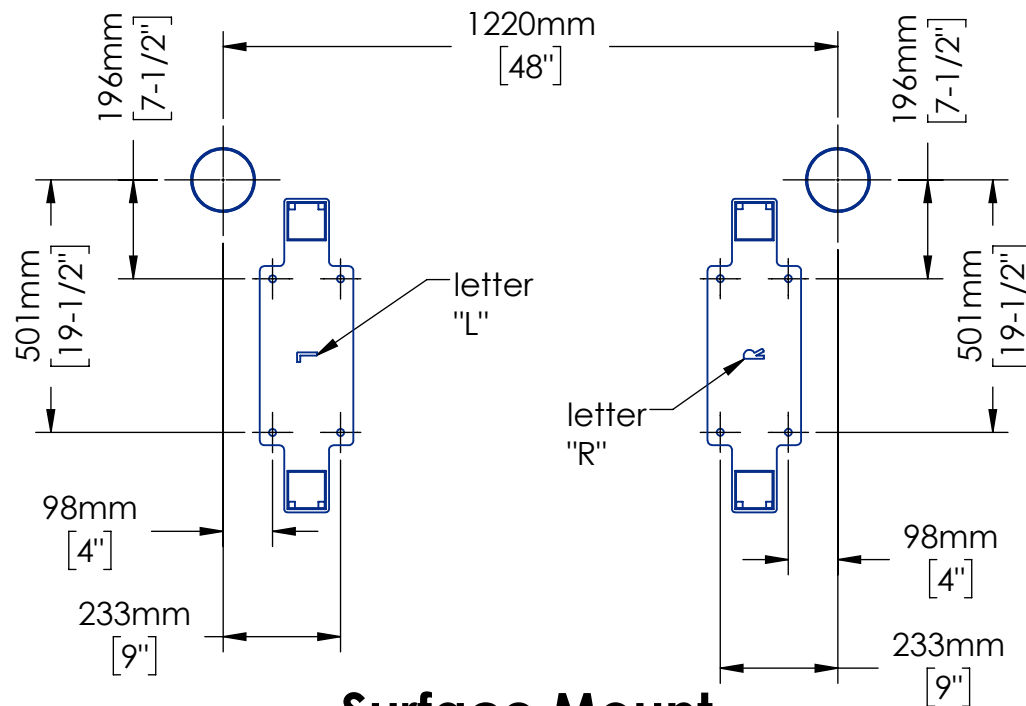
KB300443B

SHEET 5 OF 6

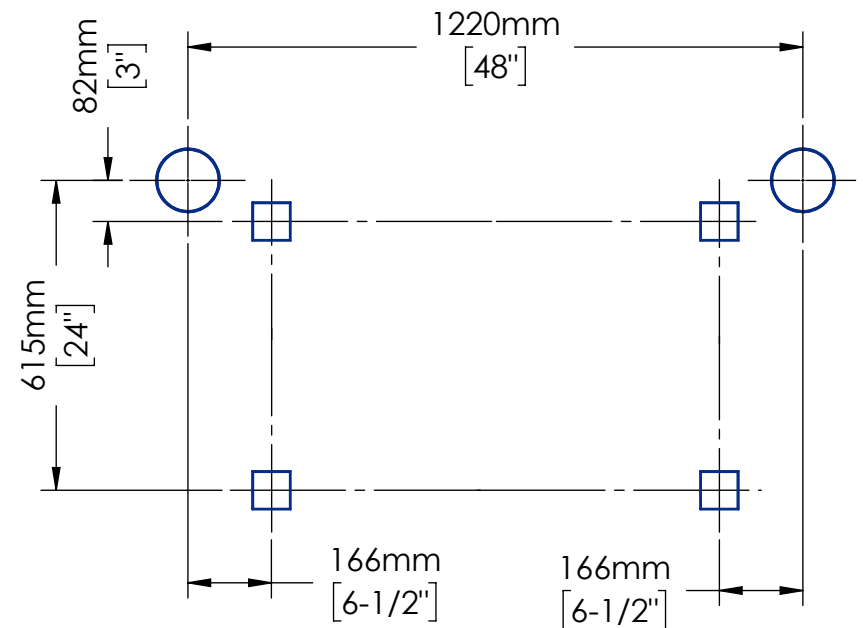
AUTHORIZED BY: 05FEB19
Tracy Archer



Footing Dimensions



Surface Mount



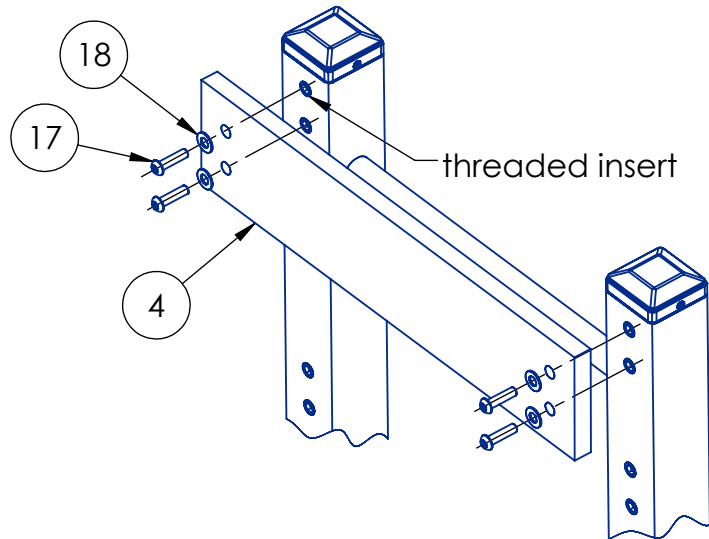
Inground Mount

INST F/KB DBL WALL CLIMBER

KB300443B

SHEET 6 OF 6

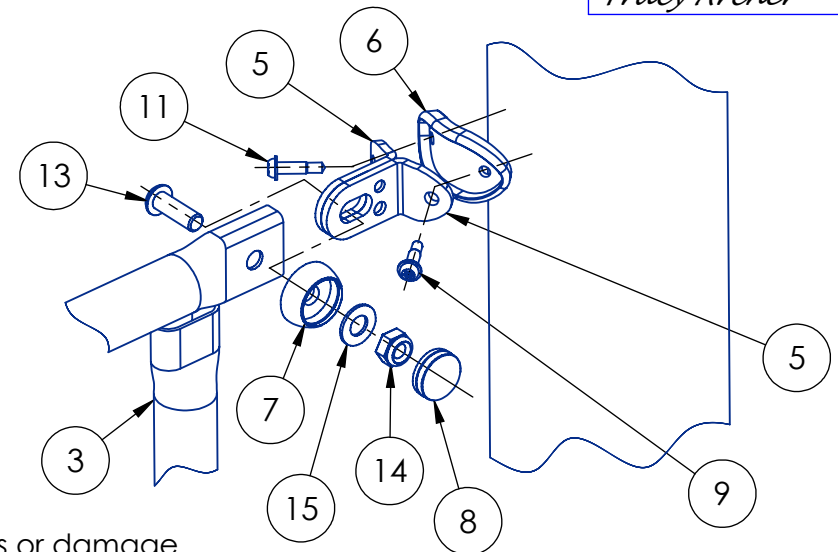
AUTHORIZED BY: 05FEB19
Tracy Archer



DETAIL 1

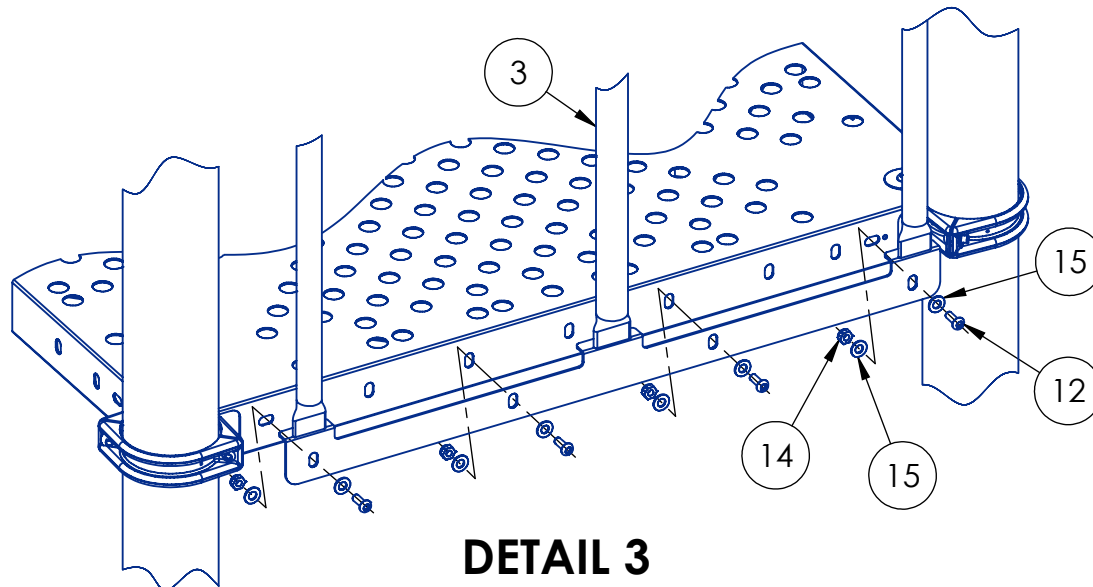
Typ 28 Places [1625mm]
Typ 26 Places [1422mm]
Typ 24 Places [1220mm]

Note: DO NOT over tighten bolts or damage may occur to the PVC coatings on components. Bolts have a thread lock patch. It is not necessary that the bolt extend into the nylon portion of the Nylock nut.

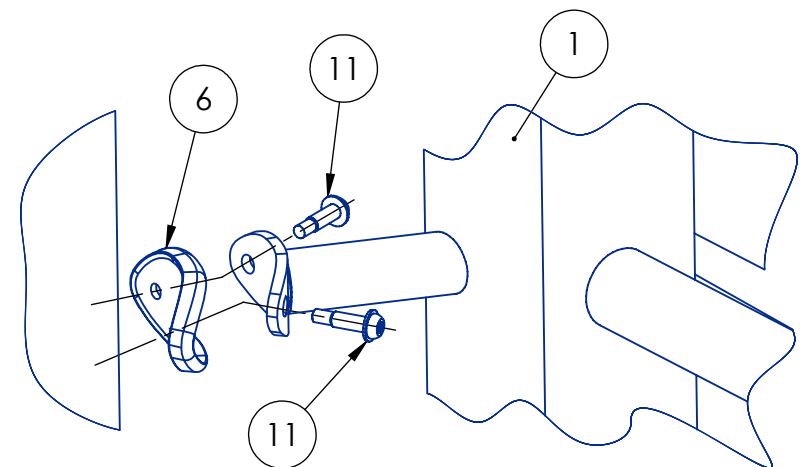


DETAIL 2

Typ 2 Places



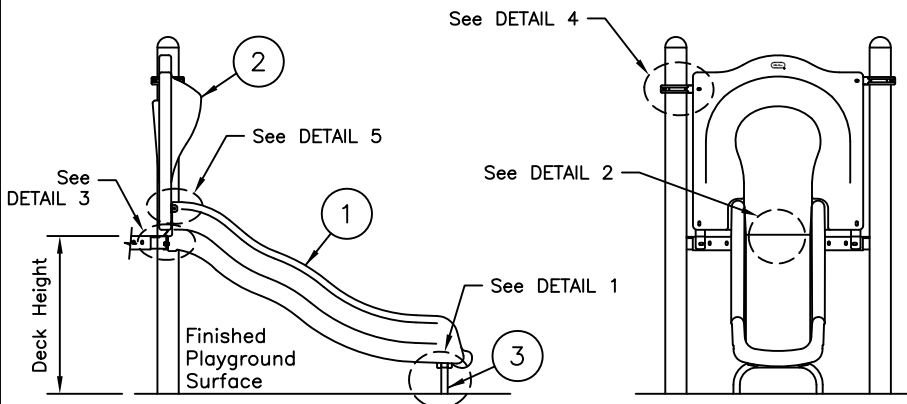
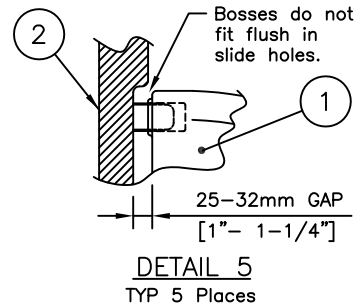
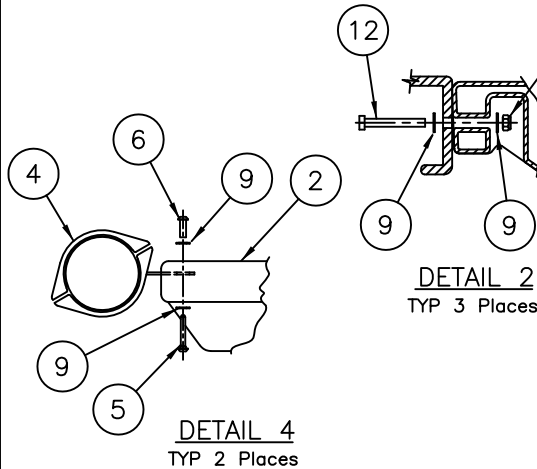
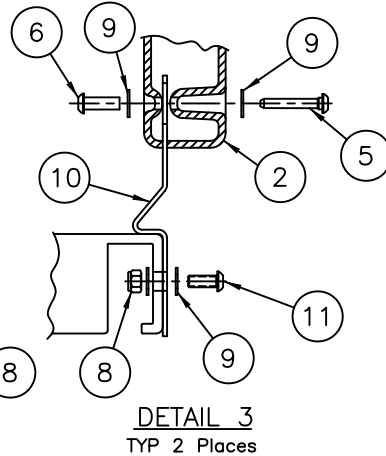
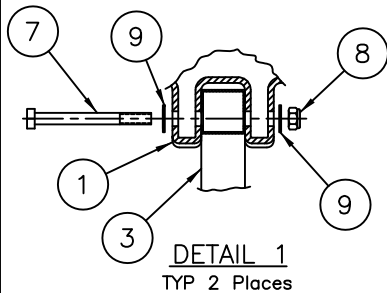
DETAIL 3



DETAIL 4

Typ 4 Places

Chris M. Newberry



NOTE: FOOTING LAYOUT ON SHEET 2

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

812mm [32"] SINGLE WIDE WAVE SLIDE	200201023
915mm [36"] SINGLE WIDE WAVE SLIDE	200006979
1016mm [40"] SINGLE WIDE WAVE SLIDE	200201024
1220mm [48"] SINGLE WIDE WAVE SLIDE	200006980
KB WAVE SLIDE 32" W/2014 HOOD	200203323
KB WAVE SLIDE 36" W/2014 HOOD	200203324
KB WAVE SLIDE 40" W/2014 HOOD	200203325
KB WAVE SLIDE 48" W/2014 HOOD	200203326

Item	Code	Description	Qty.
1	-	SINGLE WIDE WAVE SLIDE KB	1
2A	-	HOOD F/KB SGL. WD. WAVE SLIDE	1
2B	-	KB SGL WIDE SLIDE HOOD (2014)	1
3	-	SUPP. END SGL. WD. WAVE SLIDE	1
4	-	KB PANEL CLAMP	2
10	200117149	TAB F/PANEL MOUNTING F/KB BRN	2

HDWR BAG F/KB 915/1220 SGL.WD.SLIDE (MM) 200007674

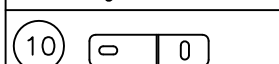
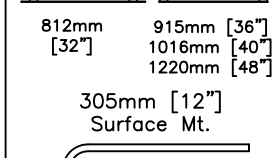
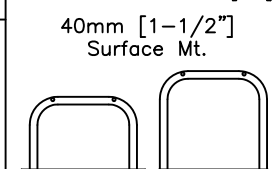
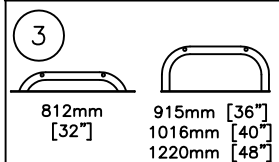
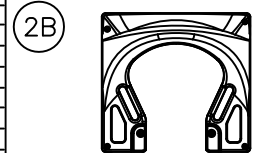
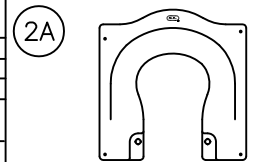
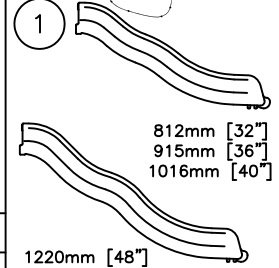
Item	Code	Description	Qty.
5	200002142	BOLT M8 X 1.25 MALE 57.5 mm	4
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	4
7	200001875	CAP SCREW HEX HEAD M10 1.50 X 110mm	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
9	200002079	WASHER FLAT M11 23 X 12 X 1.6 mm	22
11	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	2
12	200001859	CAP SCREW HEX HEAD M10 X 1.50 X 75mm	3

Application

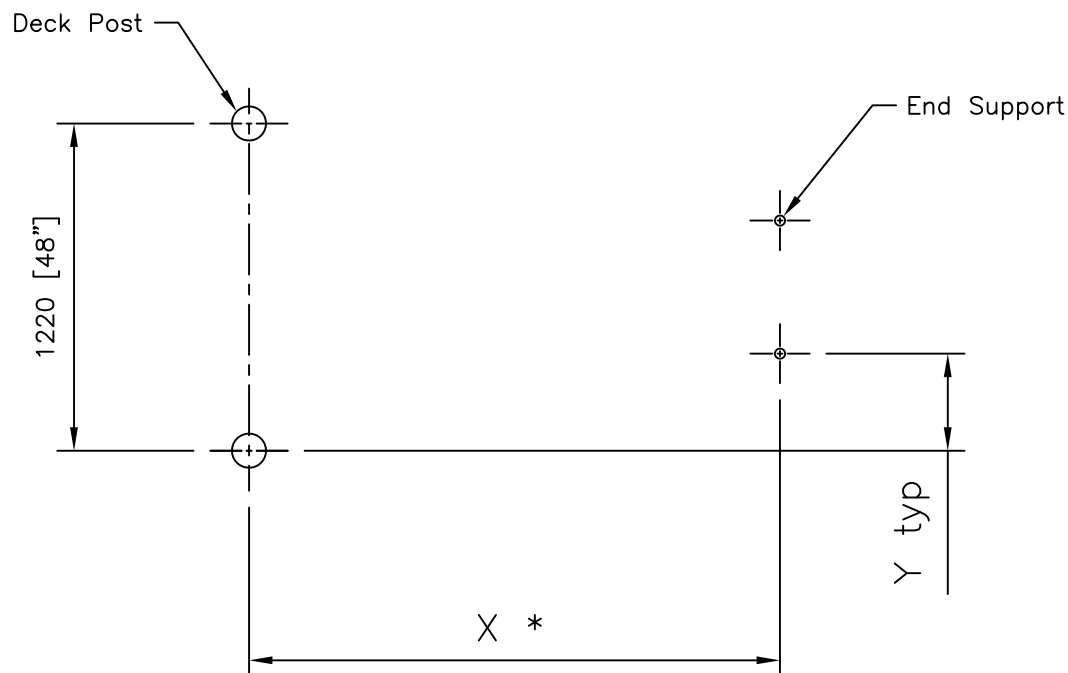
- Age Groups: (2-5 year olds) & (5-12 year olds).
- The exit region should be no higher than 280 [11"] from finished playground surface for slides with an elevation no greater than 1220 [48"].
- For slides with an elevation greater than 1220 [48"], exit region should be between 180-380 [7"-15"].
- Runout slope must be between 0 to -4 degrees.

Installation Instructions

1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1.
3. Place the support in the footing and attach the Slide to the deck edge as shown in DETAIL 2. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the Slide Hood, into the holes provided in the side walls of the Slide. Push the hood in until FIRMLY in place. The Hood has been designed to resist string entanglements, therefore, the bosses do not fit flush in the Slide holes (see DETAIL 5). Insert the deck mounting tabs into the slots in the lower portion of the hood then to the deck edge as shown in DETAIL 3.
- (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
5. Insert panel clamps into the slots in the Hood as shown in DETAIL 4. Attach the clamps to the post. (Refer to front of manual for clamp installation detail).
6. Tighten all hardware and install clamp drive pins.
7. Complete footings and install resilient surfacing.



Footing Layout



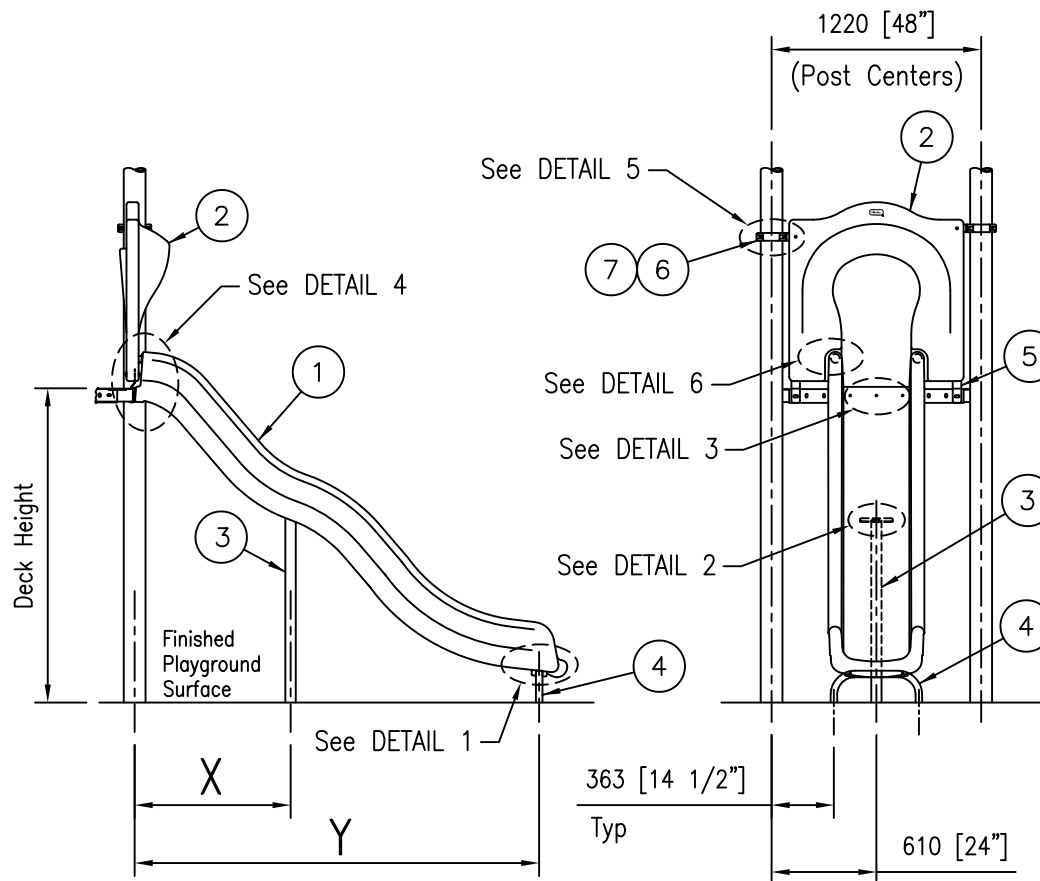
DECK HEIGHT	X		Y	
	Surface Mount	Inground	Surface Mount	Inground
812 [32"]	1650 [65"]	1650 [65"]	325 [13"]	363 [14-1/2"]
915 [36"]	1650 [65"]	1650 [65"]	363 [14-1/2"]	363 [14-1/2"]
1016 [40"]	1610 [63-1/2"]	1650 [65"]	410 [16"]	363 [14-1/2"]
1220 [48"]	1980 [78"]	1980 [78"]	363 [14-1/2"]	363 [14-1/2"]

*Reference general information section in front of manual for slide installation information.

FOOTING DIMENSIONS

Deck Height	X* (mid support)	Y* (end support)
1625 [64"]	965 [38"]	2475 [97 1/2"]
1830 [72"]	908 [36"]	2356 [92 1/2"]

* Reference general information section in front of manual for slide installation information.



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB SLIDE WAVE 1625 MM/64" 200006981
KB SLIDE WAVE 1830 MM/72" 200201043

KB SLIDE WAVE 64" W/2014 HOOD 200203327
KB SLIDE WAVE 72" W/2014 HOOD 200203328

Item	Code	Description	Qty.
1	-	SLIDE WAVE SGL.WD. 1625 MM	1
2A	-	HOOD SGL.WD. F/KB SLIDES	1
2B	-	KB SGL WIDE SLIDE HOOD (2014)	1
3	-	SUPP. MID WAVE SLIDE	1
4	-	SUPPORT END F/KK WAVE SLIDE	1
5	-	TAB F/PANEL MOUNTING F/KB	2
6	-	KB PANEL CLAMP ASSEMBLY	2

HDWR BAG F/KB 64" WAVE SLIDE (MM)
200007675

Item	Code	Description	Qty.
8	200002142	BOLT M8 X 1.25 MALE 57.5 MM	4
9	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4
10	200001859	CAP SCREW HEX HEAD M10 X 1.50 X 75mm	3
11	200001875	CAP SCREW HEX HEAD M10 X 1.50 X 110 MM	2
12	200002010	SCREW MACH BUTTONHEAD M10 X 1.50 X 16mm	4
13	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	26

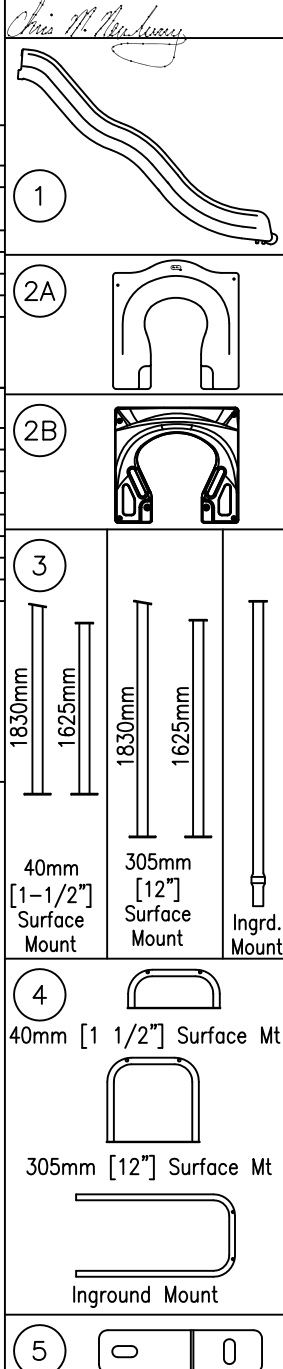
Application

- Age groups: (2-5 year olds) & (5-12 year olds).
- For slides with an elevation greater than 1220 [48"], exit region should be between 180-380 [7"-15"].
- Runout slope must be between 0 and -4 degrees.

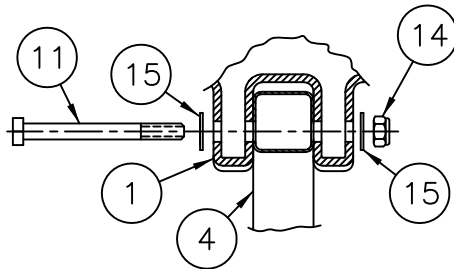
Installation Instructions

1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1. Attach the mid support to the slide in the location as shown in DETAIL 2.
3. Place the supports in the footings and attach the Slide to the deck edge as shown in DETAIL 3. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the Slide Hood into the holes provided on the top of the side walls of the Slide as shown in DETAIL 6. Push the hood in until FIRMLY in place. The Hood has been designed to resist string entanglements, therefore, the bosses do not fit flush in the Slide holes.
5. Insert the deck mounting tabs in the lower portion of the hood then attach to the deck edge as shown in DETAIL 4. (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
6. Insert panel clamps into the slots in the Hood as shown in DETAIL 5. Attach the clamps to the posts. (Refer to front of manual for clamp installation detail.)
7. Tighten all hardware.
8. Complete footings and install resilient surfacing.

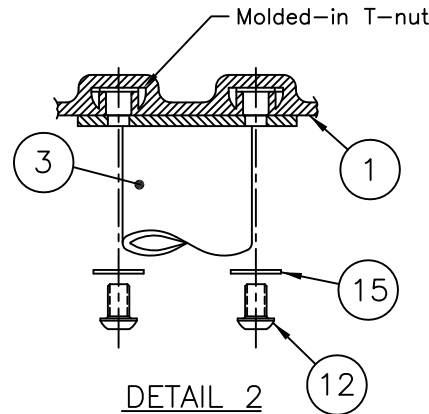
AUTHORIZED BY: 12DEC14



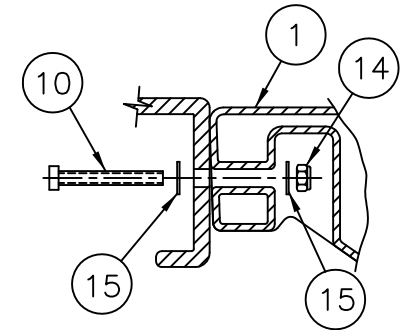
Chris M. MacLennan



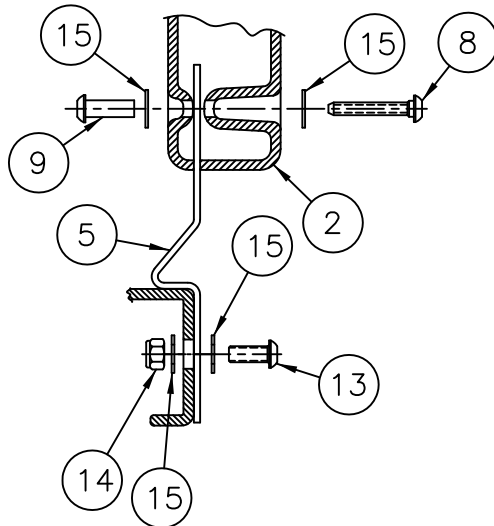
DETAIL 1
Typ 2 Places



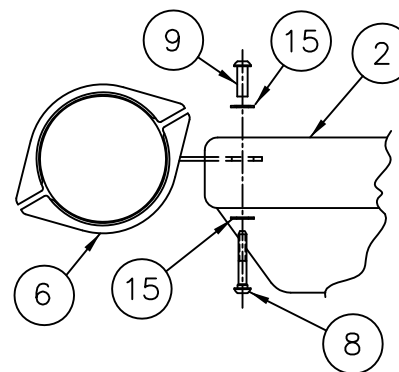
DETAIL 2
Typ 2 Places



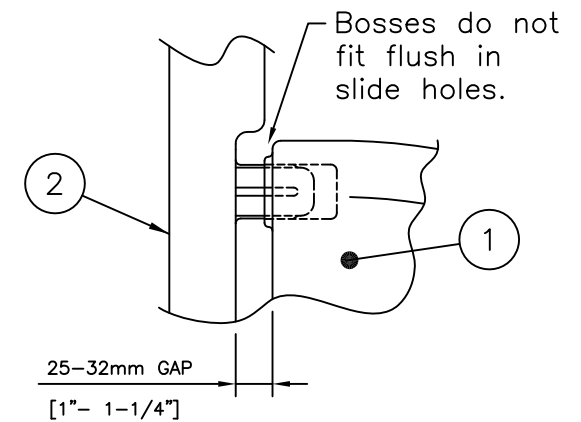
DETAIL 3
Typ 3 Places



DETAIL 4
Typ 2 Places



DETAIL 5
Typ 2 Places

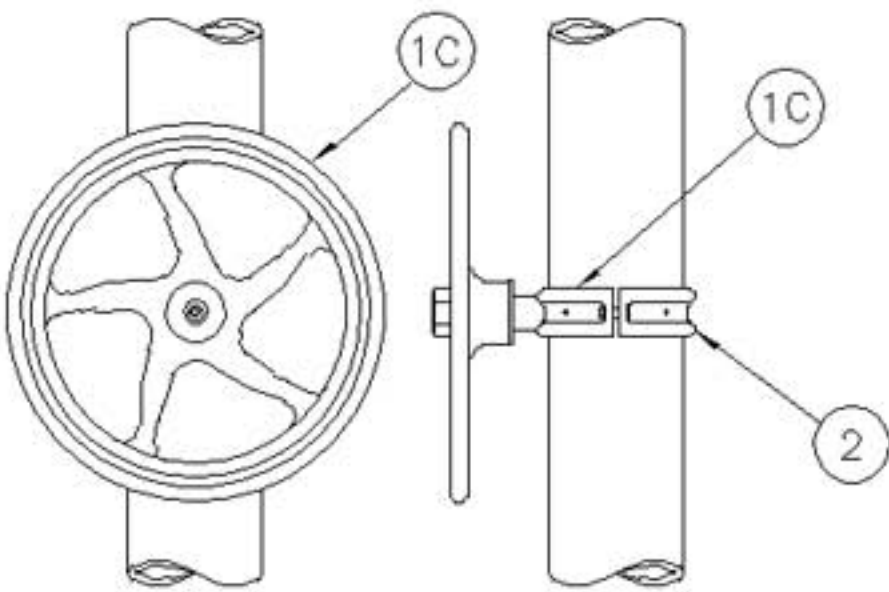


DETAIL 6
Typ 2 Places

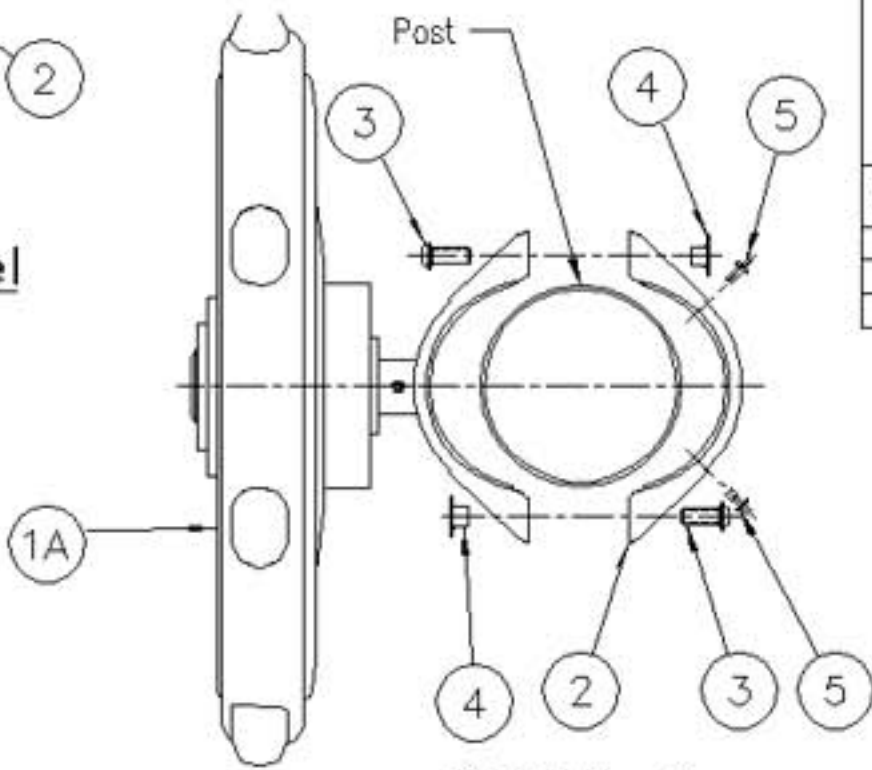


STEERING WHEEL (POST MOUNT)

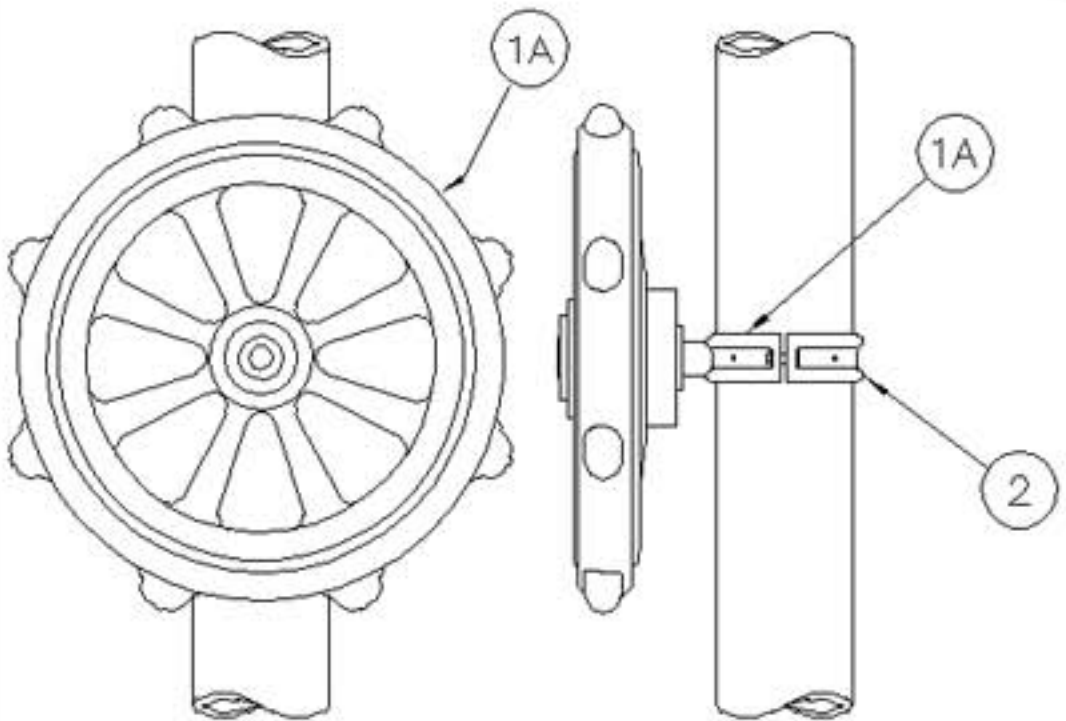
AUTHORIZED BY: 16JUN08
Shawn Slinkard



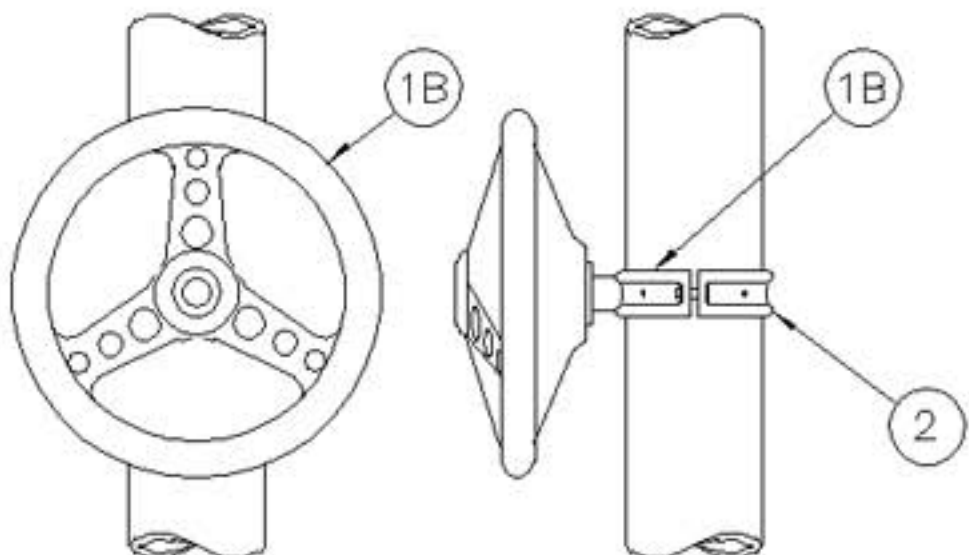
Aluminum Steering Wheel



DETAIL 1
(Ship Wheel Shown)



Ship Steering Wheel



Plastic Steering Wheel

WHEEL SHIP STEERING KB 200007091			
WHEEL PLASTIC STEERING WHEEL KB 200200424			
WHEEL ALUM. STEERING WHEEL KB 200200425			

Item	Code	Description	Qty.
1A	-	ASSY. POST MT. f/SHIP STEER WHEEL	1
1B	-	ASSY. POST MT. f/PL. STEER WHEEL	
1C	-	ASSY. POST MT. f/AL. STEER WHEEL	
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1

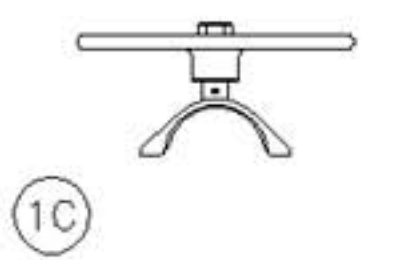
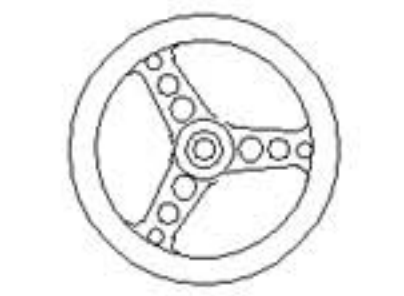
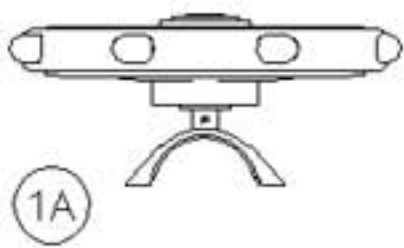
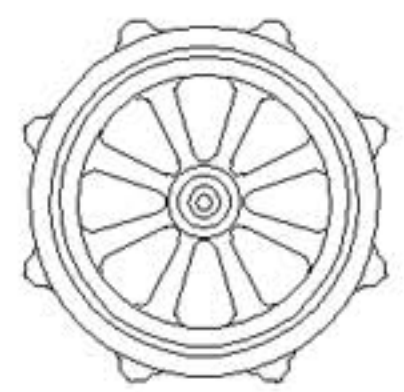
HDWR BAG F/POST MT. STEERING WHEELS 200145769			
--	--	--	--

Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2
5	200000797	HAMMER DRIVE PIN 4.7 X 11.1mm	2

Installation Instructions

1. Loosely attach clamp half (item 2) and Assy. Post Mt. f/Steer Wheel (item 1) to post. (Refer to front of manual for clamp installation detail.)

2. Position at correct height and orientation, then tighten hardware.



POLYETHYLENE COUNTER PANEL 200007096

Item	Code	Description	Qty.
1	-	PANEL COUNTER F/ KB	1
2	-	KB PANEL CLAMP	4

HDWR BAG SS F/KB DOOR/COUNTER PANELS 200007591

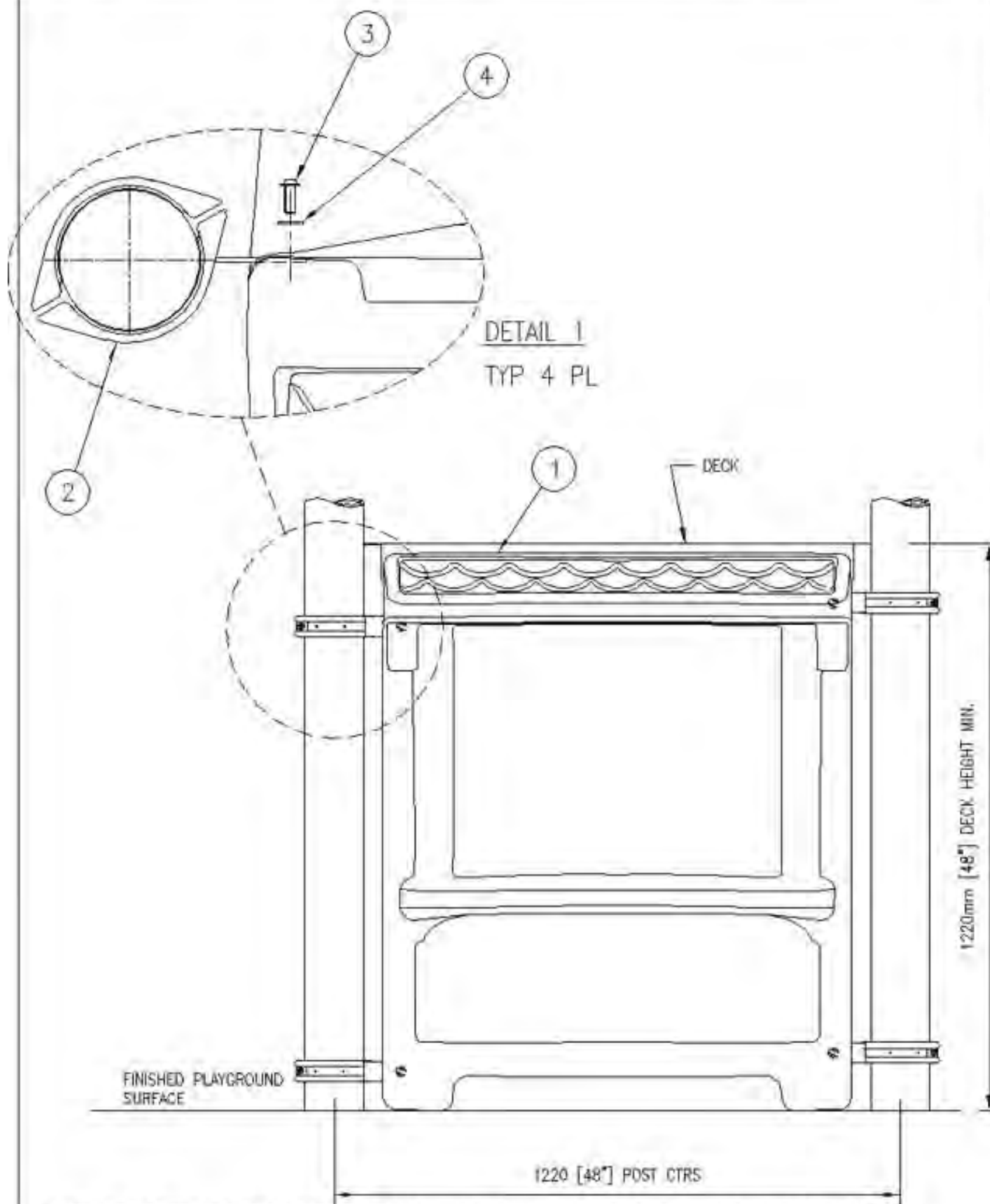
Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25mm	4
4	200002079	WASHER FLAT M11 23 X 12 X 1.6 (650012000)	4

Application AGE GROUPS (2-12 YEAR OLDS)

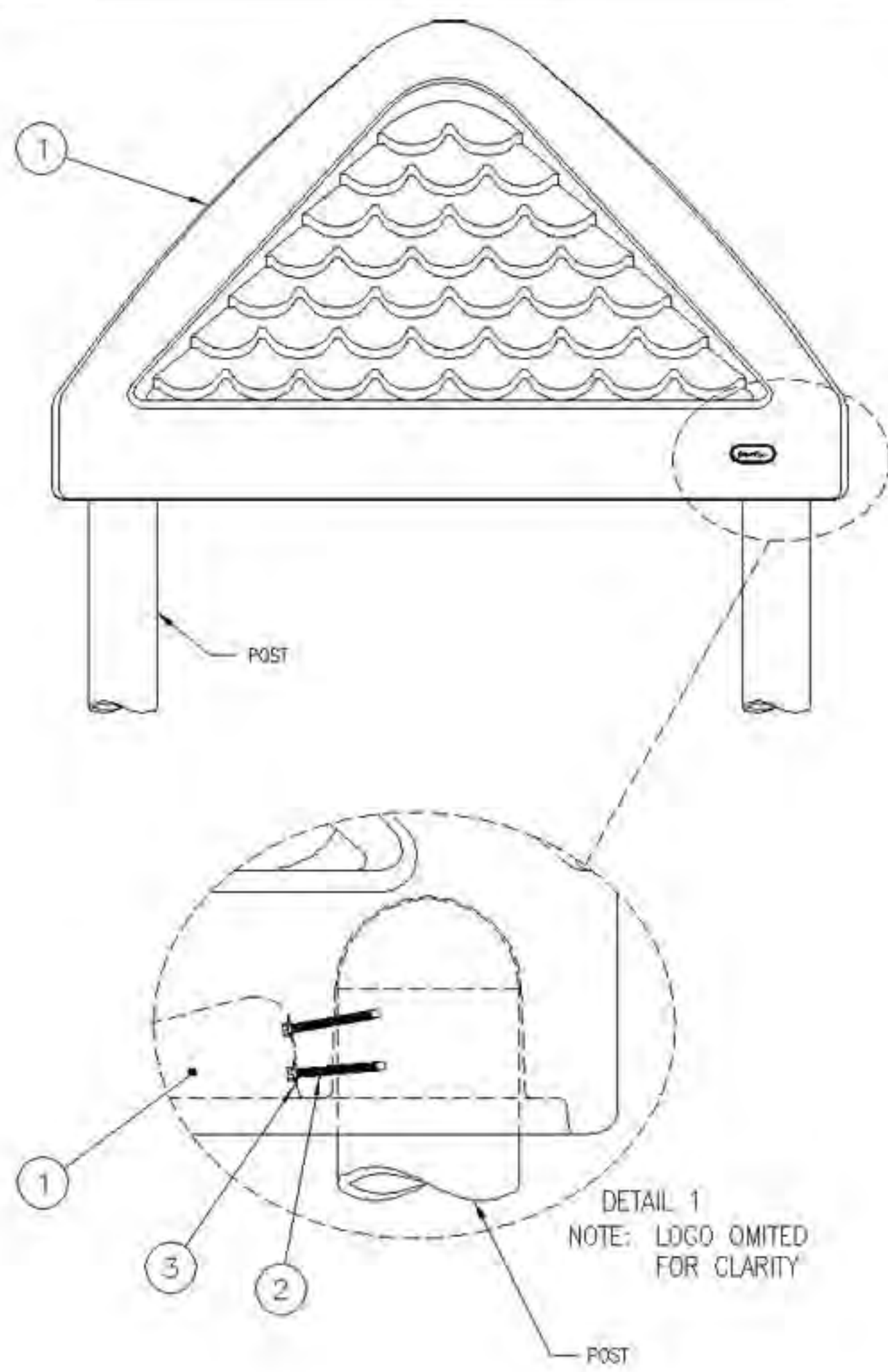
- Below deck use only
- Cannot be used as an enclosure
- Can only be mounted below a 1220 mm[48"] deck or below a 1525mm[60"] or higher deck
- Avoid entrapment areas between deck and top of panel

Installation Instructions

1. Loosely attach panel clamps to the back of panel(Refer to DETAIL 1).
2. Loosely assemble clamps to post(Refer to front of manual for clamp installation detail).
3. Position panel to correct height and tighten all hardware.



[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]



SQUARE ROOF 200007137			
Item	Code	Description	Qty.
1	-	ROOF F/KB	1
2	200002002	SCREW DRILL HEX HEAD M6.3 X 1.81 X 65mm	8
3	200002057	WASHER FLAT M6 17.5 X 7.5 1.5mm	8

Application AGE GROUPS (2-12 YEAR OLDS)

- Two roofs cannot share the same posts.
- If an adjacent deck is higher than the one under the roof, The height of the roof should be measured from the highest deck surface.

Installation Instructions

- Lower roof onto previously positioned posts and fasten with hardware (Refer to Detail 1).

INST F/NRG FREESTYLE RAIL TO KB

200313255

NRG60008A

SHEET 1 OF 4

AUTHORIZED BY: 14JAN13

ERIC CLOWDUS

NRG FREESTYLE RAIL TO KB 200202895

Item	Code	Description	Qty
1	-	KB TO RAIL LINK	1
2	200309038	RAIL SHROUD	2
3	-	CLAMP HALF W/O WELDED ATTACHMENT	2

HDWR BAG F/NRG FREESTYLE KB 200312877

4	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	3
5	200002133	BOLT M8 X 1.25 MALE 27.5 MM	3
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	6

HDWR BAG F/KB CLAMPS

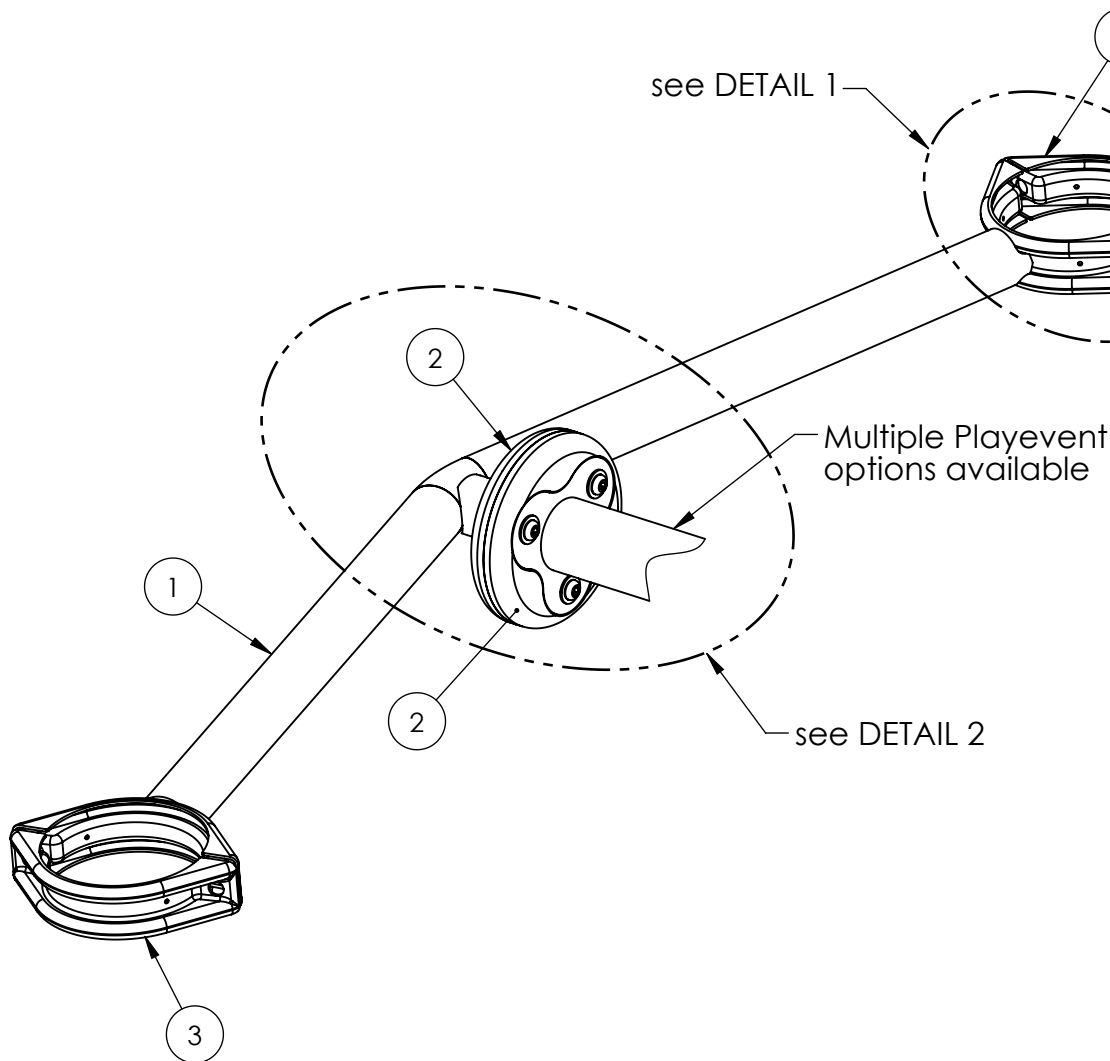
7	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
8	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
9	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4

Application

- Age group: 5 - 12 year olds

Installation Instructions

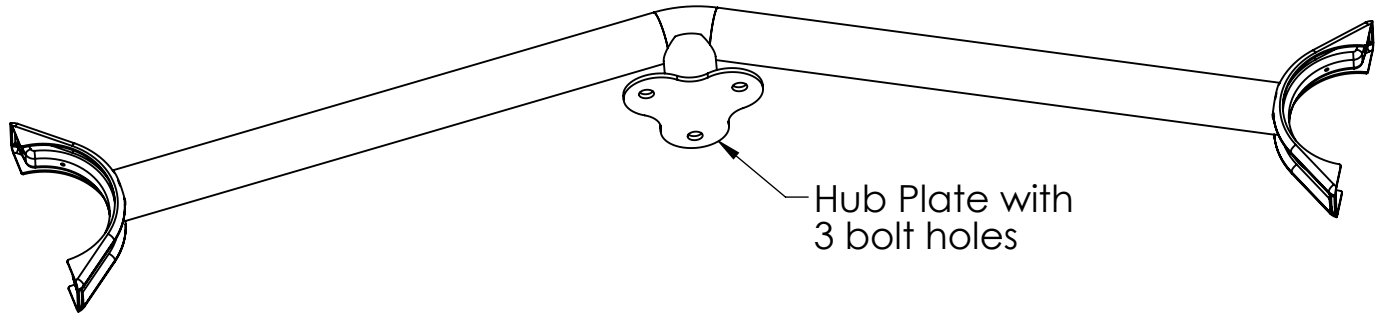
1. Loosely assembly clamp half (item 3) with Link (item 1) as shown in DETAIL 1.
2. Place on posts at correct height as shown on sheet 4, and check for level. See sheet 2 for correct orientation of hub plate. Tighten hardware. Do not install clamp drive pins at this time.
3. Install playevent as shown in DETAIL 2. Check for level.
4. Tighten all hardware and install clamp drive pins.



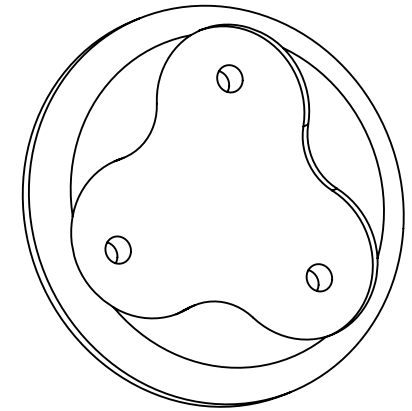
INST F/NRG FREESTYLE RAIL TO KB

200313255
NRG60008A
SHEET 2 OF 4
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS

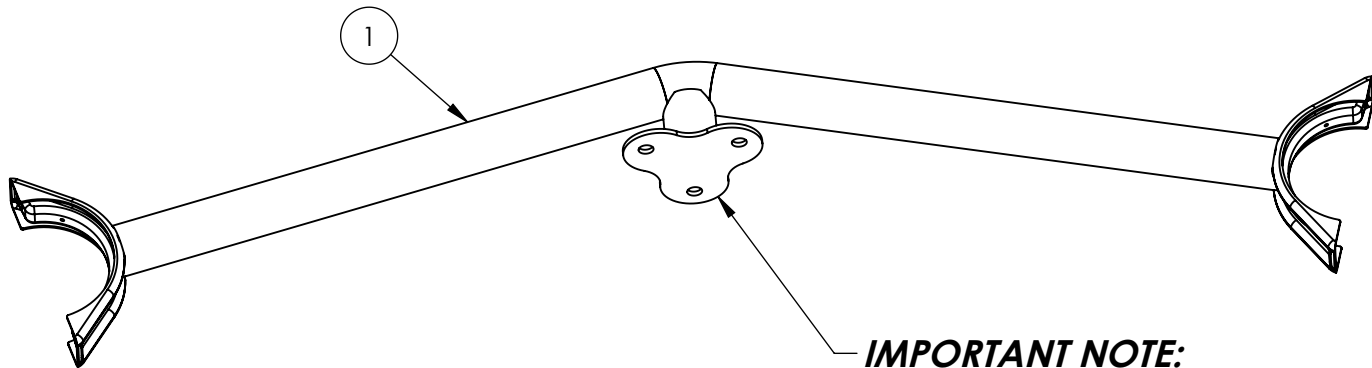
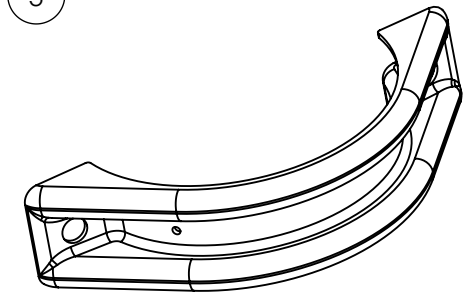
1



2



3

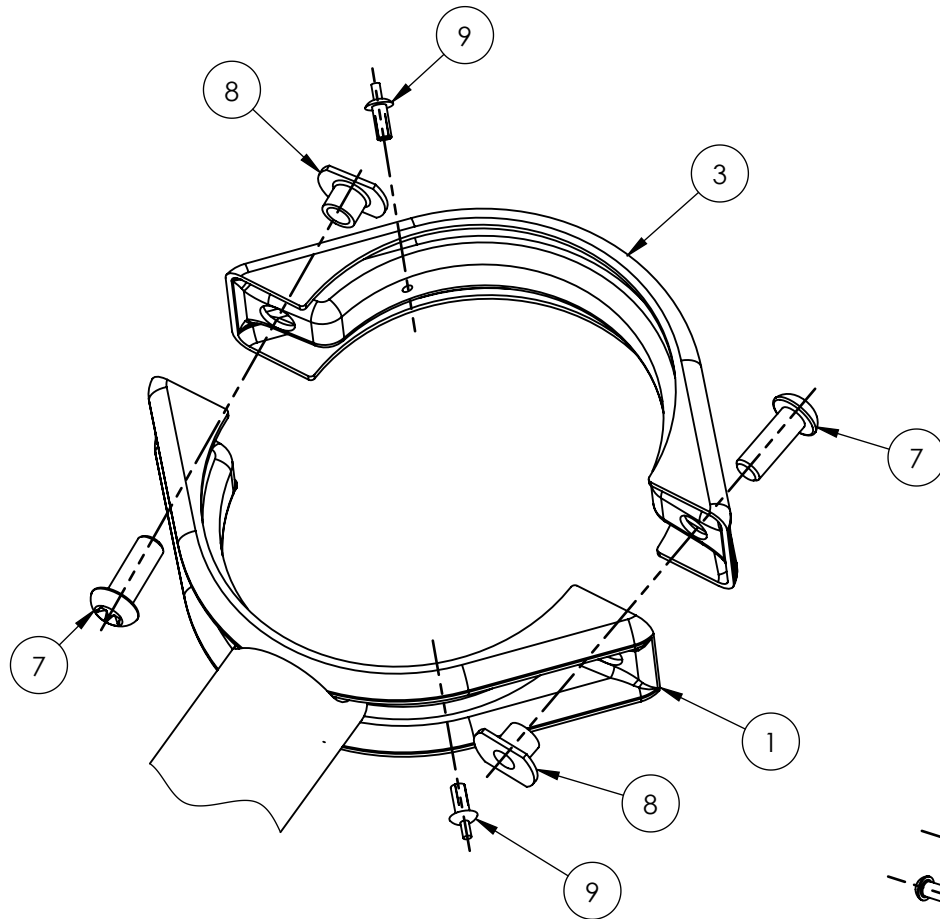


IMPORTANT NOTE:
always install on posts with hub
plate oriented as shown - the
side with one bolt hole should
always be on the bottom

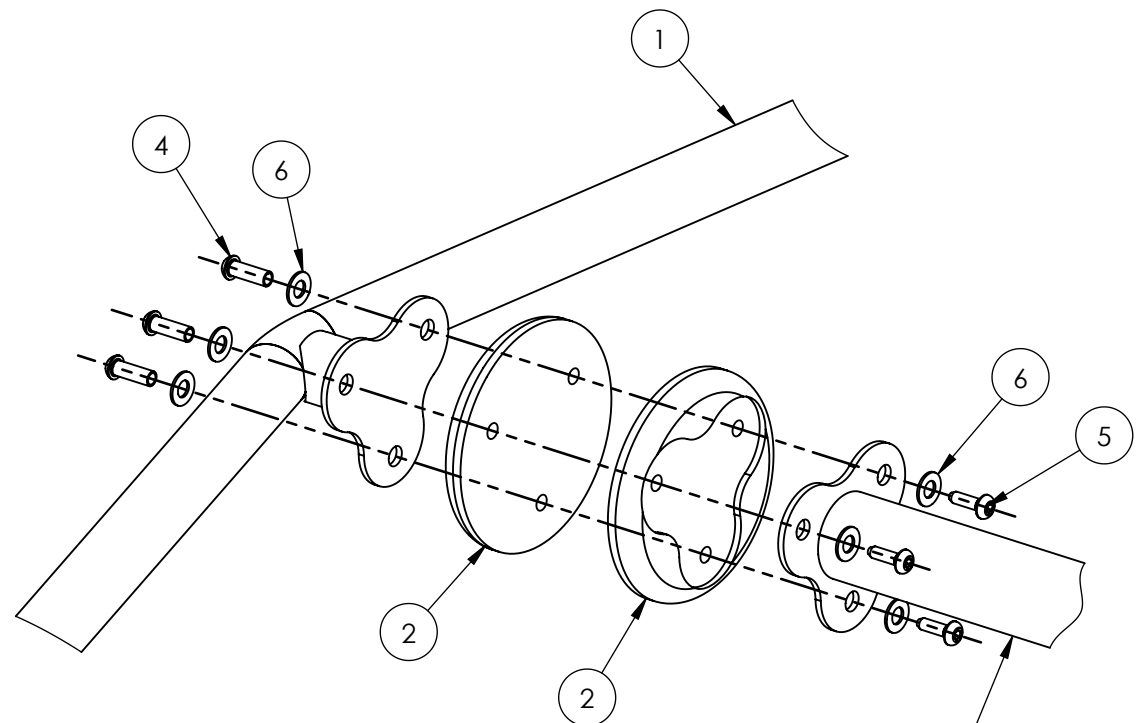
HUB PLATE ORIENTATION

INST F/NRG FREESTYLE RAIL TO KB

200313255
NRG60008A
SHEET 3 OF 4
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS



DETAIL 1
Typ 2 Places



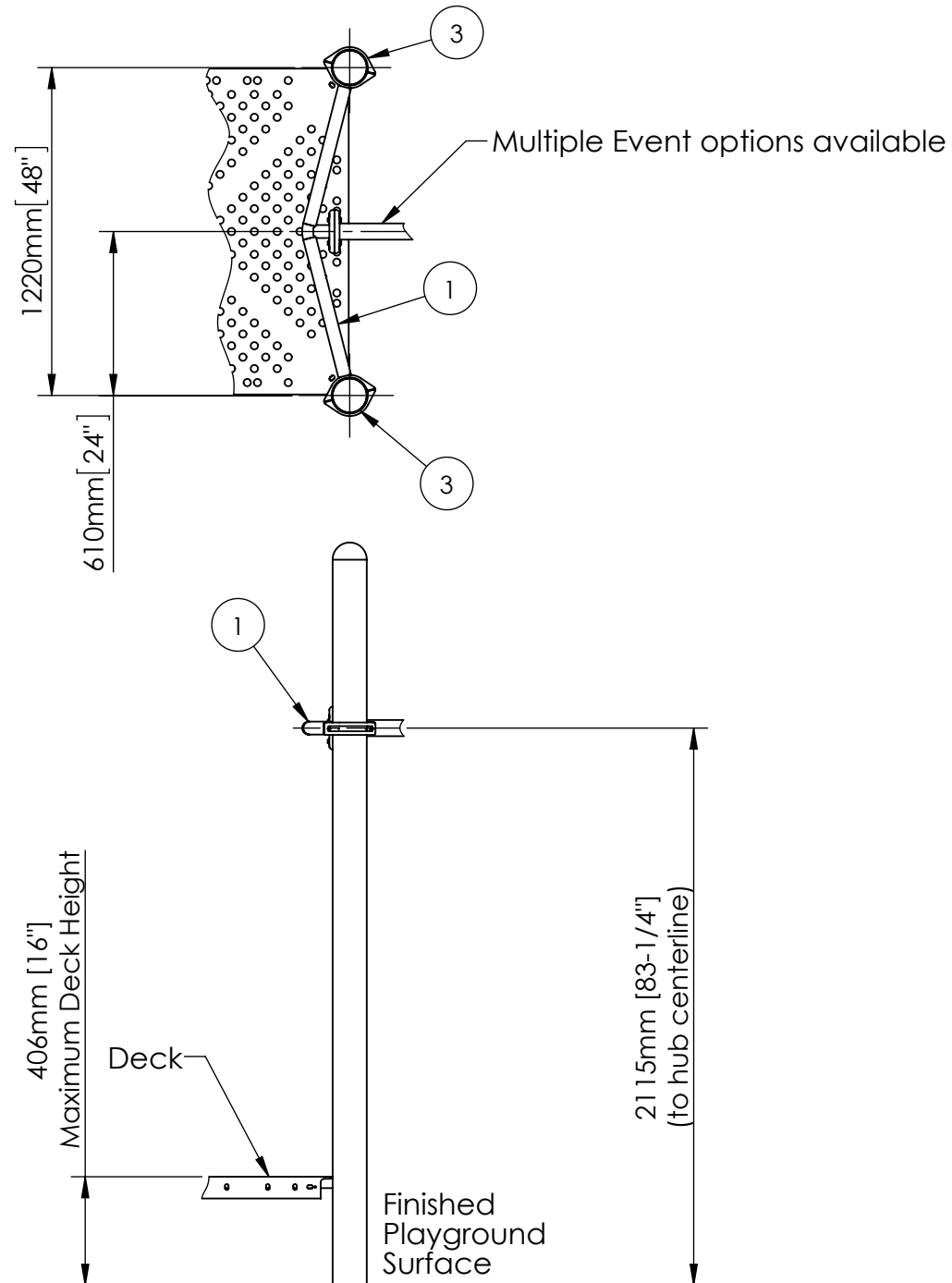
Multiple Playevent
options available

DETAIL 2

INST F/NRG FREESTYLE RAIL TO KB

200313255
NRG60008A
SHEET 4 OF 4
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS

TOP AND SIDE VIEWS





Project Number: R0324190109

PlayArea: PlayArea_1 | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

Please, read all information in this manual
before starting to install your equipment.

Date: 2/25/2019 12:00:00 AM

GATOR WALK (STATIONARY)

200072664
19000388

GATOR WALK SCULPTURE 200074145
(INGROUND MOUNT 200074143)

AUTHORIZED BY:
Chris White 19AUG03

Item	Code	Description	Qty.
1	-	GATOR WALK SCULPTURE	1
2A	200023329	POST ING BRN 1/LOOSE FILL DINOSAUR/ GATOR	4
3	200143960	SCREW LAG HEX 3/8" X 1-1/4" 18-8 S.S.	12
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	12

(SURFACE MOUNT 200024673)

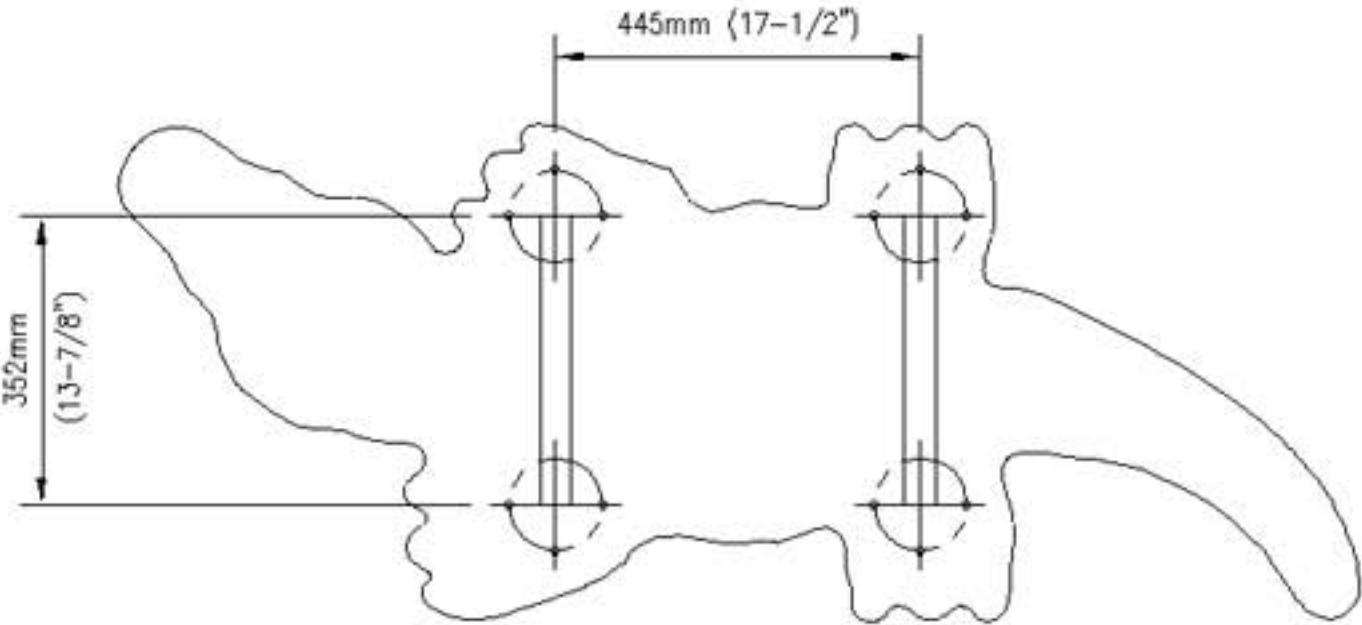
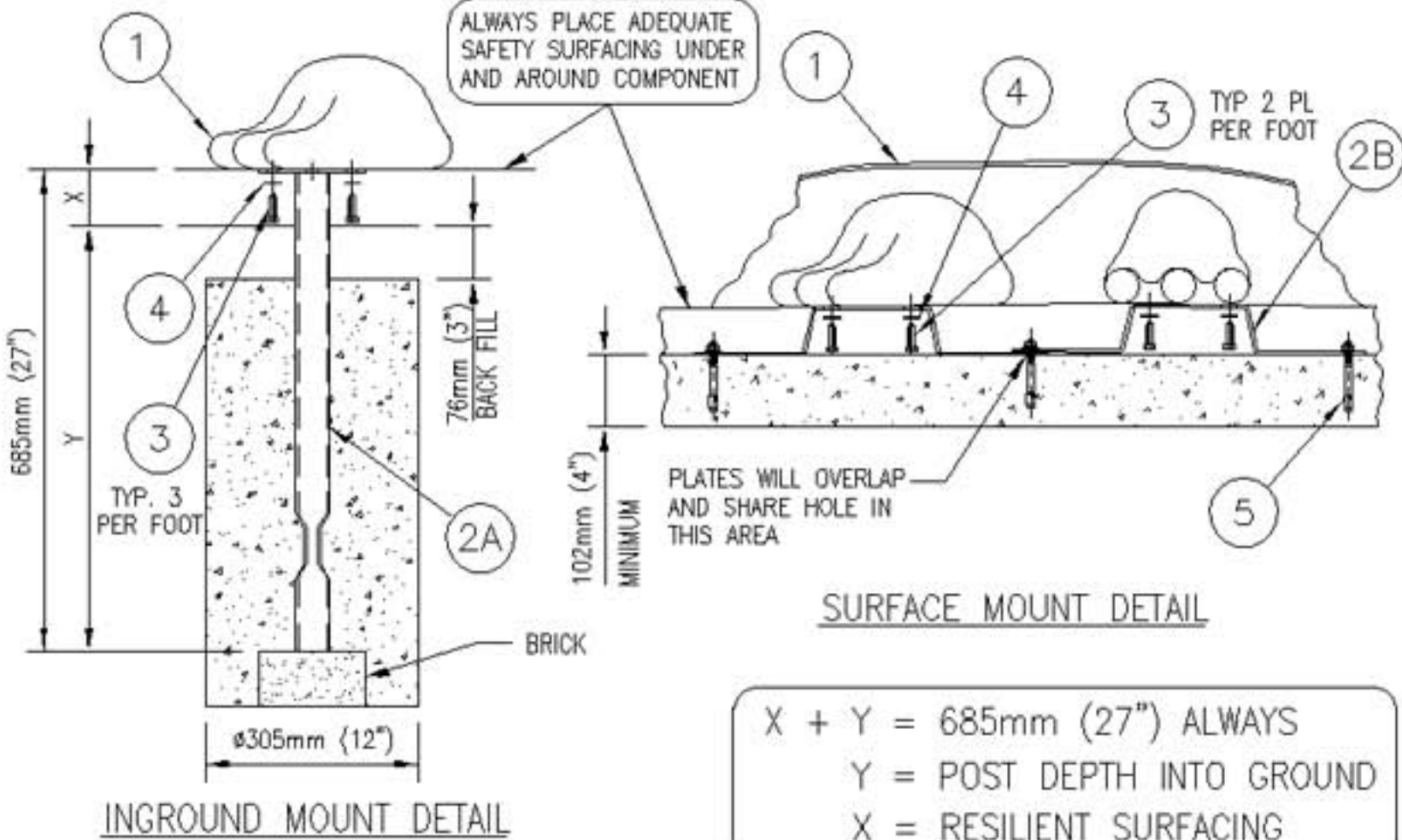
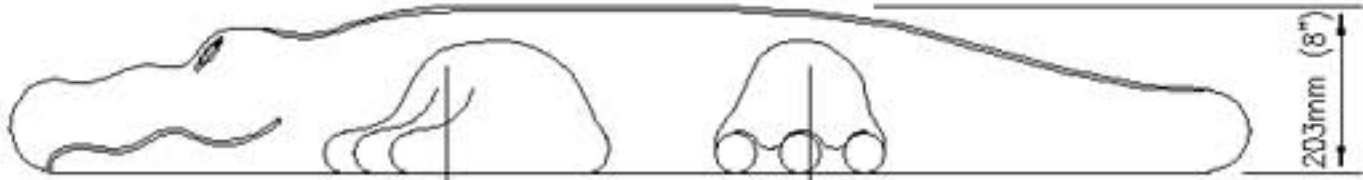
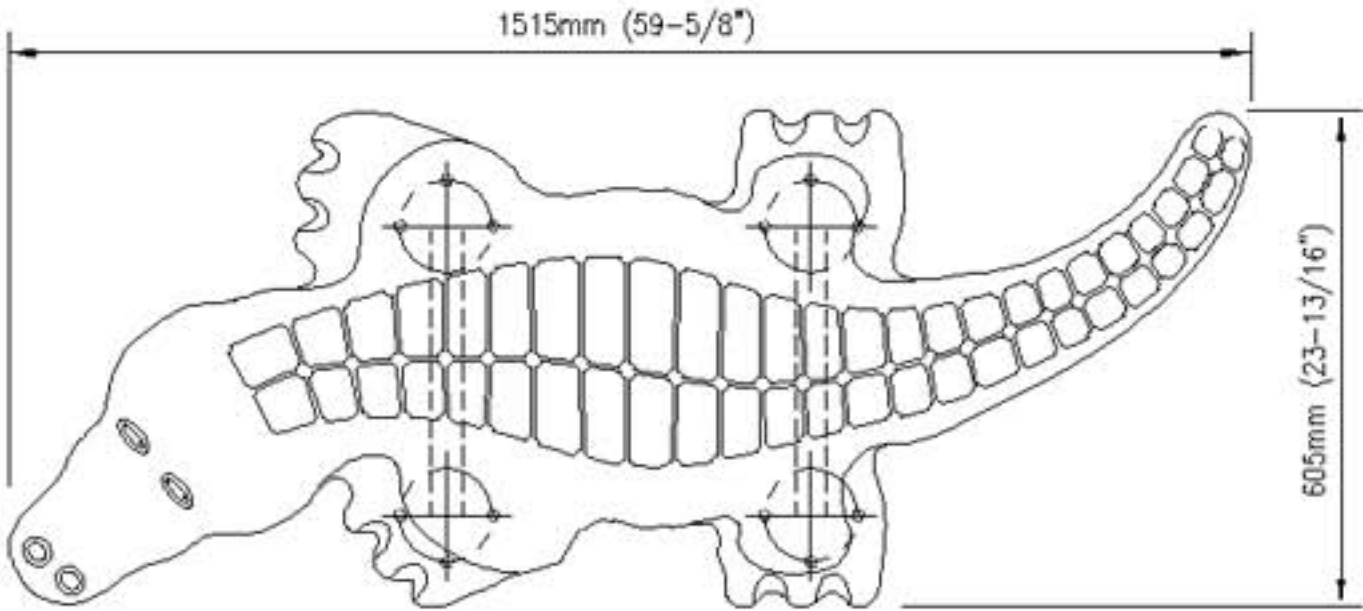
Item	Code	Description	Qty.
1	-	GATOR WALK SCULPTURE	1
2B	200024671	PLATE SRFMT f/DINOSAUR/ GATOR HOT DIPPED	4
3	200143960	SCREW LAG HEX 3/8" X 1-1/4" 18-8 S.S.	8
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	8
5	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100mm	8

Application

- Recommended for age groups: (2-5 year olds) & (5-12 year olds)
- Cannot be installed under or above a deck.
- This component is an independent part and does not attach to a structure.
- If installing in conjunction with a structure, make sure the sculpture is installed outside of any fall zones.

Installation Instructions

1. Attach post or strap to each gator foot, (depending on mount type) as shown in the footing detail.
2. Lower posts into footing holes or attach straps to concrete footing as shown in the footing detail.
3. Finish by installing resilient surfacing.





Project Number: R0324190109

PlayArea: PlayArea_1 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

Please, read all information in this manual
before starting to install your equipment.

Date: 2/25/2019 12:00:00 AM



ARCH 8' AND 10' -- SHORT, STANDARD, & LONG BEAM

200199547
I800034C-S1
Sheet 1 of 9

Installation Instructions

1. Find and mark the appropriate locations for the footings. Make sure you have adequate area for the fall zone as specified on sheets 5, 6, and 7.
2. Dig footings to appropriate depth and diameter as shown on Footing Detail on sheet 2.
3. Place a brick in each footing hole, adjusting for proper level height of beam as specified on sheets 3 and 4.
4. Set arch posts (item 1) in footings and attach beam (item 2) to posts as shown in DETAIL 1. One multi-bay post and one additional beam will be required for each additional bay.
5. Make sure beam is level and at the proper height. Tighten all hardware.
6. Pour concrete. Allow at least 48 hours to cure.
7. Put 76mm (3") earth backfill in place.
8. Install resilient ground surfacing.
9. See separate installation instructions for swing seat installation details, and placement of age appropriate labels on the arches.

Note: For additional swing bays repeat steps 1–5, insuring all arch posts are plumb, and all beams are level and at the proper height. Then, complete structure with steps 6–9.

Specifications

Beam shall be fabricated from 60mm (2.375") O.D. 5 gauge pre-galvanized steel tube. It shall be painted per PPLT PAINT Specification.

Legs and Arch are to be of one piece construction fabricated from 127mm (5") 11 gauge pre-galvanized steel tube. It shall be painted per PPLT PAINT Specification.

Anti-Wrap-over swing bearings (U.S. Patent 6,123,480) shall be fabricated from 415D sand cast Aluminum Bronze with injection molded nylatron plastic sleeve.

AUTHORIZED BY: 10JAN18
STEVE ADKINS

ARCH 8' SHORT BEAM 200200414

Item	Code	Description	Qty.
1A	–	POST/S F/KB 8' ARCH SWG W/STKR	2
2A	–	SHORT BEAM F/INCL.SWING	1

ARCH 8' STANDARD BEAM 200202228

Item	Code	Description	Qty.
1A	–	POST/S F/KB 8' ARCH SWG W/STKR	2
2B	–	BEAM HD SWING W/BEARINGS(3200)	1

ARCH 8' LONG BEAM 200200318

Item	Code	Description	Qty.
1A	–	POST/S F/KB 8' ARCH SWG W/STKR	2
2C	–	BEAM W/BEARINGS F/INCL.SWING (3700)	1

ARCH 10' SHORT BEAM 200202830

Item	Code	Description	Qty.
1B	–	POST F/KB 10' ARCH SWING (WITH STICKERS)	2
2A	–	SHORT BEAM F/INCL.SWING	1

ARCH 10' STANDARD BEAM 200202719

Item	Code	Description	Qty.
1B	–	POST F/KB 10' ARCH SWING (WITH STICKERS)	2
2B	–	BEAM HD SWING W/BEARINGS(3200)	1

HDWR BAG F/KB ARCH SWING BEAM 200199519

Item	Code	Description	Qty.
3	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4
4	200002142	BOLT M8 X 1.25 MALE 57.5MM	4
5	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	2

ARCH 8' AND 10' -- SHORT, STANDARD, & LONG BEAM

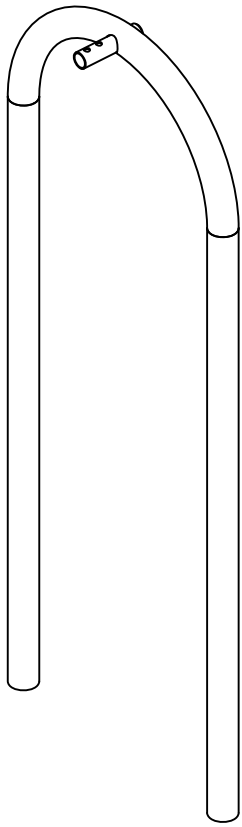
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1800034C-S2

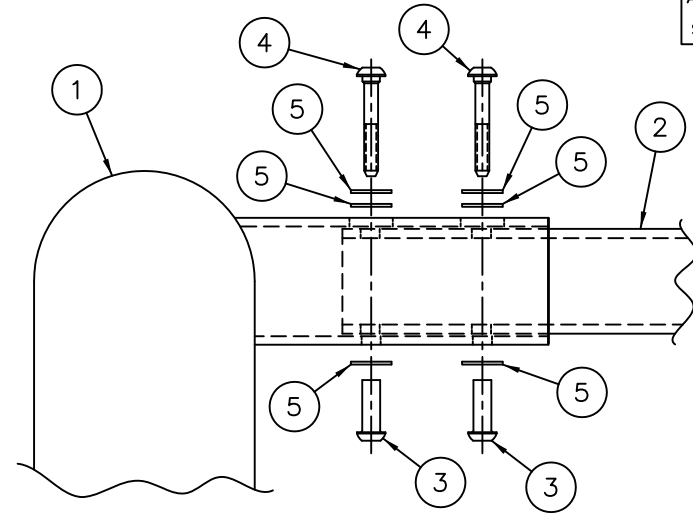
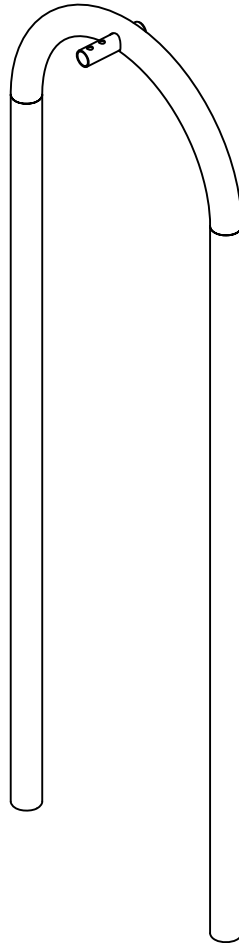
Sheet 2 of 9

AUTHORIZED BY: 10JAN18
STEVE ADKINS

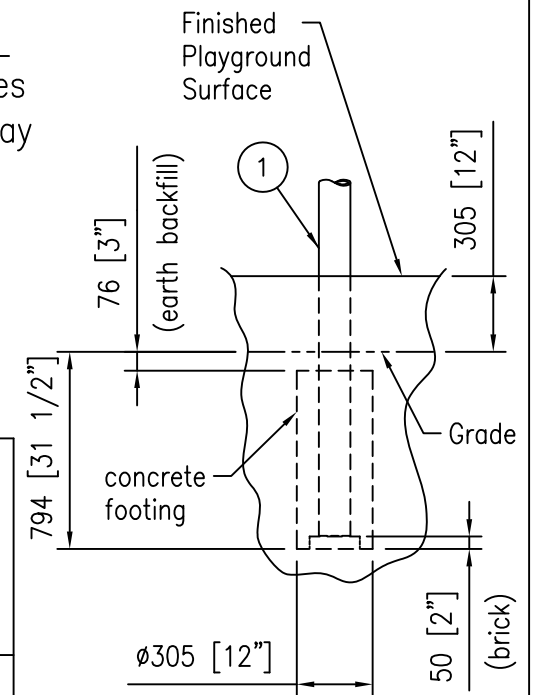
1A



1B

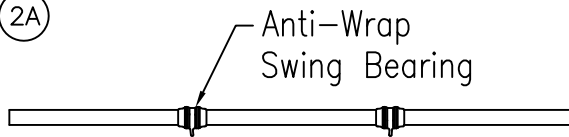


DETAIL 1
Typ 2 Places
per swing bay

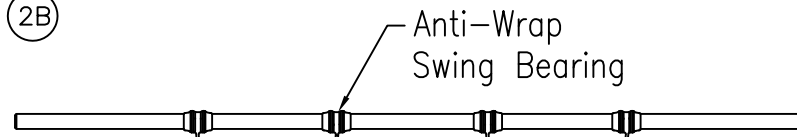


Footing Detail

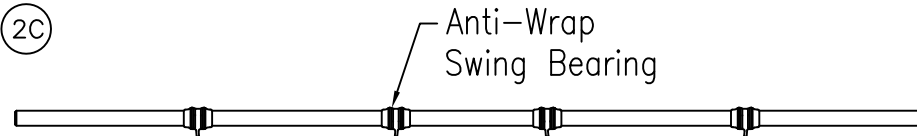
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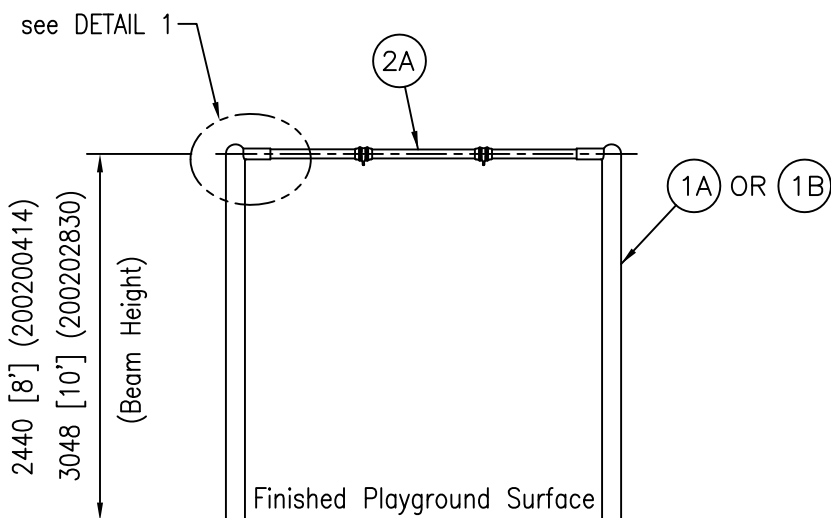
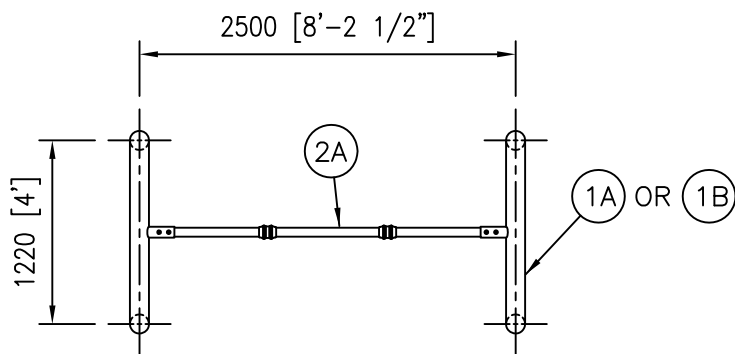
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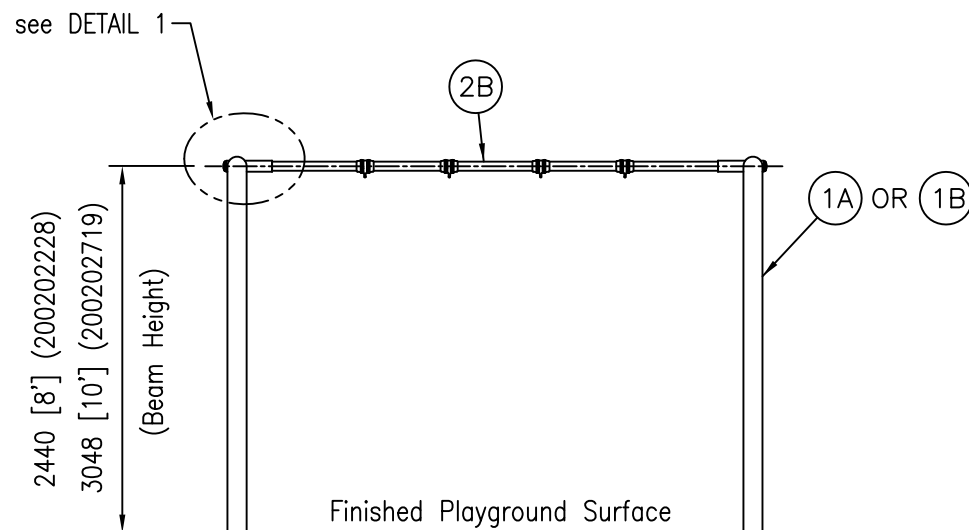
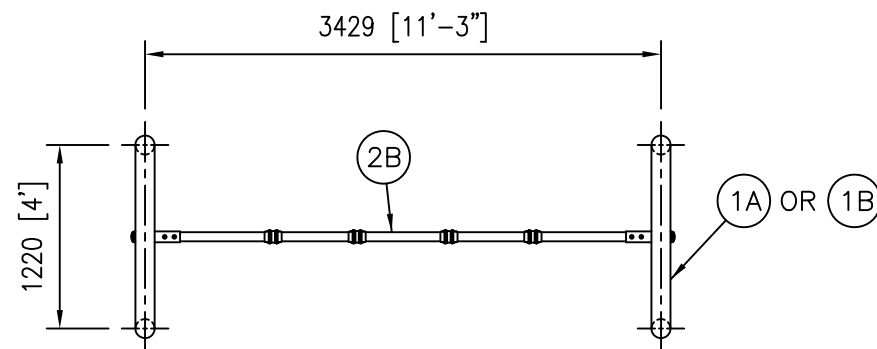
2C



TOP AND FRONT VIEWS

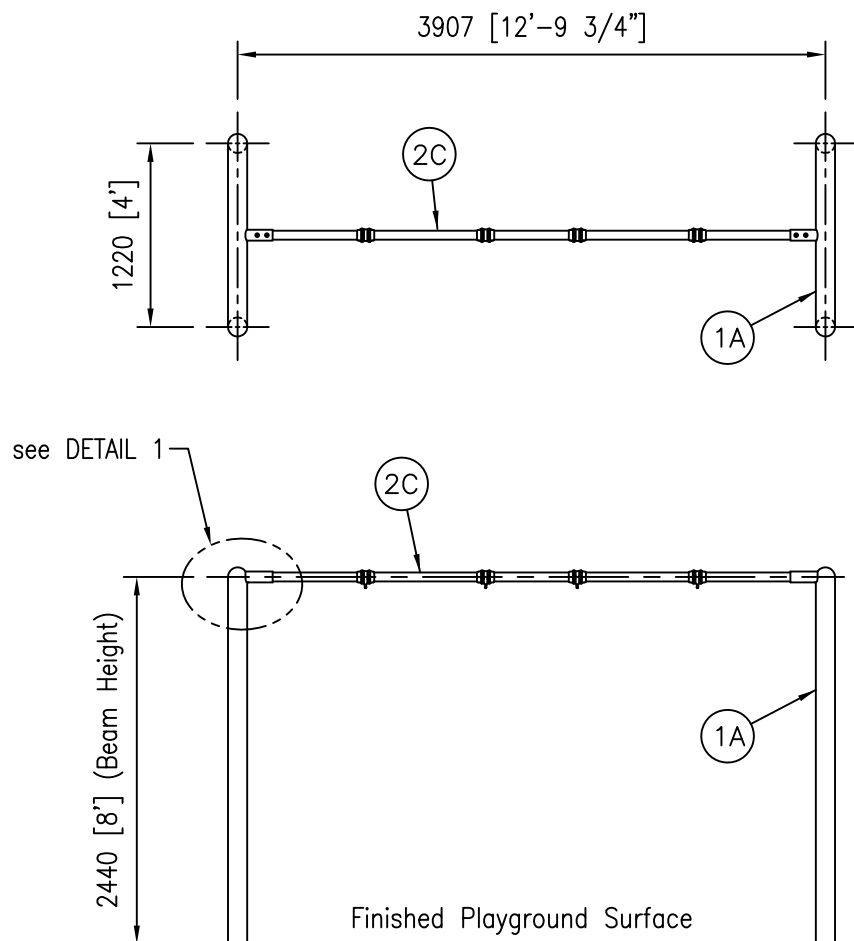


8' (200200414)
10' (200202830)
ARCH POSTS with SHORT BEAM
(1 seat)



8' (200202228)
10' (200202719)
ARCH POSTS with STANDARD BEAM
(2 seats)

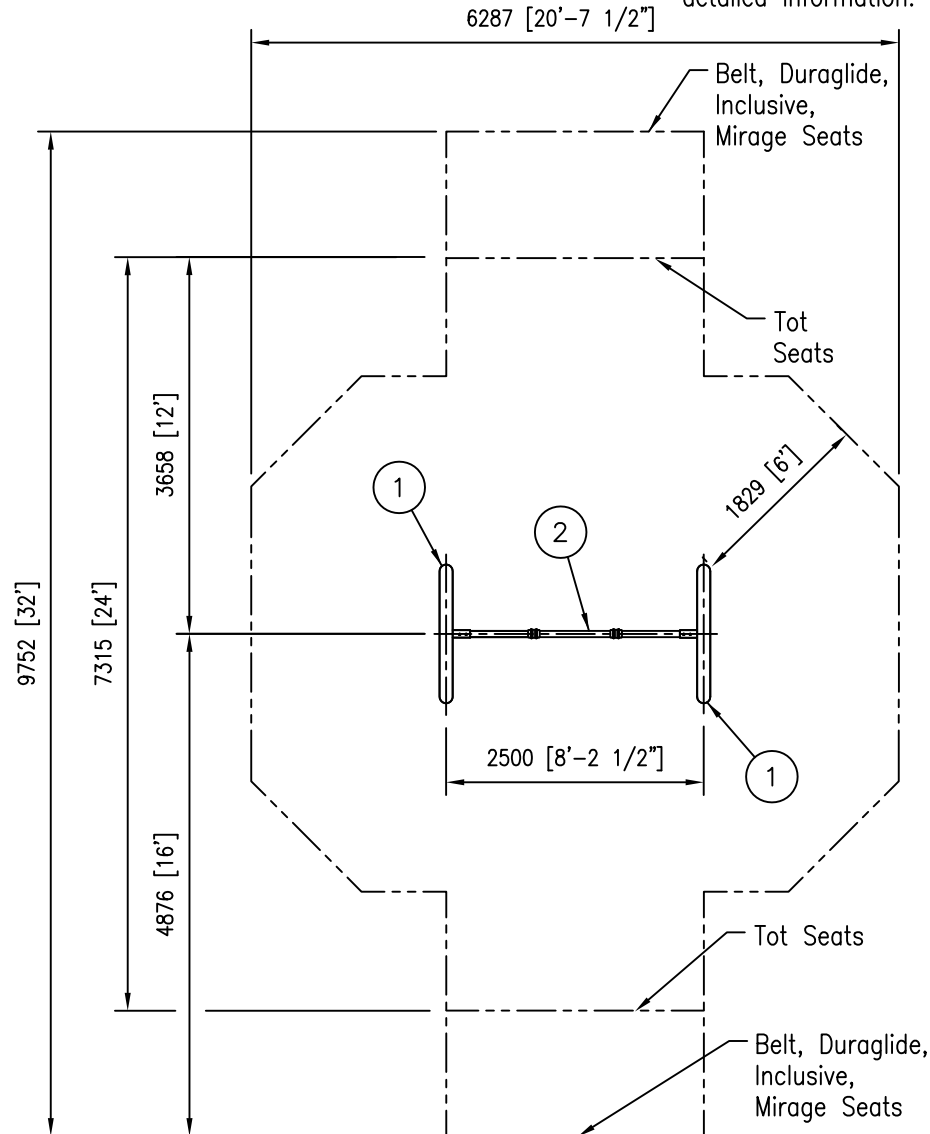
TOP AND FRONT VIEWS



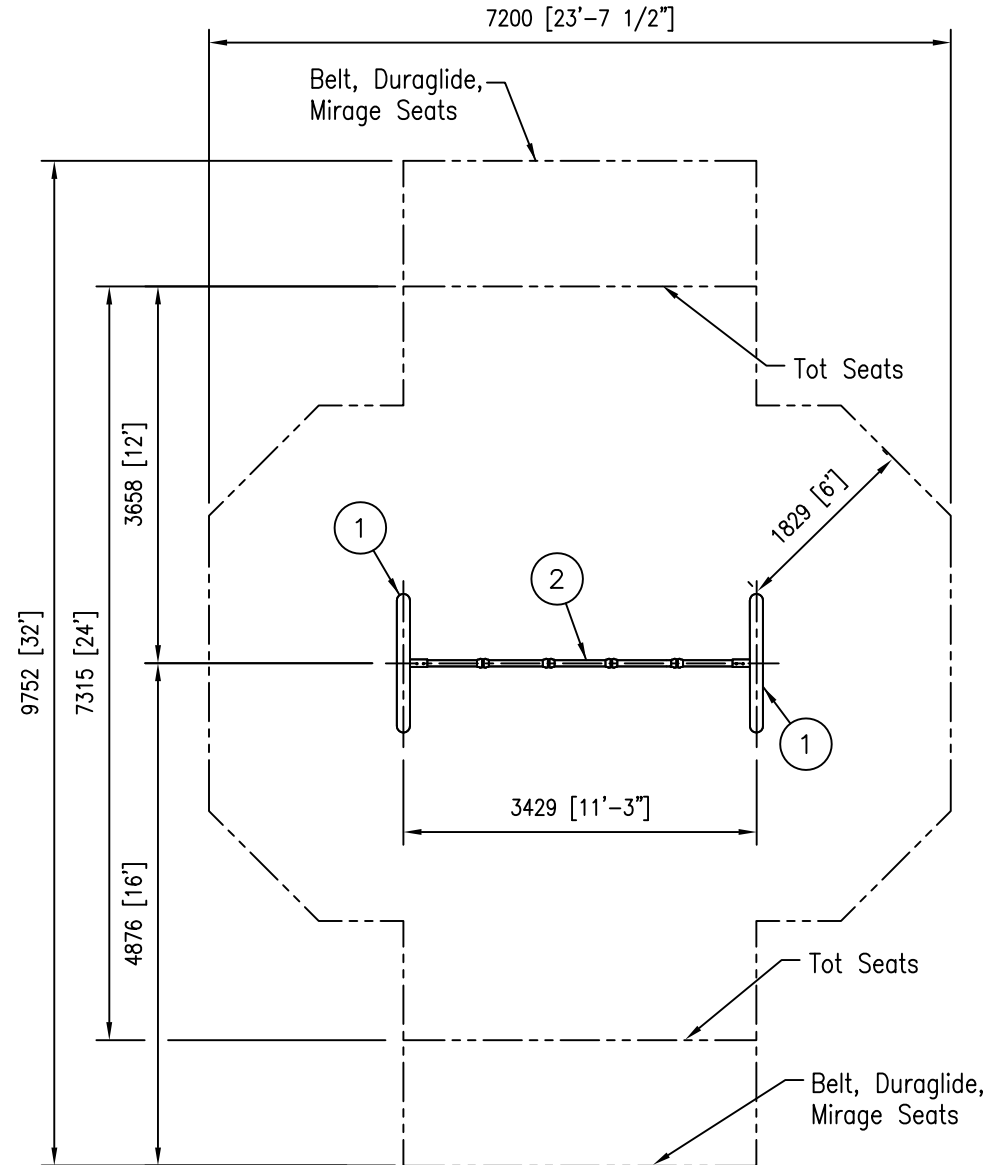
200200318
8' ARCH POSTS
with LONG BEAM
(2 seats)

8' USE ZONES

Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.



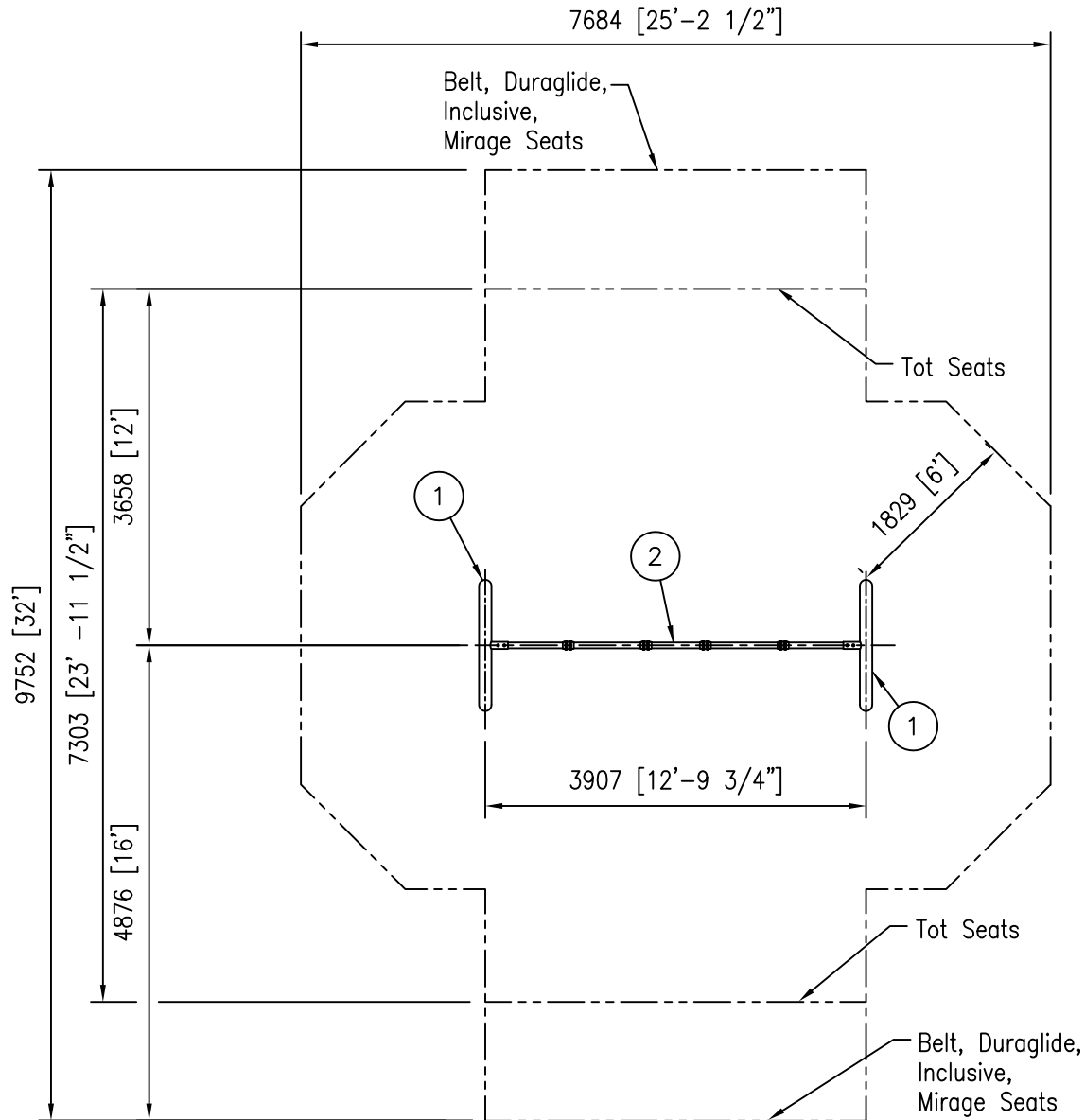
8' SHORT BEAM



8' STANDARD BEAM

8' USE ZONES

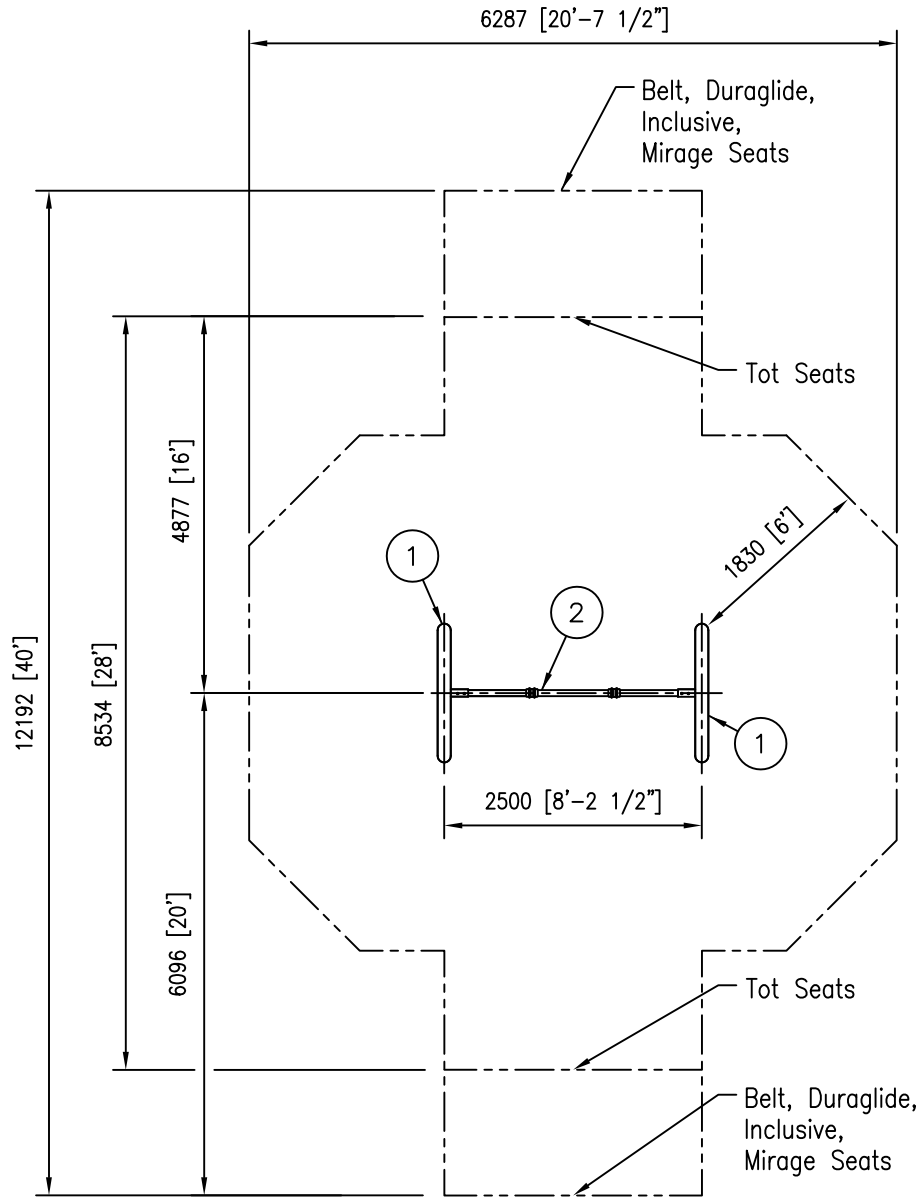
Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.



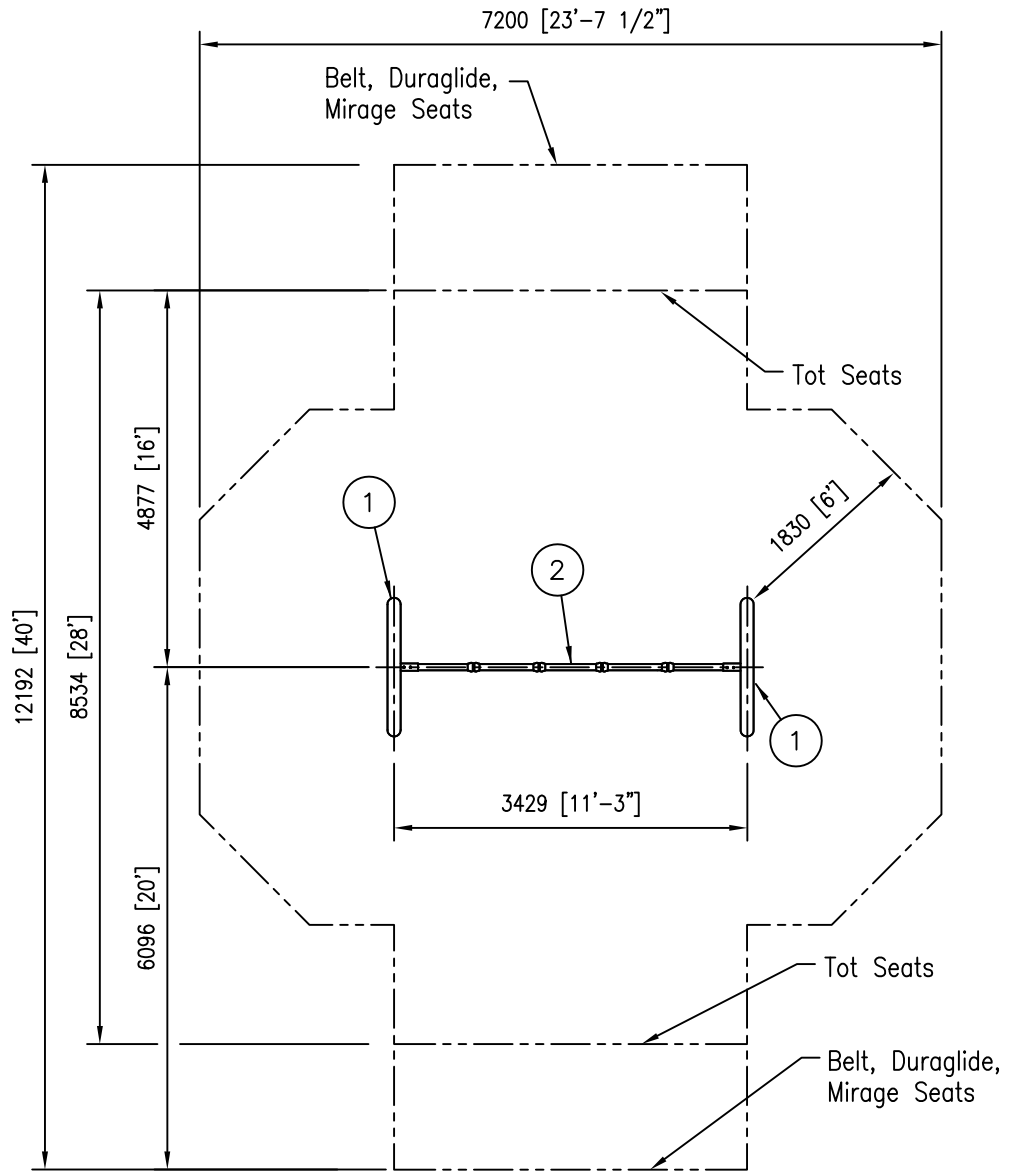
8' LONG BEAM

10' USE ZONES

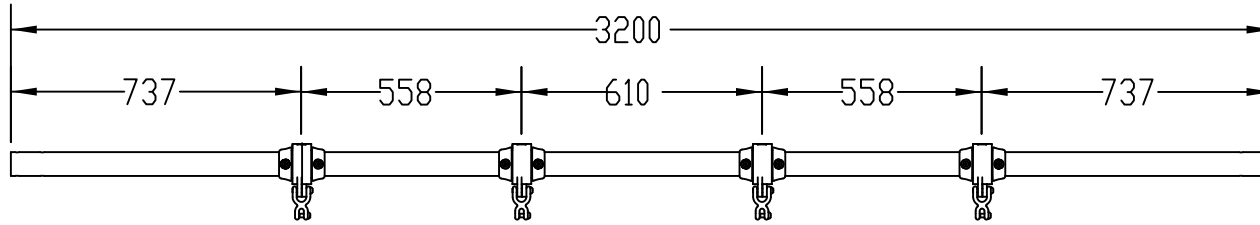
Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.



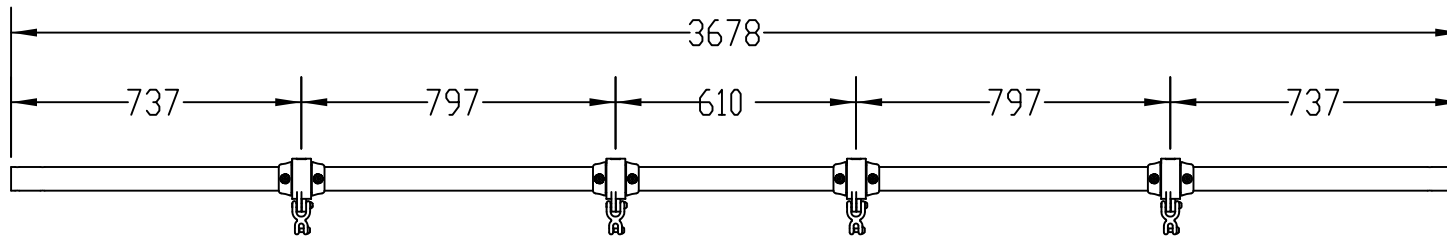
10' SHORT BEAM



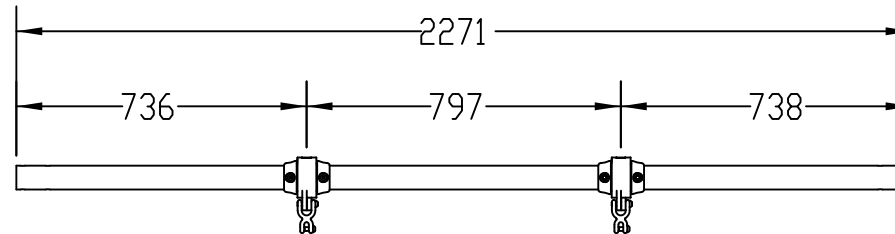
10' STANDARD BEAM



ANTI-WRAP HANGER SPACING - (2) SEAT

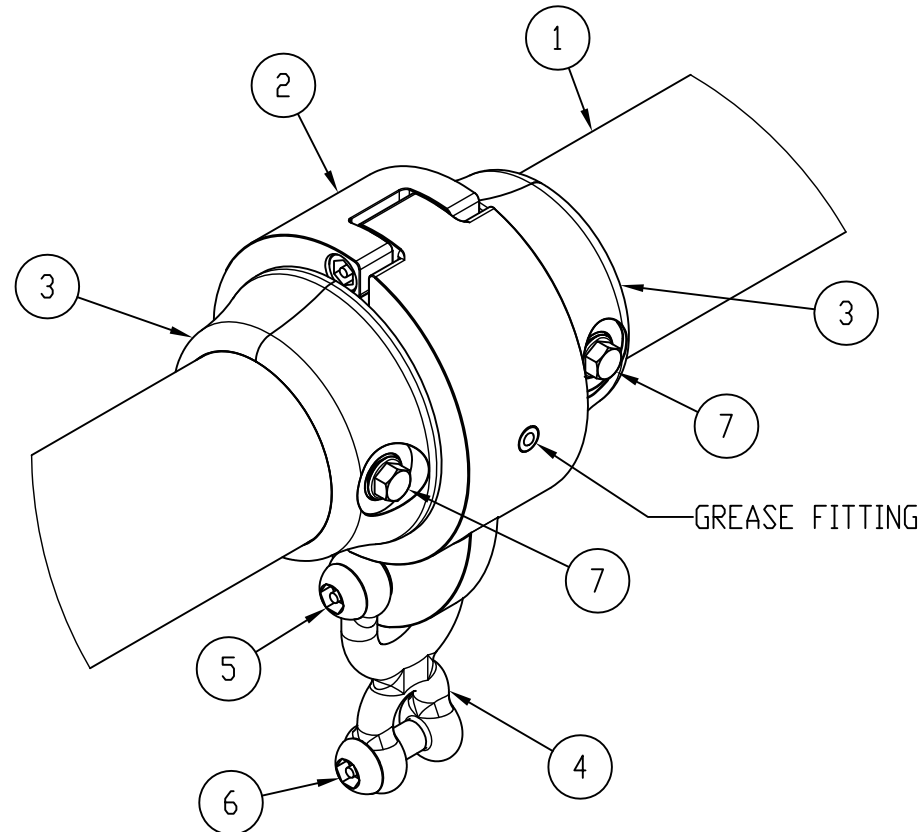


ANTI-WRAP HANGER SPACING - (2) INCLUSIVE SEAT



ANTI-WRAP HANGER SPACING - (1) INCLUSIVE SEAT

<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KID BUILDERS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KID BUILDERS IS PROHIBITED.</p>	TITLE: ANTI-WRAP SWING HANGER LAYOUT		
	DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE		
	TOLERANCES UNLESS OTHERWISE STATED		
	<p>LINEAR: >0MM => 100MM ±1MM</p> <p>>100MM => 1500MM ±2MM</p> <p>>1500MM => 3000MM ±3MM</p> <p>>3000MM ±6MM</p> <p>ANGULAR ± 1°</p>		
WEIGHT: LB	AS INDEXED		
DRAWN BY/DATE		CHECKED/DATE	APPROVAL/DATE
SBA 09JAN18		TRA 09JAN18	CDW 09JAN18
SHEET 1 OF 2		ORG No.	ANTI-WRAP
		REV	A



- REMOVE THE CLEVIS - ITEM 4 BY REMOVING THE BOLT - ITEM 5. SET THE BOLT ASIDE.
- OPEN THE HANGER ASSY. UP - ITEM 2 AND REMOVE THE BUSHING HALVES - ITEM 3. CENTER ONE OF THE BUSHING HALVES ON TO THE BEAM - ITEM 1 USING THE HANGER LAYOUT FOR LOCATION. ATTACH USING 2 OF THE 1/4-14 X 1-1/4" BOLTS - ITEM 7.
- REPEAT WITH THE OTHER BUSHING HALF. NOTE THAT THE BUSHING HALVES WILL NOT COMPLETELY MATE ON THE SWING BEAM. ALIGN THE TABS WITH HE NOTCHES, AND ENSURE THE GAP BETWEEN THE BUSHING HALVES IS EQUAL ON BOTH SIDES OF THE SWING BEAM.
- PLACE THE HANGER ASSY. - ITEM 2 AROUND THE BUSHING HALVES - ITEM 3.
- APPLY VIBRA-TITE THREADLOCKER TO THE END OF THE BOLT THAT WAS SET ASIDE - ITEM 5. ATTACH THE CLEVIS - ITEM 4 BACK TO THE HANGER ASSY. USING THIS BOLT. TIGHTEN ALL HARDWARE.
- USING A GREASE GUN, PLACE A SUFFICIENT AMOUNT OF ALL-PURPOSE GREASE INTO THE GREASE FITTING TO ALLOW THE HANGE TO SWING FREELY.

7	4	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER
6	1	-	3/8-16 X 1-1/4" BHCS HEX SOCKET W/PIN - GALV
5	1	-	3/8-16 X 1-13/16" BHCS HEX SOCKET W/PIN - GALV
4	1	-	CLEVIS
3	2	-	BUSHING HALF
2	1	-	ANTI-WRAP HANGER ASSY
1	1	-	BEAM F/SWING
ITEM	QTY	PART NO.	Description

<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.</p>		<p>TITLE: ANTI-WRAP SWING HANGER LAYOUT</p>	
		<p>AS INDEXED</p>	
<p>WEIGHT: LB</p>		<p>DRAWN BY/DATE: SBA 09JAN18</p>	<p>CHECKED/DATE: TRA 09JAN18</p>
<p>APPROVAL/DATE: CDW 09JAN18</p>		<p>2 OF 2</p>	<p>ANTI-WRAP</p>



ARCH 8' AND 10' ADD-ON -- SHORT, STANDARD, & LONG BEAM

200199548

1800035C

SHEET 1 OF 8

Installation Instructions

1. Find and mark the appropriate locations for the footings. Make sure you have adequate area for fall zone as specified.
2. Dig footings to appropriate depth and diameter.
3. Place a brick in each footing hole, adjusting for proper level height of beam as specified.
4. Set arch post (item 1A) and add-on bay (item 1B) in footings and attach beam to posts as shown in Detail 1. (One multi-bay post (item 1B) and one additional beam (item 2) will be required for each additional bay)
5. Make sure beam is level and at the proper height.
6. Pour concrete. Allow at least 48 hours to cure.
7. Put 76mm (3") earth backfill in place.
8. Install resilient ground surfacing.
9. Tighten all hardware.

Note: For additional swing bays repeat steps 1–5, insuring all arch posts are plumb, and all beams are level and at the proper height.

Specifications

Beam shall be fabricated from 60mm (2.375") O.D. 5 gauge pre-galvanized steel tube. It shall be painted per PPLT PAINT Specification.

Legs and Arch are to be of one piece construction fabricated from 127mm (5") 11 gauge pre-galvanized steel tube. It shall be painted per PPLT PAINT Specification.

Anti-Wrap-over swing bearings (U.S. Patent 6,123,480) shall be fabricated from 415D sand cast Aluminum Bronze with injection molded nylatron plastic sleeve.

AUTHORIZED BY: 10JAN18
STEVE ADKINS

ARCH 8' ADD-ON SHORT BEAM 200200415

ARCH 8' ADD-ON STANDARD BEAM 200202230

ARCH 8' ADD-ON LONG BEAM 200200319

ARCH 10' ADD-ON SHORT BEAM 200202829

ARCH 10' ADD-ON STANDARD BEAM 200202718

Item	Code	Required F/Each Additional Bay	Qty.
1A	–	POST ADD-ON F/KB 8' ARCH SWG	1
1B	–	POST ADD-ON F/KB 10' ARCH SWG	1
1C	–	POST F/KB 8' ARCH SWG	1
1D	–	POST F/KB 10' ARCH SWG	1
2A	–	BEAM 3200mm TP HEAVY SWING	1
2B	–	SHORT BEAM W/HOLES F/INCL. SWING	1
2C	–	LONG BEAM W/HOLES F/INCL. SWING	1

HDWR BAG F/KB ARCH SWING BEAM 200199519

Item	Code	Required F/Each Additional Bay	Qty.
3	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4
4	200002142	BOLT M8 X 1.25 MALE 57.5MM	4
5	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	2

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



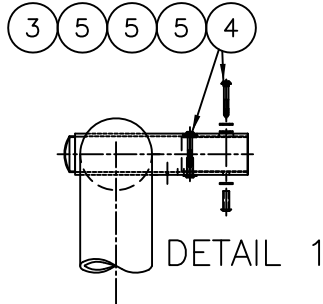
ARCH 8' AND 10' ADD-ON -- SHORT, STANDARD, & LONG BEAM

200199548

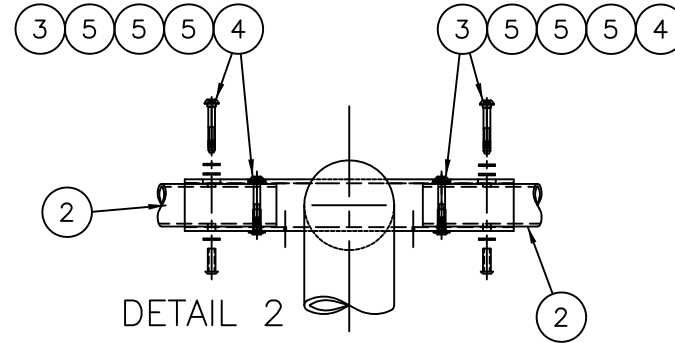
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Sheet 2 of 8

AUTHORIZED BY: 10JAN18
STEVE ADKINS



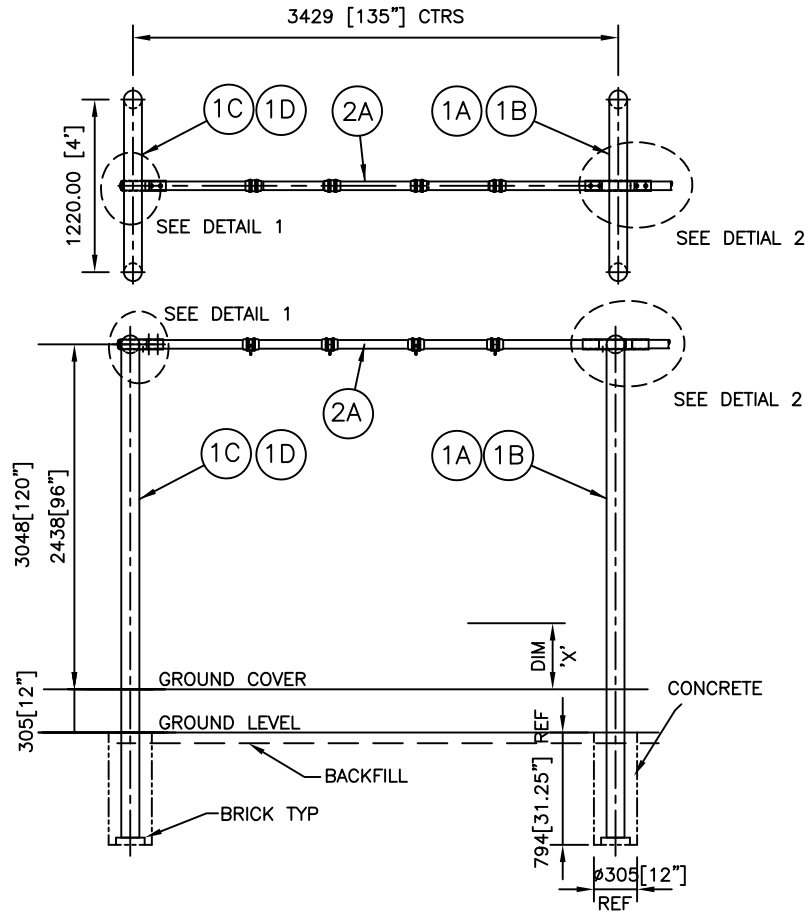
DETAIL 1



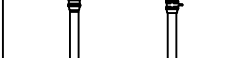
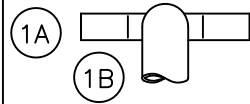
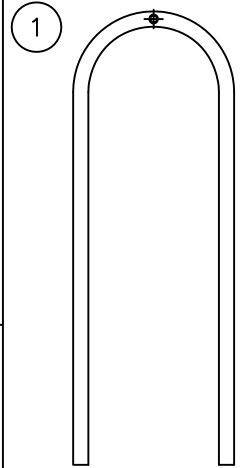
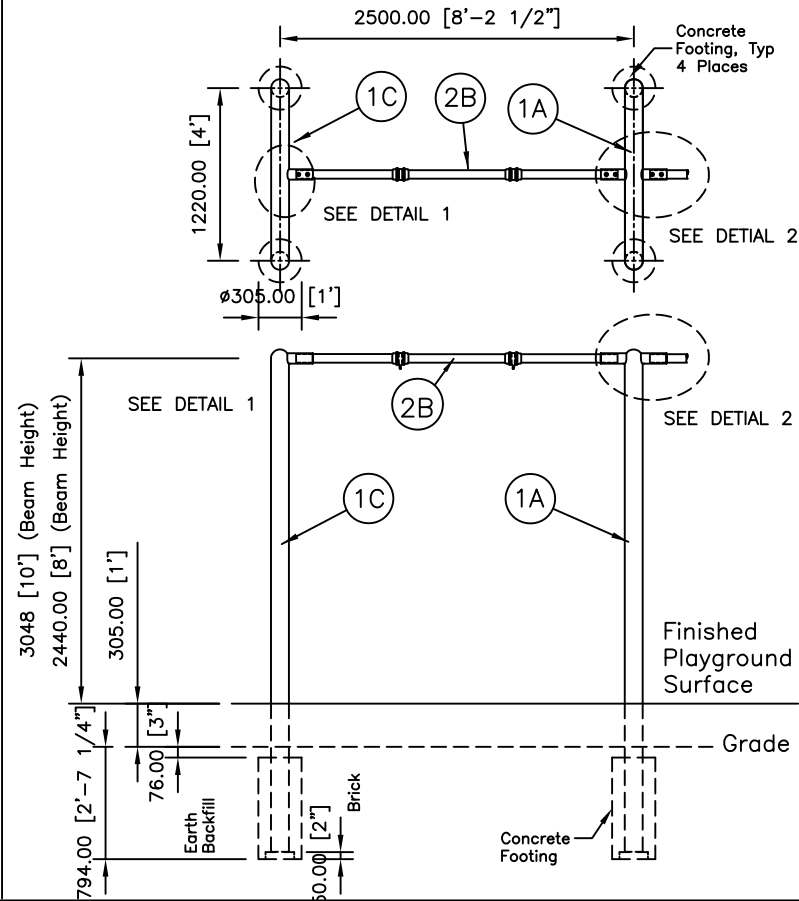
DETAIL 2

NOTE: FOR AGE LABEL PLACEMENT REFER TO INSTRUCTION #SW00001

STANDARD BAY 2 SEAT BEAM



SHORT BAY 1 SEAT BEAM





ARCH 8' AND 10' ADD-ON -- SHORT, STANDARD, & LONG BEAM

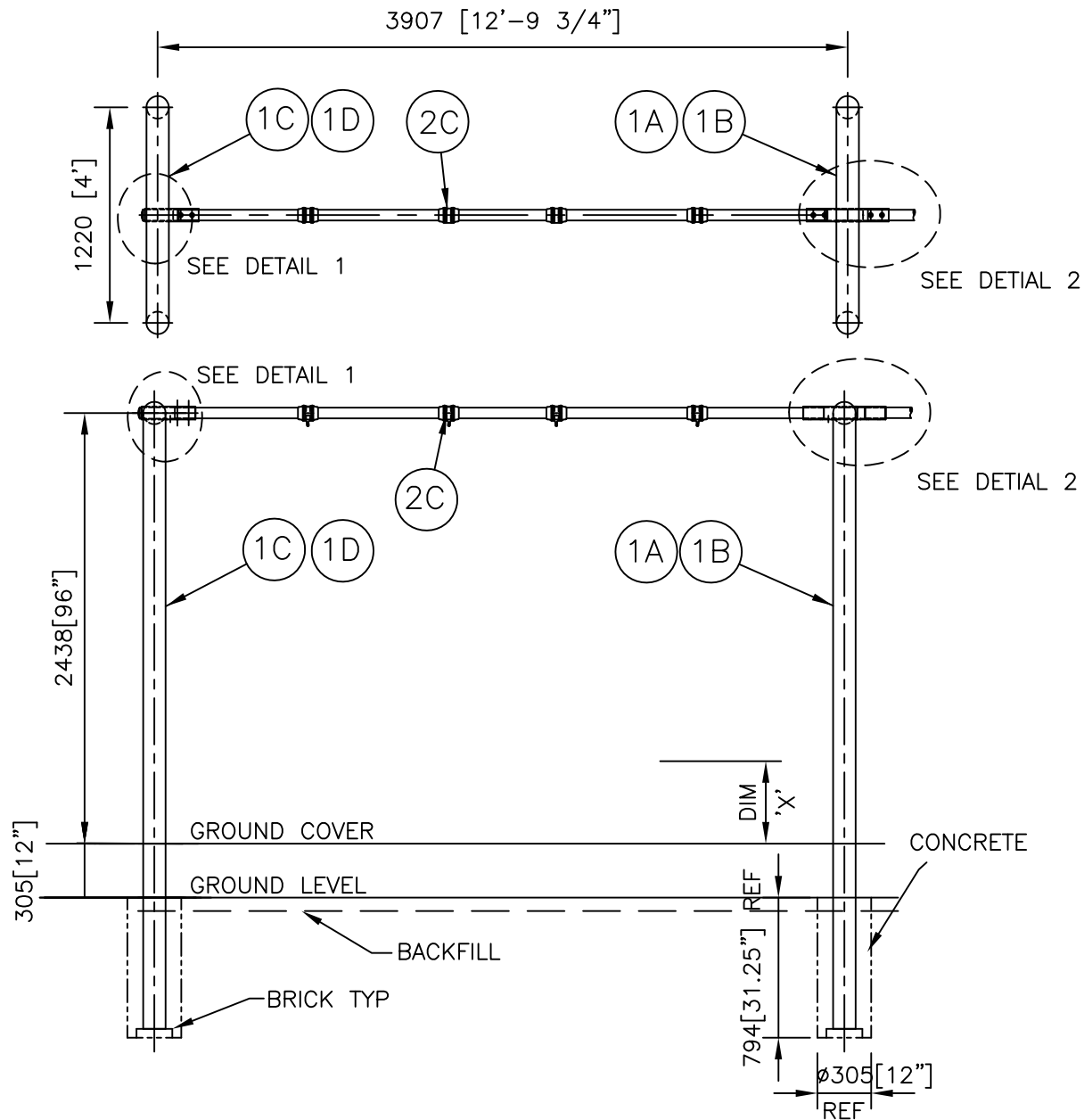
200199548

1800035C

Sheet 3 of 8

AUTHORIZED BY: 10JAN18
STEVE ADKINS

LONG BAY 2 SEAT BEAM





ARCH 8' AND 10' ADD-ON -- SHORT, STANDARD, & LONG BEAM

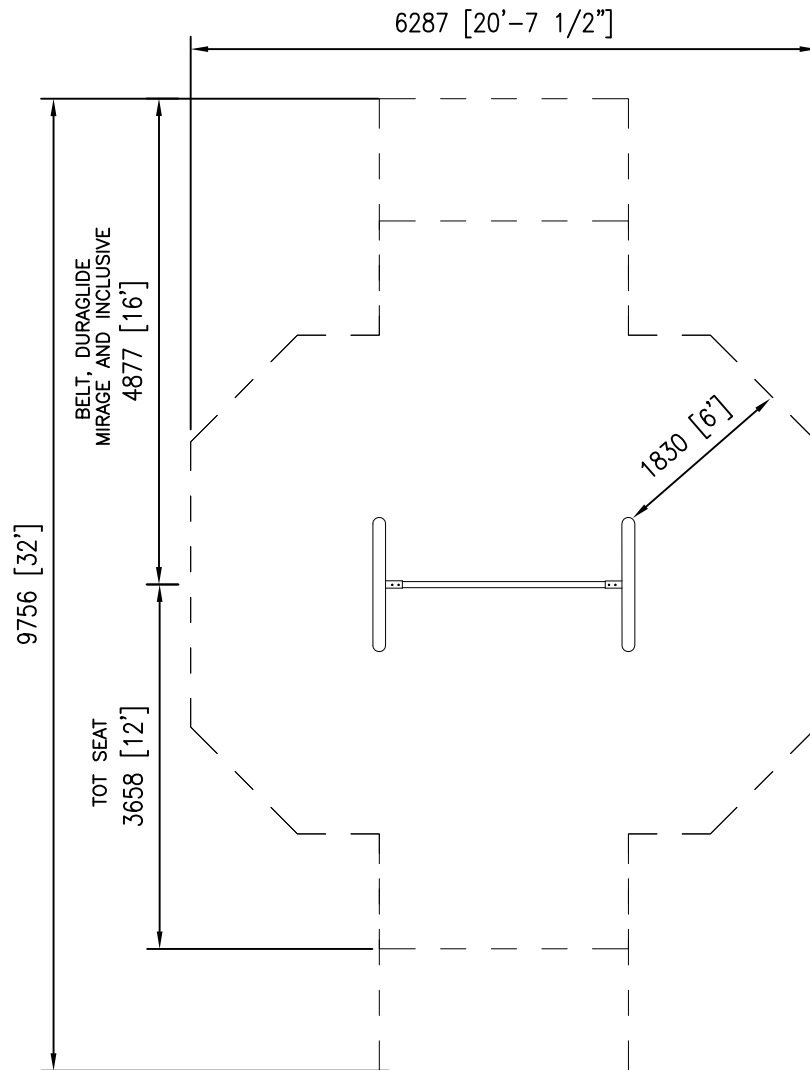
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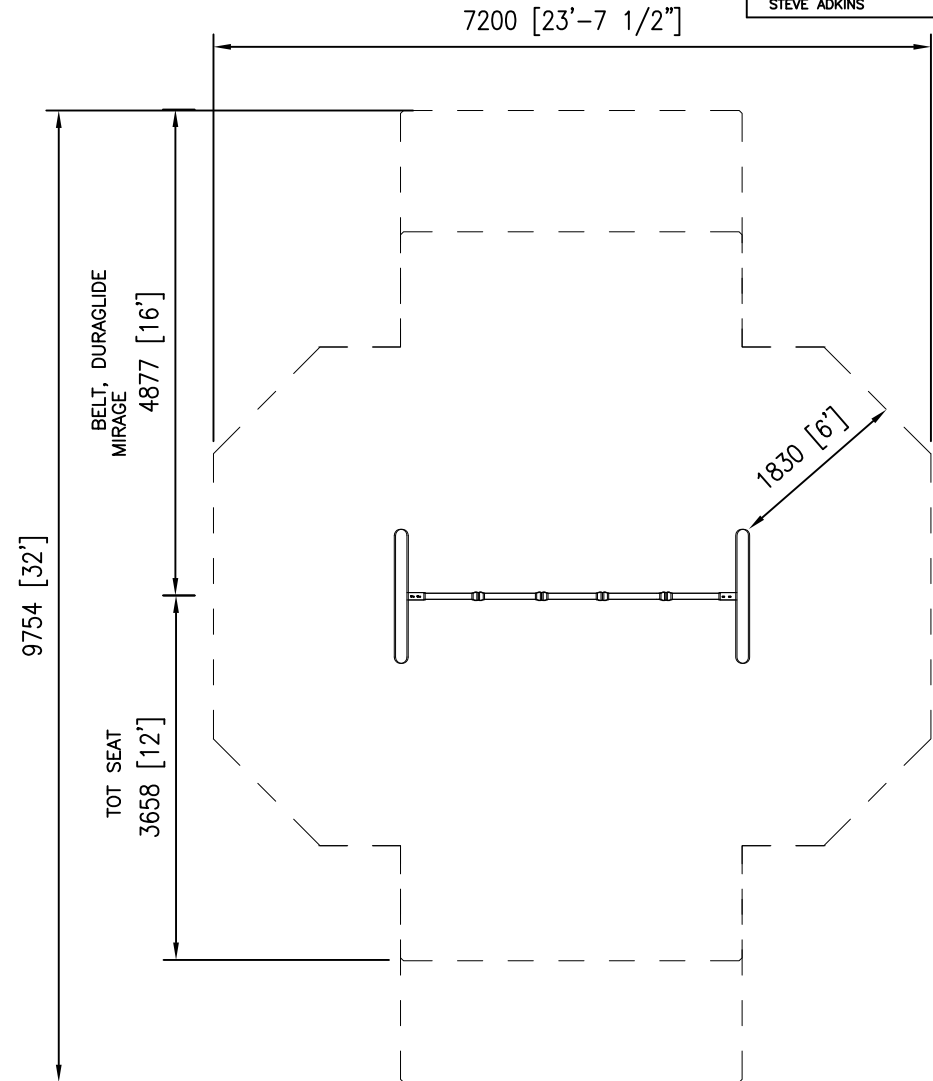
Sheet 4 of 8

8' USE ZONE

AUTHORIZED BY: 10JAN18
STEVE ADKINS



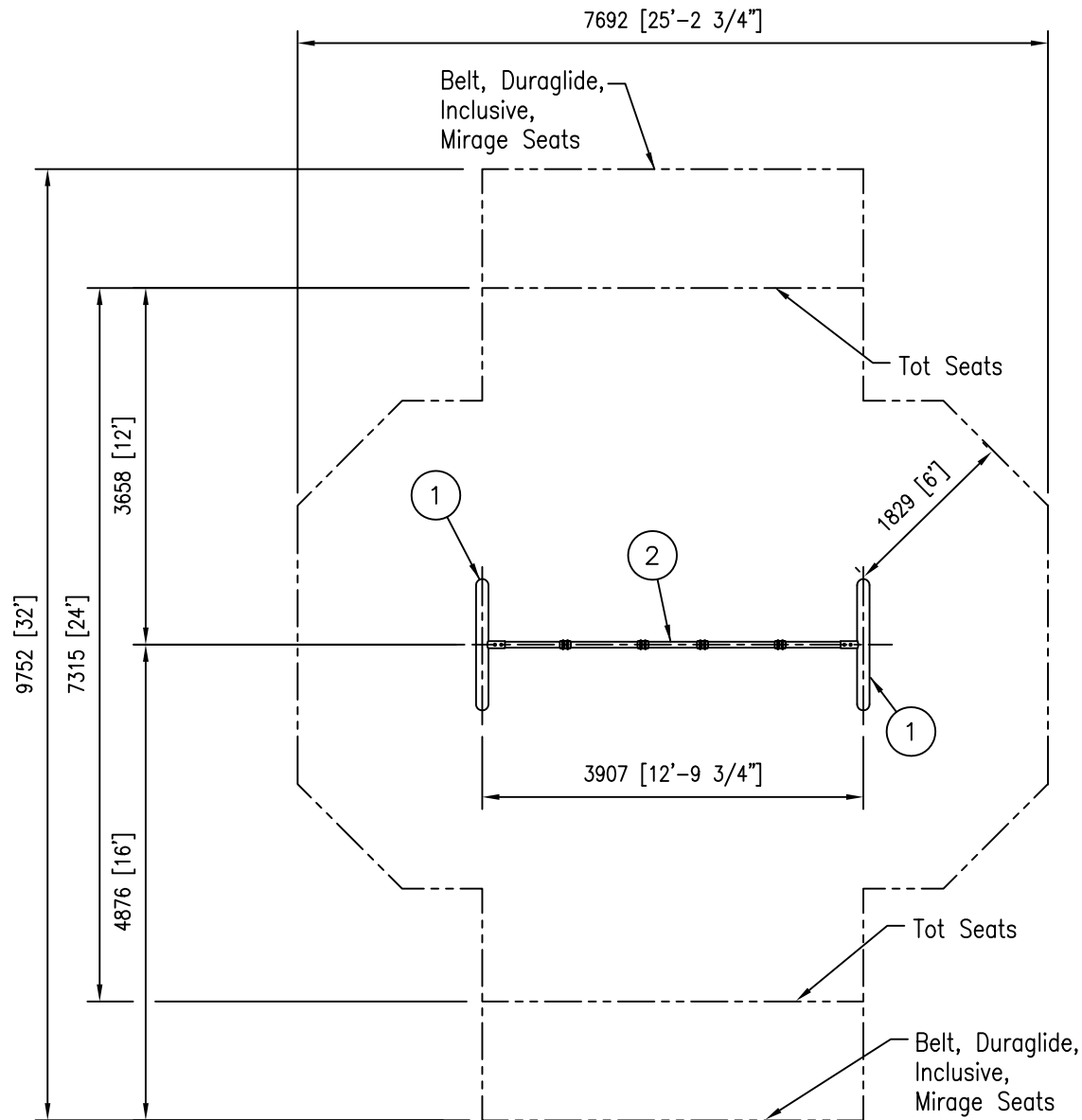
8' SHORT BEAM USE ZONE



8' STANDARD BEAM USE ZONE

Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.

8' USE ZONES



8' LONG BEAM USE ZONE

Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.



ARCH 8' AND 10' ADD-ON -- SHORT, STANDARD, & LONG BEAM

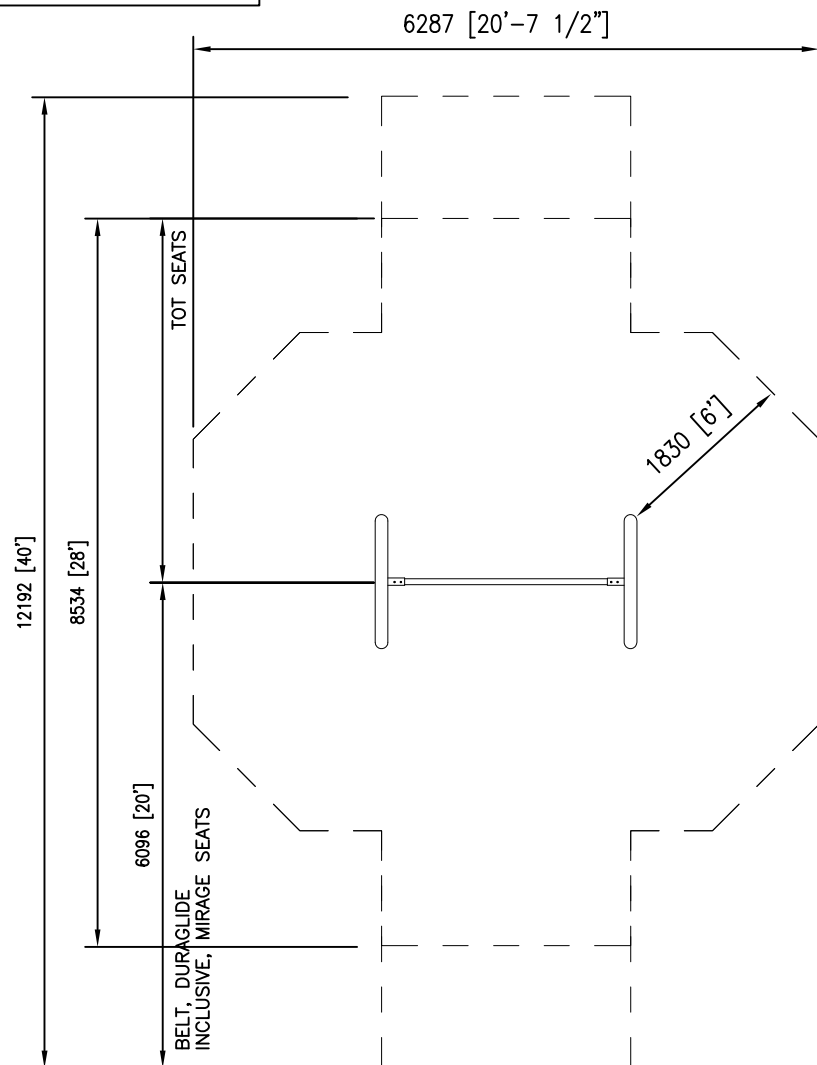
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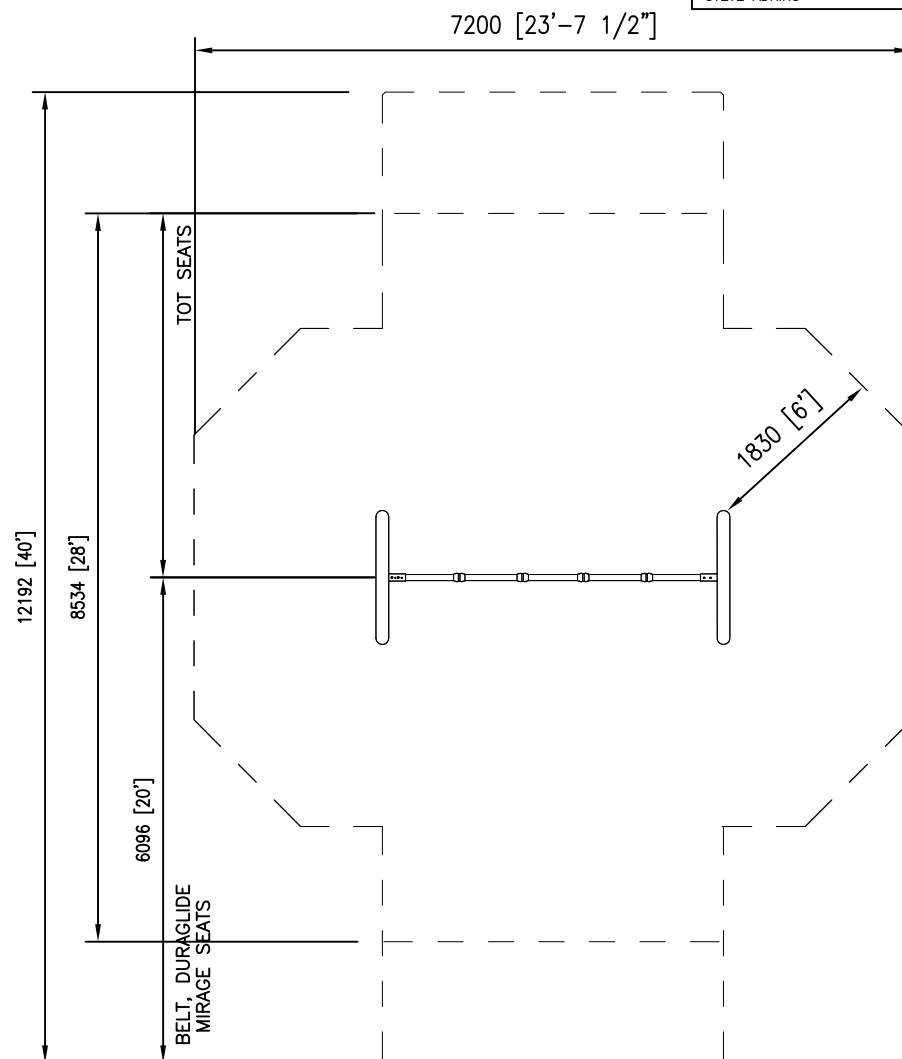
Sheet 6 of 8

10' USE ZONE

AUTHORIZED BY: 10JAN18
STEVE ADKINS

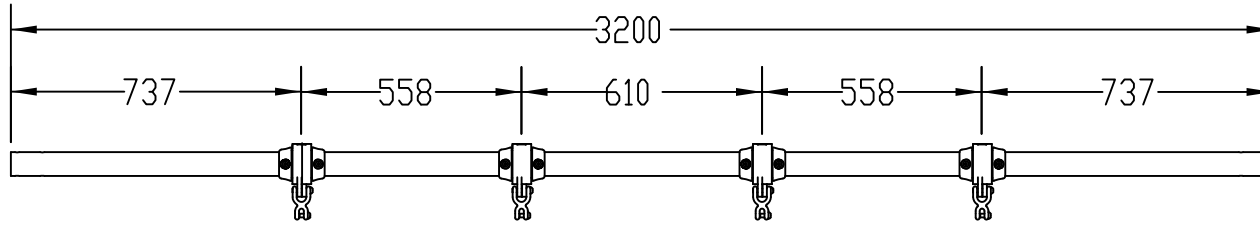


10' SHORT BEAM USE ZONE

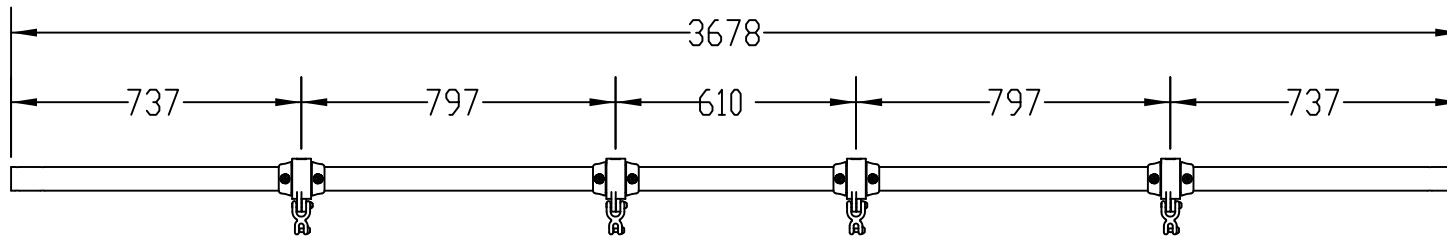


10' STANDARD BEAM USE ZONE

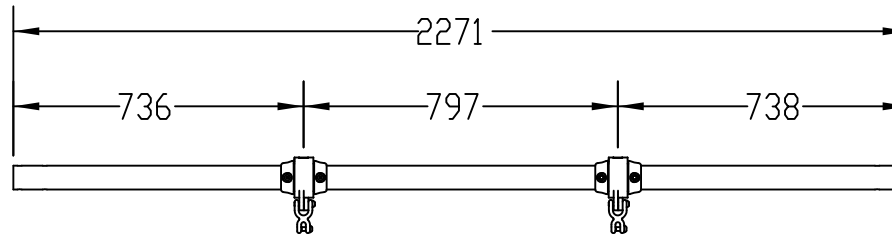
Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.



ANTI-WRAP HANGER SPACING - (2) SEAT

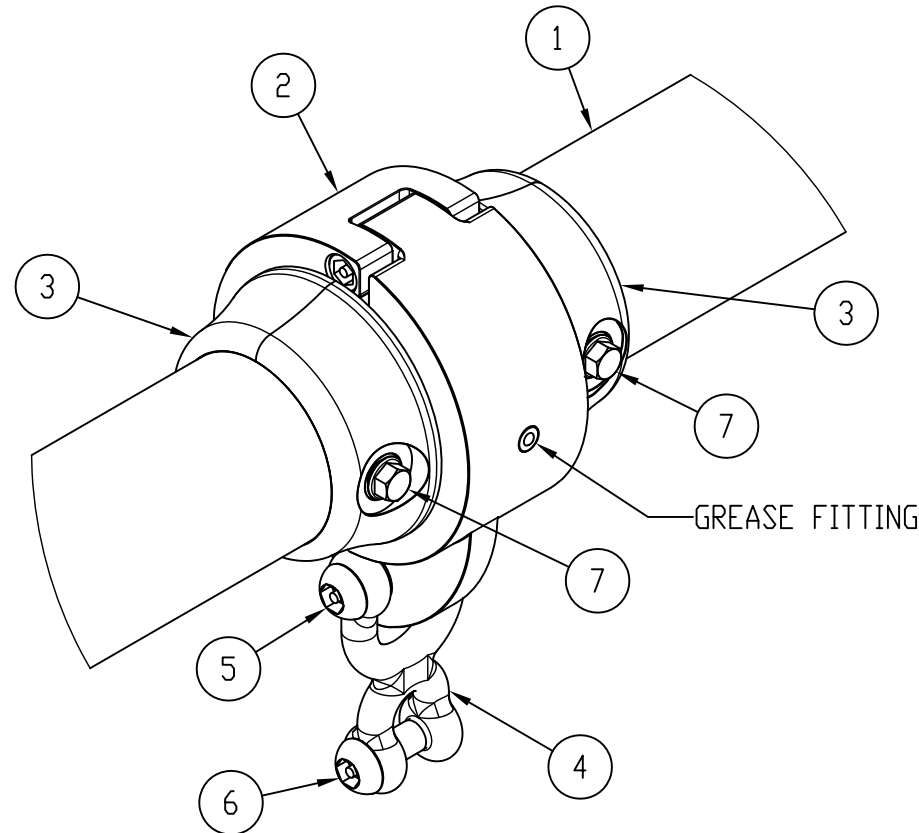


ANTI-WRAP HANGER SPACING - (2) INCLUSIVE SEAT



ANTI-WRAP HANGER SPACING - (1) INCLUSIVE SEAT

<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.</p>	TITLE: ANTI-WRAP SWING HANGER LAYOUT		
	DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE		
	TOLERANCES UNLESS OTHERWISE STATED		
	<p>LINEAR: >0MM => 100MM ±1MM</p> <p>>100MM => 1500MM ±2MM</p> <p>>1500MM => 3000MM ±3MM</p> <p>>3000MM ±6MM</p> <p>ANGULAR ± 1°</p>		
WEIGHT: LB	AS INDEXED		
DRAWN BY/DATE		CHECKED/DATE	APPROVAL/DATE
SBA 09JAN18		TRA 09JAN18	CDW 09JAN18
SHEET 1 OF 2		ORG No.	ANTI-WRAP
		REV	A



- REMOVE THE CLEVIS - ITEM 4 BY REMOVING THE BOLT - ITEM 5. SET THE BOLT ASIDE.
- OPEN THE HANGER ASSY. UP - ITEM 2 AND REMOVE THE BUSHING HALVES - ITEM 3. CENTER ONE OF THE BUSHING HALVES ON TO THE BEAM - ITEM 1 USING THE HANGER LAYOUT FOR LOCATION. ATTACH USING 2 OF THE 1/4-14 X 1-1/4" BOLTS - ITEM 7.
- REPEAT WITH THE OTHER BUSHING HALF. NOTE THAT THE BUSHING HALVES WILL NOT COMPLETELY MATE ON THE SWING BEAM. ALIGN THE TABS WITH HE NOTCHES, AND ENSURE THE GAP BETWEEN THE BUSHING HALVES IS EQUAL ON BOTH SIDES OF THE SWING BEAM.
- PLACE THE HANGER ASSY. - ITEM 2 AROUND THE BUSHING HALVES - ITEM 3.
- APPLY VIBRA-TITE THREADLOCKER TO THE END OF THE BOLT THAT WAS SET ASIDE - ITEM 5. ATTACH THE CLEVIS - ITEM 4 BACK TO THE HANGER ASSY. USING THIS BOLT. TIGHTEN ALL HARDWARE.
- USING A GREASE GUN, PLACE A SUFFICIENT AMOUNT OF ALL-PURPOSE GREASE INTO THE GREASE FITTING TO ALLOW THE HANGE TO SWING FREELY.

7	4	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER
6	1	-	3/8-16 X 1-1/4" BHCS HEX SOCKET W/PIN - GALV
5	1	-	3/8-16 X 1-13/16" BHCS HEX SOCKET W/PIN - GALV
4	1	-	CLEVIS
3	2	-	BUSHING HALF
2	1	-	ANTI-WRAP HANGER ASSY
1	1	-	BEAM F/SWING
ITEM	QTY	PART NO.	Description

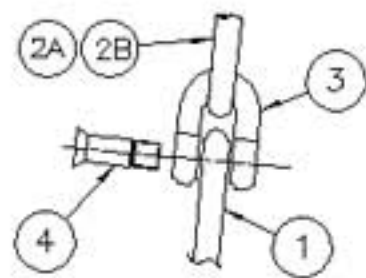
<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.</p>		TITLE: ANTI-WRAP SWING HANGER LAYOUT	
		DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE	
WEIGHT: LB		AS INDEXED	
DRAWN BY/DATE		CHECKED/DATE	APPROVAL/DATE
SBA 09JAN18		TRA 09JAN18	CDW 09JAN18
SHEET: 2 OF 2		URG No.	ANTI-WRAP
		REV	A

TOT SWING SEAT

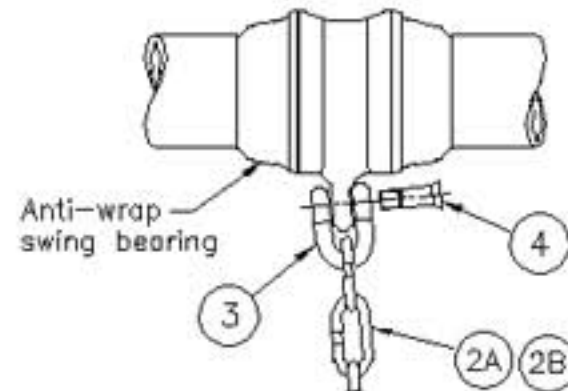
200302389

1800038B

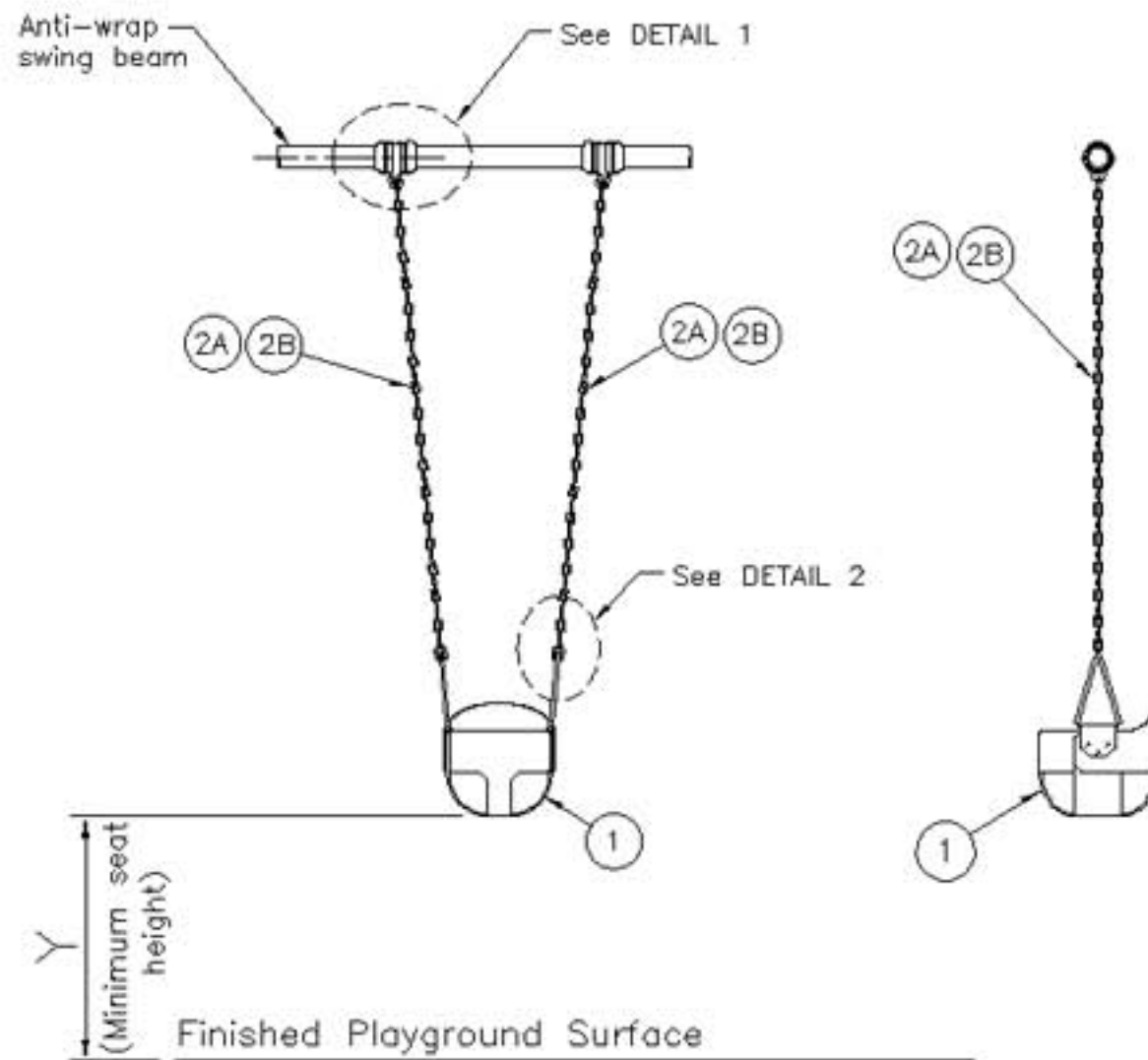
Sheet 1 of 1



DETAIL 2
Typ 2 Places



DETAIL 1
Typ 2 Places



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 24 INCHES

TOT SWING SEAT (8FT) 200202836
TOT SWING SEAT (10FT) 200202834

Item	Code	Description	Qty.
1	-	TOT SEAT	1
2A	200187283	CHAIN 8FT	1
2B	200187284	CHAIN 10FT	1
3	200035993	SHACKLE "D" STYLE 41 MM 300 S.S.(SMALL)	4
4	200035994	BOLT M10 X 1.5 X 27 MM 300 SS 6-LOBE(SM)	4

Application

- For age groups 2-12 years.

Maintenance

- Check all hardware
- Touch up any marred paint surface
- Refer to maintenance kit.
- Check chain and seat for wear

Specifications

CHAINS

MATERIAL: 4/0 chain link hot dipped galvanized

TOT SEAT

MATERIAL: Tot Swing Seats shall be heavy duty construction, fabricated from black rubber with a tempered steel insert molded inside, rendering them slashproof. Tot seat shall be fully enclosed to prevent slipping out and provide lower back support. Two sizes of leg cutouts make this seat versatile enough to accommodate larger children with special needs also.

Installation Instructions

1. Attach chains to beam as shown in DETAIL 1.
2. Determine seat height and trim chains accordingly.
3. Attach swing seat to chains as shown in DETAIL 2.

NOTES:

1. See separate instruction for swing frame installation.

AUTHORIZED BY: 14APR14

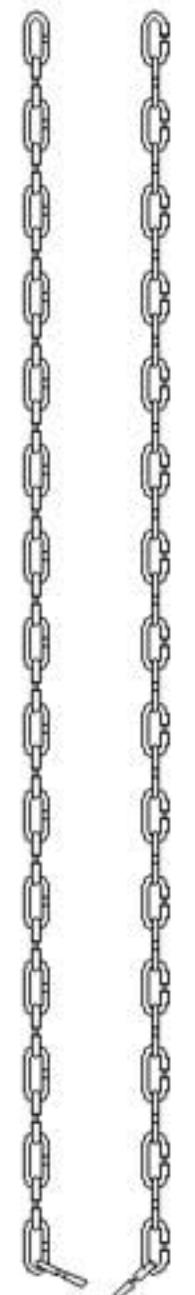
Signature

1



2A

2B



BELT SWING SEAT

200302390

1800039B

Sheet 1 of 1

AUTHORIZED BY: 14APR14

Handwritten signature

BELT SWING SEAT (8FT) 200202835
BELT SWING SEAT (10FT) 200202832

Item	Code	Description	Qty.
1	-	BELT SEAT PART	1
2A	200187286	CHAIN (8ft)	1
2B	200187287	CHAIN (10ft)	1
3	200035993	SHACKLE "D" STYLE 41 MM 300 S.S.(SMALL)	4
4	200035994	BOLT M10 X 1.5 X 27 MM 300 SS 6-LOBE(SM)	4

Application

- For age groups 2-12 years.

Maintenance

- Check all hardware
- Touch up any marred paint surface
- Refer to maintenance kit.
- Check chain and seat for wear

Specifications

CHAINS

MATERIAL: 4/0 chain link hot dipped galvanized

BELT SEAT

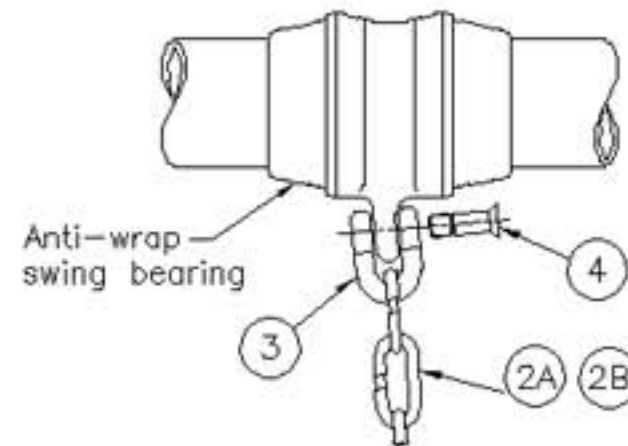
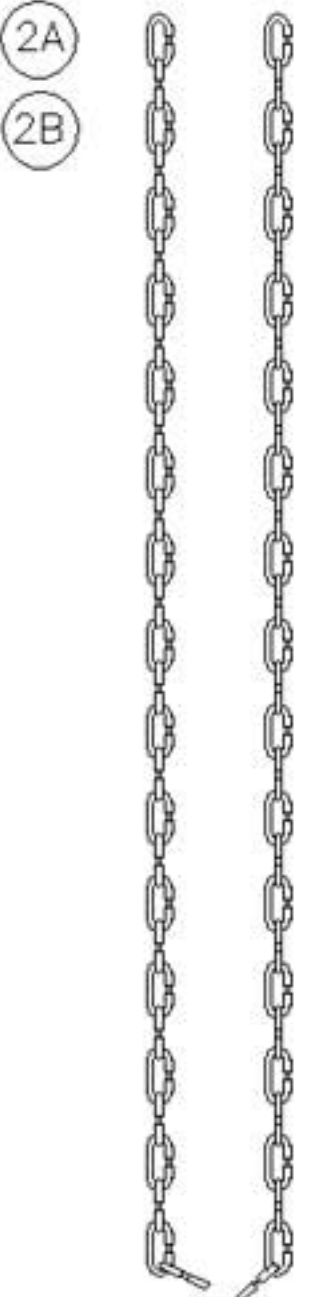
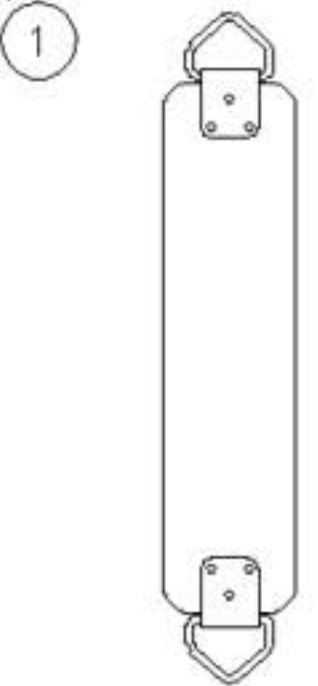
MATERIAL: Rubber with a tempered steel insert molded inside

Installation Instructions

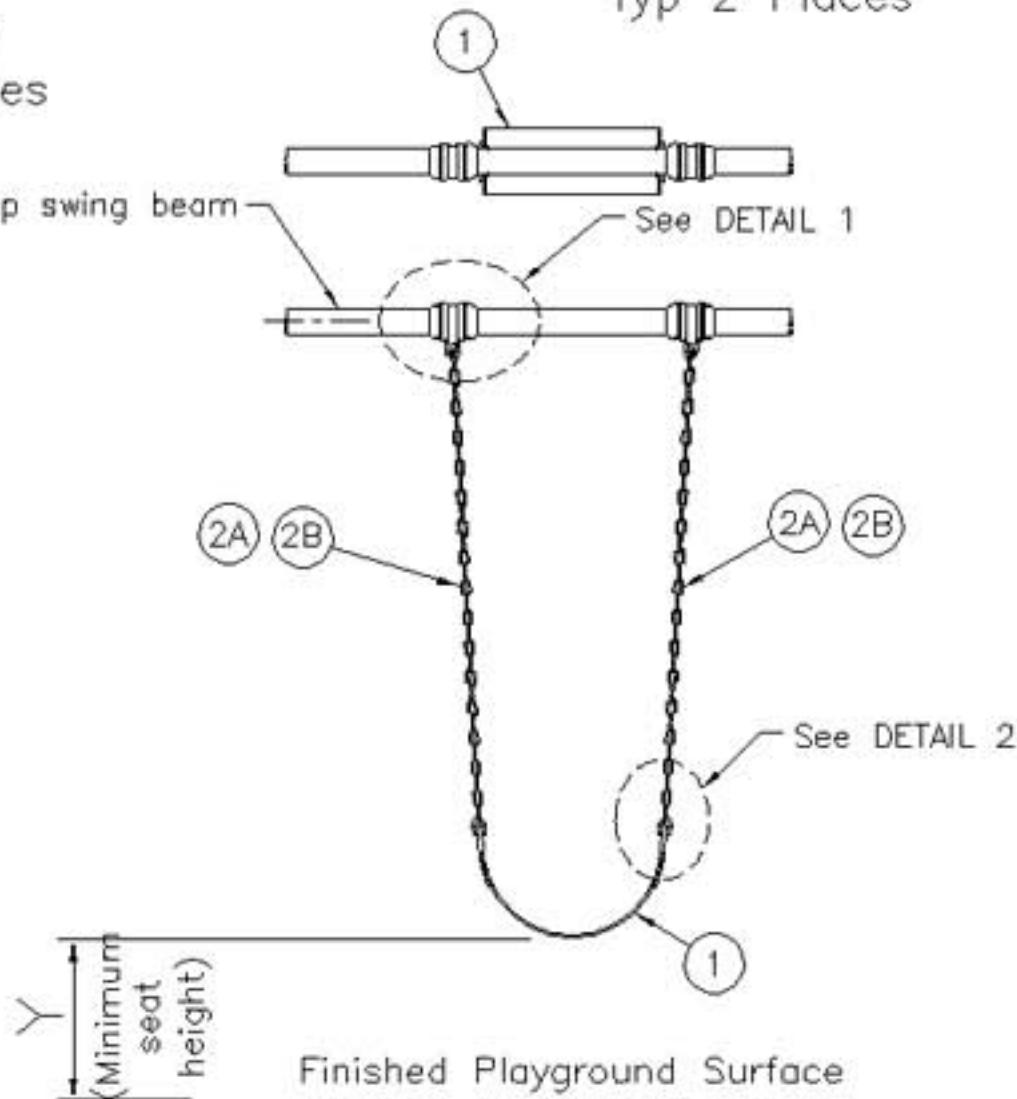
1. Attach chains to beam as shown in DETAIL 1.
2. Determine seat height and trim chains accordingly.
3. Attach swing seat to chains as shown in DETAIL 2.

NOTES:

1. See separate instruction for swing frame installation.



DETAIL 1
Typ 2 Places



NOTE:

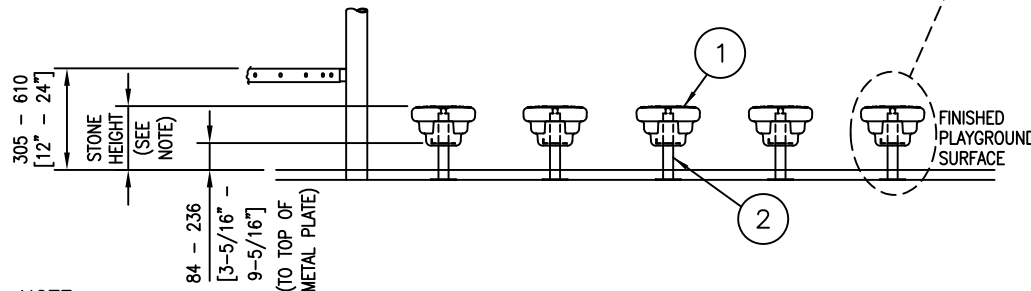
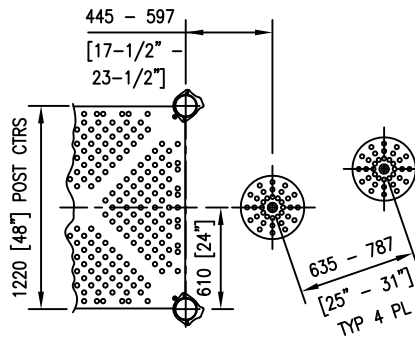
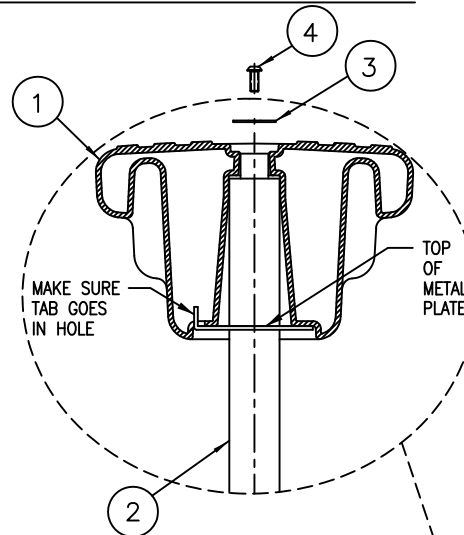
1. MINIMUM SEAT HEIGHT TO BE 12 INCHES



STEPPING STONES

NOTE:

FIRST STEPPING STONE TO BE INSTALLED ON CENTERLINE OF DECK. ADDITIONAL STONES CAN BE INSTALLED AT DESIRED ANGLE. (REFER TO PLAYGROUND LAYOUT DRAWINGS FOR APPLICABLE DIMENSIONS).



NOTE:

THE STANDARD HEIGHT IS 381mm [15"] ABOVE FINISHED GROUND SURFACE HEIGHT CAN VARY FROM 305mm [12"] - 457mm [18"] (INGROUND FOOTING WILL BE ADJUSTED TO ACCOMMODATE)

STEPPING STONES

200092701
KB500007D
SHEET 1 OF 1

AUTHORIZED BY:
TRACY ARCHER 02MAY17

STEPPING STONES 200092591

Item	Code	Description	Qty.*
1	-	PLASTIC STONE	1*
2	-	POST F/STONE PODS (INGROUND OR SURFACE MT.)	1*

HDWR BAG F/SINGLE STEPPING STONE 200093810

Item	Code	Description	Qty.*
3	117988	WASHER FLAT 3/8 X 2 X .125 SS	1*
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	1*

* ITEMS WILL VARY PER SALES ORDER.

Application

- INSTALL OFF OF A 305mm - 610mm [12" - 24"] DECK ONLY.

Maintenance

- ROUTINELY CHECK ALL HARDWARE.
- INSPECT ALL PAINTED SURFACING FOR DAMAGE.

Installation Instructions

1. DIG FOOTINGS OR PREPARE SITE FOR SURFACE MOUNTING IF NECESSARY.
2. PLUMB POSTS F/STONE PODS AND SECURE THE POSTS TO THE FOOTING. FOR INGROUND INSTALLATION, POUR CONCRETE FOOTINGS.
3. ATTACH STONES TO POSTS AS SHOWN IN DETAIL.
4. INSTALL RESILIENT GROUND SURFACING.

Specifications

ANCHORS

MATERIAL: RDTB ILG 60.3 [2-3/8"] X 3.0 [1/8"] TUBING.

COLOR: AS SELECTED FROM STD. COLOR RANGE.
FINISH: ELECTROSTATICALLY APPLIED DRY POWDER POLYESTER PAINT.

STEPS

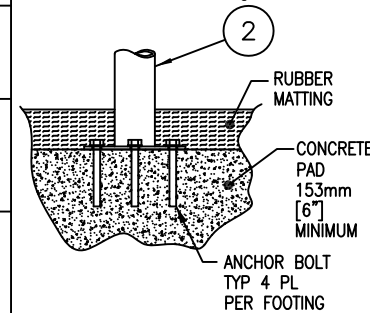
MATERIAL: ROTATIONALLY MOLDED LINEAR LOW DENSITY POLYETHYLENE.

COLOR: AS SELECTED FROM STD. COLOR RANGE.
FINISH: NONE.

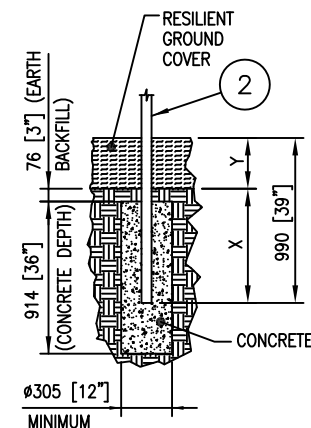
FASTENERS

FINISH: STAINLESS STEEL (METRIC).

Surface Mount Footing Detail



Inground Footing Detail



X PLUS Y = 990mm

INST F/NRG FREESTYLE HUB

200313248
NRG60001B
SHEET 1 OF 6
14JAN13
AUTHORIZED BY:
ERIC CLOWDUS

200202989 NRG FREESTYLE 2 UP HUB

Item	Code	Description	Qty
1A	-	RAIL 2 HUB F/NFS	1
2	200173898	RING PLASTIC SMALL F/STAND N SPIN	1
3	200173899	RING PLASTIC LARGE F/STAND N SPIN	1
4	200309038	RAIL SHROUD	4

200315658 HDWR BAG F/NFS 2 UP HUB

5	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	5
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	17
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	6
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	5
9	200002133	BOLT M8 X 1.25 MALE 27.5 MM	6

200202884 NRG FREESTYLE 3 UP HUB

Item	Code	Description	Qty
1B	-	RAIL 3 HUB F/NFS	1
2	200173898	RING PLASTIC SMALL F/STAND N SPIN	1
3	200173899	RING PLASTIC LARGE F/STAND N SPIN	1
4	200309038	RAIL SHROUD	6

200310578 HDWR BAG F/NFS 3 HUB

5	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	5
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	23
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	9
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	5
9	200002133	BOLT M8 X 1.25 MALE 27.5 MM	9

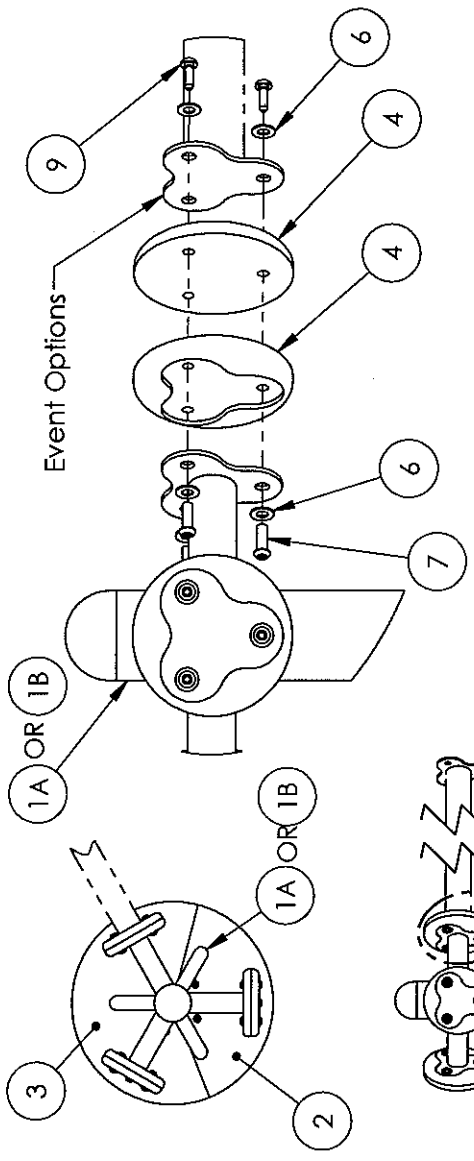
Application

- Hub is not a play event. Rail 2 Hub must be installed with QTY 2 play events and Rail Hub 3 must be installed with QTY 3 play events available for NRG Freestyle Rail System.

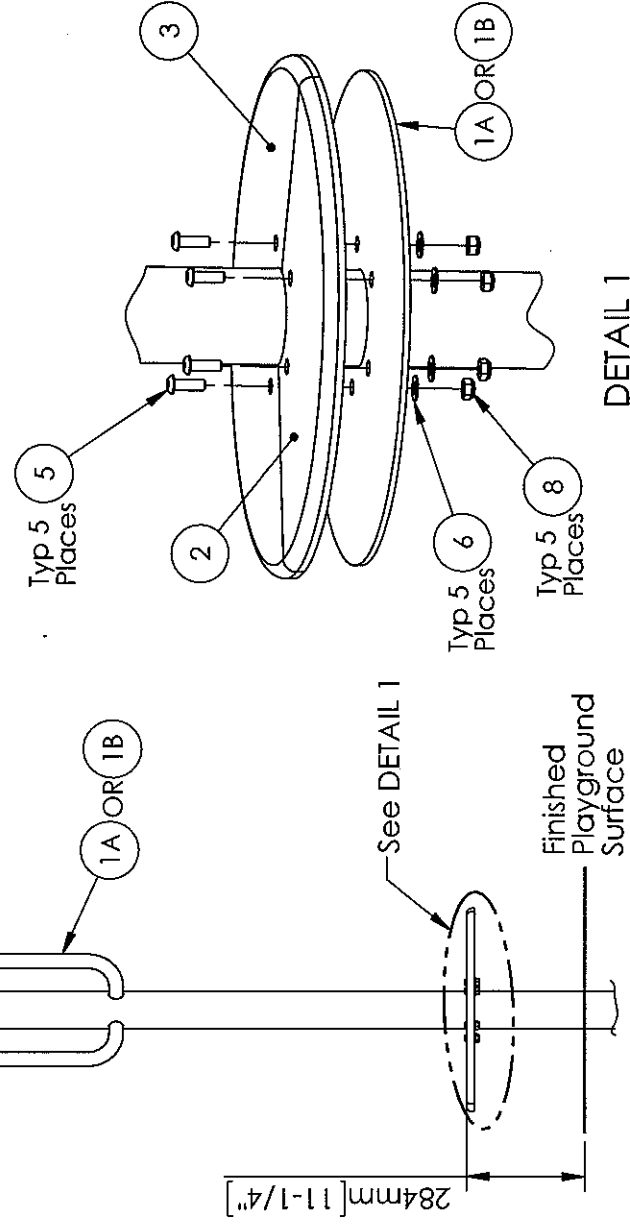
- Age group: 5 - 12 year olds

Installation Instructions

1. Prepare footings per footings details on sheet 3.
2. Install platform (items 2 & 3) as shown in DETAIL 1.
3. Attach overhead events per DETAIL 2.
4. Complete footings and install approved resilient surfacing material.



DETAIL 2
3 Places



DETAIL 1

INST F/NRG FREESTYLE HUB

200313248
NRG60001B
SHEET 2 OF 6
AUTHORIED BY: 14JAN13
ERIC CLOWDUS

BEFORE STARTING INSTALLATION OF YOUR LITTLE TIKES COMMERCIAL PRODUCT, "PLEASE READ INSTRUCTIONS THOROUGHLY"

This playevent is designed to suit a level site. Should there be any slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

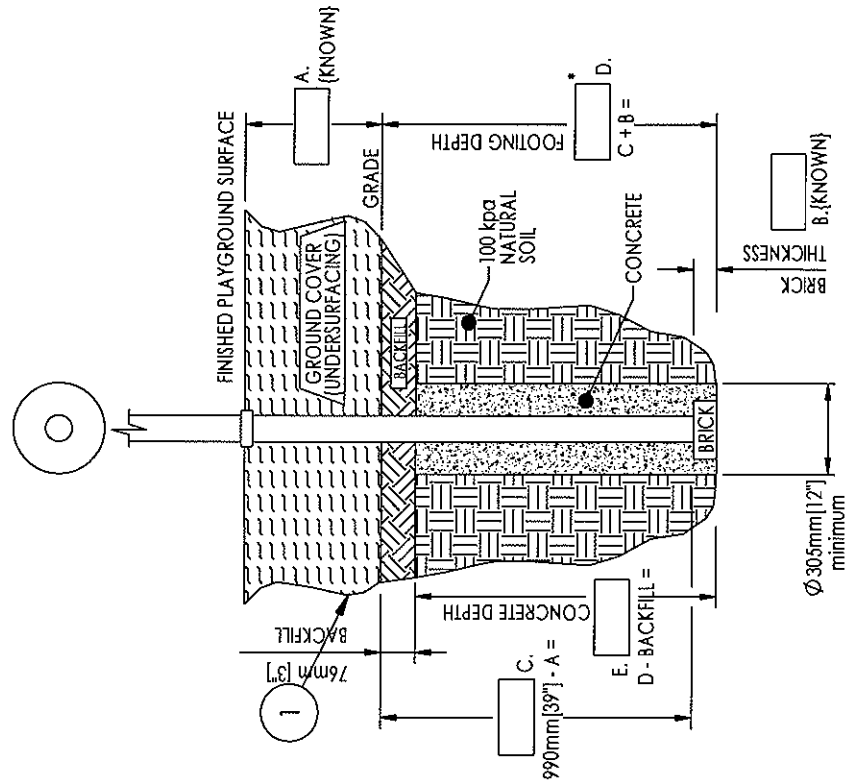
As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm [3.5"] to 229mm [9"], or string entanglements. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

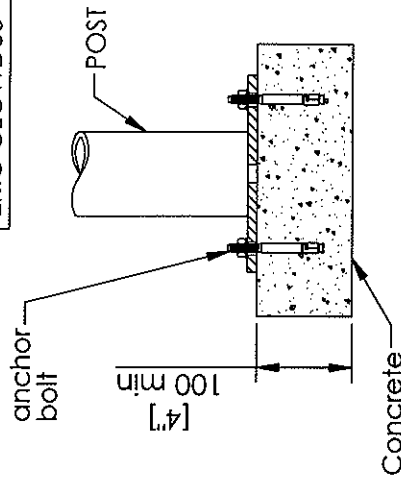
The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

POST FOOTING DETAIL



INGROUND



SURFACE MOUNT

1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E)
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.

- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 990mm[39"] - A BECAUSE A + C SHOULD ALWAYS EQUAL 990mm[39"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.
*MINIMUM 610mm[24"] + BRICK THICKNESS.
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

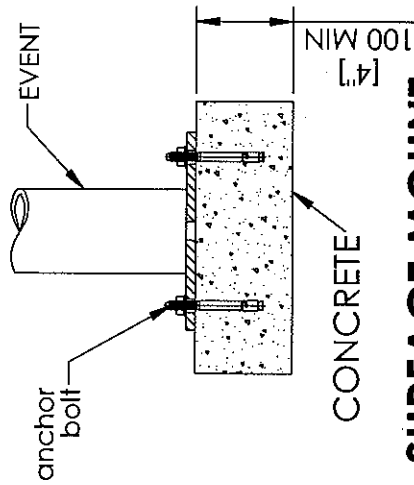
$$= 0.067 \text{ m}^3 \times \left\{ \frac{\text{CONCRETE DEPTH [mm]}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{m}^3$$

$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH [in]}}{36} \right\} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will be able to provide you with the information you require.

EVENT FOOTING DETAIL



SURFACE MOUNT

1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E)
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.

- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 685mm[27"] - A BECAUSE A + C SHOULD ALWAYS EQUAL 685mm[27"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.
* MINIMUM 305mm[12"] + BRICK THICKNESS
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

HOW MUCH CONCRETE?

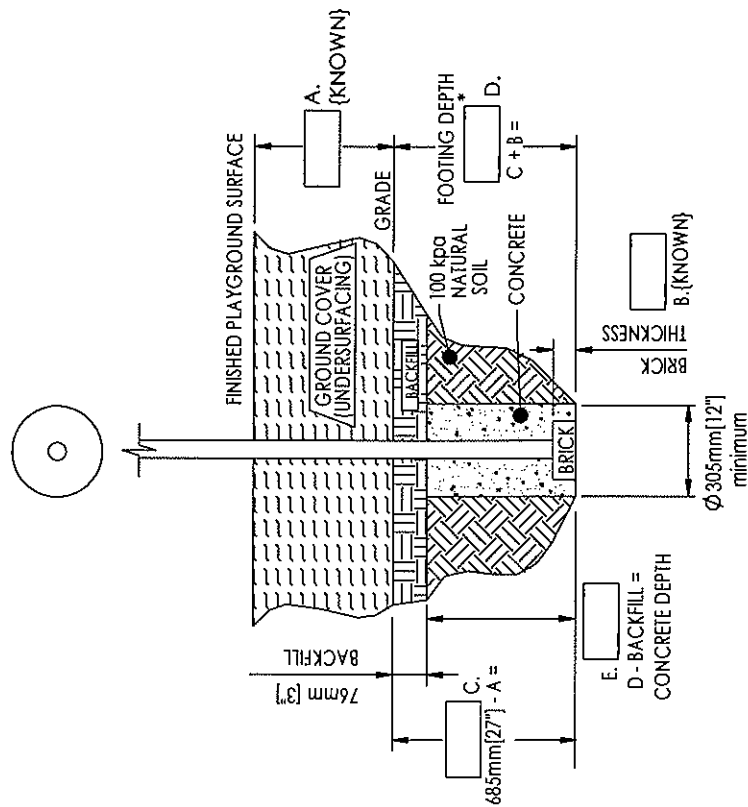
VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$$= 0.067 \text{ m}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{m}^3$$

$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{36} \right\} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

INGROUND



If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-6828. They will be able to provide you with the information you require.

INST F/NRG FREESTYLE HUB

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NRG60001B
SHEET 5 OF 6
AUTHOR: BY: 14JAN13
ERIC CLOWDUS

LABELS:

Safety Labels have been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the potential safety risk involved if a fall onto a hard surface occurs. It is important when installing your playground equipment to display this label in a prominent location on each structure.

The label should be placed such that it will:

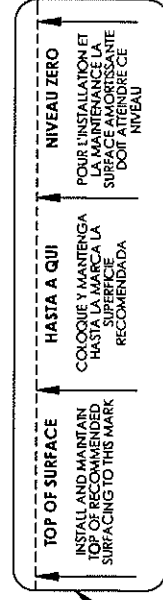
- 1) be readily visible to the intended viewer.
- 2) alert the viewer to the potential hazard in time to take appropriate action.

Surfacing labels have been provided to assist with the installation of your ground cover. After installing your ground cover, these labels should be placed on posts by the installer. Attach a label to a post so that the line is level with the ground cover as erosion or compaction of the surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing. If the surfacing is worn away, it greatly reduces its effectiveness.

PLAYGROUND EQUIPMENT INSTALLED OVER HARD SURFACES SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS. MAKE SURE THAT APPROPRIATE SAFETY SURFACING IS PRESENT, BEFORE ALLOWING CHILDREN TO PLAY.




CHILDREN HAVE STRANGLED AND DIED WHEN THEIR CLOTHING CAUGHT ON SLIDES AND OTHER PLAYGROUND EQUIPMENT. BEFORE ALLOWING CHILDREN TO PLAY, REMOVE HELMETS, SCARVES, NECKLACES, HOOD CORDS, NECK DRAWSTRINGS, AND MITTENS CONNECTED THROUGH SLEEVES. ALSO REMOVE ANY FOREIGN ROPES, STRINGS, OR SHOE LACES THAT MAY BE TIED TO THE EQUIPMENT.

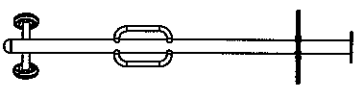
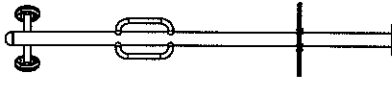
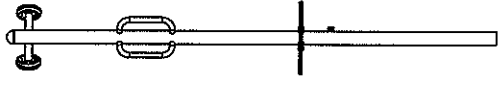
ALL PLAYGROUND EQUIPMENT AND RUBBER SAFETY SURFACING MAY BECOME HOT ENOUGH TO CAUSE BURNS. CHECK FOR HOT SURFACES BEFORE ALLOWING CHILDREN TO PLAY. CHILDREN SHOULD WEAR APPROPRIATE SHOES AT ALL TIMES.



INST F/NRG FREESTYLE HUB

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NRG60001B
SHEET 6 OF 6
AUTHORIED BY: 14JAN13
ERIC CLOWDUS








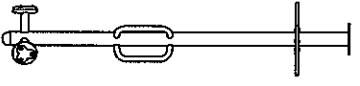
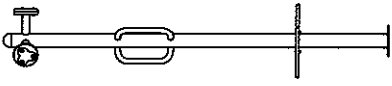
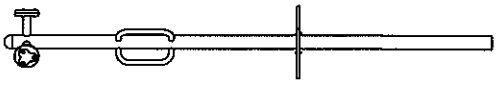




40mm [1-1/2"]
Surface Mount

305mm [12"]
Surface Mount

Inground Mount

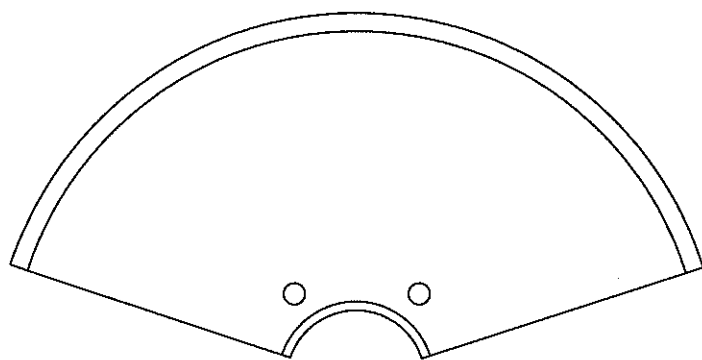




40mm [1-1/2"]
Surface Mount

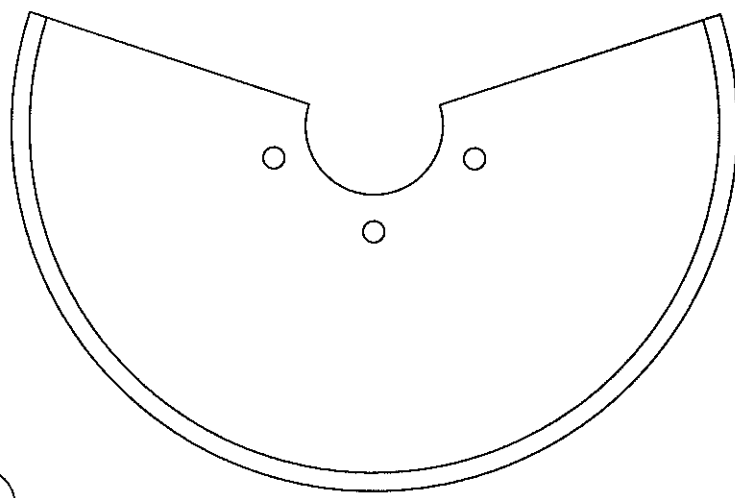
305mm [12"]
Surface Mount

Inground Mount

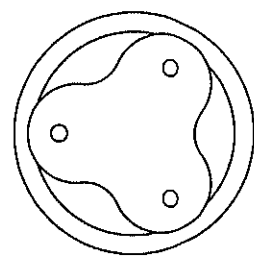
2



3



4



INST F/NRG FREESTYLE FLOATING POMMELS

200313250

NRG60003B

SHEET 1 OF 5

AUTHORIZED BY: 18AUG17
TRACY ARCHER

NRG FREESTYLE FLOATING POMMELS 200202893

Item	Code	Description	Qty
1	902469P	RAIL F/FLOATING POMMELS	1
2	902398P	POLE F/NRG FLOATING POMMELS	3
3	912833P	FLOATING POMMEL BTM F/NFS RAIL	3
4	200000423	POMMEL BLACK	3
5A	904440P	PLATE FOOTING W/BUSHING F/NFS NET SM40	3
5B	904439P	FOOTING W/BUSHING F/NFS NET SM305	3
5C	907484P	FOOT W/BUSHING F/KINETIC AGILITY PODS	3
6	902240	PARTS CARTON F/FLOATING POMMELS	1
7	HW2893-1	HRDW PKG FLTNG POMMEL M1/1	3

HRDW PKG FLTNG POMMELS M1/1 - HW2893-1

8	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	2
9	200002133	BOLT M8 X 1.25 MALE 27.5MM	1
10	200002138	BOLT M8 X 1.25 MALE 42.5MM	1
11	988204A	SHACKLE "D" (LARGE) CLEVIS	1
12	988204B	SHACKLE "D" (LARGE) BOLT	1
13	200035993	SHACKLE "D" STYLE 41MM 300 S.S.(SMALL)	2
14	200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE(SM)	2
15	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57MM	4
16	104506	BOLT 3/8-16 X 1 1/4 BHD 6 LOBE 18-8 SS	1

PARTS CARTON F/FLOATING POMMELS - 902240

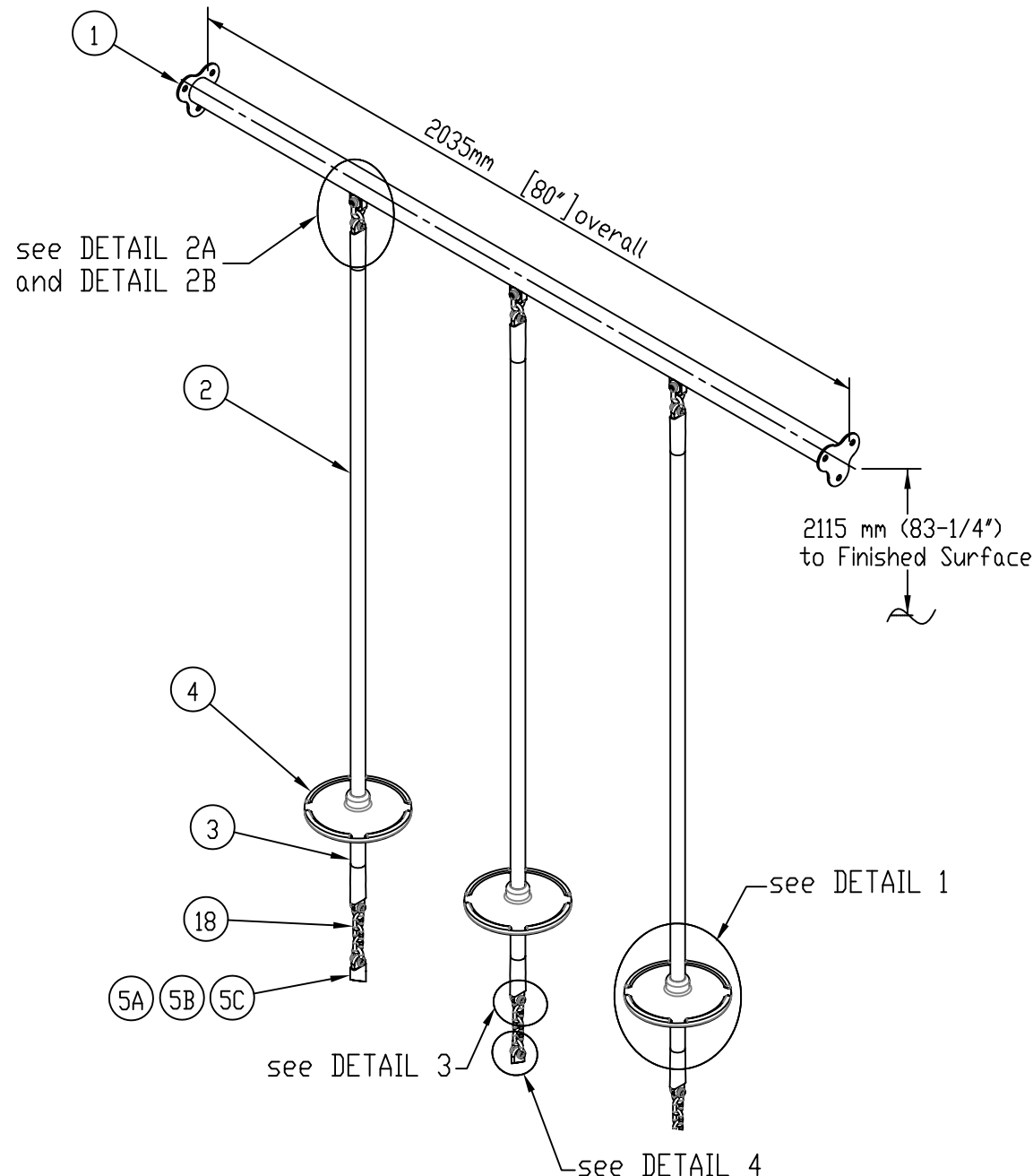
17	986519	CHAIN 7/0-4 LINKS LONG	3
18	200310571	CHAIN 8MM HOT-DIP GALV. (3 LINKS)	3

Application

- Age group: 5 - 12 year olds

Installation Instructions

1. Prepare footings.
2. Loosely attach the rail (Item 1) to the supports. See support instruction for installation details.
3. Assemble the top pole and bottom rail (Items 2 and 3) with the pommel (Item 4) as shown in DETAIL 1.
4. Attach the assembly to the rail (Item 1) with (Items 9, 10, and 17) as shown in DETAILS 2A and 2B.
5. Attach the chain (Item 18) to the bottom rail (Item 3) with (Items 13 and 14) as shown in DETAIL 3.
6. Attach the other end of the chains (Item 18) to the footings (Items 5A, 5B and 5C) as shown in DETAIL 4.
7. Tighten all hardware and check bottom chains on each floating pommel assembly for tension. Tighten the assembly as needed by moving the bottom connection down links in the chain.
8. Complete footings and install resilient surfacing.



NOTE: EVENT MAY BE USED ON MULTIPLE PLAY SYSTEMS.
SEE FRONT OF INSTALLATION MANUAL OR NRG60001
FREESTYLE HUB INSTRUCTION FOR FOOTING DETAILS.

INST F/NRG FREESTYLE FLOATING POMMELS

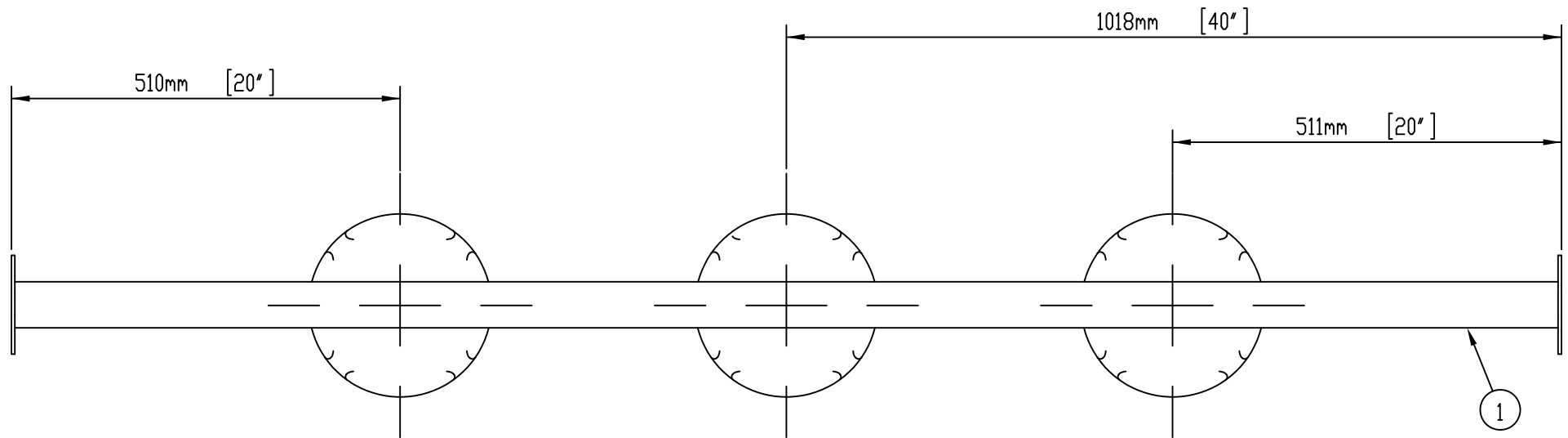
200313250

NRG60003B

SHEET 2 OF 5

AUTHORIZED BY: 18AUG17
TRACY ARCHER

FOOTING DIMENSIONS



INST F/NRG FREESTYLE FLOATING POMMELS

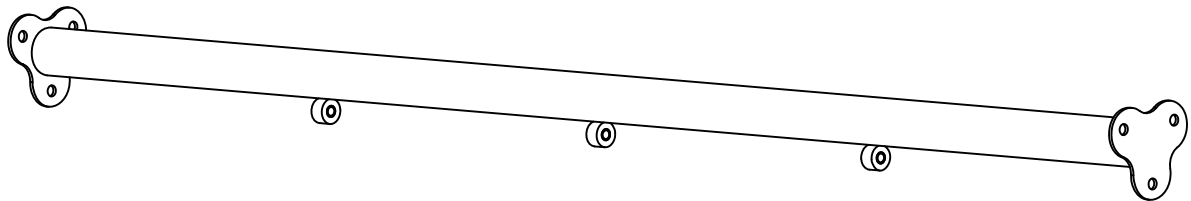
200313250

NRG60003B

SHEET 3 OF 5

AUTHORIZED BY: 18AUG17
TRACY ARCHER

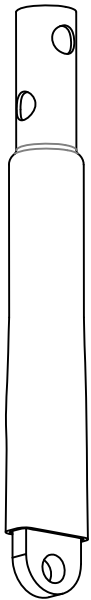
1



2



3

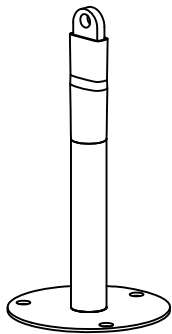


5A



40mm [1-1/2"]
Surface Mount

5B



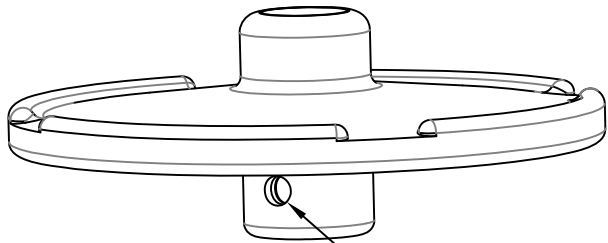
305mm [12"]
Surface Mount

5C



305mm [12"]
Inground Mount

4



Install with hole
on the bottom

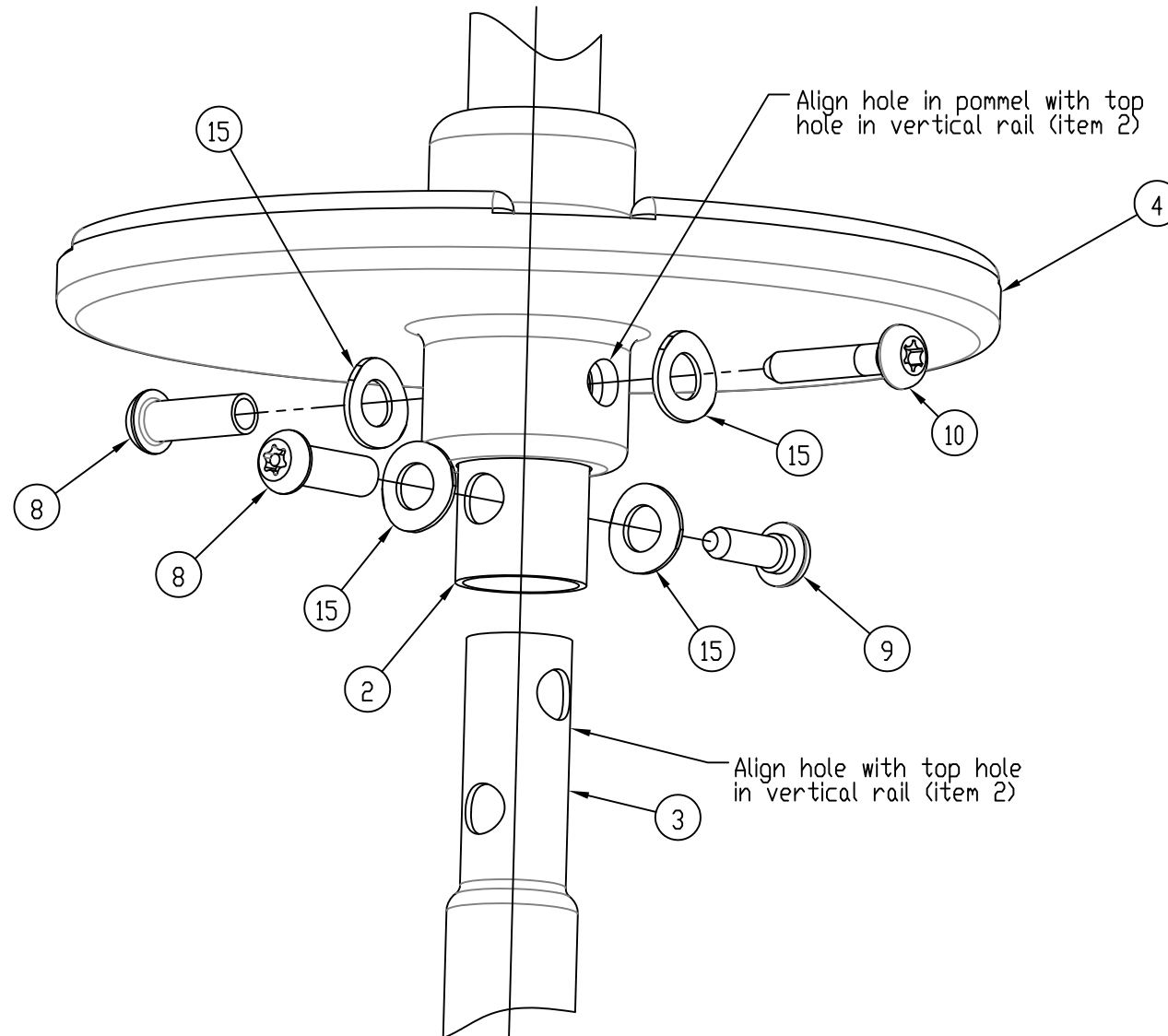
INST F/NRG FREESTYLE FLOATING POMMELS

200313250

NRG60003B

SHEET 4 OF 5

AUTHORIZED BY: 18AUG17
TRACY ARCHER



DETAIL 1
3 places

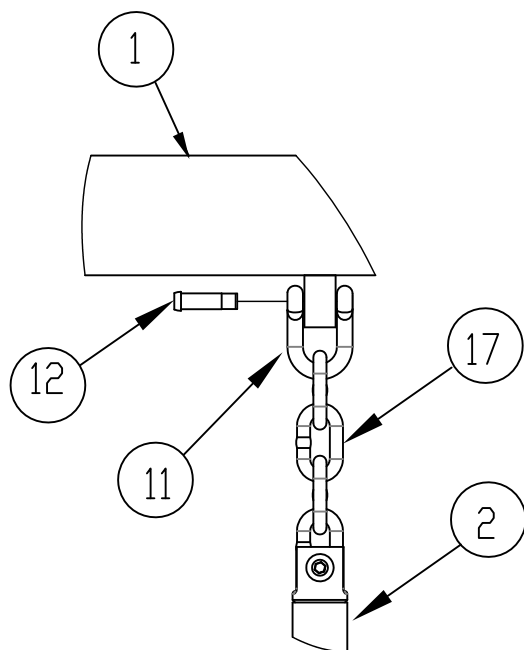
INST F/NRG FREESTYLE FLOATING POMMELS

200313250

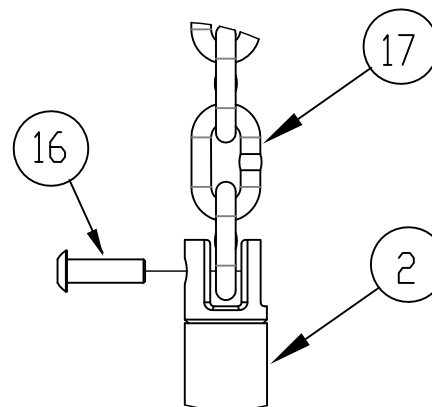
NRG60003B

SHEET 5 OF 5

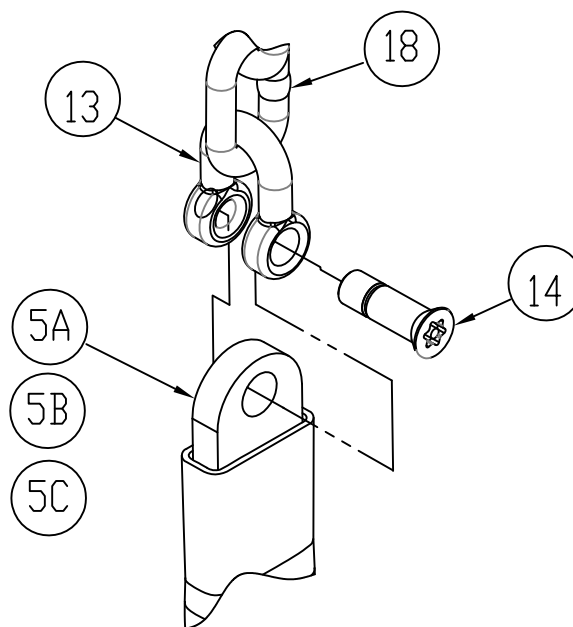
AUTHORIZED BY: 18AUG17
TRACY ARCHER



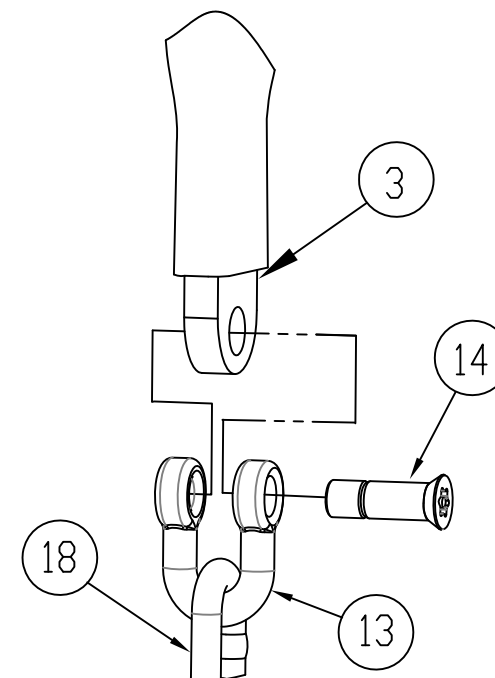
DETAIL 2A
TYP 3 PLS



DETAIL 2B
TYP 3 PLS



DETAIL 4
3 PLS



DETAIL 3
3 PLS

INST F/NRG FREESTYLE VERTICAL NET

200313251
NRG60004A
SHEET 1 OF 4
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS

NRG FREESTYLE VERT NET 200202898

Item	Code	Description	Qty
1	-	RING TREK/NET RAIL F/NFS	1
2	200302376	NET F/STACKED TIMBER ROPE WALL TAN/GRN	1
3	-	FOOTING F/NRG FREESTYLE VERT NET	5

HDWR BAG F/NFS VERT NET 200312880

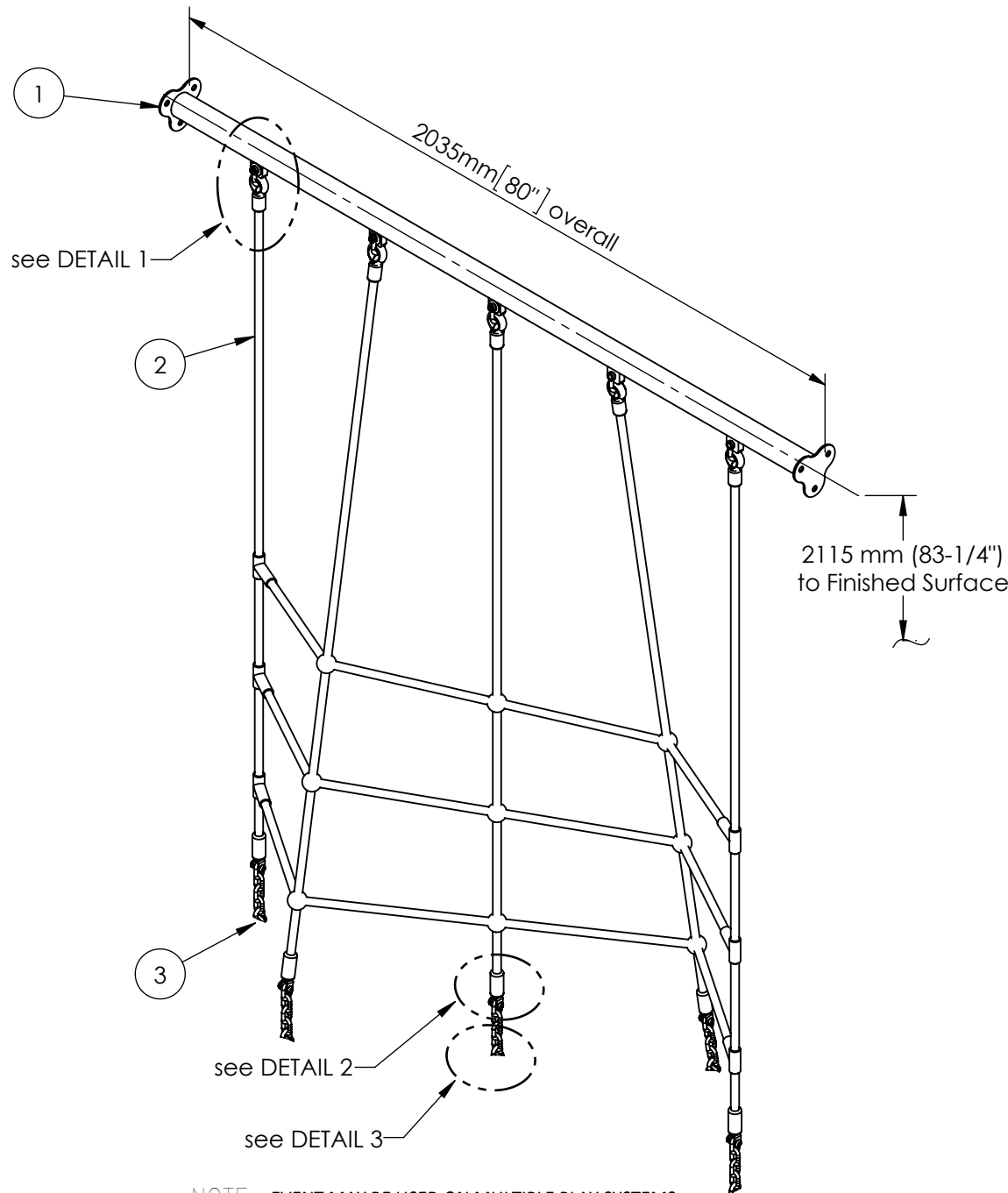
4	200015170	SHACKLE "D" STYLE 300 S.S. (LARGE)	5
5	200016225	BOLT M10 X 1.5 300SS6-LOBE F/DSHACKLE(LG	5
6	200035993	SHACKLE "D" STYLE 41 MM 300 S.S.(SMALL)	5
7	200035994	BOLT M10 X 1.5 X 27 MM 300 SS 6-LOBE(SM)	5
8	200043884	BUSHING BRNZ 10 X 13 X 20 MM(SAE 841)	5
9	200066348	BUSHING BRNZ 10MM X 13MM X 10MM(SAE 841)	5
10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	5
11	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	5
12	SP1249100	WASHER,FLAT-1/2",18-8 SS	10
13	200052106	CHAIN 8MM HOT-DIP GALV. (4 LINKS)	5

Application

- Age group: 5 - 12 year olds

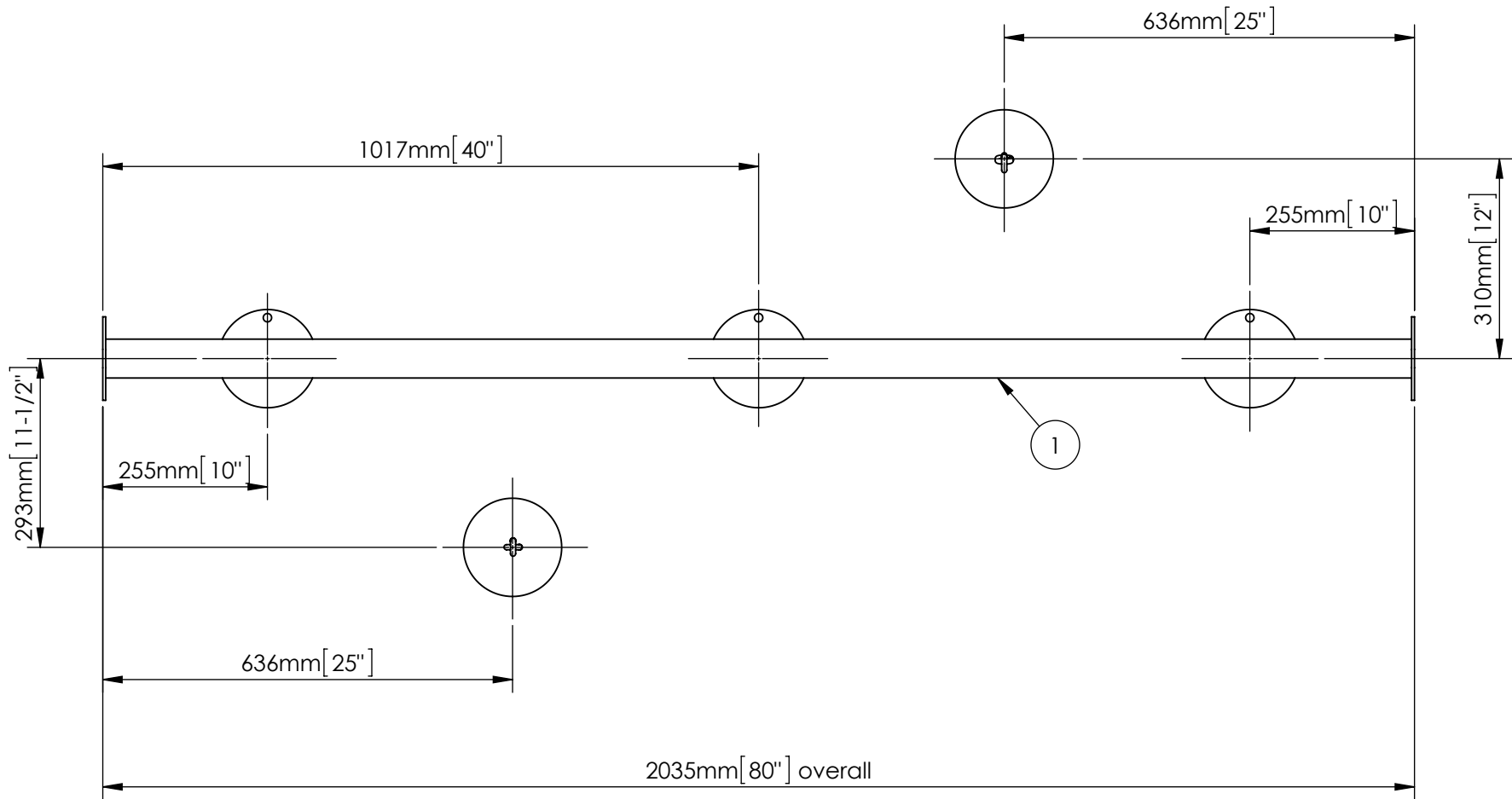
Installation Instructions

1. Prepare footings.
2. Loosely attach the rail (Item 1) to the supports. See support instruction for installation details.
3. Attach the top of the net to the top rail as shown in DETAIL 1.
4. Loosely attach the chains to the bottom of the net as shown in DETAIL 2.
5. Attach the other end of the chains to the footings (item 5) as shown in DETAIL 3.
6. Tighten all hardware, and check bottom chains on each net connection for tension. Tighten the net as needed by moving bottom connection down links in the chain. Trim all extra chain links off.
7. Complete footings, and install resilient surfacing.



NOTE: EVENT MAY BE USED ON MULTIPLE PLAY SYSTEMS.
SEE FRONT OF INSTALLATION MANUAL, OR NRG60001
FREESTYLE HUB INSTRUCTION FOR FOOTING DETAILS.

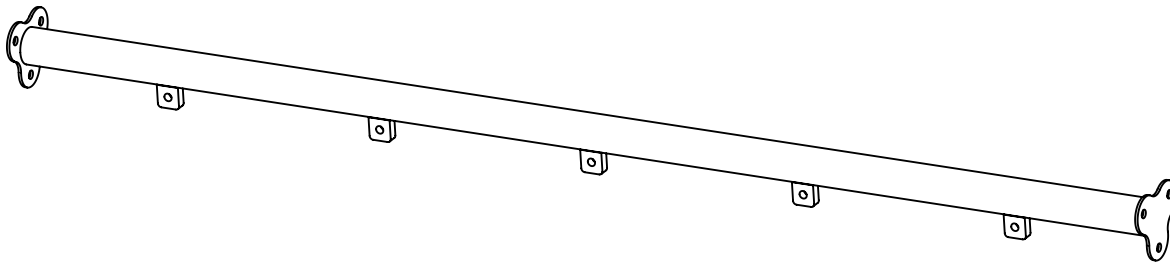
FOOTING DIMENSIONS



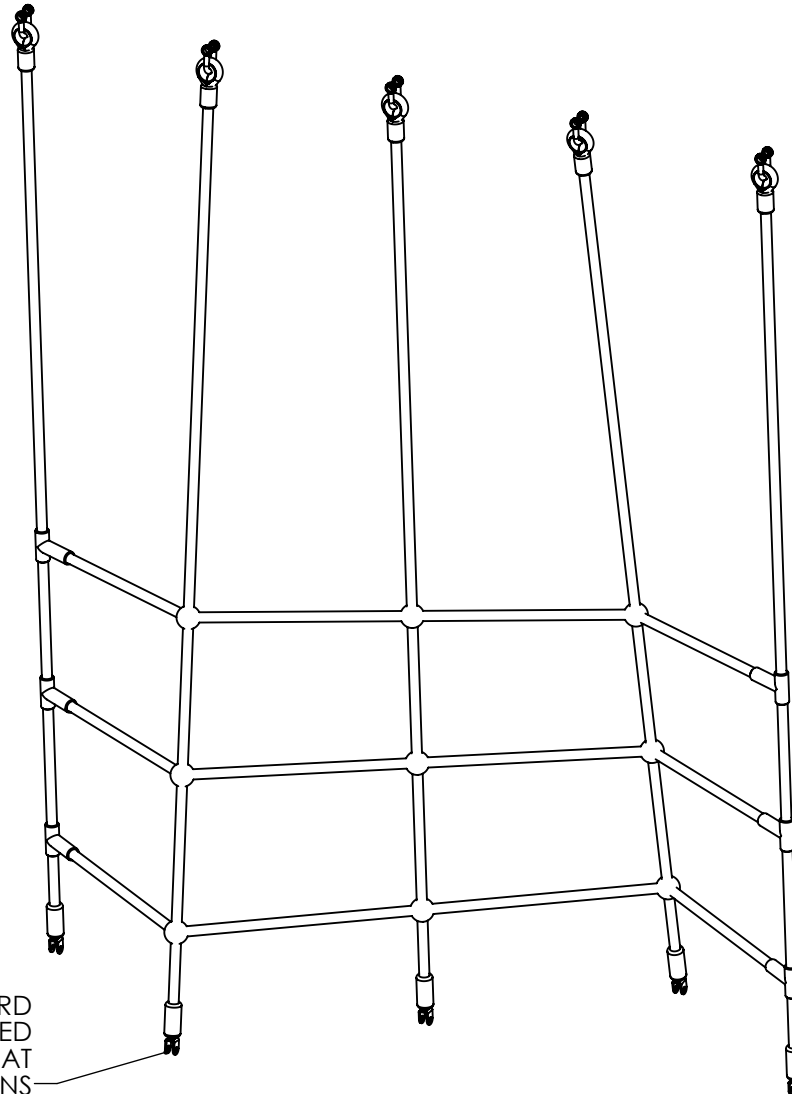
INST F/NRG FREESTYLE VERTICAL NET

200313251
NRG60004A
SHEET 3 OF 4
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS

1

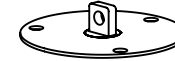


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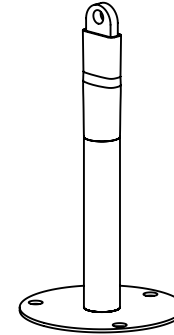


NOTE: REMOVE AND DISCARD
ANY HARDWARE SHIPPED
ATTACHED TO NET AT
THESE 5 LOCATIONS

3



40mm [1-1/2"]
Surface Mount



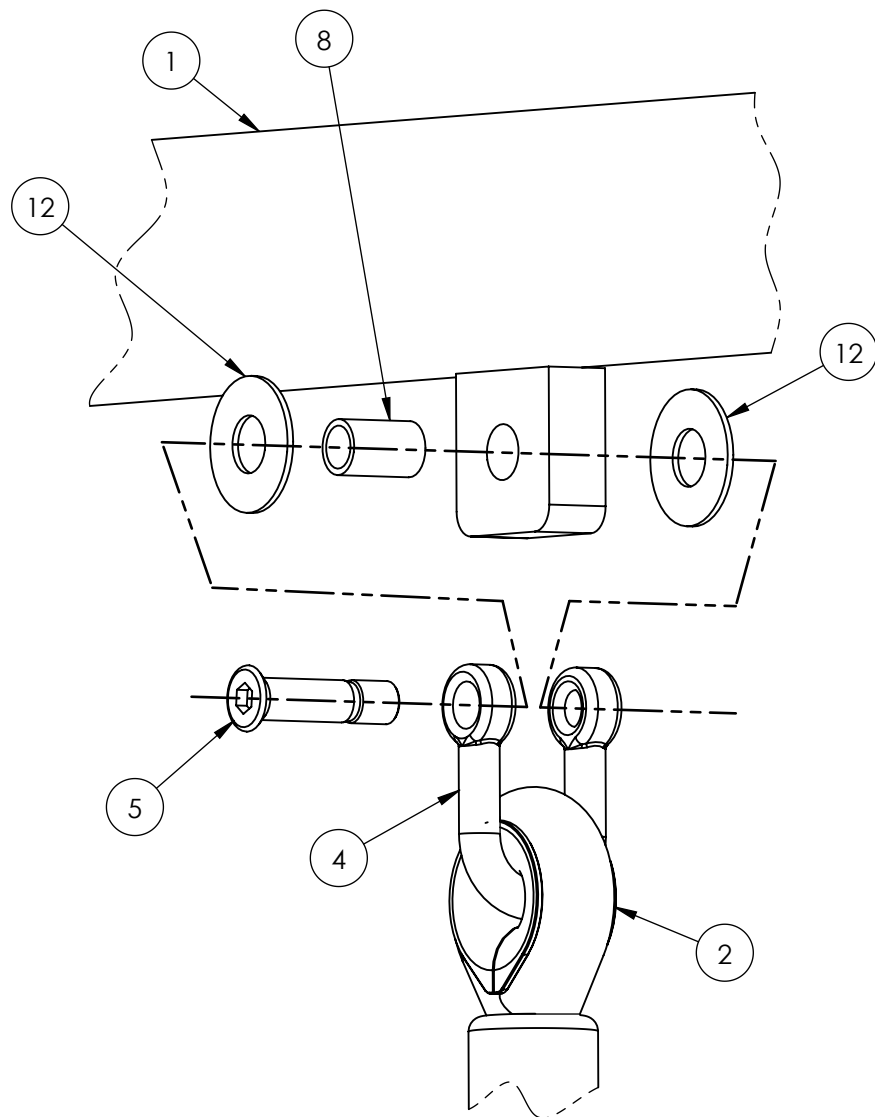
305mm [12"]
Surface Mount



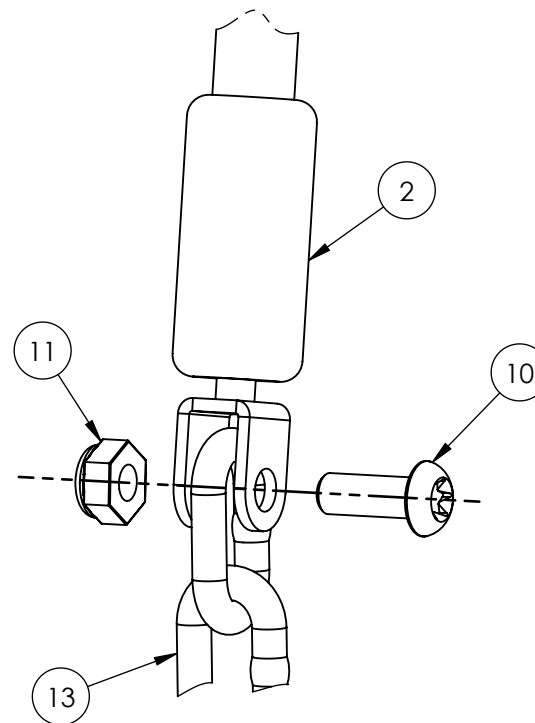
305mm [12"]
Inground Mount

INST F/NRG FREESTYLE VERTICAL NET

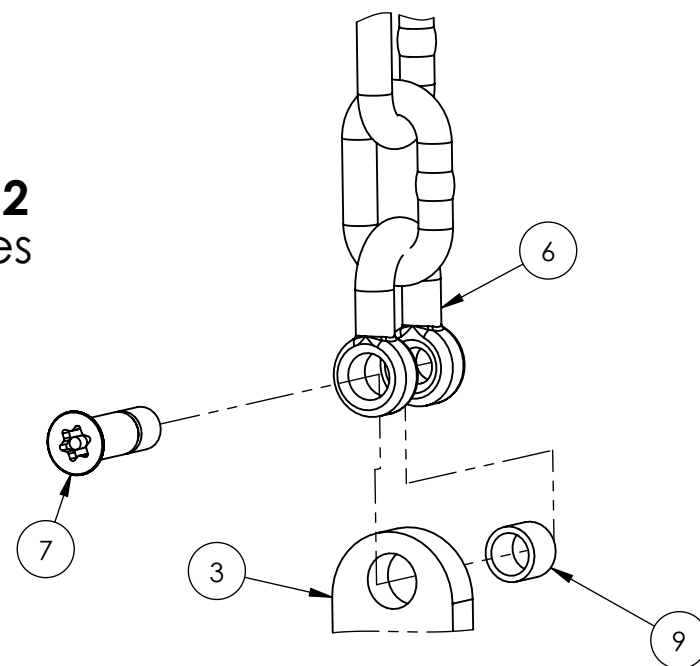
200313251
NRG60004A
SHEET 4 OF 4
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS



DETAIL 1
5 places



DETAIL 2
5 places



DETAIL 3
5 places

INST F/NRG FREESTYLE SOLO AND DOUBLE SOLO POD

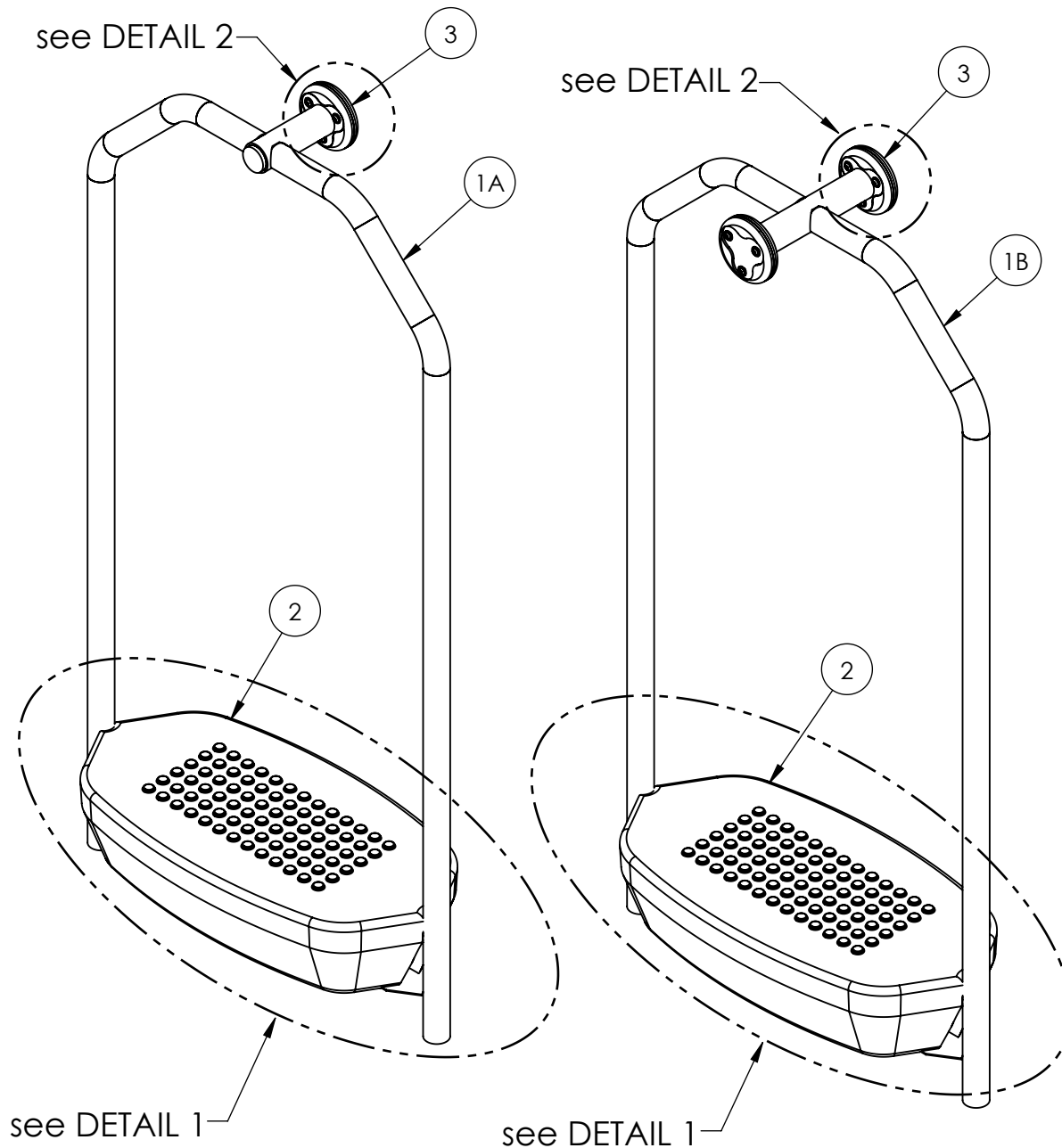
200313252

NRG60005A

SHEET 1 OF 6

AUTHORIZED BY: 14JAN13

ERIC CLOWDUS



SOLO POD

DOUBLE SOLO POD

NRG FREESTYLE SOLO POD 200202887

Item	Code	Description	Qty
1A	-	SINGLE SOLO POD	1
2	-	OVERHEAD LANDING DECK	1

HDWR BAG F/NFS SOLO POD 200310582

3	200309038	RAIL SHROUD	2
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
5	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	3
6	200002133	BOLT M8 X 1.25 MALE 27.5 MM	3
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	12

NRG FREESTYLE DOUBLE SOLO POD 200202888

Item	Code	Description	Qty
1B	-	DOUBLE SOLO POD	1
2	-	OVERHEAD LANDING DECK	1

HDWR BAG F/NFS DOUBLE SOLO POD 200310583

3	200309038	RAIL SHROUD	4
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
5	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	6
6	200002133	BOLT M8 X 1.25 MALE 27.5 MM	6
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	18

Application

- Solo Pod must be installed with one play event and Double Solo Pod must be installed with two play events, available for NRG Freestyle Rail System.

- Age group: 5 - 12 year olds

Installation Instructions

1. Prepare footings per footings details on sheet 5.
2. Install Overhead Landing Deck as shown in DETAIL 1.
3. Attach overhead events per DETAIL 2.
4. Complete footings and install approved resilient surfacing material.

INST F/NRG FREESTYLE SOLO AND DOUBLE SOLO POD

200313252

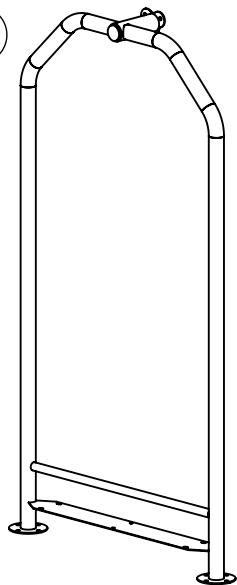
NRG60005A

SHEET 2 OF 6

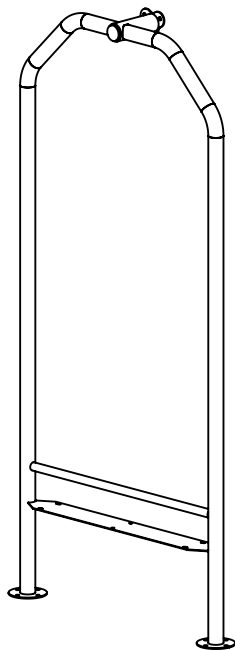
AUTHORIZED BY: 14JAN13

ERIC CLOWDUS

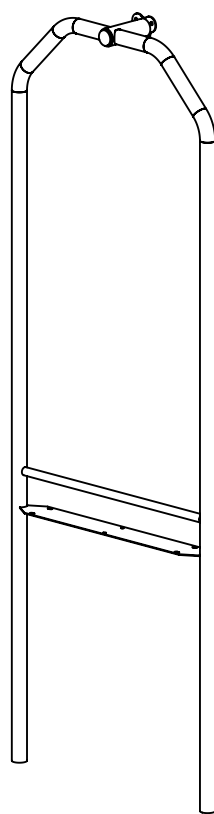
1A



40mm [1-1/2"]
Surface Mount

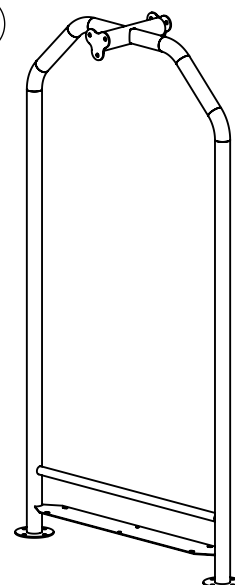


305mm [12"]
Surface Mount

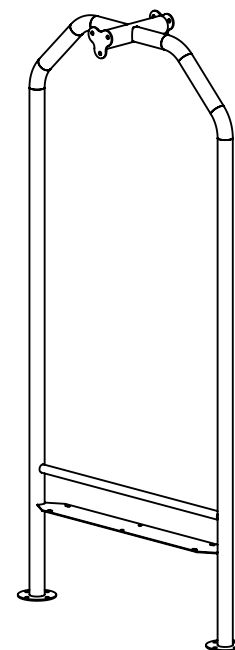


305mm [12"]
Inground Mount

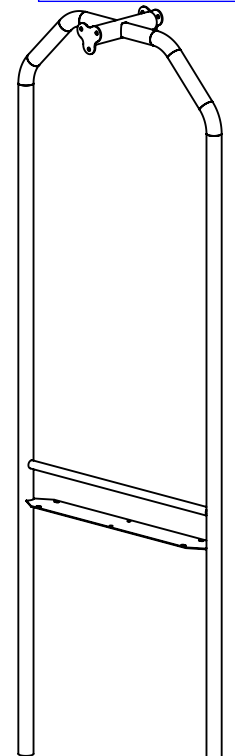
1B



40mm [1-1/2"]
Surface Mount

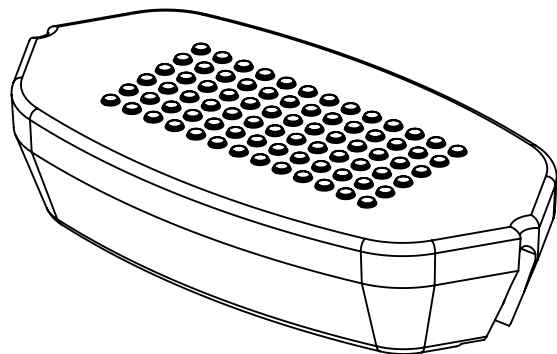


305mm [12"]
Surface Mount

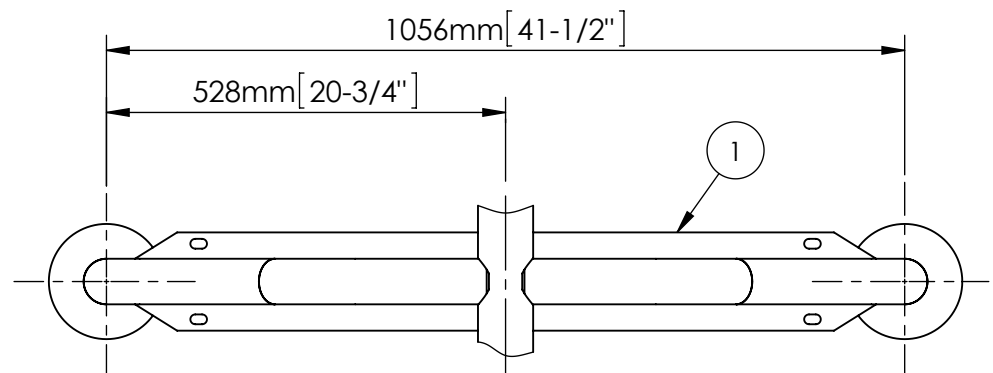
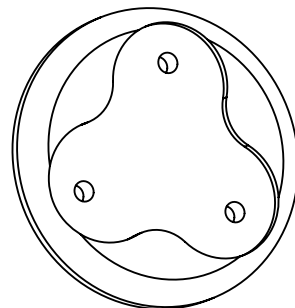


305mm [12"]
Inground Mount

2



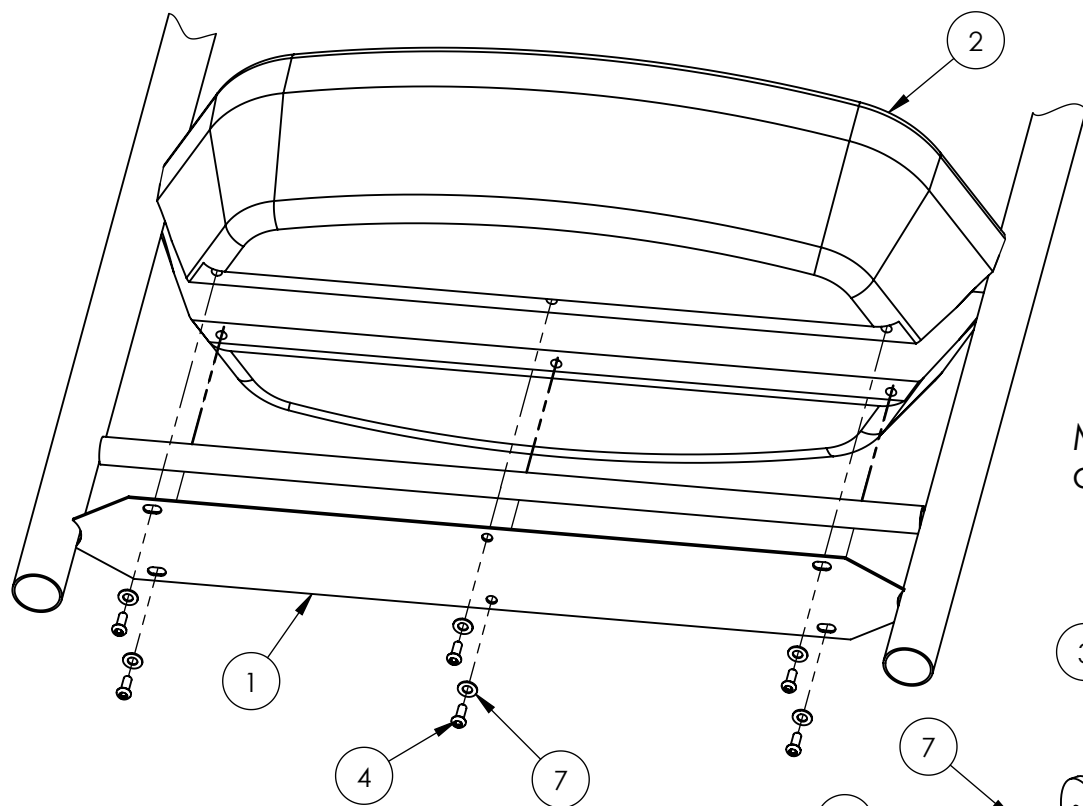
3



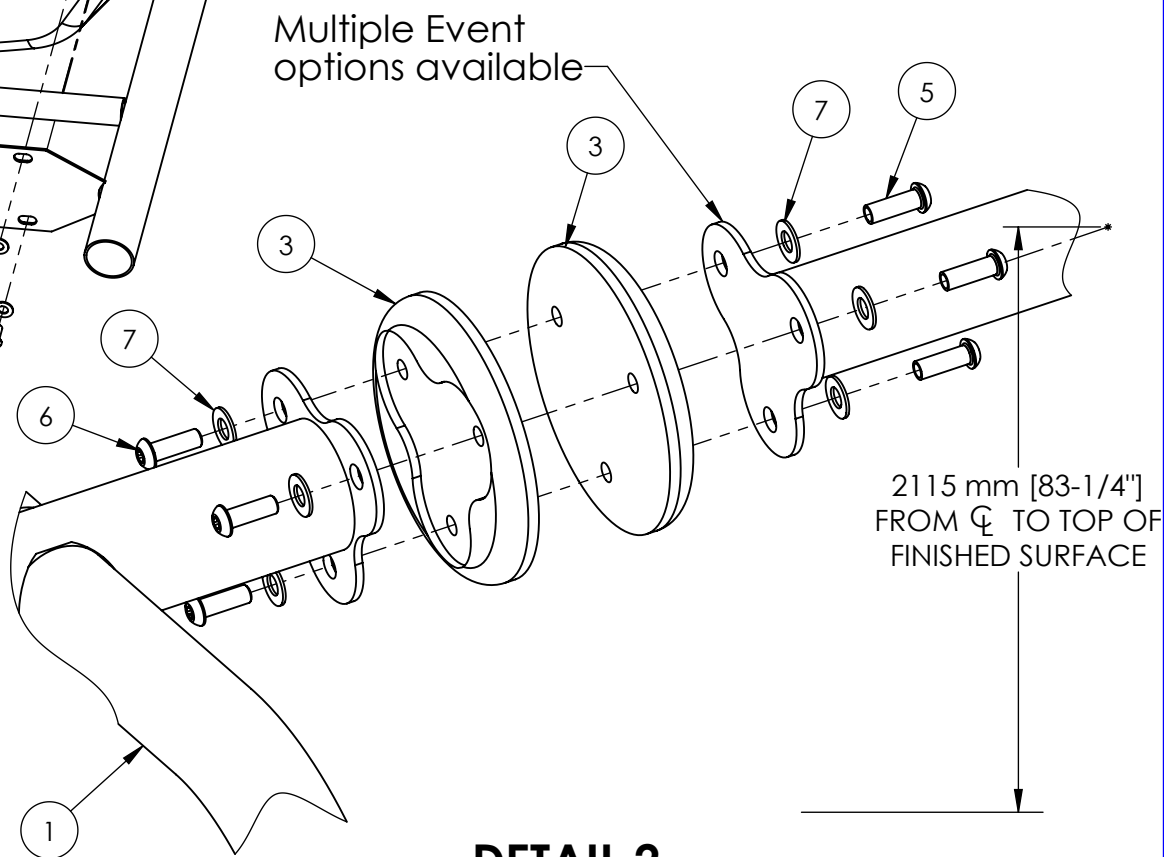
FOOTING DIMENSIONS
(SINGLE AND DOUBLE SOLO POD)

INST F/NRG FREESTYLE SOLO AND DOUBLE SOLO POD

200313252
NRG60005A
SHEET 3 OF 6
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS



DETAIL 1



DETAIL 2

1 place (Solo Pod)
2 places (Double Solo Pod)

BEFORE STARTING INSTALLATION OF YOUR LITTLE TIKES COMMERCIAL PRODUCT, "PLEASE READ INSTRUCTIONS THOROUGHLY"

This playevent is designed to suit a level site. Should there be any slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm [3.5"] to 229mm [9"], or string entanglements. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

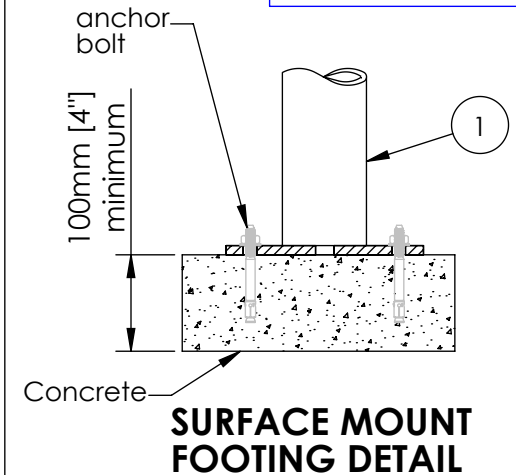
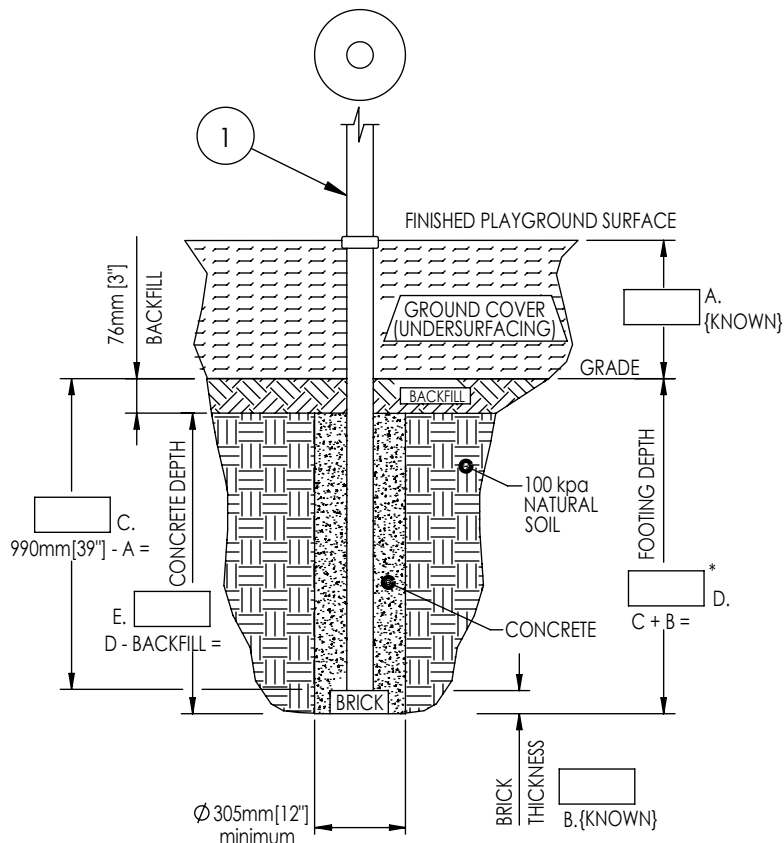
ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

INST F/NRG FREESTYLE SOLO AND DOUBLE SOLO POD

200313252
NRG60005A
SHEET 5 OF 6
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS

INGROUND/LOOSE FILL FOOTING DETAIL



1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E)
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.

A. GROUND COVER DEPTH {KNOWN}.
B. BRICK THICKNESS {KNOWN}.
C. 990mm [39"] - A BECAUSE A + C SHOULD ALWAYS EQUAL 990mm [39"]
D. FOOTING DEPTH = [C] + BRICK THICKNESS.
*MINIMUM 610mm [24"] + BRICK THICKNESS
FOOTING DEPTH REQUIRED
E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm [3"] (BACKFILL).

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$$= 0.067 \text{ M}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{M}^3$$

$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{36} \right\} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

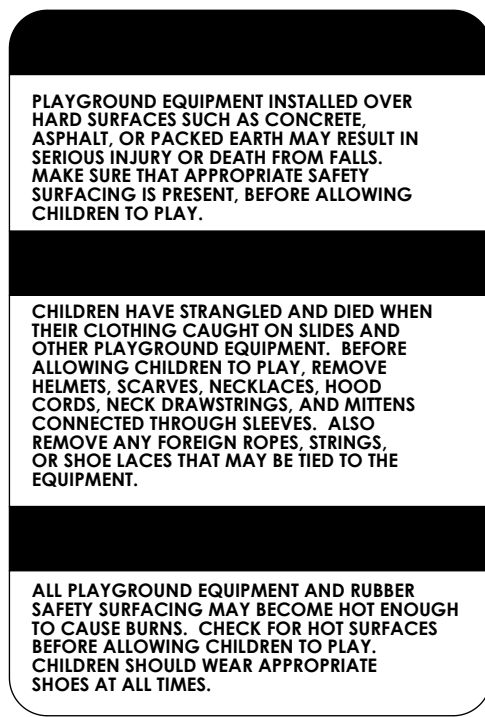
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1 (800) 325-8828. They will be able to provide you with the information you require.

INST F/NRG FREESTYLE SOLO AND DOUBLE SOLO POD

200313252
NRG60005A
SHEET 6 OF 6
AUTHORIZED BY: 14JAN13
ERIC CLOWDUS

LABELS:

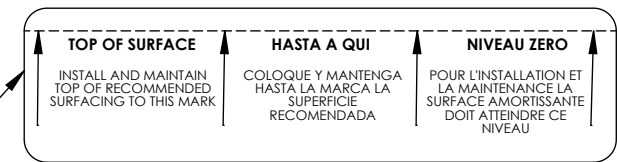
Safety Labels have been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the potential safety risk involved if a fall onto a hard surface occurs. It is important when installing your playground equipment to display this label in a prominent location on each structure.



The label should be placed such that it will:

- 1) be readily visible to the intended viewer.
- 2) alert the viewer to the potential hazard in time to take appropriate action.

Surfacing labels have been provided to assist with the installation of your ground cover. After installing your ground cover, these labels should be placed on posts by the installer. Attach a label to a post so that the line is level with the ground cover as erosion or compaction of the surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing. If the surfacing is worn away, it greatly reduces its effectiveness.



INST F/NRG FREESTYLE OVERHEADS

200313254

NRG60007B

SHEET 1 OF 3

AUTHORIZED BY: 03JAN17
Dustin Imel

NRG FREESTYLE RING TREK 200202890

Item	Code	Description	Qty
1A	-	ASSY RING TREK RAIL F/NFS	1

NRG FREESTYLE INLINE RAIL 200202891

Item	Code	Description	Qty
1B	-	INLINE RAIL F/NFS	1

NRG FREESTYLE LOOP RAIL 200202892

Item	Code	Description	Qty
1C	-	LOOP RAIL F/NFS	1

NRG FREESTYLE FUNWHEEL 200202894

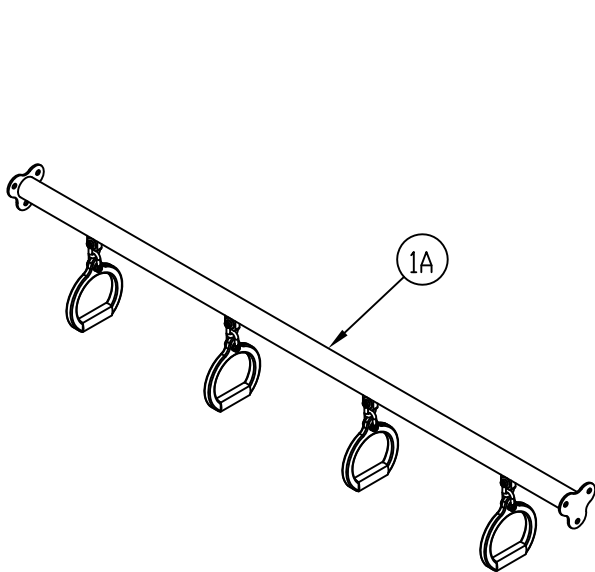
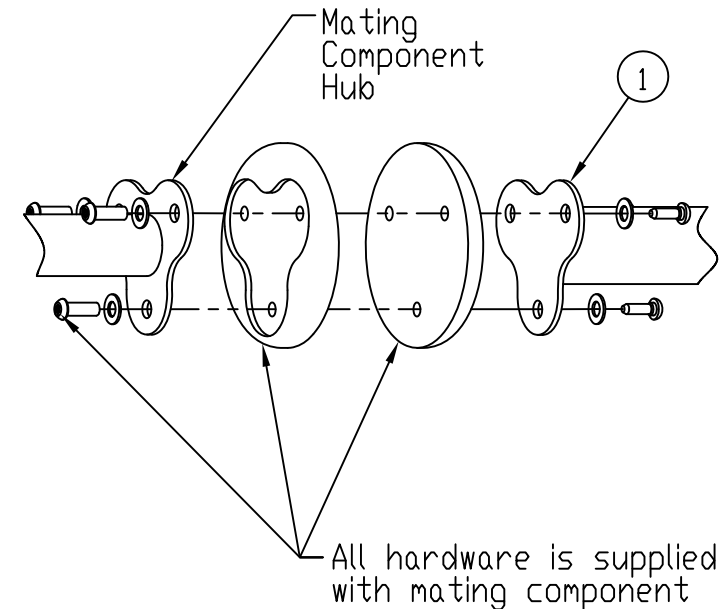
Item	Code	Description	Qty
1D	-	ASSY FUNWHEEL F/NFS	1

Application

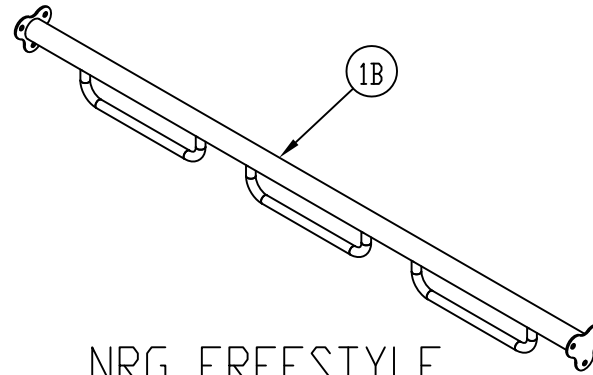
- Age group: 5 - 12 year olds

Installation Instructions

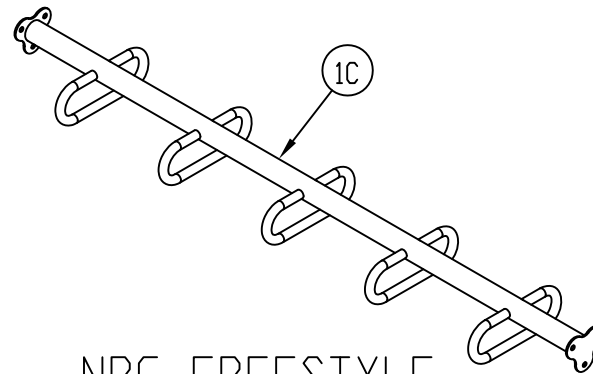
1. Attach overhead to hubs on mating components as shown on mating component installation instruction.



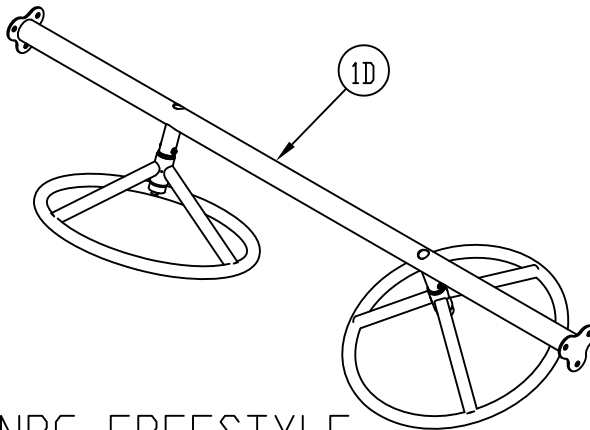
NRG FREESTYLE
RING TREK



NRG FREESTYLE
INLINE RAIL



NRG FREESTYLE
LOOP RAIL



NRG FREESTYLE
FUNWHEEL

INST F/NRG FREESTYLE OVERHEADS

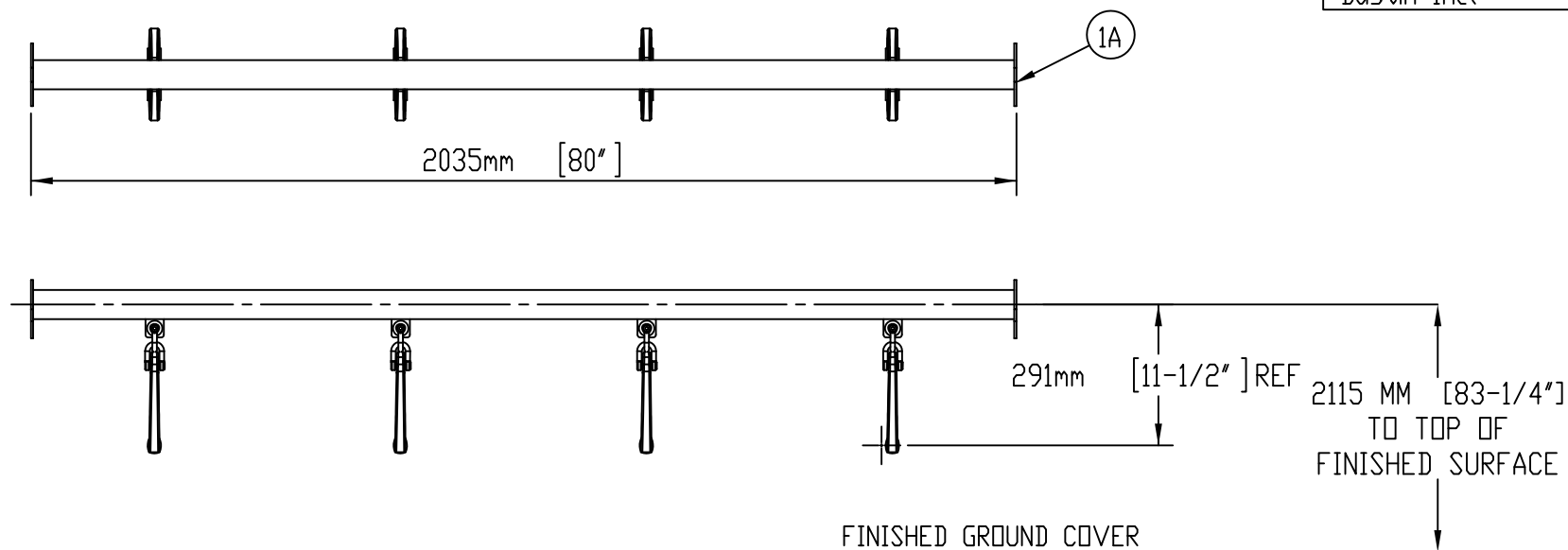
200313254

NRG60007B

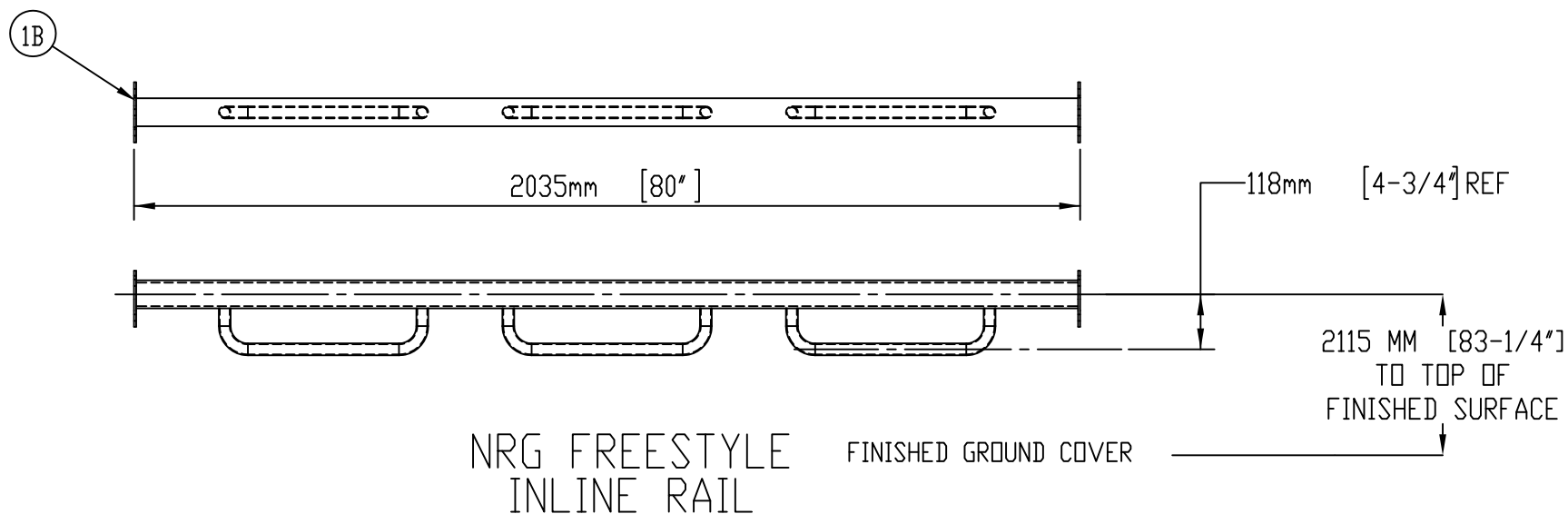
SHEET 2 OF 3

AUTHORIZED BY: 03JAN17

Dustin Imel



NRG FREESTYLE
RING TREK



NRG FREESTYLE
INLINE RAIL

INST F/NRG FREESTYLE OVERHEADS

200313254

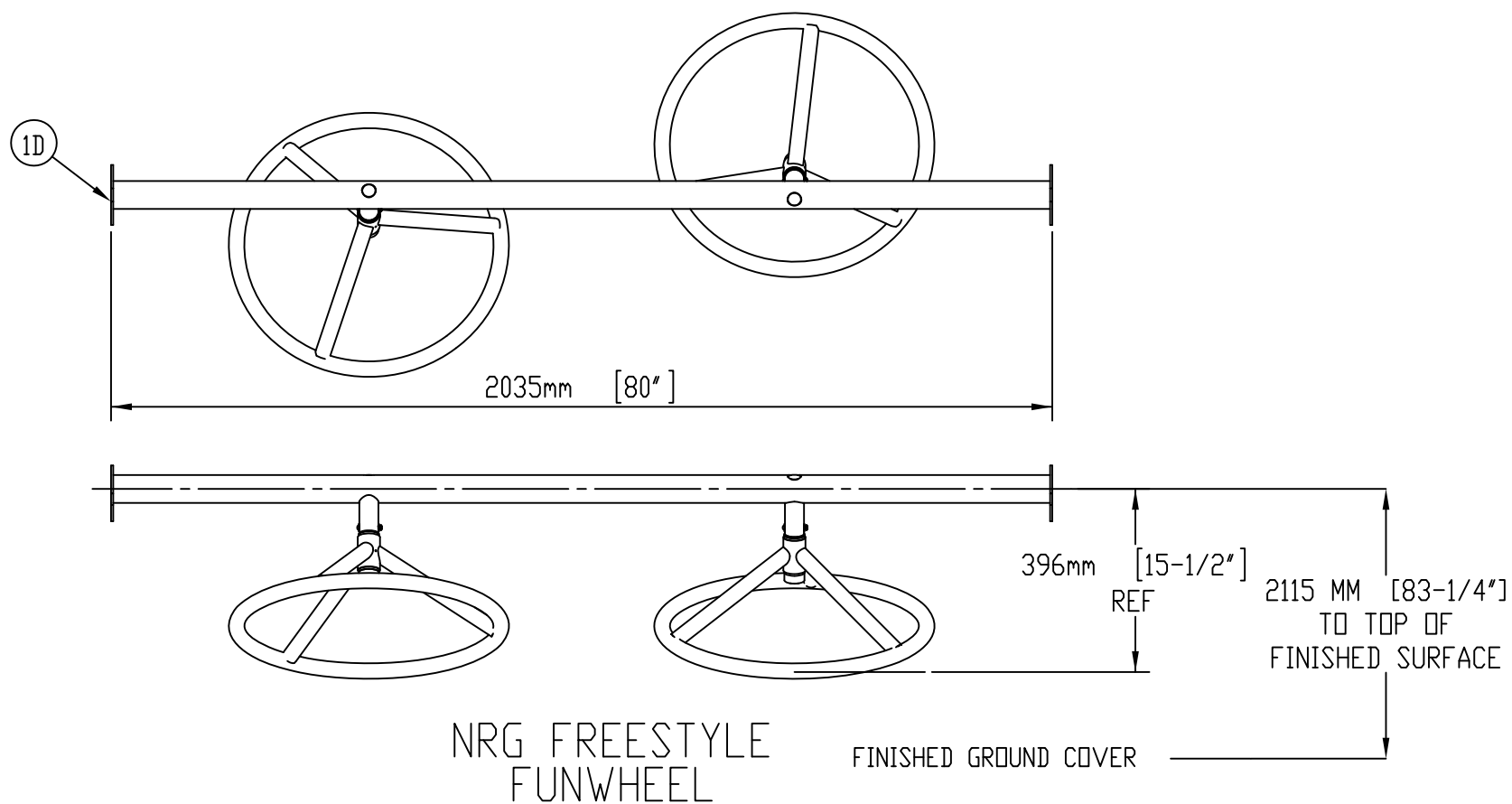
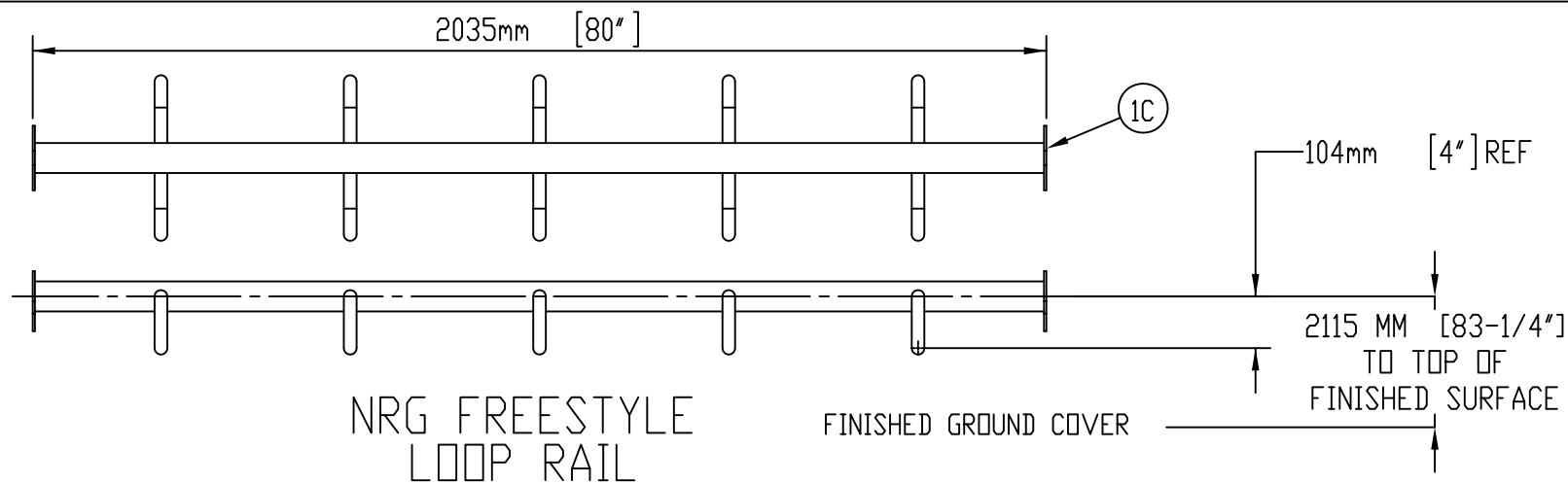
NRG60007B

SHEET 3 OF 3

AUTHORIZED BY:

03JAN17

Dustin Imel



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



Project Number: R0324190109

PlayArea: RiskSign_Included | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

Please, read all information in this manual
before starting to install your equipment.

Date: 2/25/2019 12:00:00 AM

Risk Management Sign

IMPORTANT! The Risk Management Sign is to be installed outside the defined play area and play equipment use zones. It needs to be oriented so that the **front side faces the main entrance to the playground** and next to but not interfering with the accessible route that leads to the play space.

Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>
787	Risk Management Sign - English
787FR	Risk Management Sign - French
787SP	Risk Management Sign - Spanish



Note: English version shown.

Risk Management Sign

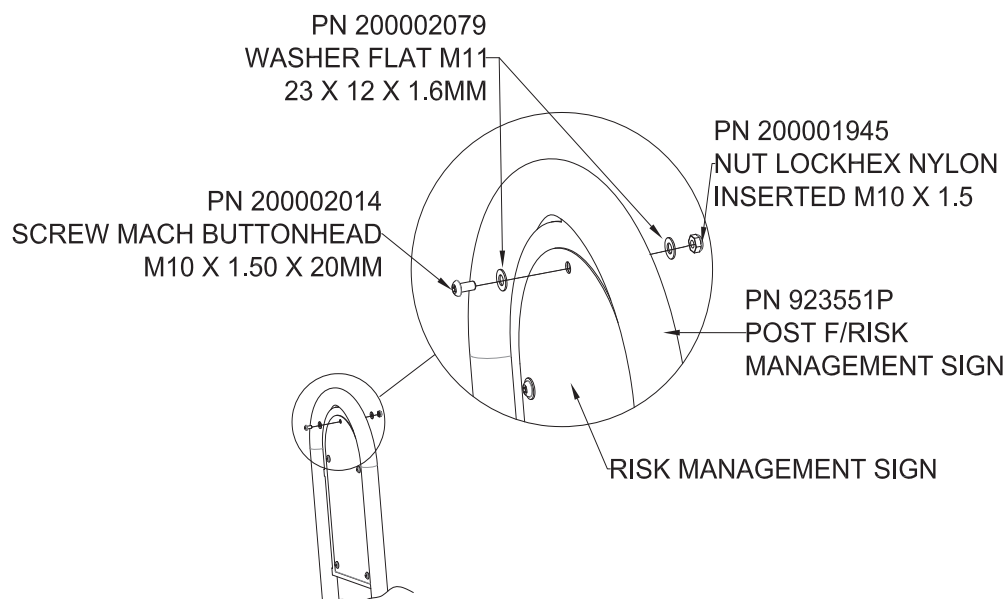
STEP 1 ATTACH AGE-APPROPRIATE STICKER

1a. Attach age-appropriate sticker to sign, in location, as shown below.



STEP 2 ATTACH SIGN TO POST FRAME

2a. Attach sign as shown below, in five (5) locations.

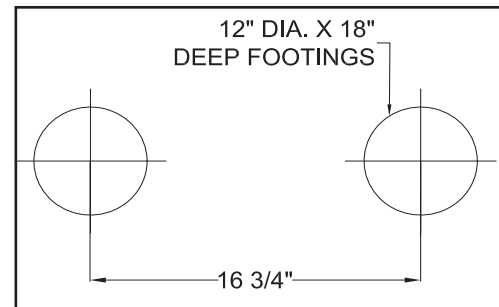


Risk Management Sign

STEP 3 DIG FOOTINGS

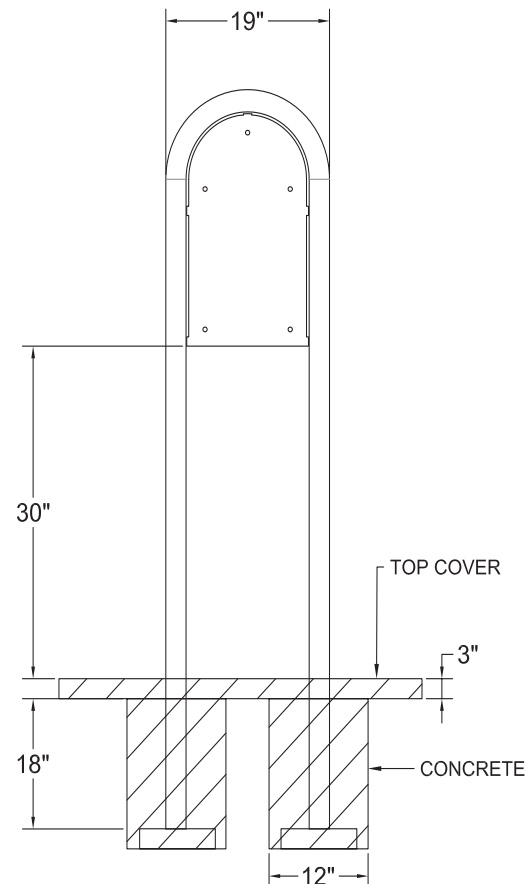
- 3a. Dig footings per *Footing Layouts*, Construction Drawings, and *Footing Details* installation.

Note: Do not pour concrete for footings until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.



STEP 4 SET SIGN IN FOOTINGS

- 4a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 4b. Set risk management sign in footings per Construction Drawings pour concrete; plumb sign in footings and brace in position until concrete is cured.



FINAL STEP

Proceed with *Final Assembly installation* located behind *Installations 101* in Installation Manual.

Risk Management Sign

Bill of Material

Model 200203490

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923560	PC F/787 RISK MNGMT ENGLISH

Parts Carton 923560

1	923287	RISK MNGT SIGN PRINTED ENGLISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Model 200203491

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923558	PC F/787FR RISK MNGMT FRENCH

Parts Carton 923558

1	923288	RISK MNGT SIGN PRINTED ENGLISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Model 200203493

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551P	POST F/RISK MANAGEMENT SIGN
1	923559	PC F/787SP RISK MNGMT SPANISH

Parts Carton 923559

1	923289	RISK MNGT SIGN PRINTED SPANISH
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

LUCIA CREST PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

Lucia Crest Park

Madison, WI - Option #2-2



(800) 775-8937 Main
(608) 423-7655 Fax

260 W. Main St.
Cambridge, WI 53523

info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995

Lucia Crest Park

Madison, WI - Option #2-2



(800) 775-8937 Main
(608) 423-7655 Fax

260 W. Main St.
Cambridge, WI 53523

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PROVIDING FUN ACROSS WISCONSIN SINCE 1995



Lucia Crest Park

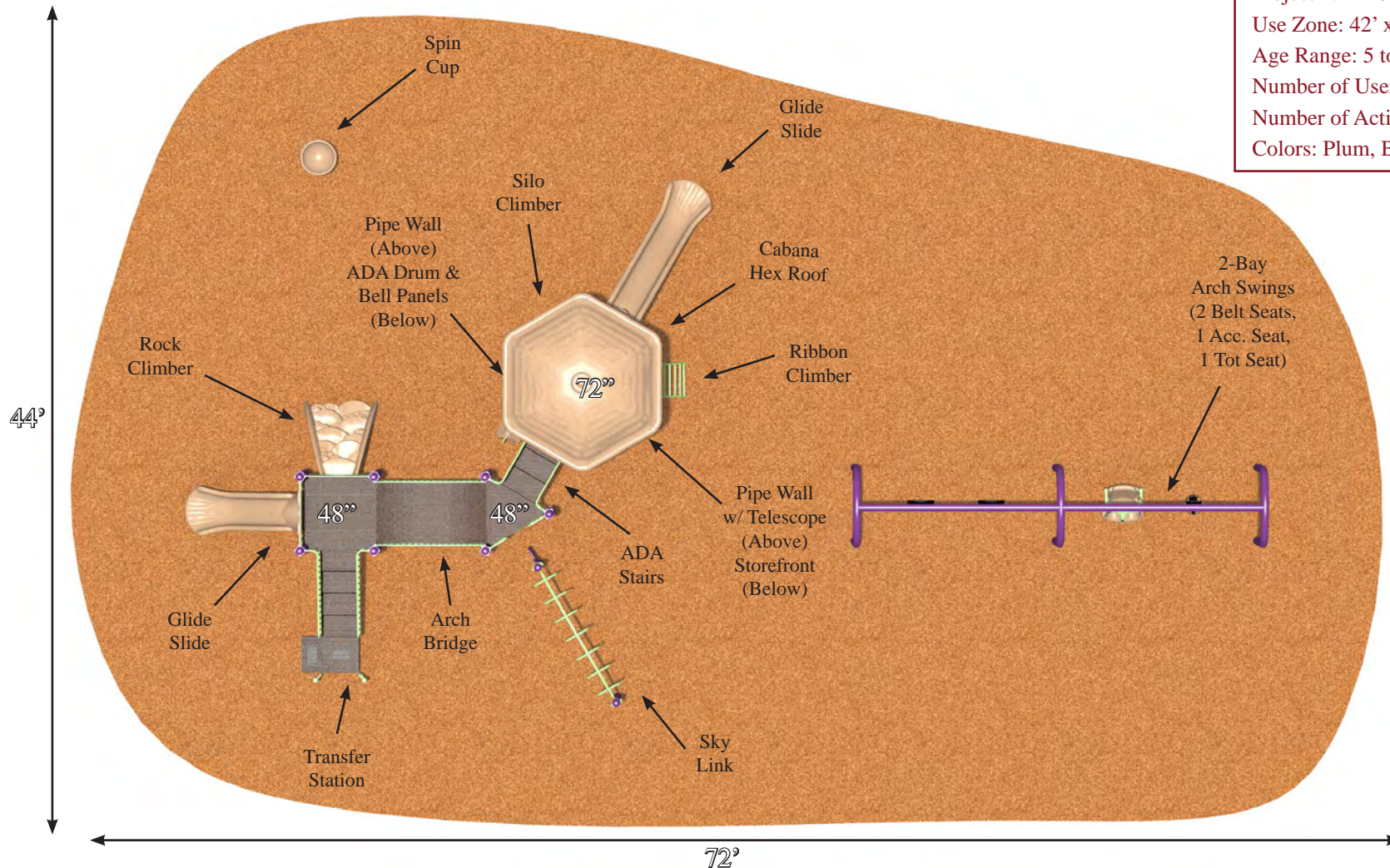
Madison, WI - Option #2-2



(800) 775-8937 Main
(608) 423-7655 Fax
260 W. Main St.
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995

Project #: LR011619-22
Use Zone: 42' x 72'
Age Range: 5 to 12
Number of Users: 46
Number of Active Play Events: 17
Colors: Plum, Brownstone, and Lime





Assembly View *(representative model)*

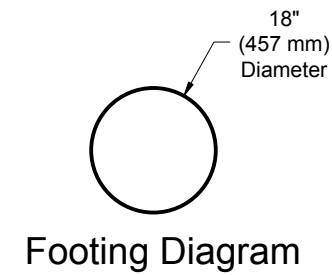
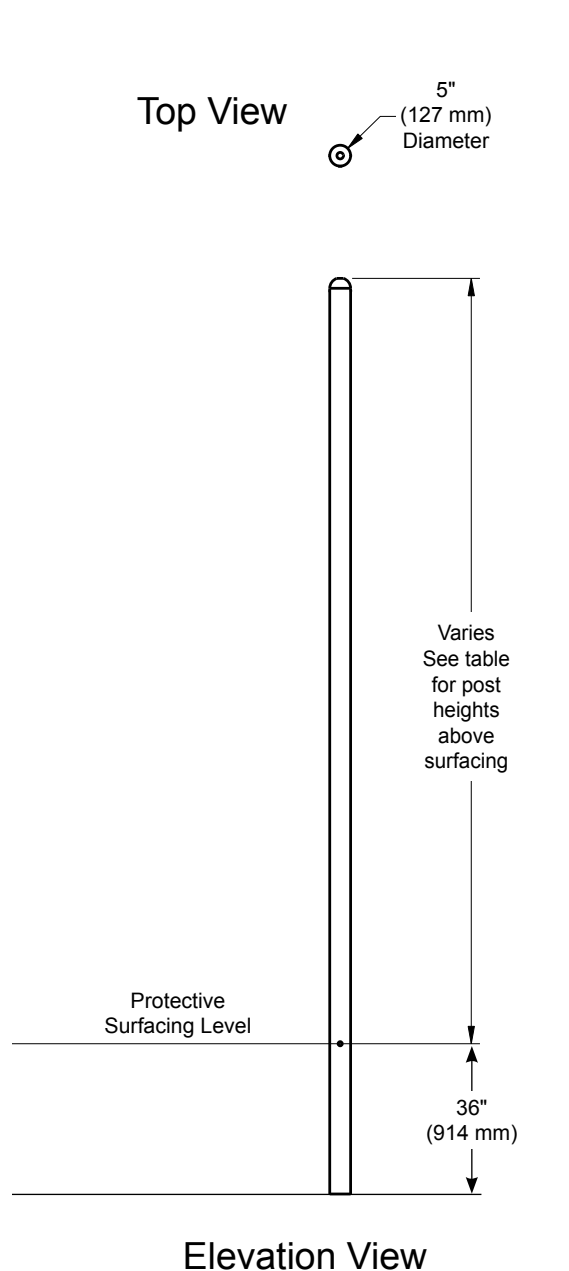
Installation Instructions

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)

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	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
ZZPM0036A	144" (3658 mm)	108" (2743 mm)
ZZPM0046A	156" (3962 mm)	120" (3048 mm)
ZZPM0056A	168" (4267 mm)	132" (3353 mm)
ZZPM0066A	180" (4623 mm)	144" (3658 mm)
ZZPM0078A	205" (5207 mm)	169" (4293 mm)
ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 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: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers 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.



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





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)

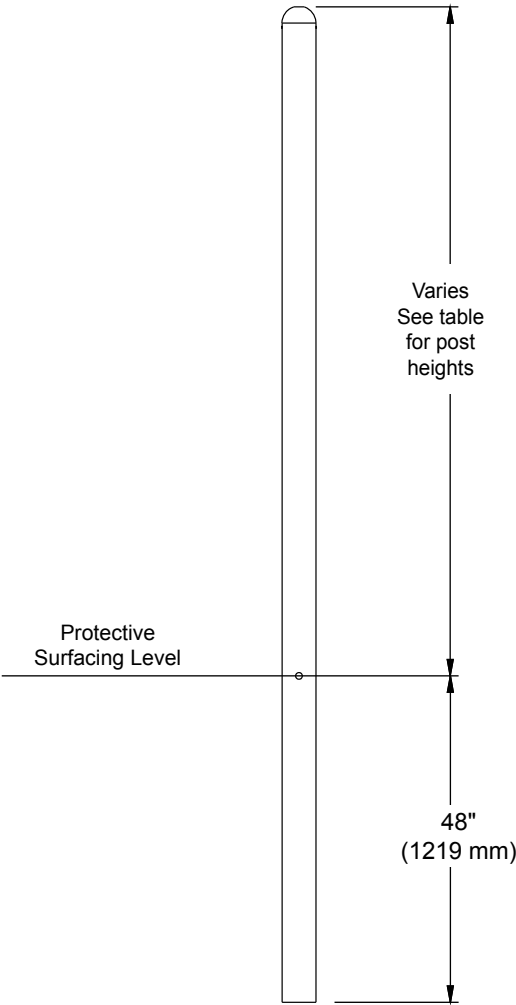
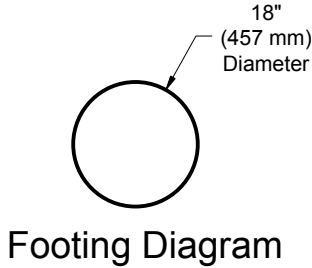
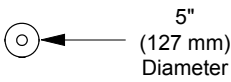
Installation Preparation

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



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0008GZ	108" (2743 mm)	60" (1524 mm)
ZZPM0036GZ	144" (3658 mm)	96" (2438 mm)
ZZPM0056GZ	168" (4267 mm)	120" (3048 mm)
ZZPM0066GZ	180" (4623 mm)	132" (3353 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: Prepare footings as shown in the **GroundZero® Support Post Footing Detail** in the *Playmakers 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.



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





Assembly View *(representative model)*

Installation Instructions

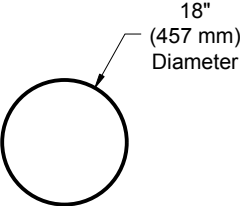
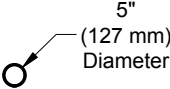
Playmakers® Models PM0017A, PM0027A, PM0037A, PM0047A, PM0057A, PM0067A, PM0079A, PM0129A, PM0136A, PM0138A, PM0267A, PM0269A
Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

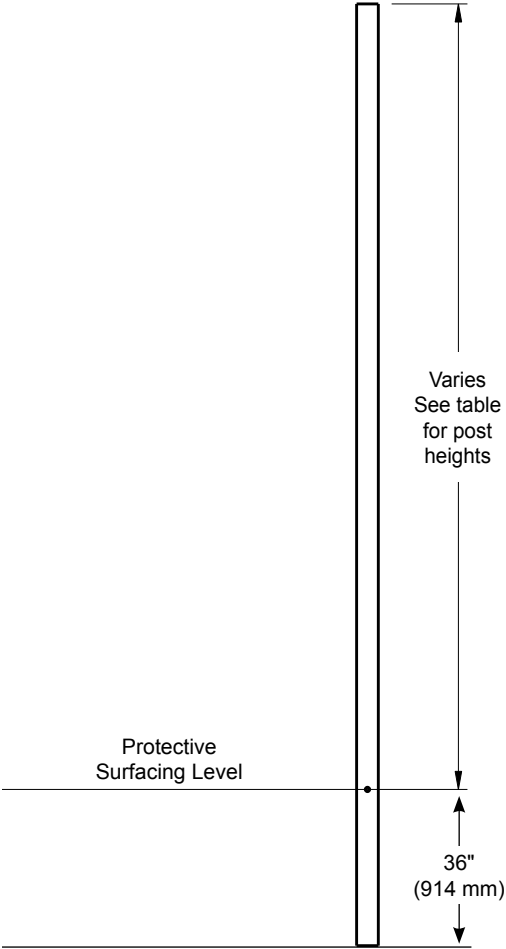
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0017A	120" (3048 mm)	84" (2134 mm)
ZZPM0027A	132" (3353 mm)	96" (2438 mm)
ZZPM0037A	144" (3658 mm)	108" (2743 mm)
ZZPM0047A	156" (3962 mm)	120" (3048 mm)
ZZPM0057A	168" (4267 mm)	132" (3353 mm)
ZZPM0067A	180" (4572 mm)	144" (3658 mm)
ZZPM0079A	205" (5207 mm)	169" (4293 mm)
ZZPM0129A	192" (4877 mm)	156" (3962 mm)
ZZPM0136A	96" (2438 mm)	60" (1524 mm)
ZZPM0138A	108" (2743 mm)	72" (1829 mm)
ZZPM0267A	217" (5512 mm)	181" (4597 mm)
ZZPM0269A	229" (5817 mm)	193" (4902 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: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers 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.



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



Installation Instructions

Playmakers® PM0616 and PM0629

Square and Long Coated Perforated Decks



ZZPM0616
Square Deck










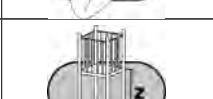
ZZPM0629
Long Deck

Assembly View

Installation Preparation

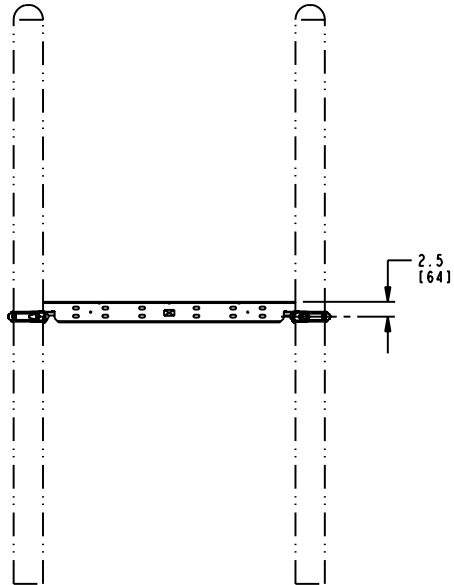
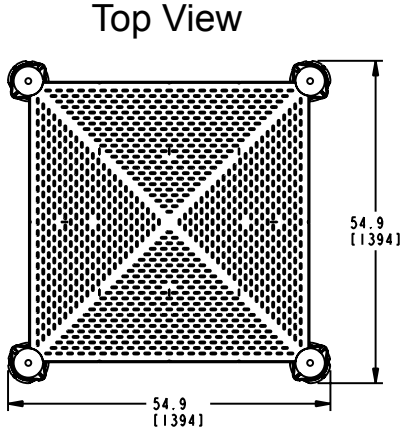
Recommended Crew (PM0616):..... Two (2) adults
 Recommended Crew (PM0629):..... Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

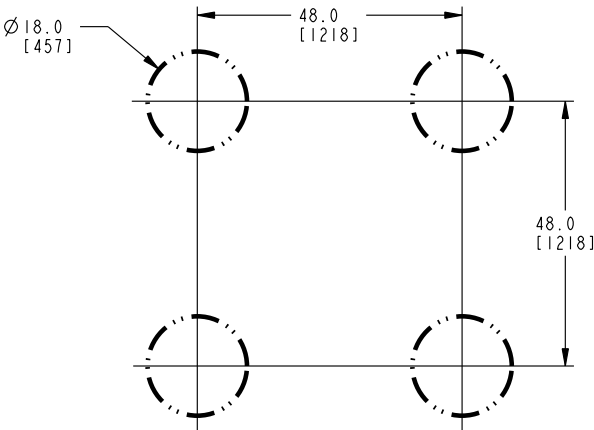
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

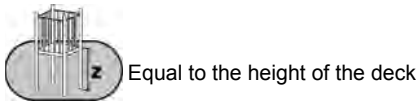
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

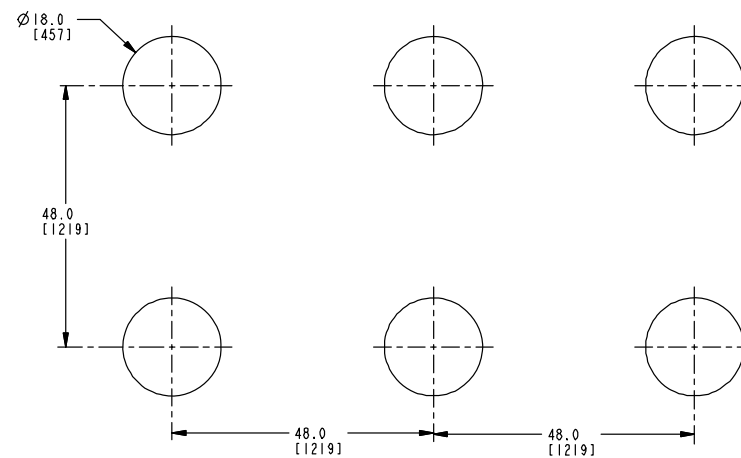
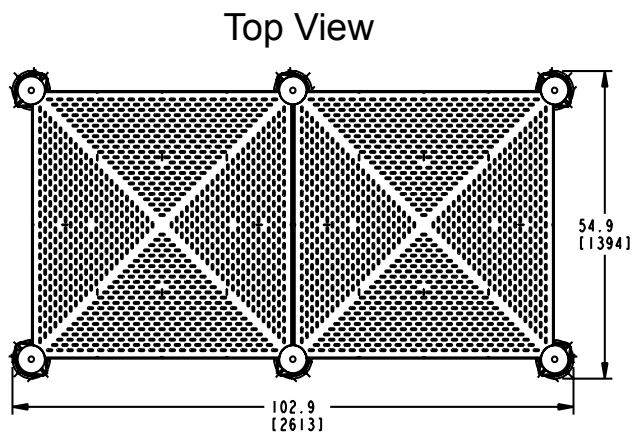


Footing Diagram

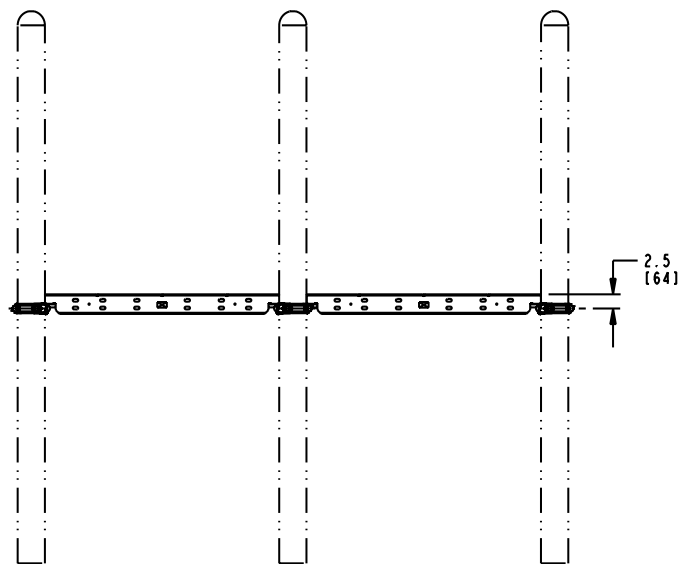


Installation Instructions

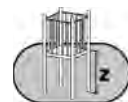
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
Model PM0629

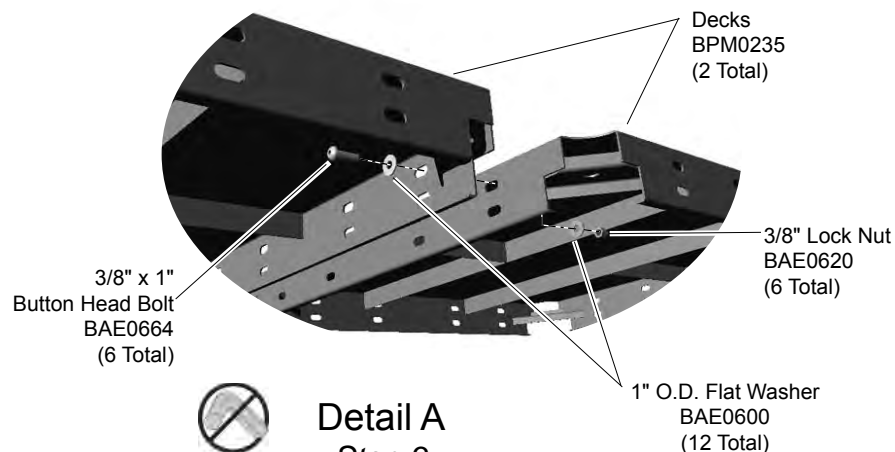


Equal to the height of the deck

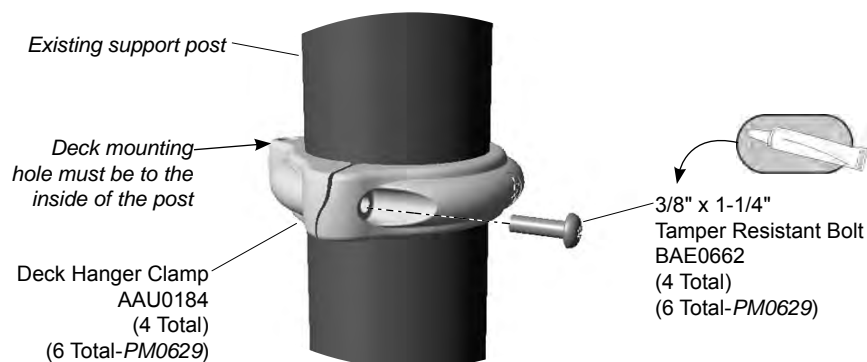


Installation Instructions

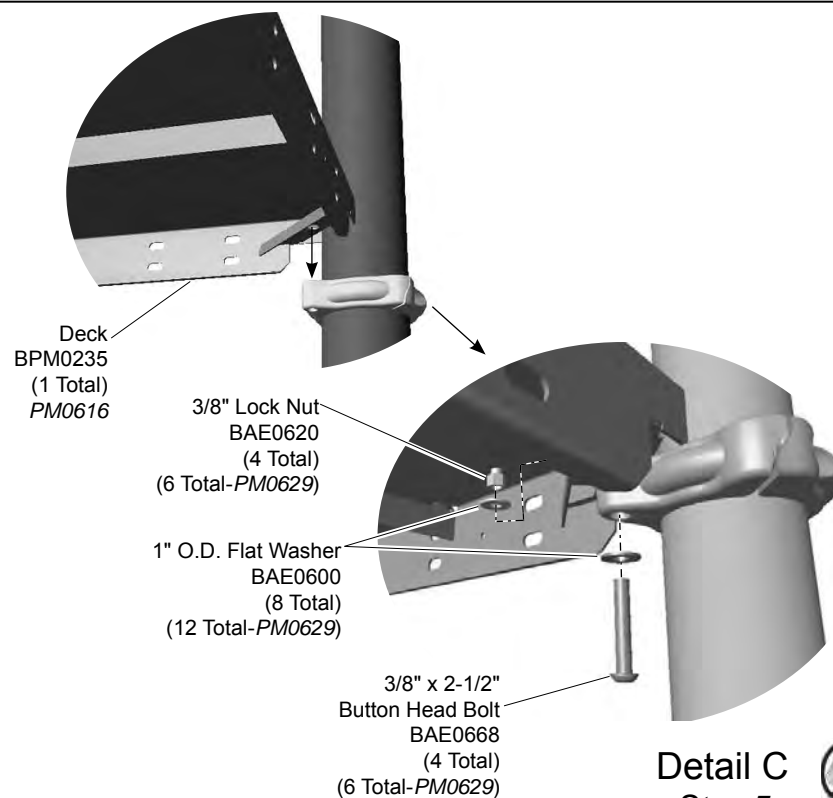
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



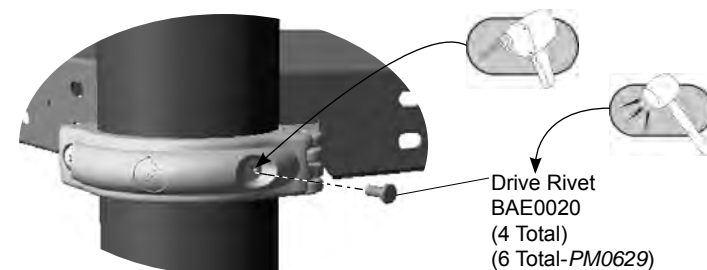
Detail A
Step 3
(Model PM0629 Only)
Attach the two decks together.



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




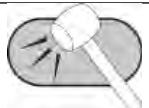



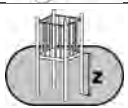


ZZPM0639
45 Degree Tri-Deck

Assembly View

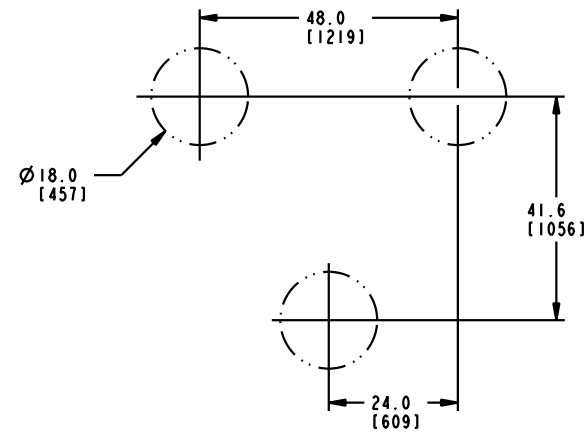
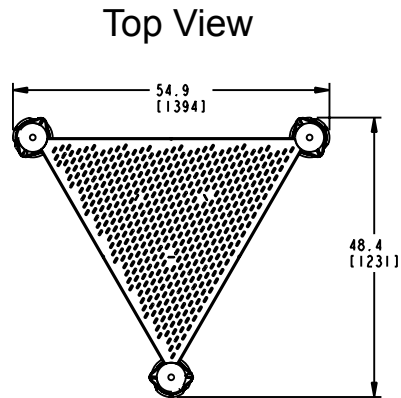
Installation Preparation

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

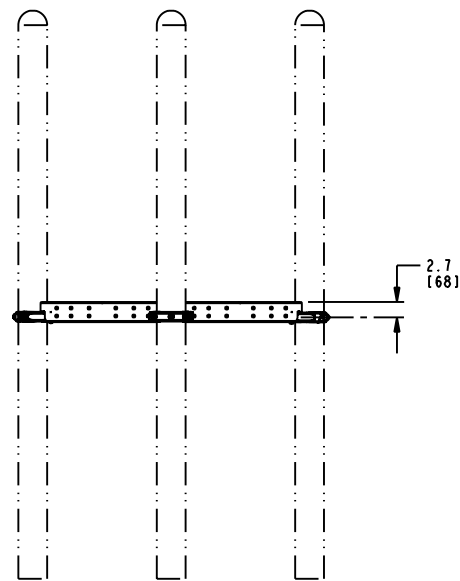
ICON KEY	
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	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

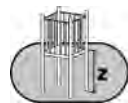
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
Model PM0617

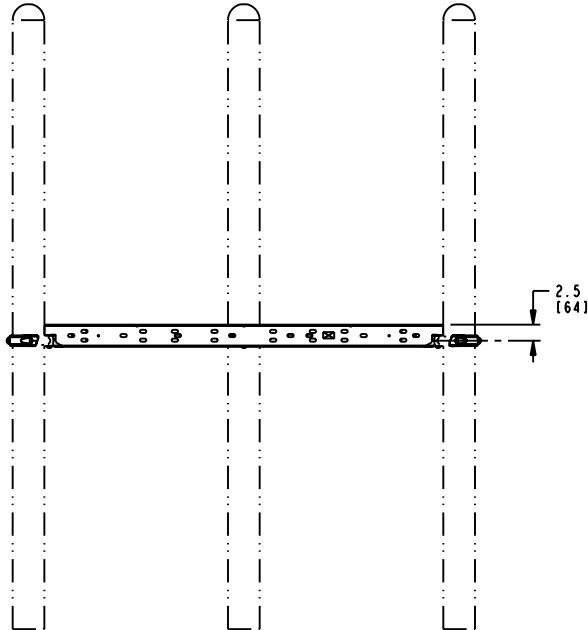
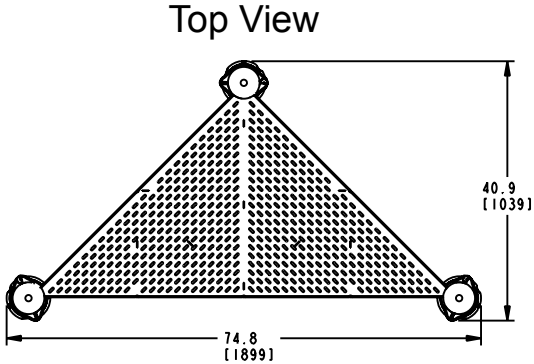


Equal to the height of the deck

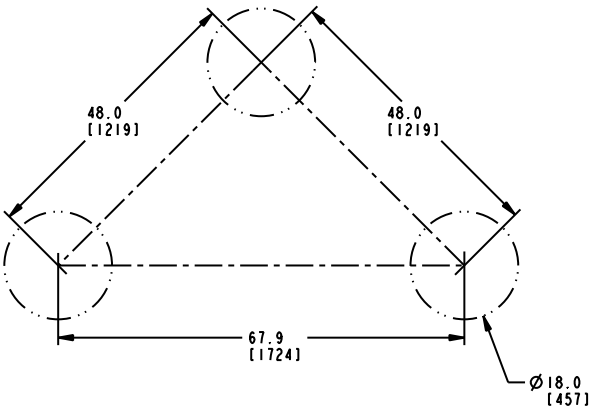


Installation Instructions

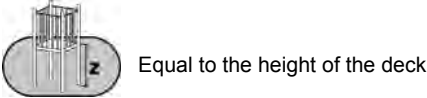
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0639

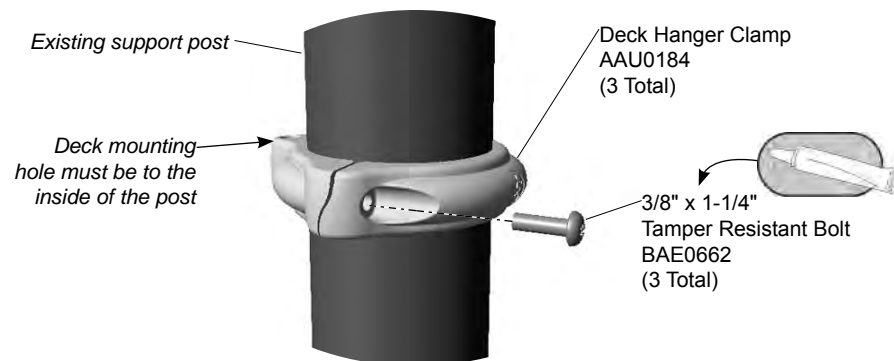


Footing Diagram



Installation Instructions

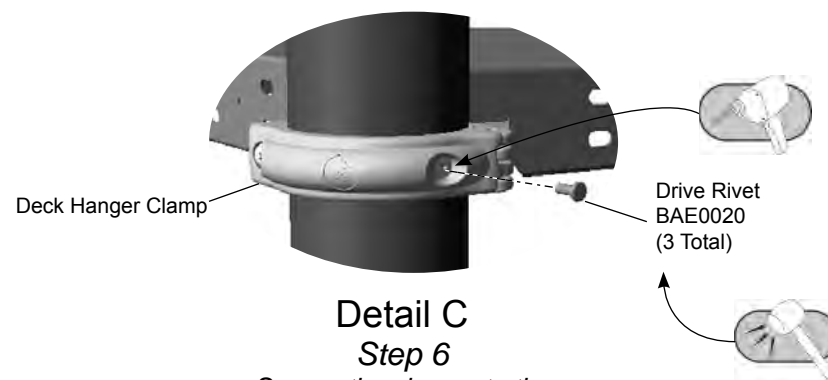
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A

Step 3

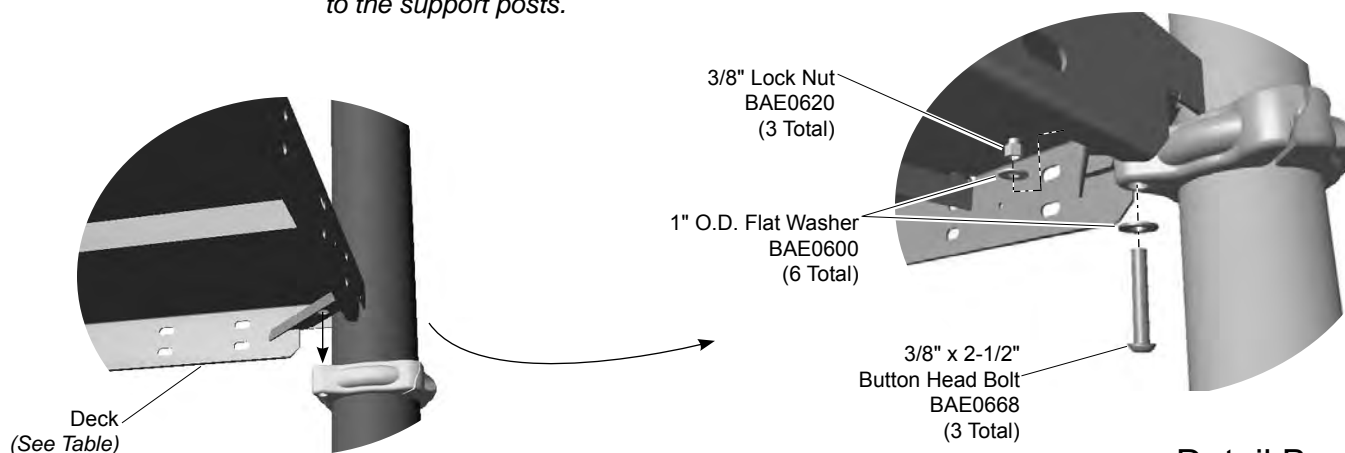
Attach the deck hanger clamps to the support posts.



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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Installation Instructions

Playmakers® PM0618 and PM0619

Half Hex and Hex Coated, Perforated Deck



ZZPM0618
Half Hex Deck










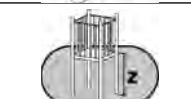
ZZPM0619
Hex Deck

Assembly View

Installation Preparation

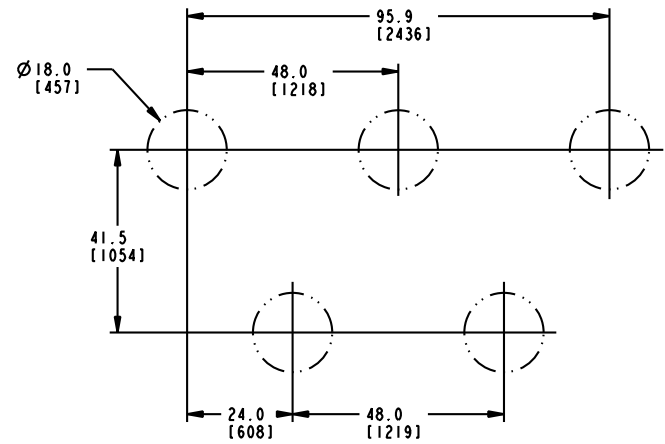
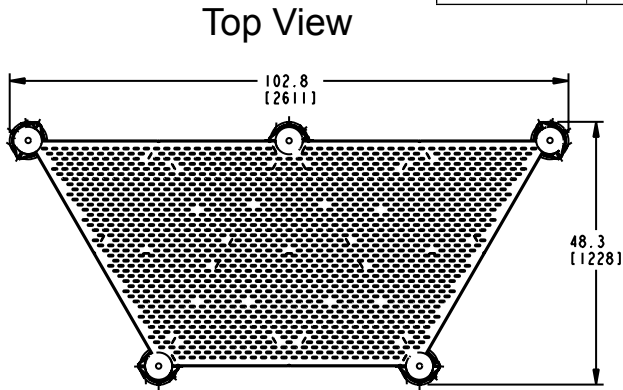
Recommended Crew: Four (4) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

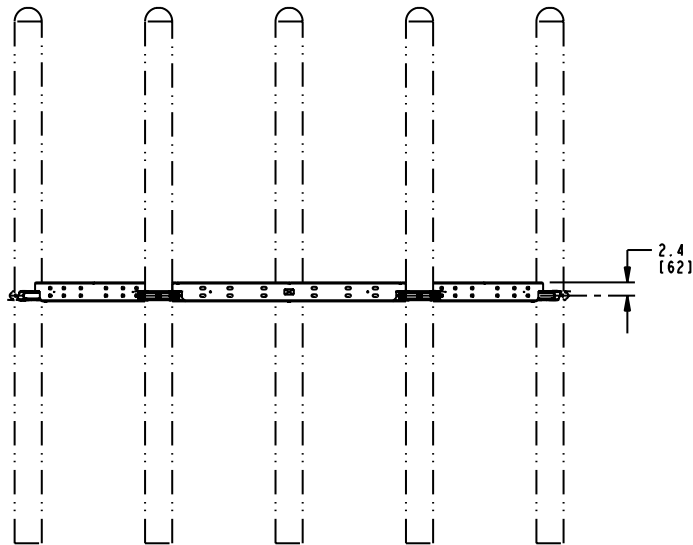
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

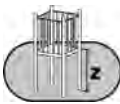
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
PM0618



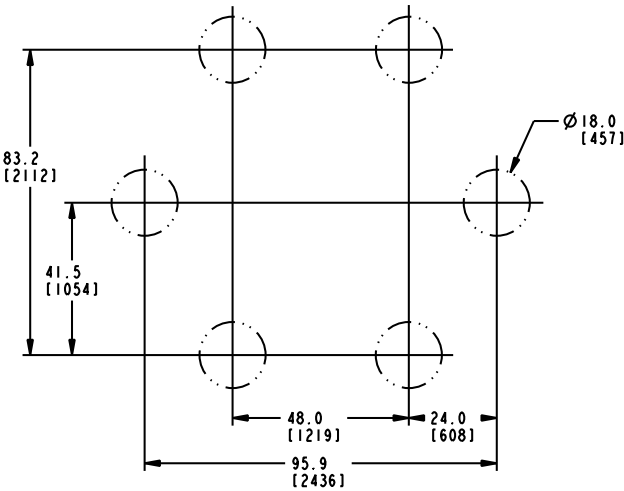
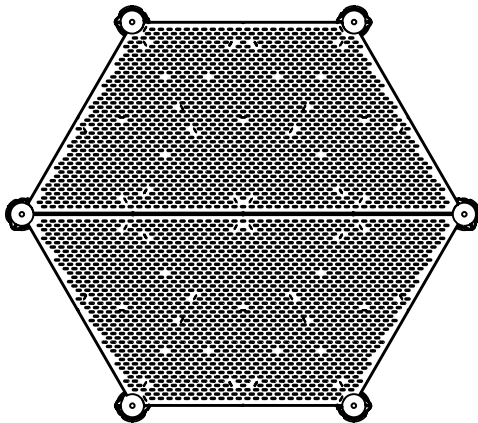
Equal to the height of the deck



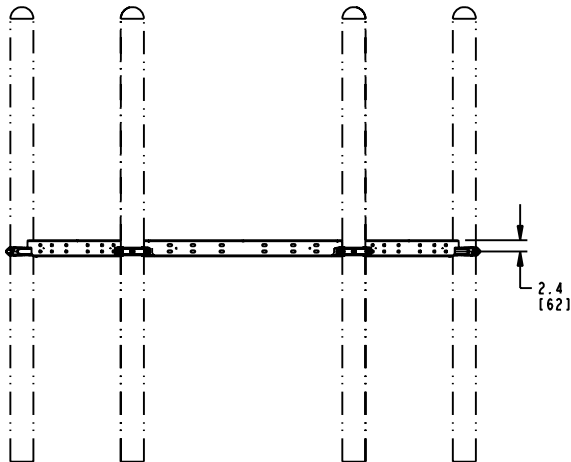
Installation Instructions

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

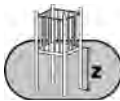
Top View



Footing Diagram



Elevation View
PM0619

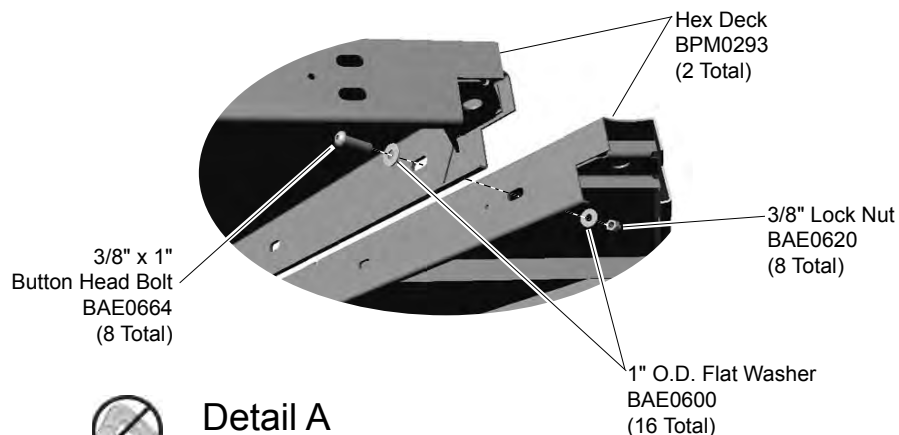


Equal to the height of the deck



Installation Instructions

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

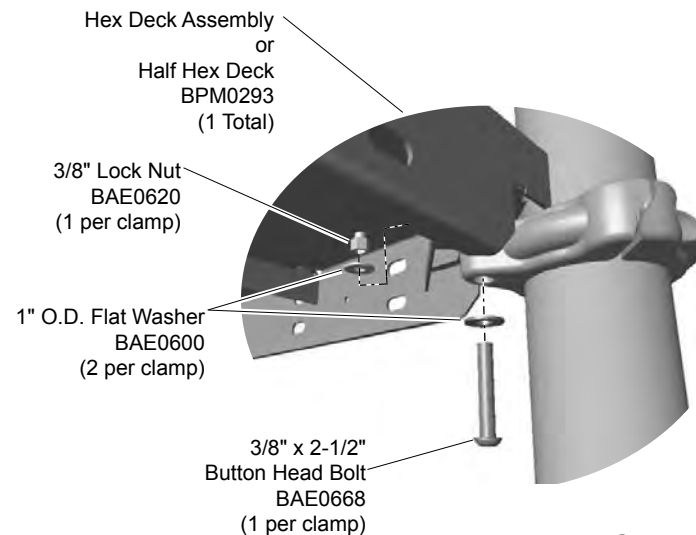


Detail A

Step 3

(Model PM0619 Only)

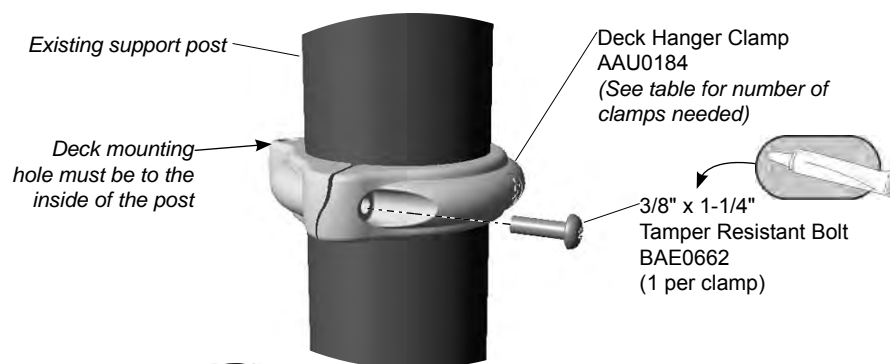
Attach the hex decks together.



Detail C

Step 5

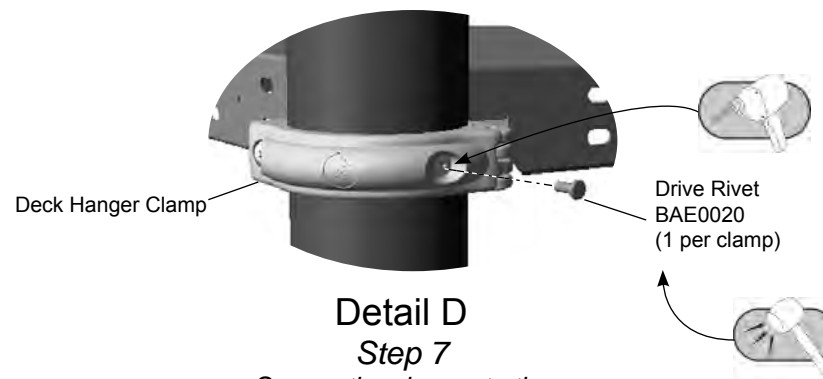
Attach the deck to the deck hanger clamps.



Detail B

Step 4

Attach the deck hanger clamps to the support posts.



Detail D

Step 7

Secure the clamps to the support posts.

Model	Deck Shape	Deck Part Number	Number of Clamps
ZZPM0618	Half Hex Deck	BPM0292	5
ZZPM0619	Hex Deck	BPM0293	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.

Note: It is recommended that (4-5) four to five adults lift the assembled deck into place.

Attach the decks together.

Step 3: Attach the decks together (*Model PM6019 only*). See **Detail A**. Orient the long side of the decks flush together and attach as shown.

Step 4: Attach the clamps to the support posts. See **Detail B**. 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 5: 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 6: 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 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.

PM0618 - HALF HEX COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER 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
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	5
BPM0292	PLATFORM - PM HALF HEX PERF	1

PM0619 - HEX 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	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
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0293	PLATFORM - PM HEX PERF	2



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Assembly View (representative model)

Installation Instructions









Playmakers® Models PM2027 and PM2027S

48 in. (1219 mm) Transfer Station

In-Ground and Surface Mount

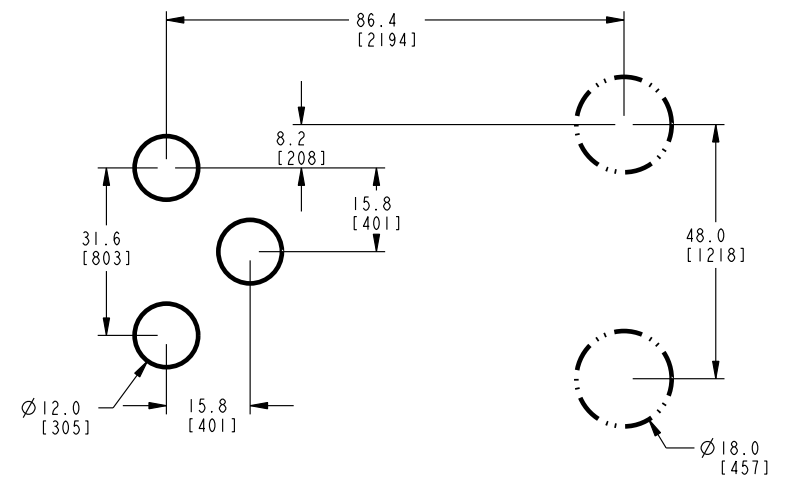
Installation Preparation

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

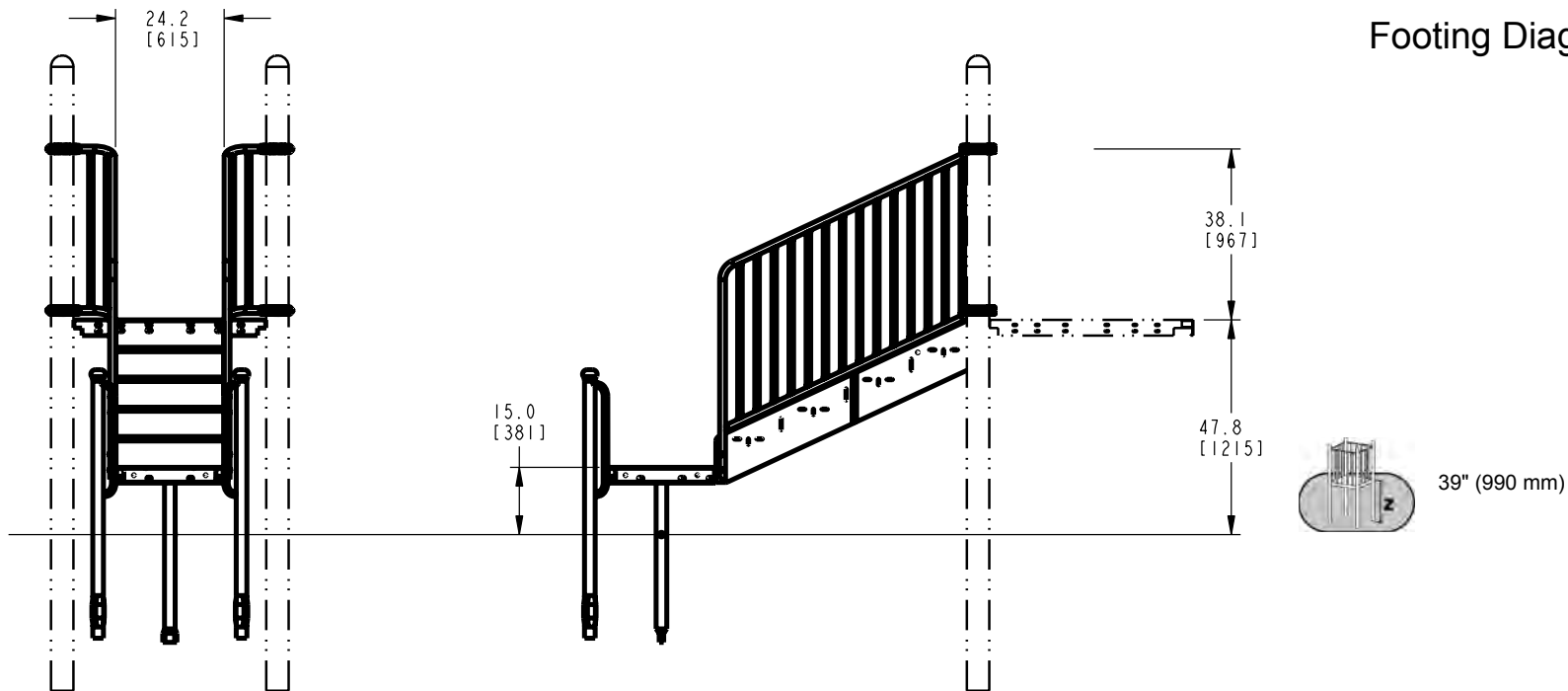
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

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



Footing Diagram



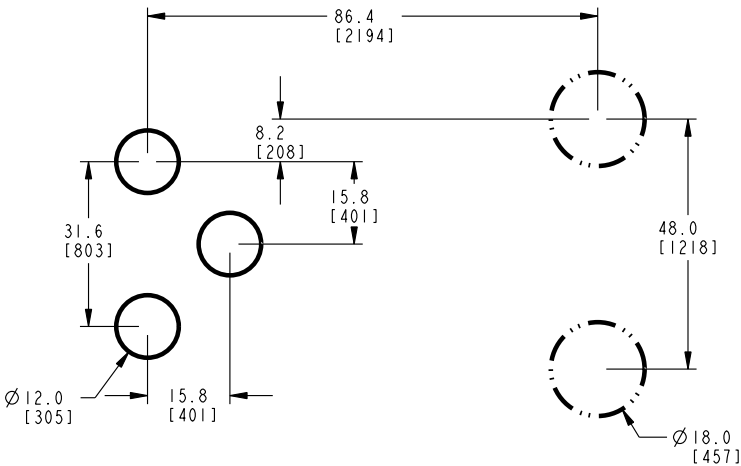
Elevation Views

PM2027

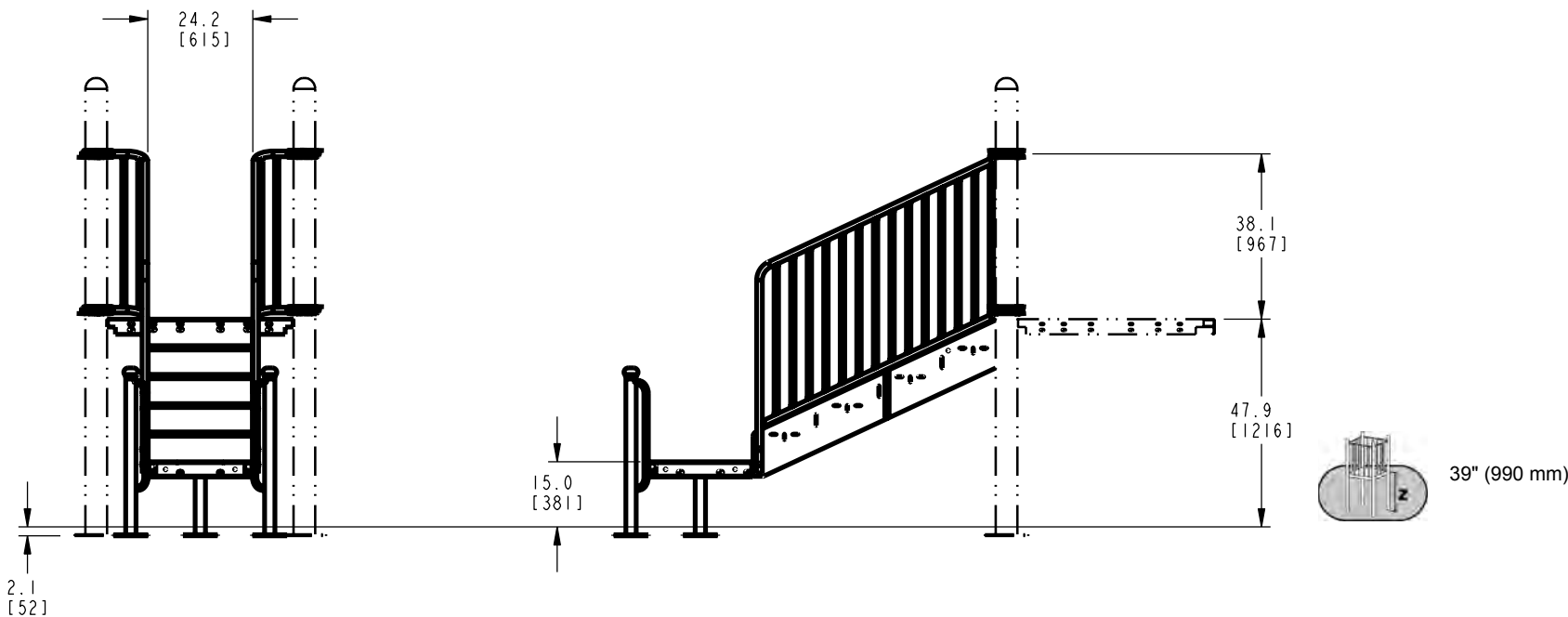


Installation Instructions

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



Footing Diagram

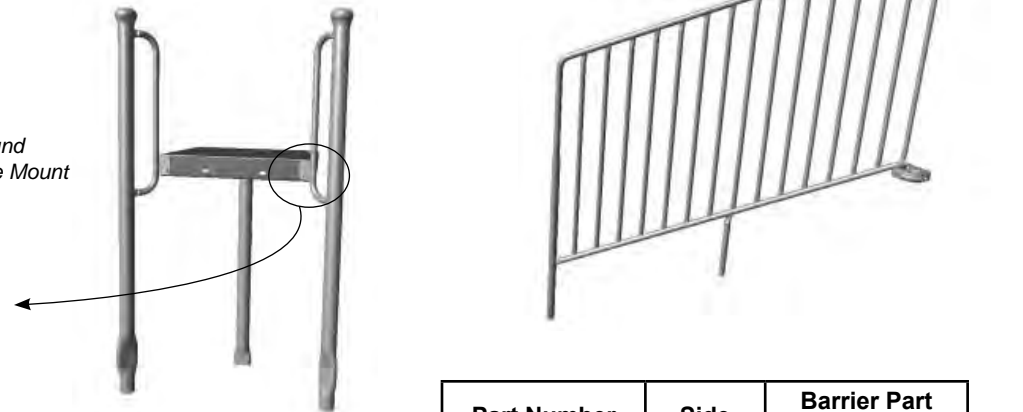
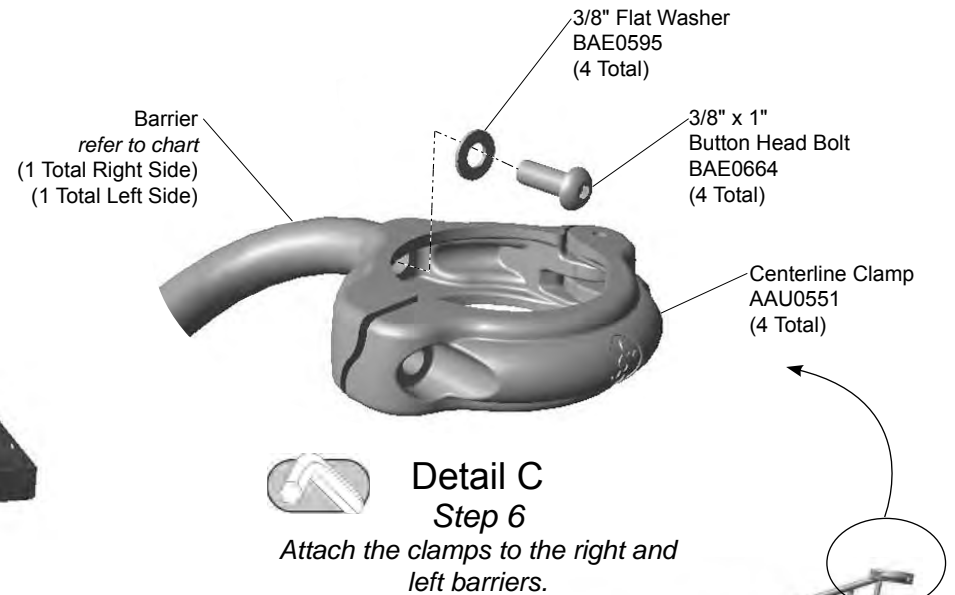
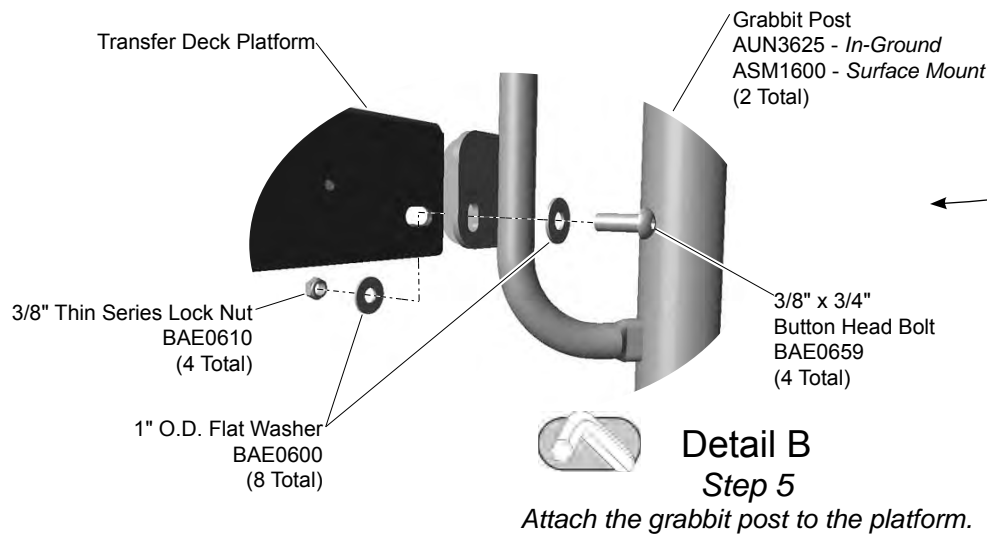
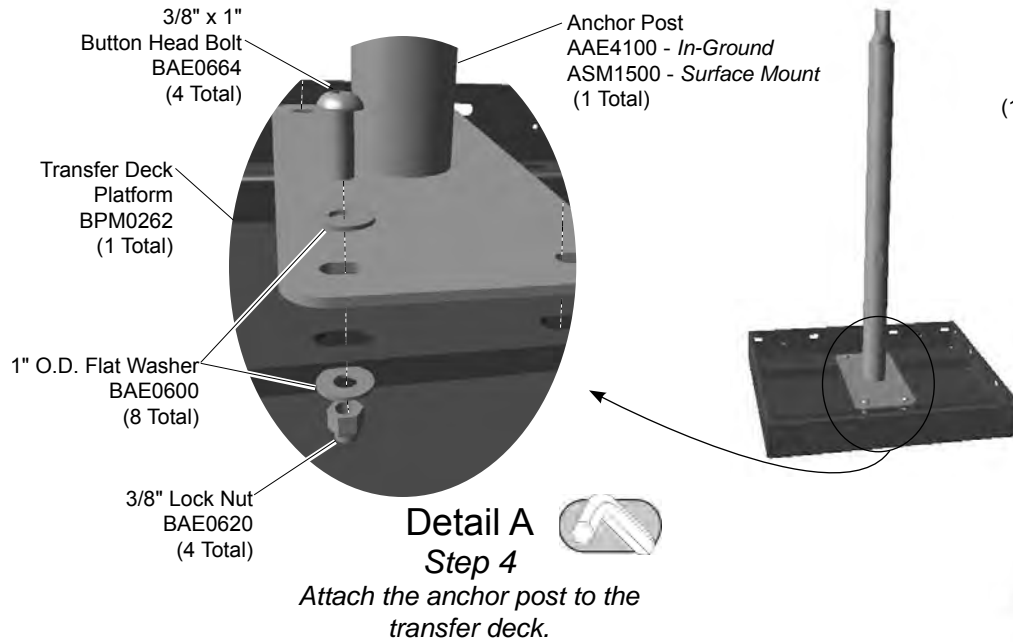


Elevation Views
PM2027S



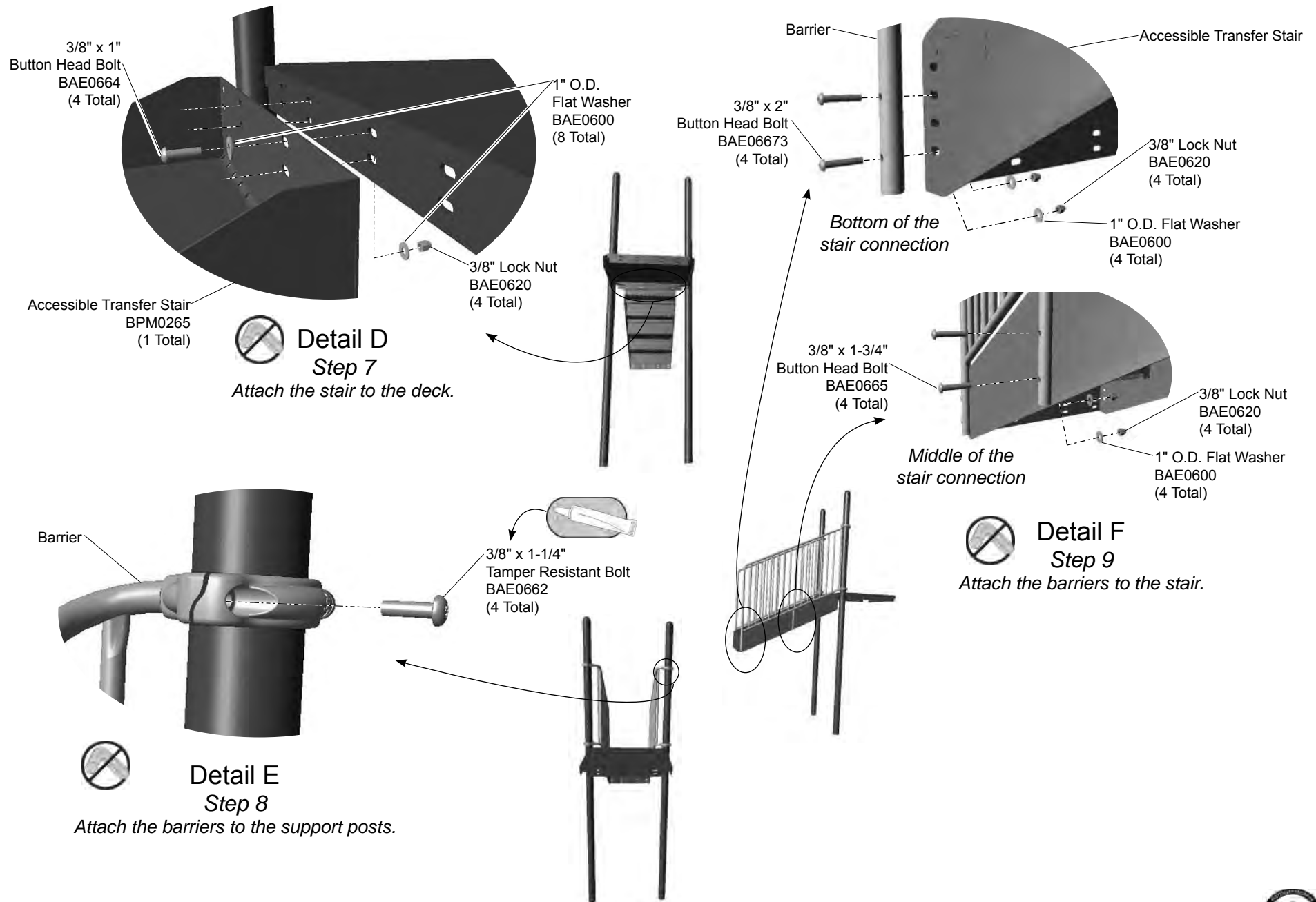
Installation Instructions

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

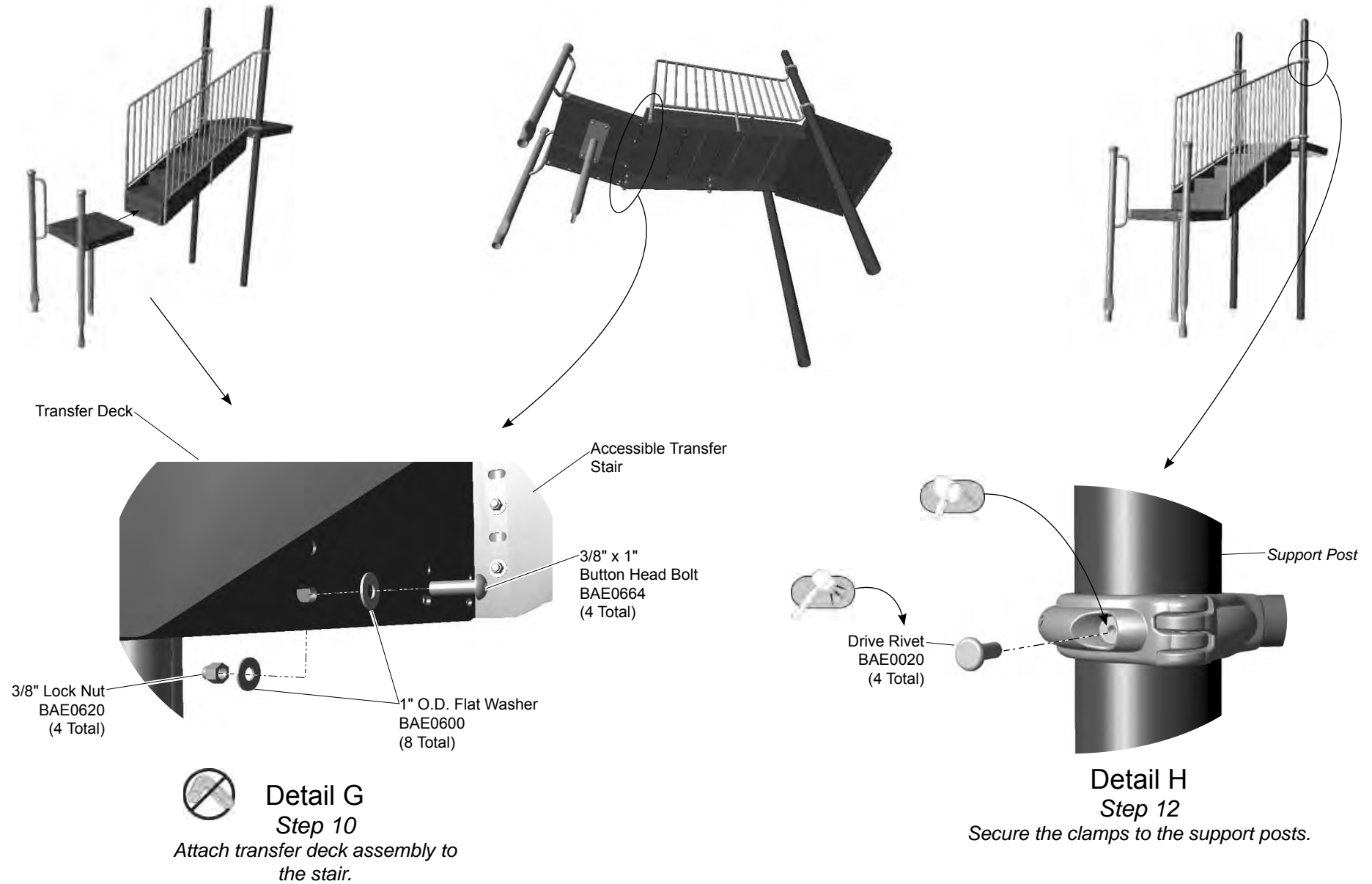


Part Number	Side	Barrier Part Number
ZZPM2027	Left	AEN0165
ZZPM2027	Right	AEN0164
ZZPM2027S	Left	AEN0165
ZZPM2027S	Right	AEN0164

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 barriers.

Step 6: Attach the clamps to barriers. See **Detail C**. Position the end of each barrier top and bottom rail against the neck of a 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 barriers to the support posts.

Step 8: Attach barriers to the support posts. See **Detail E** and Elevation View. Lift each barrier 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 barriers to the stair.

The barriers 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 barriers should be mounted at the same height.

Step 9: Attach the barriers to the bottom and middle of the stair. See **Detail F**. Align the barrier 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**. Place the transfer deck assembly into, or onto, 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.



ZZPM2027 - 48 in. (1219 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
AUN3625	POST - 59.81" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
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 DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16 X 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACSBLE COATED TRANSFER	1

ZZPM2027S - 48 in. (1219 mm) TRANSFER STATION SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38.69" GRABBIT SURFACE MOUNT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
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 DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACCESSIBLE COATED TRANSFER	1



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Assembly View







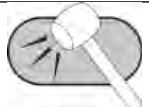
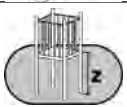
Installation Instructions

Universal Model UN2019

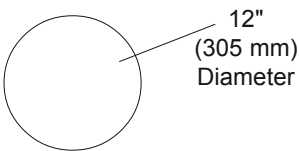
Platform Approach Step

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 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

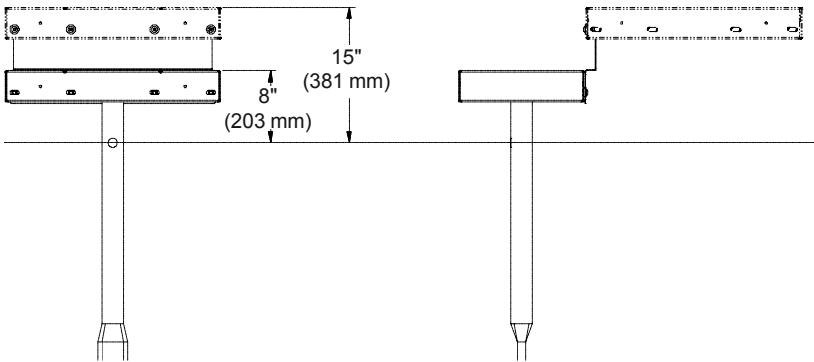
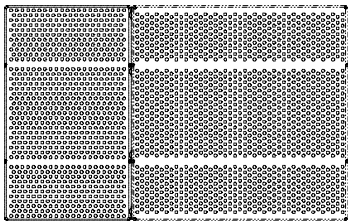
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions

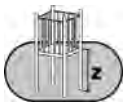


Footing Diagram

Top View



Elevation Views

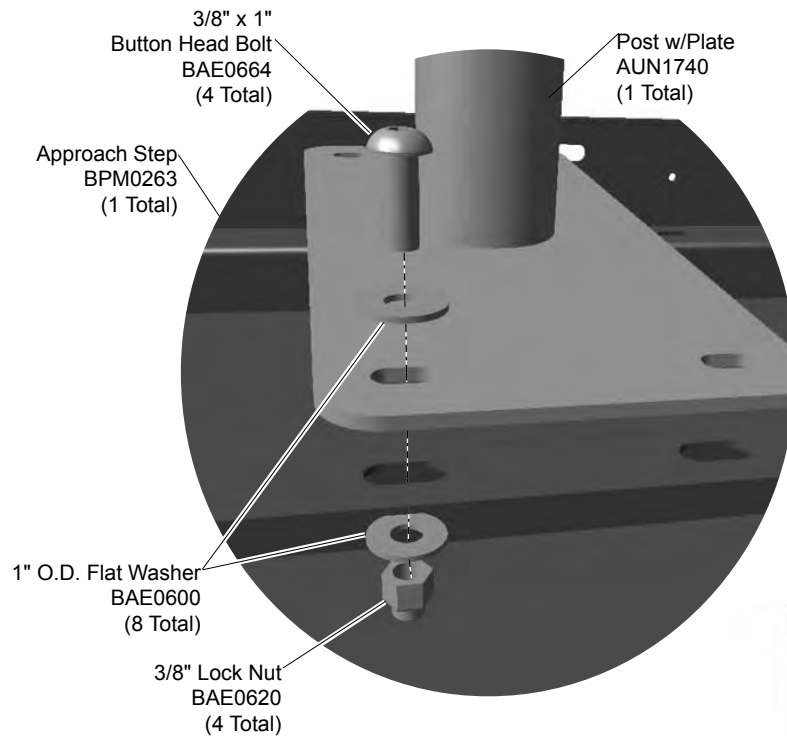


15" (381 mm)



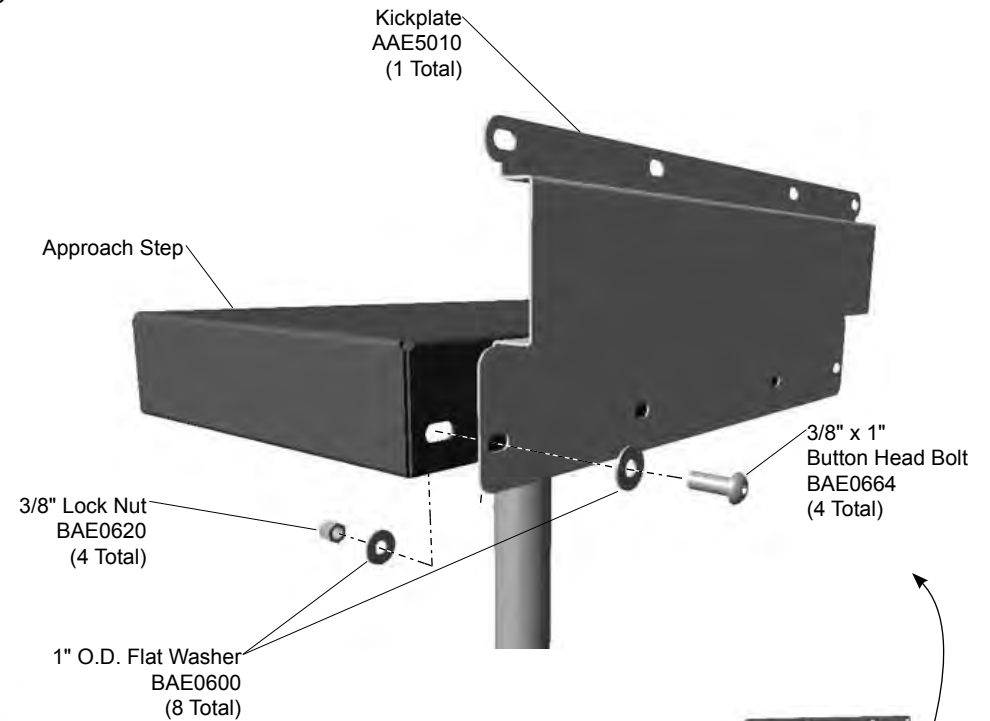
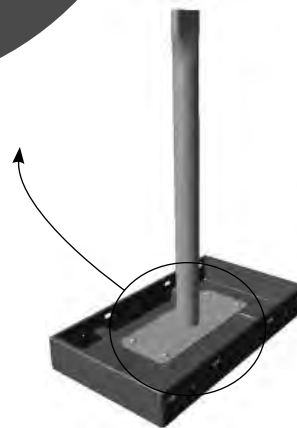
Installation Instructions

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.

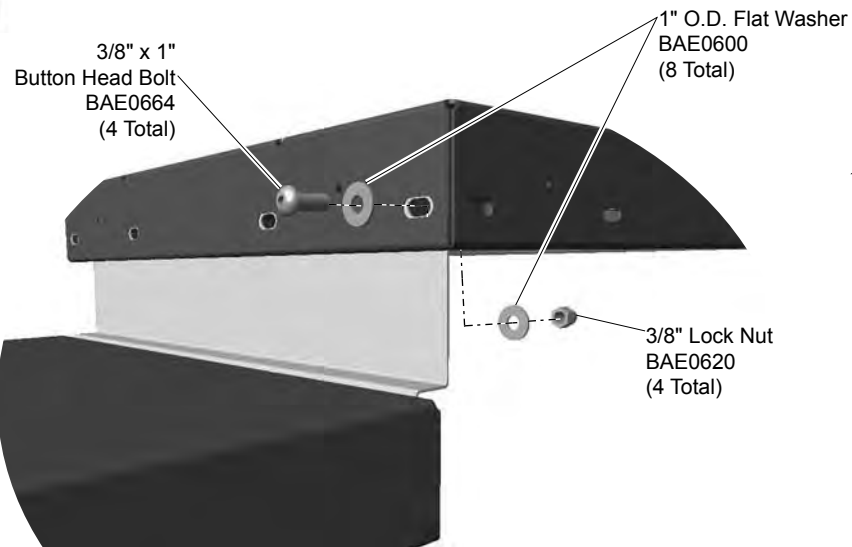
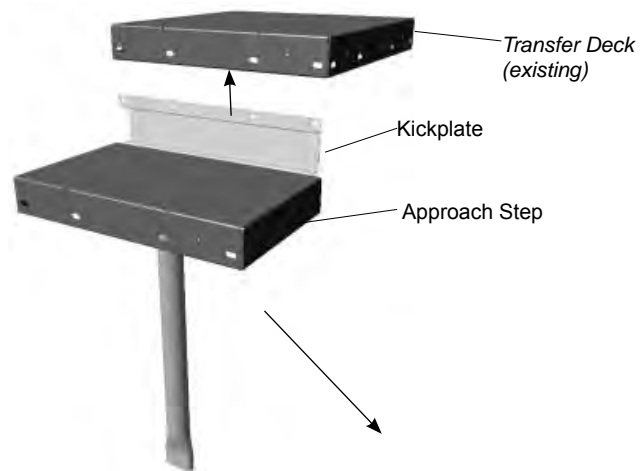


Detail B
Step 5

Attach the kickplate to the approach step.



Installation Instructions

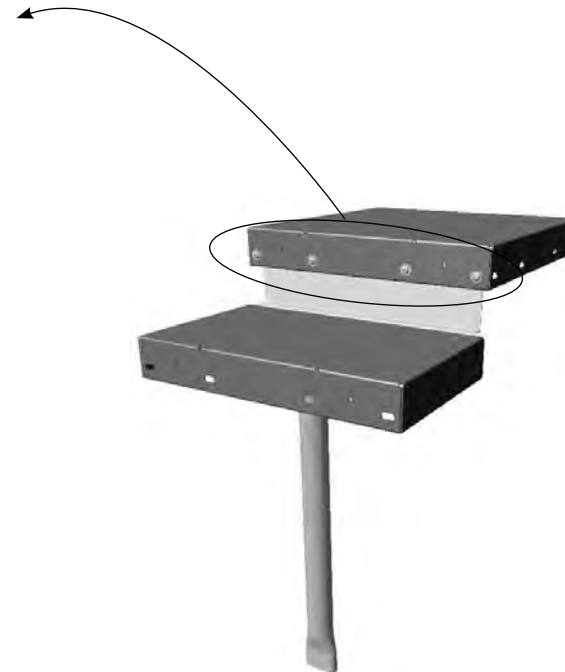


Detail C Step 6

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
PM3128	24-30" (610-762 mm)
PM3127	36" (915 mm)
PM3126	48" (1220 mm)
PM2658	60" (1525 mm)
PM2696	72" (1830 mm)

Installation Instructions







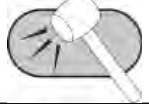
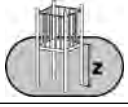
Playmakers®

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

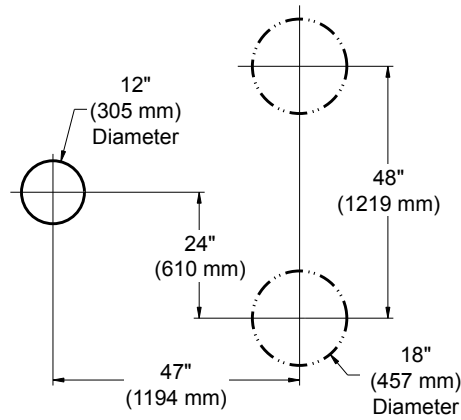
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
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

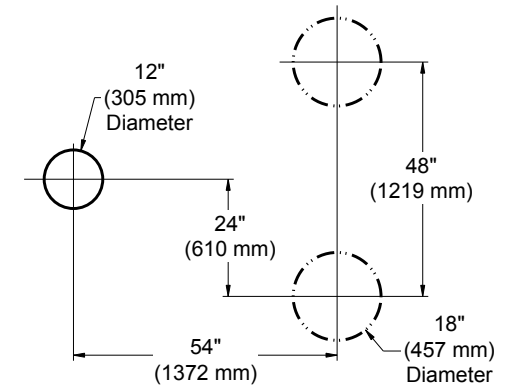
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

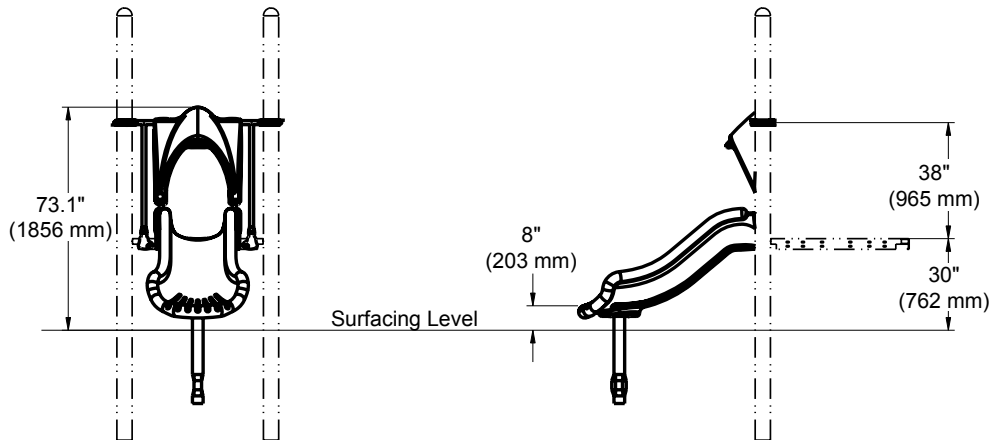
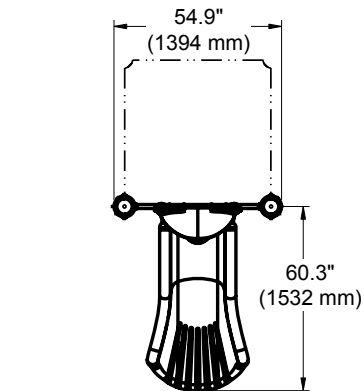


Footing Diagram

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

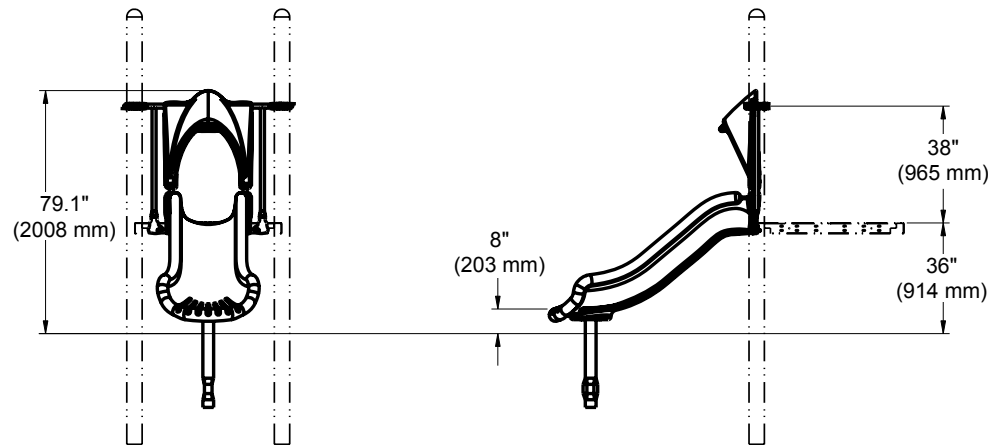
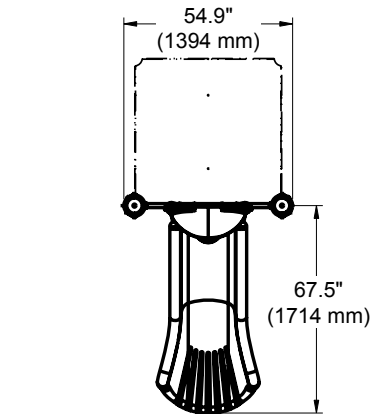


Footing Diagram



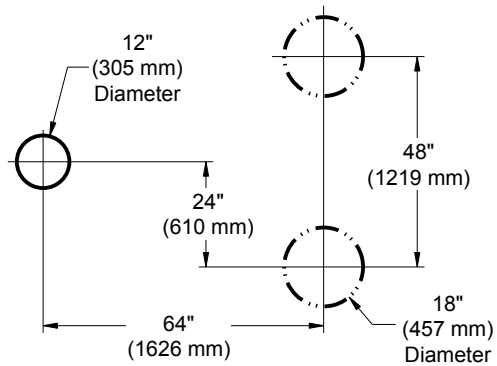
Elevation View PM3128 - 30" Glide Slide

(24" slide: exit will be 2" (50mm) above the surfacing level)

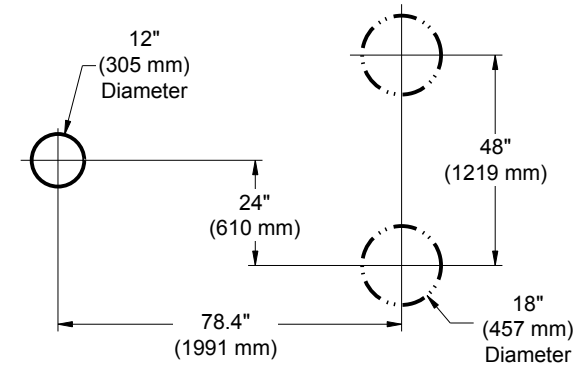


Elevation View PM3127 - 36" Glide Slide

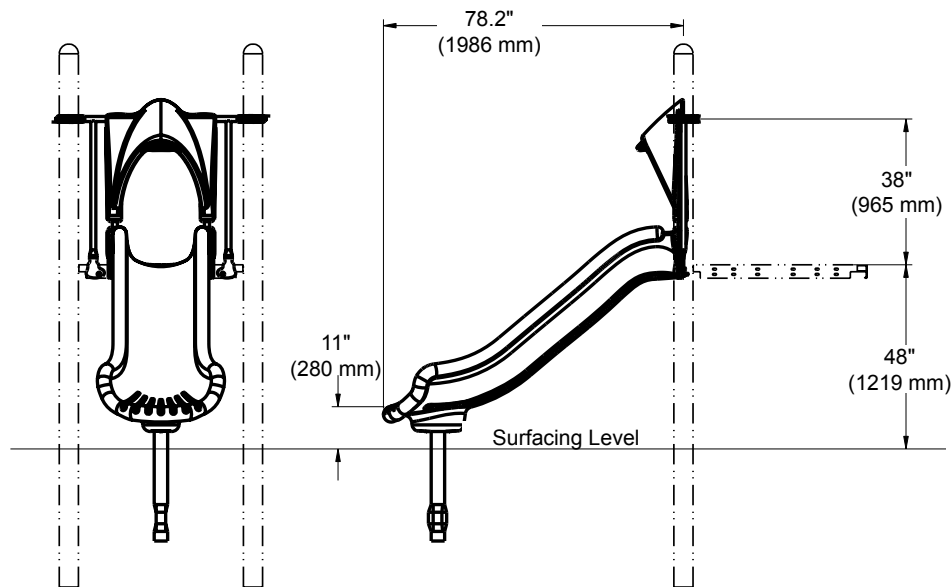
Installation Instructions



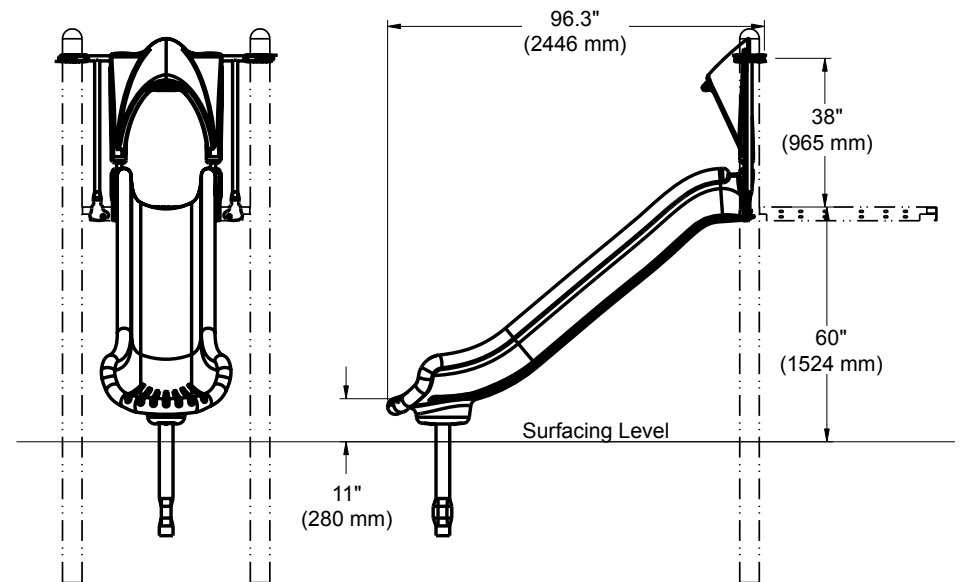
Footing Diagram



Footing Diagram

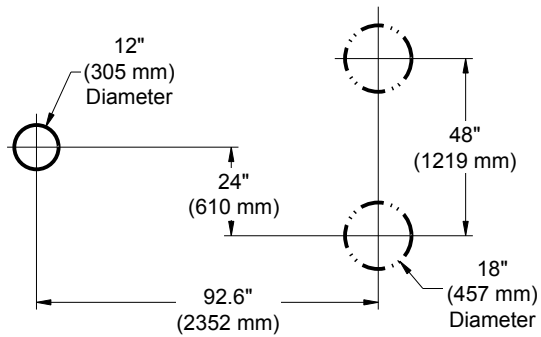


Elevation View PM3126 - 48" Glide Slide

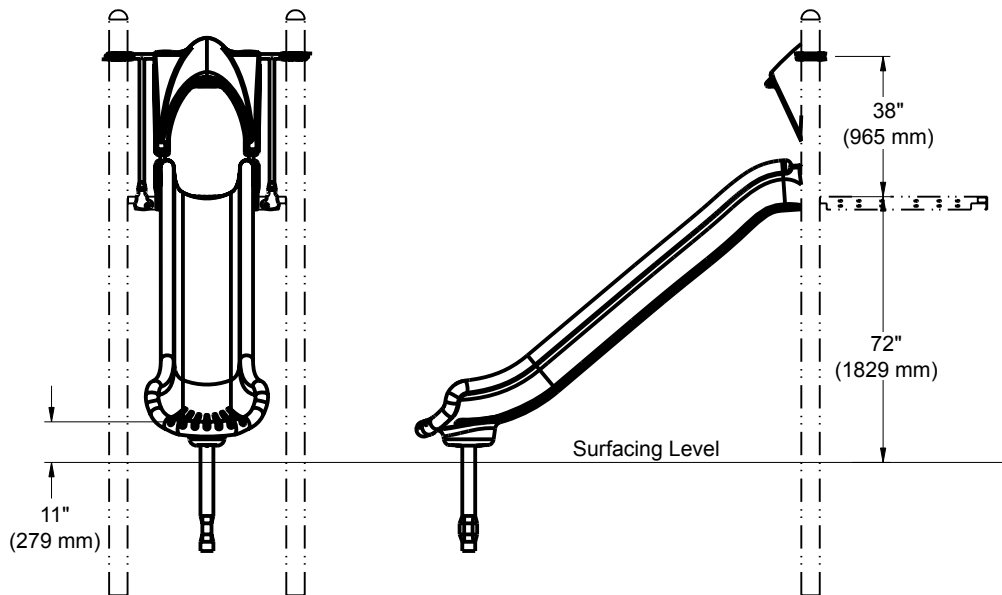


Elevation View PM2658 - 60" Glide Slide

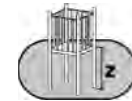
Installation Instructions



Footings Diagram



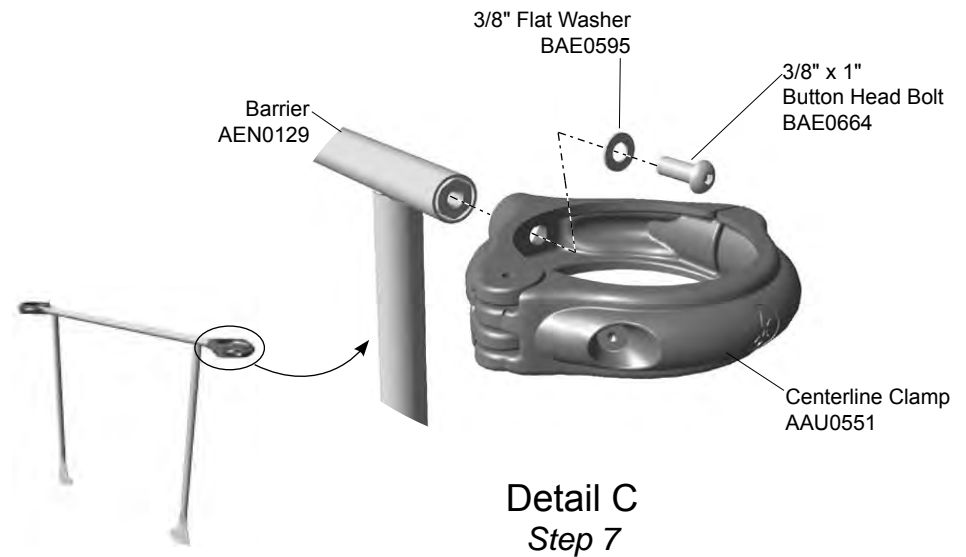
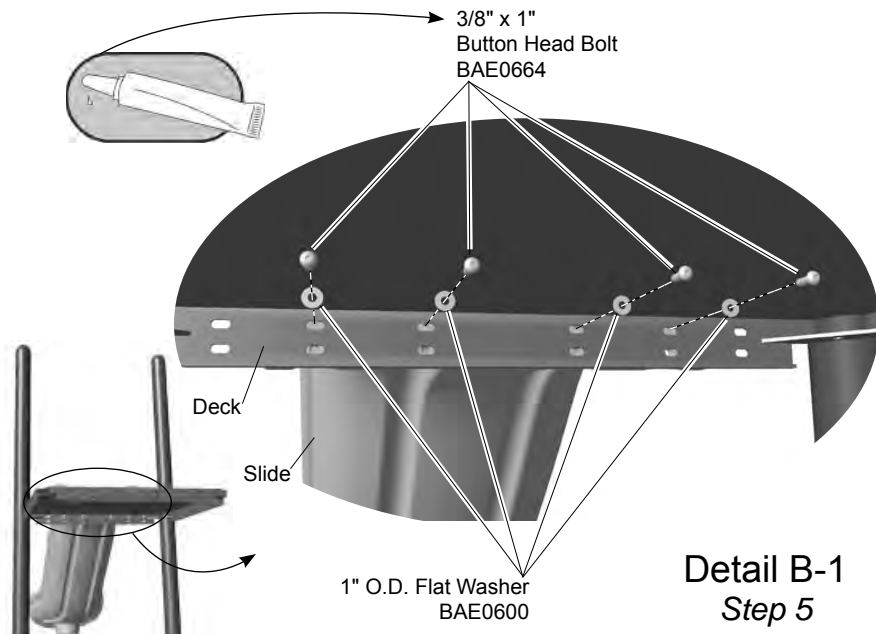
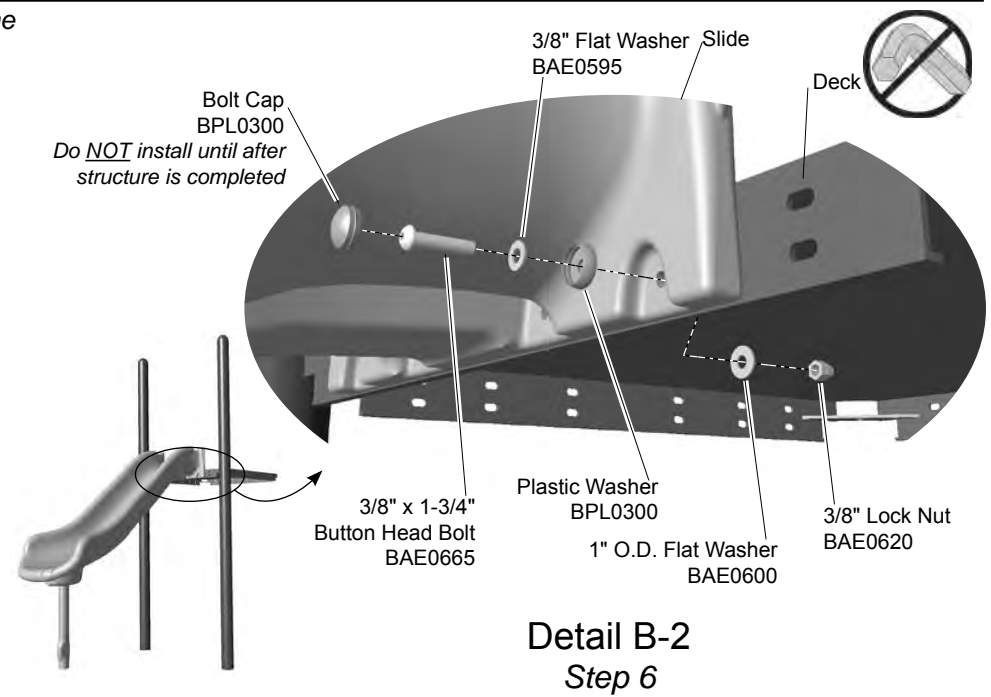
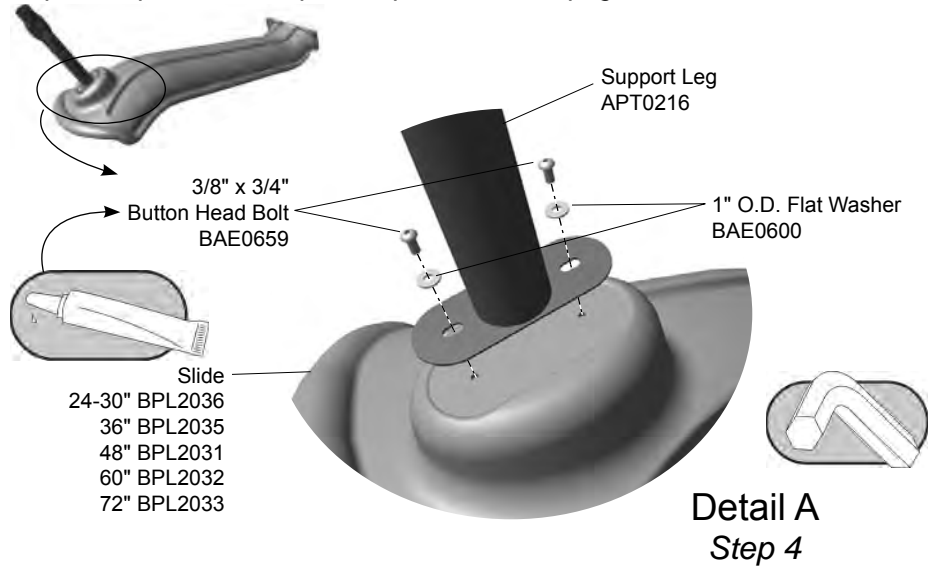
Elevation View PM2696 - 72" Glide Slide



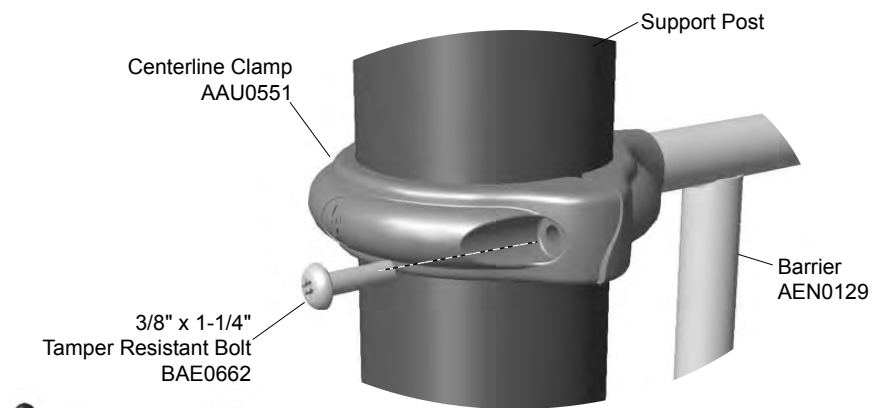
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

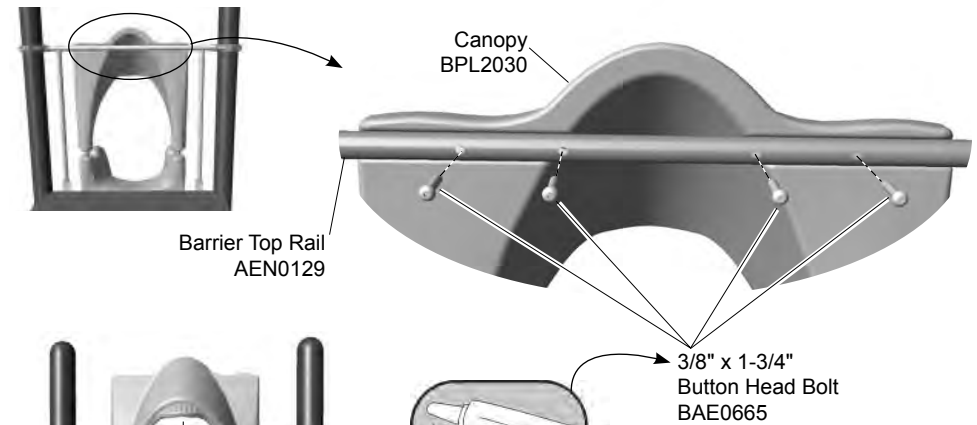
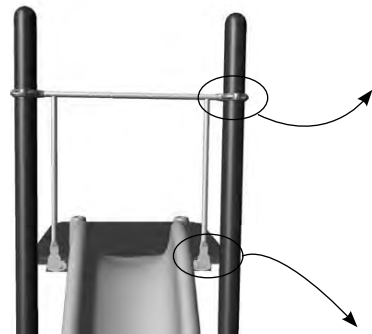
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



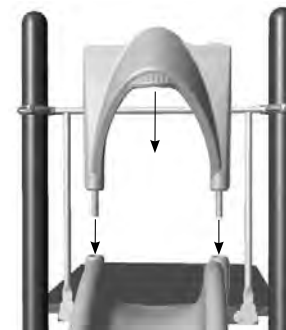
Installation Instructions



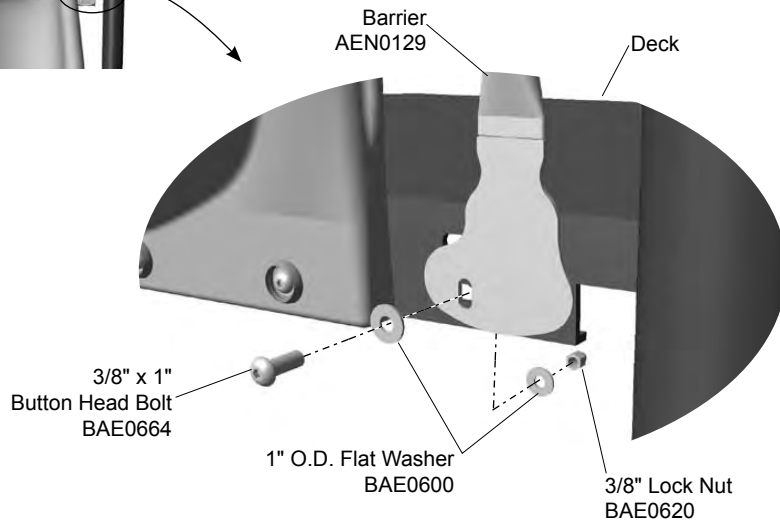
Detail D-1
Step 8



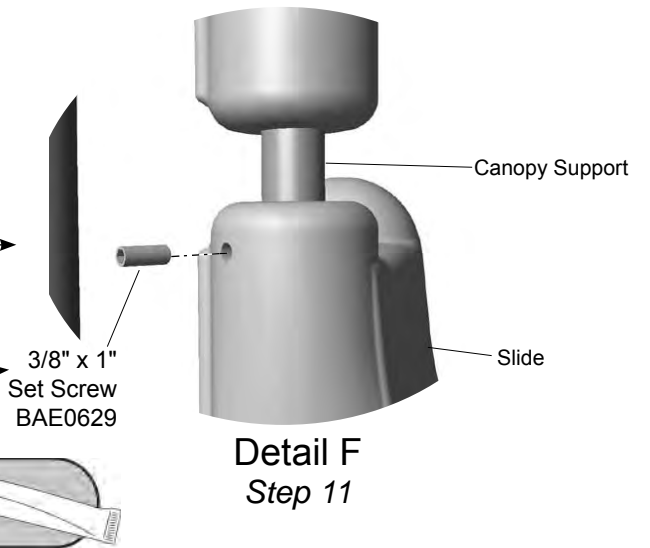
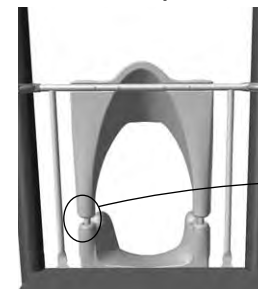
Detail E-2
Step 10



Detail E-1
Step 10

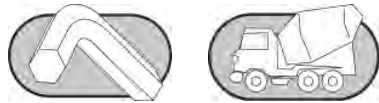


Detail D-2
Step 9

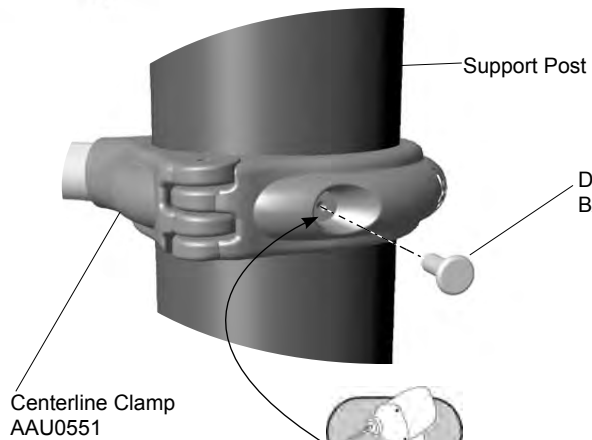
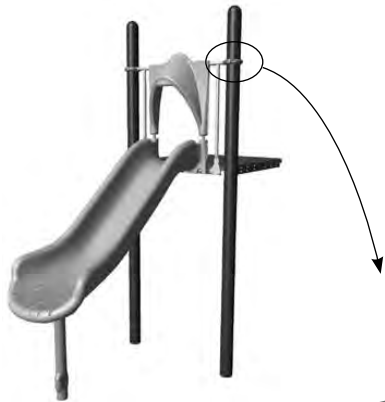


Detail F
Step 11

Installation Instructions



Step 12

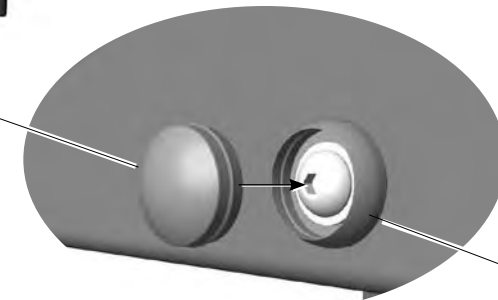


Detail G
Step 13

Drive Rivet
BAE0020



Bolt Cap
BPL0300



Plastic Washer
BPL0300

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

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





Assembly View (representative model)

Model	Description
ZZUN4279	Pipe Wall Mount (CH/EX)
ZZUN4280	Pipe Wall Mount for (PM)
ZZUN4438	Pipe Wall Mount w/Lens (CH/EX)
ZZUN4439	Pipe Wall Mount w/Lens (PM)

Installation Instructions







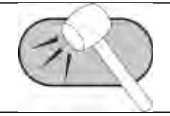
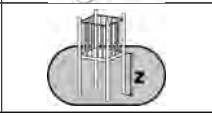
Universal Models UN4279, UN4280,
UN4438, & UN4439

Telescope Pipe Wall Mount (CH/EX) or (PM) &
Telescope Pipe Wall Mount w/ Lens (CH/EX) or (PM)

Installation Preparation

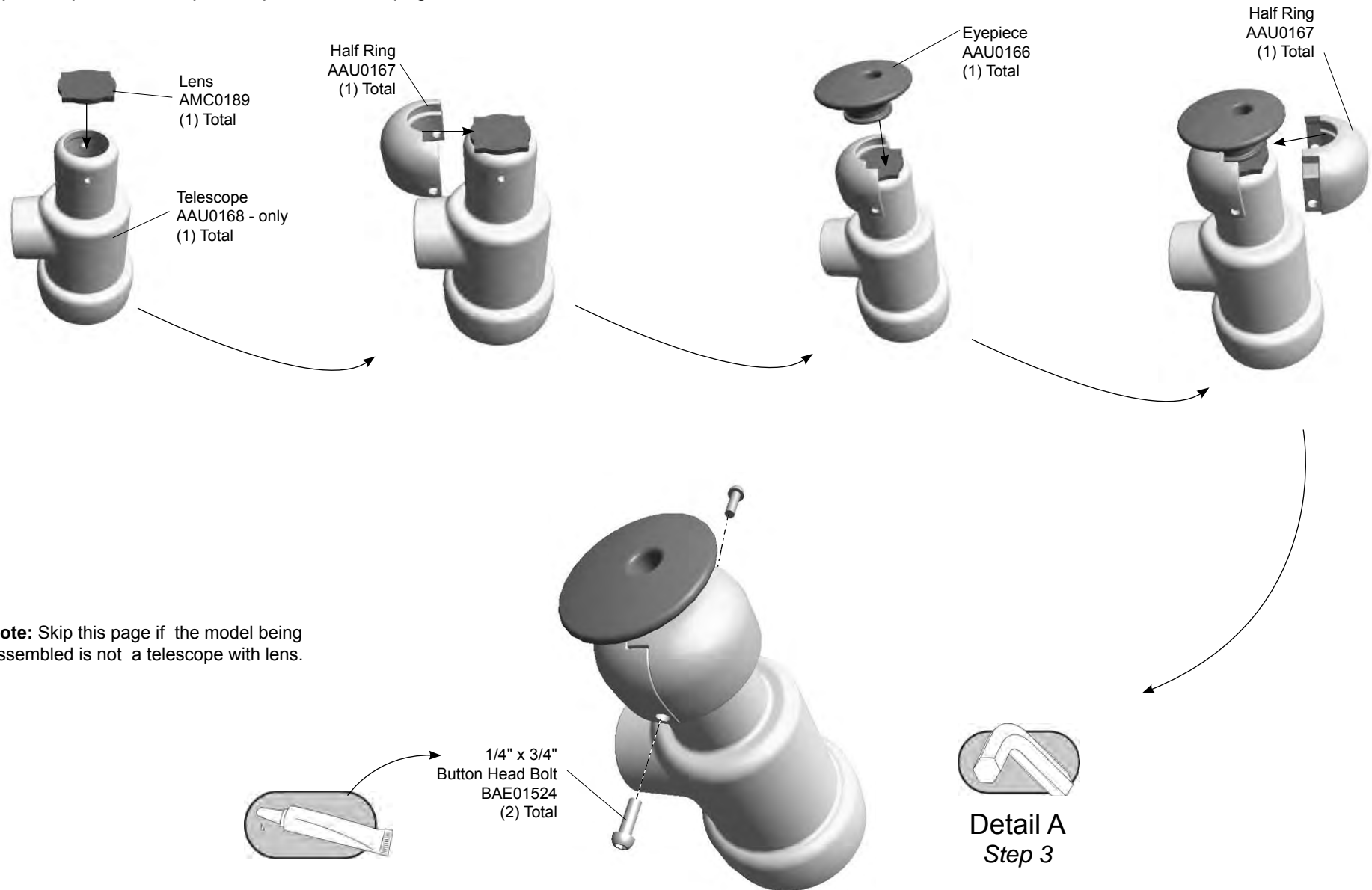
Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

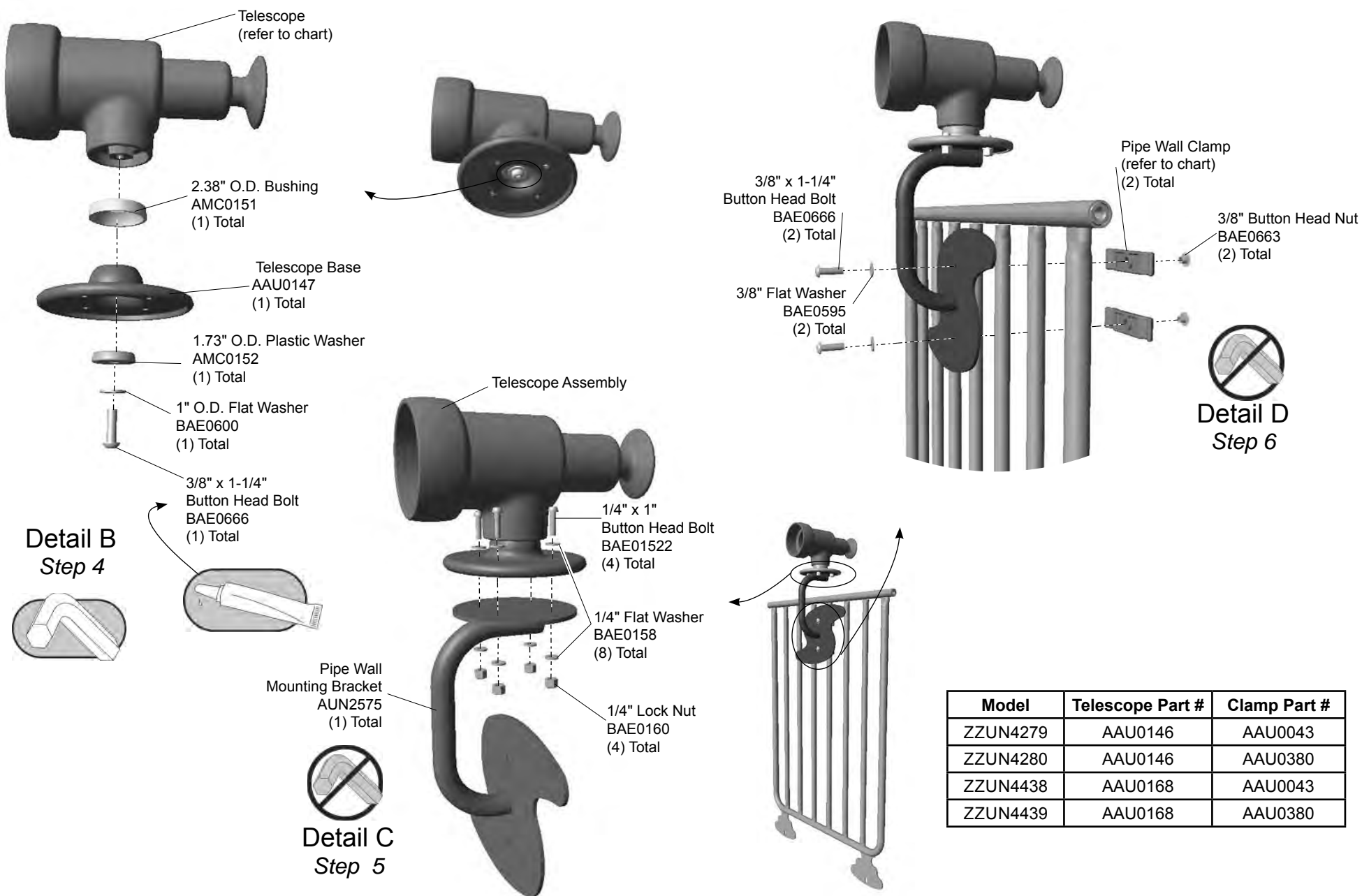
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

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.



Bill of Materials

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




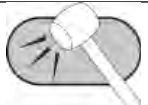



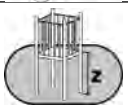
Installation Instructions

Playmakers® Model PM4090

Centerline Pipe Wall Barrier

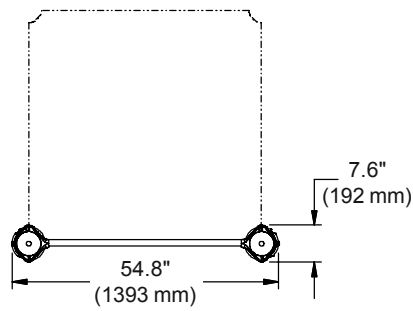
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

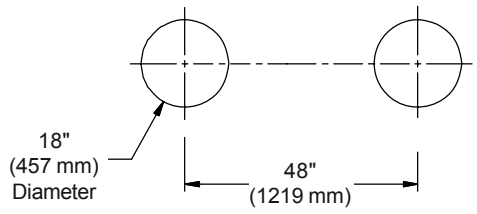
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

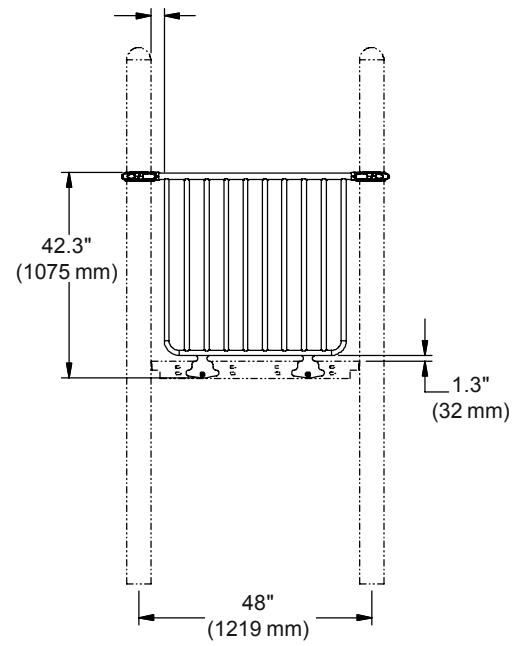
Top View



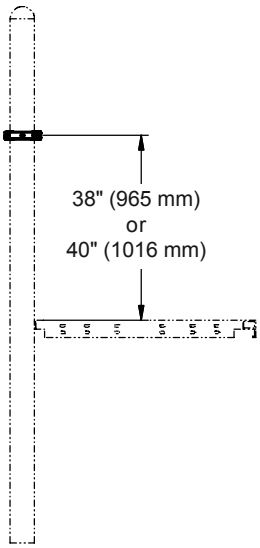
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

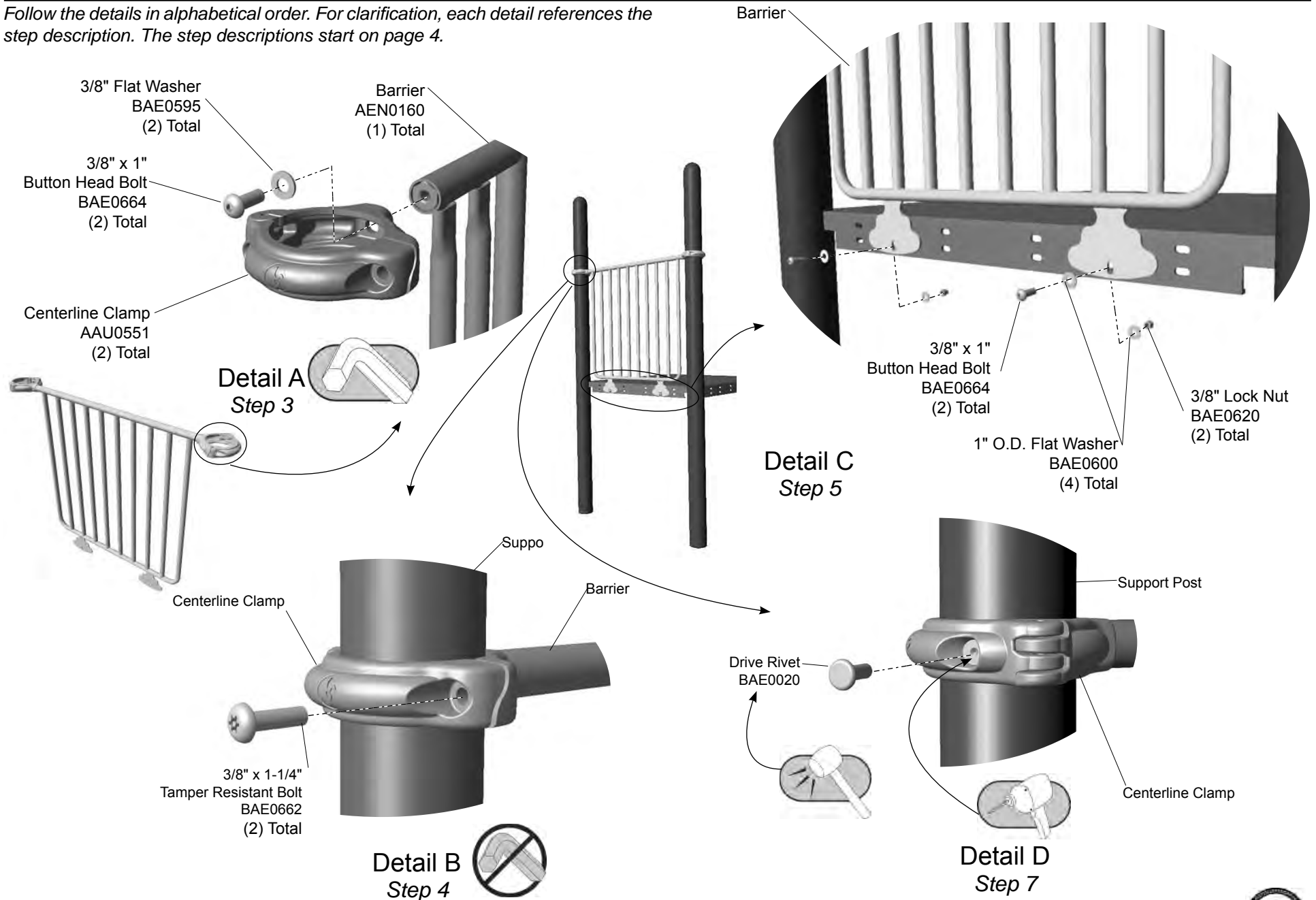


Elevation View



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




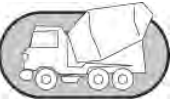



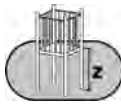
Playmakers® Model PM4288

Compliance Access Gate

Installation Preparation

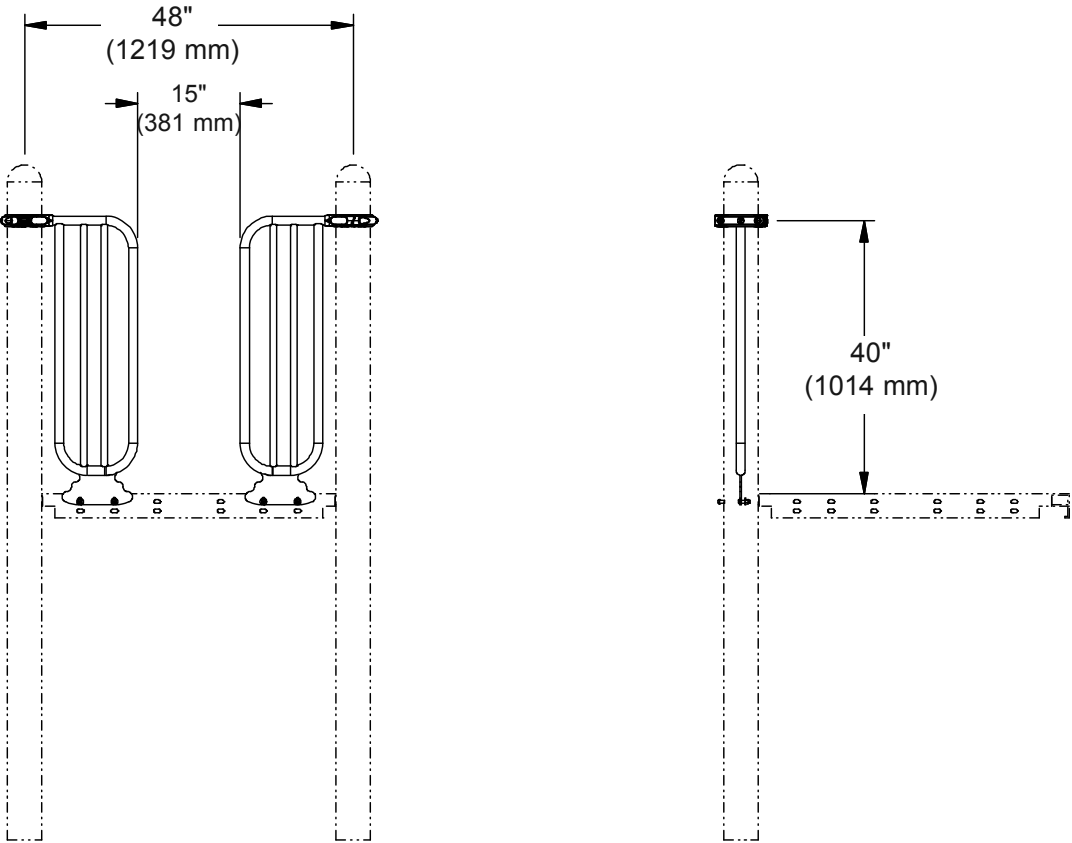
Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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

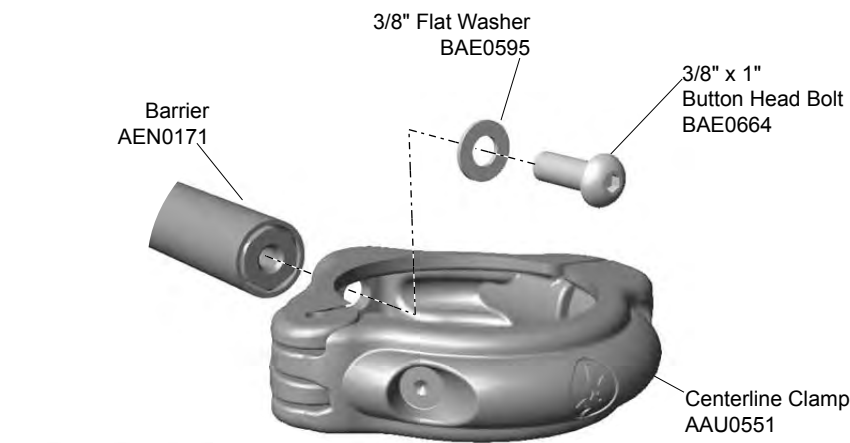
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



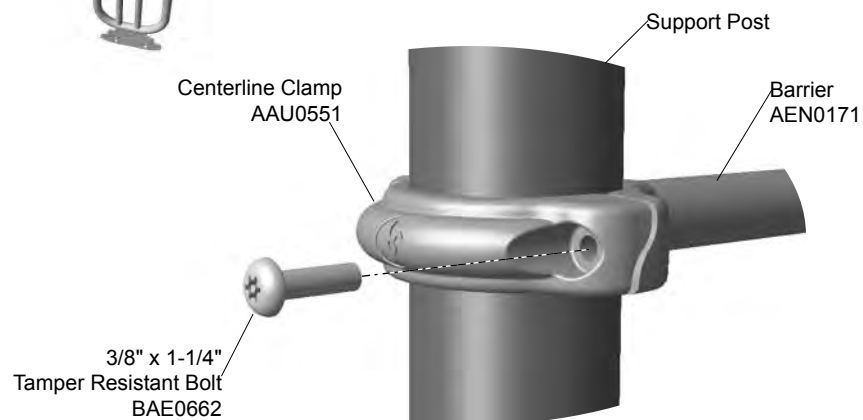
Elevation View

Installation Instructions

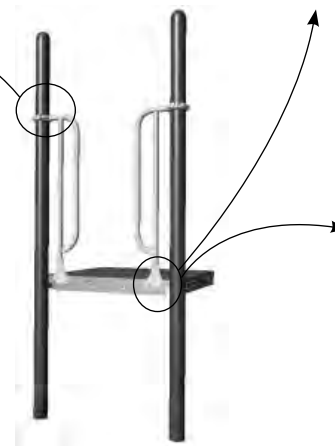
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



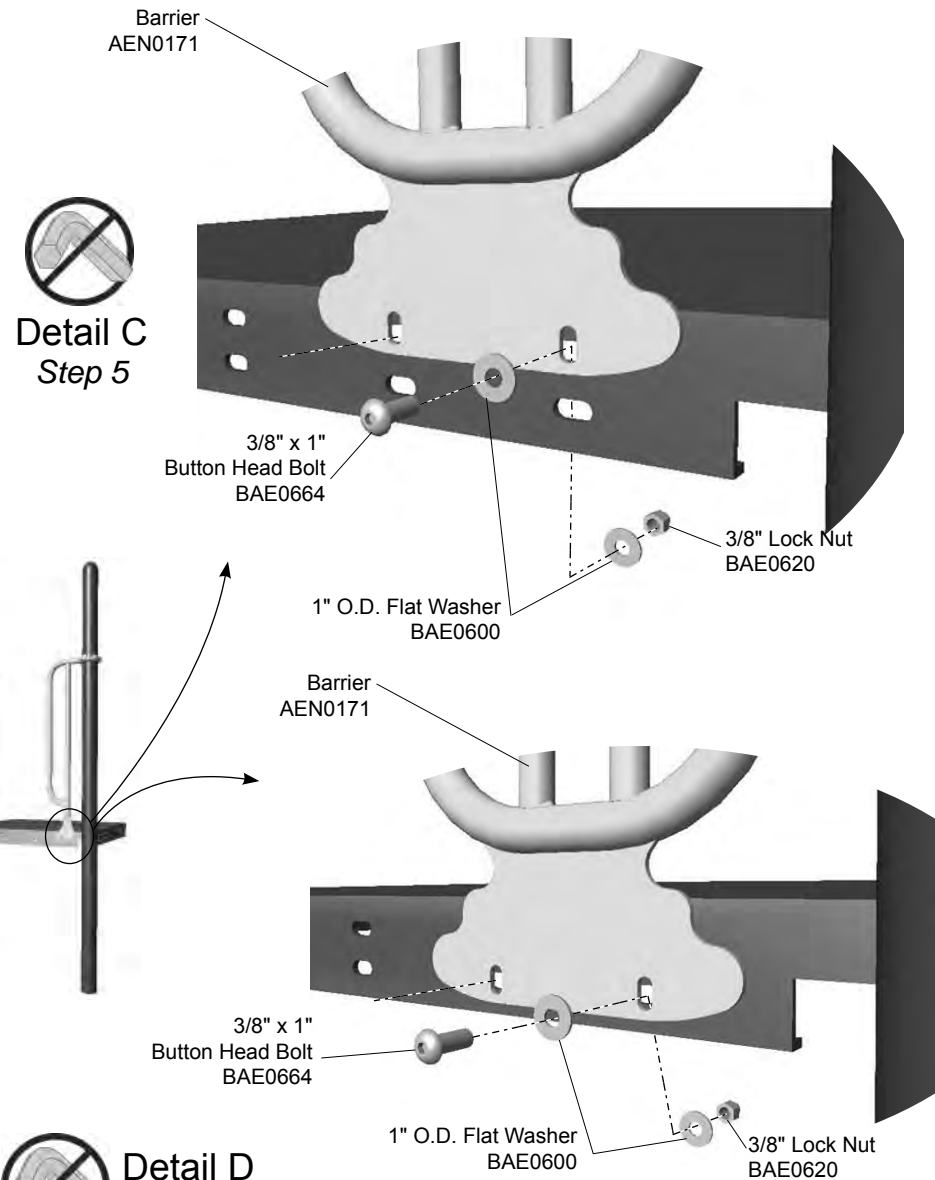
Detail A
Step 3



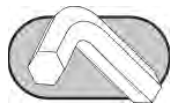
Detail B
Step 4



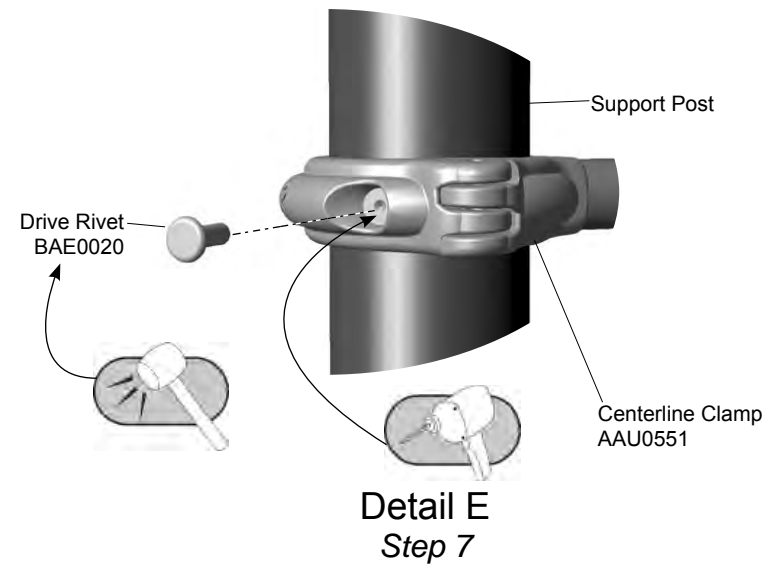
Detail D
Step 5



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




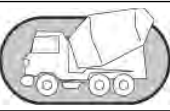


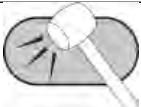
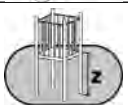
Playmakers® Model PM7439

Rock Climber To Deck

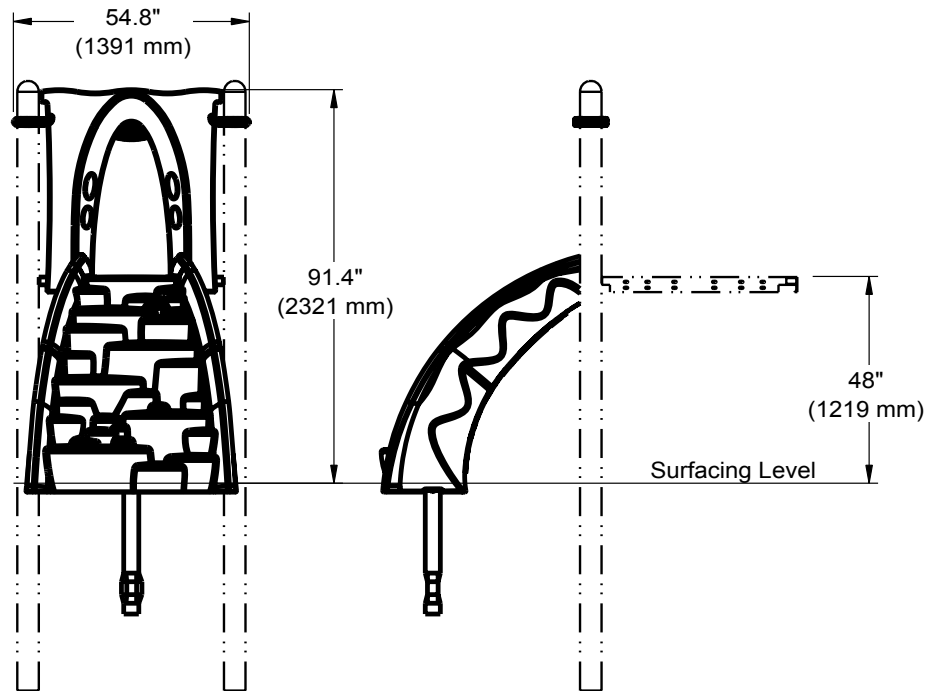
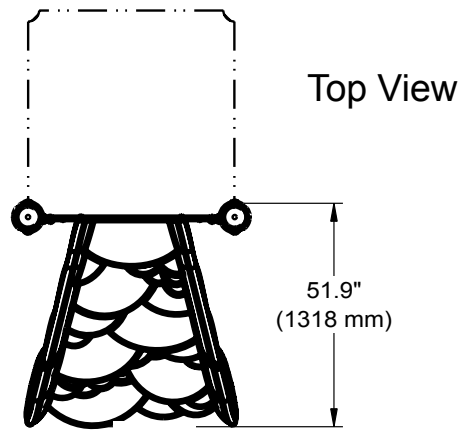
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 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

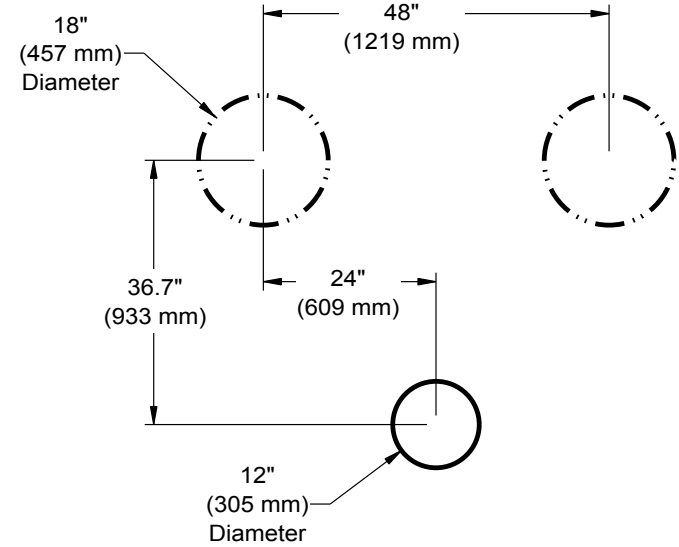
ICON KEY

	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



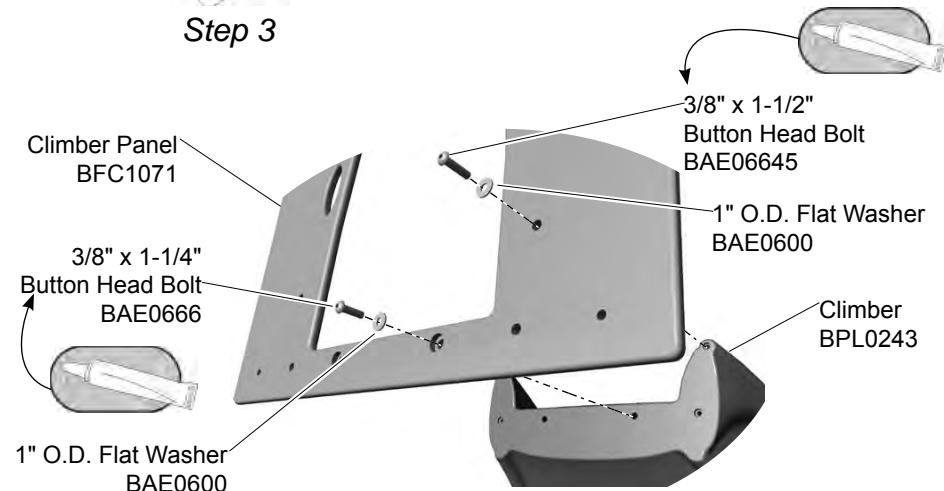
Footing Diagram

Installation Instructions

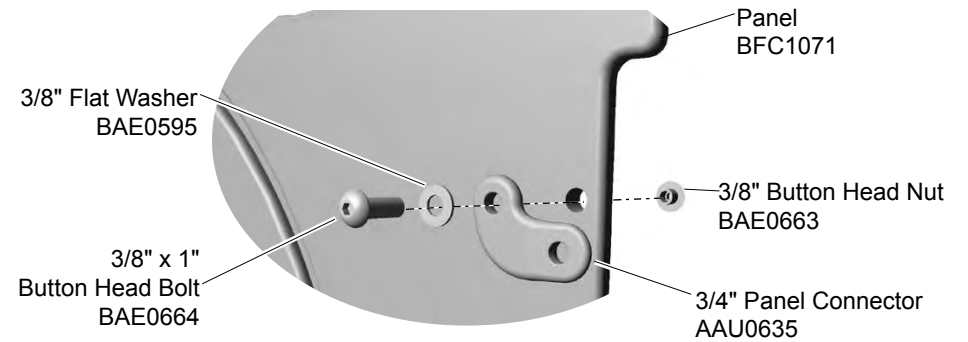
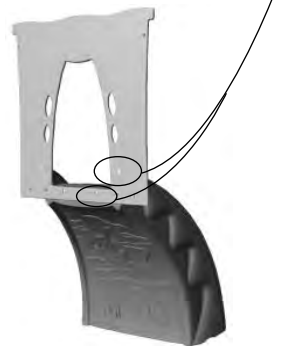
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



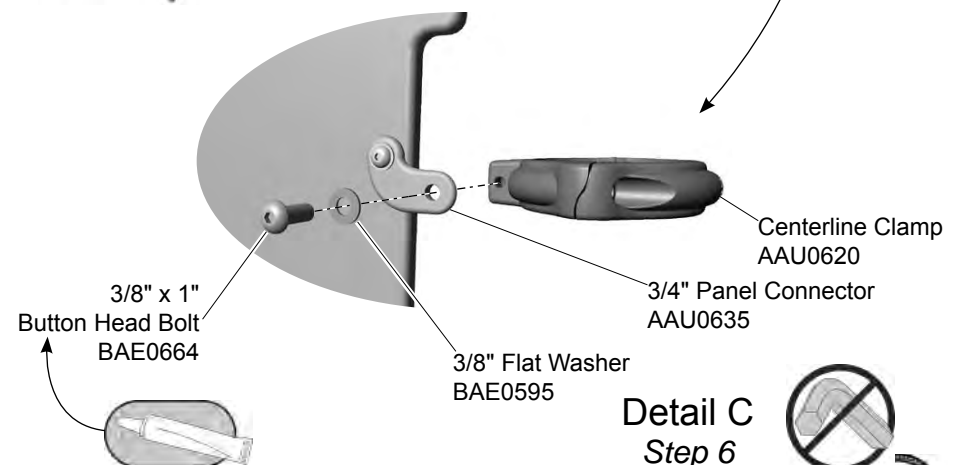
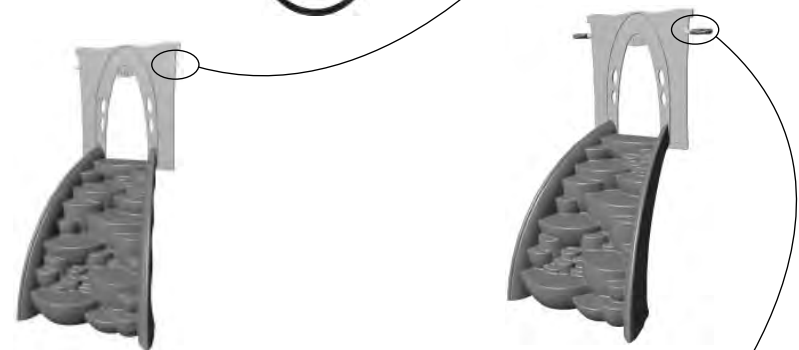
Step 3



Detail A
Step 4



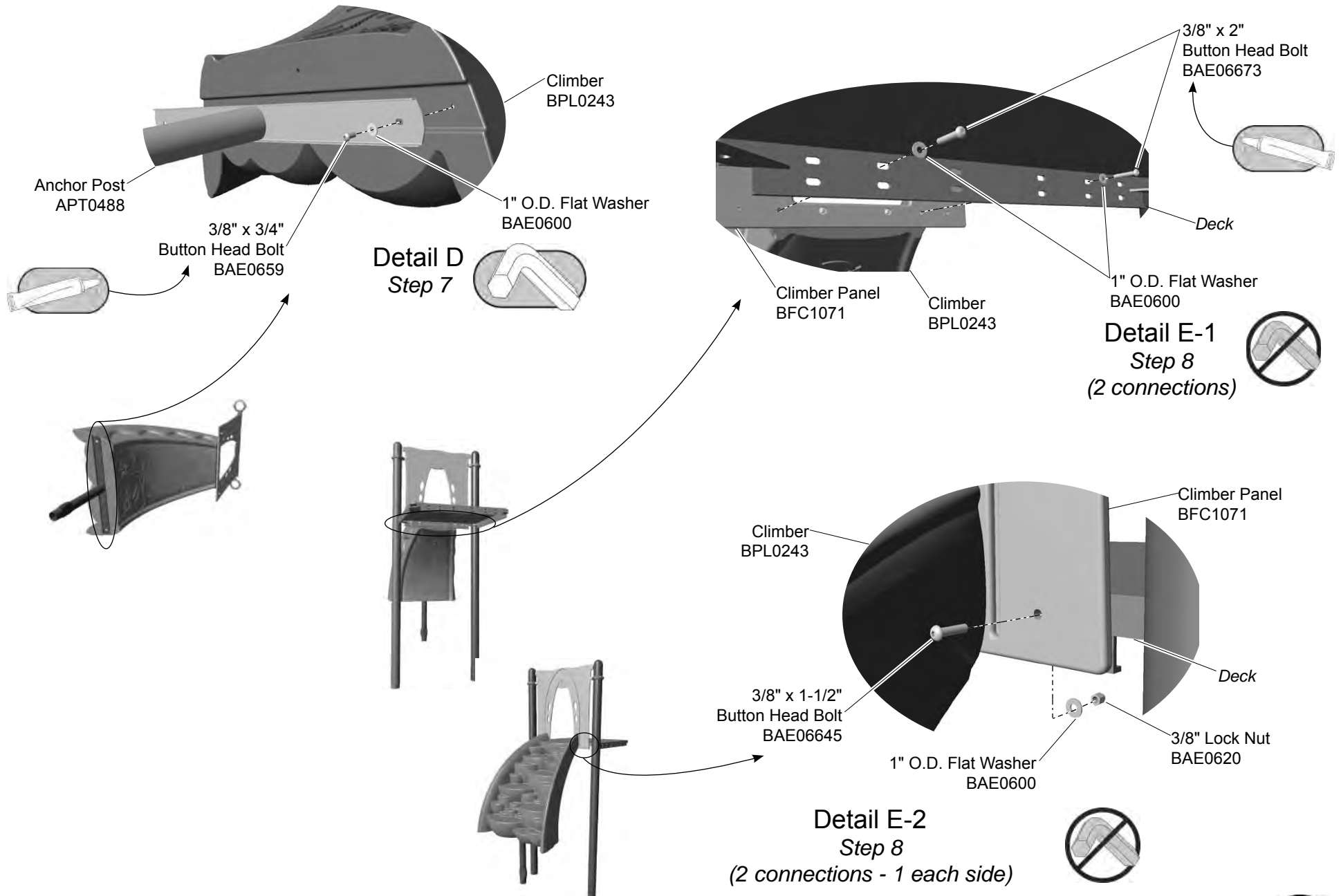
Detail B
Step 5



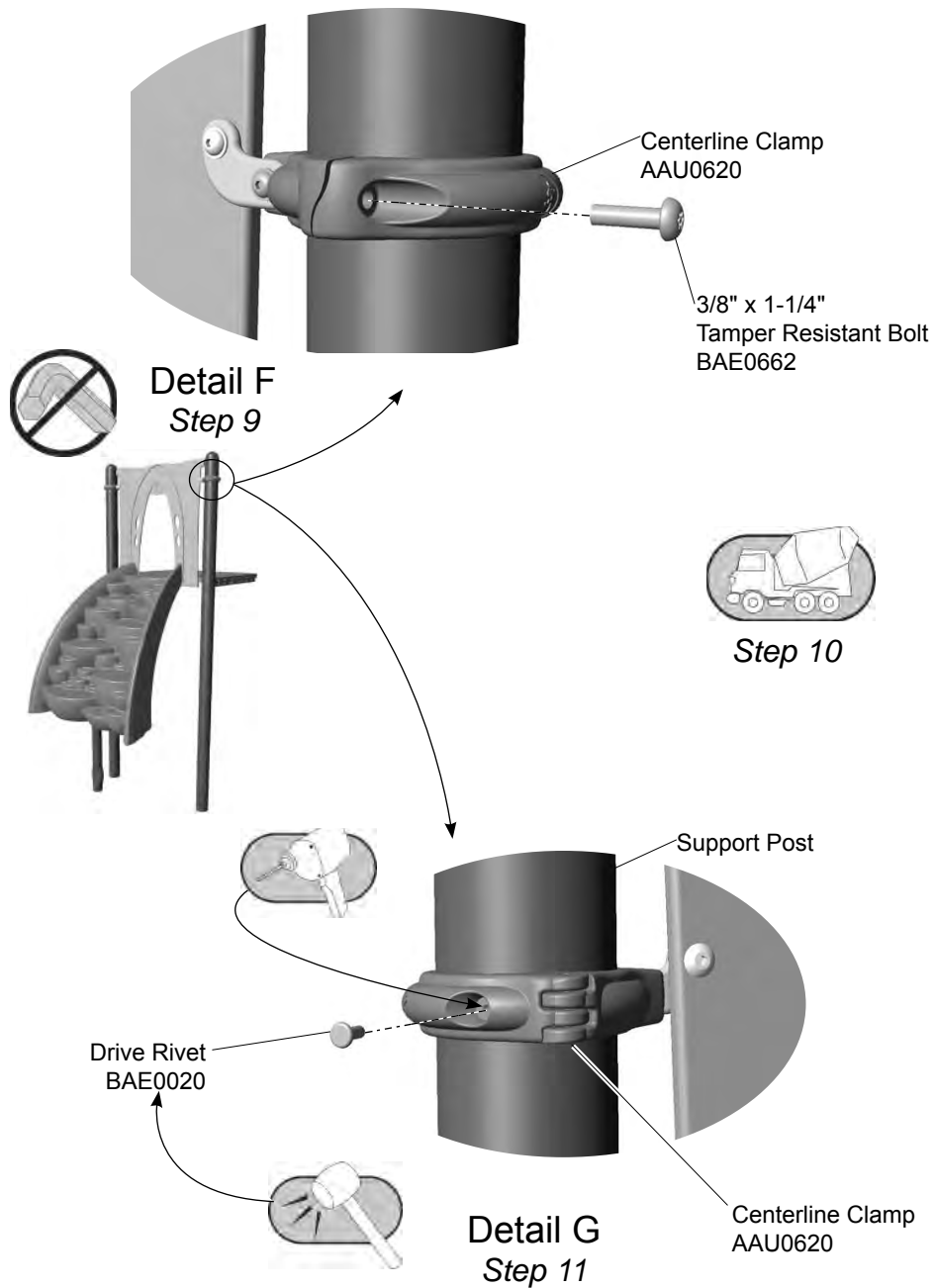
Detail C
Step 6



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 centerline 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" TMPR 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
ZZPM7948	24" (610 mm)
ZZPM7949	36" (915 mm)
ZZPM7950	48" (1220 mm)
ZZPM7956	60" (1525 mm)
ZZPM7957	72" (1829 mm)

Installation Instructions

Playmakers[®] Models PM7948, PM7949,
PM7950, PM7956, and PM7957







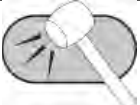
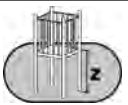
Silo Climber

24 in (610 mm), 36 in (914 mm), 48 in (1219 mm),
60 in (1524 mm), 72 in (1829 mm) Deck

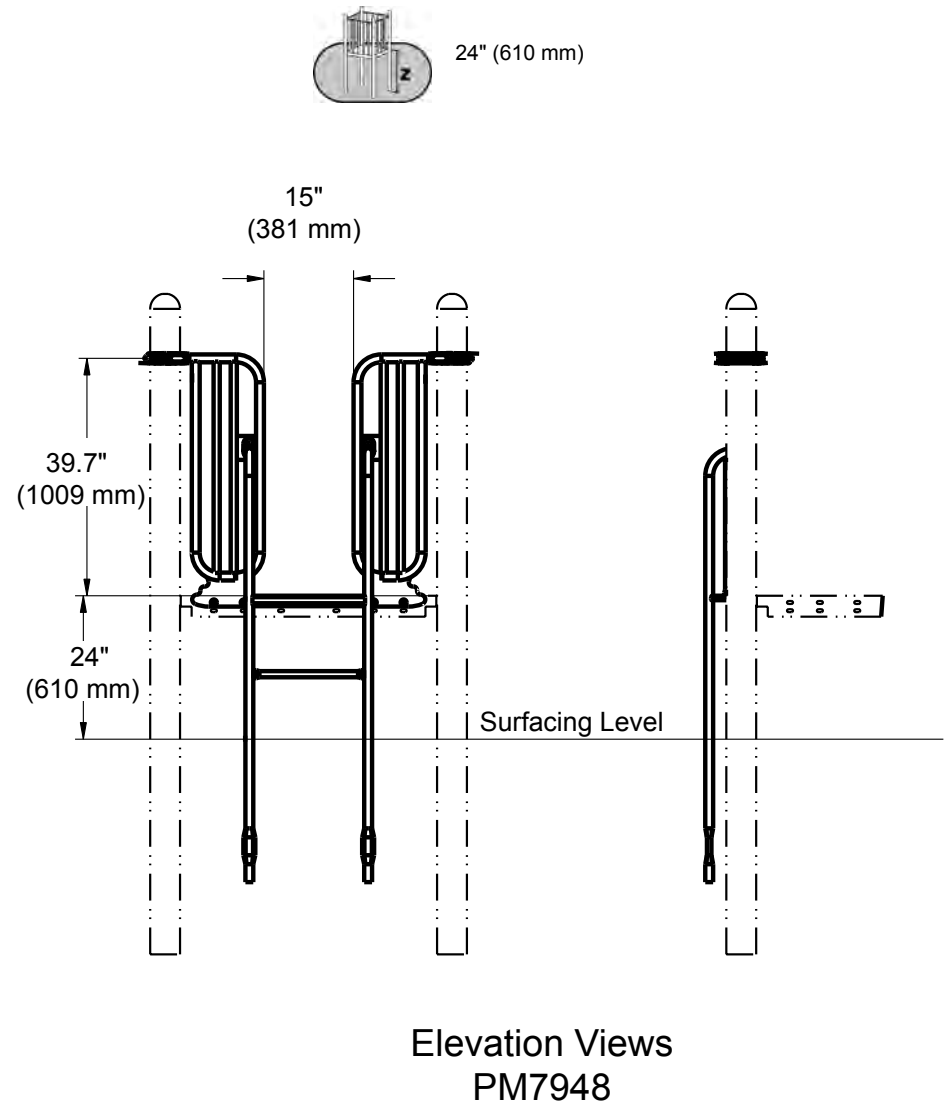
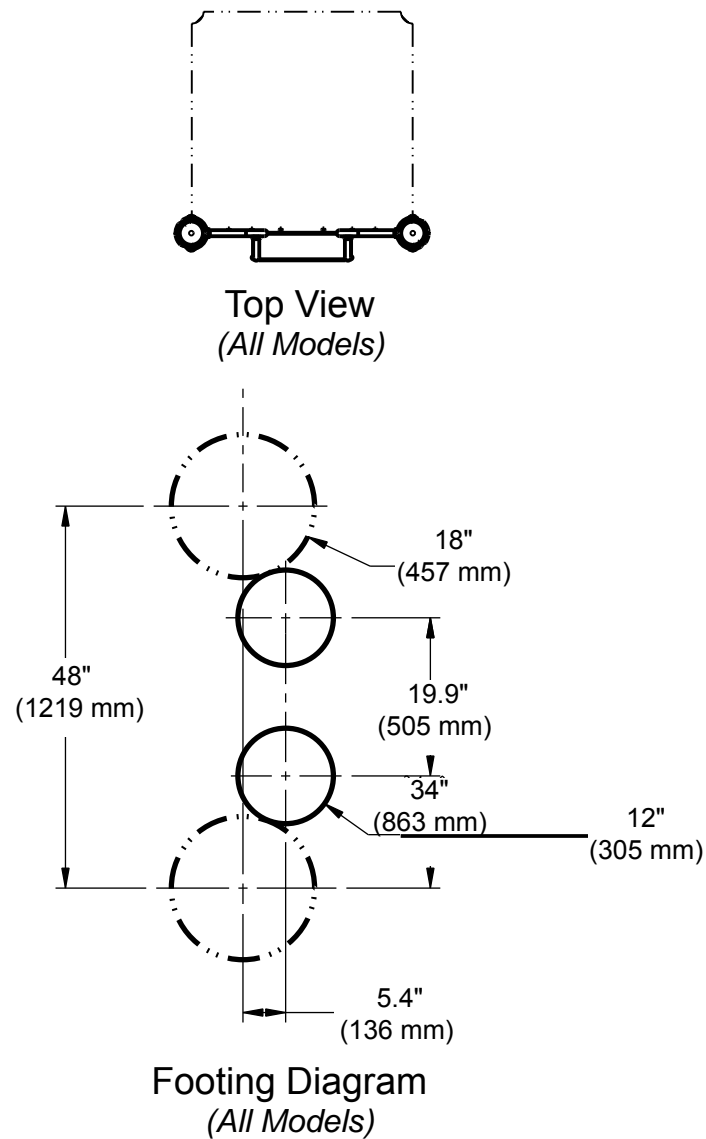
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1.5 hours
 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

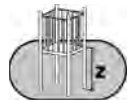
ICON KEY

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

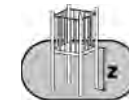
Installation Instructions



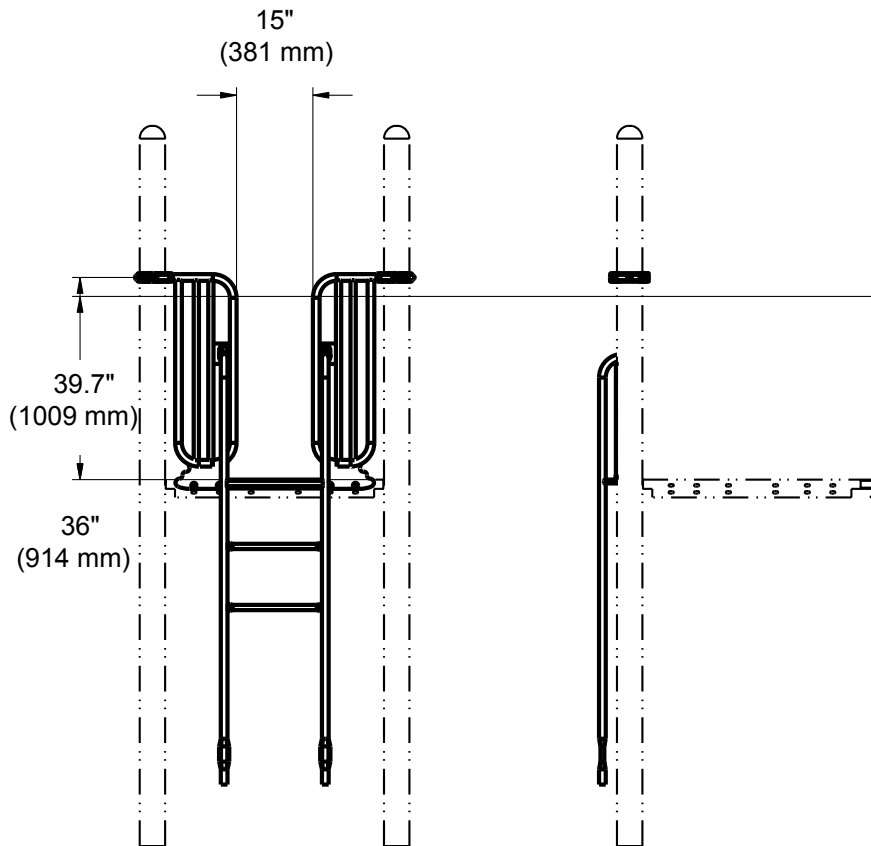
Installation Instructions



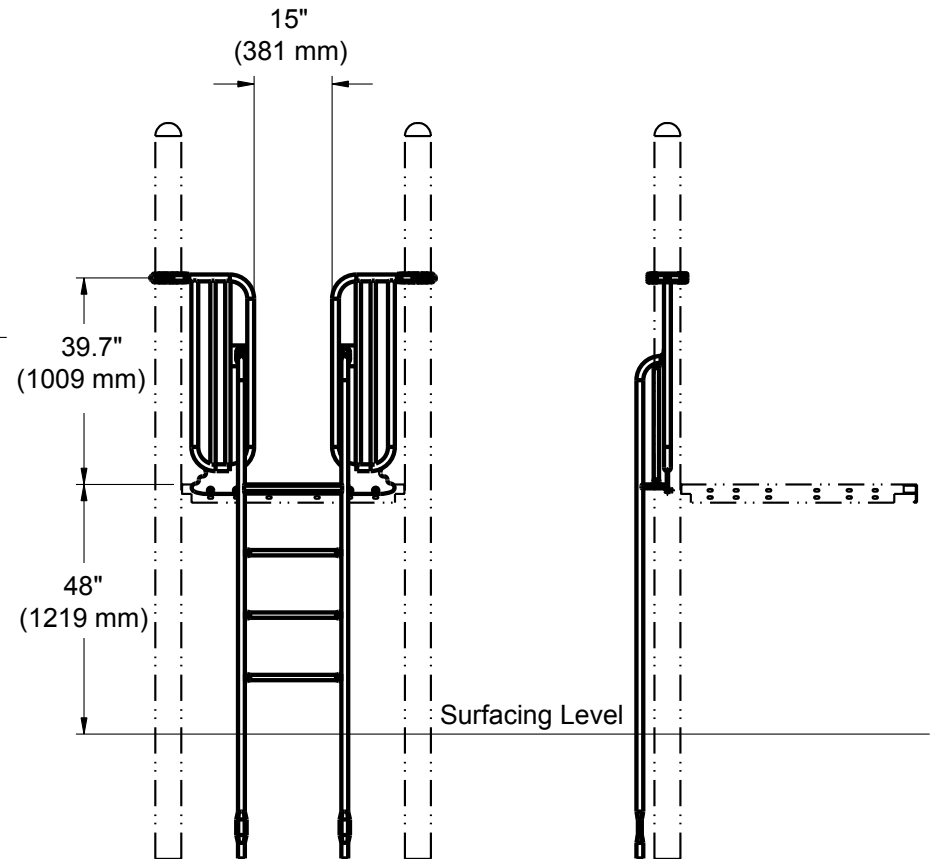
36" (914 mm)



48" (1219 mm)

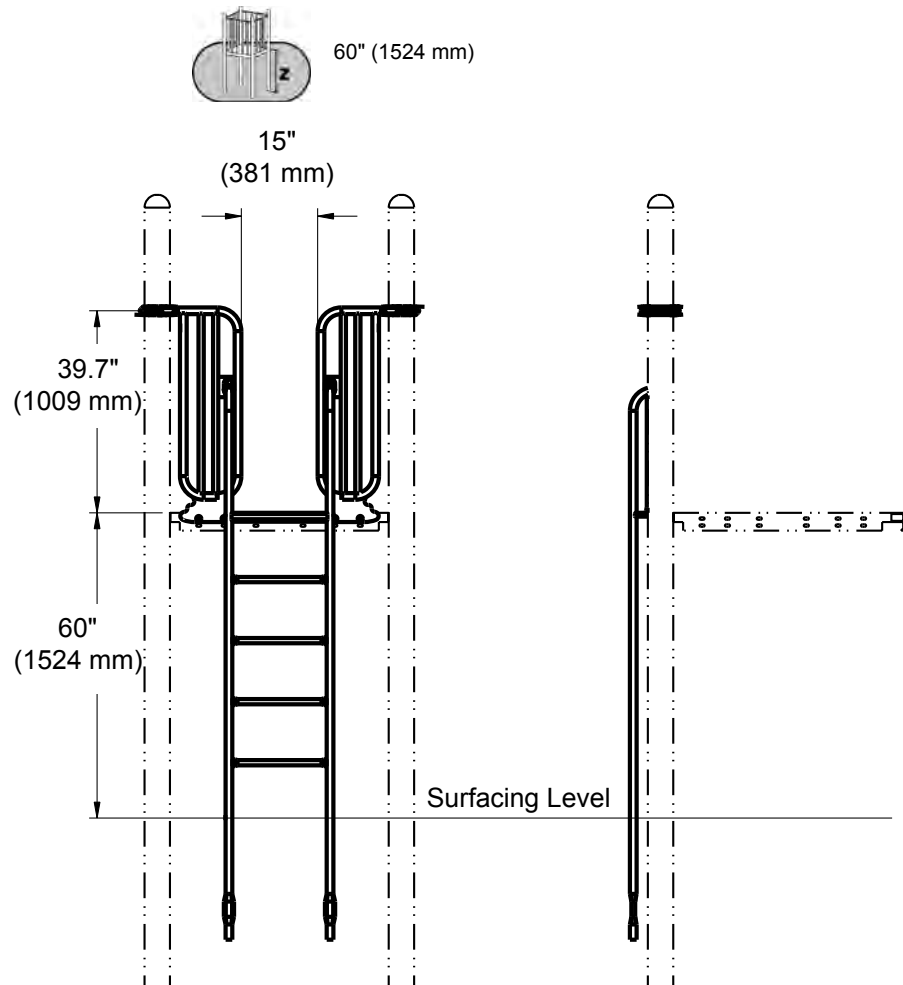


Elevation Views
PM7949

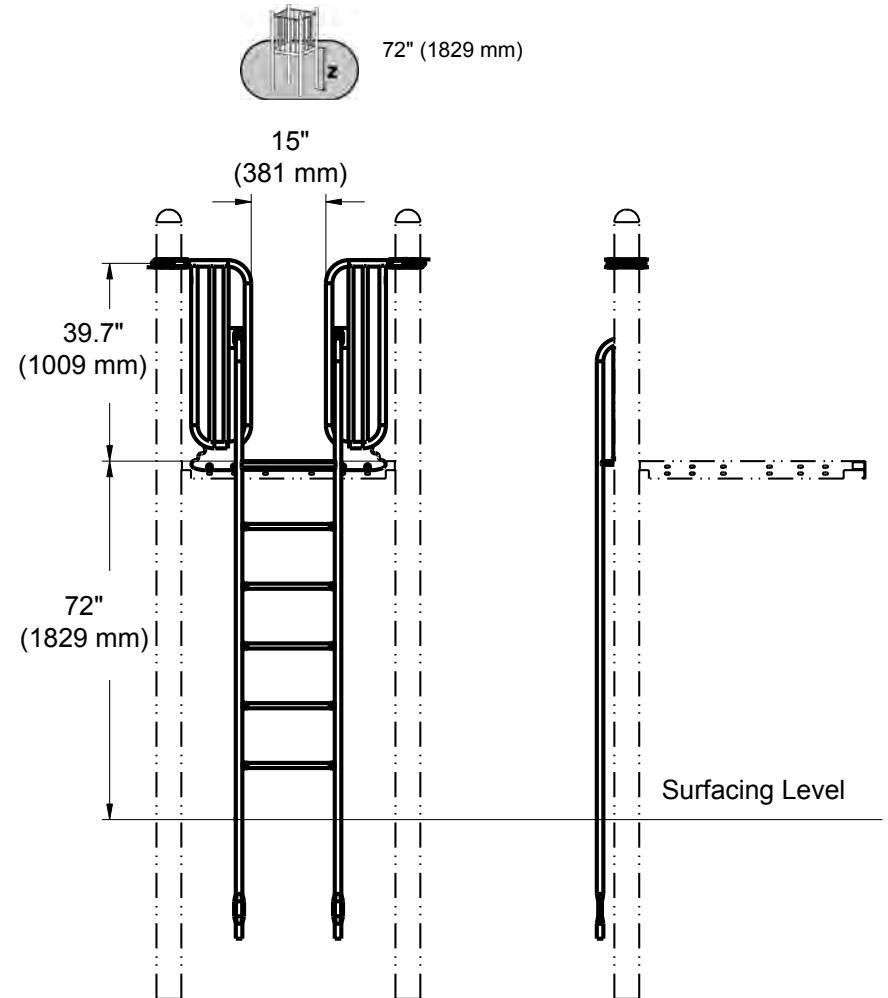


Elevation Views
PM7950

Installation Instructions



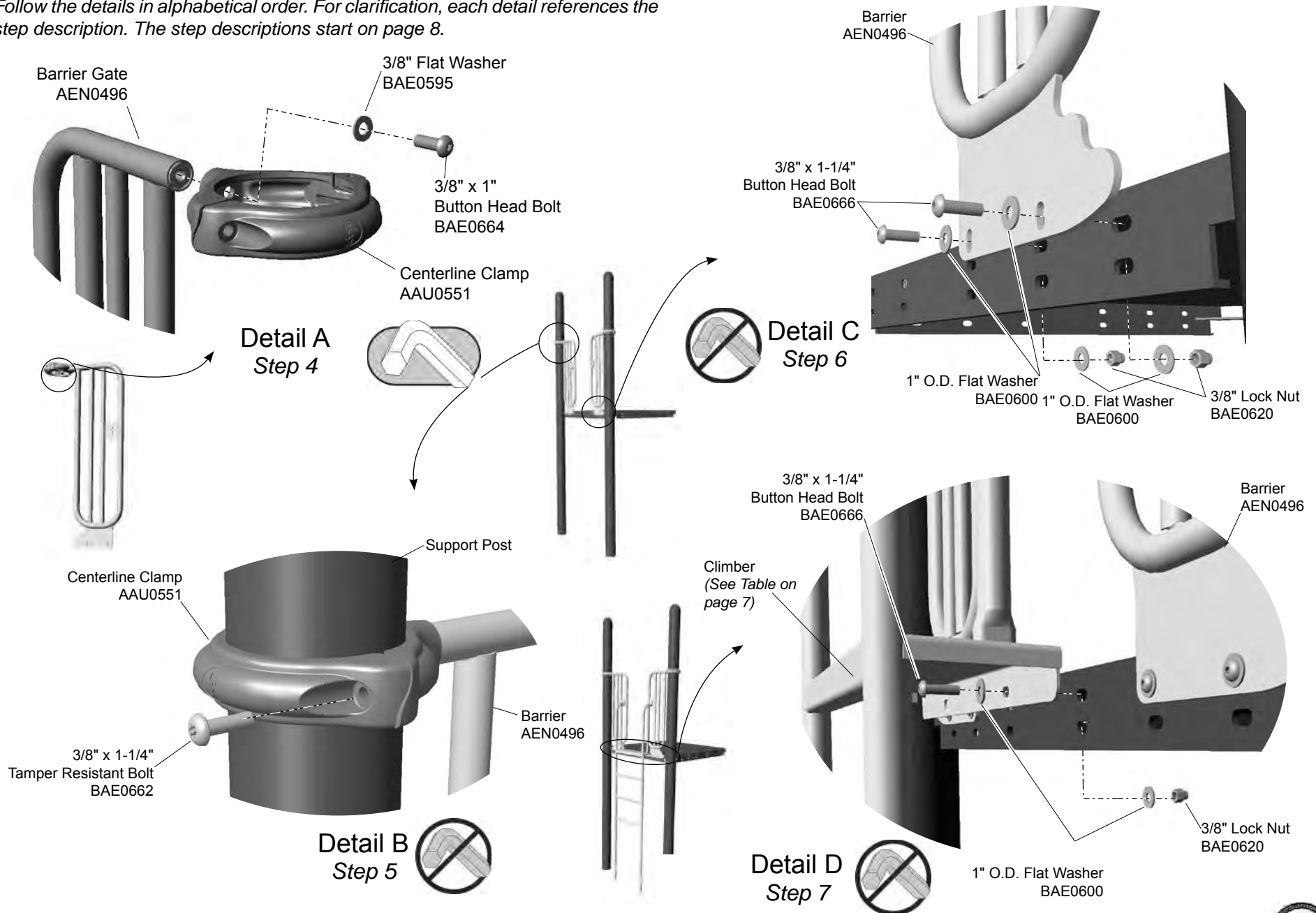
Elevation Views
PM7956



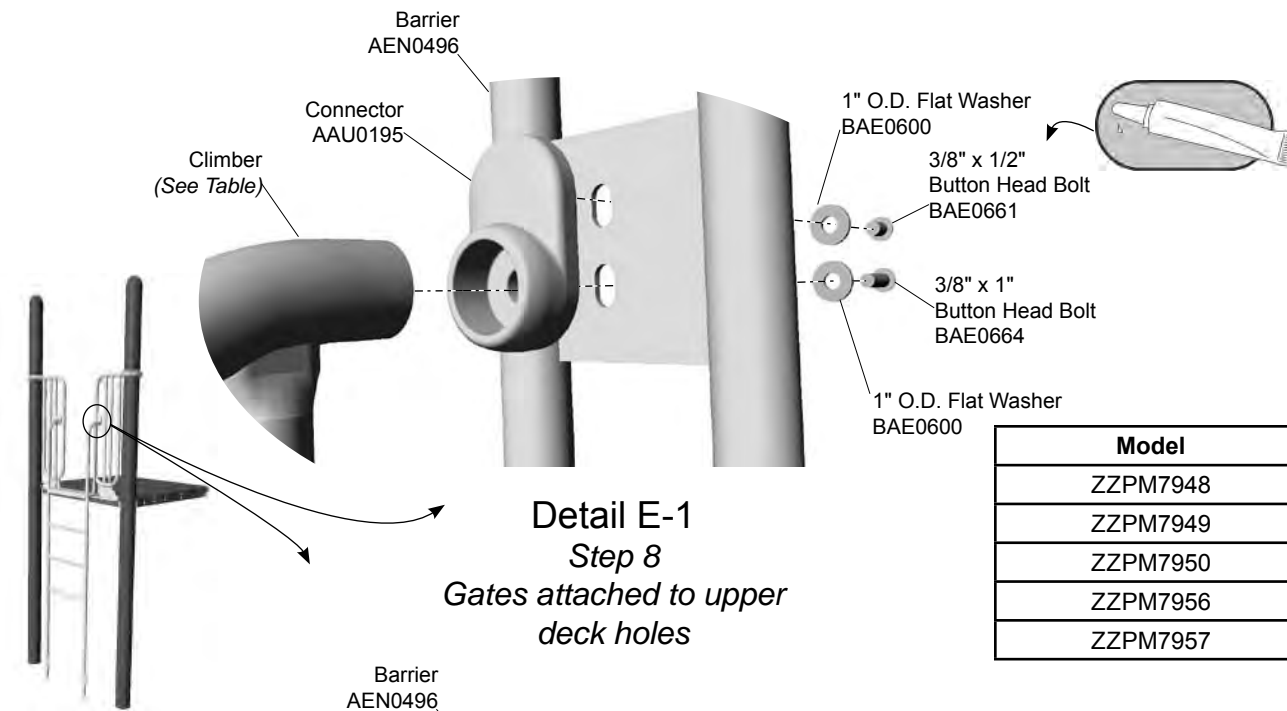
Elevation Views
PM7957

Installation Instructions

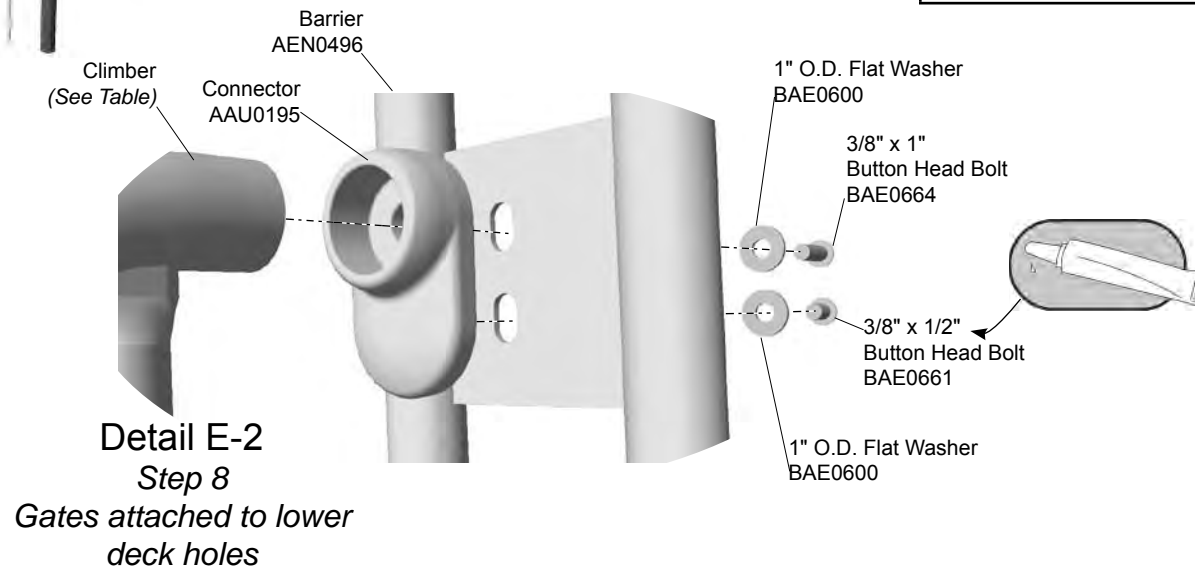
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



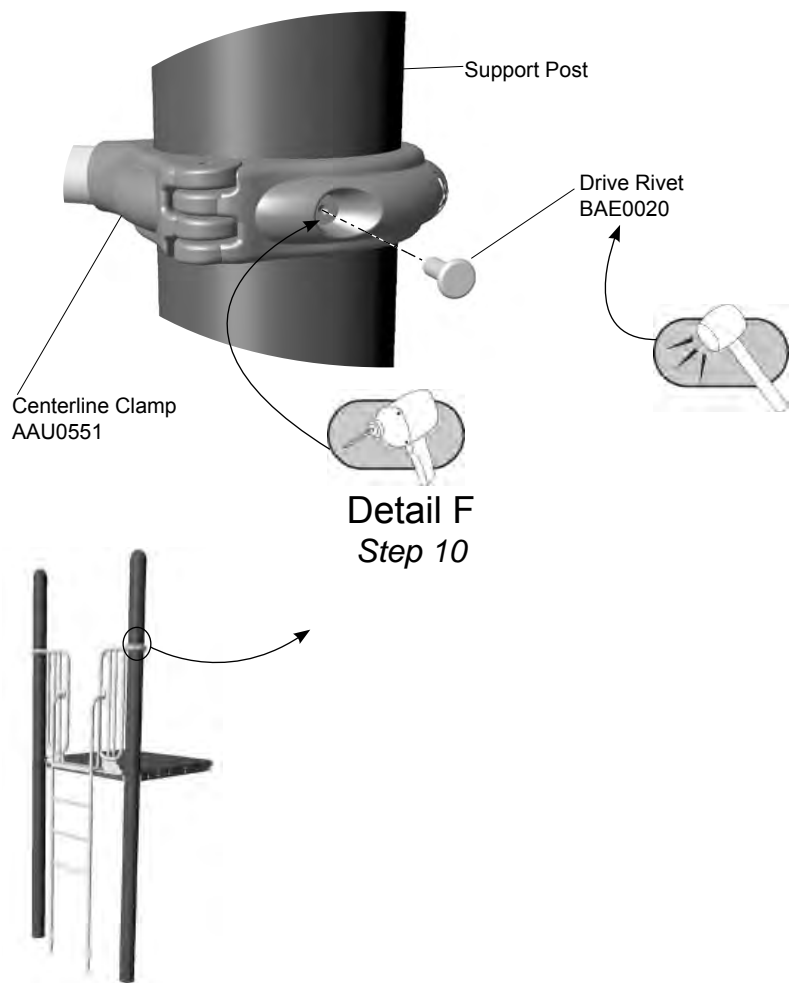
Installation Instructions



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





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







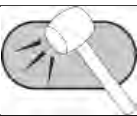
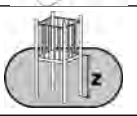
Ribbon Climber

36 in. (914 mm), 48 in. (1219 mm),
60 in. (1524 mm), 72 in. (1829 mm)

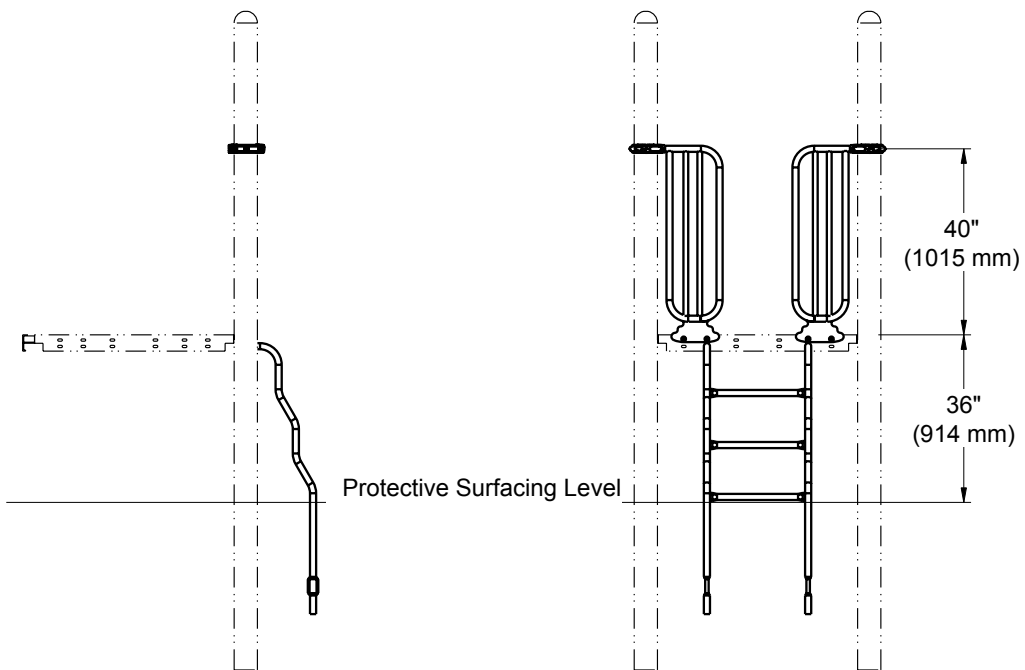
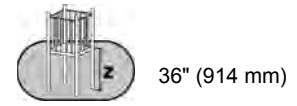
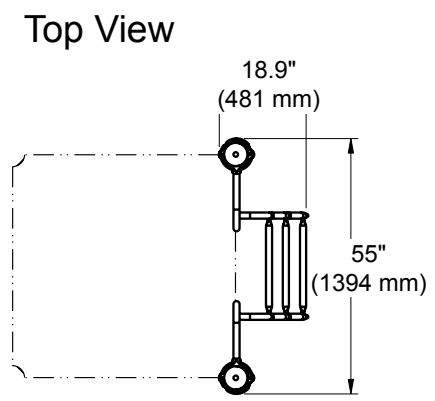
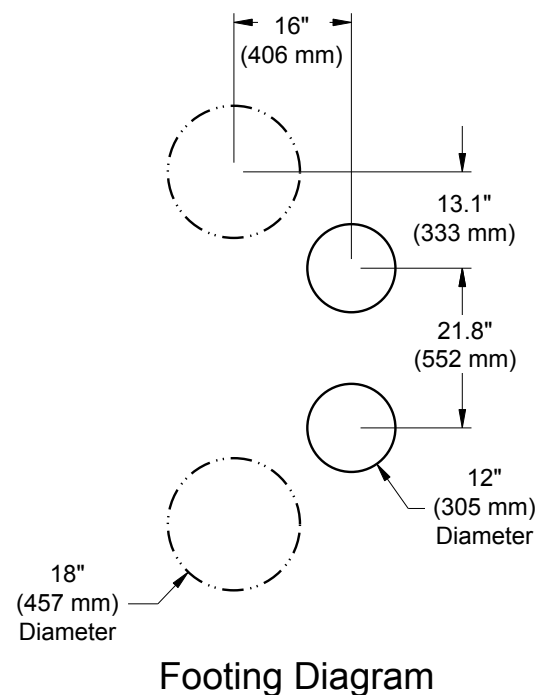
Installation Preparation

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"-60": 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

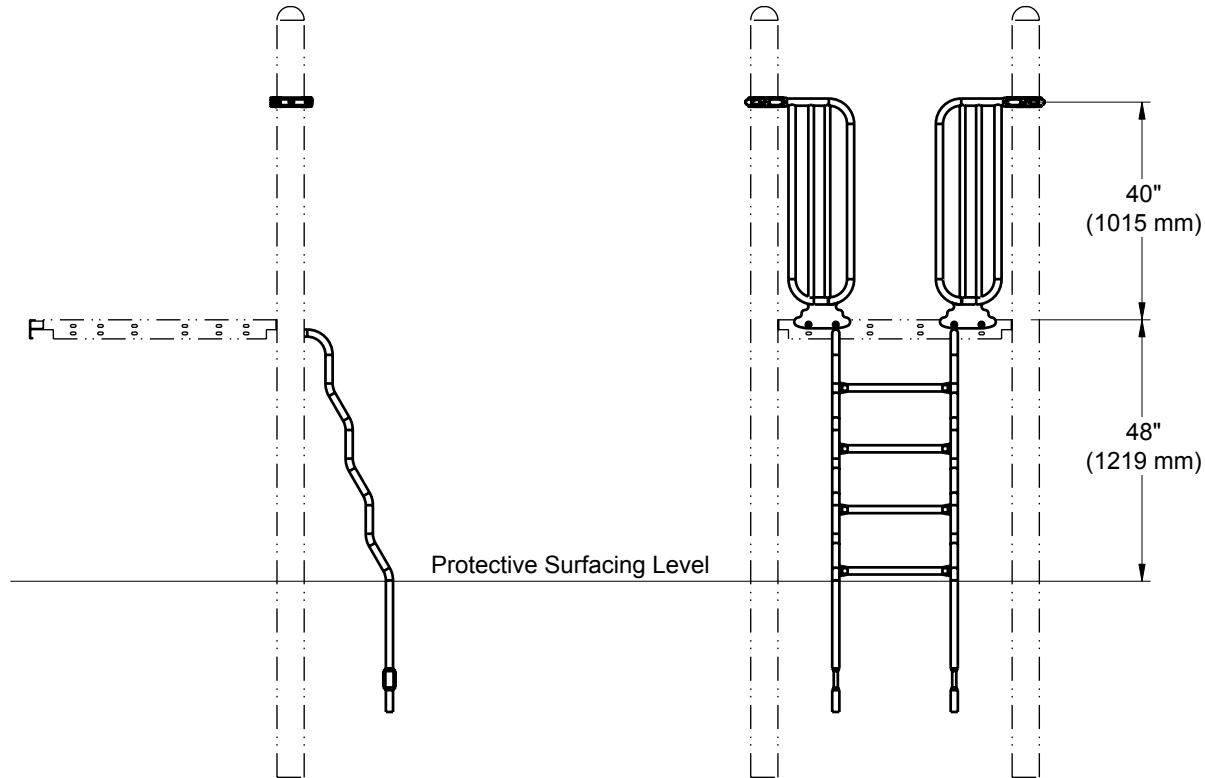
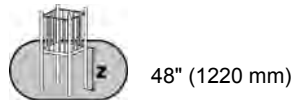
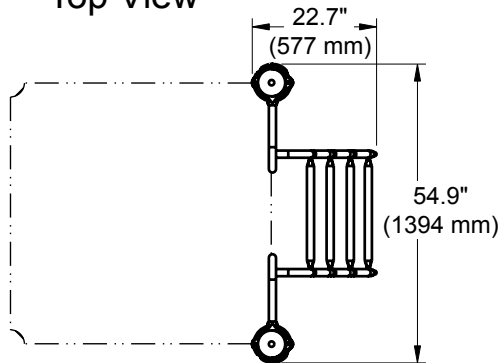


Elevation View
36" (914 mm) Deck

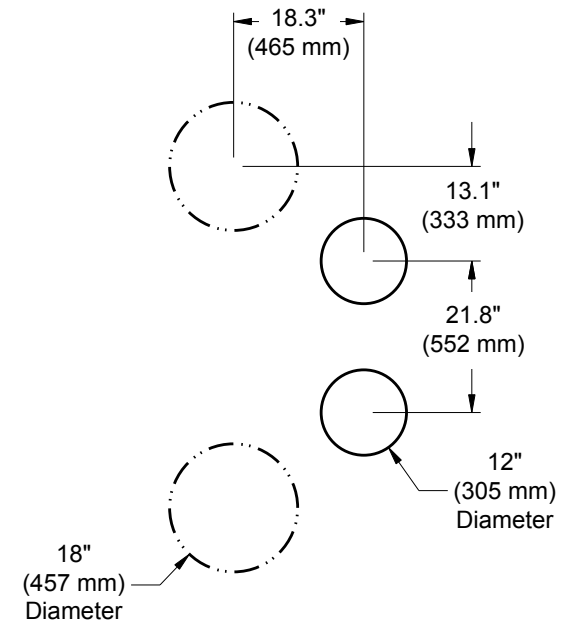


Installation Instructions

Top View



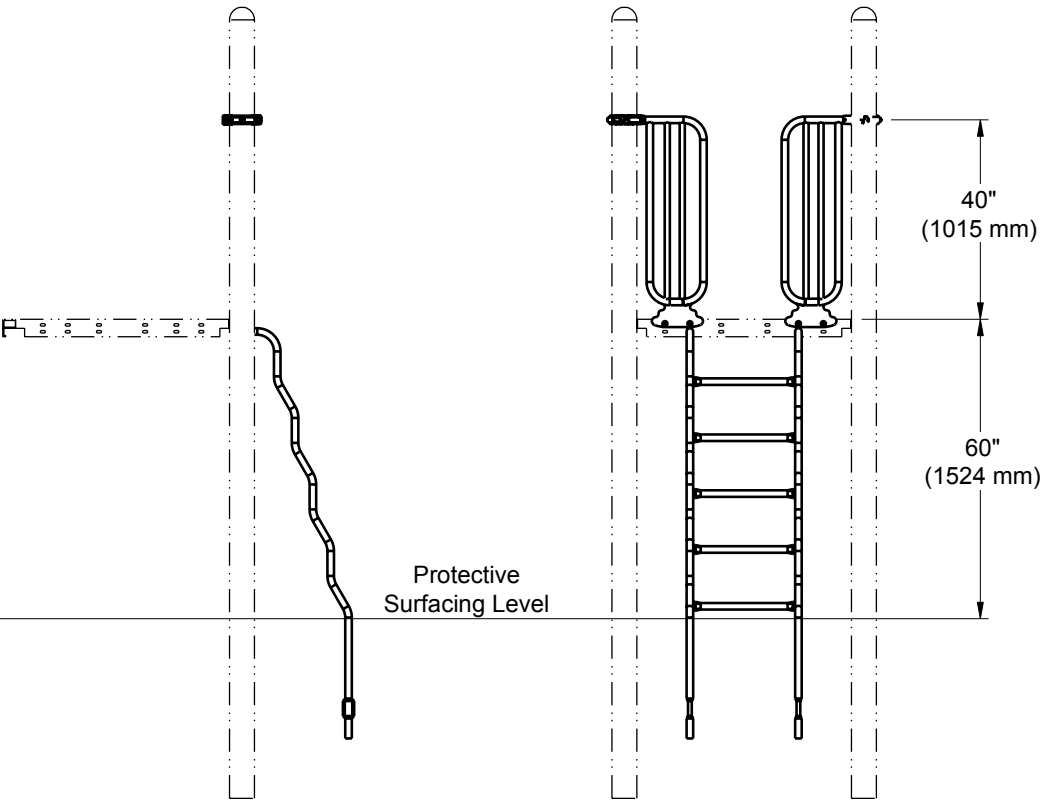
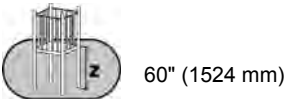
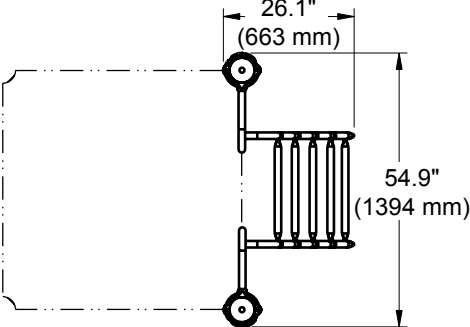
Elevation View
48" (1219 mm) Deck



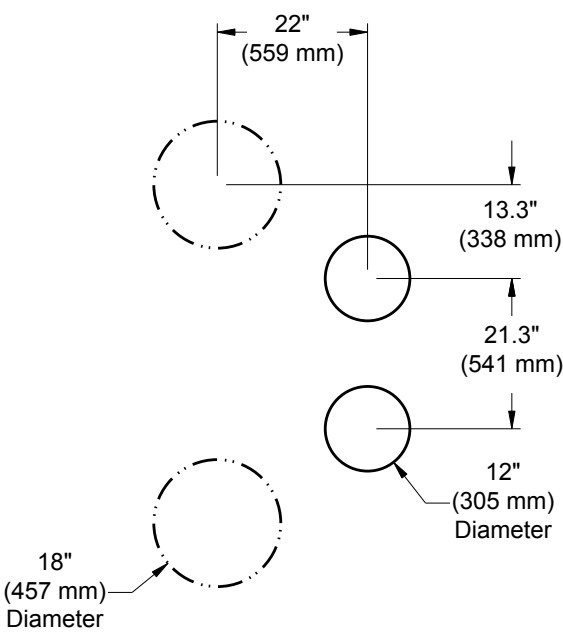
Footing Diagram

Installation Instructions

Top View



Elevation View
60" (1524 mm) Deck

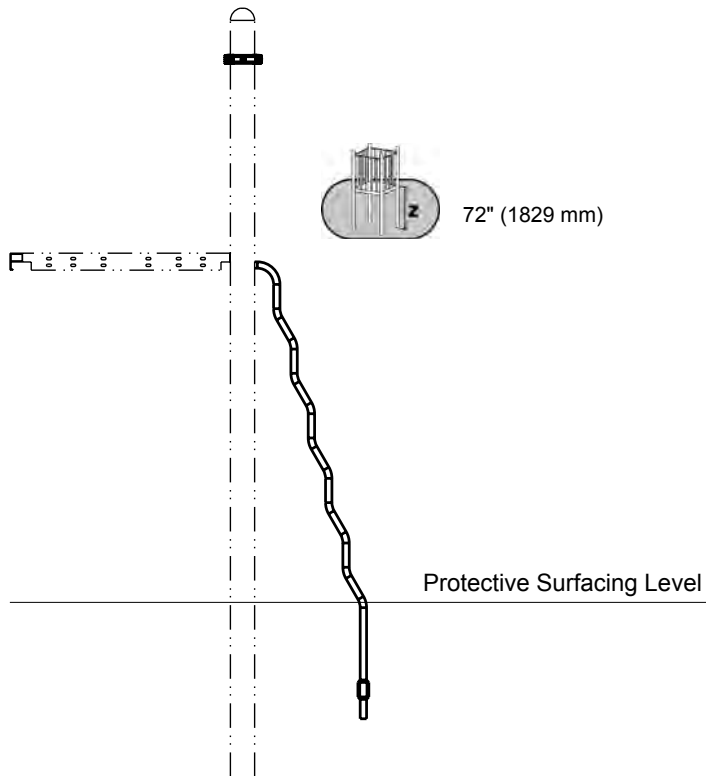
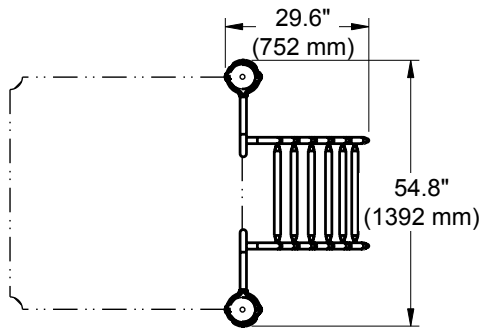


Footing Diagram

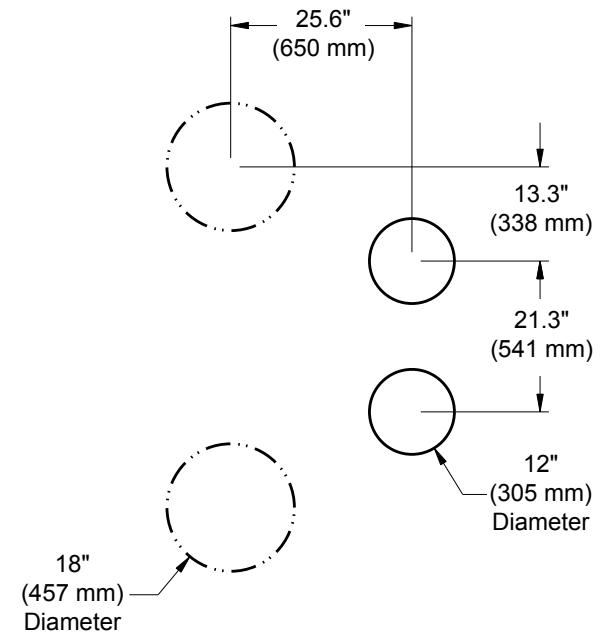
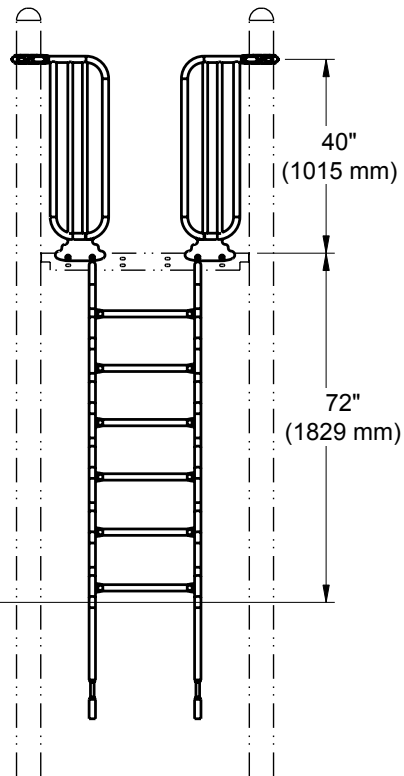


Installation Instructions

Top View



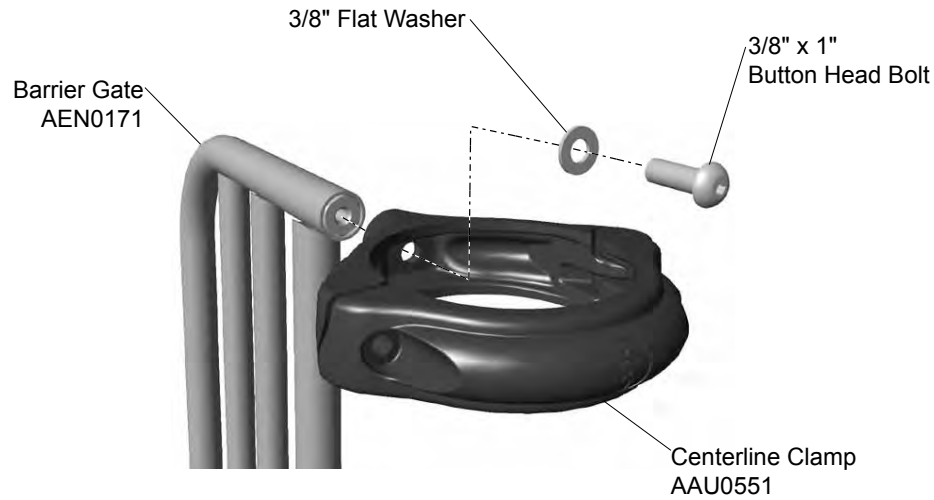
Elevation View 72" (1829 mm) Deck



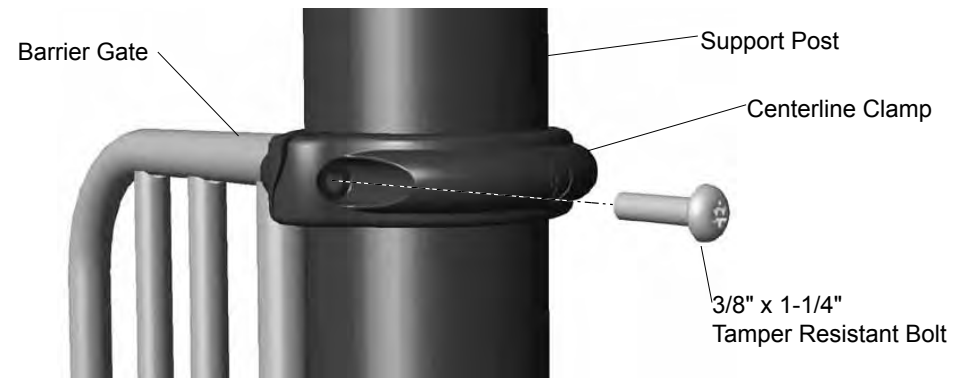
Footing Diagram

Installation Instructions

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

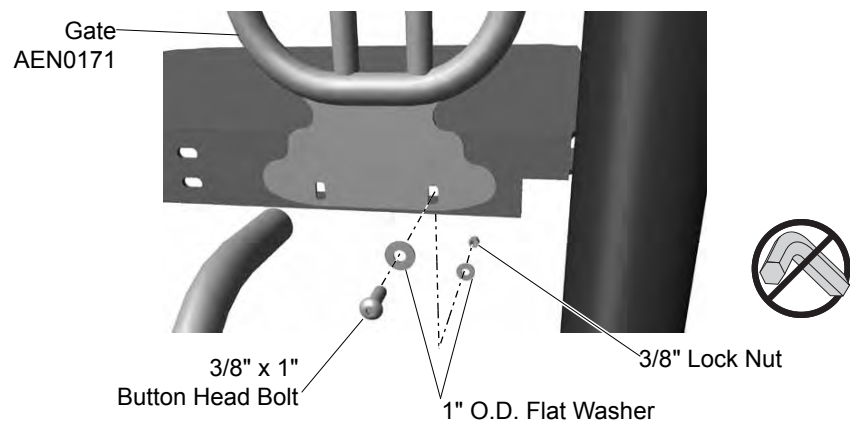


Detail A
Step 5

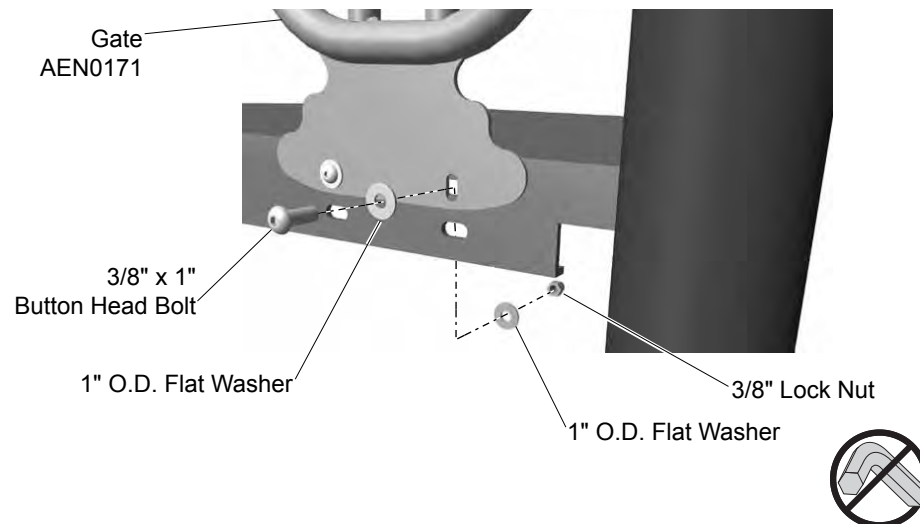


Detail B
Step 6

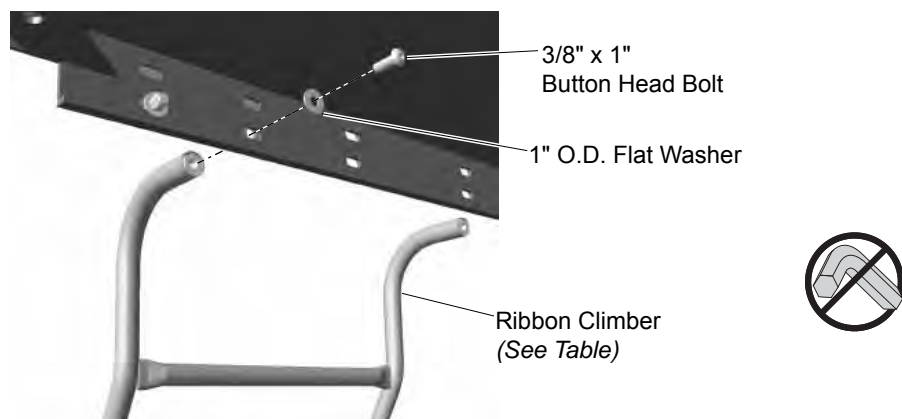
Installation Instructions



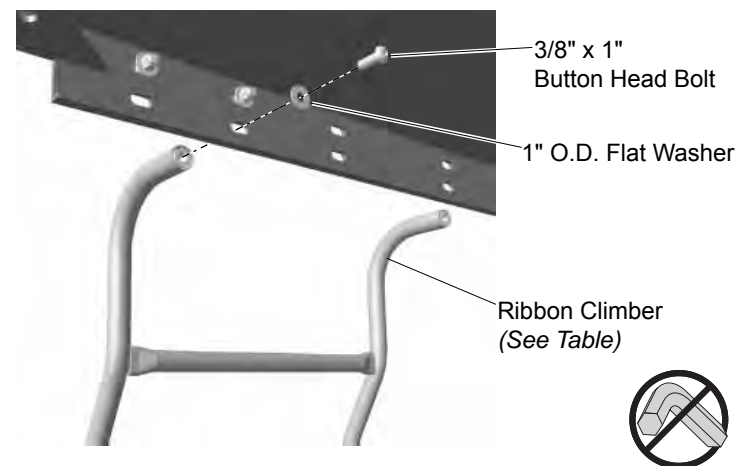
Gates in lower position



Gates in upper position

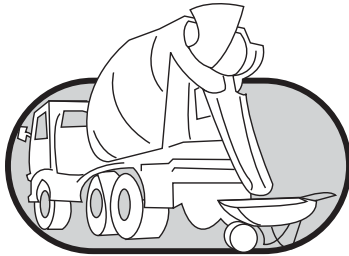


Detail C
Step 7

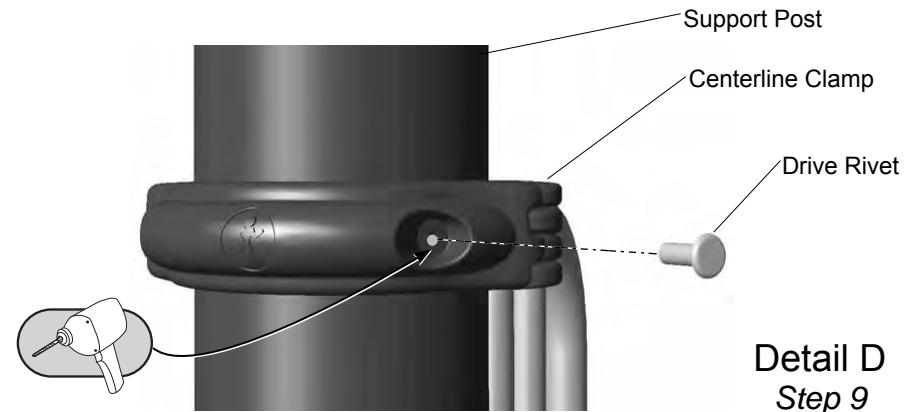


Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188

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.

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





Assembly View (representative model)

Model	Deck Height	Weight
ZZPM0296	12" (305 mm) to 24" (610 mm)	66.01 lbs. (30 kg)
ZZPM0297	36" (915 mm) to 48" (1219 mm)	74.81 lbs. (34 kg)

Installation Instructions

Playmakers® Model PM0296 and PM0297
 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

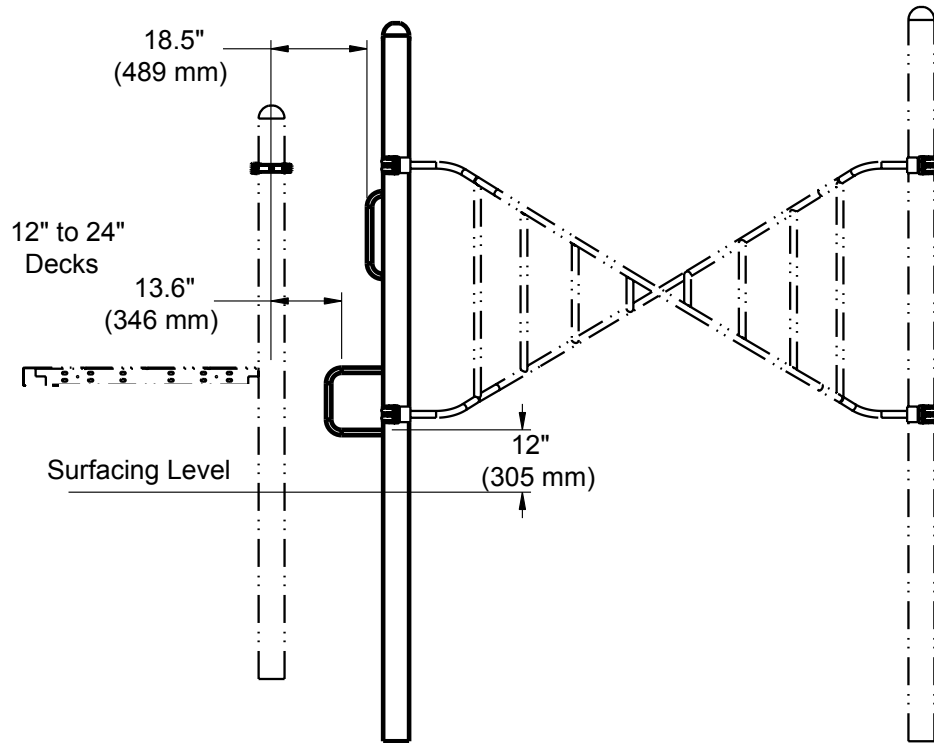
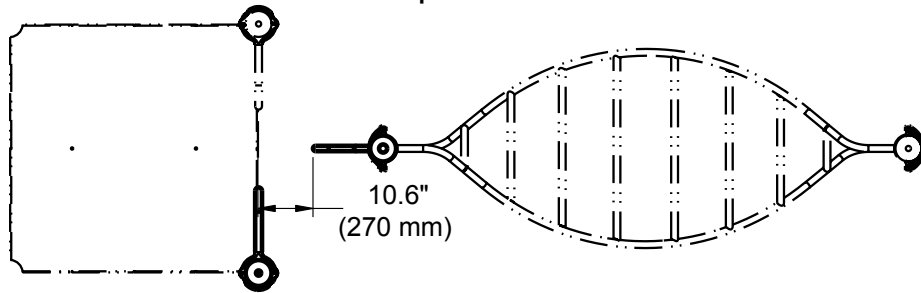
Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hour
 Weight: (refer to table)
 Concrete Required: 0.13=8 cubic yard (0,14 cubic meters)
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

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

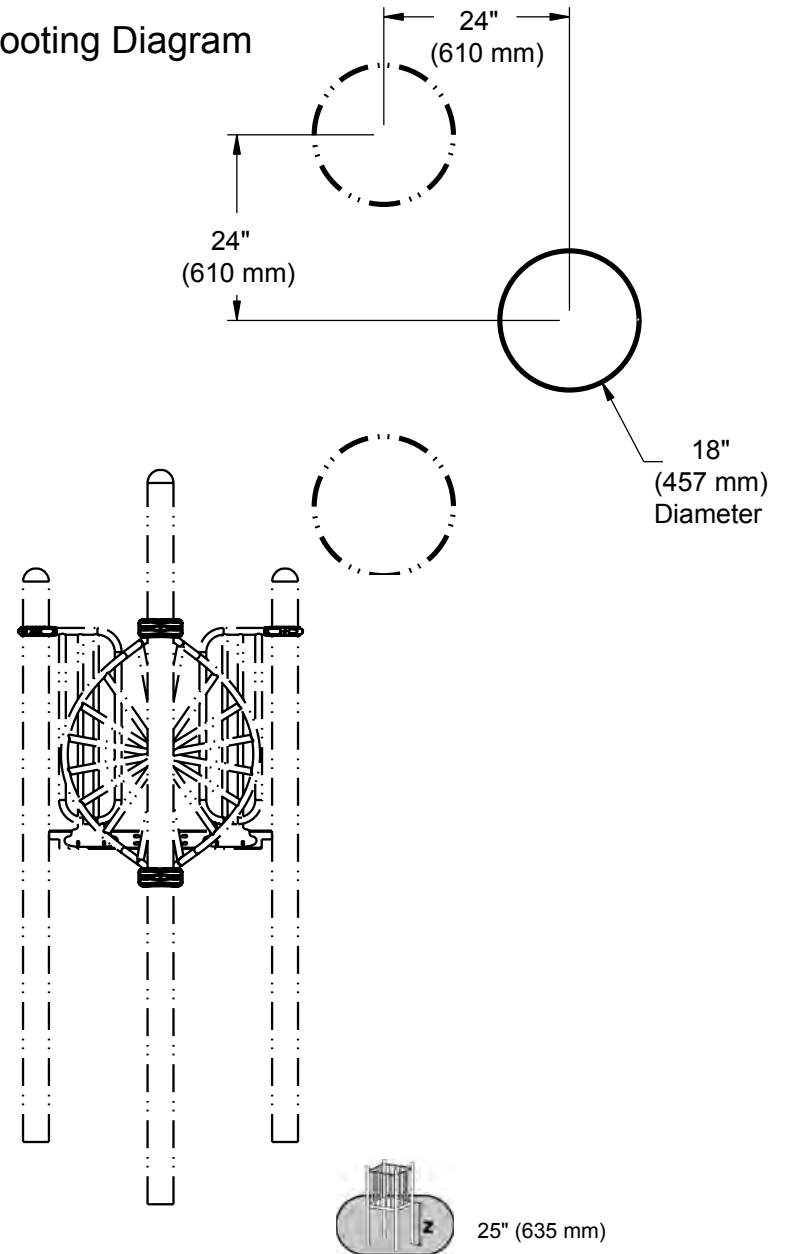
Installation Instructions

Top View



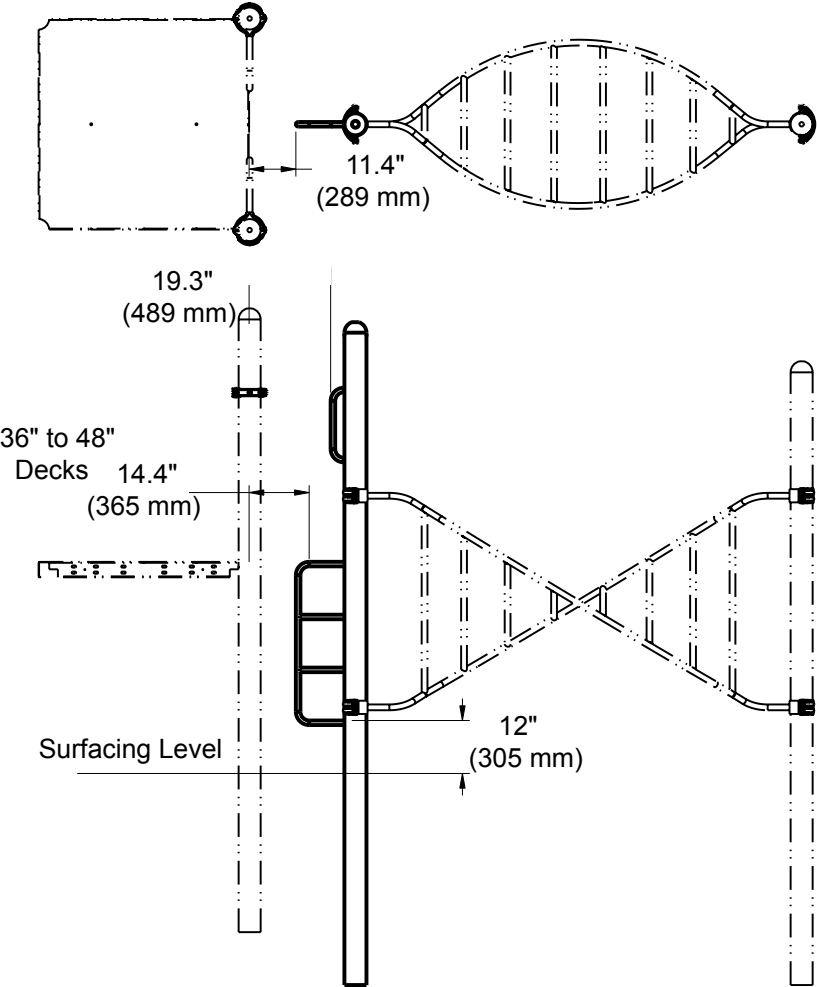
Elevation Views
ZZPM0296

Footing Diagram

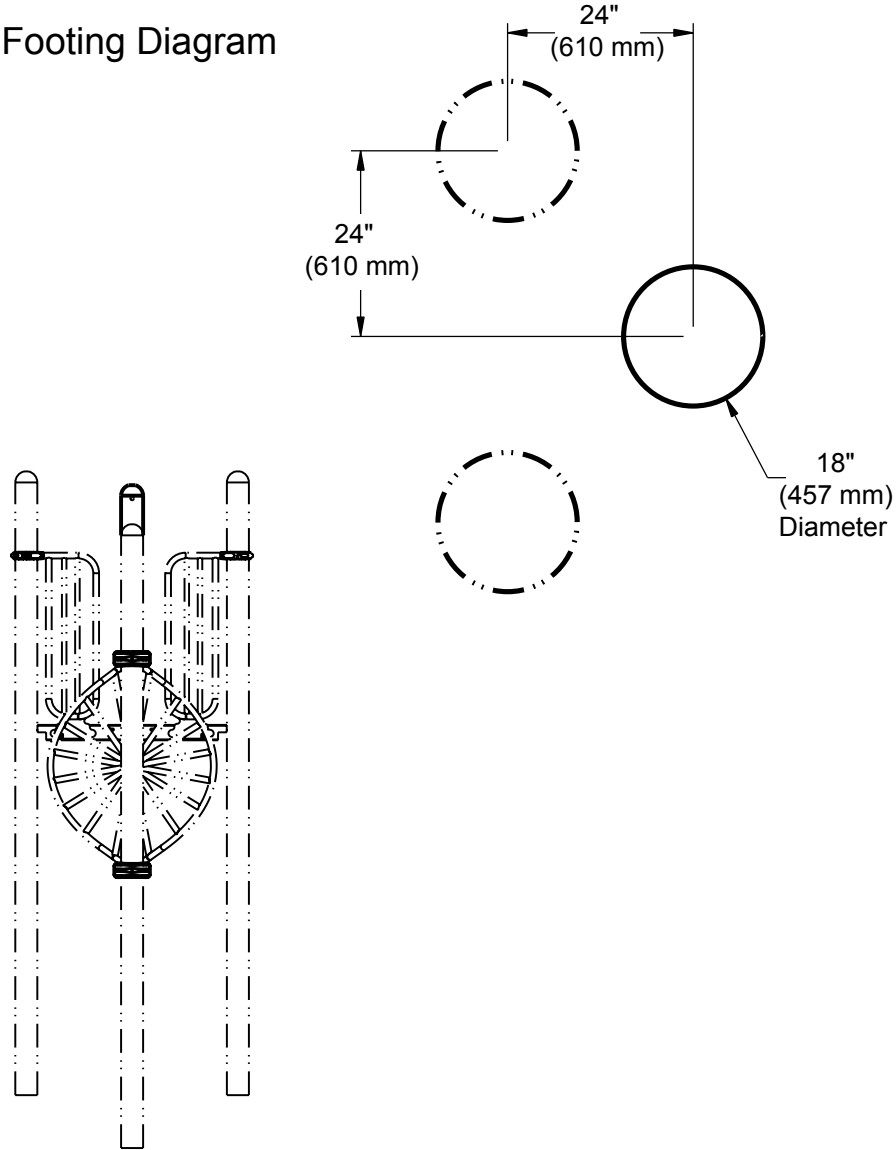


Installation Instructions

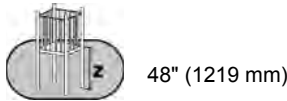
Top View



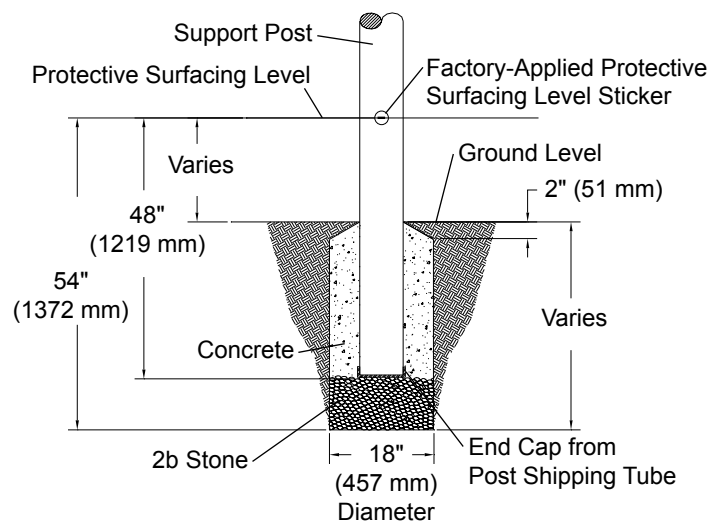
Footing Diagram



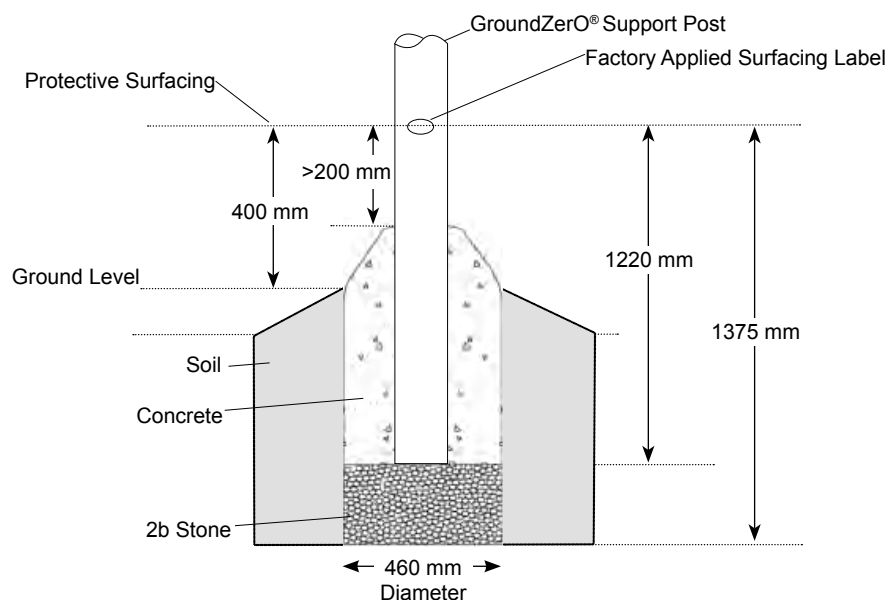
Elevation Views
ZZPM0297



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.

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 **Footings Details** on **page 4** of this document.

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.



Step 3



Detail A
Step 4



Step 5

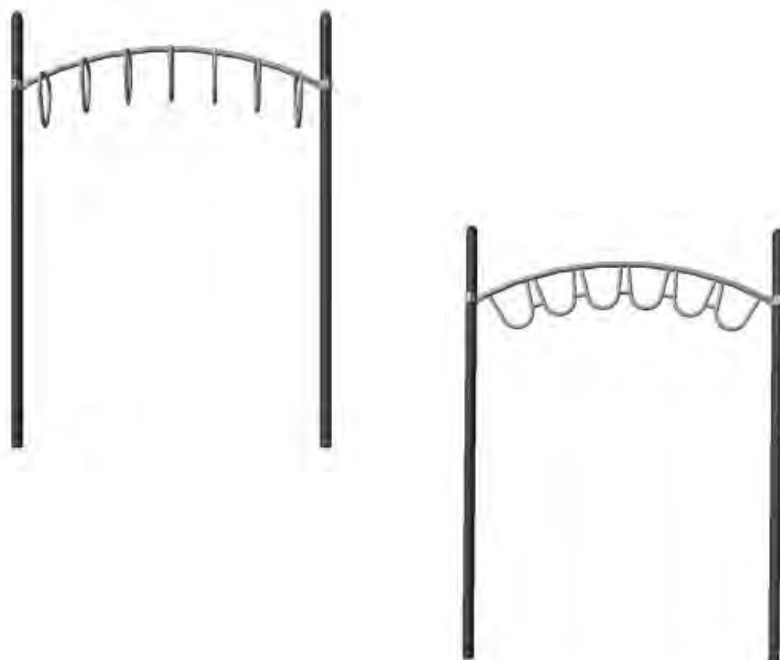
PM0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0043	POST - 5.00" O.D. x 136.00" w/CAP & LADDER (GZ)	1

PM0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0044	POST - 5.00" O.D. x 148.00" w/CAP & LADDER (GZ)	1





Assembly View (representative model)

Installation Instructions







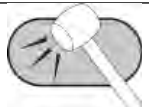
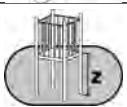
Playmakers® Models PM8450 & PM8456

The Sky Link & The Sky Arch

Installation Preparation

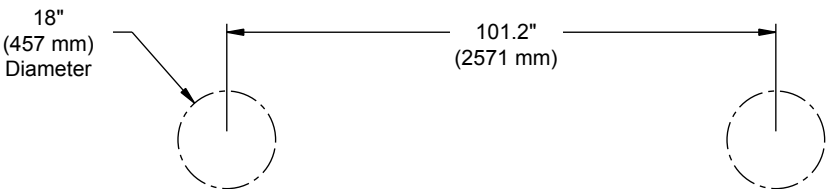
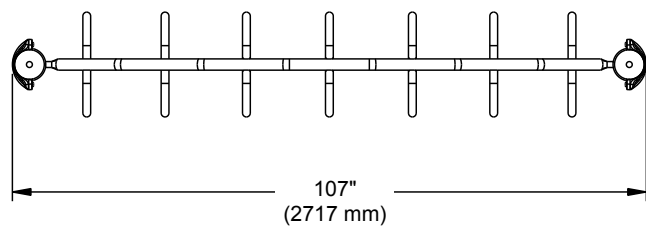
Recommended Crew: Two (2) adults
 Installation Time: 0.5 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

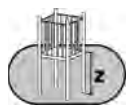
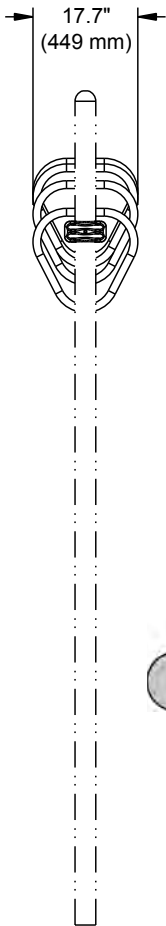
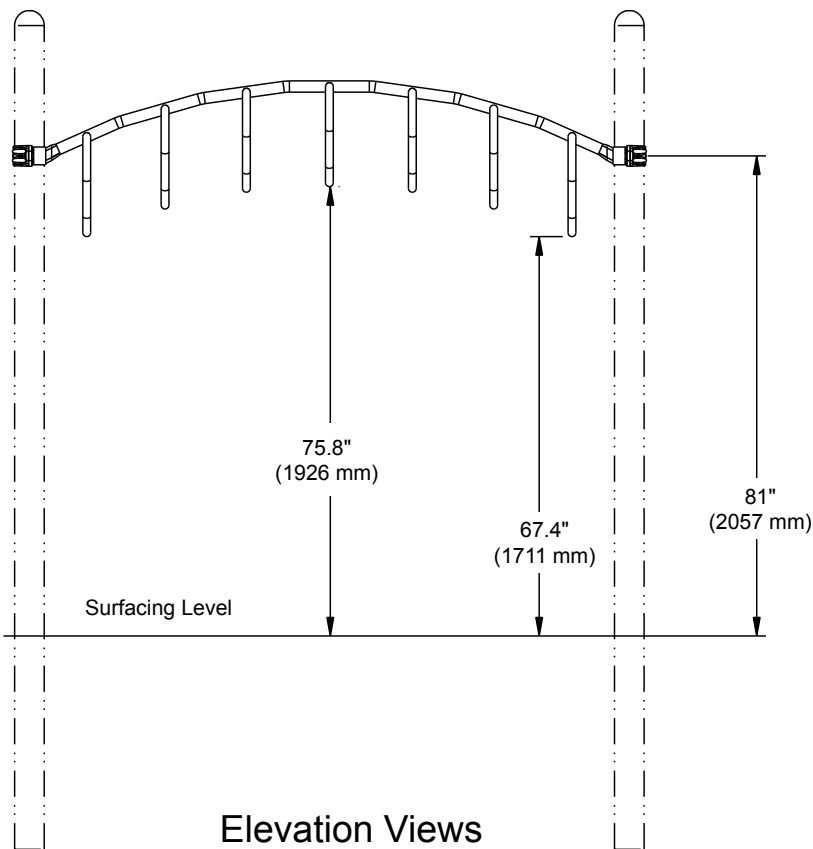
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View



Footings Diagram
Both Models



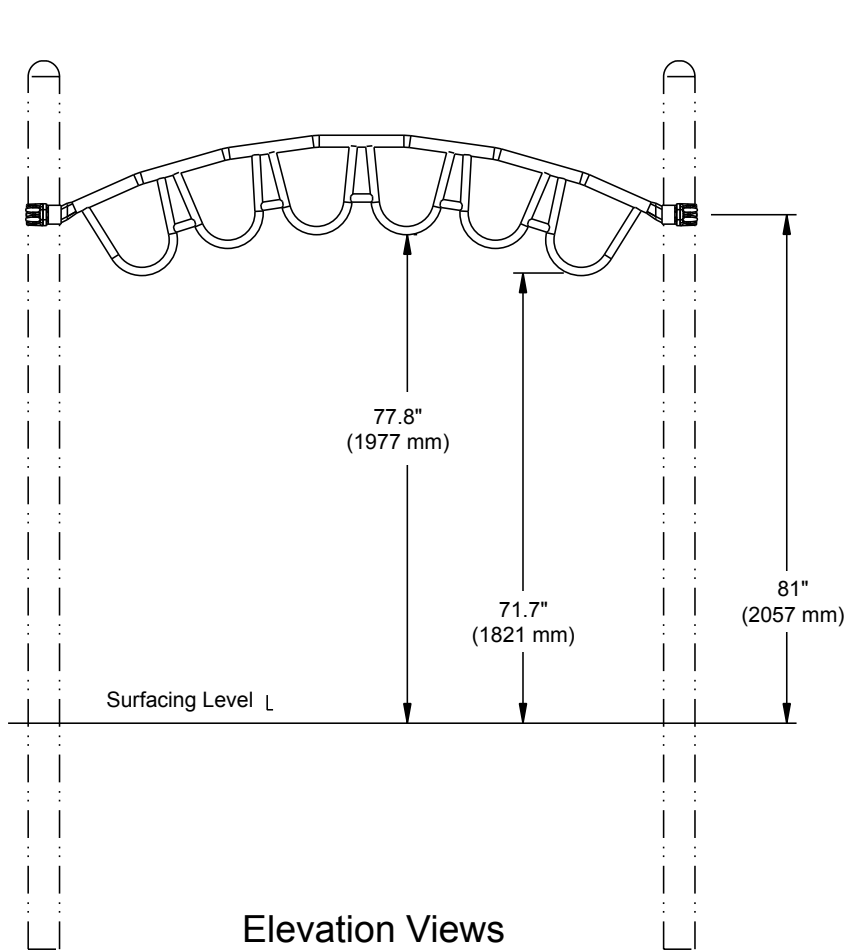
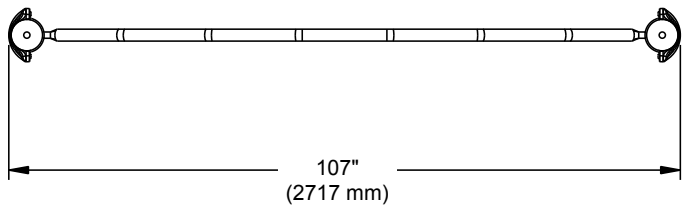
75.8" (1926 mm)

Elevation Views
ZZPM8450

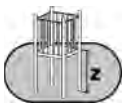
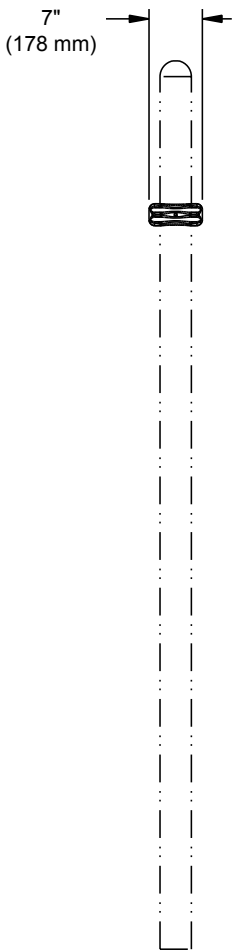


Installation Instructions

Top View



Elevation Views
ZZPM8456

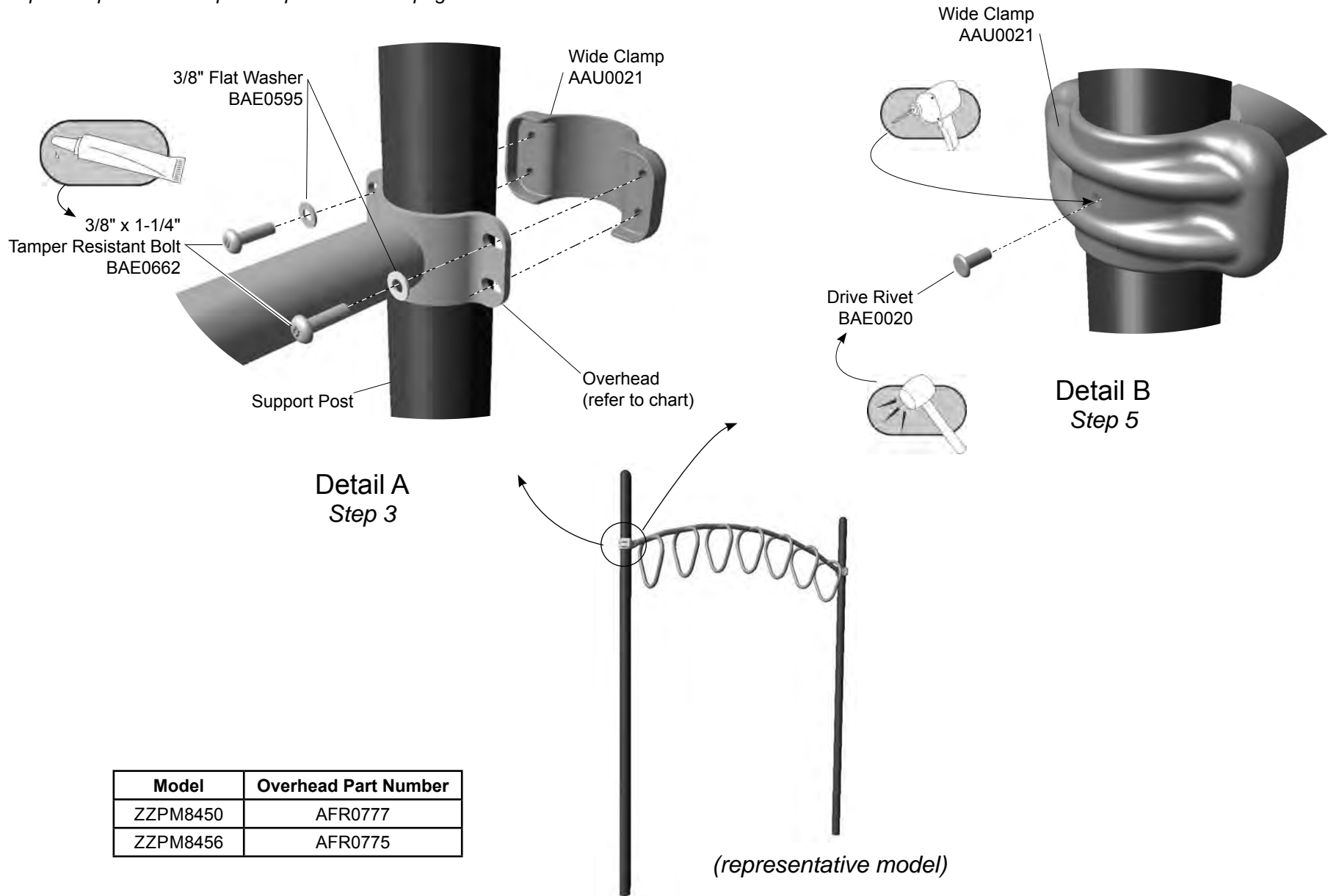


77.8" (1977 mm)



Installation Instructions

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



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




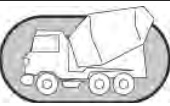



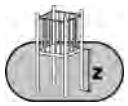
Playmakers® Model PM6590

6 ft. (1829 mm) Arch Bridge

Installation Preparation

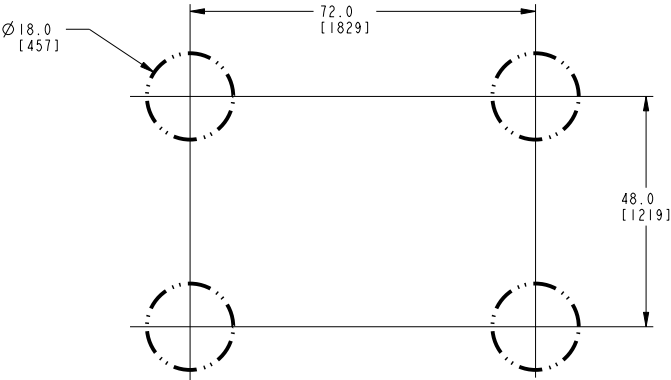
Recommended Crew: Four (4) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

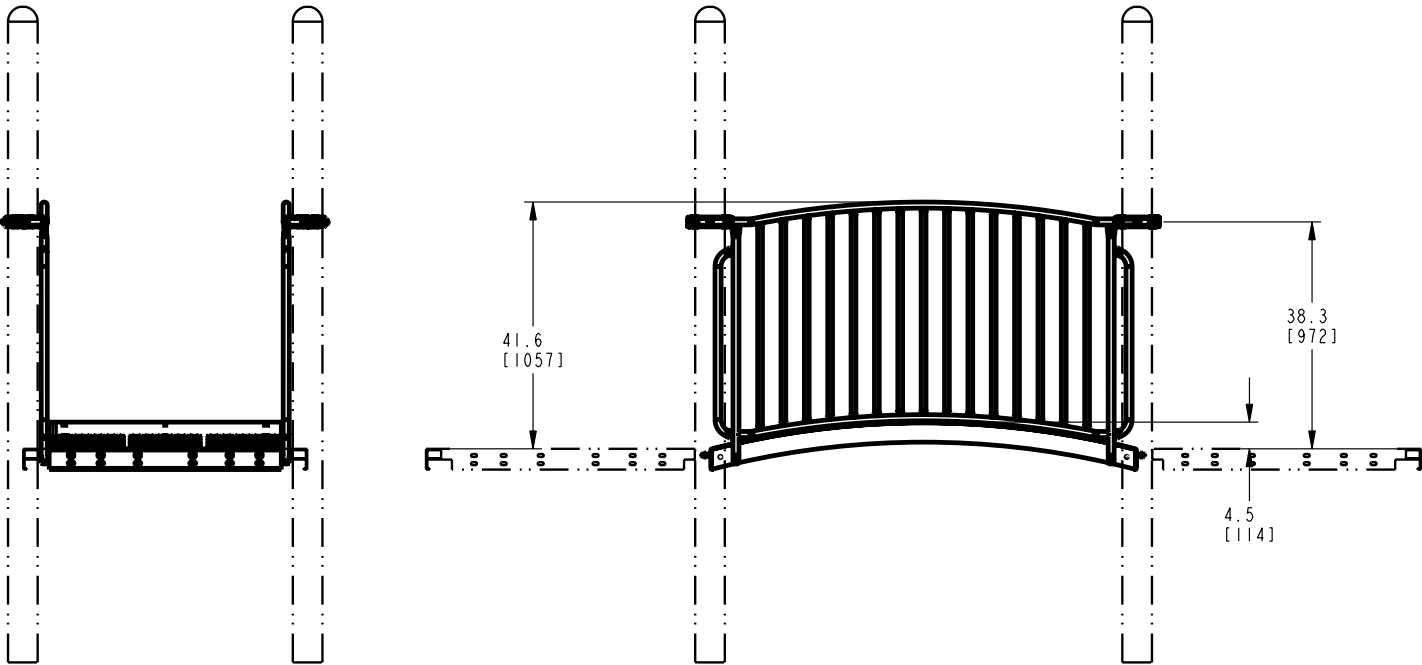
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

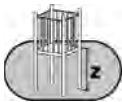
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View

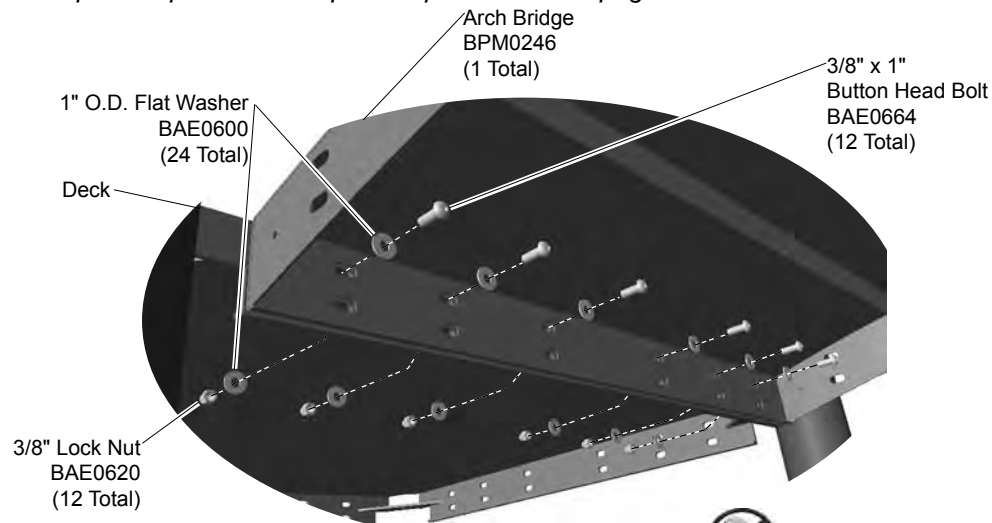


Height of the deck plus
8.5" (215 mm)



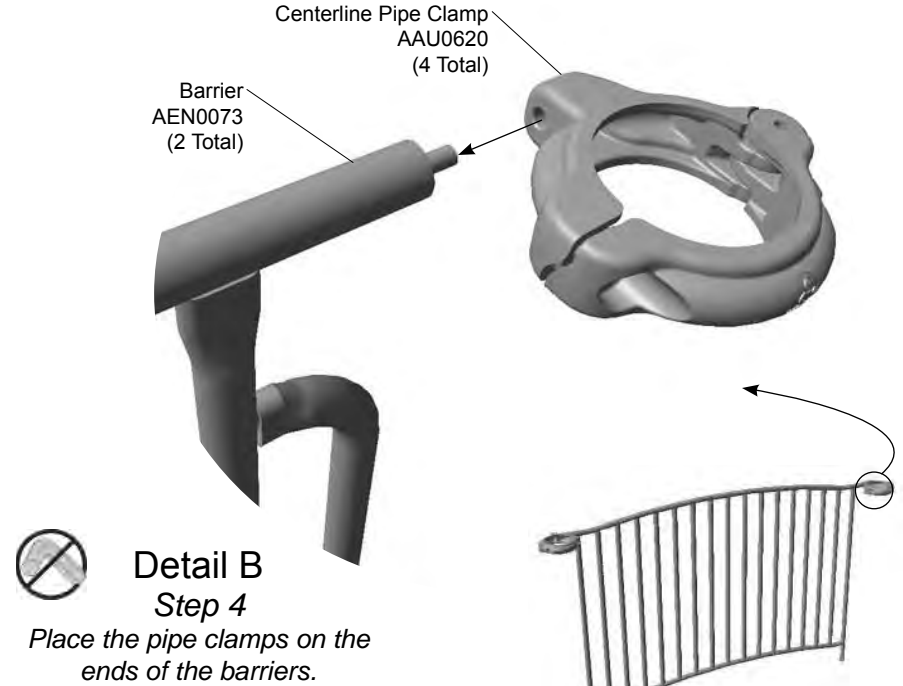
Installation Instructions

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



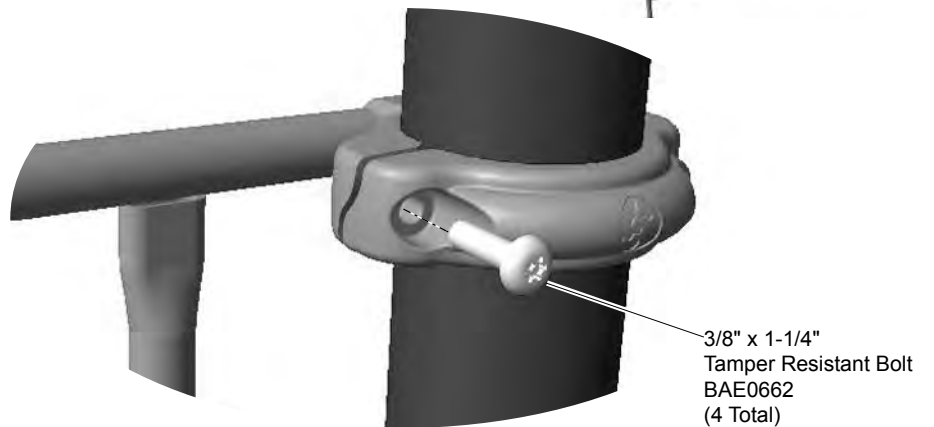
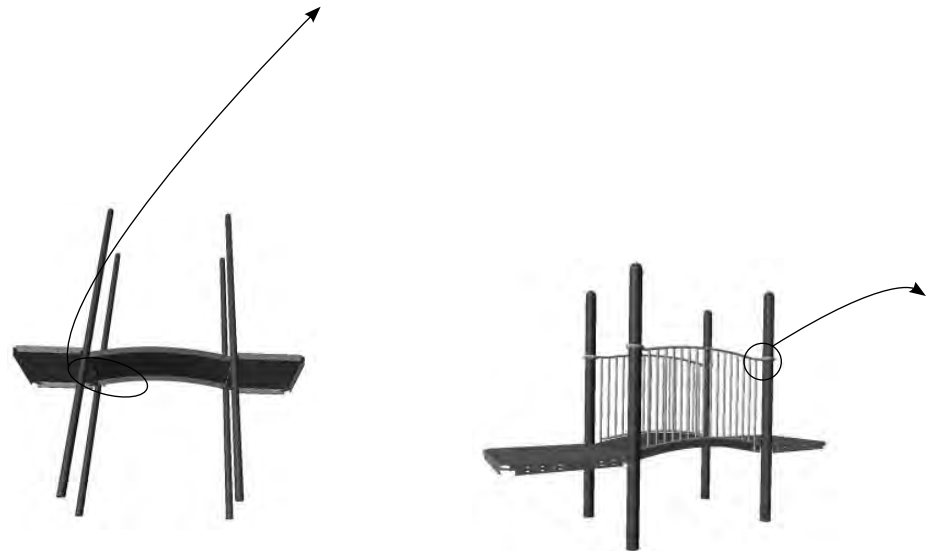
Detail A
Step 3

Attach the bridge section to the decks.



Detail B
Step 4

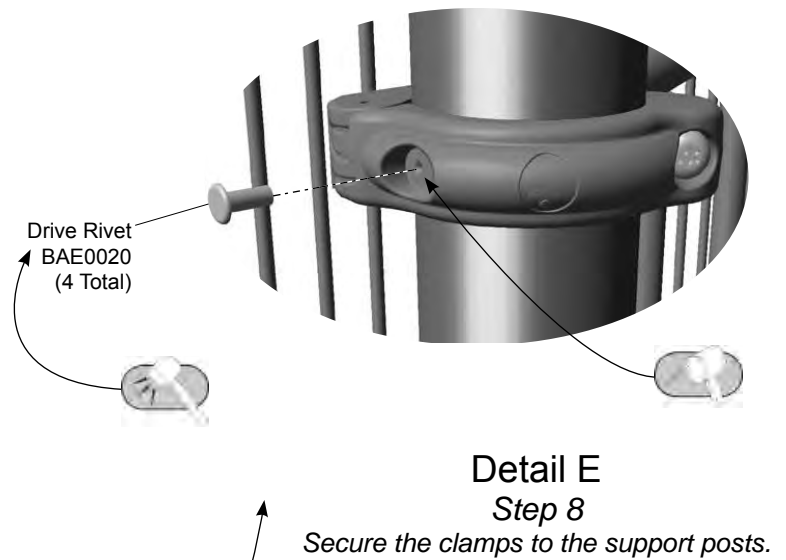
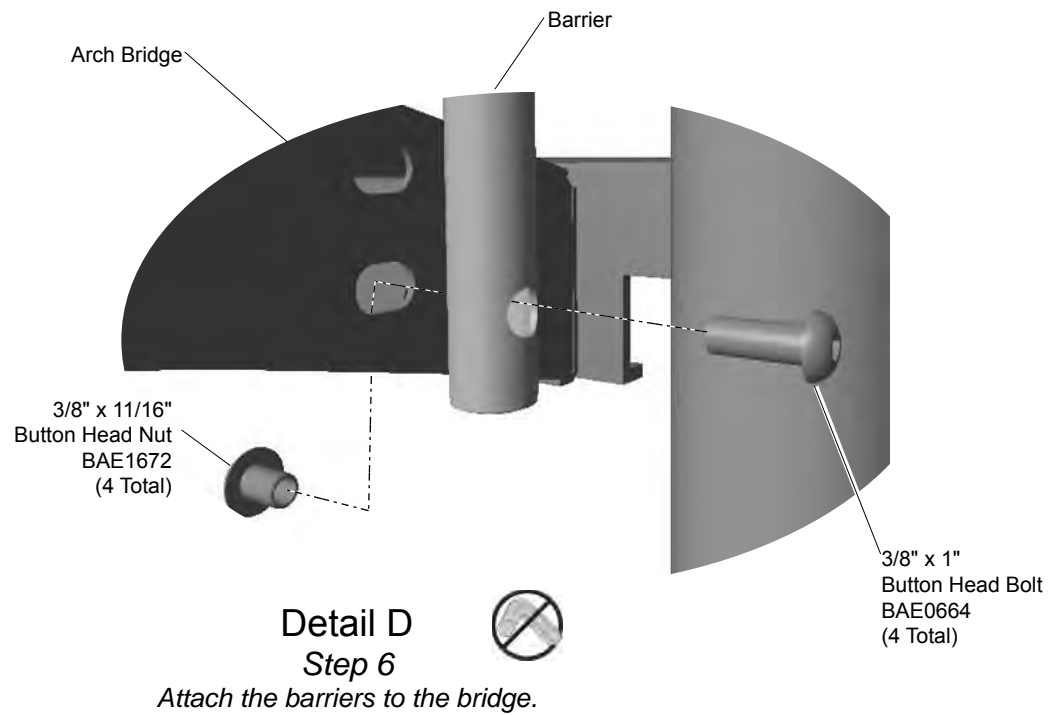
Place the pipe clamps on the ends of the barriers.



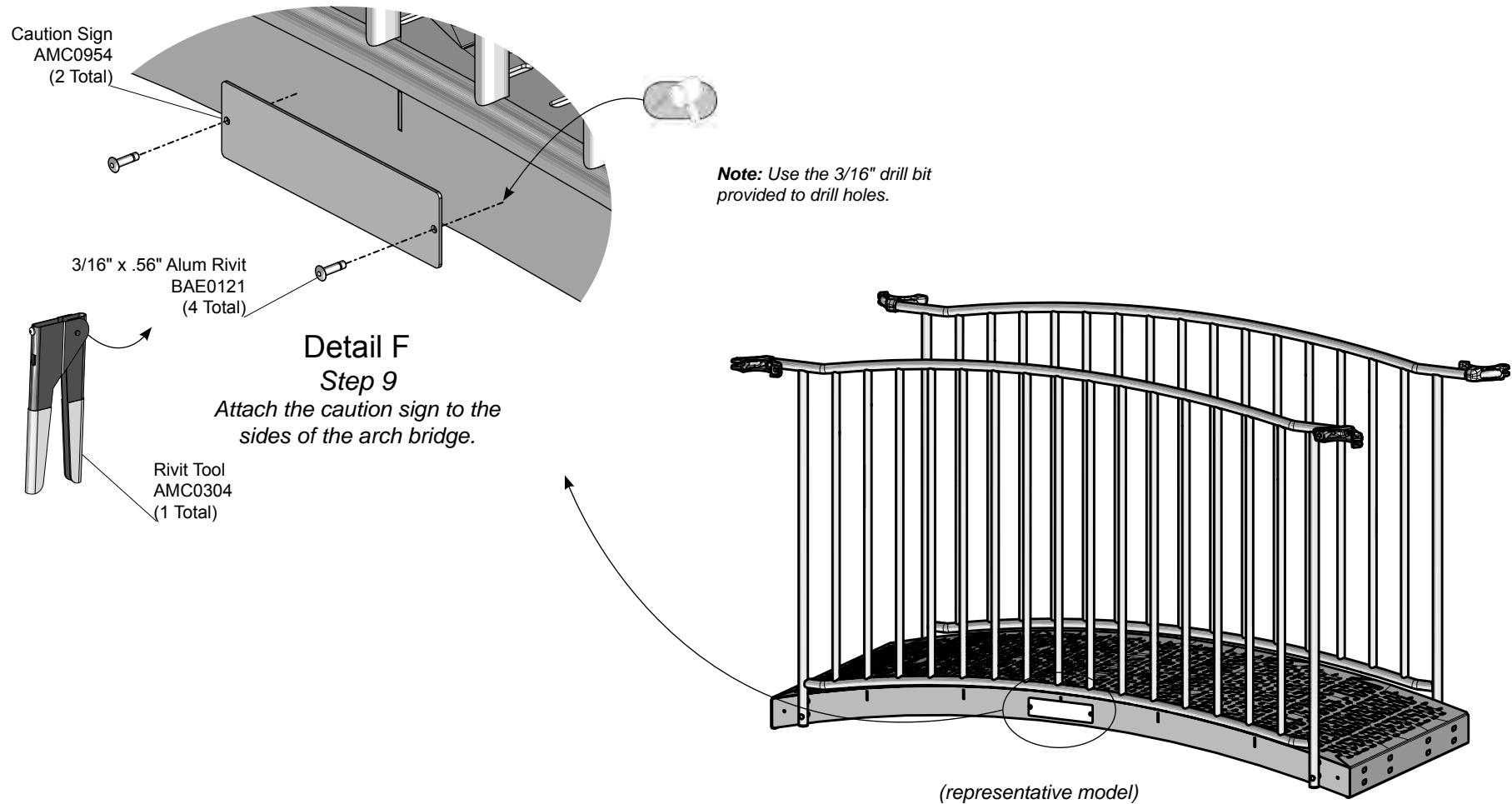
Detail C
Step 5

Attach the barriers to the support posts.

Installation Instructions



Installation Instructions



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: Attach the caution sign to the sides of the arch bridge. See **Detail F**. Using the caution sign as a template, position the caution sign against the side of the arch bridge, using the drill bit provided, drill two holes on each side of the bridge. Attach the sign as shown.

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.

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
ASY0439	KIT - CAUTION - WATCH YOUR HEAD SIGN	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0954	SIGN - CAUTION WATCH YOUR HEAD	2
BAE0121	RIVIT - 3/16" x .56" ALM POP (.251-.375 GRIP RANGE)	4
BAE0181	SCREW - #8 x 1/2" PAN HEAD PHILLIPS	4
BAE1668	MISC - 3/16" DRILL BIT	1



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Clamps

- Inspect clamps to insure they are properly secured to the support posts.
- 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.
- 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.

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 Playmakers® Model PM4409 Accessible Bell Panel



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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 plastic parts for damage.	Medium			
Inspect clamps for tightness and damage.	High			
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

Installation Instructions







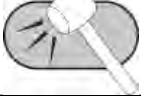
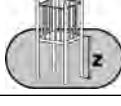
Playmakers® Model PM4646

Storefront Panel

Installation Preparation

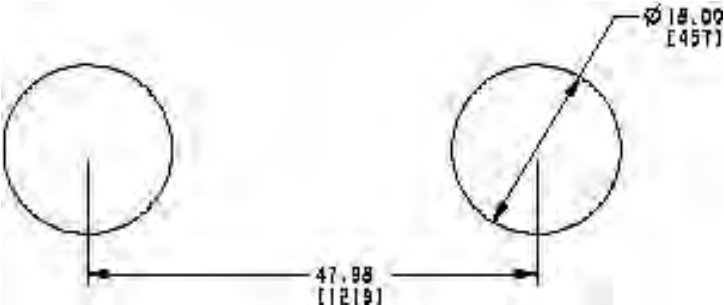
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

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

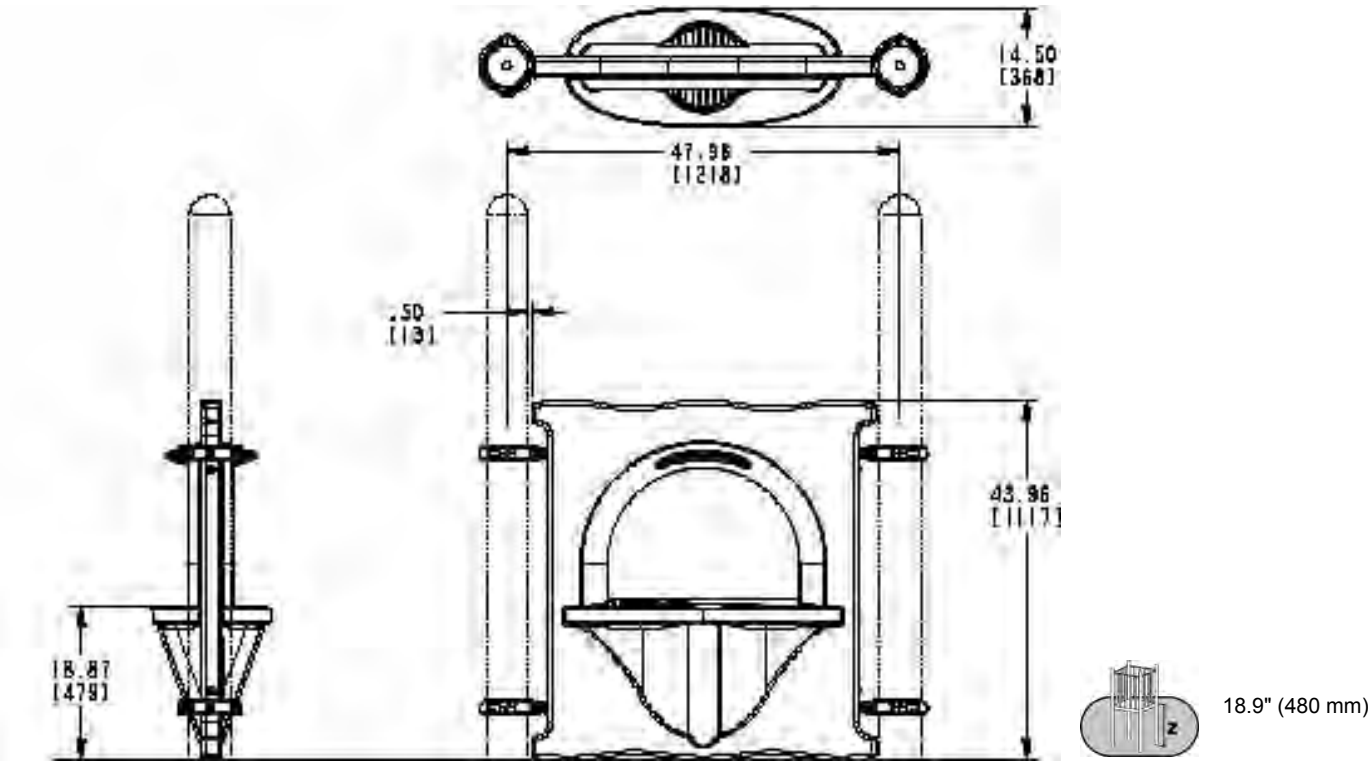
Installation Instructions

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



Footing Diagram

Top View

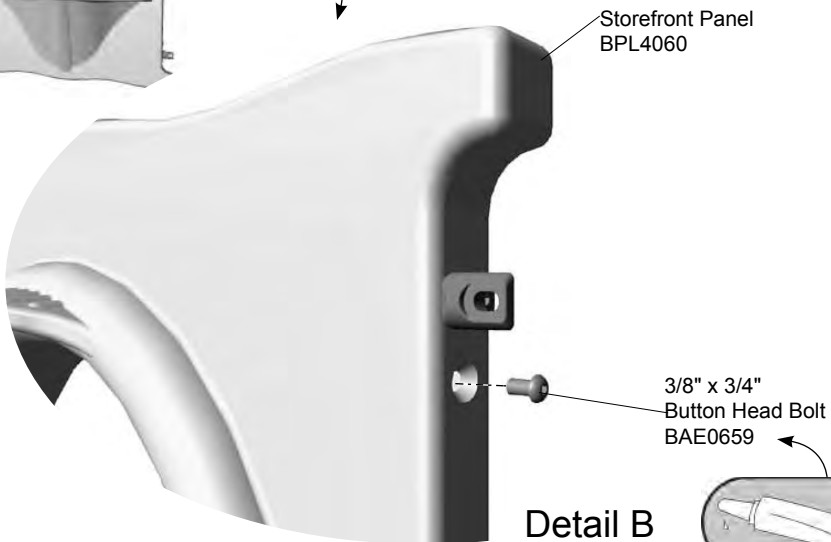
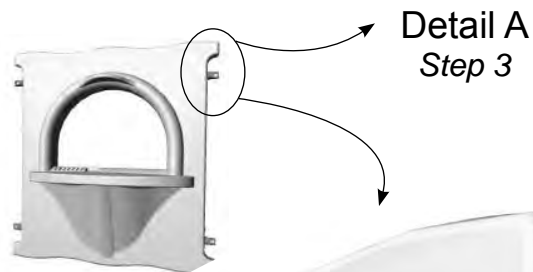
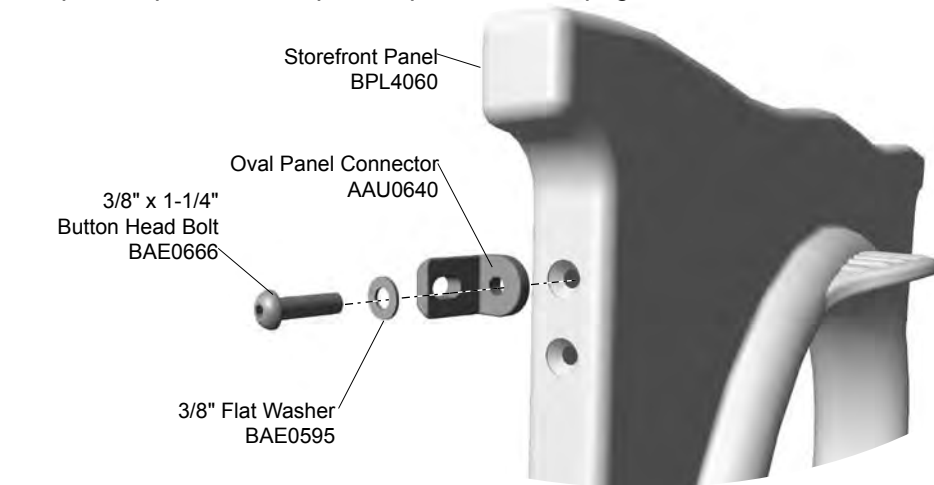


Elevation Views

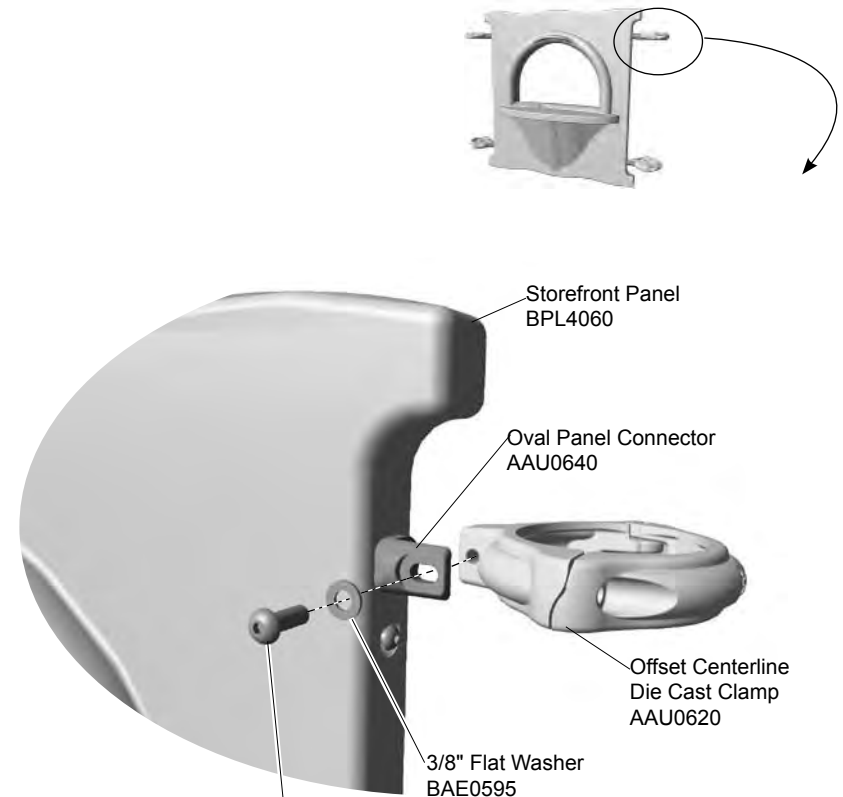


Installation Instructions

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



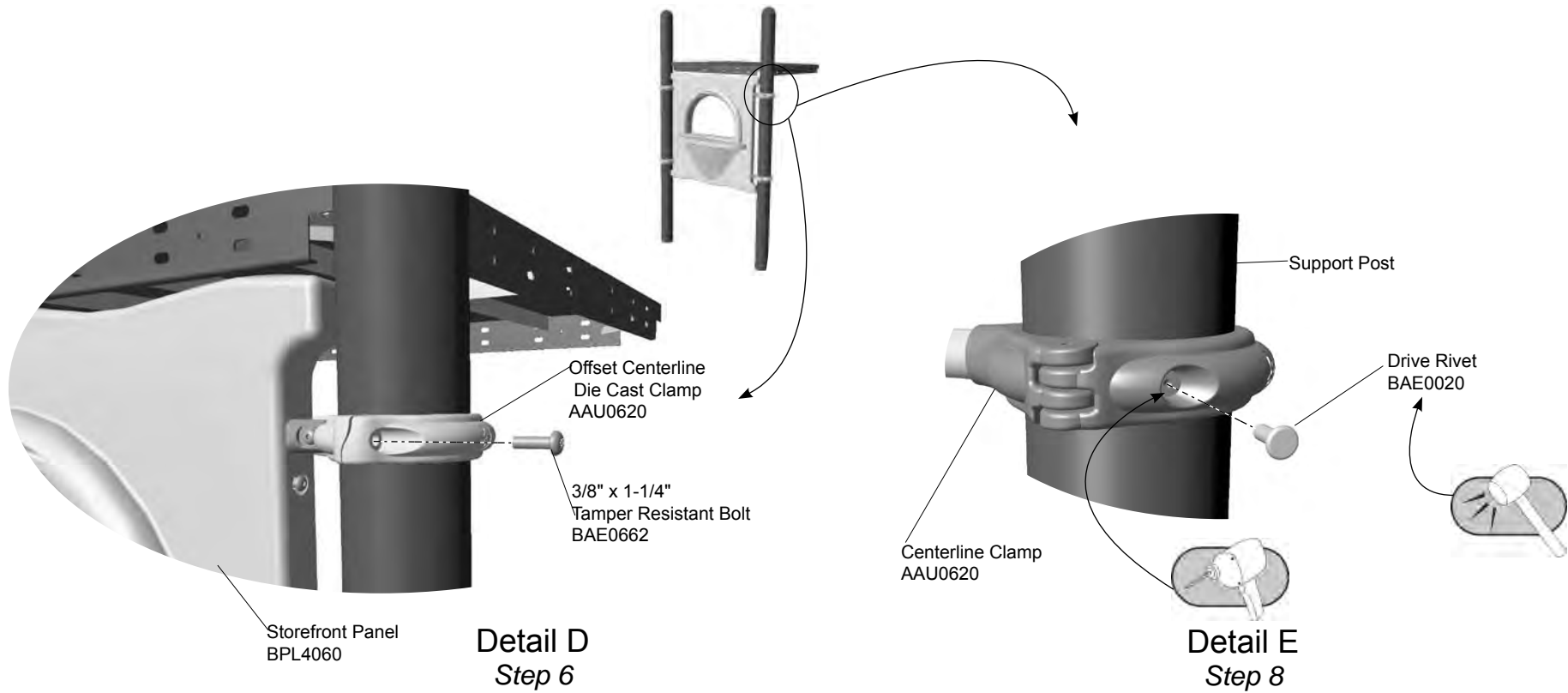
Detail B
Step 4



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 PM9858





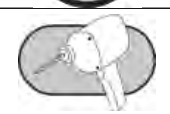

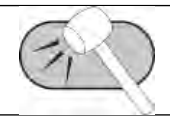
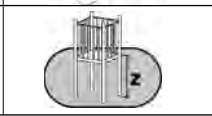
Hex Cabana Roof

Installation Preparation

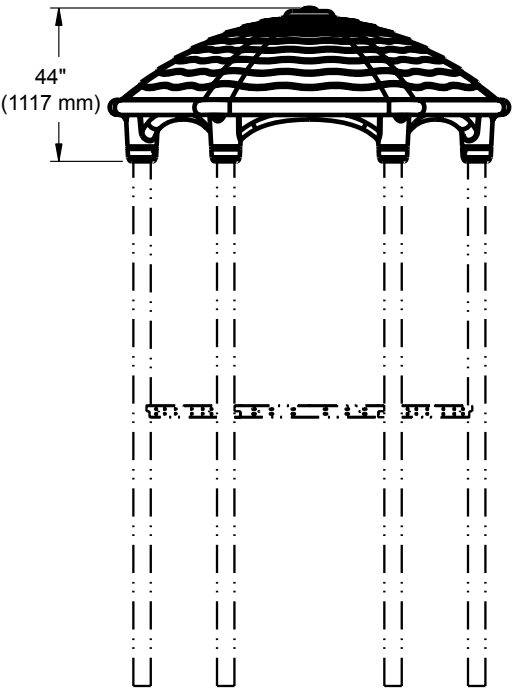
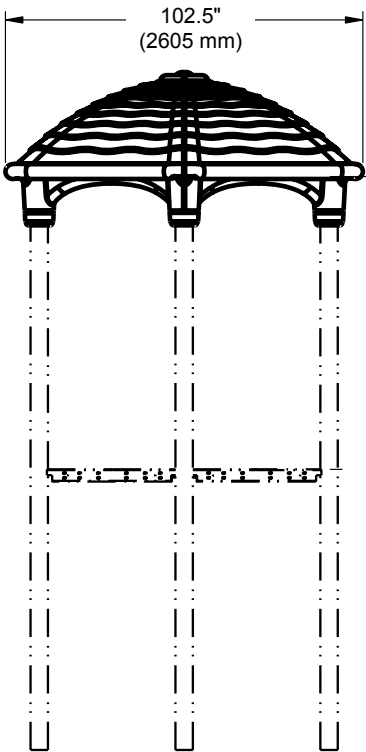
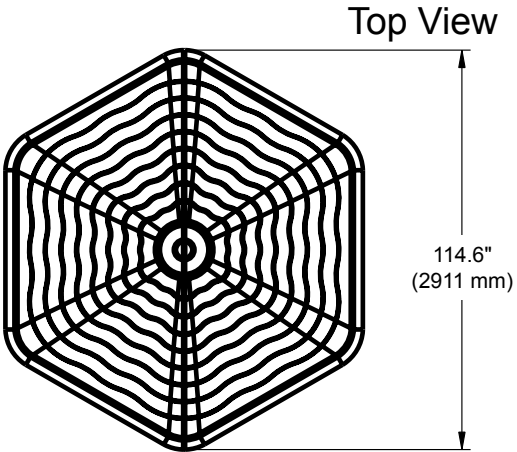
Recommended Crew: Two (2) adults

Installation Time: 1 man-hour

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

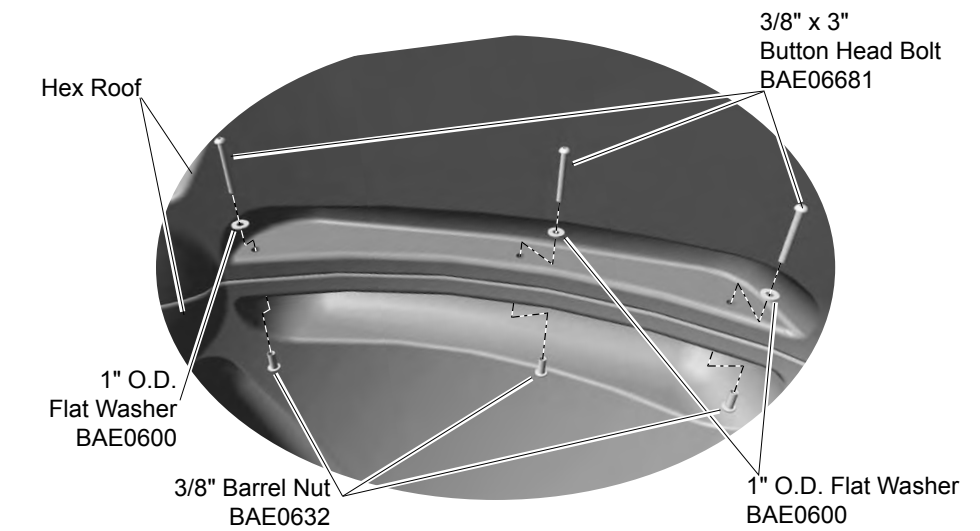
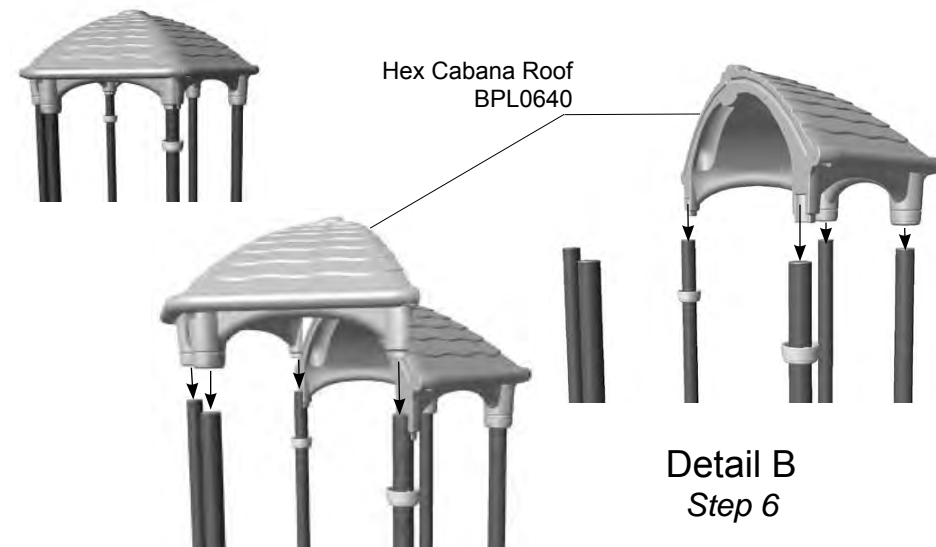
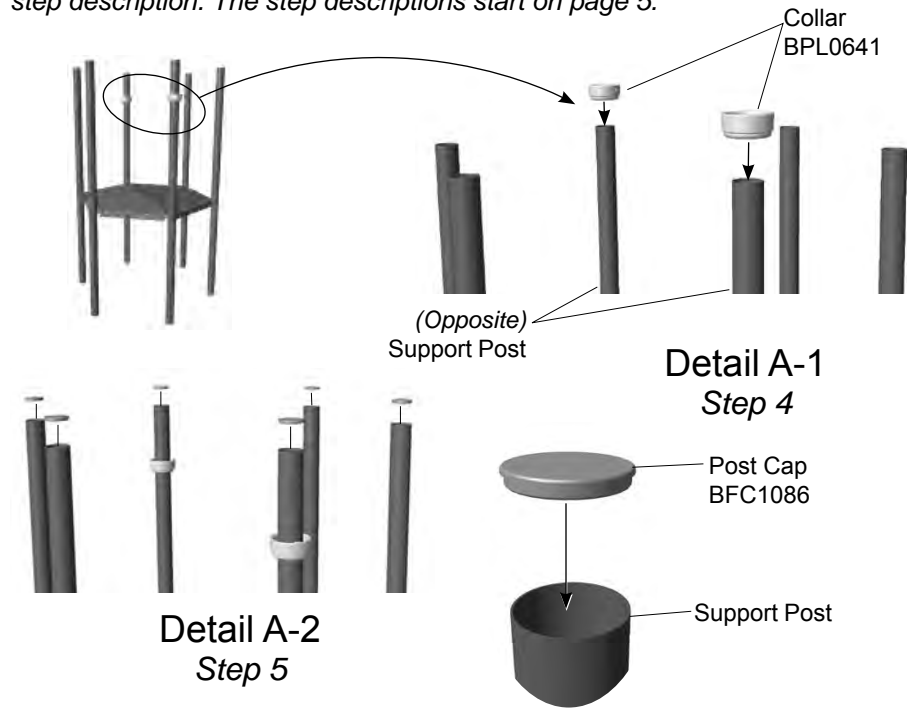
Installation Instructions



Elevation Views

Installation Instructions

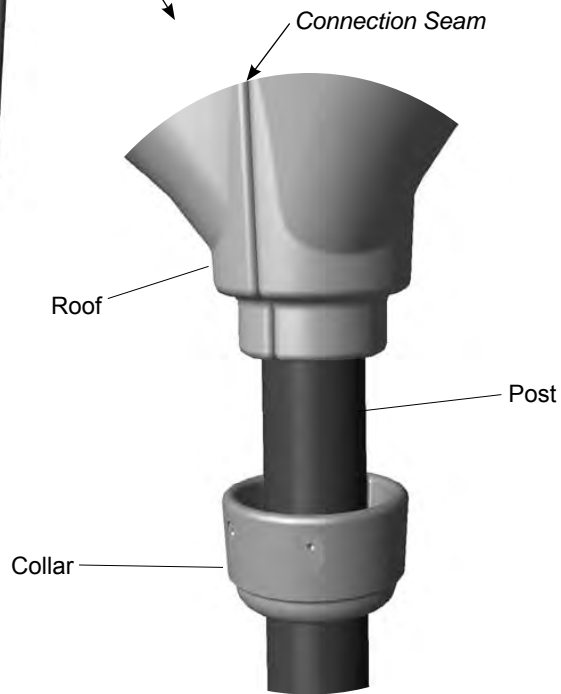
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



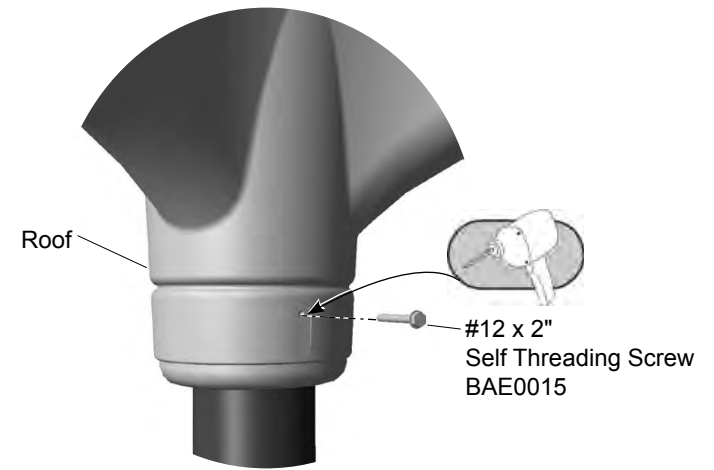
Installation Instructions



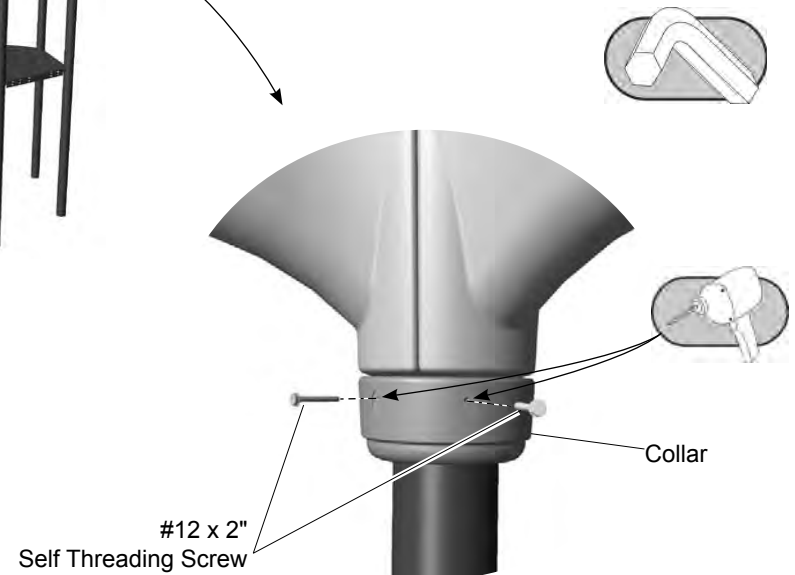
Step 9



Detail E
Step 10



Detail F-1
Step 11



Detail F-2
Step 11

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. (A pair of C-clamps or locking clamps make installation easier)

Step 3: Level the supporting deck and plumb the support posts.

Step 4: Place the collars onto opposite support posts. See **Detail A**. Select both collars, and slide them over the opposite support posts. They will serve to help lock the halves together.

Step 5: Place the post caps into the top of each post. See **Detail A-2**. Select (6) six post caps. Place them in the top of each post as shown.

Step 6: Place the roof onto the support posts. See **Detail B**. Select both halves of the hex cabana roof. Place each half onto the support posts as shown. The connection seam should be over the posts with the collars. Fully seat the roof on the posts.

Hint: Clamp the outside ends to make the hardware connections easier.

Step 7: Bolt the roof halves together. See **Detail C**. Select the appropriate hardware. There are (6) six connections across the inside of the roof. Attach as shown.

Step 8: Bolt the outside edges of the roof. See **Detail D**. Select the appropriate hardware. Unclamp the halves and make the outside connections as shown.

Final Details.

Step 9: Level the roof. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Slide collars up over the mating roof pieces. See **Detail E**. Turn the collars so that the indentations (for the screws) are facing the center of the deck, for ease of attachment.

Step 11: Screw the collars and roof to the posts. See **Details F-1 and F-2**. Drill a pilot hole using a 1/8" drill bit at each of the indentations on the collars and roof stubs. There are (2) two locations on the collars and one each on the roof stubs. Attach as shown. Fully tighten the screws.

PM9858 - HEX CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 2"	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC1086	SHEET- 5.00" x .75" PIPE PLUG	6
BPL0640	ROOF - PM HEX CABANA	2
BPL0641	PM CABANA RING	2



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Assembly View (representative model)

Installation Instructions








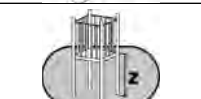
Playmakers®

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

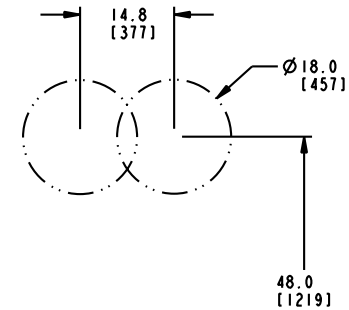
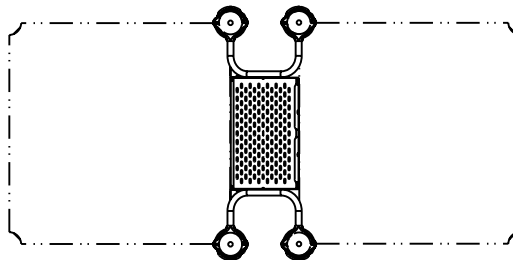
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	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

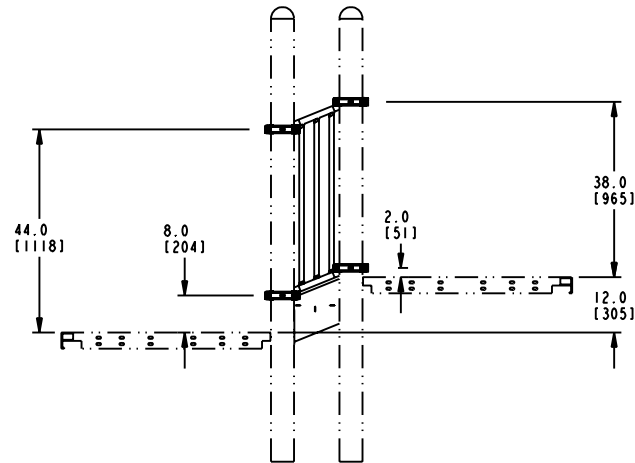
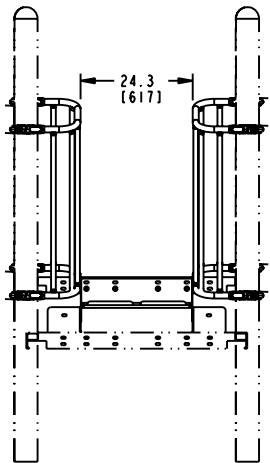
KEY

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

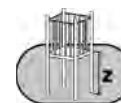
Top View



Footing Diagram



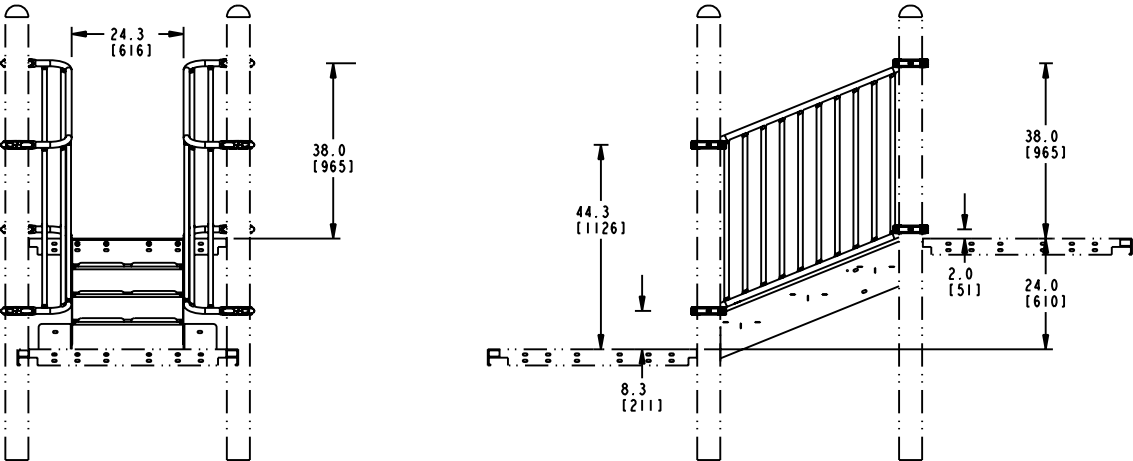
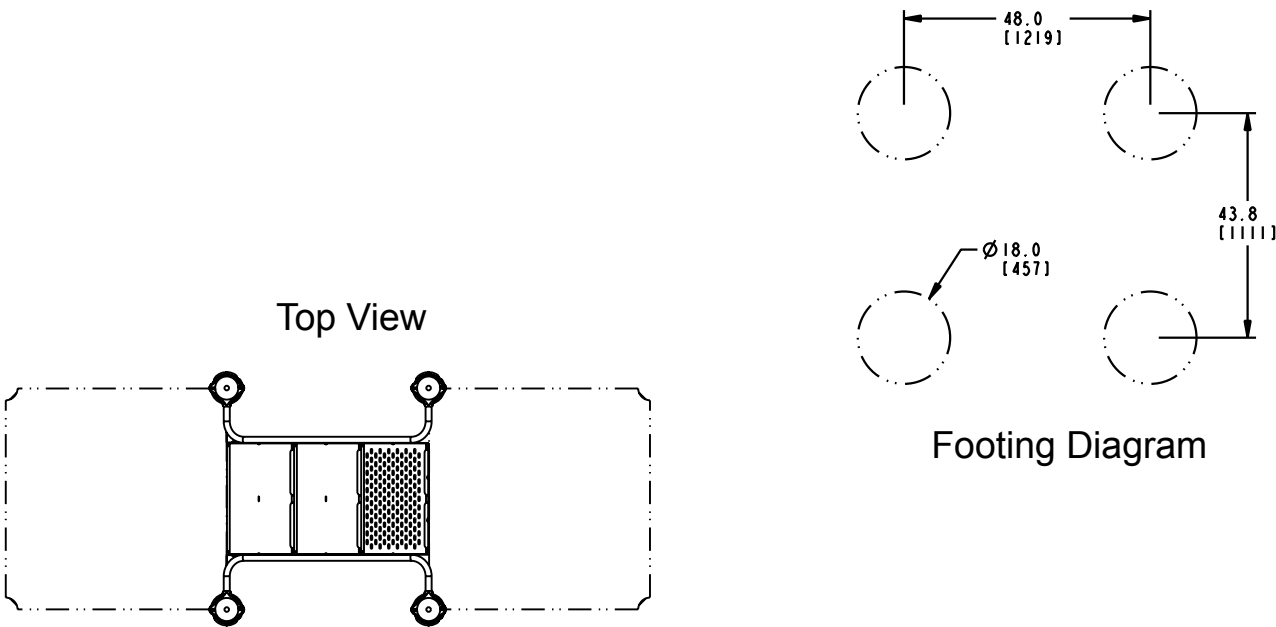
Elevation Views
PM9168



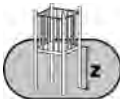
Height of the upper deck
minus 6" (152 mm)

Installation Instructions

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



Elevation Views
PM9170



Height of the upper deck
minus 6" (152 mm)

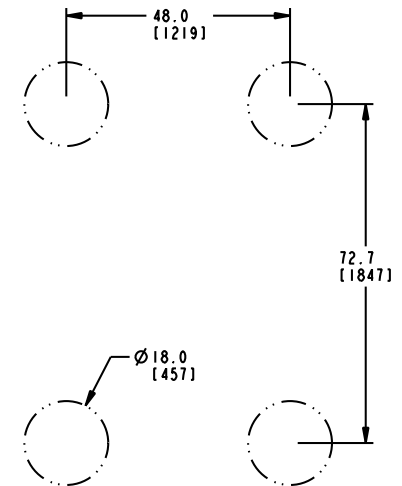
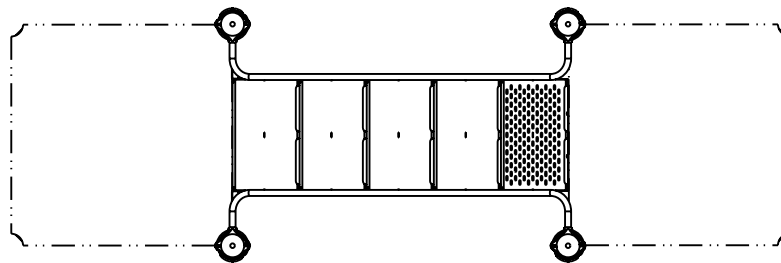


Installation Instructions

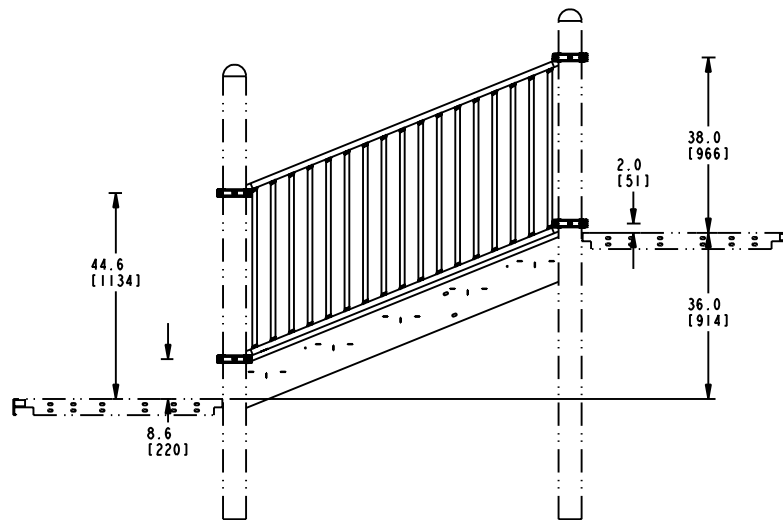
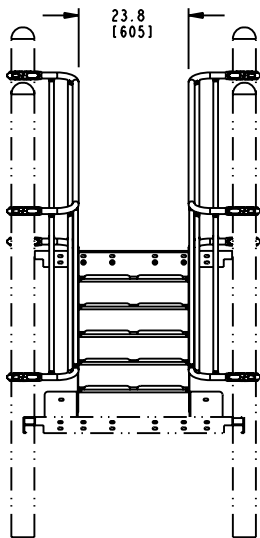
KEY

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

Top View



Footing Diagram



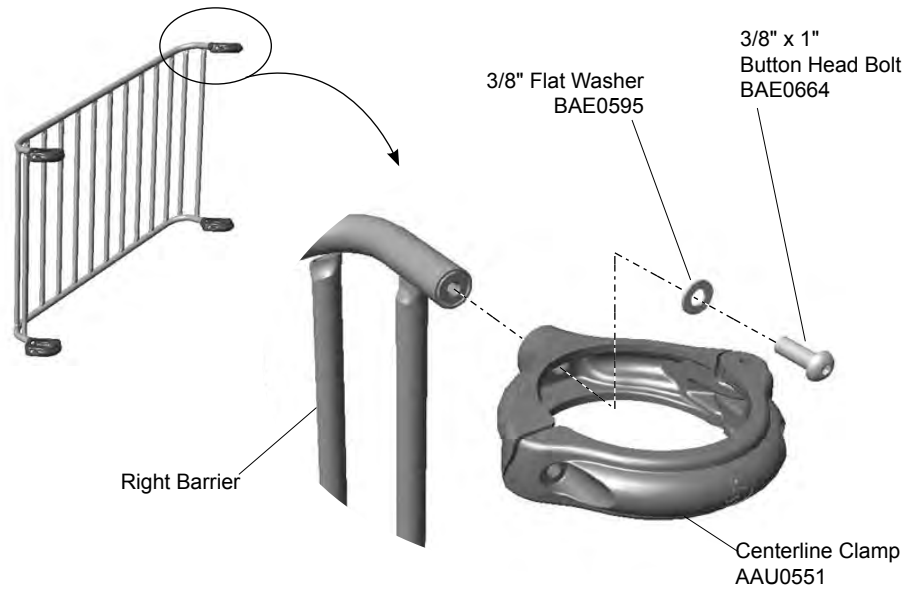
Elevation Views
PM9177



Height of the upper deck
minus 6" (152 mm)

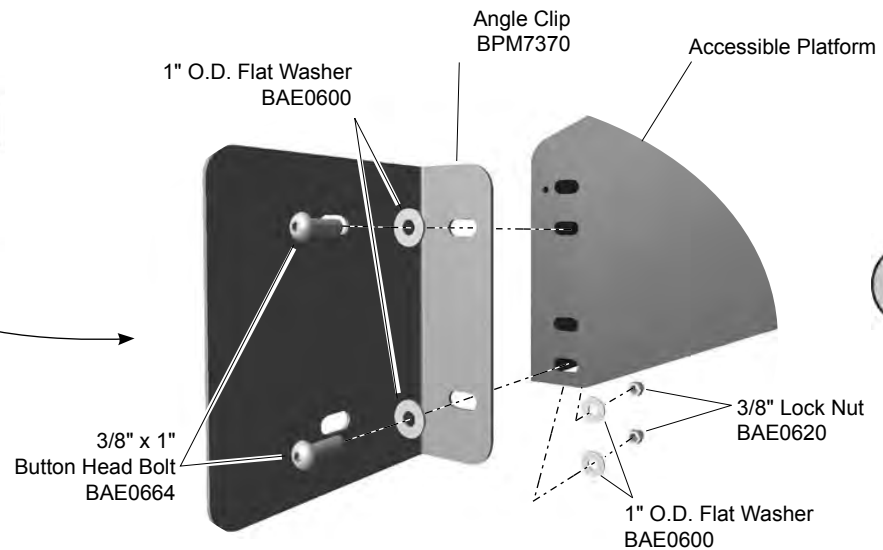
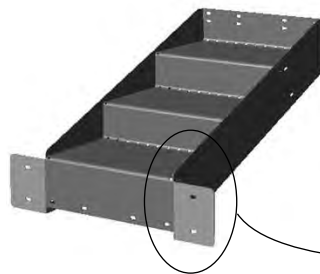
Installation Instructions

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

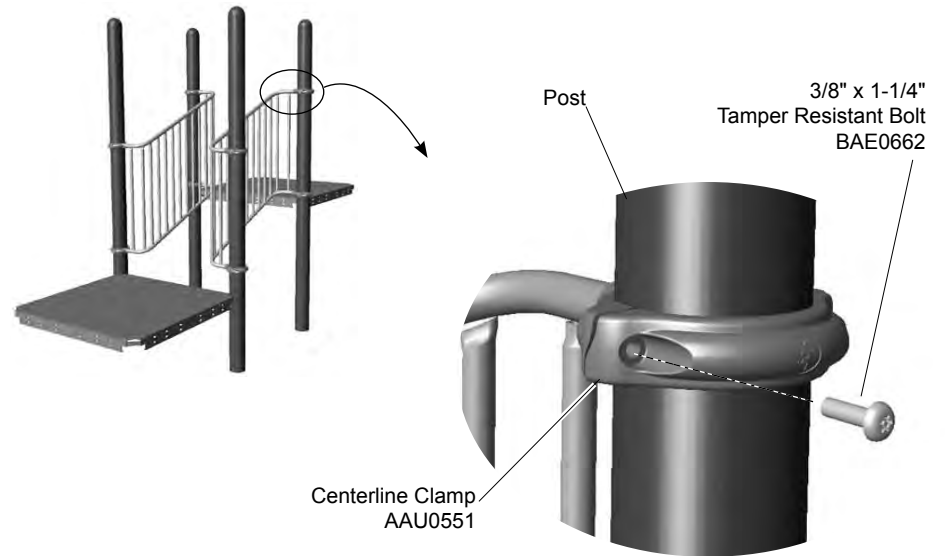
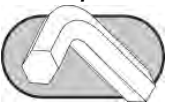


Detail A
Step 4

The front of angle clip should be even with the face of the platform



Detail C
Step 6

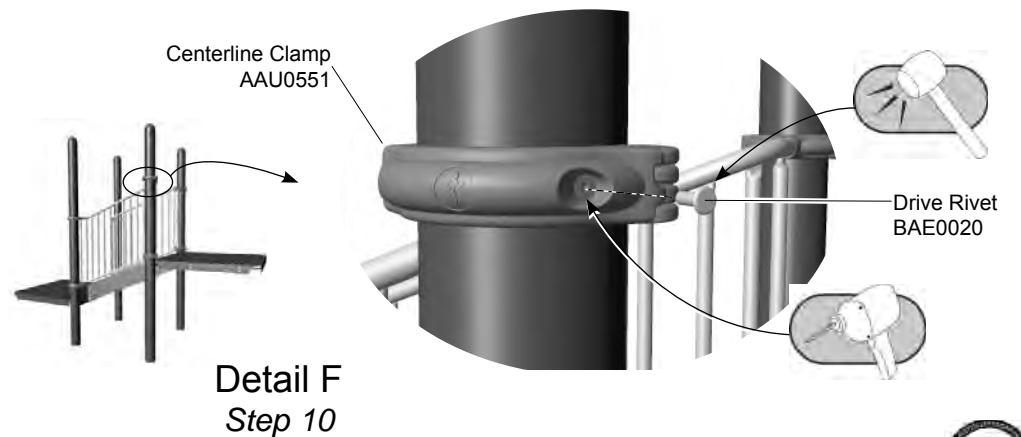
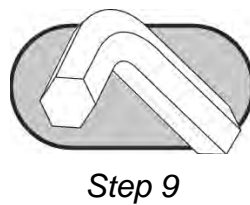
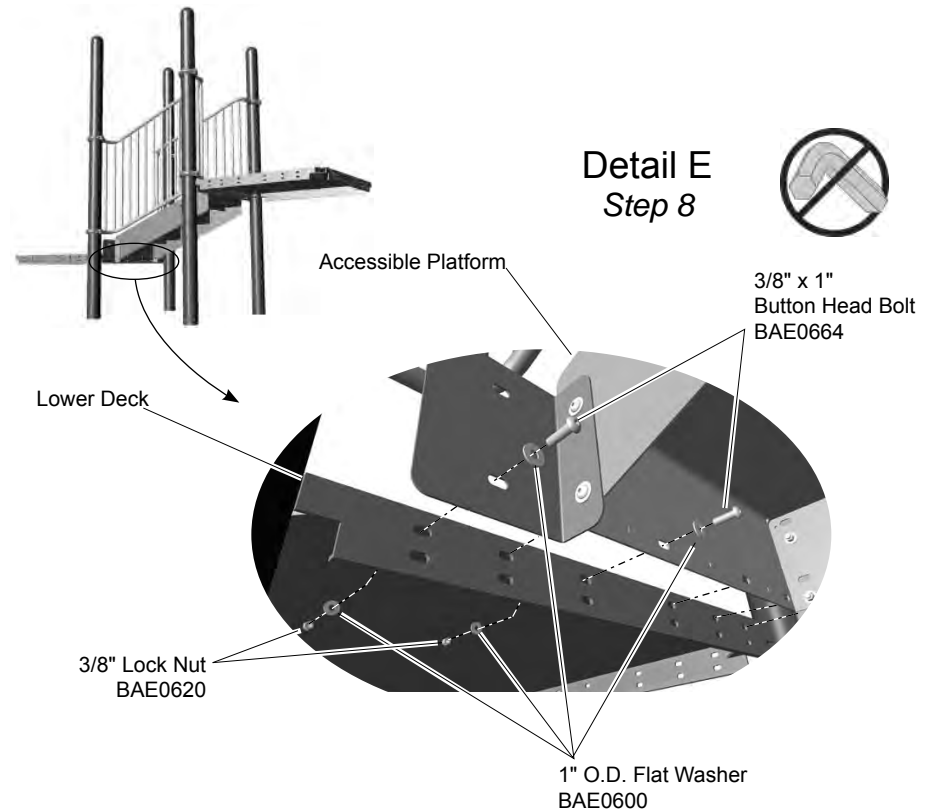
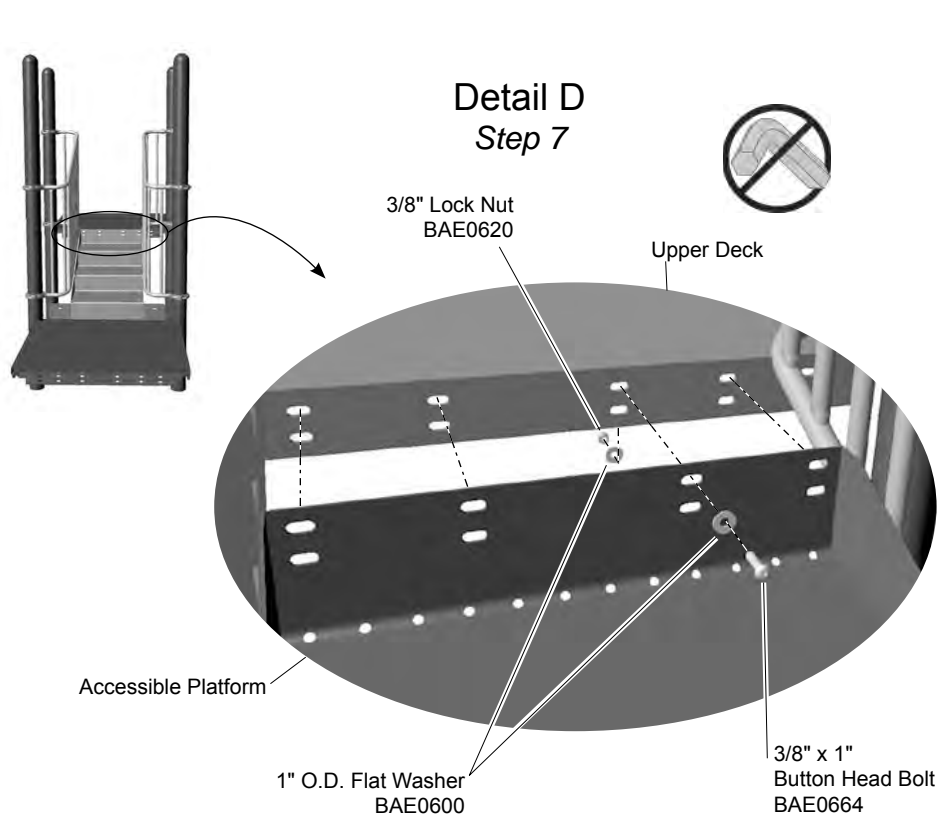


Detail B
Step 5



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

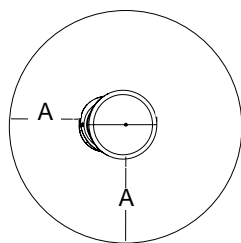
PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

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





Assembly View



Equipment Use Zone
 A - ASTM: 72 in. (1830 mm)
 A - CSA: 1800 mm
 A - EN: 2000 mm

Installation Instructions





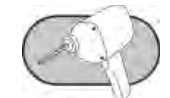


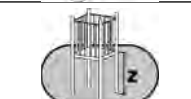
Playworld Systems® Model XX0065

Spincup

Installation Preparation

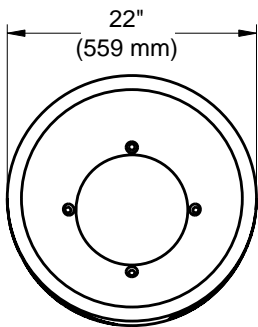
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 47.2 Lbs. (21.5 Kilos)
 Concrete Required: 0.06 cubic yard (0,04 cubic meters)
 Use Zone: Refer to the information below
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

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

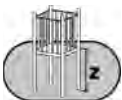
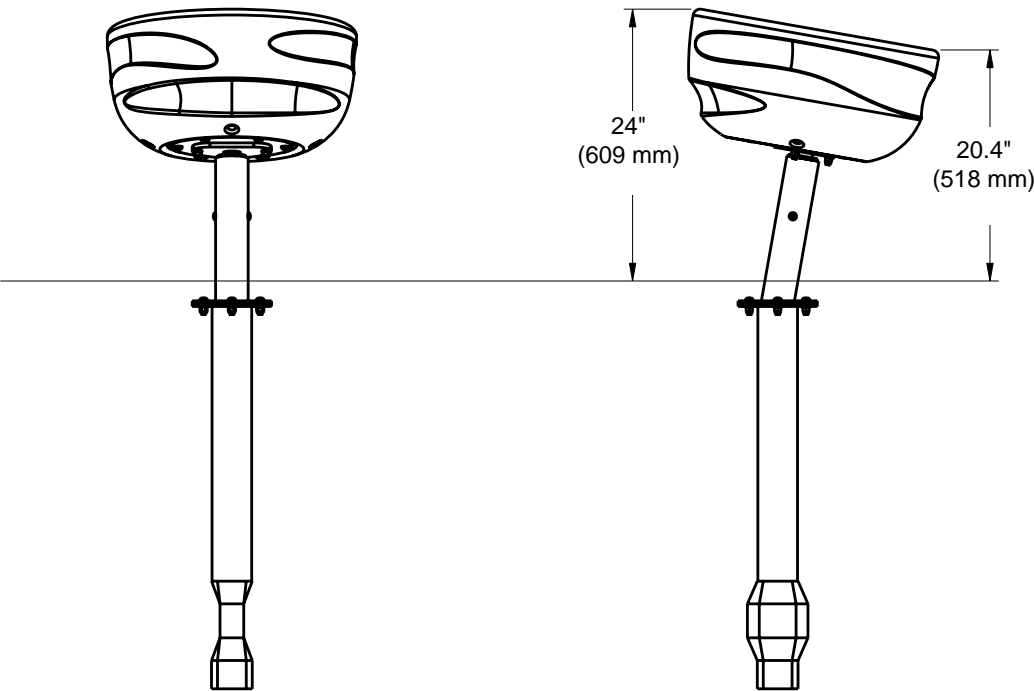
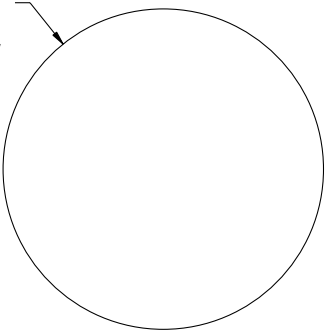
Installation Instructions

Top View



Footring Diagram

12.0"
(305 mm)
Diameter

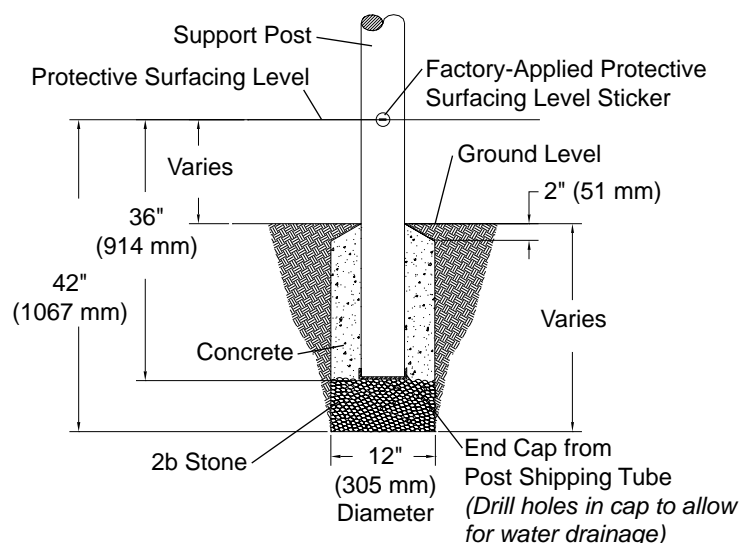


24" (609 mm)

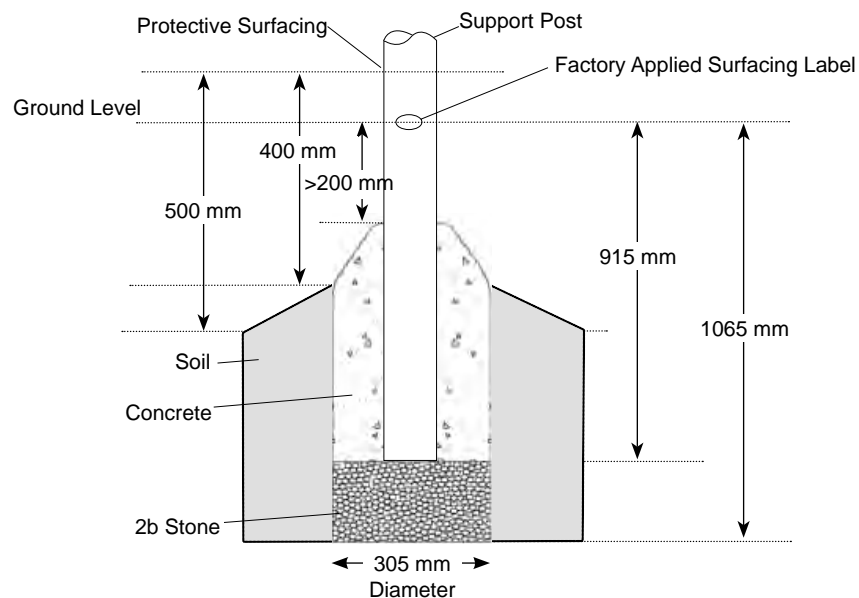
Elevation Views



Installation Instructions



Support Post Footing Detail (ASTM/CSA)



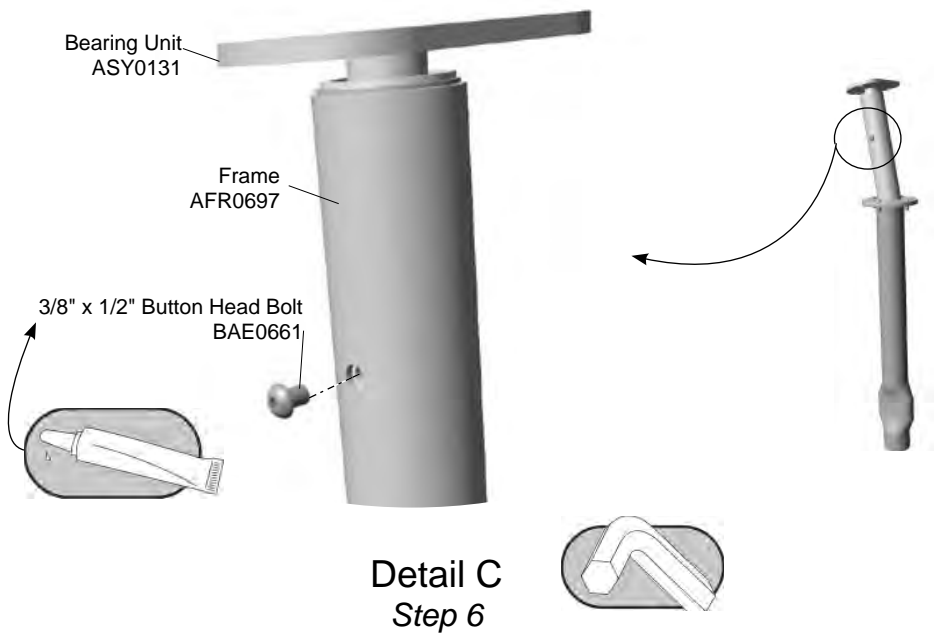
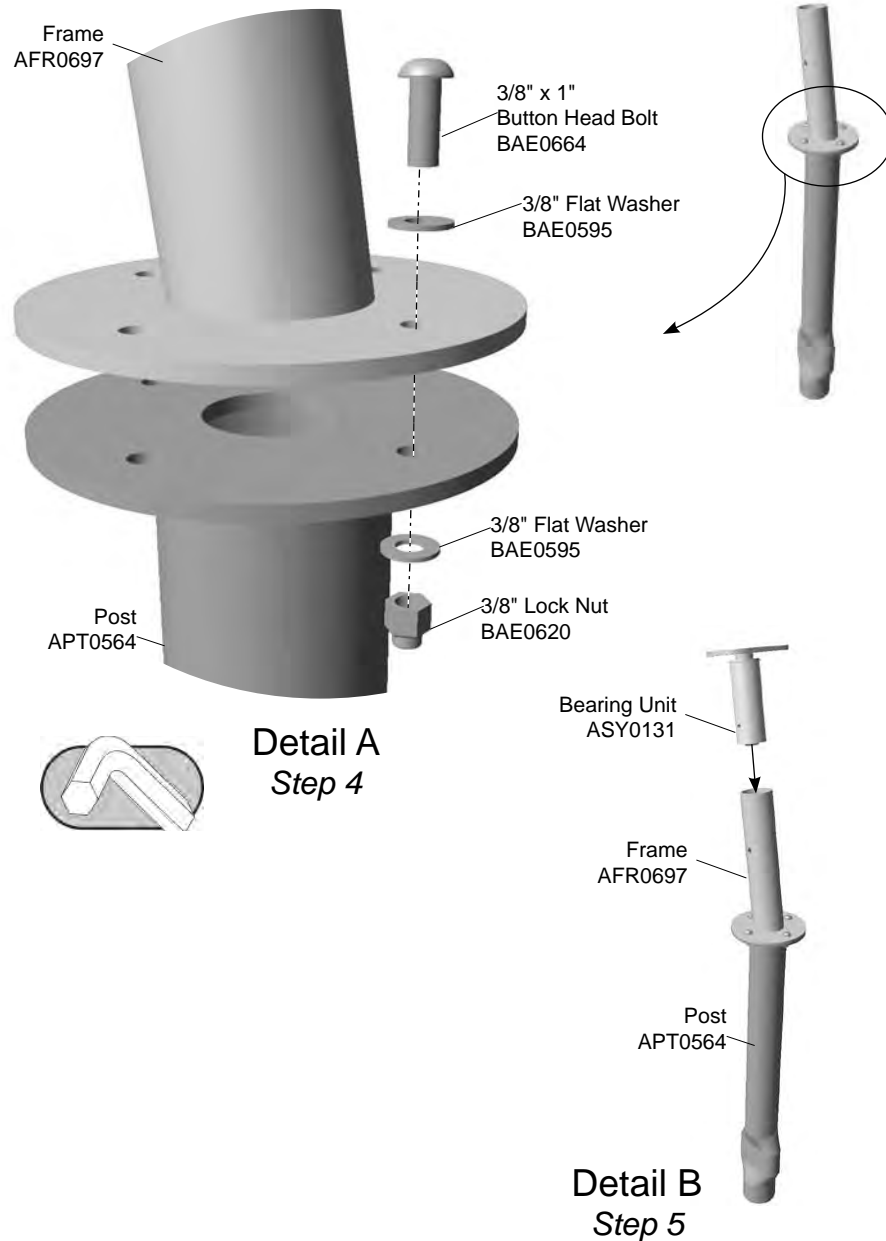
Footing Detail Support Post (EN)

FOOTING NOTES

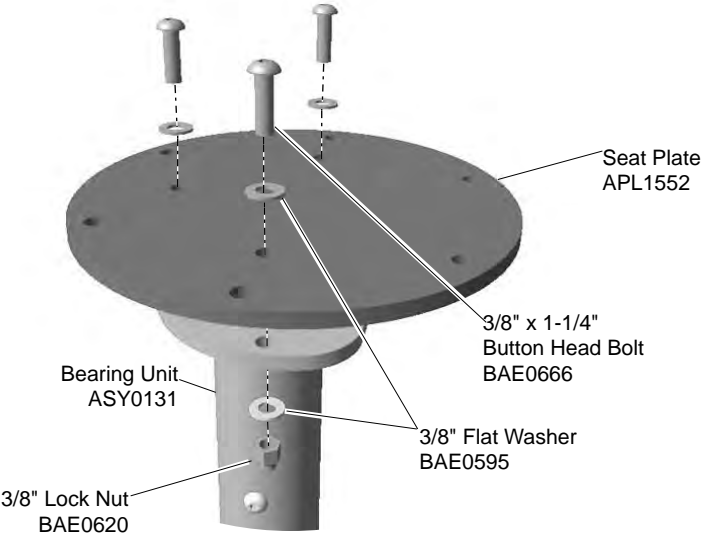
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- Component footing depth equals 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).
- Some support posts and component support legs may 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 or porous block.
- 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

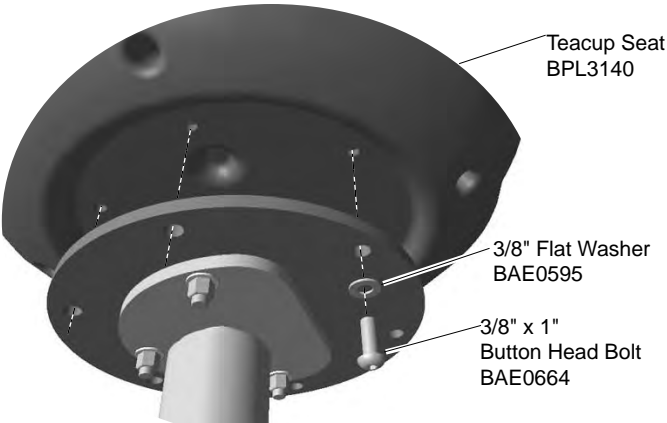
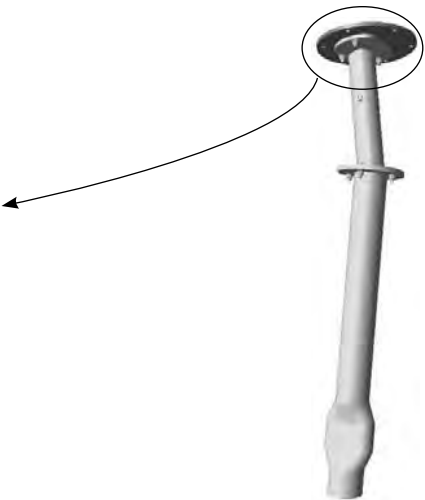
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



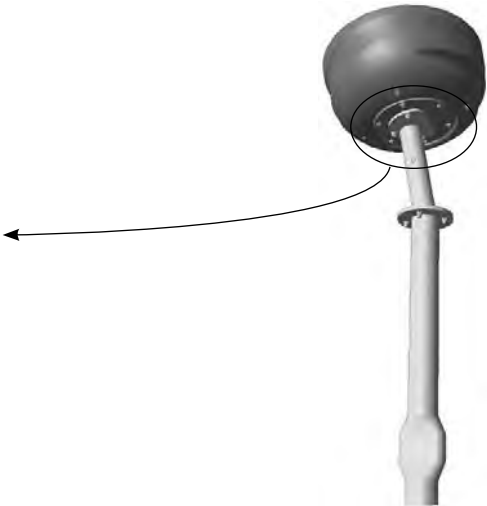
Installation Instructions



Detail D
Step 7



Detail E
Step 8



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 footings as shown in the **Support Post Footing Details** as shown on **page 3** of this document.

Attach the frame to the post.

Step 4: Attach the frame to the post. See **Detail A**. Select the frame, the post, and the appropriate hardware. There are (4) four connections. Lower the frame onto the post and align the holes. Attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Attach the bearing unit to the frame.

Step 5: Lower the bearing unit into the frame. See **Detail B**. Select the bearing unit. Lower the bearing unit into the frame and align the holes. Insert as shown.

Step 6: Attach the bearing unit to the frame. See **Detail C**. Select the appropriate hardware. There are (2) two connections. 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 Spincup seat to the bearing unit.

Step 7: Attach the seat plate to the bearing unit. See **Detail D**. Select the seat plate and the appropriate hardware. There are (3) three connections. Place the seat plate on top of the bearing unit, align the holes in the bearing unit with the inner holes in the plate, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 8: Attach the Spincup seat to the seat plate. See **Detail E**. Select the teacup seat and the appropriate hardware. There are (6) six connections. Lower the teacup seat onto the seat plate. Align the holes and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Final Details.

Step 9: 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 & Nuts - Snug tighten and then tighten an additional half turn.

Step 10: Apply the age appropriate labels to upper side corners at places shown on the **Elevation View**.

XX0065 - SPINCUP

PART NO.	DESCRIPTION	QTY.
AFR0697	FRAME - SIMPLE TEACUP ANGLED	1
APL1552	PLATE - 10.75" O.D. x .38"	1
APT0564	POST - 7.00" O.D. x 34.00"	1
ASY0131	ASSY - SIMPLE TEACUP	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	7
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BAE0922	TOOL - TT 45 L WRENCH	1
BPL3140	TEACUP SEAT	1
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

Playworld Systems®

Model XX0065

Spincup



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 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			
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 rotating play equipment that rotates around a vertical axis, the use zone should extend on all sides a minimum distance of 72 inches (1829 mm). This use zone may **not** be overlapped by the use zones of adjacent play equipment. The exemption is equipment where the diameter of the platform is less than 20 in. (510 mm) may overlap if the adjacent designated play surfaces of each structure are less than 30 in. (760 mm) above the protective surface. If adjacent designated play surfaces on either structure exceed a height of 30 in. (760 mm), the minimum distance between structures shall be 108 in. (2740 mm).
- **CSA compliance:** For rotating play equipment, the use zone should extend on all sides a minimum distance of 1800 mm. This use zone may **not** be overlapped by the use zones of adjacent play equipment. A no-encroachment zone is also required for play equipment over 500 mm in diameter that rotates around a vertical axis. In addition to the use zone measurement, this zone will extend an additional 1800 mm and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment.

- **EN compliance:** For rotating play equipment, the use zone should extend on all sides a minimum distance of 2000 mm. This use zone may **not** be overlapped by the use zones of adjacent play equipment. There must also be a head clearance of 2000 mm above the maximum height of the rotating 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.

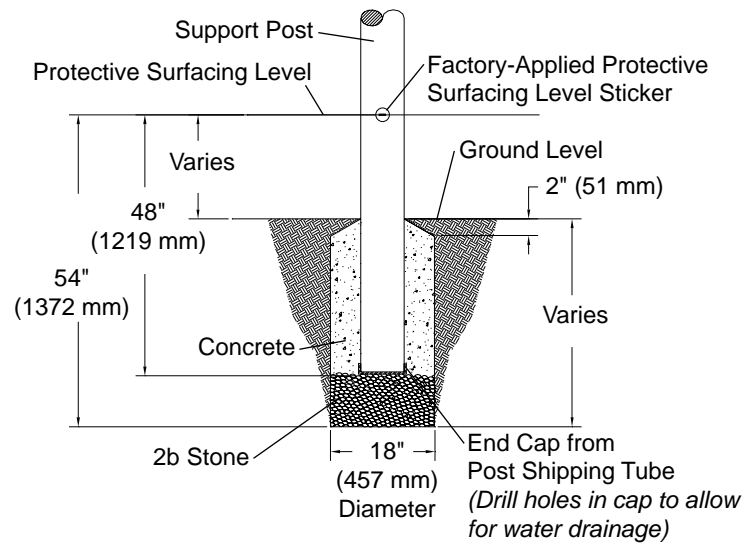
Maintenance

- 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.

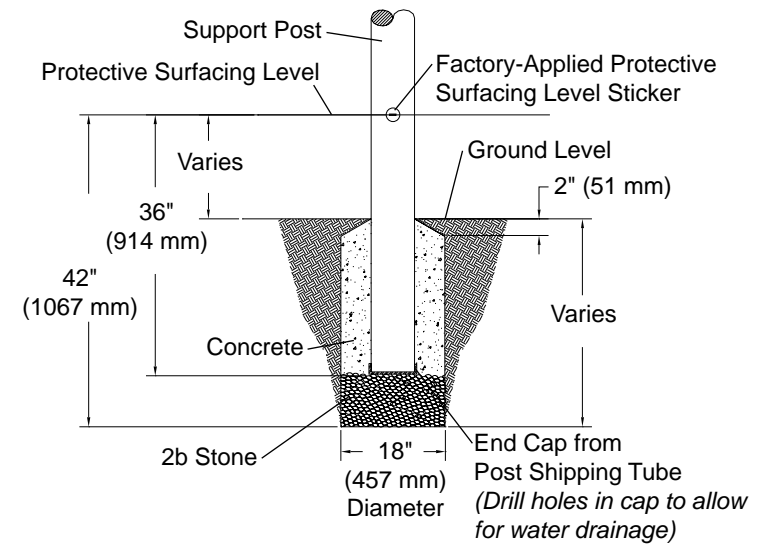
Supervision Guidelines

- 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.

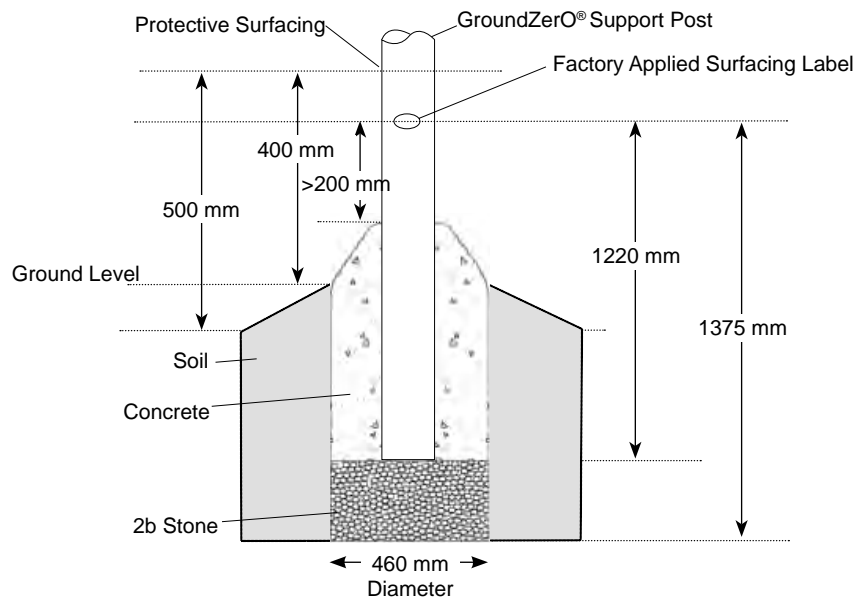
Footings Details (in ground)



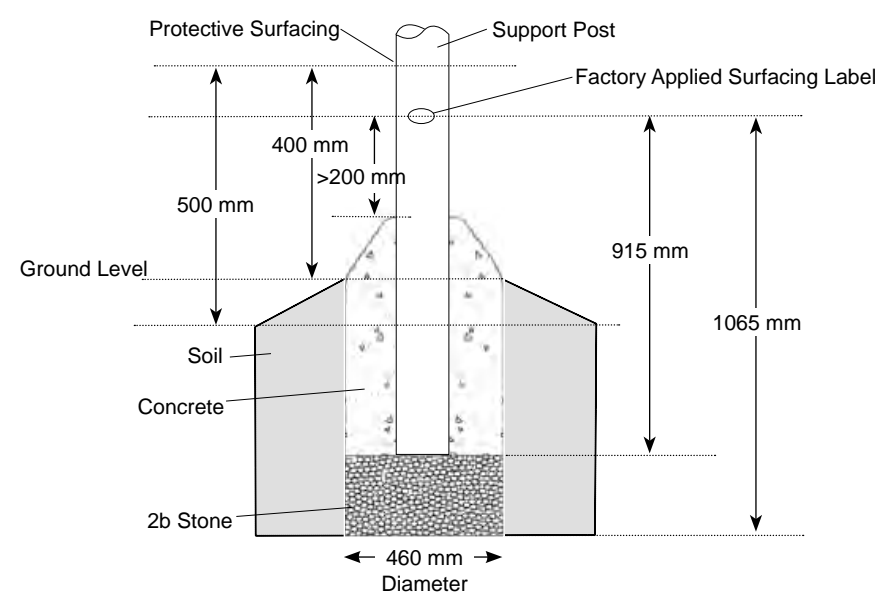
GroundZero® Support Post Footing Detail ASTM/CSA



Support Post Footing Detail (ASTM/CSA)



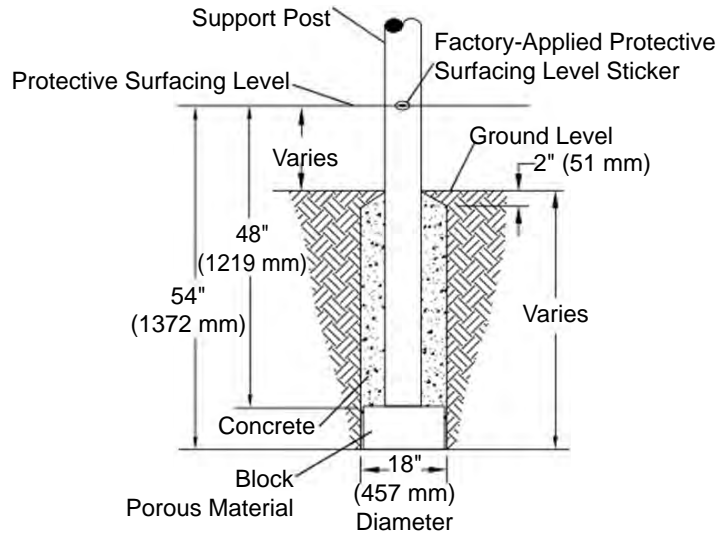
Footing Detail - GroundZero® Support Post (EN)



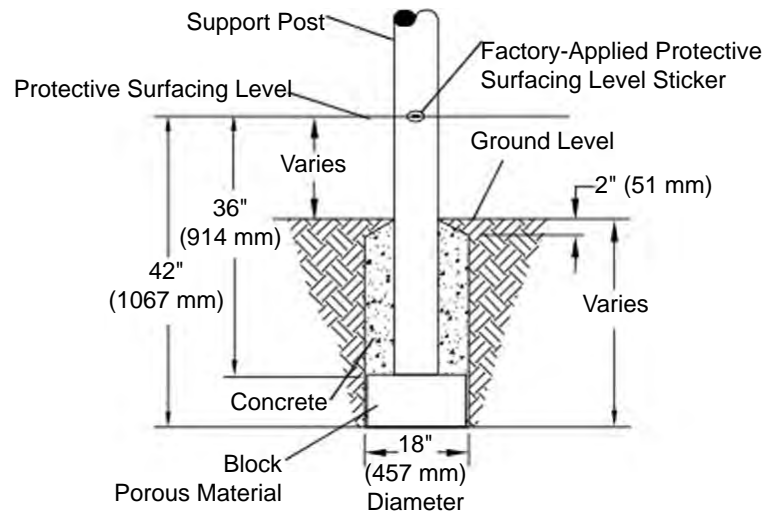
Footing Detail - Support Post (EN)

Footings Details (in ground)

Footings Notes



GroundZero® Support Post Footing Detail ASTM/CSA Block Option

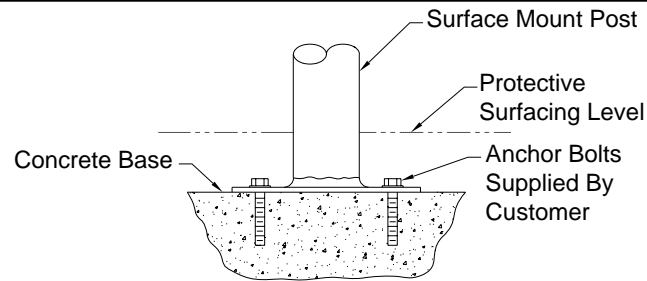


Support Post Footing Detail (ASTM/CSA) Block Option

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® support post footing depth equals 54 in. (1372 mm) minus the depth of the protective surfacing material. The posts are 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).
- 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.

Footling Detail (surface mount)



Surface Mount Footing Detail

Footling Notes

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.

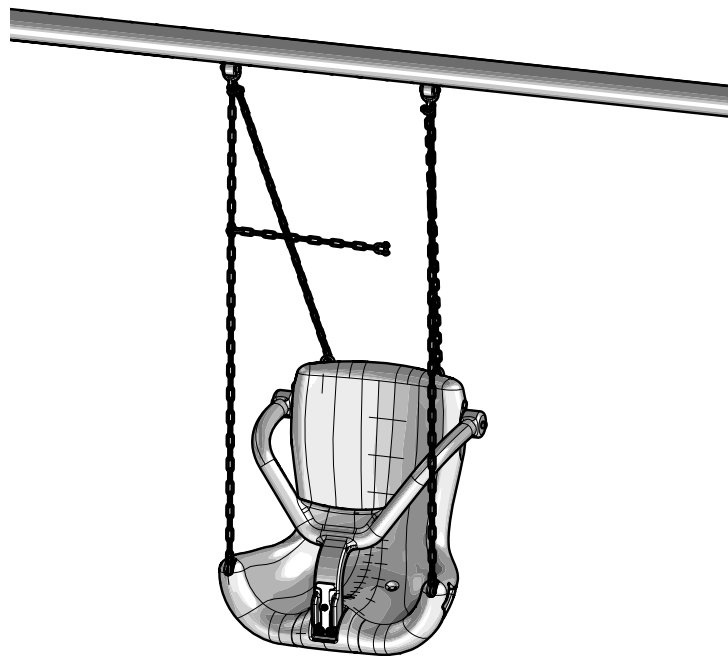
FINAL INSPECTION

- 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

Model Number	Top Rail Height
ZZXX0223	7 ft. (2135 mm)
ZZXX0224	8 ft. (2440 mm)
ZZXX0225	10 ft. (3050 mm)

Installation Instructions








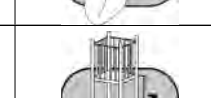
Playworld Systems®

Models XX0223, XX0224 and XX0225
Accessible Swing Seat w/ Galvanized Chain
to 7 ft (2134 mm), 8 ft. (2438 mm),
and 10 ft. (3048) Top Rail

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 man-hour
Use Zone: Refer to swing set instructions
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

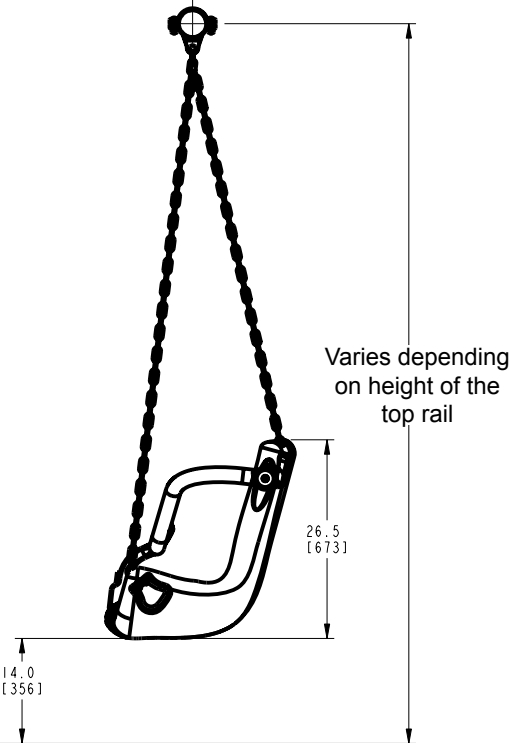
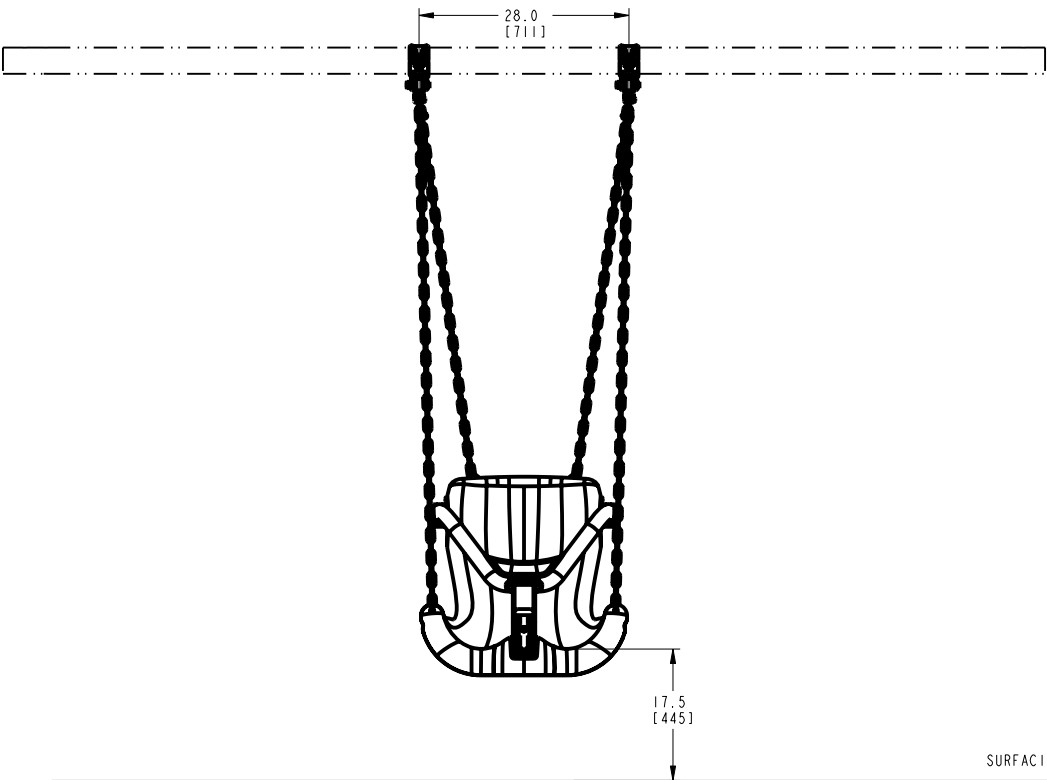
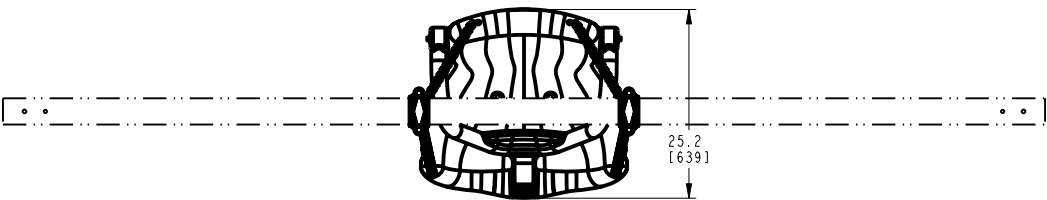
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

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

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0223	1240 mm	7 ft. (2135 mm)
ZZXX0224	1392 mm	8 ft. (2440 mm)
ZZXX0225	1697 mm	10 ft. (3050 mm)

Top View



Elevation Views

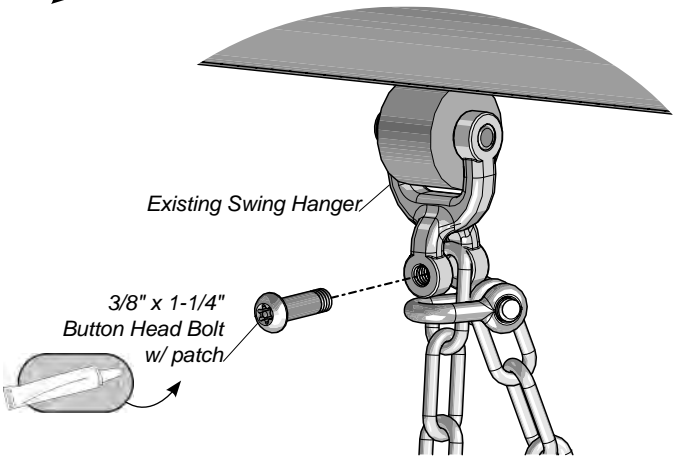
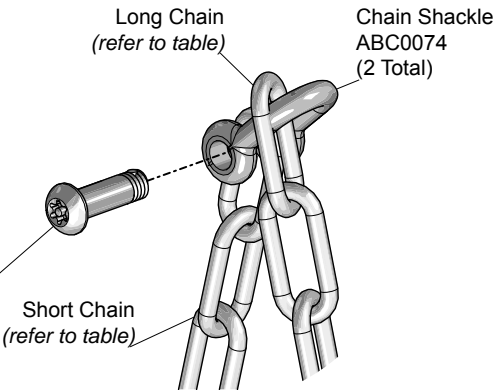
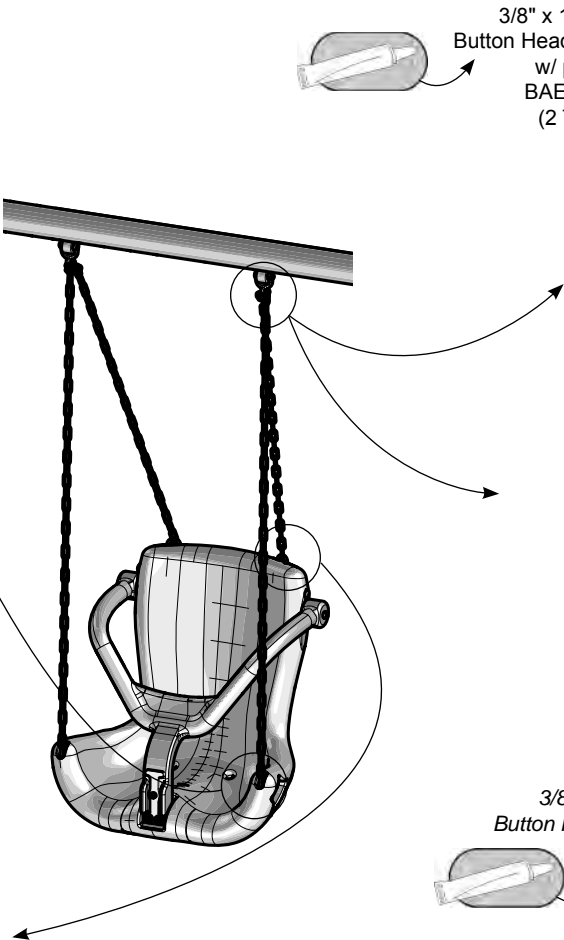
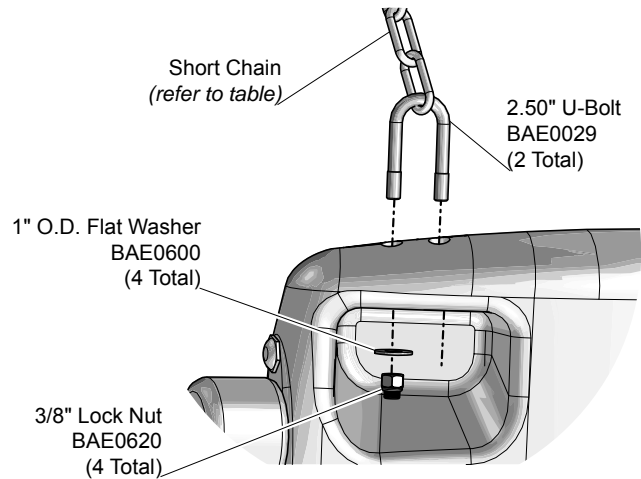
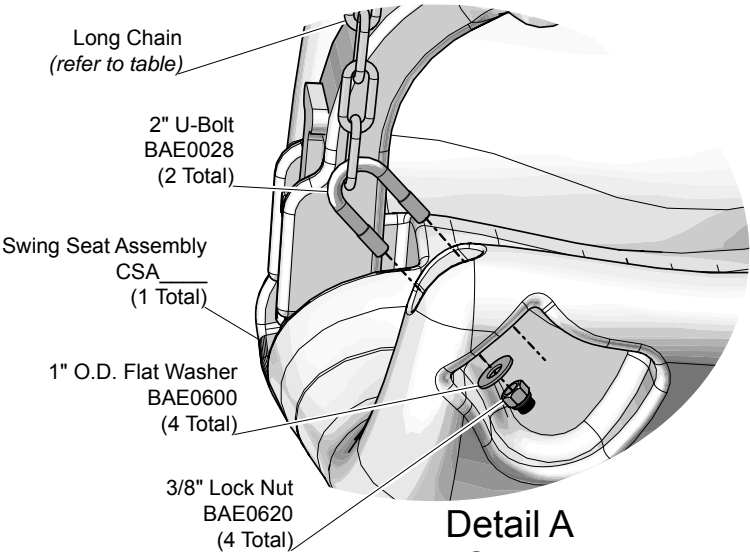


Installation Instructions

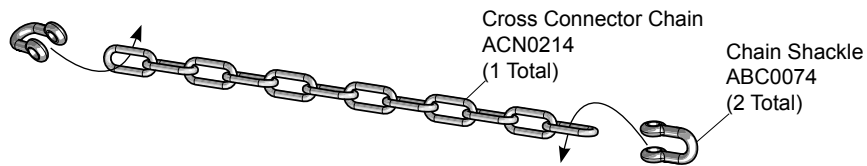
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

Model Number	Longer Chain	Shorter Chain
ZZXX0223	ACN0080	ACN0081
ZZXX0224	ACN0082	ACN0053
ZZXX0225	ACN0084	ACN0085

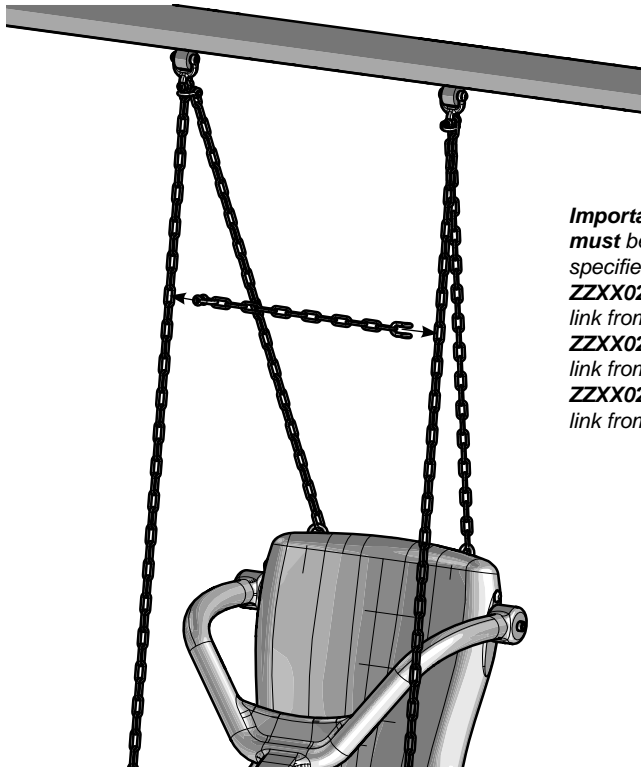
Note: If using the 5" O.D. arch swing, put the shackle in the second chain link from the top.



Installation Instructions



Thread the shackles through the end links on the chain.

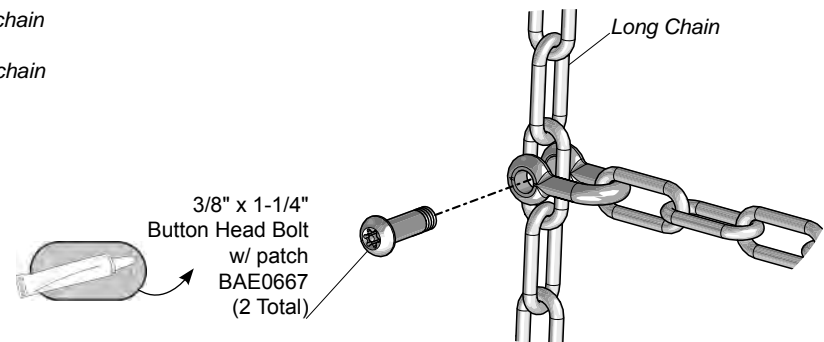
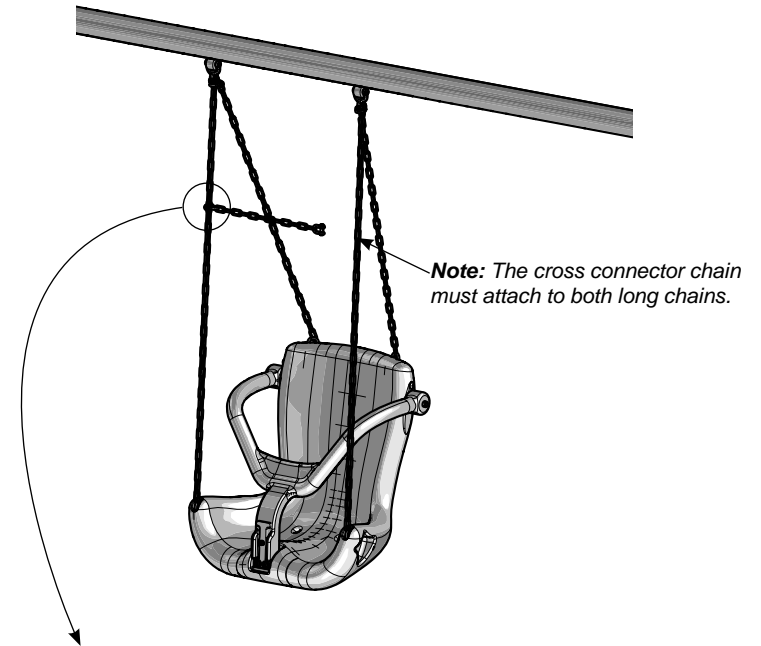


Important Note: The cross connector chain **must** be attached to the long chains at the below specified position:

ZZXX0223 - must be attached to the **13th** chain link from the top rail

ZZXX0224 - must be attached to the **21st** chain link from the top rail

ZZXX0225 - must be attached to the **38th** chain link from the top rail



Detail E Step 7

Attach cross connector chain to the long chains.

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 longer chain assembly to the accessible swing seat. See **Detail A**. Insert a U-bolt through the chain and into the openings on the top of each arm rest. Attach as shown.

Step 4: Attach the shorter chain assembly to the accessible swing seat. See **Detail B**. Insert a U-bolt through the chain and into the openings on the top of the seat back. Attach as shown.

Step 5: Connect the chains together. See **Detail C**. Thread a shackle through the last link of one of the longer "front" chains. Insert the last link of the shorter chain into the open end of the shackle. Apply thread locking adhesive to the bolt threads. Insert a bolt through the unthreaded side of the shackle, *through the last link* of the shorter chain, and thread into the opposite side of the shackle. Repeat for the other set of chains.

Step 6: Attach the swing seat assembly to the swing hangers. See **Detail D**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex wrench. Select the swing seat and place the last link of the longer chain into the open end of the clevis. Re-insert the bolt through the unthreaded side of the clevis, *through* the chain link, and thread into the opposite side of the clevis.

Step 7: Attach the cross connector chain to the long chains. See **Detail E**. Thread a shackle through each end link on the chain. Position the chain between the long chains, apply a drop of thread locking adhesive to the bolt threads and attach as shown on both ends.

Important Note: The cross chain connector must be attached to the long chain at the below specified position:

ZZXX0223 - must be attached to the **13th** chain link from the top rail

ZZXX0224 - must be attached to the **21st** chain link from the top rail

ZZXX0225 - must be attached to the **38th** chain link from the top rail

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.

Important Note: The vertical distance between an occupied seat and the protective surface should be at least 14" (356 mm). Remove any excess chain.

Usage Instructions: Place child in swing and pull the harness down around child. Pull the rubber latch up until the hole aligns with the protrusion on the harness. Press the rubber latch onto the harness to secure. To release the latch, pull the rubber up and out until the harness is released. Do **NOT** attempt to pull harness out of swing seat without disengaging the latch first.

ZZXX0223 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 7 ft. (2134 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	4
ACN0080	4/0 CHAIN - 57"	2
ACN0081	4/0 CHAIN - 40.74"	2
ACN0214	4/0 CHAIN - 17.11"	1
BAE0028	BOLT - 3/8"-16 x .89" x 2.00" - U	2
BAE0029	BOLT - 3/8"-16 x .89" x 2.50" - U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/NYLON PATCH	4
CSA____	SEAT - ACCESSIBLE SWING SEAT	1

ZZXX0225 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 10 ft. (3048 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	4
ACN0084	4/0 CHAIN - 94"	2
ACN0085	4/0 CHAIN - 75"	2
ACN0214	4/0 CHAIN - 17.11"	1
BAE0028	BOLT - 3/8"-16 x .89" x 2.00" - U	2
BAE0029	BOLT - 3/8"-16 x .89" x 2.50" - U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/NYLON PATCH	4
CSA____	SEAT - ACCESSIBLE SWING SEAT	1

ZZXX0224 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	4
ACN0053	4/0 CHAIN - 52"	2
ACN0082	4/0 CHAIN - 70"	2
ACN0214	4/0 CHAIN - 17.11"	1
BAE0028	BOLT - 3/8"-16 x .89" x 2.00" - U	2
BAE0029	BOLT - 3/8"-16 x .89" x 2.50" - U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/NYLON PATCH	4
CSA____	SEAT - ACCESSIBLE SWING SEAT	1



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.

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.

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 coating, contact the Playworld Systems' Customer Service Department for a coating repair touch-up kit.

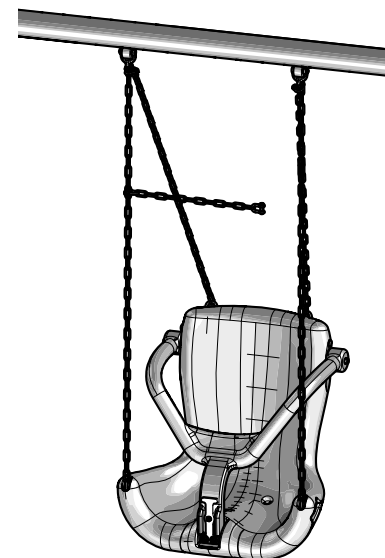
Replacement Parts

- 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 XX0223,
XX0224, XX0225

Accessible Swing Seat
w/ Galvanized Chain
to 7 ft (2134 mm), 8 ft. (2438 mm),
and 10 ft. (3048) Top Rail





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www.playworld.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 plastic parts 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			
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

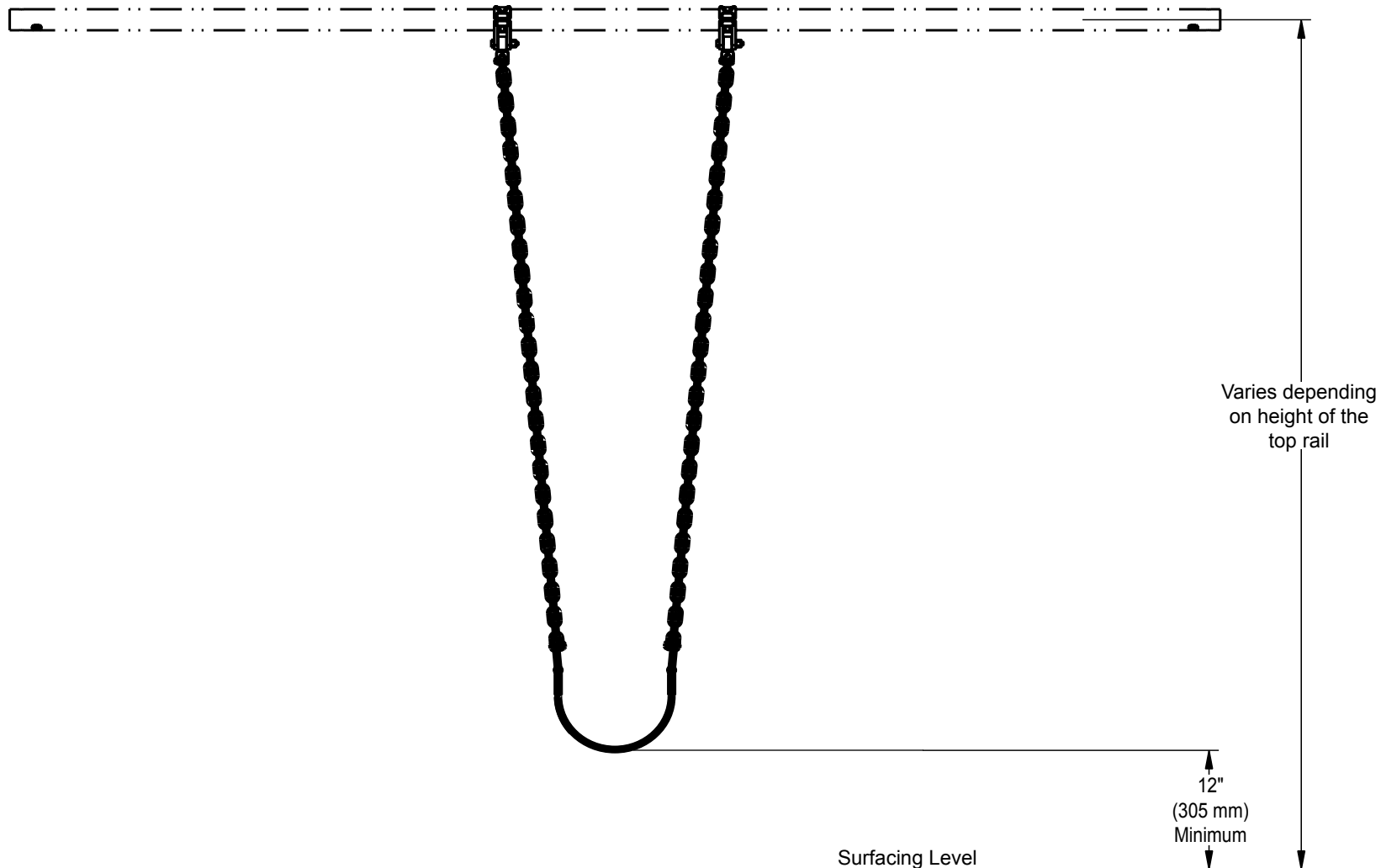
Installation Preparation

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

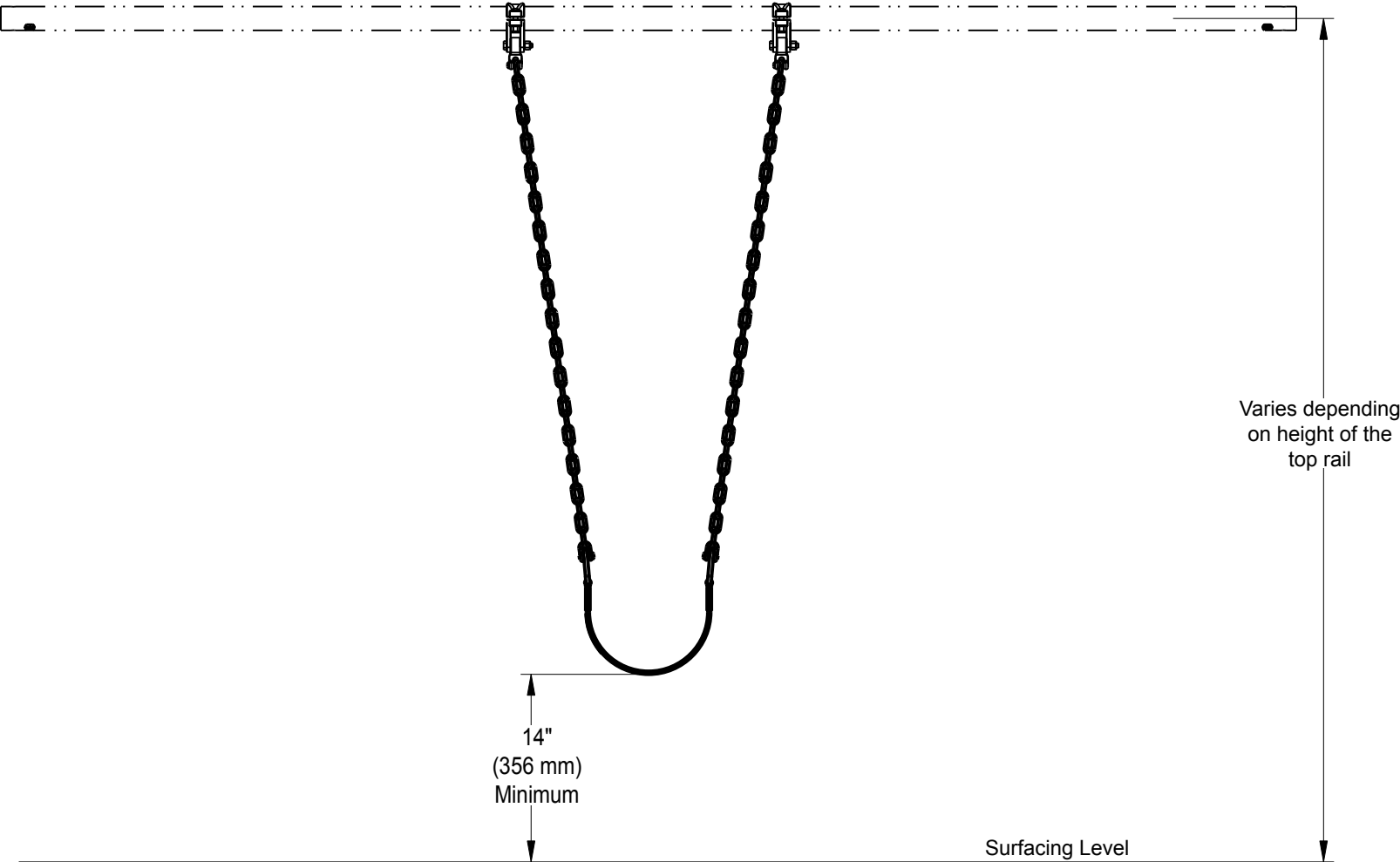
Installation Instructions



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



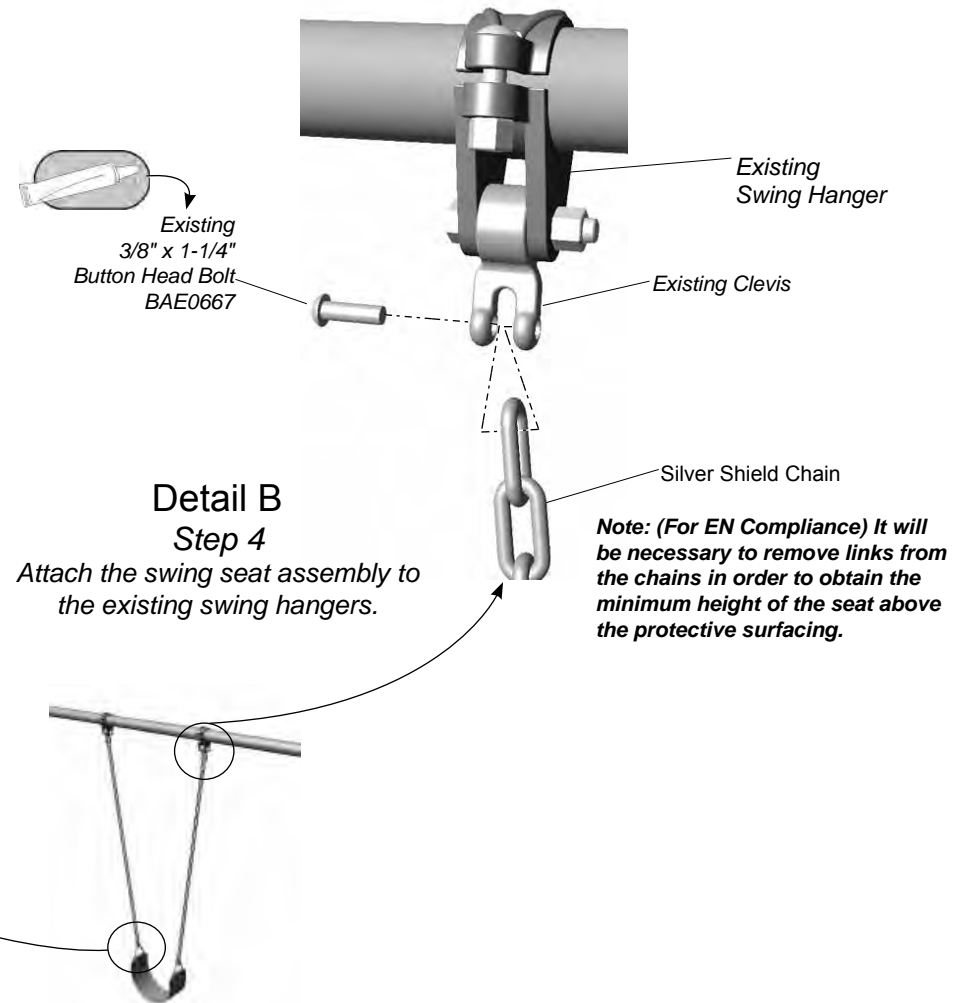
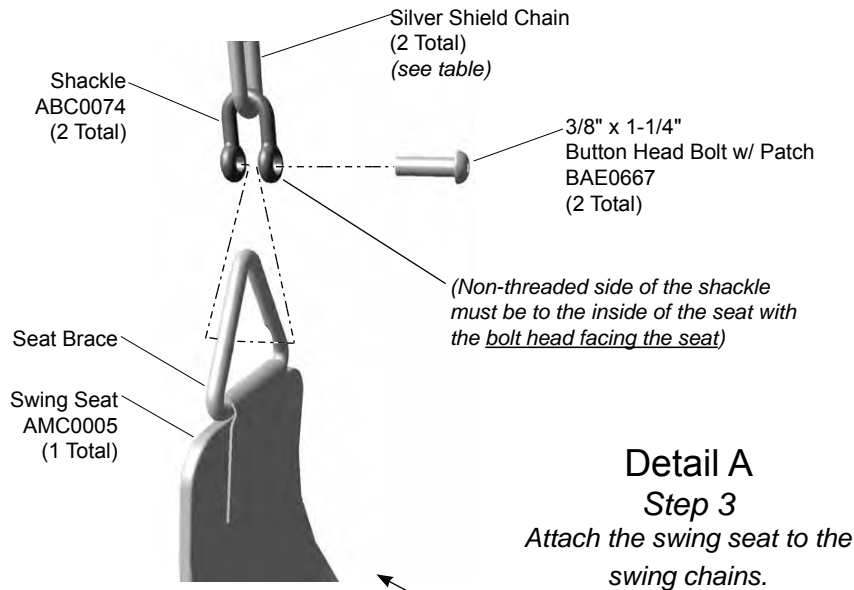
Elevation View
(EN)

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



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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





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Inspection Form

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- 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.

Model Number	Top Rail Height
ZZXX0325	7 ft. (2134 mm)
ZZXX0265	8 ft. (2440 mm)
ZZXX0266	10 ft. (3050 mm)

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
 Use Zone:..... Refer to the swing frame instructions
 User Group:..... Ages 2 - 5 years

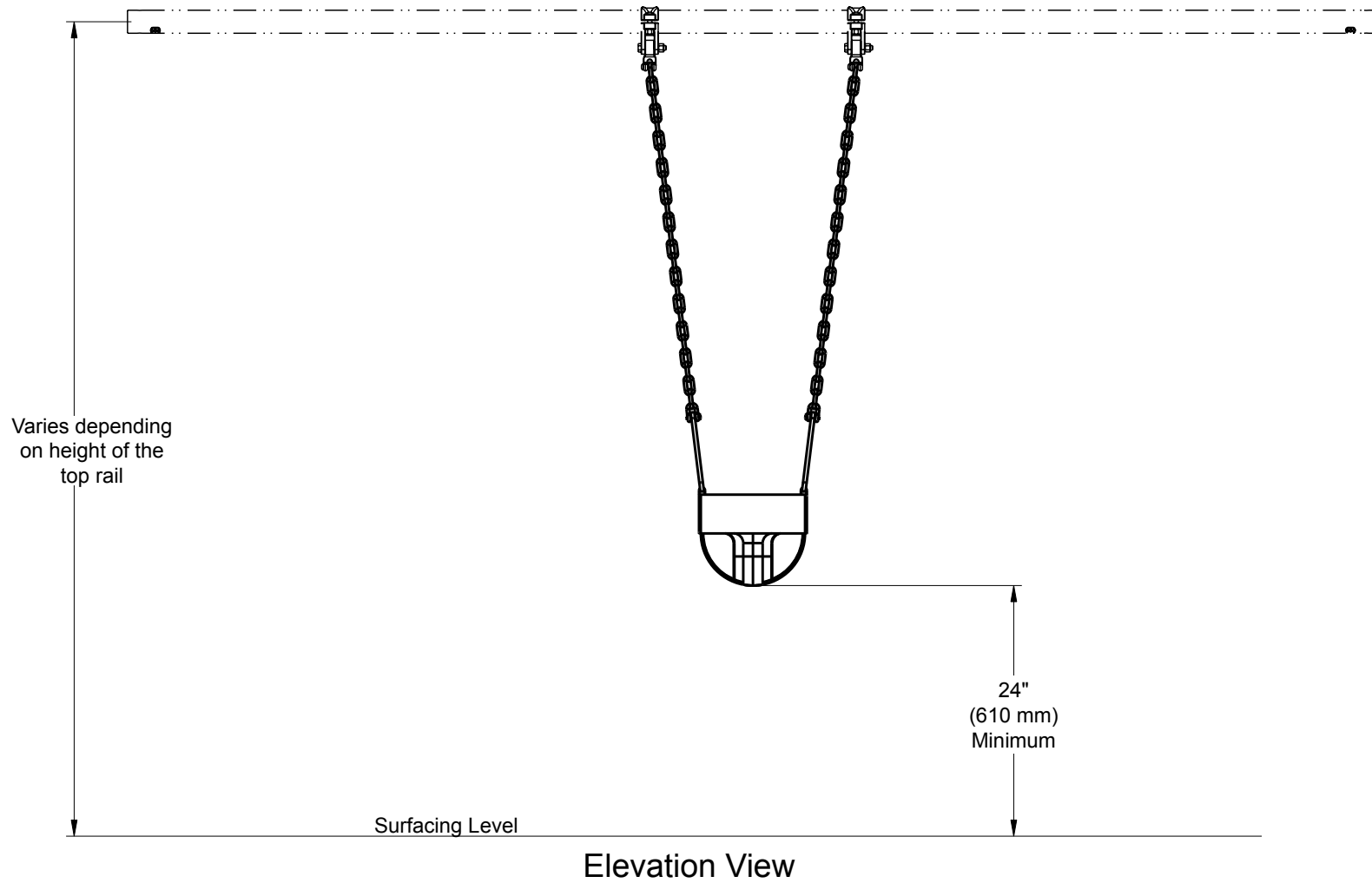
ICON KEY



Fully Tighten
Hardware



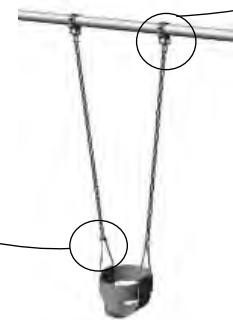
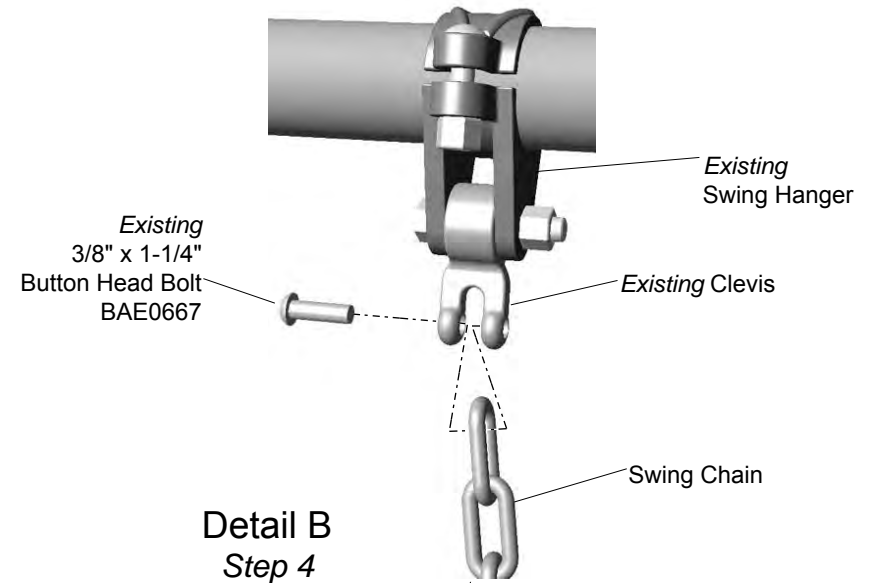
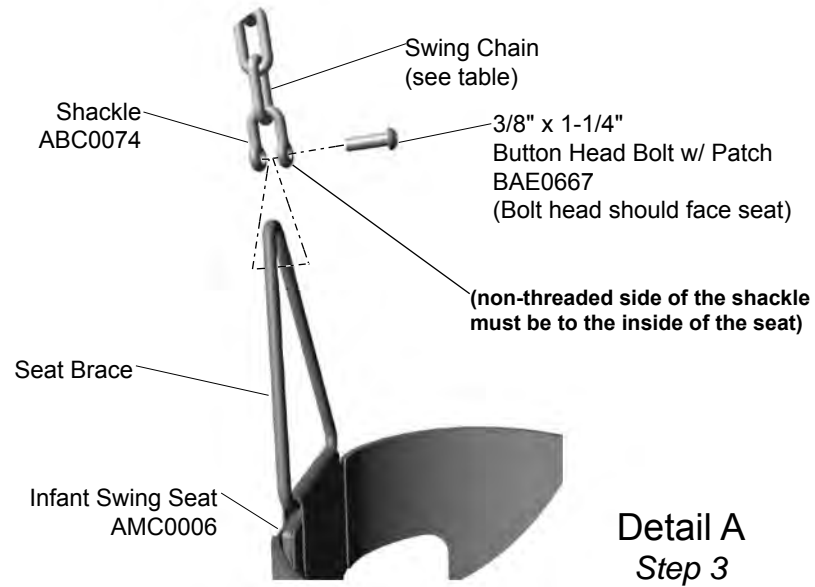
Installation Instructions



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



The world needs play.

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www.playworldsystems.com



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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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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

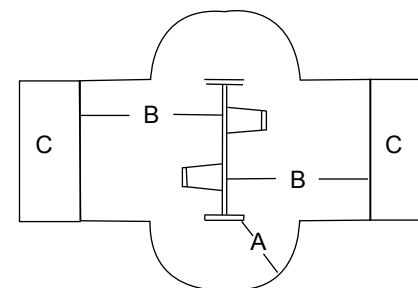
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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

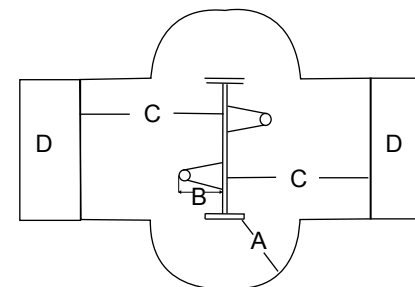
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- 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

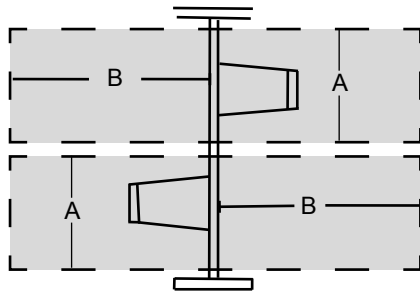
(EN)

- 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 absorbcy. 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.

Installation Instructions

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.

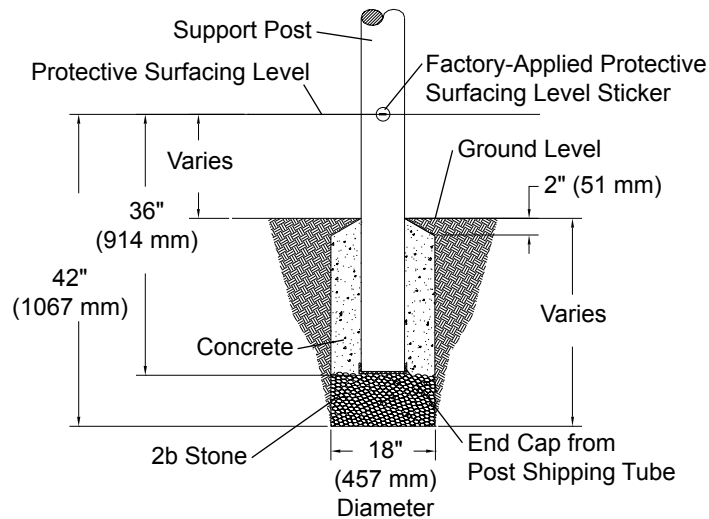
Maintenance

- 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.

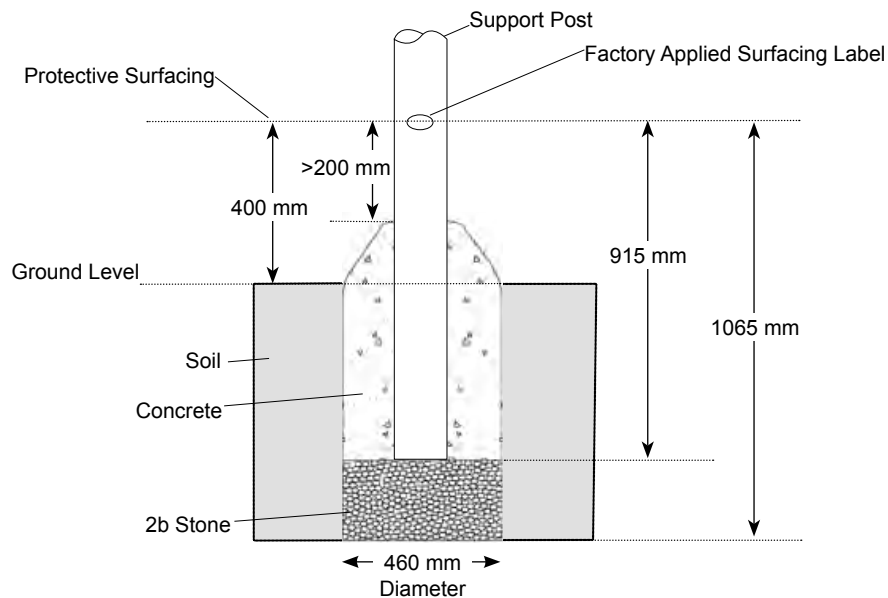
Supervision Guidelines

- 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



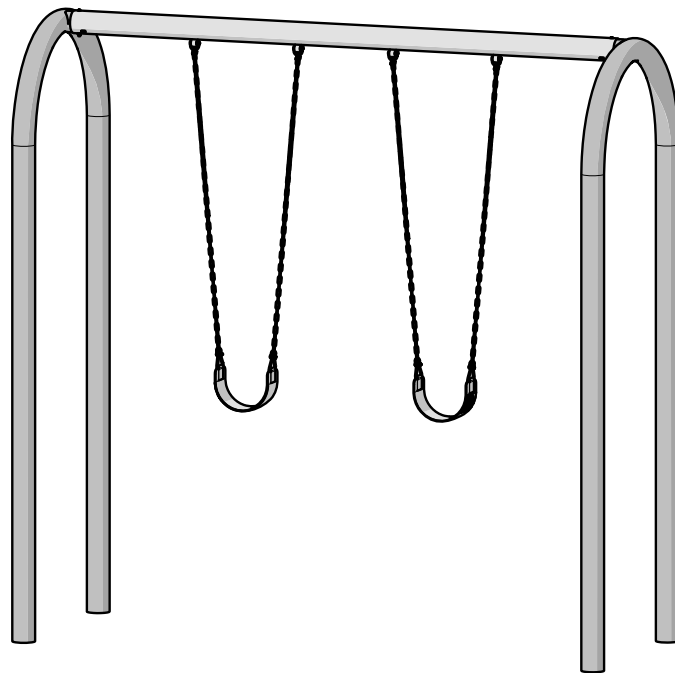
Support Post Footing Detail (ASTM/CSA)



Footing Detail 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).
- 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

Installation Instructions

Playworld Systems® Model ZZXX0833

5 in. Outside Diameter

2-Unit Aluminum Arch Swing
with 8 ft Top Rail

Installation Preparation

Recommended Crew: Four (4) adults








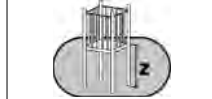
Installation Time: 3 man-hours

Concrete Required: 0.48 cubic yard (0,37 cubic meters)

Use Zone:..... Refer to the information on pages 1 & 2

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

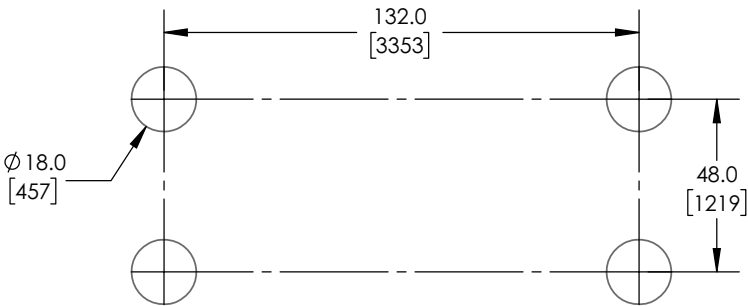
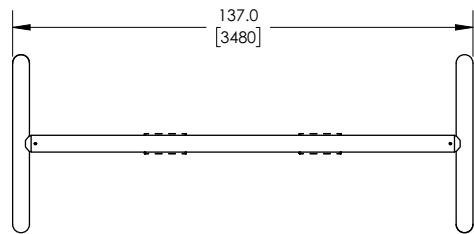
ICON KEY

	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

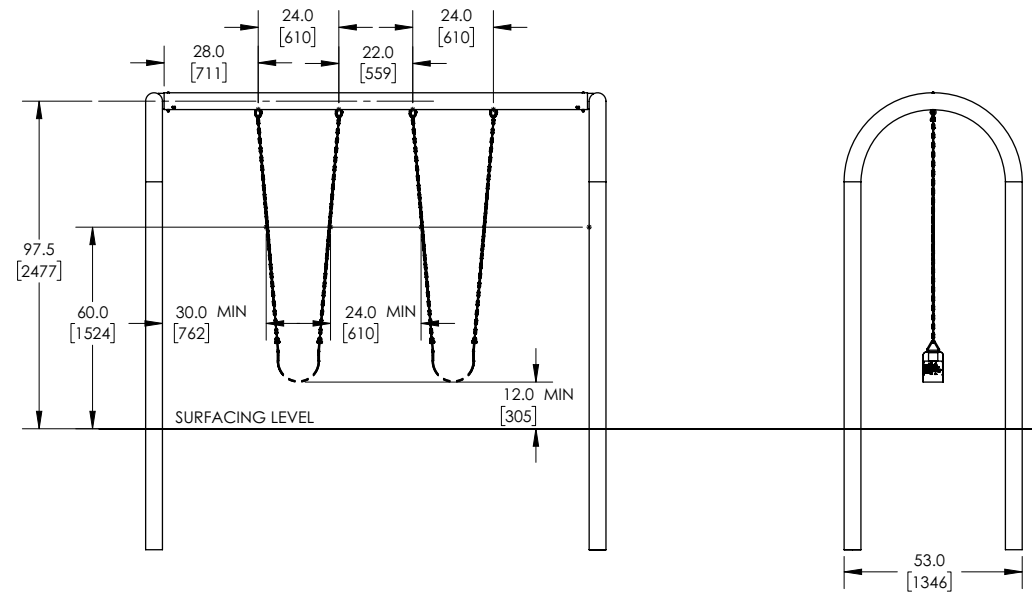
Installation Instructions

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

Top View



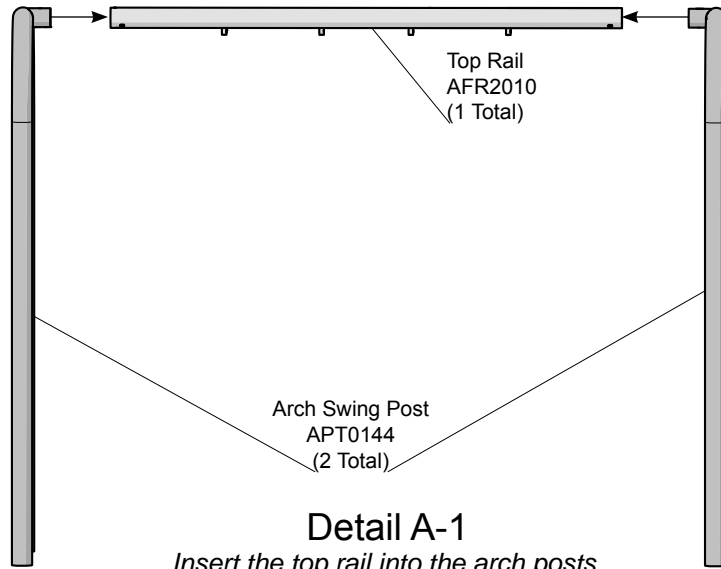
Footing Diagram



Elevation Views

Installation Instructions

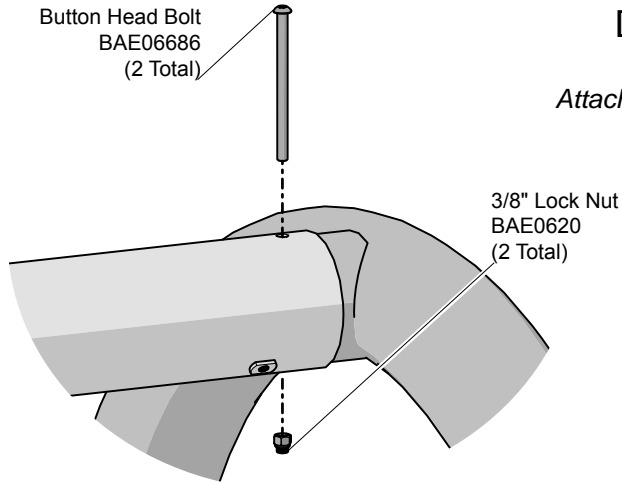
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A-1

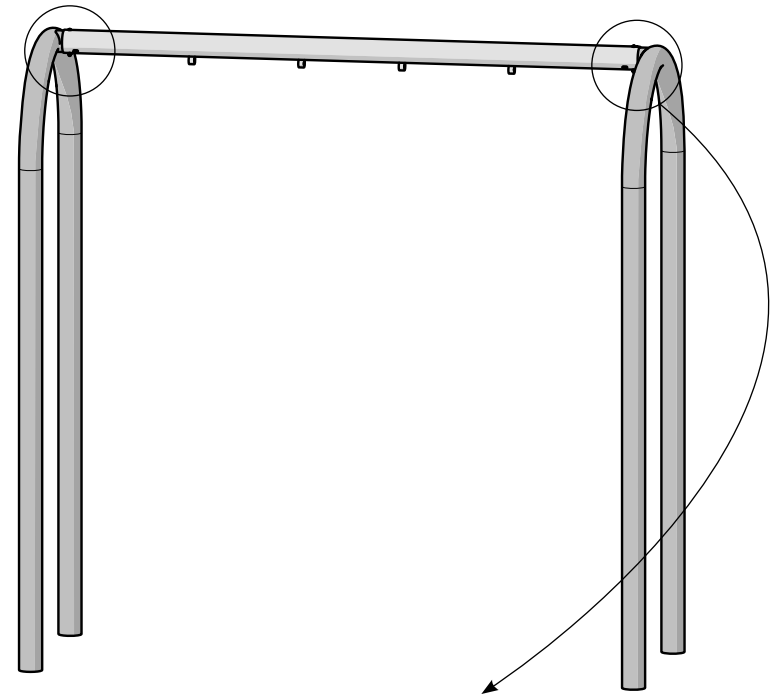
Insert the top rail into the arch posts.

3/8" x 5-1/2"
Button Head Bolt
BAE06686
(2 Total)



Detail A-2

Attach the top rail to the arch posts.

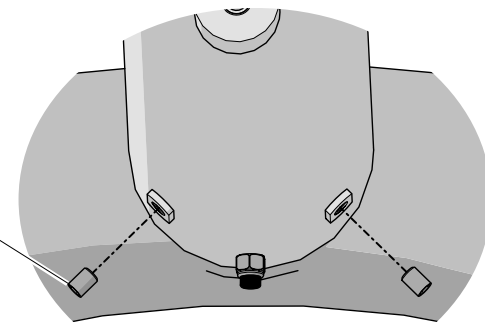


Details A-1, A-2 and A-3

Step 4

Attach the top rail to the arch support posts.

3/8" x 1/2"
Set Screw
BAE0630
(4 Total)

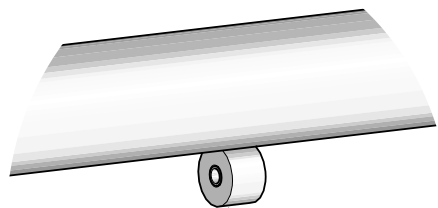


Detail A-3

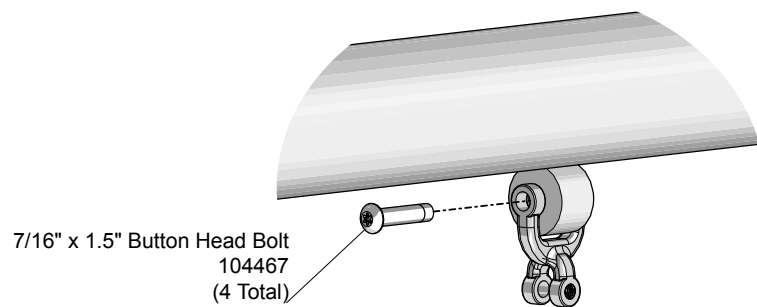
(Underneath View)

Secure the top rail to the arch posts.

Installation Instructions



Swing Clevis
984429
(4 Total)



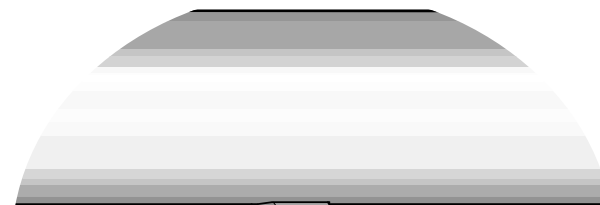
7/16" x 1.5" Button Head Bolt
104467
(4 Total)

***Insert through the non-threaded
side of the clevis first.



Detail B
Step 6

Attach the swing clevises to the top rail.



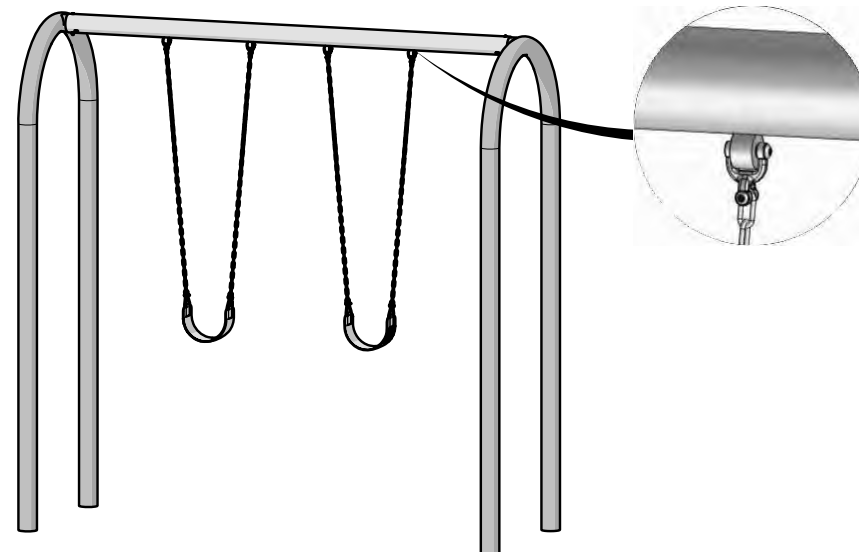
***Insert through the non-threaded
side of the clevis first.

3/8" x 1-1/4"
Button Head Bolt
w/ patch
BAE0667
(4 Total)



Detail C
Step 7

Thread the bolt into the clevis for
attachment to a swing seat chain.



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** on page 4 of this installation document.

Step 4: Attach the top rail to the arch support posts. See **Details A-1, A-2 and A-3**. Place the top rail onto the arch stubs and align the holes. Attach the top rail as shown.

Step 5: With adequate manpower, place the swing frame assembly into previously excavated 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. Block and brace for concrete. Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the Footing Detail. Allow concrete to harden for 72 hours before proceeding with **Step 6**.

Step 6: Attach the swing clevises to the top rail. See **Detail B**. Position a swing clevis over the tab on the top rail, and align the holes.

Step 7: Thread bolt into the swing clevis. See **Detail C**. 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 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.

Set Screws - Snug tighten and tighten an additional full turn.

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.

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Apply the Surfacing Warning labels to upper side corners. Labels are to be plainly visible according to current playground equipment guidelines.

XX0833 - 5 in. O.D. ALUMINUM ARCH SWING WITH 8 ft. TOP RAIL

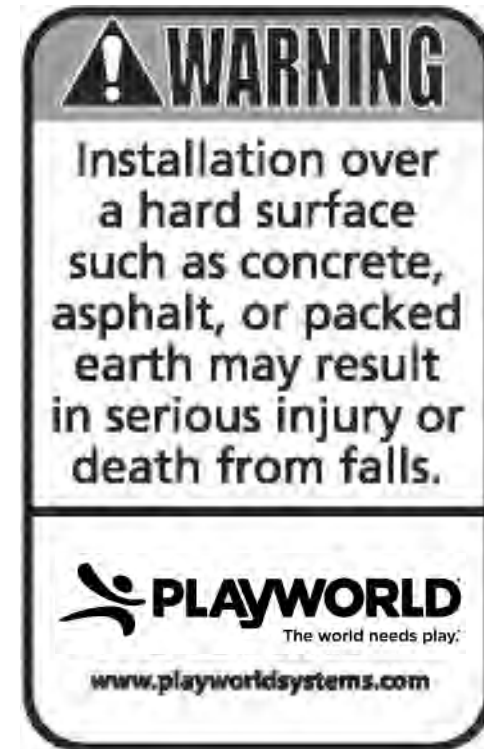
PART NO.	DESCRIPTION	QTY.
104467	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	4
984429	CLEVIS - SWING HANGER	4
AFR2010	SWING TOP RAIL - 5.00" O.D. x 126.00"	1
APT0144	POST - 5" O.D. x 133-1/2" ALUMINUM ARCH SUPPORT	2
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x .50" SOCKET SET SS	4
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/NYLON PATCH	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0922	TOOL - TT 45 L WRENCH	1
BAE0905	WRENCH - 3/16" HEX KEY	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	1



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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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.
- 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.
- 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

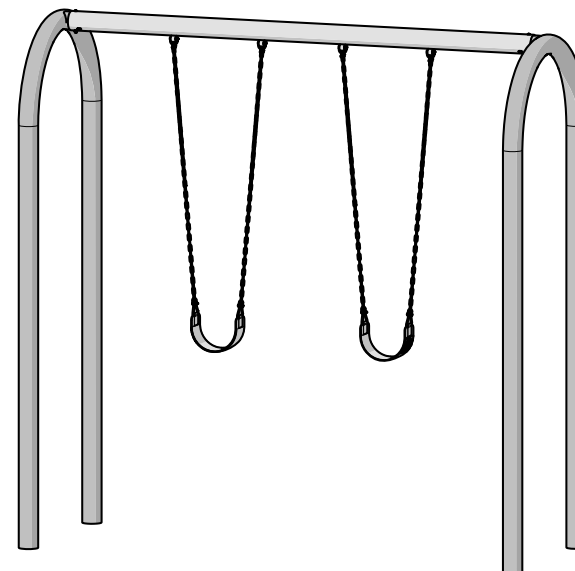
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®

Model XX0833

5 in. Outside Diameter
2-Unit Aluminum Arch Swing
with 8 ft Top Rail





PLAYWORLD
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.playworld.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 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: ___ / ___ / ___



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

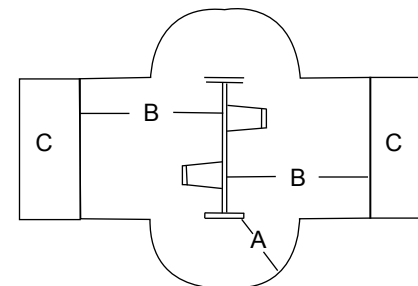
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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

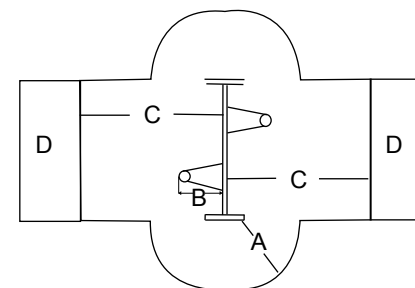
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- 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

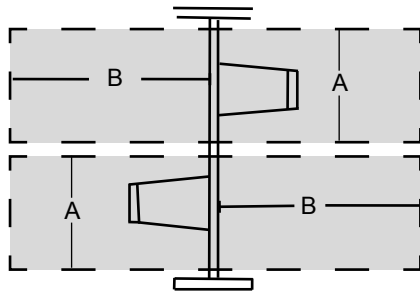
(EN)

- 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 absorbcy. 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.

Installation Instructions

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.

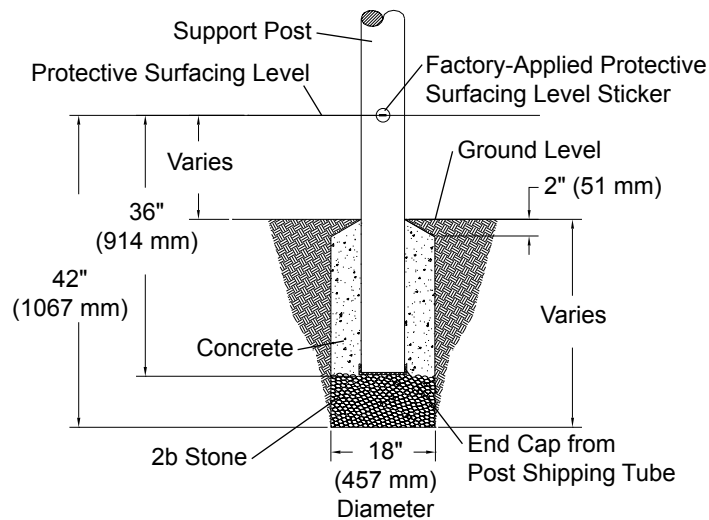
Maintenance

- 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.

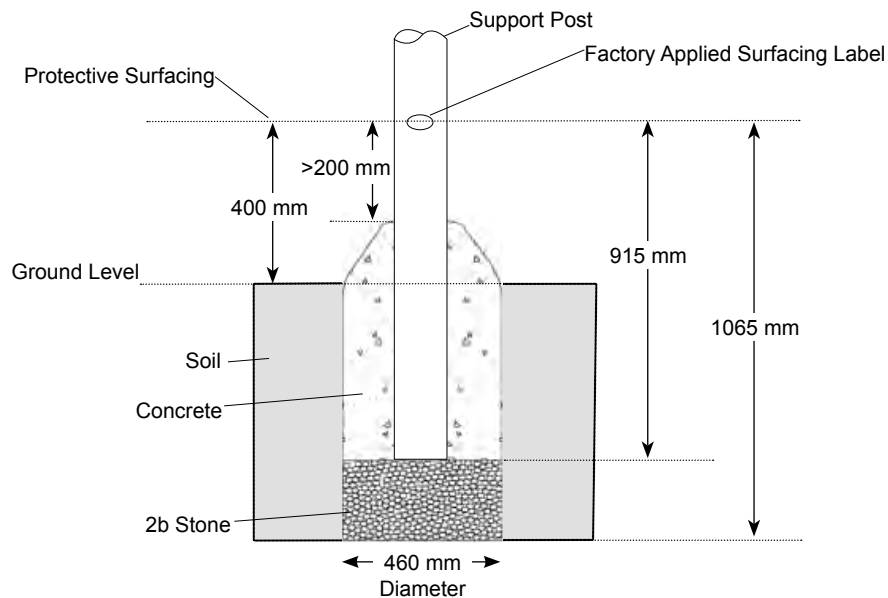
Supervision Guidelines

- 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



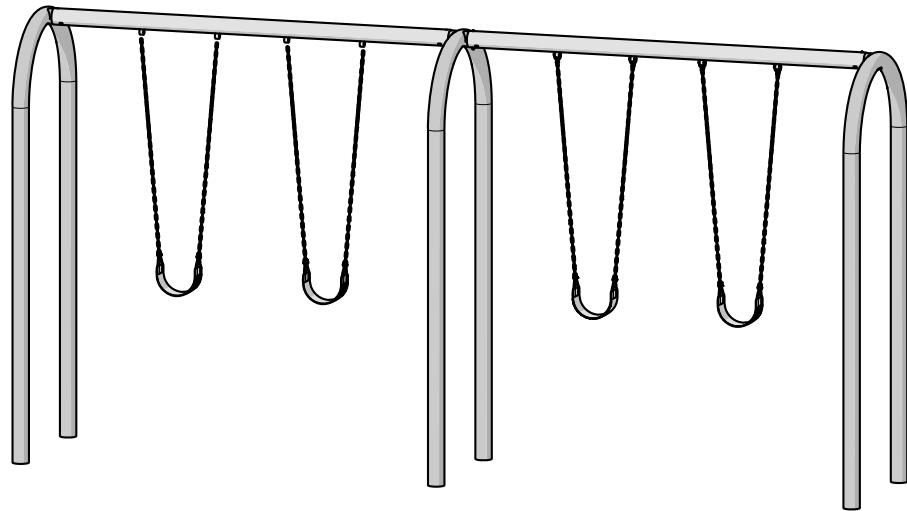
Support Post Footing Detail (ASTM/CSA)



Footing Detail 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).
- 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

Installation Instructions

Playworld Systems® Model ZZXX0834

5 in. Outside Diameter

Aluminum Arch Swing

2-Unit Bay Addition

Installation Preparation

Recommended Crew: Three (3) adults








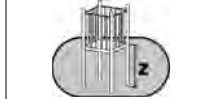
Installation Time: 2 man-hours

Concrete Required: 0.24 cubic yard (0,18 cubic meters)

Use Zone:..... Refer to the information on pages 1 & 2

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

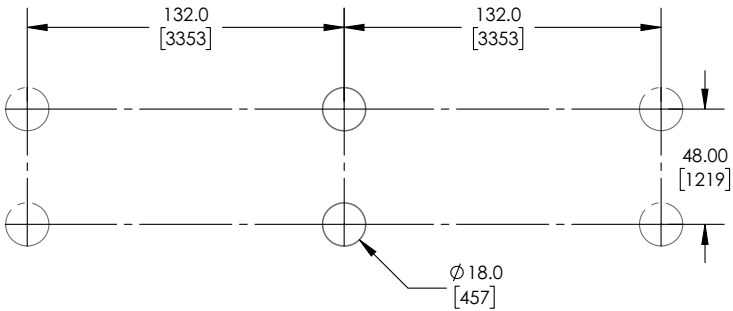
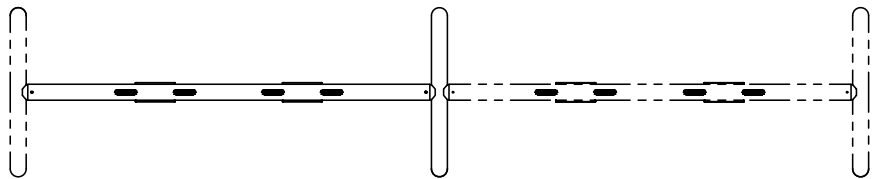
ICON KEY

	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]

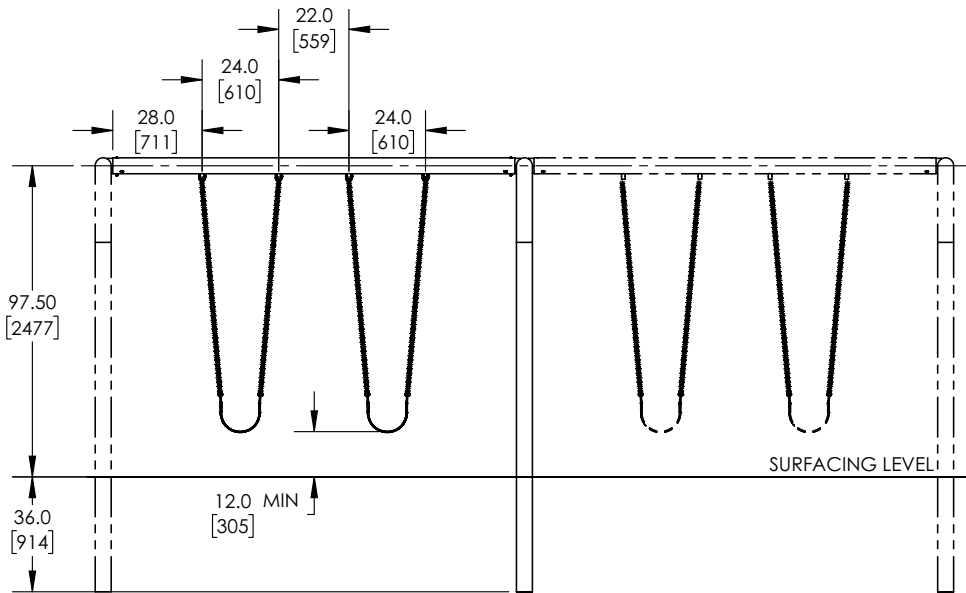
Top View



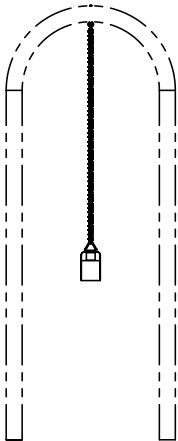
Footing Diagram

Notes:

1. Seat assemblies are sold separately.
2. Existing arch post is replaced by middle arch support and moved to the end of the bay section.

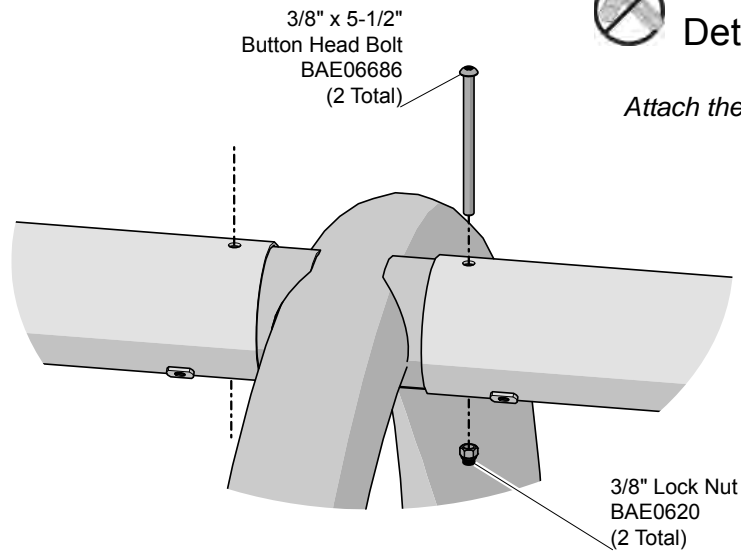
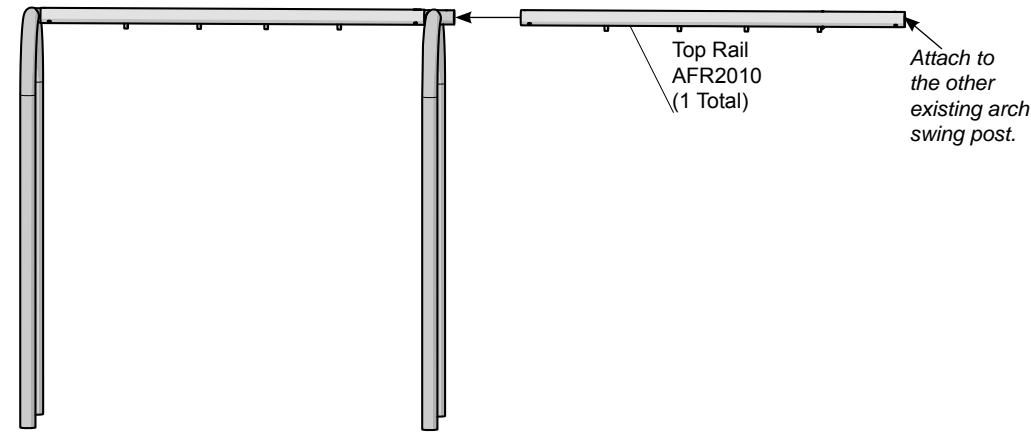
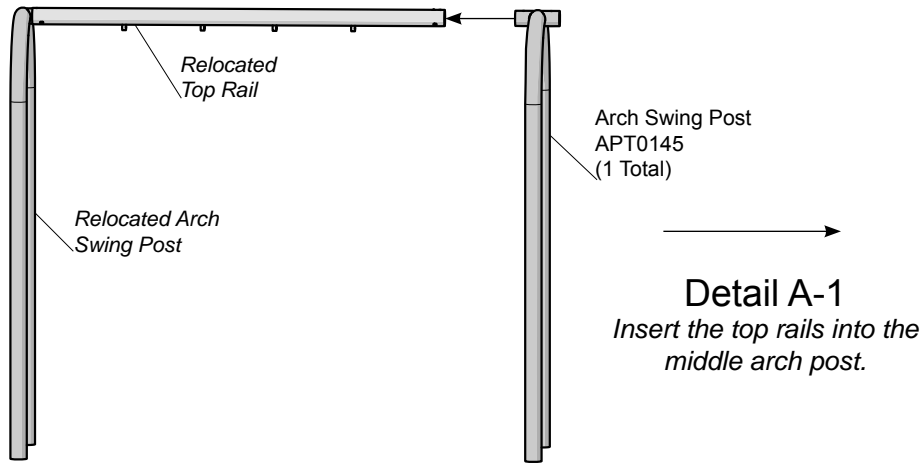


Elevation Views




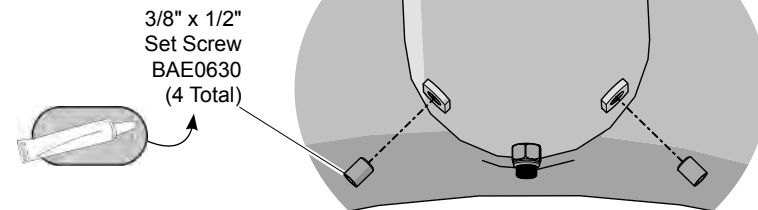
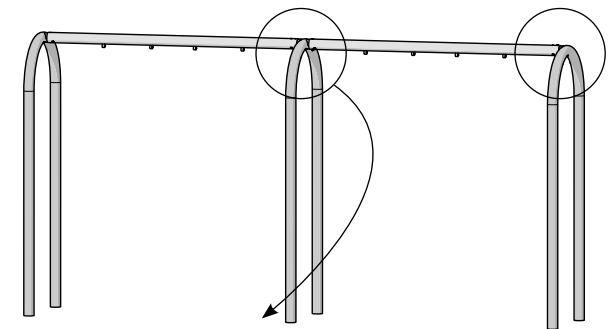
Installation Instructions

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



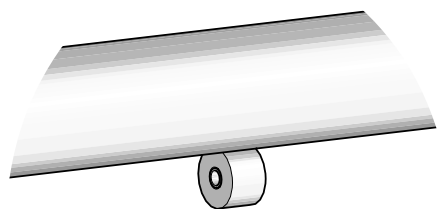
Detail A-2
Attach the top rails to the middle arch post.

 **Details A-1, A-2 and A-3**
Step 5
Attach the top rail to the arch support posts.

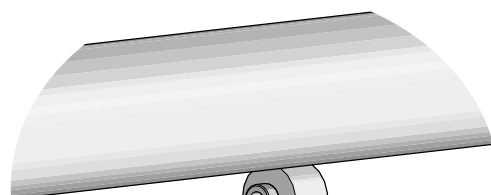


Detail A-3
(Underneath View)
Secure the top rails to the arch posts.

Installation Instructions



Swing Clevis
984429
(4 Total)



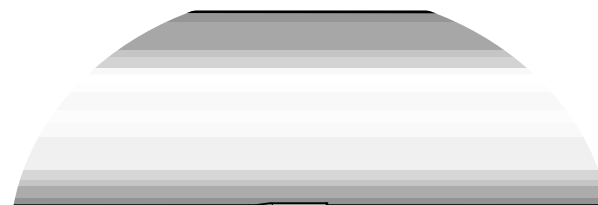
7/16" x 1.5" Button Head Bolt
104467
(4 Total)

***Insert through the non-threaded
side of the clevis first.



Detail B
Step 8

Attach the swing clevises to the top rail.



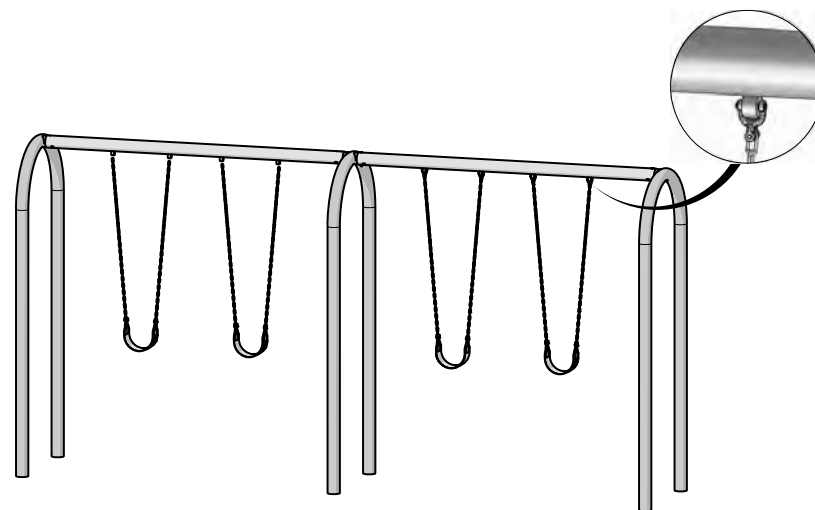
***Insert through the non-threaded
side of the clevis first.

3/8" x 1-1/4"
Button Head Bolt
w/ patch
BAE0667
(4 Total)



Detail C
Step 9

*Thread the bolt into the clevis for
attachment to a swing seat chain.*



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** on page 4 of this installation document.

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. Unbolt the support post from the existing footing and transplant it to the opposite end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to *Step 5*.

New Installation

Step 5: Attach both top rails (new and existing) to the middle arch post. See **Details A-1, A-2 and A-3**. Place the middle arch support into the prepared footing and brace. Place the top rails onto the arch stubs and align holes. Attach as shown.

Step 6: Re-attach the arch support to the opposite end of the frame using the existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: 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. Block and brace for concrete. Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the Footing Detail. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Step 8: Attach the swing clevises to the top rail. See **Detail B**. Position a swing clevis over the tab on the top rail, and align the holes.

Step 9: Thread bolt into the swing clevis. See **Detail C**. 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: 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 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

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. Labels are to be plainly visible according to current playground equipment guidelines.

XX0834 - 5 in. O.D. 2-UNIT ALUMINUM ARCH ADD-A-BAY

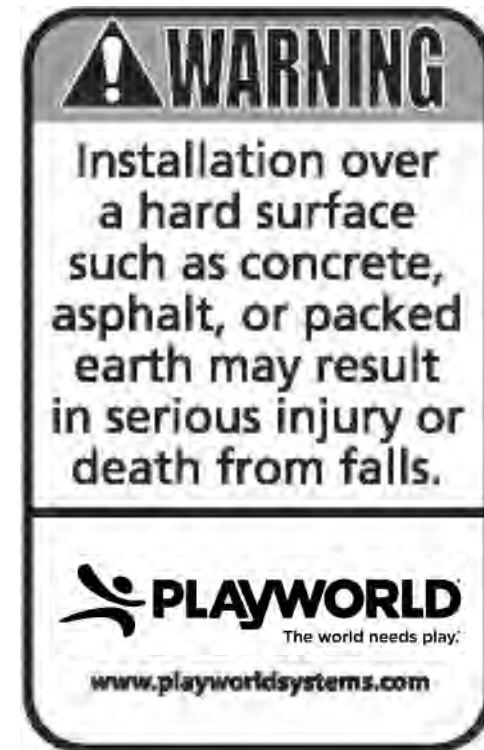
PART NO.	DESCRIPTION	QTY.
104467	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	4
984429	CLEVIS - SWING HANGER	4
AFR2010	SWING TOP RAIL - 5.00" O.D. x 126.00"	1
APT0145	POST - 5.00" O.D. x 133.50" DUAL ALM ARCH SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x .50"" SOCKET SET SS	4
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/NYLON PATCH	4
BAE0905	WRENCH - 3/16" HEX KEY	1
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	1



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

- 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.
- 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.
- 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

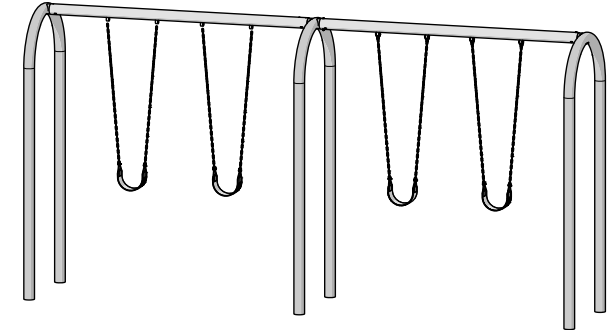
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®

Model XX0834

5 in. Outside Diameter
Aluminum Arch Swing
2-Unit Bay Addition





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1000 Buffalo Road • Lewisburg, PA 17837
www.playworld.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 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: ___ / ___ / ___

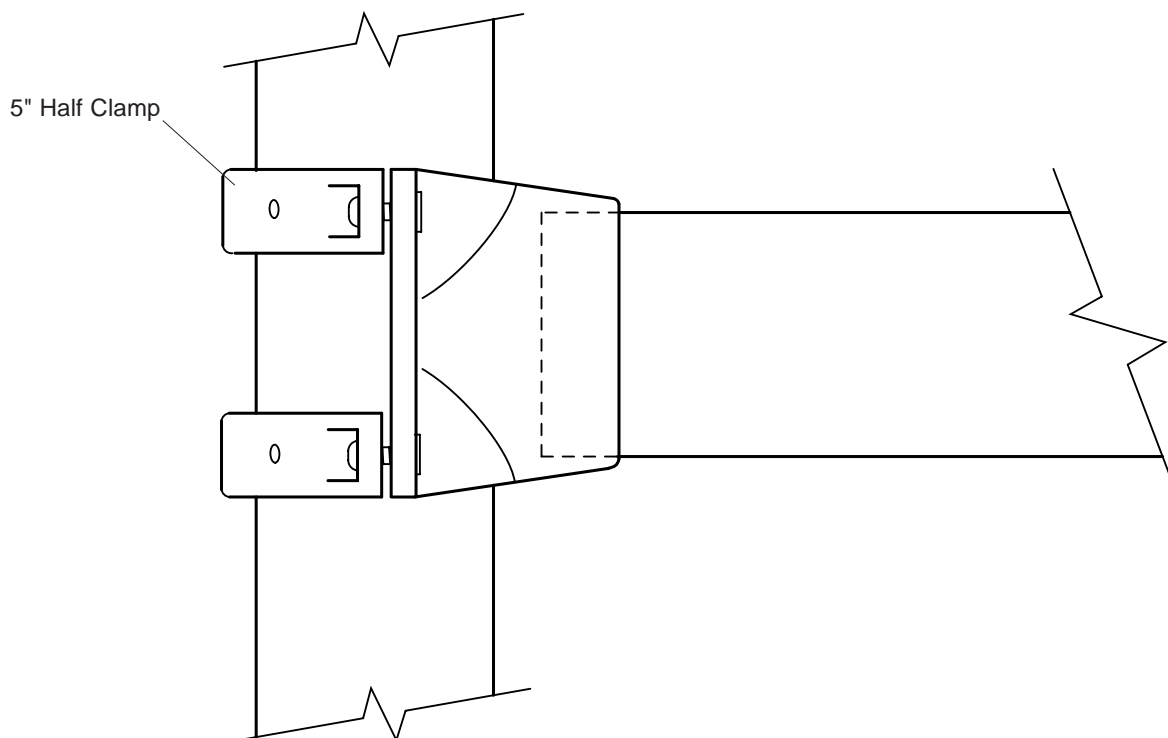
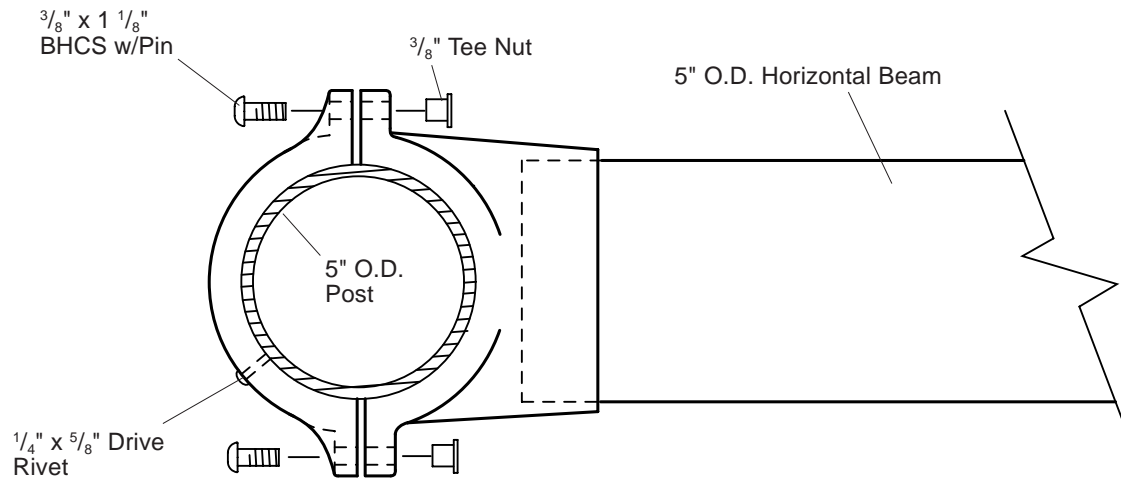


SEGOE PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

Segoe Install Specs

110070 is the Site Plan
Not an Install doc.



PlayBooster® Tee Clamp Assembly

Parts List

Part#	Description	Qty
105327-01	5" Half Clamp, Specify Color	2
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100351-00	$\frac{3}{8}$ " Tee Nut, SST	4
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, SST	2

Specifications

Tee/Beam:	356 alloy treated to T-6 hardness and welded to 5" aluminum beams or mechanically fastened to 5" steel beams. Finish: Powdercoat, color specified.
Half Clamps:	Cast aluminum. Finish: Powdercoat, 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:	2 lbs.

Installation Instructions

- 1) Locate and mark center of clamp location on 5" pipe.
- 2) With beam in position, fasten 5" half clamps to tee clamp using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin and tee nuts as shown. Tighten cap screws evenly.
- 3) **IMPORTANT:** *Install drive rivets in half clamps by drilling holes in clamps and into 5" pipe using a $\frac{1}{4}$ " or "F"(only) drill bit. Insert rivet in hole, and hammer rivet pin in until it is flush with head.*

115176 is a hard
surface label

Not an Install doc.

NOTE:

Surface mounting will not work in all applications. Consult Landscape Structures Inc. for your particular requirements.

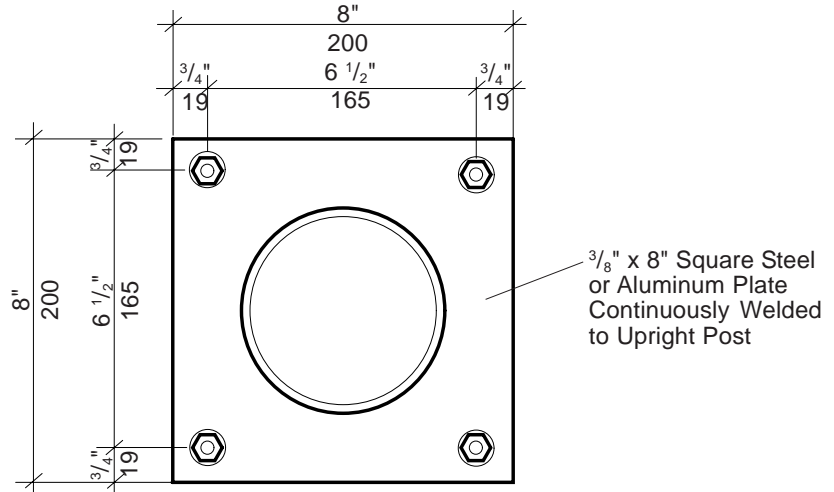
CONCRETE SLAB SPECS

- Base under slab to be 4" - 6" of sand over a stable subgrade.
- Depth of concrete slab to be 4" - 6" with a wire mesh support.
- Minimum of 7 days curing time full cure after 30 days.
- Surface of concrete to be trowled smooth and acid etched.
- Concrete: 3000 PSI (Min)
30 Days 3500 PSI
 $\frac{3}{4}$ " Minus Crushed Rock

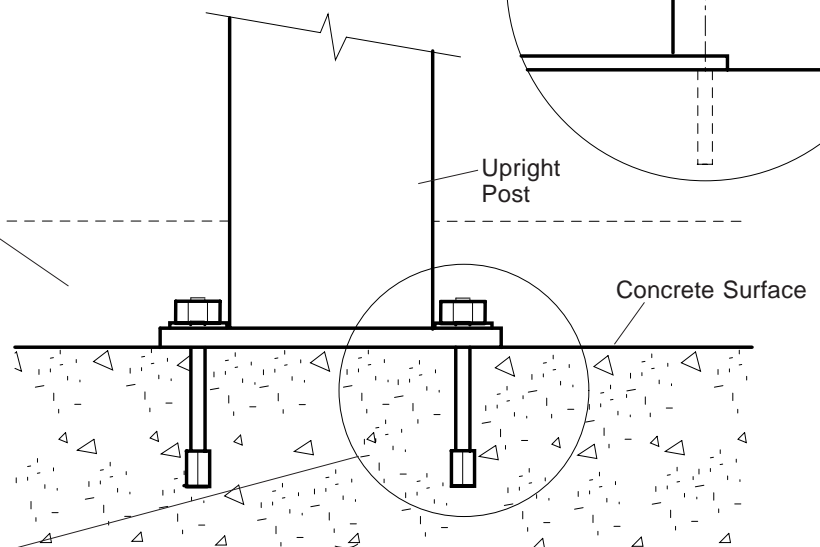
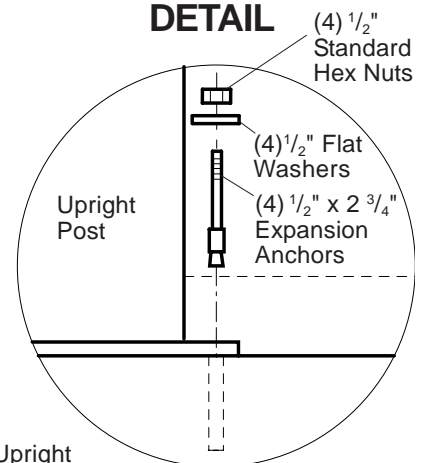
NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

NOTE:

Drill 3" deep hole using hammer drill and $\frac{1}{2}$ " masonry bit. Tap anchors into concrete and secure with $\frac{1}{2}$ " standard hex nuts and $\frac{1}{2}$ " flat washers.

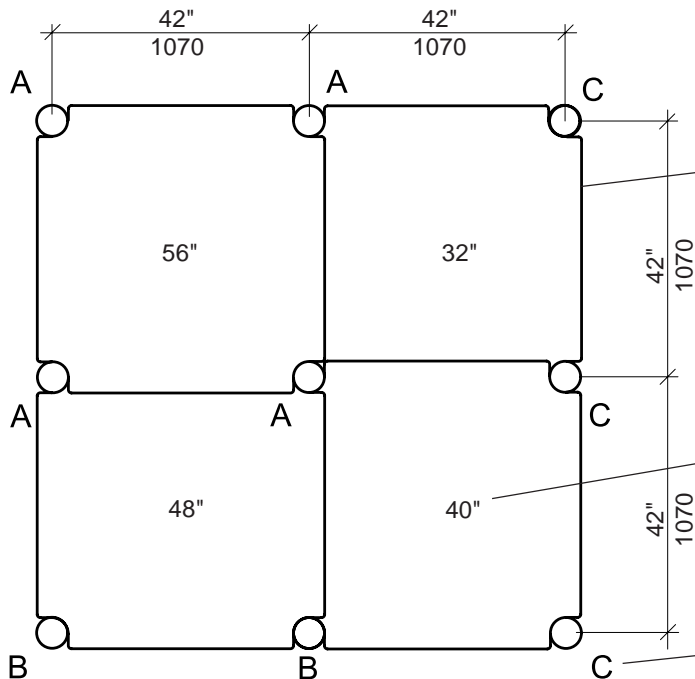


DETAIL



SAFETY NOTE

Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487, SECTION 9.)

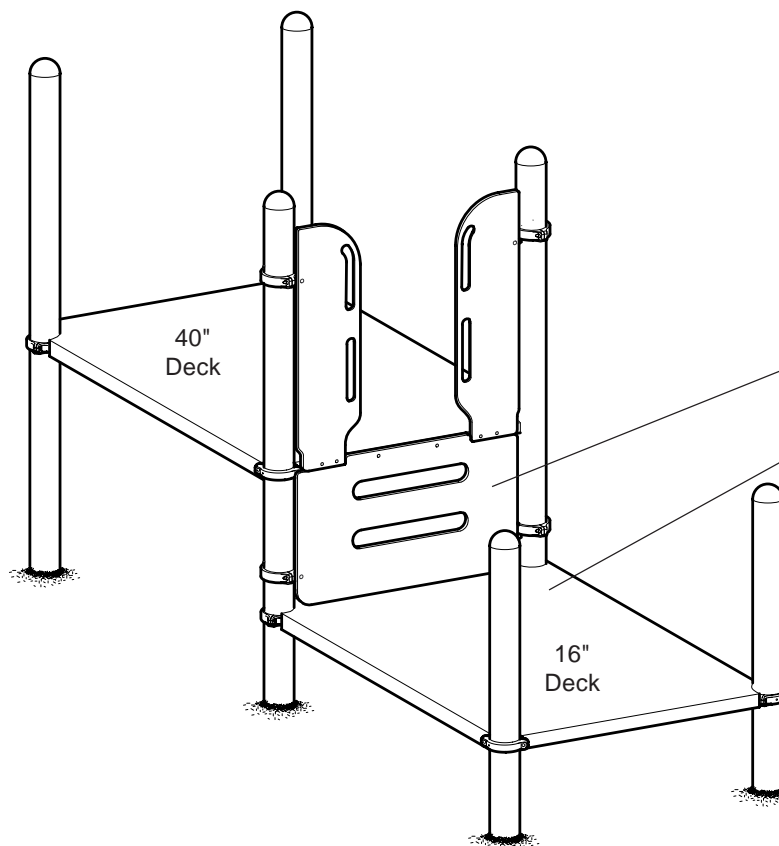


Enclosures or components are required on any decks higher than 28" as indicated on your plan drawing.

Dimension indicates center to center spacing of concrete footings.

Number indicates height of deck above finished grade.

Letter indicates post length as indicated on your plan drawing.



Enclosures/ Components - Refer to your plan drawing for locations and their respective spec sheets for installation.

Vertical Ladders - Refer to your plan drawing for locations and the Vertical Ladder spec sheet for installation.

Decks - Refer to your plan drawing for heights and orientation. Refer to the appropriate deck spec sheet for installation.

Deck Hanger Clamp Assembly - Refer to the appropriate Deck Assembly spec sheet for installation.

Concrete Footings - Refer to the Typical Concrete Footing spec sheet for installation.

Kick Plates - Refer to your plan drawing for locations and the Kick Plate spec sheet for installation.

PlayBooster General Post/Tenderdeck Information

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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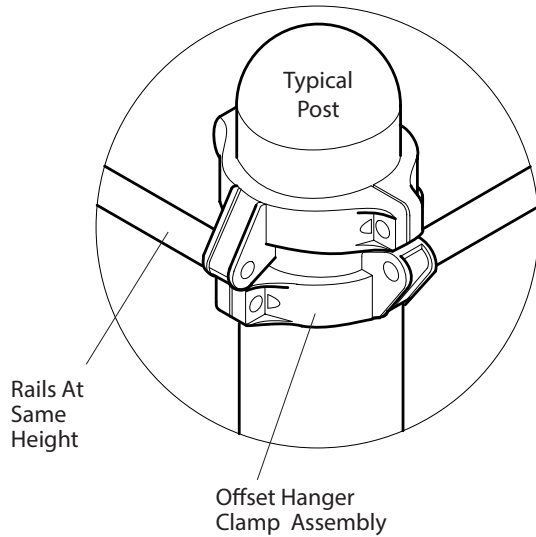
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Installation Instructions

Before Starting, Read the General Construction Guidelines, Installation Hints, All Typical Detail Sheets and Specific Installation Instructions for Each Component Labeled on Your Plan.

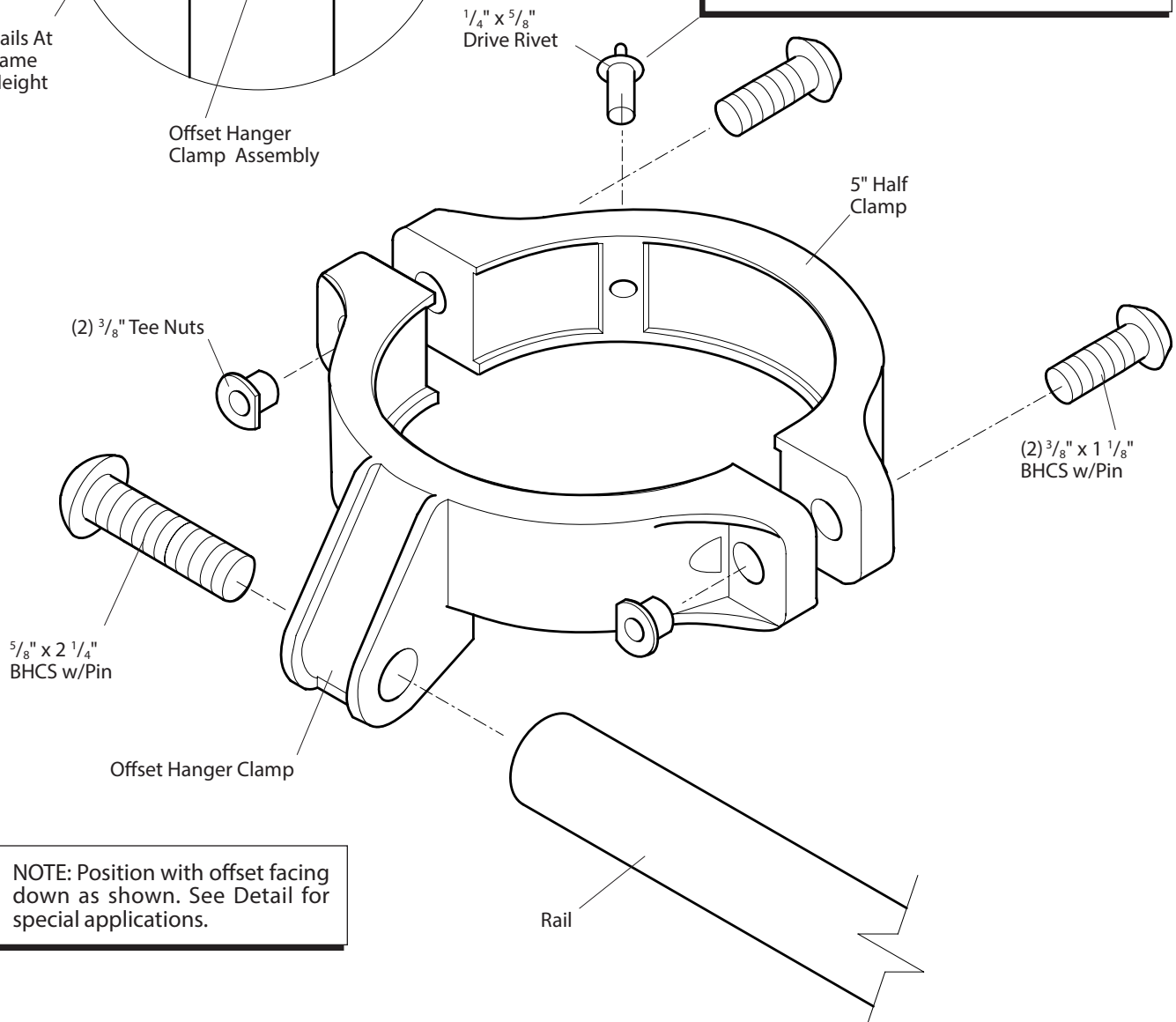
- 1) Dig footing holes spaced as shown on the plan and spec sheets. Refer to the Typical Concrete Footing Spec Sheet.
- 2) Note the post lengths as shown on the plan and set in their appropriate footing holes. The post length is indicated on the finished grade sticker on each post.
- 3) Mark the appropriate posts for the deck heights you are installing and attach decks to posts at marked height. Refer to the appropriate deck spec sheet for installation.
- 4) After all the posts are at proper heights and plumb, and the decks are at proper height and level, pour the concrete footings per the Typical Concrete Footing Spec Sheet.
- 5) Continue installing enclosures and components and pour concrete footings as you progress, making sure everything is plumb and level.
- 6) When installation is complete, install Drive Rivets in all clamps per the Typical Offset Hanger Clamp Spec Sheet.
- 7) Install protective surfacing under and around all equipment before users are allowed to play on the structure.

**DETAIL
ASSEMBLED CLAMP**



The Offset Hanger Clamp allows rails to be installed at same height for special applications, like at 90° to each other as shown, or when there are clamp conflicts, offset can be positioned upward.

NOTE: A drive rivet is not required in all applications. See General Rules for Use of Drive Rivets for more information.



NOTE: Position with offset facing down as shown. See Detail for special applications.



J:\SPEC\123\12382100.P65

PlayBooster 114261 Offset Hanger Clamp Assembly

Parts List

Part#	Description	Qty
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
105327-01	5" Half Clamp, Specify Color	1
113729-00	Offset Hanger Clamp, Specify Color	1
100203-00	$\frac{5}{8}$ " x $2\frac{1}{4}$ " BHCS w/Pin, SST	1

Specifications

Clamp: Cast aluminum. Finish: Powdercoat, color specified.

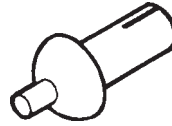
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. $\frac{1}{4}$ man hour

Weight: 3 lbs.

Installation Instructions

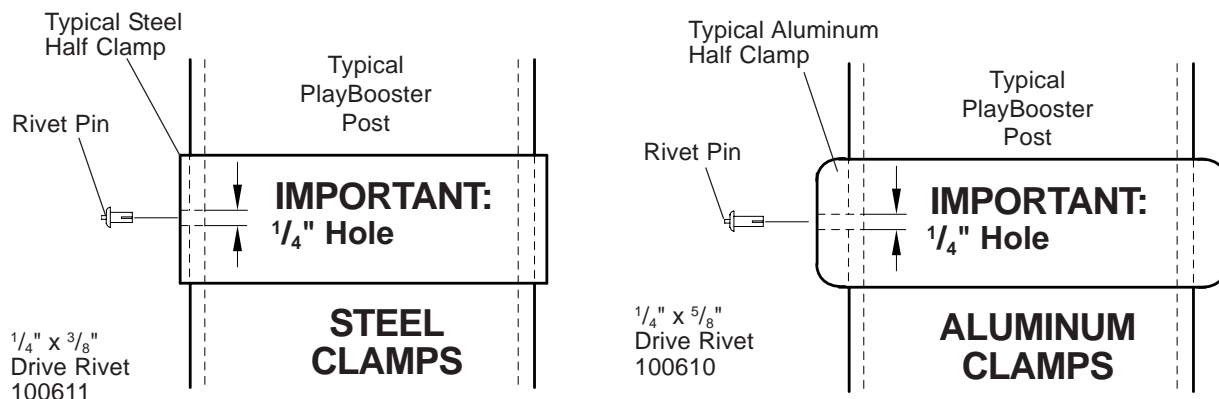
- 1) Locate and mark position of clamp on 5" post.
- 2) Position clamp in proper direction and assemble with $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts as shown and lightly tighten. Position rail against clamp and screw in $\frac{5}{8}$ " x $2\frac{1}{4}$ " BHCS w/pin until rail bottoms out on clamp. Final tighten all fasteners.
- 3) **IMPORTANT:** *Drill through hole in 5" half clamp and into 5" post with a $\frac{1}{4}$ " or "F" (only) drill bit, insert rivet in hole and hammer rivet pin in until it is flush with head.*



General Rules For Use Of Drive Rivets

- Rivets are used as "Insurance" to keep clamps from sliding down the posts. In many cases this "Insurance" is achieved in other ways; i.e. Panels that attach to the deck face.
- Refer to the Spec Sheet Parts List and follow Installation Instructions for each component.
- Decks and Overhead Events always need rivets.
- Any component fastened to the Deck does not need rivets.

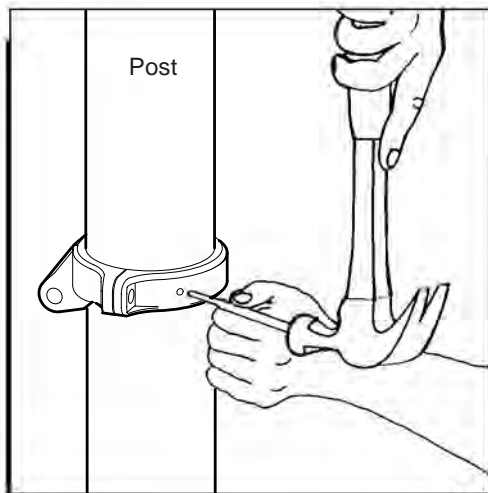
Benefits of not installing unnecessary rivets: saves time, it makes clamp adjustments as well as the removal of clamps for replacement or adding phases much easier, and you will have fewer damaged clamps or posts due to poor installation techniques.



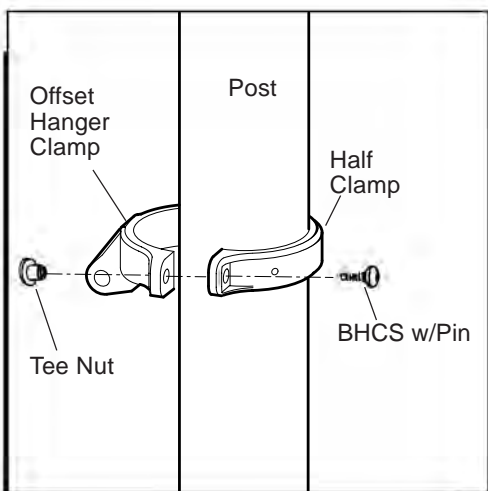
INSTRUCTIONS:

NOTE: Use Only Bit Size "F" or 1/4" Drill Bit.

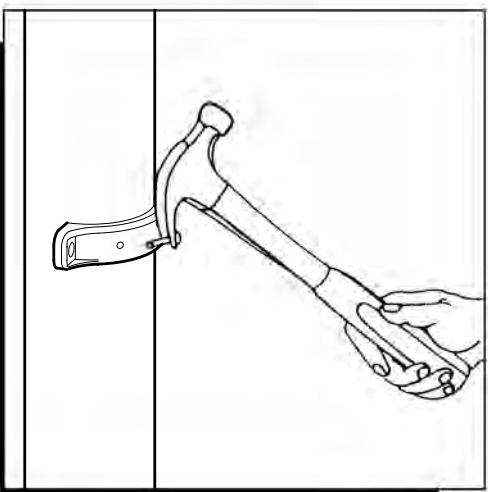
After Play Component Assembly is Complete, Drill Hole into Post Through Half Clamp, Insert Rivet in Hole, and Hammer Rivet Pin in Until it is Flush with Head.



- 1) **Drive Center Pin of Rivet Straight into Post Using $\frac{1}{8}$ " Diameter Punch and Hammer.**



- 2) **Unbolt BHCS w/Pin and Tee Nuts from Clamp Using Tamperproof Hex Wrench. Remove Offset Hanger Clamp. Lightly Tap on Half Clamp with Hammer Until Head of Drive Rivet Pulls Away From Half Clamp.**



- 3) **Pull Out Drive Rivet Using Claw End of Hammer.**

Tools Needed:

- Claw Hammer
- $\frac{1}{8}$ " Diameter Steel Punch
- Tamperproof Hex Wrench

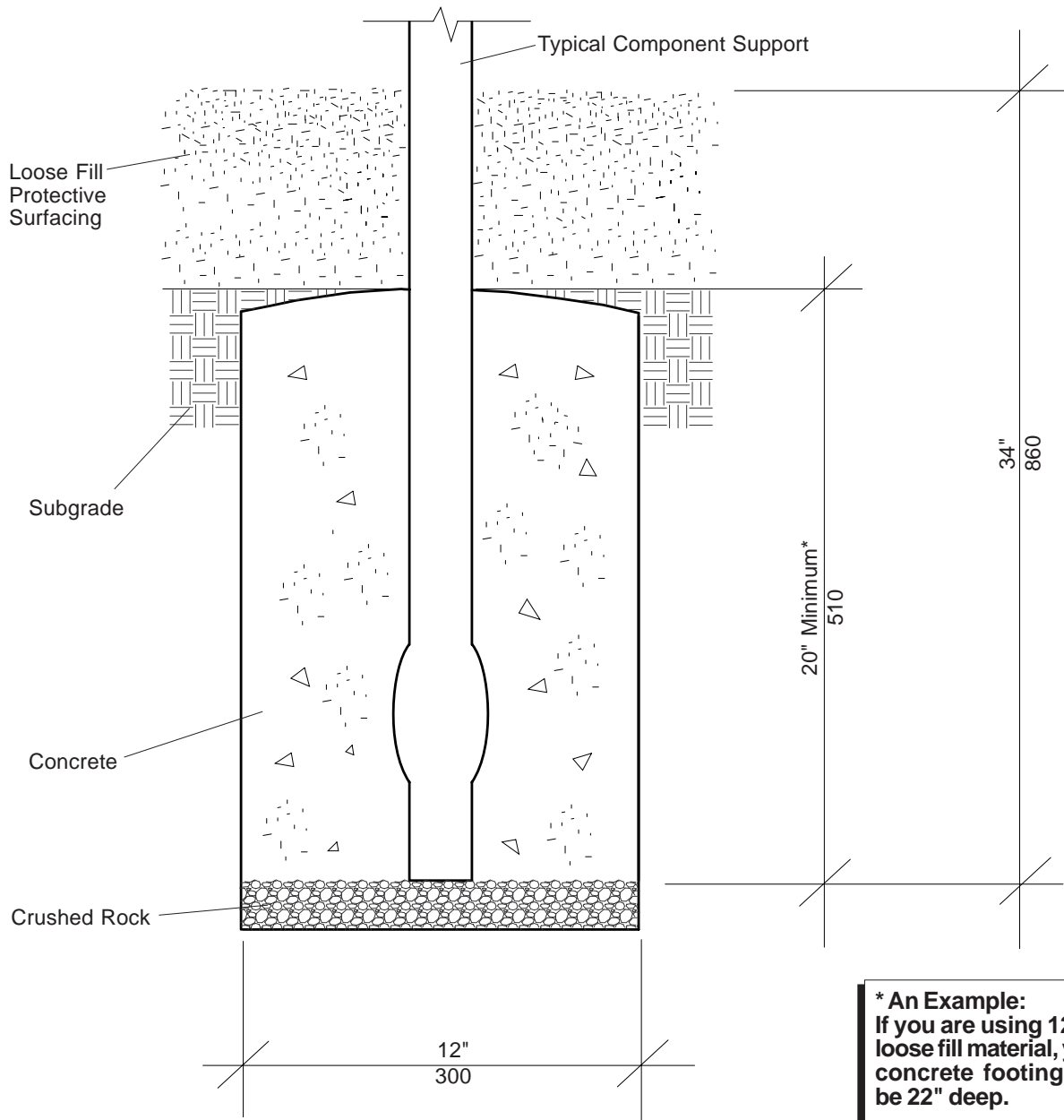
Drive Rivet Removal

120688 is a danger
keep off sign

Not an Install doc.

120688 is a danger
keep off sign

Not an Install doc.



Minimum 1.2 Cubic Feet of Concrete Required per Support.

PlayBooster Installation

- 1) Before starting installation, study your *PlayBooster* plan drawing and all installation instructions carefully for location of posts, deck heights, components and safety enclosures. Make sure slides are oriented away from the afternoon sun and that the structure is visible (easily supervised) and accessible.
- 2) Clear an area large enough for your *PlayBooster* and at least the required minimum use zone around it, as shown on your plan drawing. The subsurface must be well drained. If the soil does not drain naturally it must be tiled or sloped at $\frac{1}{8}$ " to $\frac{1}{4}$ " per foot to a storm sewer or a "French Drain". If your *PlayBooster* is over 30' in length it is recommended to install more than one "French Drain" or similar system to allow drainage from the center of the play area and decrease the overall slope. If this is not possible, the structure may need to be "stepped" to take up the grade change.
- 3) Overhead Obstructions: Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example, tree limbs) shall be at least 84 in. (2130 mm) above each designated play surface or 84 in. (2130 mm) above the pivot point of swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes, such as the National Electrical Safety Code.
- 4) Locate all mainstructure post footing holes according to the dimensions shown on your *PlayBooster* plan. This can be accomplished by laying a deck on the ground and measuring from it; by laying out a base line string grid or using a builders transit. This step is very important and worth taking extra time to be precise. Location of component footings such as slide supports can be done at a later time.
- 5) Refer to the Typical Concrete Footing installation sheet. Dig holes to the proper width and depth as shown. (Only dig enough holes for one day's construction. Do not leave holes open over night.) Pour crushed rock in each hole **level with each other** and at least 4" deep as shown. This can be easily accomplished either with a builders transit or by laying out hole locations with a string grid, leveling the grid, and measuring down from the grid for each footing. Tamp the crushed rock down until compacted and at proper level. This step is important to ensure all posts will be at the proper height relative to each other, and it greatly simplifies installation. If the soils are loose or unstable, larger diameter holes may be necessary. Check with a local engineer if in doubt.
- 6) Start with the lowest deck and work your way to the highest deck following instructions on the installation sheets for typical post/deck assembly. Install barriers and roofs as located on the plan for stability.
- 7) After the posts are at proper heights and plumb, and the decks are at proper height and level, pour the concrete footings per the Typical Concrete Footing Detail.
- 8) During construction, the site and all the material on it must be secured when unattended to prevent children from playing on them. Do not leave decks with unprotected openings when unattended-use temporary barricades if necessary.
- 9) Install all other play components per the installation instructions. After all components and enclosures are properly attached, pour the remaining concrete footings per the Typical Concrete Footing Detail.
- 10) Install protective surfacing material.
- 11) Attach play hardware such as 'D' rings and swing seats last, **after** protective surfacing is in place and footings have cured at least 3 days.
- 12) Carefully and thoroughly inspect the entire *PlayBooster* to be sure all fastening hardware is tight. According to ASTM F1487, section 6.2 sharp points, edges and protrusions; any exposed bolt ends should not protrude beyond the face of the nut more than two (2) threads. This condition is not planned, but may exist in some applications because materials and finishes will vary. To remedy this situation, add a second nut or washer(s), extras have been added to the spare parts kit. See illustrations on reverse side of this sheet. Children should not be allowed on the structure until this inspection is complete.
- 13) Before children are allowed on the structure, the site must be cleaned and free of all construction debris and packaging material. Do not burn on the site.

Tools Required

Tools required for installation are an auger, or other equipment for digging 14" diameter footing holes; shovels, rubber mallet, drill (with $\frac{1}{4}$ ", $\frac{7}{16}$ ", $\frac{9}{16}$ ", $\frac{11}{16}$ " and $\frac{3}{8}$ " drill bits), tape measure, hex keys or allen wrenches, level, $\frac{3}{8}$ " socket set, hammer, open end wrench set, screw driver, for surface mount a hammer drill, $\frac{3}{8}$ " and $\frac{1}{2}$ " masonry bits and transit or string line to aid in layout. Some washable felt tip pens are also useful for marking clamp locations.

Materials Required

All *PlayBooster* materials are supplied except concrete for footings, protective surfacing material, and curbing or edging material. With the exception of the special wrenches required (for the pinned hex fasteners) no other tools are supplied.

Recycling

Many of our packaging materials can be recycled, please take the time to separate and deliver them to a recycler. Thank You.

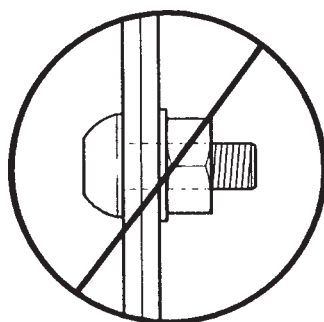
Installation Times

Installation times, as noted on the back of the installation sheets, are *approximate* and will vary depending on soil conditions, installer's equipment and ability. Times indicated *do not* include unloading or unpacking equipment. The man hours given are for one person installing (unless otherwise noted). Cut time in half for two people.

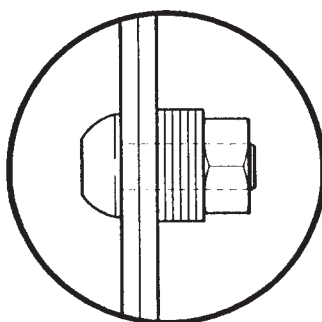
Technical Services

If you have any questions or concerns about the installation of your structure, call our Technical Services Department at: **1-800-328-0035** (7:30 - 5:30p.m. CST/M-F).

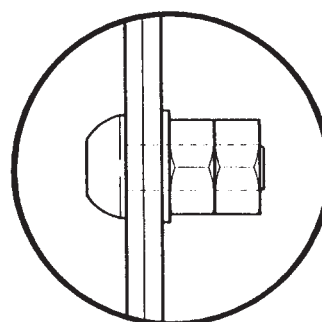
Illustrations For Note 10, (Reverse Side Of This Sheet)



More Than Two (2)
Threads Exposed



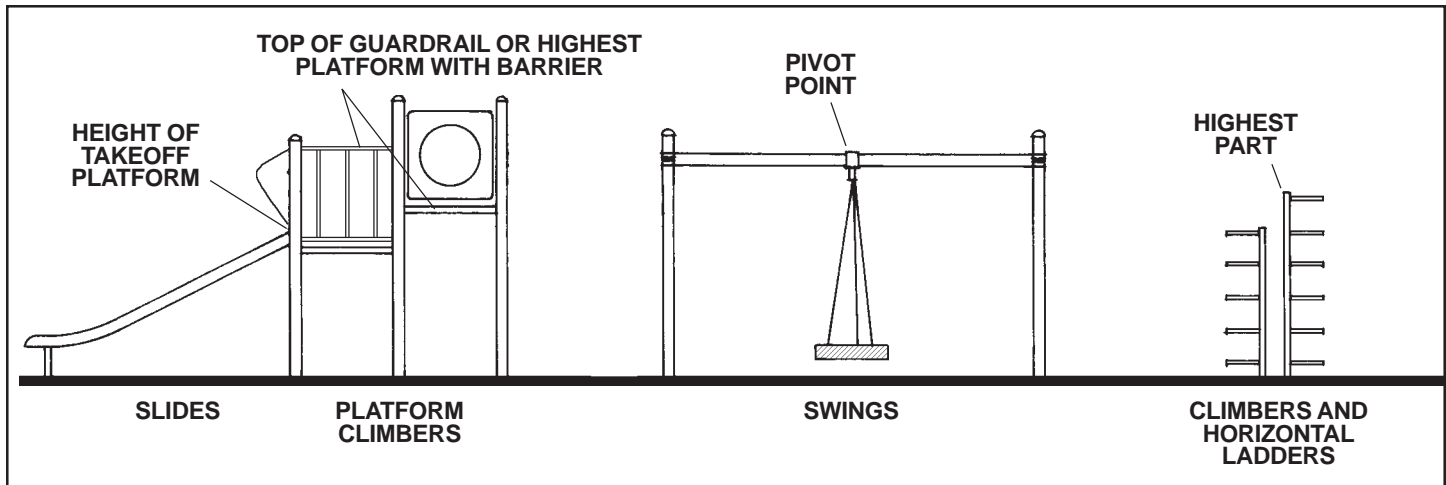
Add Washers



Add Another Nut
(Align Flat Area)

SAFETY NOTE

Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



- 1.) Determine the highest accessible part - by definition.
- 2.) Determine the type of surfacing material desired:
 - *Unitary* - Bound rubber type materials for the accessible areas.
 - *Loose-fill* - Sand, wood chips, etc. for non-accessible areas.
- 3.) Select a material that has a Critical Height value of at least the height of the highest accessible part.
 - According to the CPSC, Critical Height is defined as the maximum height from which the instrumented metal headform, upon impact, yields both a peak deceleration of no more than 200 G's and a HIC value of no more than 1,000 when tested in accordance with the procedure described in the ASTM Test Method F1292.
 - Request independent laboratory test results showing the critical height of each product per the above procedures for commercially available products. The CPSC has tested some common loose-fill materials that are commonly not tested as a protective surfacing. (See back page.)
- 4.) Cover the designated use zone with the desired materials. If a different type of material is used for the accessible route of travel, make sure the surfaces are maintained flush.

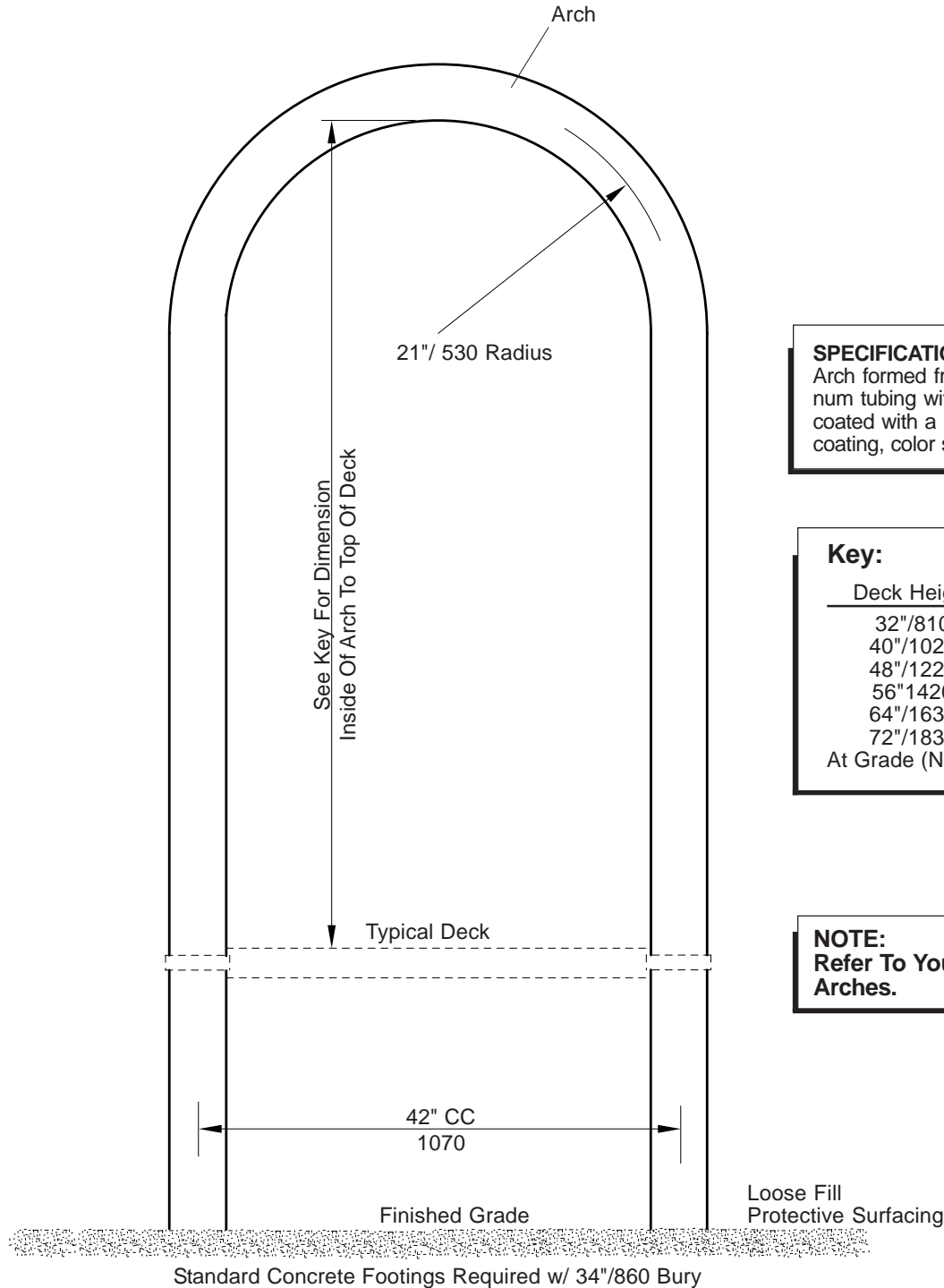
Critical Heights (in Feet)

Material	Uncompressed Depth			Compressed Depth *
	6"	9"	12"	9"
* Wood Mulch	7'	10'	11'	10'
* Double Shredded Bark Mulch	6'	10'	11'	7'
* Uniform Wood Chips	6'	7'	12'	6'
* Fine Sand	5'	5'	9'	5'
* Coarse Sand	5'	5'	6'	4'
* Fine Gravel	6'	7'	10'	6'
* Medium Gravel	5'	5'	6'	5'

NA = Not Available

- * **NOTE:** Compressed depths most accurately depict conditions on a playground.
- * An approximation of the maximum fall height from which a life-threatening head injury would not be expected to occur, based on tests in which a headform yielded both a peak deceleration of less than 200 G's and a HIC of less than 1000 upon impact.
- * Handbook for *Public Playground Safety*, published by the U.S. Consumer Products Safety Commission, Section 10, Table 2, page 21.

Critical Heights



SPECIFICATIONS:

Arch formed from 5" O.D. 6005-T5 aluminum tubing with 1/8" wall thickness. Unit is coated with a baked-on polyester powder-coating, color specified.

Key:

Deck Height	Dimension
32"/810	92 1/2"/2350
40"/1020	98 1/2"/2502
48"/1220	90 1/2"/2299
56"/1420	98 1/2"/2502
64"/1630	90 1/2"/2299
72"/1830	90 1/2"/2299
At Grade (No Deck)...	97 1/4"/2470

NOTE:

Refer To Your Plan For Location Of Arches.

"How to distribute your hardware *Headache Free*"



We have received feedback from you, our customers, that the most common delay in completing your playground installation is lost or misplaced hardware.

Some of our most successful installations have used a "*check-out*" system with one person appointed to distribute the various hardware packages. Installation sheets are provided for each component that indicate hardware packages/items required to assemble that component. Refer to these sheets to determine which hardware items to request from the designated "*check-out*" person.

HELPFUL HINTS:

- Read installation sheets.

- Be sure to use the correct length hardware as specified on the installation sheets.

- Be sure to use clamps in the correct location as indicated on the installation sheets.

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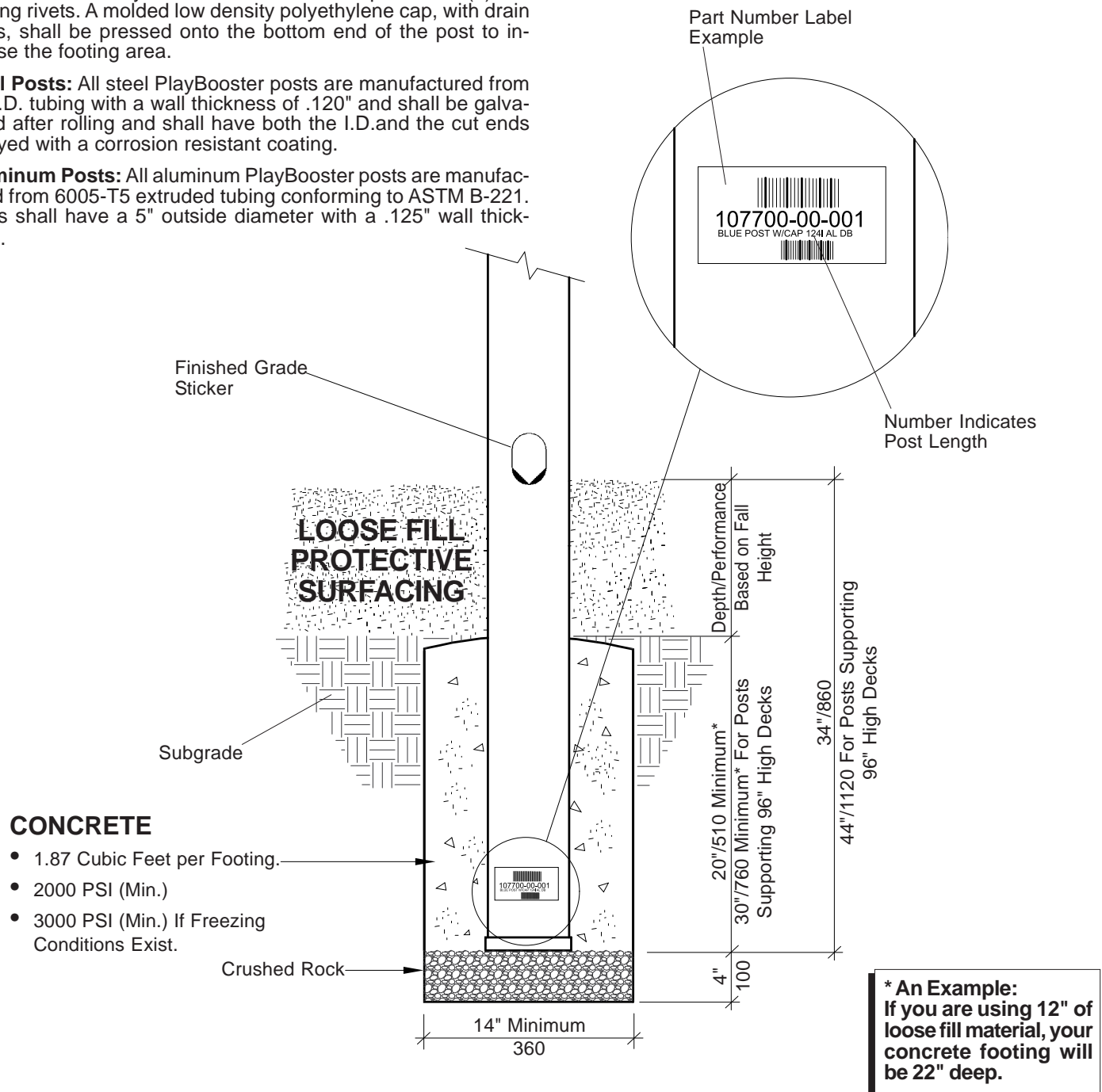
- Be sure to use the correct length hardware as specified on the installation sheets.

- Be sure to use clamps in the correct location as indicated on the installation sheets.

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.



Warning

Your playground may include equipment containing moving parts. Moving parts are more vulnerable to wear, mis-use and abuse than other non-moving parts. It is critical these parts be inspected and maintained according to our recommendations.

As the owner, it is your responsibility to perform preventative maintenance and record your findings. Failure to do so may create a hazard and cause serious injury or death.

Warning

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IMPORTANT SAFETY NOTES!

According to the U.S. Consumer Product Safety Commission (CPSC) nearly 70% of all playground injuries are caused by falls to the surface.

**PLEASE INSTALL AND MAINTAIN
ADEQUATE PROTECTIVE SURFACING
UNDER AND AROUND YOUR
PLAYSTRUCTURE!**

Never let children play on the equipment
before protective surfacing is installed.

Consult the CPSC's Handbook for
Public Playground Safety, the ASTM F1487 Standard
or your Landscape Structures representative
for more information.



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for more information.



Did you know that most of the packaging materials you receive on a Landscape Structures order are recyclable? Do you reuse or recycle everything you can from your playground sites? We're making it easier for you to do the right thing and keep these materials out of landfills!

FOAM/SCRIM SHEETS

Landscape Structures has partnered with our supplier to recycle foam/scrim material, the grey and white sheets that are layered between the large painted parts. This material is not usually accepted at general recycling facilities but this supplier will re-use it in their manufacturing of new packaging materials. It's easy! Just put the foam/scrim from your installation site in a box and ship it to the facility closest to you.

Here is a list of participating facilities throughout the U.S.:

Foam/Scrim Products Only

Pregis Plant
159 N San Antonio Ave.
Pomona, CA 91767

Pregis Plant
8201 W Elwin Ct.
Visalia, CA 93291

Pregis Plant
7574 Presidents Dr.
Orlando, FL 32809

Pregis Plant
1411 Pidco Dr.
Plymouth, IN 46563

Pregis Plant
300 Harris Rd.
Wurtland, KY 41144

Pregis Plant
3825 N Main St.
Granite Falls, NC 28630

Pregis Plant
18 Peck Ave.
Glens Falls, NY 12801

Pregis Plant
3500 S Highway 287
Corsicana, TX 75109

Pregis Plant
310 Old Station Rd.
Wenatchee, WA 98801

Foam/Scrim, Plastic Banding, Shrink Wrap

Anchor Facility
480 Broadway St.
St Paul, MN 55101

Anchor Facility
1501 Swasey Rd.
Hudson, WI 54016

Don't stop here! Most of the other packaging materials can also be recycled, reused or repurposed.

- **CORRUGATED CARDBOARD:** Boxes can be broken down and recycled at a local recycler, or reused for other storage.
- **SHRINK WRAP:** Contact your local plastic recycler and ask if they accept polyethylene plastic.
- **PLASTIC BANDING:** Contact your local plastic recycler and ask if they accept polypropylene.

If you have suggestions for recycling, reusing or repurposing other materials, please email them to: info@playlsi.com. Just one more way Landscape Structures is building healthy, sustainable communities.

182212 is an
entanglement label

Not an Install doc.

182213 is a hot surface
label

Not an Install doc.



Look for compliance to the following guidelines and standards whenever you install playground equipment. It's your assurance that the products you install meet the most rigorous safety and quality assurance standards.

Landscape Structures is a member in good standing of **IPEMA**, the **International Play Equipment Manufacturers Association**. IPEMA is a member-driven, international trade organization that represents and promotes an open market for manufacturers of play equipment.



In the interest of playground safety, IPEMA provides a Third Party Certification Service whereby a designated independent laboratory validates a participant's certification of conformance to ASTM F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, except sections 7.1.1, 10 and 12.6.1; CAN/CSA Z614, Children's Playspaces and Equipment Standards, except clauses 9.8, 10 and 11; or both. The use of the corresponding logo in the Landscape Structures Inc. catalog signifies that Landscape Structures Inc. has received written validation from the independent laboratory that the product(s) associated with the use of the logo conforms with the requirements of the indicated standards. Check the IPEMA website (www.ipema.org) to confirm product certification. The use zone and fall height requirements in this publication are shown to ASTM standards. The requirements for other standards may be different. According to the CSA, playground maintenance and inspection is a continuous and integral part of budgetary costs. The cost of inspection and maintenance shall be considered and incorporated into the budget at the time of design, purchase equipment and installation (11.1.1 Budgeting).

International Play Equipment Manufacturers Association

4305 N. Sixth St. Suite A
Harrisburg, PA 17110
www.ipema.org



The Consumer Product Safety Commission (CPSC) is a governmental organization that provides technical safety guidelines for designing, constructing, operating and maintaining public playgrounds.

U.S. Consumer Product Safety Commission

4330 East West Hwy.
Bethesda, MD 20814
www.cpsc.gov

The American Society for Testing and Materials (ASTM) is a scientific and technical organization that is a major developer of standards for testing different types of materials. In 1993, the ASTM published "Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use," designation F1487-93. ASTM is more technical than the CPSC. ASTM revised its old standard and published a new standard in 1995, 1998, 2001, 2005, 2007 and again in 2011.

American Society for Testing and Materials

100 Barr Harbor Dr.
P.O. Box C700
West Conshohocken, PA 19428
www.astm.org



The Canadian Standards Association

Nearly all equipment developed by Landscape Structures is certified to meet CAN/CSA-Z614-07, the Children's Playspaces and Equipment Standard, through IPEMA.

The European Standard was developed by the European Committee for Standardization. The majority of Landscape Structures products have been designed to be TUV certified by a third-party validator to EN 1176: 2008, the European Standard for Playground Equipment.



ISO 9001:2008 has a process-orientated structure, is customer focused and emphasizes continuous improvement in quality.



ISO 14001:2004 drives us toward operating in a manner that is environmentally conscious.



PS/PB/FP/Evos/Weevos

Guidelines & Standards

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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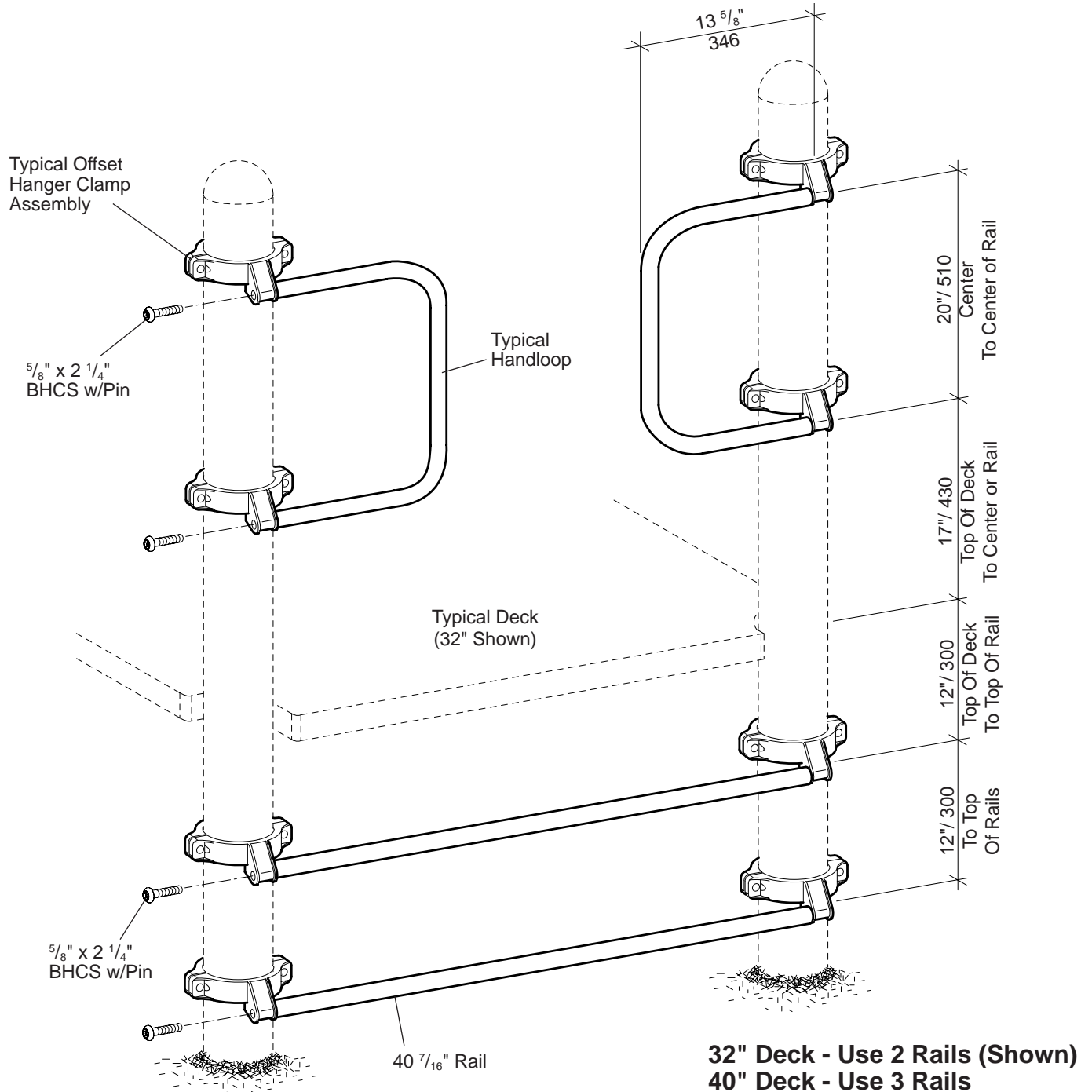


PS/PB/FP/Evos/Weevos

Guidelines & Standards

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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Parts List

Part#	Description	Qty.
111275	Handloop Assembly	1
108542	Handloop, Specify Color	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	4
100203	$\frac{5}{8}$ " x $2\frac{1}{4}$ " BHCS w/Pin, SST	2
100351	$\frac{3}{8}$ " Tee Nut, SST.....	4
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, SST	2
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
111276	Rail Assembly	1
108569	Rail, Specify Color	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	4
100203	$\frac{5}{8}$ " x $2\frac{1}{4}$ " BHCS w/Pin, SST	2
100351	$\frac{3}{8}$ " Tee Nut, SST.....	4
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, SST	2
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2

Specifications

Handloop: Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with $\frac{5}{8}$ " internal thread. Finish: TenderTuff™, color specified.

Rail: Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with $\frac{5}{8}$ " internal thread. Finish: TenderTuff™, color specified.

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

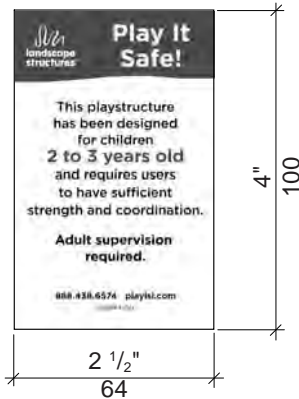
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. $\frac{3}{4}$ man hour

Weight: 111275-00 (One) 11 lbs.
111276-00 (One) 11 lbs.

Installation Instructions

- 1) Mark locations of clamps on posts per dimensions on front of sheet.
- 2) Attach offset clamps to ends of rails/handloops using $\frac{5}{8}$ " x $2\frac{1}{4}$ " BHCS w/pin.
- 3) Position rail/handloop on marked position on posts and attach using 5" half clamps and $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " tee nuts. Refer to the Typical Offset Hanger Clamp Assembly Sheet.
- 4) Install drive rivets in half clamps per the Typical Offset Hanger Clamp Assembly Sheet.
- 5) Install protective surfacing before users are allowed to play on the structure.



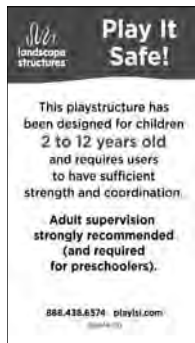
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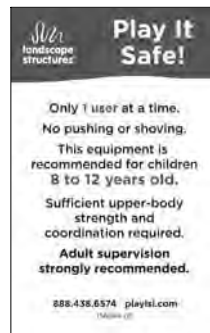
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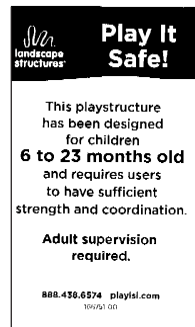
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Part No. 156846-00-000



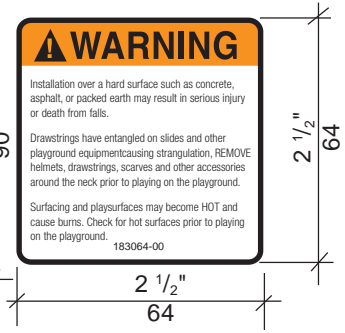
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Part No. 166751-00-000



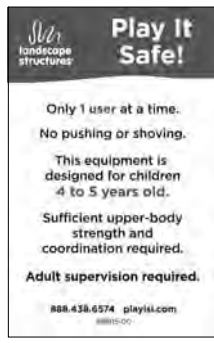
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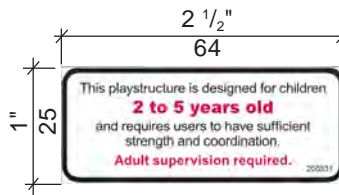
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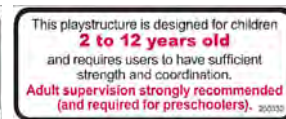
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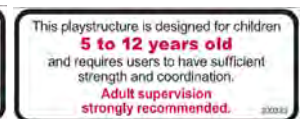
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Part No. 200331-00-000



Part No. 200332-00-000



Part No. 200333-00-000

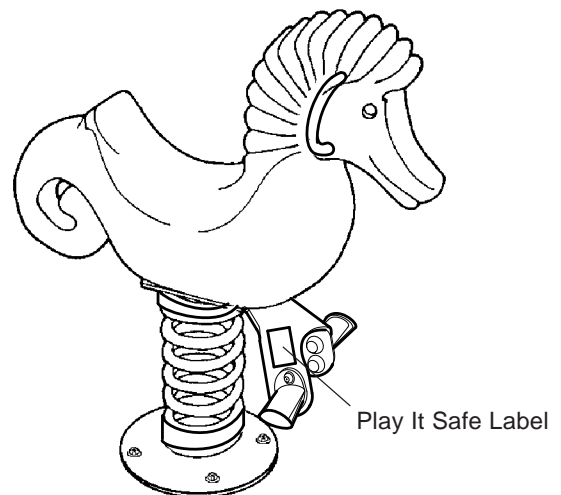
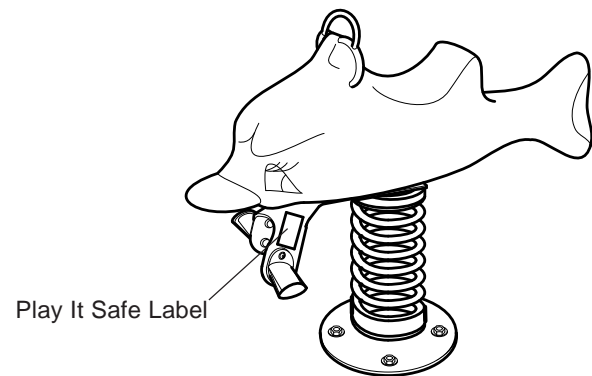
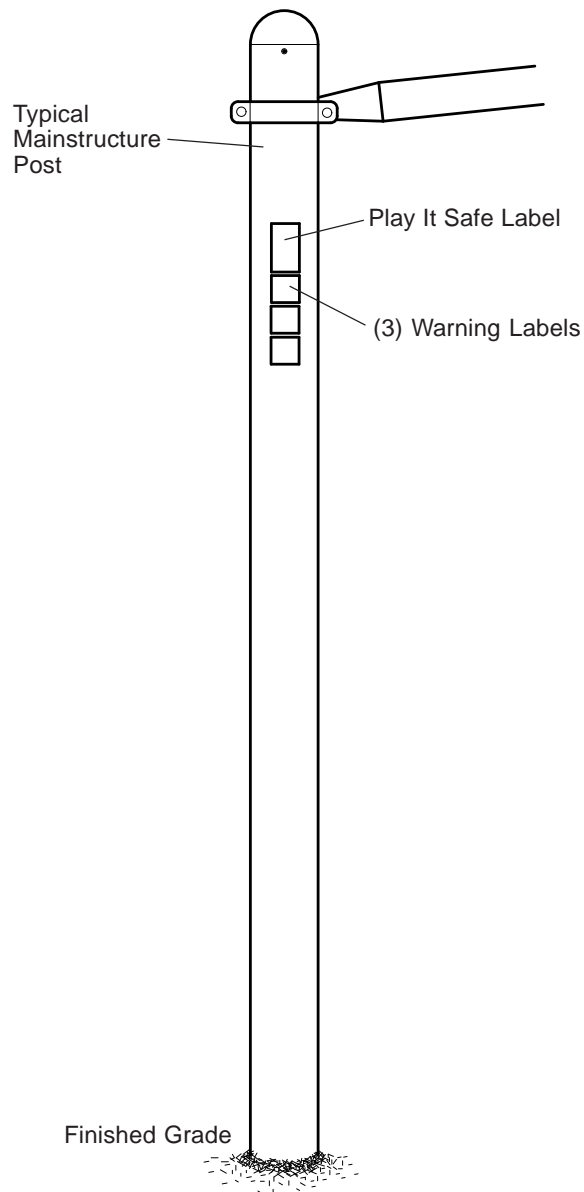
NOTE: The Playstructure design will determine which *Play It Safe* sticker will be supplied.

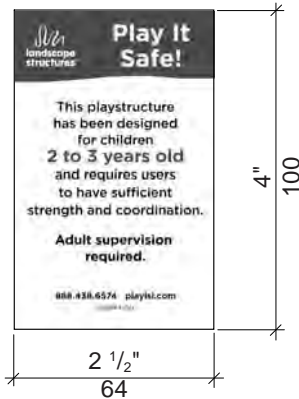
INSTRUCTIONS:

Surface must be clean and dry prior to applying sticker. Peel backing sheet away from back of sticker and place sticker in position. Using backing sheet, rub over face of sticker to burnish down into place. Choose a location visible to adults in a conspicuous location on product. Stickers work best on painted parts. Where possible, avoid placing on rotationally-molded plastic parts, TenderTuff-coated parts or where children may step and wear off sticker. This applies to both Freestanding Play items and Composite Playstructures. Apply sticker adjacent to or visible from the primary entrance to the structure. Apply 4'-5' above the surface. Apply at least (1) one to every structure and (2) two to large Composite Playstructures.

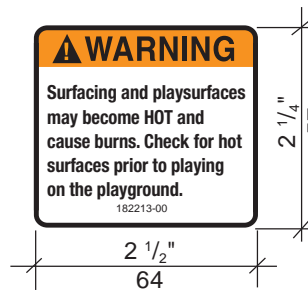
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Part No. 156845-00-000





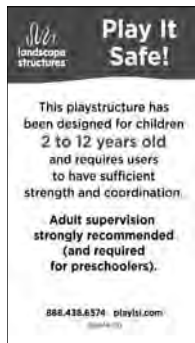
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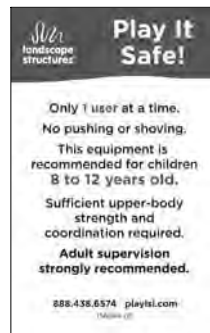
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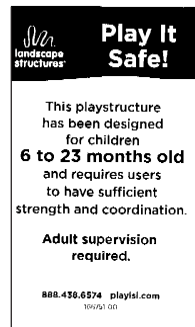
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Part No. 156846-00-000



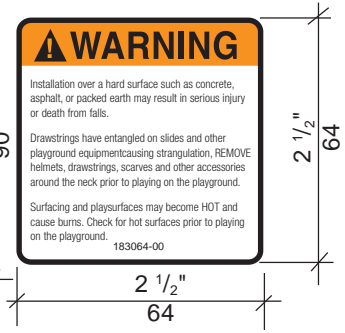
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Part No. 166751-00-000



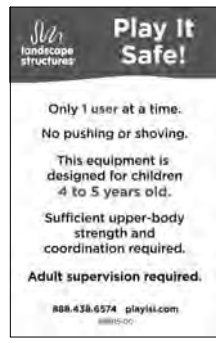
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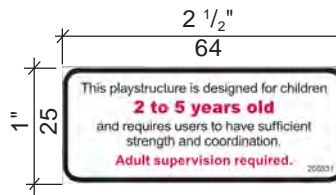
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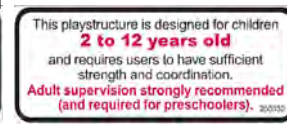
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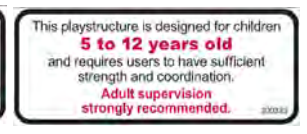
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Part No. 200331-00-000



Part No. 200332-00-000



Part No. 200333-00-000

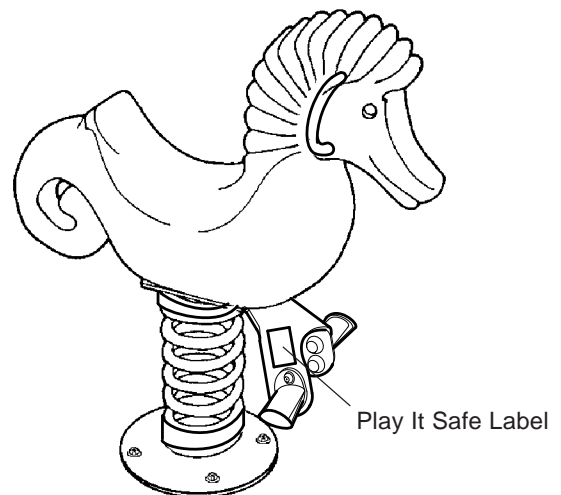
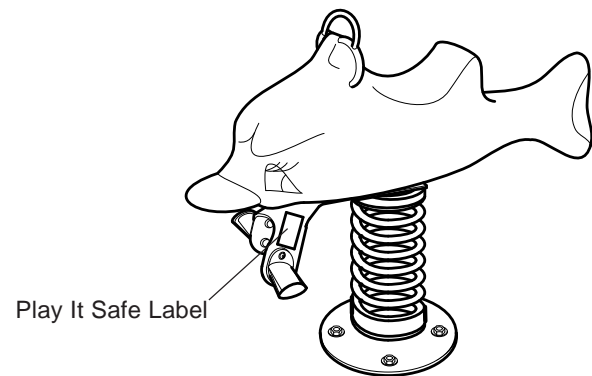
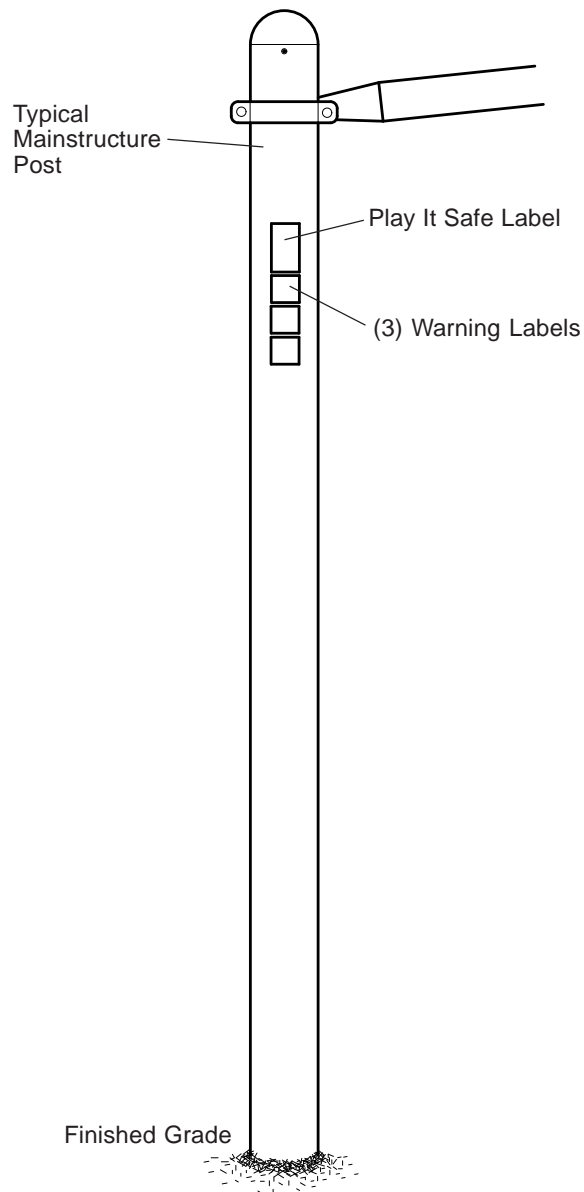
NOTE: The Playstructure design will determine which Play It Safe sticker will be supplied.

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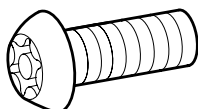
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Part No. 156845-00-000



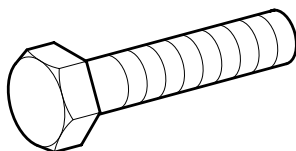
Common Parts & Fasteners

Button Head Cap Screws BHCS w/Pin



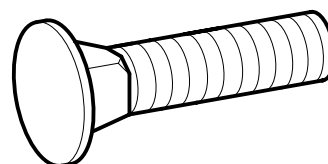
Part #	Inches	Sizes mm	Mat'l or Grade	Recommended Torque	
				Ft./lbs	Kgm
137277	1/4" x 3/8"	(6,4 x 9,5)	SST-PAT	10	1.4
131849	5/16" x 1/2"	(7,9 x 12,7)	SST-PAT	10	1.4
223807	5/16" x 3/4"	(7,9 x 19,0)	SST-PAT	10	1.4
132626	5/16" x 7/8"	(7,9 x 22,2)	SST-PAT	10	1.4
192071		M 8 x 24 mm	SST-PAT	10	1.4
100195	3/8" x 5/8"	(9,5 x 15,9)	SST-PAT	15	2
100196	3/8" x 7/8"	(9,5 x 22,2)	SST-PAT	15	2
100198	3/8" x 1 1/8"	(9,5 x 28,6)	SST-PAT	15	2
113027	3/8" x 1 3/8"	(9,5 x 34,9)	SST-PAT	15	2
100171	3/8" x 1 1/2"	(9,5 x 38,1)	SST-PAT	15	2
123224	3/8" x 1 11/16"	(9,5 x 42,9)	SST-PAT	15	2
100173	3/8" x 2"	(9,5 x 50,8)	SST-PAT	15	2
100199	3/8" x 2 1/4"	(9,5 x 57,2)	SST-PAT	15	2
100174	3/8" x 2 1/2"	(9,5 x 63,5)	SST-PAT	15	2
100175	3/8" x 2 3/4"	(9,5 x 69,9)	SST-PAT	15	2
100176	3/8" x 3"	(9,5 x 76,2)	SST-PAT	15	2
100168	3/8" x 3 1/4"	(9,5 x 82,6)	SST-PAT	15	2
100200	3/8" x 3 1/2"	(9,5 x 88,9)	SST-PAT	15	2
124460	3/8" x 3 3/4"	(9,5 x 95,2)	SST-PAT	15	2
100201	5/8" x 1 1/2"	(15,9 x 38,1)	SST-PAT	50	7
127551	5/8" x 1 1/2"	(15,9 x 38,1) SST- ANTI-SEIZE		50	7
100203	5/8" x 2 1/4"	(15,9 x 57,2)	SST-PAT	50	7

Hex Cap Screws



Part #	Inches	Sizes mm	Mat'l or Grade	Recommended Torque	
				Ft./lbs	Kgm
100206	3/8" x 1"	(9,5 x 25,4)	SST-PAT	15	2
100208	3/8" x 1 1/2"	(9,5 x 38,1)	SST-PAT	15	2
100209	3/8" x 1 3/4"	(9,5 x 44,4)	SST-PAT	15	2
135682	3/8" x 3 1/8"	(9,5 x 79,3)	SST-PAT	15	2
135683	3/8" x 4 5/8"	(9,5 x 117,5)	SST	15	2
100214	3/8" x 5"	(9,5 x 127)	SST-PAT	15	2
121499	7/16" x 1 3/4"	(11,1 x 114,3)	SST-PAT	15	2
100216	1/2" x 1 1/4"	(12,7 x 31,7)	SST	15	2
131862	1/2" x 2 1/4"	(12,7 x 57,1)	SST-PAT	20	2.8

Carriage Bolts

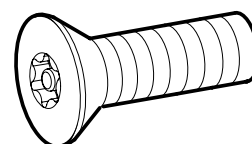
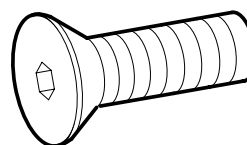


Part #	Inches	Sizes mm	Mat'l or Grade	Recommended Torque	
				Ft./lbs	Kgm
100135	5/16" x 1 1/4"	(7,9 x 31,8)	SST-PAT	5	0.7
100147	3/8" x 1 1/4"	(9,5 x 31,8)	SST-PAT	15	2
116017	3/8" x 1 1/2"	(9,5 x 38,1)	SST-PAT	15	2
100148	3/8" x 1 3/4"	(9,5 x 44,5)	SST-PAT	15	2

Flat Head Cap Screws (FHCS)

No Pin*

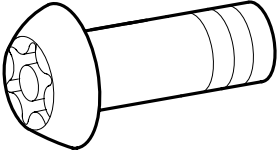
With Pin



Part #	Inches	Sizes mm	Mat'l or Grade	Recommended Torque	
				Ft./lbs	Kgm
148686	3/8" x 3/4"	(9,5 x 19,05)	SST-PAT	13	1.8
100252*	3/8" x 1 1/4"	(9,5 x 31,8)	SST-PAT	13	1.8
151421	3/8" x 1 1/2"	(9,5 x 38,1)	SST-PAT	13	1.8
148765	3/8" x 3 1/2"	(9,5 x 88,9)	SST-PAT	13	1.8
130824*	1/2" x 2 1/4"	(12,5 x 57,2)	SST	20	2.8

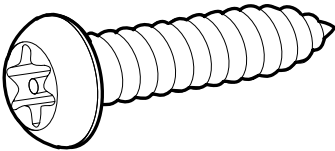
NOTE: These are recommended torque applications per fastener size. When fasteners are used with plastic or wood products, the torque specifications will be excessive and we recommend that the installer apply some caution when tightening the fasteners. Plastic or wood products should begin to deform slightly. Fasteners indicated with "-Pat" includes a locking patch type material and should cure for 72 hours for maximum strength.

BHCS w/Pin Limited Thread Bolts



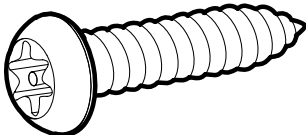
Part #	Sizes		Mat'l or Grade	Recommended Torque	
	Inches	mm		Ft./lbs	Kgm
100290	3/8" x 7/8"	(9,5 x 22,2)	SST-PAT	21	3
100292	3/8" x 1 1/4"	(9,5 x 31,8)	SST-PAT	21	3
157704	7/16" x 2"	(11,11x 51)	SST-PAT	40	5.5
127068	7/16" x 2 7/16"	(11,11x61,91)	SST-PAT	40	5.5

Lag Screws



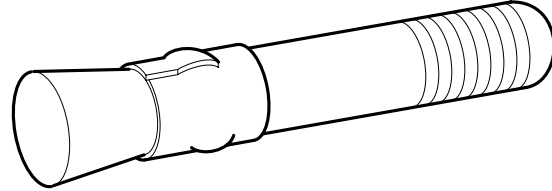
Part #	Sizes		Mat'l or Grade	Head Type
	Inches	mm		
100127	5/16" x 1 1/4"	(7,9 x 31,8)	SST	Hex Head
168198	3/8" x 1 1/2"	(9,5 x 38,1)	SST	Button Head
(Shown)				
139039	3/8" x 2"	(9,5 x 50,8)	SST	Button Head
(Shown)				

Screw, Type AB Thread BHCS w/Pin



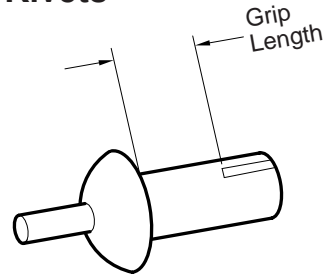
Part #	Size	Mat'l or Grade
129671	#14 x 1/2"	SST
127872	#14 x 3/4"	SST
136232	#14 x 1"	SST
129672	#14 x 1 1/4"	SST

Expansion Anchors (Used To Secure Components To Concrete Slabs)



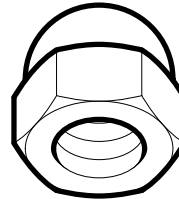
Part #	Sizes		Mat'l or Grade	Recommended Torque	
	Inches	mm		Ft./lbs	Kgm
100263	3/8" x 2 3/4"	(9,5 x 69,9)	Alloy Steel	15	2
100266	1/2" x 2 3/4"	(12,7 x 69,9)	Alloy Steel	20	2.8

Drive Rivets



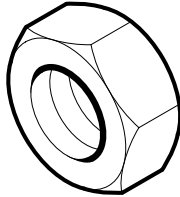
Part #	Sizes		Mat'l
	Inches	mm	
100612	3/16" x 3/8"	(4,7 x 9,5)	Alum Rivet/Alum Pin
100609	1/4" x 3/16"	(6,4 x 4,8)	Alum Rivet/Alum Pin
100611	1/4" x 3/8"	(6,4 x 9,5)	Alum Rivet/SST Pin
113300	1/4" x 1/2"	(6,4 x 12,7)	Alum Rivet/Alum Pin
100610	1/4" x 5/8"	(6,4 x 15,9)	Alum Rivet/SST Pin
139152	1/4" x 3/4"	(6,4 x 19,05)	Alum Rivet/Alum Pin
100613	1/4" x 7/8"	(6,4 x 22,2)	Alum Rivet/Alum Pin
118158	1/4" x 1"	(6,4 x 25,4)	Alum Rivet/Alum Pin

Low Crown Cap Nut



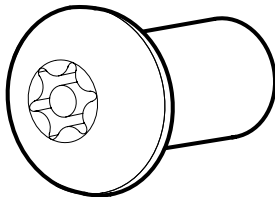
Part #	Size Inches	Mat'l
100349	3/8" -16 UNC	SST

Standard Hex Nuts



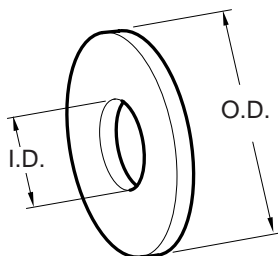
Part #	Sizes Inches	Mat'l or Grade
100326	5/16-18 UNC	SST
100321	3/8-16 UNC	SST-Pat
100327	3/8-16 UNC	SST
128296	3/8-16 UNC (Jam Nut)	SST
100328	7/16-14 UNC	SST
145021	7/16-14 UNC (Jam Nut)	SST
100322	1/2-13 UNC	SST
129692	1/2-13 UNC	SST-Pat
129693	1/2-13 UNC (Jam Nut)	SST
100323	5/8-11 UNC	SST

Flange Nut w/Pin



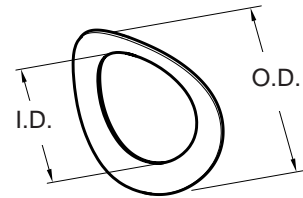
Part #	Sizes Inches	Mat'l or Grade
175006	5/16 x 18 UNC	SST
192064	M 8 x 24 mm	SST
100353	3/8-16 UNC	SST

Flat Washers



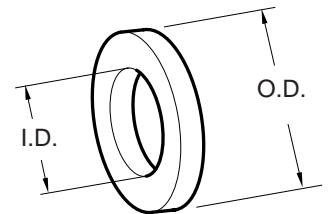
Part #	Sizes Inches	mm	or Grade	I.D.	O.D.
122039	1/4"	(6,3)	SST	0.312	.734
100362	3/8"	(9,5)	SST	0.406	1.002
112793	7/16"	(11,1)	SST	0.505	1.262
100363	1/2"	(12,7)	SST	0.536	1.262
100366	5/8"	(15,9)	SST	0.688	1.750
123737	1 1/8"	(28,6)	SST	1.140	1.750

Curved Spring Washer



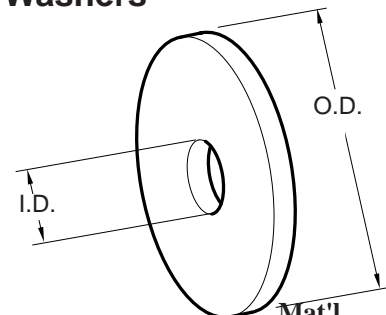
Part #	Sizes Inches	mm	Mat'l or Grade	I.D.	O.D.
100380	1/2"	(12,7)	SST	0.531	0.795

SAE Flat Washers



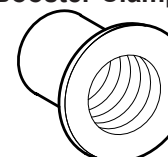
Part #	Sizes Inches	mm	Mat'l or Grade	I.D.	O.D.
100364	1/4"	(6,35)	SST	0.281	0.625
223956	5/16"	(7,92)	SST	0.344	0.688
100365	3/8"	(9,5)	SST	0.411	0.816
113550	1/2"	(12,7)	SST	0.531	1.062
129500	5/8"	(15,9)	SST	0.686	1.342

Fender Washers



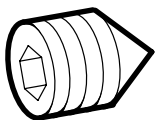
Part #	Sizes Inches	mm	Mat'l or Grade	I.D.	O.D.
100378	3/8" x 1 1/2"	(9,53 x 38,1)	SST	0.406	1.500
100379	1/2" x 2"	(12,7 x 50,8)	SST	0.531	2.000

Tee Nut (PlayBooster Clamps)



Part #	Sizes Inches	Mat'l or Grade
100351	3/8-16 UNC	SST

Set Screw



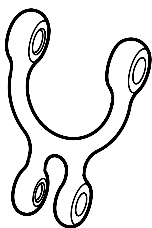
Part #	Sizes		Mat'l or Grade
	Inches	mm	
100298	3/8" x 7/16"	(9,5 x 11,1)	SST

Bolt Link



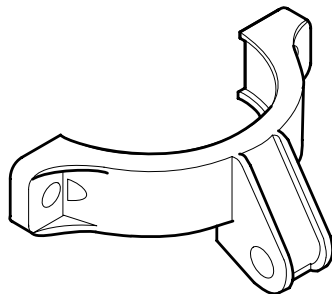
Part #	Mat'l or Grade
138915	SST

Double Clevis



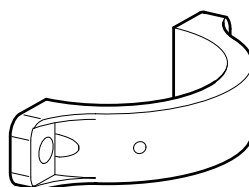
Part #	Mat'l or Grade
138917	SST

Offset Hanger Clamp (PlayBooster)



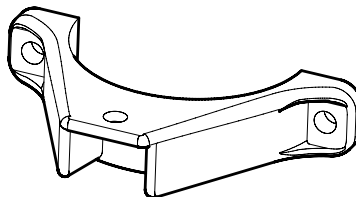
Part #	Mat'l
113729	Cast Aluminum

Half Clamp (PlayBooster)



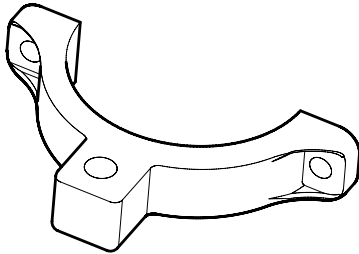
Part #	Mat'l
105327	Cast Aluminum

Deck Hanger Clamp (PlayBooster)



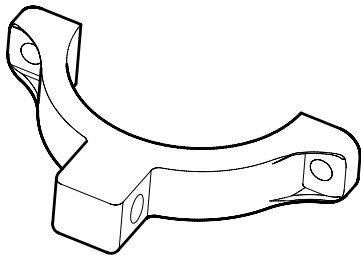
Part #	Mat'l
106022	Cast Aluminum

Swing Hanger Clamp



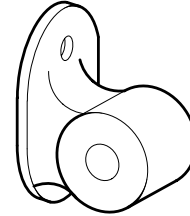
Part #	Mat'l
121289	Cast Aluminum

Ring/Rail Hanger Clamp (PlayBooster)



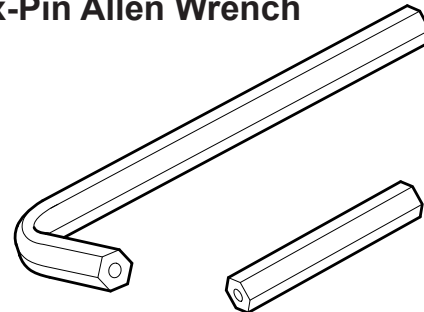
Part #	Mat'l
105330	Cast Aluminum

Offset Bolt Bracket (PlayShaper)



Part #	Mat'l
113895	Cast Aluminum

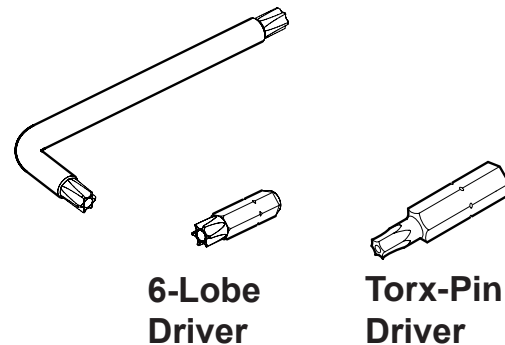
Hex-Pin Allen Wrench



Hex-Pin Driver

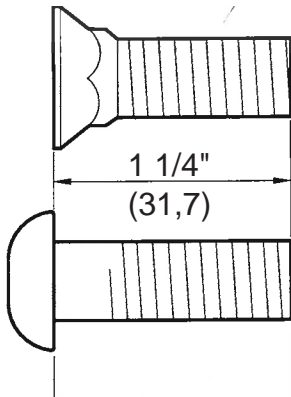
Part #	Description
100685	Hex-Pin Allen Wrench
100686	Hex-Pin Driver (Used With A 5/16" Socket)

6-Lobe Wrench



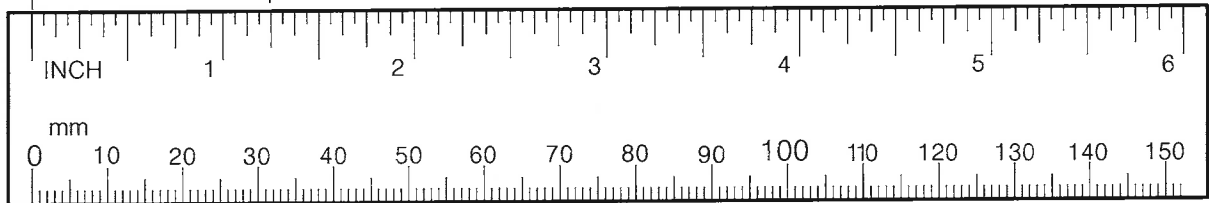
Part #	Description
148680	6-Lobe Wrench (T-40)
146017	6-Lobe Wrench (T-45)
146007	6-Lobe Driver (T-45) (Used With A 5/16" Socket)
127463	Torx-Pin Driver (T-27) (Used With A 1/4" Socket)

HOW TO DETERMINE BOLT LENGTHS



Example shows a 1 1/4" long plow bolt. Measurement method also applies to flathead cap screws.

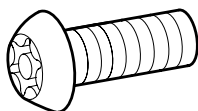
Example shows a 1 1/4" long BH cap screw. Measurement method also applies to hex cap screws, limited thread bolts, lag screws and carriage bolts.



Rule: Measurements should be based on the part of the screw that penetrates the surface.

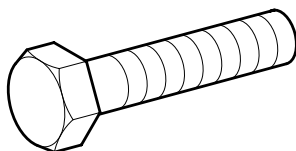
Common Parts & Fasteners

Button Head Cap Screws BHCS w/Pin



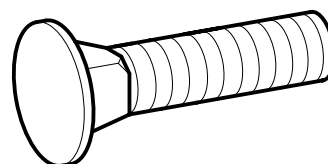
Part #	Inches	Sizes mm	Mat'l or Grade	Recommended Torque	
				Ft./lbs	Kgm
137277	1/4" x 3/8"	(6,4 x 9,5)	SST-PAT	10	1.4
131849	5/16" x 1/2"	(7,9 x 12,7)	SST-PAT	10	1.4
223807	5/16" x 3/4"	(7,9 x 19,0)	SST-PAT	10	1.4
132626	5/16" x 7/8"	(7,9 x 22,2)	SST-PAT	10	1.4
192071		M 8 x 24 mm	SST-PAT	10	1.4
100195	3/8" x 5/8"	(9,5 x 15,9)	SST-PAT	15	2
100196	3/8" x 7/8"	(9,5 x 22,2)	SST-PAT	15	2
100198	3/8" x 1 1/8"	(9,5 x 28,6)	SST-PAT	15	2
113027	3/8" x 1 3/8"	(9,5 x 34,9)	SST-PAT	15	2
100171	3/8" x 1 1/2"	(9,5 x 38,1)	SST-PAT	15	2
123224	3/8" x 1 11/16"	(9,5 x 42,9)	SST-PAT	15	2
100173	3/8" x 2"	(9,5 x 50,8)	SST-PAT	15	2
100199	3/8" x 2 1/4"	(9,5 x 57,2)	SST-PAT	15	2
100174	3/8" x 2 1/2"	(9,5 x 63,5)	SST-PAT	15	2
100175	3/8" x 2 3/4"	(9,5 x 69,9)	SST-PAT	15	2
100176	3/8" x 3"	(9,5 x 76,2)	SST-PAT	15	2
100168	3/8" x 3 1/4"	(9,5 x 82,6)	SST-PAT	15	2
100200	3/8" x 3 1/2"	(9,5 x 88,9)	SST-PAT	15	2
124460	3/8" x 3 3/4"	(9,5 x 95,2)	SST-PAT	15	2
100201	5/8" x 1 1/2"	(15,9 x 38,1)	SST-PAT	50	7
127551	5/8" x 1 1/2"	(15,9 x 38,1) SST- ANTI-SEIZE		50	7
100203	5/8" x 2 1/4"	(15,9 x 57,2)	SST-PAT	50	7

Hex Cap Screws



Part #	Inches	Sizes mm	Mat'l or Grade	Recommended Torque	
				Ft./lbs	Kgm
100206	3/8" x 1"	(9,5 x 25,4)	SST-PAT	15	2
100208	3/8" x 1 1/2"	(9,5 x 38,1)	SST-PAT	15	2
100209	3/8" x 1 3/4"	(9,5 x 44,4)	SST-PAT	15	2
135682	3/8" x 3 1/8"	(9,5 x 79,3)	SST-PAT	15	2
135683	3/8" x 4 5/8"	(9,5 x 117,5)	SST	15	2
100214	3/8" x 5"	(9,5 x 127)	SST-PAT	15	2
121499	7/16" x 1 3/4"	(11,1 x 114,3)	SST-PAT	15	2
100216	1/2" x 1 1/4"	(12,7 x 31,7)	SST	15	2
131862	1/2" x 2 1/4"	(12,7 x 57,1)	SST-PAT	20	2.8

Carriage Bolts

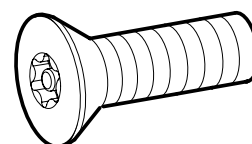
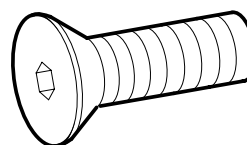


Part #	Inches	Sizes mm	Mat'l or Grade	Recommended Torque	
				Ft./lbs	Kgm
100135	5/16" x 1 1/4"	(7,9 x 31,8)	SST-PAT	5	0.7
100147	3/8" x 1 1/4"	(9,5 x 31,8)	SST-PAT	15	2
116017	3/8" x 1 1/2"	(9,5 x 38,1)	SST-PAT	15	2
100148	3/8" x 1 3/4"	(9,5 x 44,5)	SST-PAT	15	2

Flat Head Cap Screws (FHCS)

No Pin*

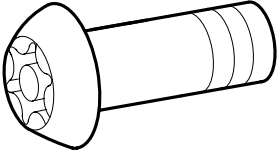
With Pin



Part #	Inches	Sizes mm	Mat'l or Grade	Recommended Torque	
				Ft./lbs	Kgm
148686	3/8" x 3/4"	(9,5 x 19,05)	SST-PAT	13	1.8
100252*	3/8" x 1 1/4"	(9,5 x 31,8)	SST-PAT	13	1.8
151421	3/8" x 1 1/2"	(9,5 x 38,1)	SST-PAT	13	1.8
148765	3/8" x 3 1/2"	(9,5 x 88,9)	SST-PAT	13	1.8
130824*	1/2" x 2 1/4"	(12,5 x 57,2)	SST	20	2.8

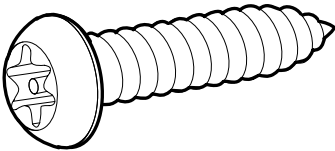
NOTE: These are recommended torque applications per fastener size. When fasteners are used with plastic or wood products, the torque specifications will be excessive and we recommend that the installer apply some caution when tightening the fasteners. Plastic or wood products should begin to deform slightly. Fasteners indicated with "-Pat" includes a locking patch type material and should cure for 72 hours for maximum strength.

BHCS w/Pin Limited Thread Bolts



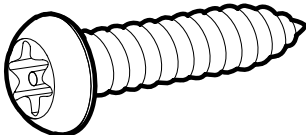
Part #	Sizes		Mat'l or Grade	Recommended Torque	
	Inches	mm		Ft./lbs	Kgm
100290	3/8" x 7/8"	(9,5 x 22,2)	SST-PAT	21	3
100292	3/8" x 1 1/4"	(9,5 x 31,8)	SST-PAT	21	3
157704	7/16" x 2"	(11,11x 51)	SST-PAT	40	5.5
127068	7/16" x 2 7/16"	(11,11x61,91)	SST-PAT	40	5.5

Lag Screws



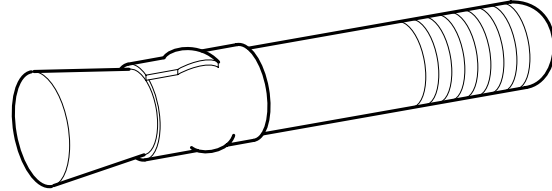
Part #	Sizes		Mat'l or Grade	Head Type
	Inches	mm		
100127	5/16" x 1 1/4"	(7,9 x 31,8)	SST	Hex Head
168198	3/8" x 1 1/2"	(9,5 x 38,1)	SST	Button Head
(Shown)				
139039	3/8" x 2"	(9,5 x 50,8)	SST	Button Head
(Shown)				

Screw, Type AB Thread BHCS w/Pin



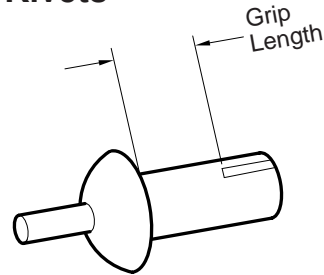
Part #	Size	Mat'l or Grade
129671	#14 x 1/2"	SST
127872	#14 x 3/4"	SST
136232	#14 x 1"	SST
129672	#14 x 1 1/4"	SST

Expansion Anchors (Used To Secure Components To Concrete Slabs)



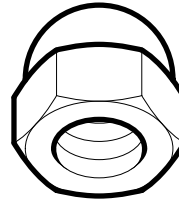
Part #	Sizes		Mat'l or Grade	Recommended Torque	
	Inches	mm		Ft./lbs	Kgm
100263	3/8" x 2 3/4"	(9,5 x 69,9)	Alloy Steel	15	2
100266	1/2" x 2 3/4"	(12,7 x 69,9)	Alloy Steel	20	2.8

Drive Rivets



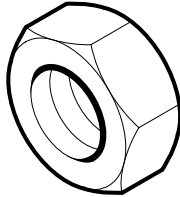
Part #	Sizes		Mat'l
	Inches	mm	
100612	3/16" x 3/8"	(4,7 x 9,5)	Alum Rivet/Alum Pin
100609	1/4" x 3/16"	(6,4 x 4,8)	Alum Rivet/Alum Pin
100611	1/4" x 3/8"	(6,4 x 9,5)	Alum Rivet/SST Pin
113300	1/4" x 1/2"	(6,4 x 12,7)	Alum Rivet/Alum Pin
100610	1/4" x 5/8"	(6,4 x 15,9)	Alum Rivet/SST Pin
139152	1/4" x 3/4"	(6,4 x 19,05)	Alum Rivet/Alum Pin
100613	1/4" x 7/8"	(6,4 x 22,2)	Alum Rivet/Alum Pin
118158	1/4" x 1"	(6,4 x 25,4)	Alum Rivet/Alum Pin

Low Crown Cap Nut



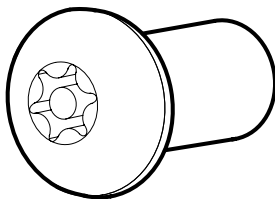
Part #	Size Inches	Mat'l
100349	3/8" -16 UNC	SST

Standard Hex Nuts



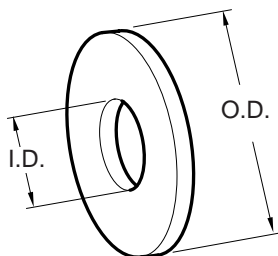
Part #	Sizes Inches	Mat'l or Grade
100326	5/16-18 UNC	SST
100321	3/8-16 UNC	SST-Pat
100327	3/8-16 UNC	SST
128296	3/8-16 UNC (Jam Nut)	SST
100328	7/16-14 UNC	SST
145021	7/16-14 UNC (Jam Nut)	SST
100322	1/2-13 UNC	SST
129692	1/2-13 UNC	SST-Pat
129693	1/2-13 UNC (Jam Nut)	SST
100323	5/8-11 UNC	SST

Flange Nut w/Pin



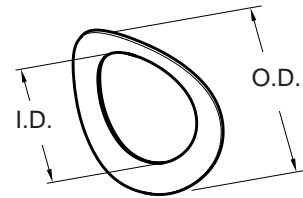
Part #	Sizes Inches	Mat'l or Grade
175006	5/16 x 18 UNC	SST
192064	M 8 x 24 mm	SST
100353	3/8-16 UNC	SST

Flat Washers



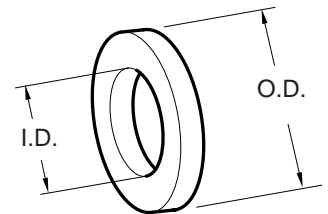
Part #	Sizes Inches	mm	or Grade	I.D.	O.D.
122039	1/4"	(6,3)	SST	0.312	.734
100362	3/8"	(9,5)	SST	0.406	1.002
112793	7/16"	(11,1)	SST	0.505	1.262
100363	1/2"	(12,7)	SST	0.536	1.262
100366	5/8"	(15,9)	SST	0.688	1.750
123737	1 1/8"	(28,6)	SST	1.140	1.750

Curved Spring Washer



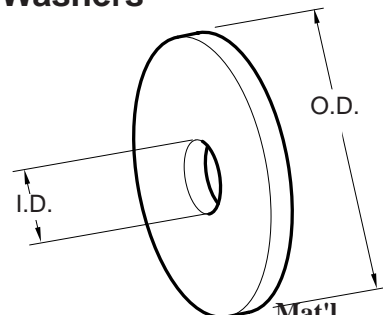
Part #	Sizes Inches	mm	Mat'l or Grade	I.D.	O.D.
100380	1/2"	(12,7)	SST	0.531	0.795

SAE Flat Washers



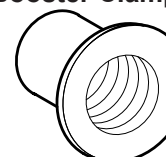
Part #	Sizes Inches	mm	Mat'l or Grade	I.D.	O.D.
100364	1/4"	(6,35)	SST	0.281	0.625
223956	5/16"	(7,92)	SST	0.344	0.688
100365	3/8"	(9,5)	SST	0.411	0.816
113550	1/2"	(12,7)	SST	0.531	1.062
129500	5/8"	(15,9)	SST	0.686	1.342

Fender Washers



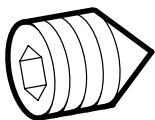
Part #	Sizes Inches	mm	Mat'l or Grade	I.D.	O.D.
100378	3/8" x 1 1/2"	(9,53 x 38,1)	SST	0.406	1.500
100379	1/2" x 2"	(12,7 x 50,8)	SST	0.531	2.000

Tee Nut (PlayBooster Clamps)



Part #	Sizes Inches	Mat'l or Grade
100351	3/8-16 UNC	SST

Set Screw



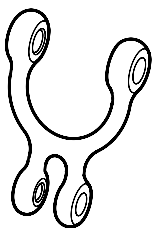
Part #	Sizes		Mat'l or Grade
	Inches	mm	
100298	3/8" x 7/16"	(9,5 x 11,1)	SST

Bolt Link



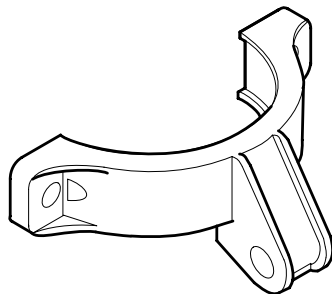
Part #	Mat'l or Grade
138915	SST

Double Clevis



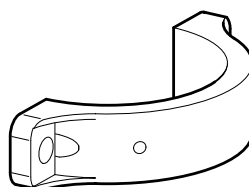
Part #	Mat'l or Grade
138917	SST

Offset Hanger Clamp (PlayBooster)



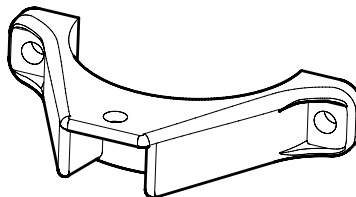
Part #	Mat'l
113729	Cast Aluminum

Half Clamp (PlayBooster)



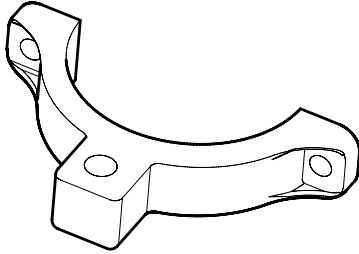
Part #	Mat'l
105327	Cast Aluminum

Deck Hanger Clamp (PlayBooster)



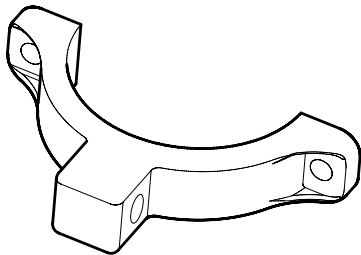
Part #	Mat'l
106022	Cast Aluminum

Swing Hanger Clamp



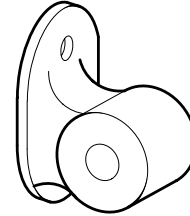
Part #	Mat'l
121289	Cast Aluminum

Ring/Rail Hanger Clamp (PlayBooster)



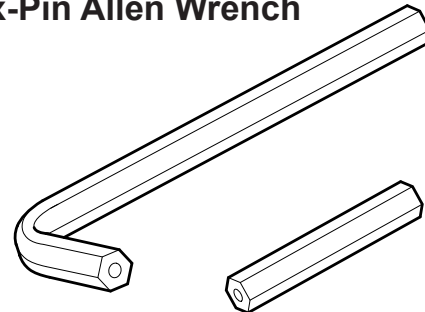
Part #	Mat'l
105330	Cast Aluminum

Offset Bolt Bracket (PlayShaper)



Part #	Mat'l
113895	Cast Aluminum

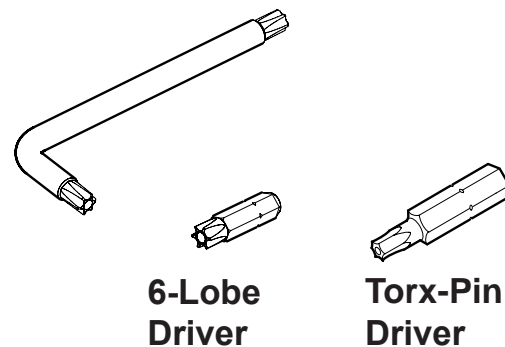
Hex-Pin Allen Wrench



Hex-Pin Driver

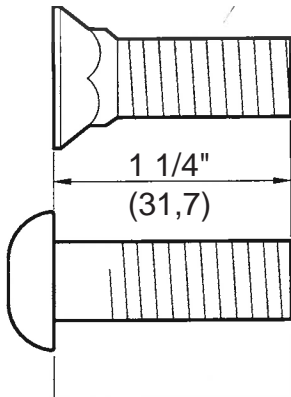
Part #	Description
100685	Hex-Pin Allen Wrench
100686	Hex-Pin Driver (Used With A 5/16" Socket)

6-Lobe Wrench



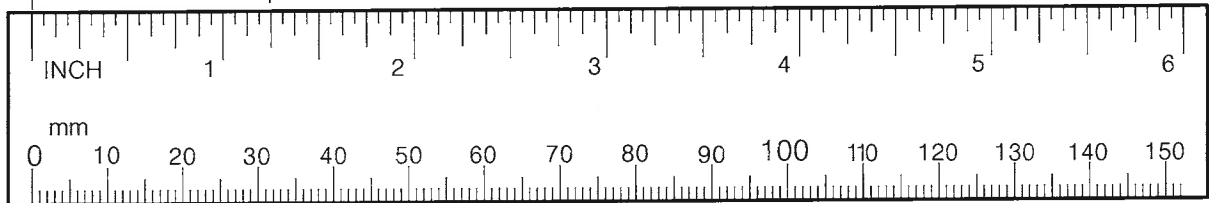
Part #	Description
148680	6-Lobe Wrench (T-40)
146017	6-Lobe Wrench (T-45)
146007	6-Lobe Driver (T-45) (Used With A 5/16" Socket)
127463	Torx-Pin Driver (T-27) (Used With A 1/4" Socket)

HOW TO DETERMINE BOLT LENGTHS

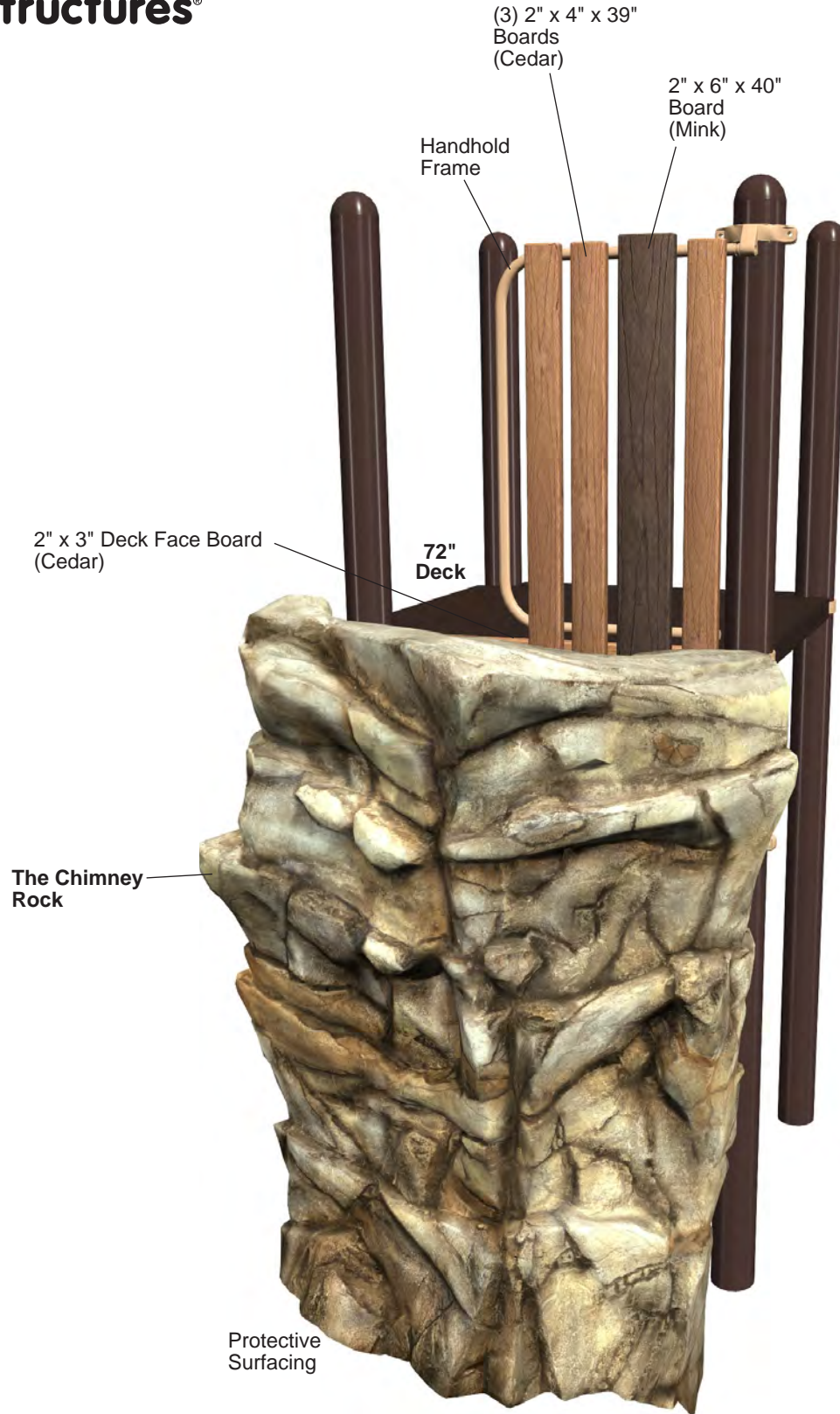


Example shows a 1 1/4" long plow bolt. Measurement method also applies to flathead cap screws.

Example shows a 1 1/4" long BH cap screw. Measurement method also applies to hex cap screws, limited thread bolts, lag screws and carriage bolts.



Rule: Measurements should be based on the part of the screw that penetrates the surface.



Play Naturally™

PlayBooster®

207583 The Chimney™ Rock

Sheet 1 of 4

RECOMMENDED INSTALLATION TOOLS (NOT INCLUDED)



**PADDING FOR
PROTECTION. ONLY
NEEDED IF USING LIFTING
STRAPS**

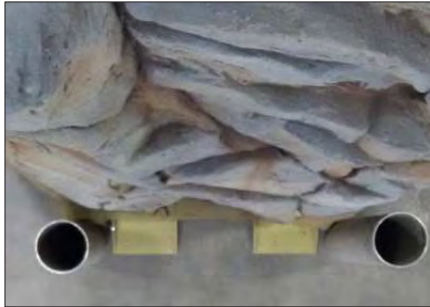


**COMPOSITE SHIMS FOR
FINAL ROCK PLACEMENT**



**2 – 3" x 20' STRAPS FOR
INSTALLING IN TIGHT
AREAS**

LINING UP THE ROCK WITH POSTS



INSTALL THE ROCKS WITH A TELEHANDLER. IN THE BASE OF EACH ROCK, THERE ARE ALIGNMENT CUT OUTS FOR EASE OF PLACING THE ROCKS. THE CUT OUTS ARE DESIGNED TO HELP LINE UP THE ROCKS WITH THE POSTS. USE THE CUT OUTS AS GUIDANCE FOR PROPER ROCK PLACEMENT.

STRAP LOCATIONS FOR LIFTING

USING THE PRY BAR FOR FINAL ROCK PLACEMENT



Correct

NOTE: When using pry bar, always use the steel baseplate as a contact point. Using the concrete only could damage the product.



Incorrect

THE CHIMNEY ROCK



ALWAYS USE FORK POCKETS FOR INSTALL. STRAPS SHOULD ONLY BE USED IF ROCKS ARE UNABLE TO BE PLACED USING THE FORK POCKETS. ALWAYS USE PADDING BETWEEN THE STRAPS AND ROCK FOR PROTECTION

POSITIONING INSPECTION
PERFORM THE INSPECTION TYPE IN THE AREAS IDENTIFIED BELOW.
SEE POSITIONING INSPECTION DESCRIPTION FOR DETAILS

POSITIONING INSPECTION DESCRIPTION
PRIOR TO SURFACING BEING INSTALLED, INSPECT OPENINGS TO VERIFY
ROCKS ARE POSITIONED CORRECTLY



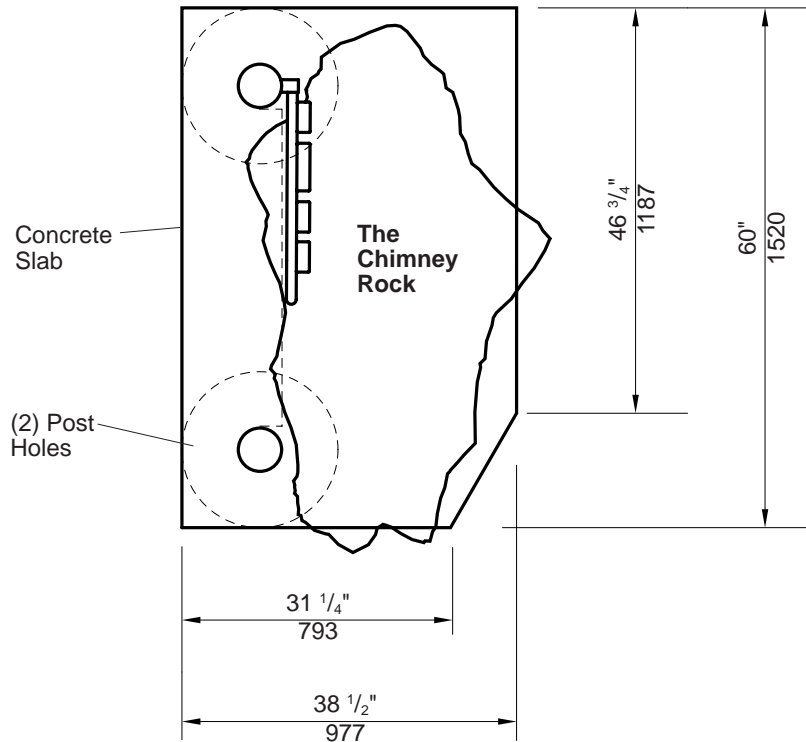
INSPECTION A
Place torso template between post and rock.
Template should be perpendicular to the opening.
Torso template shall not pass between post and rock.



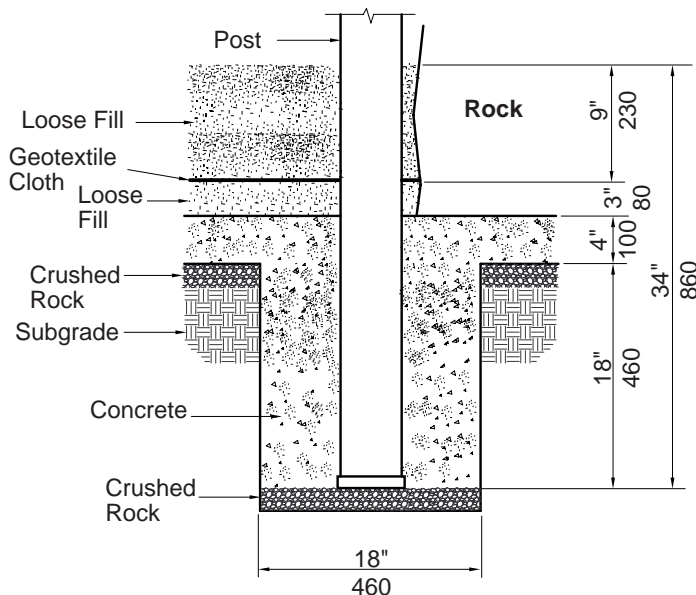
INSPECTION C
Place head template between deck and rock.
Template should be perpendicular to the opening.
Head template shall pass between deck and rock.

**DETAIL
CONCRETE SLAB DIMENSIONS**

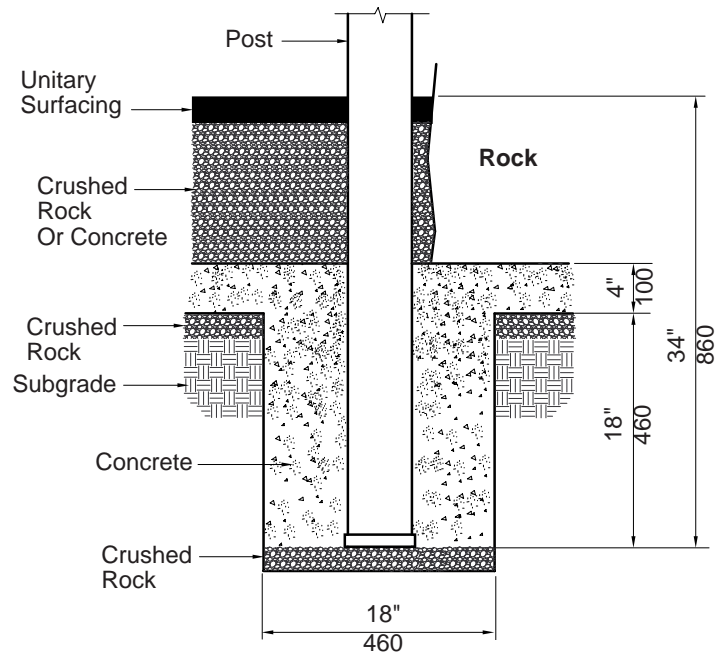
NOTE: Refer to Site Plan for footing & concrete slab locations.



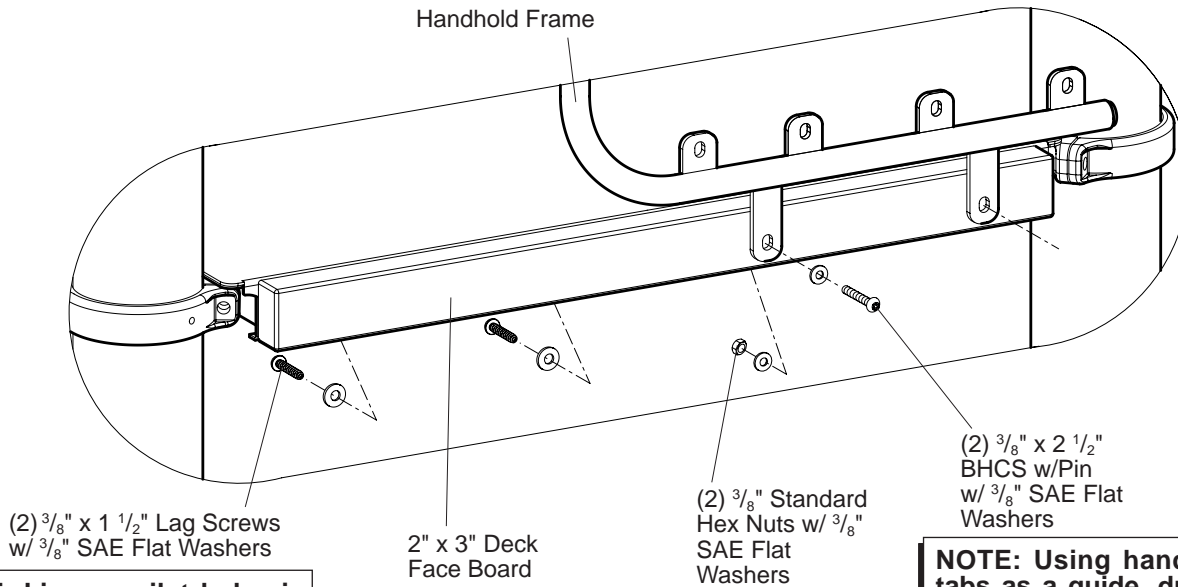
**DETAIL
CONCRETE SLAB W/LOOSE FILL**



**DETAIL
CONCRETE SLAB W/POUR-IN PLACE**



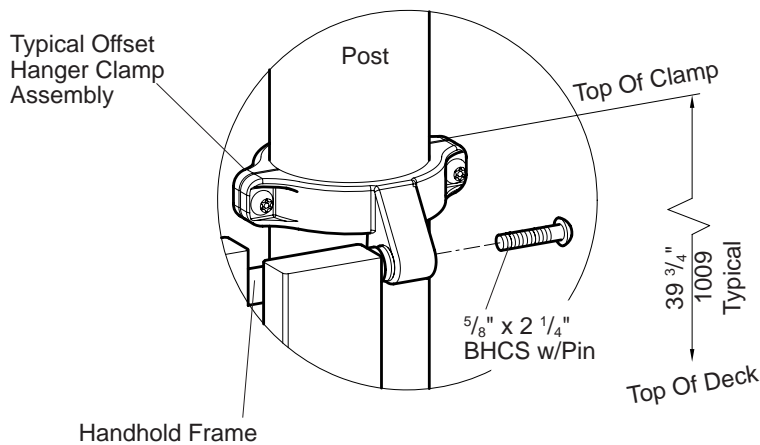
DETAIL FACE BOARD/HANDHOLD ATTACHMENT



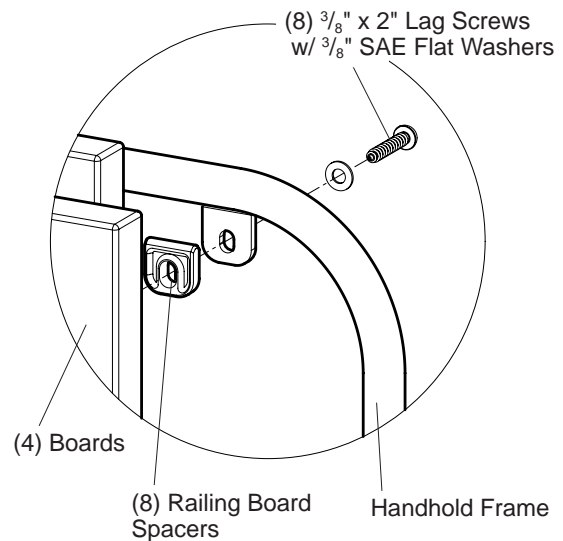
NOTE: Line up pilot holes in back of deck face board with holes in deck.

NOTE: Using handhold frame tabs as a guide, drill $\frac{3}{8}$ " holes through face boards and decks.

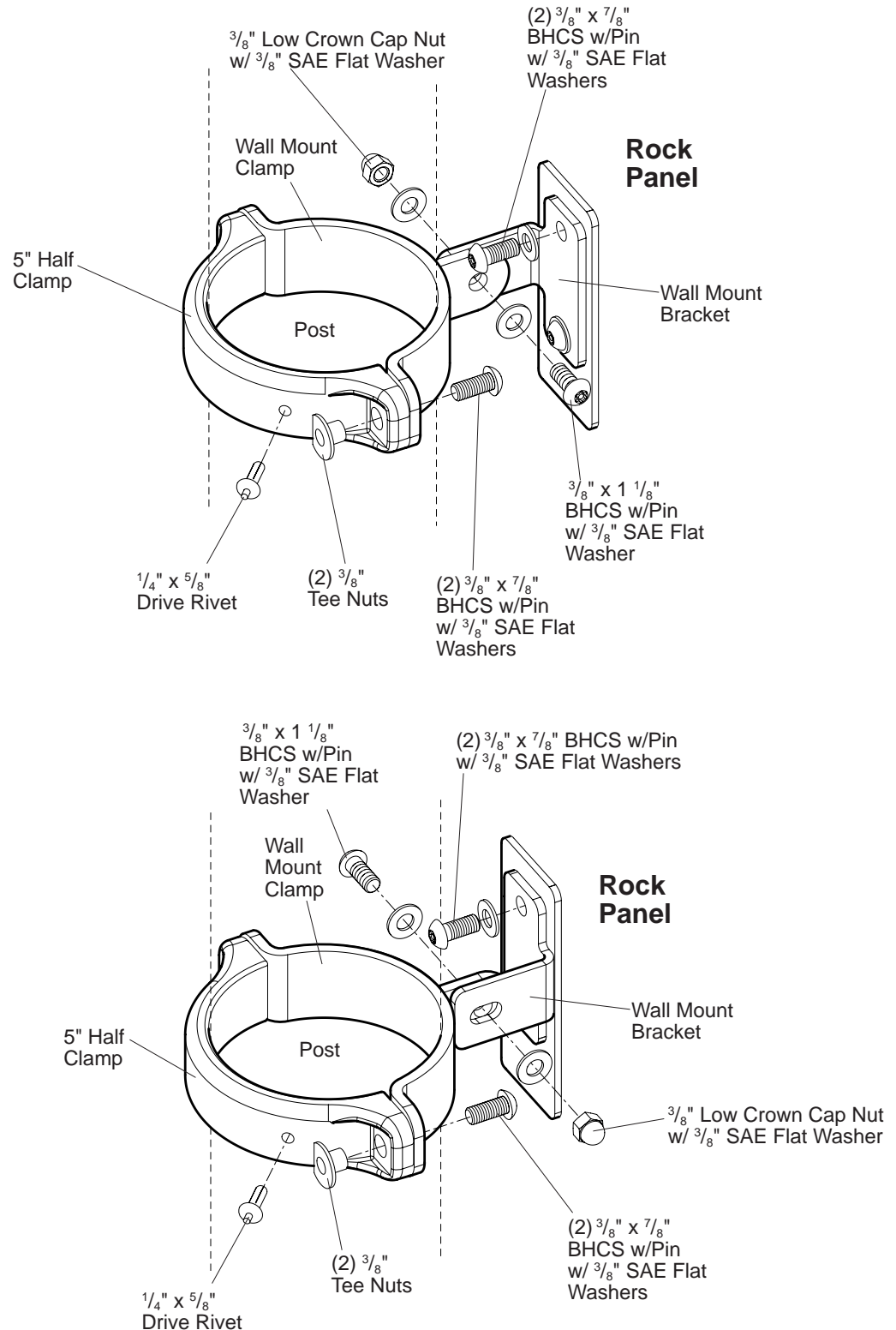
DETAIL CLAMP ATTACHMENT



DETAIL BOARD ATTACHMENT



**DETAIL
CLAMP ATTACHMENT
(LEFT & RIGHT)**



Parts List

Part#	Description	Qty.
216291	The Chimney Rock, Natural Tree Color.....	1
175267	2" x 3" Recycled Deck Face Board, Cedar.....	1
105327	5" Half Clamp, Specify Color	3
113729	Offset Hanger Clamp, Specify Color	1
206977	Handhold Frame, Tan	1
168467	2" x 4" x 39" Recycled Board, Cedar.....	3
168472	2" x 6" x 40" Recycled Board, Mink.....	1
207485	Railing Board Spacer, Tan.....	8
206535	Wall Mount Bracket, Specify Color.....	2
206536	Wall Mount Clamp, Specify Color.....	2
100610	1/4" x 5/8" Drive Rivet, AL./SST.....	3
207631	Wide Handhold Hardware Package	1
100174	3/8" x 2 1/2" BHCS w/Pin, SST	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	2
100203	5/8" x 2 1/4" BHCS w/Pin, SST	1
100327	3/8" Standard Hex Nut, SST	2
100351	3/8" Tee Nut, SST.....	2
100365	3/8" SAE Flat Washer, SST.....	12
139039	3/8" x 2" BH Lag Screw, SST	8
207876	Rock Clamp (Pair) Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	8
100351	3/8" Tee Nut, SST.....	4
100365	3/8" SAE Flat Washer, SST.....	8
100349	3/8" Low Crown Cap Nut, SST	2
100610	1/4" x 5/8" Drive Rivet, AL./SST.....	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	2
169651	Recycled Deck/Kick Board Hardware Pkge	1
100365	3/8" SAE Flat Washer, SST.....	4
168198	3/8" x 1 1/2" BH Lag Screw, SST.....	4

Specifications

Rock Panel:	Weldment comprised of 5/8" (15,87 mm) & 3/4" (19,06 mm) rebar, 1/4" (6,35 mm) HRPO steel sheet and 7 GA. (.179") (4,55 mm) thick HRPO steel plate. Finish: ProShield®. (Rock-fully assembled) Wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.
Poly Board:	Recycled high-density polyethylene, cedar or mink in color.
Handhold Frame:	Weldment comprised of 1.125" (28,58 mm) O.D. 11 GA. (.120") (3,05 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15,87 mm) internal threads, and 1/4" (6,35 mm) HRPO steel sheet. Finish: ProShield®, tan in color.
Spacer Tube:	Made from 1 1/8" (28,57 mm) O.D. 6061-T6 aluminum tube. Finish: ProShield®, tan in color.
Wall Mount Brkt.:	Fabricated from 7 GA. (.179") (4,55 mm) thick HRPO steel plate. Finish: ProShield®, color specified.
Wall Mount Clamp:	Weldment comprised of 1/4" (6,35 mm) HRPO steel plate. Finish: ProShield®, color specified.
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).

Specifications are subject to change without notice.

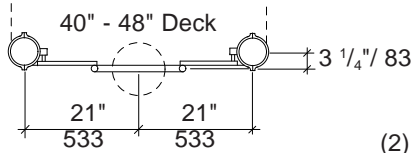
Installation Time: Approx. 8 man hours
Fall Height: 76" (1,93 m)
Concrete: Approx. 10.53 cu. ft.
Weight: 4170 lbs.

Installation Instructions

- 1) **(Direct Bury)** Dig footing holes and build frame for concrete slab. Refer to Direct Bury Detail and Site Plan.

Warning: Never crawl under any part of the Rock Panels - especially when it is only supported by a forklift.
- 2) With posts plumb and deck level, pour concrete footings and slab.
NOTE: Concrete slab must be level.
- 3) Allow concrete to cure a minimum of 24 hours before placing Rock Panel on concrete slab.
- 4) To unload Rock Panel a "Lull" type material handler with at least an 8000 lb. capacity is recommended. **NOTE: At least 2 people are recommended for Rock Panel installation. One person to operate the material handling equipment and one person to spot for the operator.**
- 5) Pick up the Rock Panel by inserting the material handling forks into the forklift pockets. Be very careful to keep the Rock Panel level to the ground when raising or lowering. Do not tip the Rock Panel on a corner or edge. Do not contact the concrete face of the Rock Panel with material handler forks, chipping can occur. Refer to the Site Plan for proper orientation.
- 6) Attach Rock Panel to posts. Refer to the Wall Bracket Details.
- 7) Attach offset hanger clamp to post at height 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.
- 8) Attach handhold frame to offset hanger clamp, using 5/8" x 2 1/4" BHCS w/pin.
- 9) Line up pilot holes in boards with spacers and handhold frame tabs and attach, using 3/8" x 2" lag screws with 3/8" SAE flat washers. Refer to the Board Attachment Detail.
- 10) Line up pilot holes in deck face board with holes in deck and attach, using 3/8" x 1 1/2" lag screws with 3/8" SAE flat washers. Refer to the Face Board Attachment Detail.
- 11) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 12) Install protective surfacing before users are allowed to play on the structure.
- 13) **NOTE: After installation if Touch-up/Repairs are needed, contact Landscape Structures at 1-888-574-4678.**

**PLAN VIEW
FOOTING PLAN**



Typical
Mainstructure
Post

(2) Handhold
Panels

38\"/>

Top of
Clamp

31 3/4\"/>

15\"/>

Top of
Deck

(2) 3/8\"/>

12\"/>

16 3/8\"/>

Footer

Protective
Surfacing

3/8\"/>

3/8\"/>

Vertical
Ladder

**DETAIL
PANEL ATTACHMENT**

(2) Typical Offset
Hanger Clamp
Assemblies

(2) 3/8\"/>

(2) Spacer
Tubes

Panels

(2) 3/8\"/>

**DETAIL
Surface Mount (40\"/>**

3/8\"/>

3/8\"/>

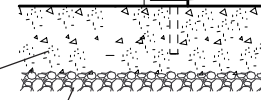
Concrete Slab

Vertical Ladder

1/2\"/>

1/2\"/>

Angle Plate



Crushed
Rock

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

**DETAIL
Surface Mount (48\"/>**

(2) 1/2\"/>

(2) 1/2\"/>

(2) 3/8\"/>

Footer

Concrete Slab

Crushed Rock



**DETAIL
Direct Bury**

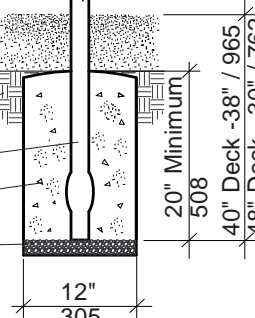
Loose Fill
Protective
Surfacing

Subgrade

Footer

Concrete

Crushed
Rock



Parts List

Part#	Description	Qty.
115777	Vertical Ladder, 40"/48", Specify Color	1
139563	Handhold Panel, Specify Color	2
180703	Footer (DB), Specify Color	1
180705	Footer (SM), Specify Color	1
180702	Angle Plate (SM), Specify Color	1
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
113468	Spacer Tube, Specify Color	2
190270	Vertical Ladder (Tenderdeck) Hardware Pkg ...	1
124460	$\frac{3}{8}$ " x 3 $\frac{3}{4}$ " BHCS w/Pin, SST	2
100196	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100198	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	7
100327	$\frac{3}{8}$ " Standard Hex Nut, SST	2
100349	$\frac{3}{8}$ " Low Crown Cap Nut, SST	1
100351	$\frac{3}{8}$ " Tee Nut, SST	4
100353	$\frac{3}{8}$ " Flange Nut w/Pin, SST	6
100365	$\frac{3}{8}$ " SAE Flat Washer, SST	10
111392	2 Hole (SM) Hardware Package	1
100266	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	2
100322	$\frac{1}{2}$ " Standard Hex Nut, SST	2
100363	$\frac{1}{2}$ " Flat Washer, SST	2
116432	1 Hole (SM) Hardware Package	1
100266	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	1
100322	$\frac{1}{2}$ " Standard Hex Nut, SST	1
100363	$\frac{1}{2}$ " Flat Washer, SST	1

DB = Direct Bury
SM = Surface Mount

Specifications

Vertical Ladder: Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing, 1.029" O.D. RS-20 (.070" - .080") and $\frac{3}{16}$ " x 2" wide steel flat plates. Finish: TenderTuff®, color specified.

Footer: Fabricated from 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.

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. 1 $\frac{1}{2}$ man hour
SM - Approx. 1 man hour

Concrete Req.: Approx. 1.3 cu. ft.
Weight: DB, 40"/48" - 47 lbs.
SM, 40" - 44 lbs.
SM, 48" - 46 lbs.

Fall Height: Deck Height

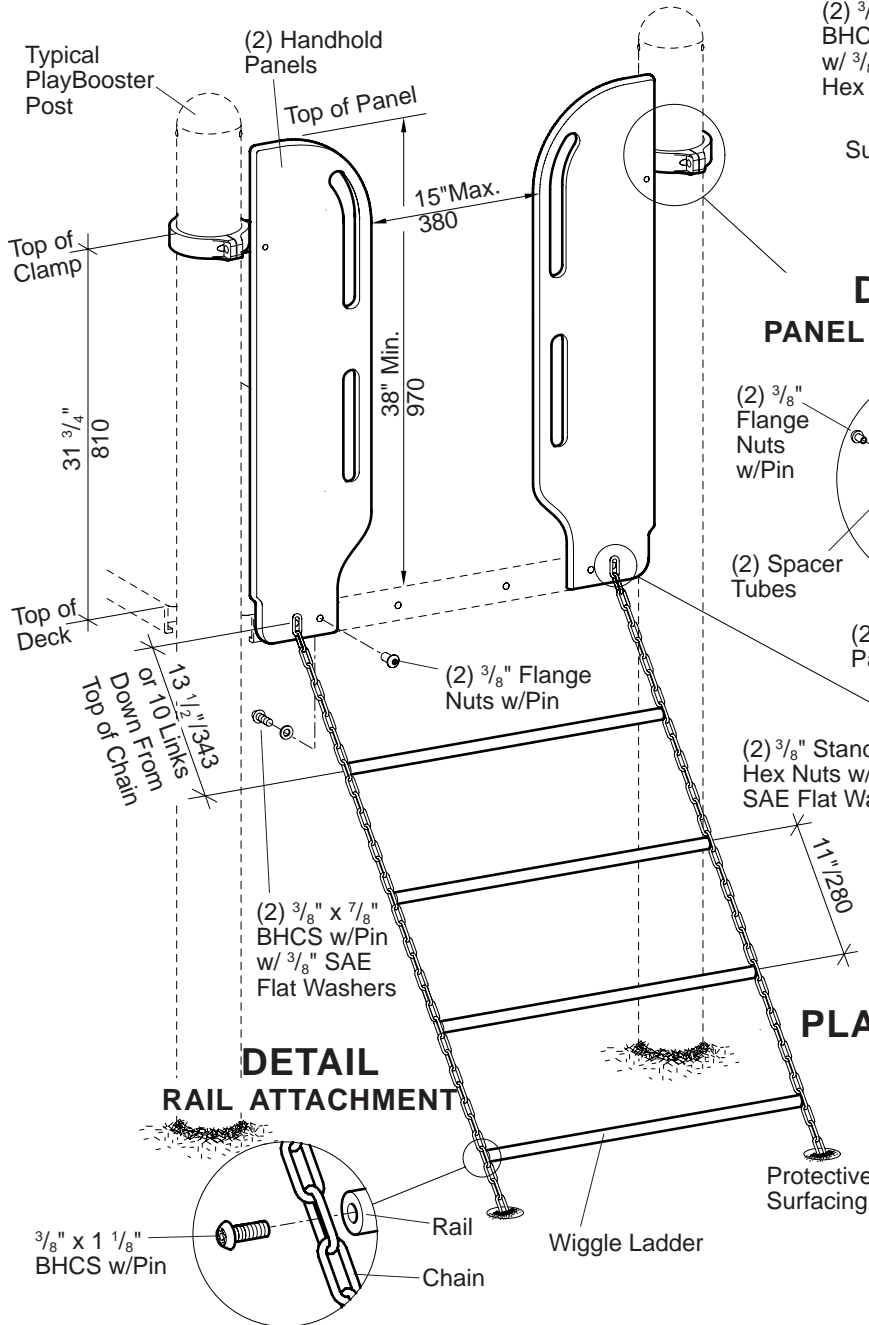
Installation Instructions

Direct Bury

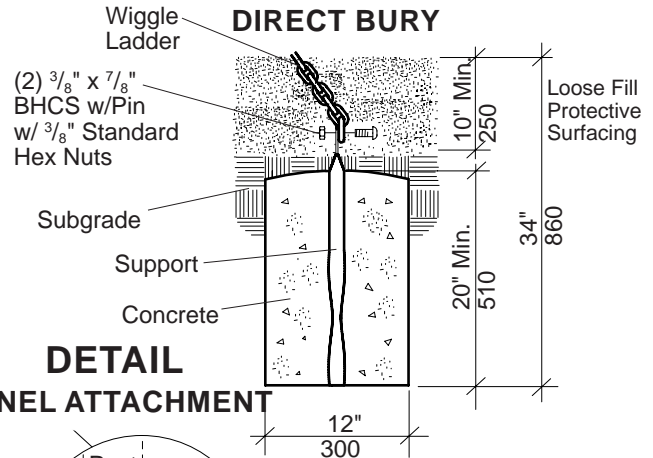
- 1) Dig footing to depth and spacing, as shown.
- 2) Attach footer to ladder, using a $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washer and a $\frac{3}{8}$ " low crown cap nut with $\frac{3}{8}$ " SAE flat washer, as shown.
- 3) Attach ladder to deck, using $\frac{3}{8}$ " 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, as shown.
- 4) Attach handhold panel 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, as shown. **NOTE: Be sure handhold panels are snug to vertical ladder.**
- 5) Attach offset hanger clamps to posts at height shown, using 5" half clamps and $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.
- 6) Attach 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.
- 7) With ladder plumb, pour concrete footing. Allow concrete footing to cure a minimum of 72 hours before users are allowed to play on the structure.
- 8) Install protective surfacing before users are allowed to play on the structure.

Surface Mount

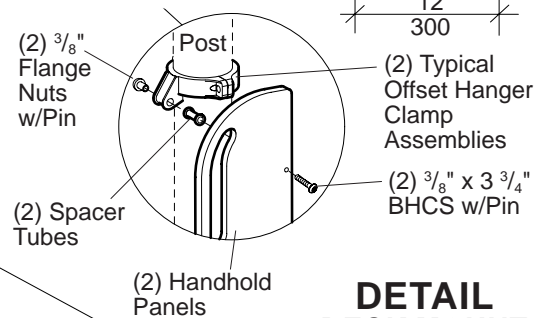
- 1) Attach footer to ladder, using a $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washer and a $\frac{3}{8}$ " low crown cap nut with $\frac{3}{8}$ " SAE flat washer, as shown. **NOTE: The Footer (SM) is used for the 48" deck height, and the Angle Plate (SM) is used for the 40" deck height.**
- 2) Attach ladder to 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, as shown.
- 3) Attach handhold panel 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, as shown. **NOTE: Be sure handhold panels are snug to vertical ladder.**
- 4) Attach offset hanger clamps to posts at height shown, using 5" half clamps and $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.
- 5) Attach panel 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.
- 6) Using a $\frac{1}{2}$ " hammer drill and $\frac{1}{2}$ " masonry bit, drill anchor bolt holes into concrete slab 3" deep through holes in footer plate or angle plate, as shown.
- 7) Tap expansion anchors into holes and fasten, using $\frac{1}{2}$ " flat washers and $\frac{1}{2}$ " standard hex nuts, as shown.
- 8) Install protective surfacing before users are allowed to play on the structure.



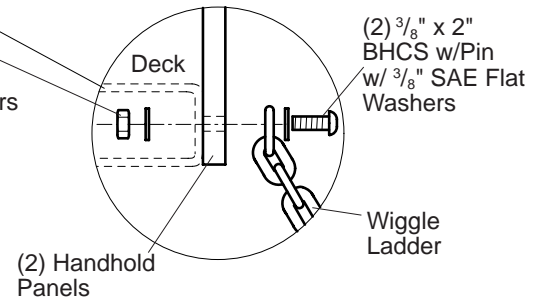
**DETAIL
DIRECT BURY**



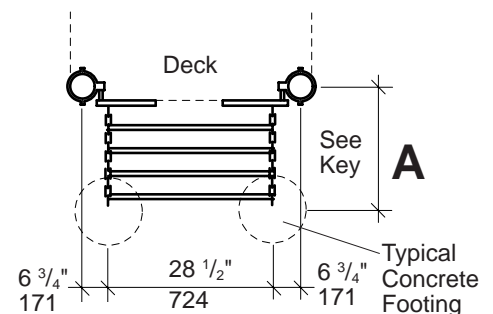
**DETAIL
PANEL ATTACHMENT**



**DETAIL
DECK MOUNT**



PLAN VIEW/FOOTING LAYOUT



KEY Height	Dimension "A"
Off 32" / 810 Deck	28" / 710
Off 40" / 1020 Deck	30" / 760
Off 48" / 1220 Deck	31" / 790
Off 56" / 1490 Deck	31" / 790
Off 64" / 1630 Deck	34" / 860
Off 72" / 1830 Deck	39" / 990

NOTE: Dimensions shown in KEY are based on 12" of protective surfacing and top of supports 2" below subgrade. Dimensions will vary if your depth of protective surfacing varies. Read installation instructions.

Parts List

Part#	Description	Qty.
139563	Handhold Panel, Specify Color	2
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
113468	Spacer Tube, Specify Color	2
118029	Support (DB)	2
152159	(32" Deck) 54 7/16" Chain, Specify Color	2
119813	(32" Deck) Rail, Specify Color	2
190455	(32" Deck) Wiggle Ladder Hardware Package	1
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8
100327	3/8" Standard Hex Nut, SST	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	6
100173	3/8" x 2" BHCS w/Pin, SST	2
152055	(40" Deck) 59 15/16" Chain, Specify Color	2
119813	(40" Deck) Rail, Specify Color	3
190456	(40" Deck) Wiggle Ladder Hardware Package	1
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	10
100327	3/8" Standard Hex Nut, SST	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	6
100173	3/8" x 2" BHCS w/Pin, SST	2
152056	(48" Deck) 68 1/4" Chain, Specify Color	2
152057	(56" Deck) 76 3/4" Chain, Specify Color	2
119813	(48" & 56" Deck) Rail, Specify Color	4
190457	(48" & 56" Deck) Wiggle Ladder Hardware Pkg	1
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	12
100327	3/8" Standard Hex Nut, SST	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	6
100173	3/8" x 2" BHCS w/Pin, SST	2
152157	(64" Deck) 84 5/16" Chain, Specify Color	2
119813	(64" Deck) Rail, Specify Color	5
190458	(64" Deck) Wiggle Ladder Hardware Package	1
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	14
100327	3/8" Standard Hex Nut, SST	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	6
100173	3/8" x 2" BHCS w/Pin, SST	2
152158	(72" Deck) 92 7/8" Chain, Specify Color	2
119813	(72" Deck) Rail, Specify Color	6
190454	(72" Deck) Wiggle Ladder Hardware Package	1
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	16
100327	3/8" Standard Hex Nut, SST	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	6
100173	3/8" x 2" BHCS w/Pin, SST	2

DB = Direct Bury

Specifications are subject to change without notice.

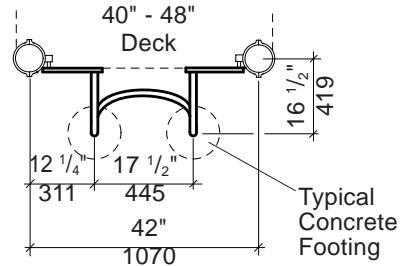
Specifications

Chain:	4/0 Chain zinc plated. Finish: TenderTuff®, color specified.
Rail:	Fabricated from 13/16" diameter x 27 15/16" long CRS solid bar stock with both ends tapped 3/8". Finish: TenderTuff, color specified.
Support:	Fabricated from 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing.
Handhold Panel:	Solid color Permalene®, color specified.
Spacer Tube:	Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". 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. 2 1/2 man hours
Concrete Req.:	Approx. 2.6 cu. ft.
Weight:	Off 32" Deck - 41 lbs. Off 40" Deck - 47 lbs. Off 48" Deck - 52 lbs. Off 56" Deck - 53 lbs. Off 64" Deck - 58 lbs. Off 72" Deck - 64 lbs.
Fall Height:	Deck Height

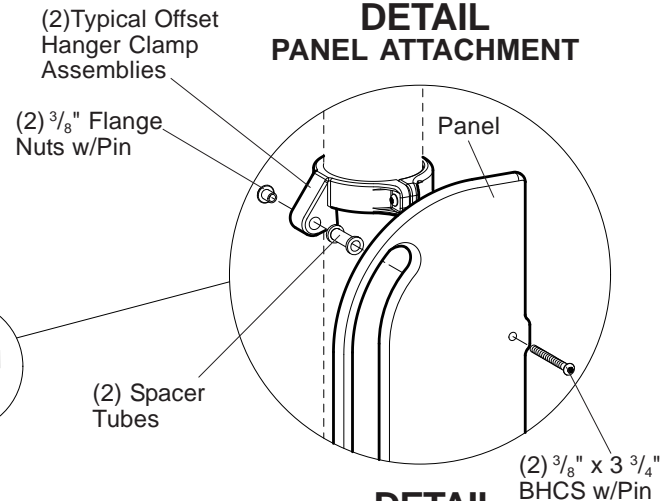
Installation Instructions

- 1) Attach chains and outside holes of handhold panels to the face of deck using 3/8" x 2" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. Attach inside holes of handhold panels to the face of deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Refer to the Deck Mount Detail.
- 2) 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.
- 3) Attach handhold panels to the offset hanger clamp assemblies using 3/8" x 3 3/4" BHCS w/pin, spacer tubes and 3/8" flange nuts w/pin. Refer to Panel Attachment Detail.
- 4) Attach wiggle ladder rails between chains using 3/8" x 1 1/8" BHCS w/pin. Refer to the Rail Attachment Detail. **NOTE:** First rail attaches 13 1/2" or (10) links down from the top of the chain, attach the remaining rails 11" between rails, as shown.
- 5) Determine footing locations by pulling chains tight and laying end on subgrade. Dig footing holes where chains meet subgrade to the width and depth shown.
- 6) Fasten chains to the supports using 3/8" x 7/8" BHCS w/pin and 3/8" standard hex nuts.
- 7) Pour concrete into footing holes. Push supports into concrete until chain is tight and top of support is positioned 1 3/4" above subgrade. Temporarily brace supports into position until concrete has cured. Refer to the Direct Bury Detail.
- 8) After concrete has cured a minimum of 72 hours, remove support brace and install protective surfacing before users are allowed to play on the structure.

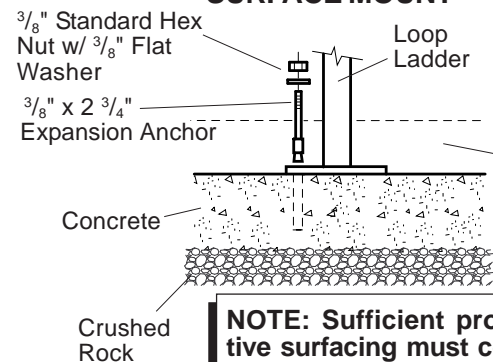
PLAN VIEW/ FOOTING LAYOUT



DETAIL PANEL ATTACHMENT

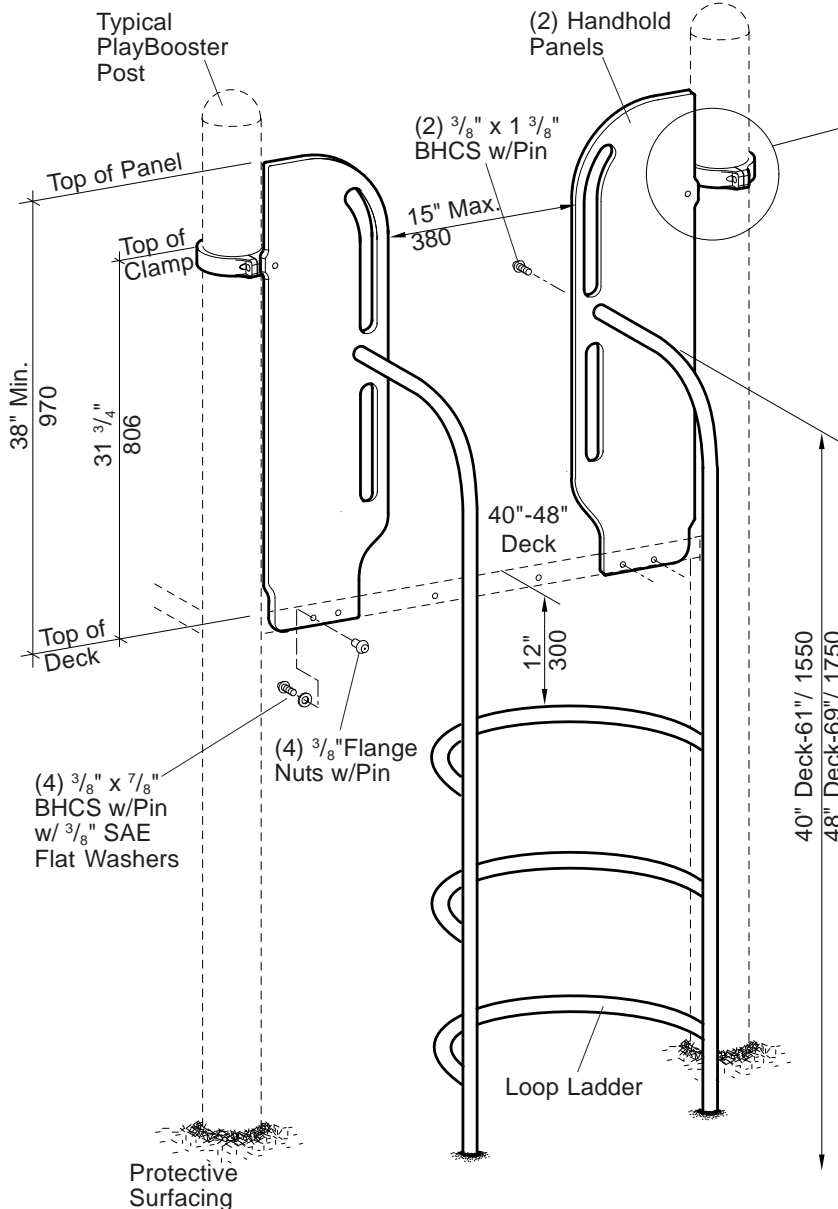
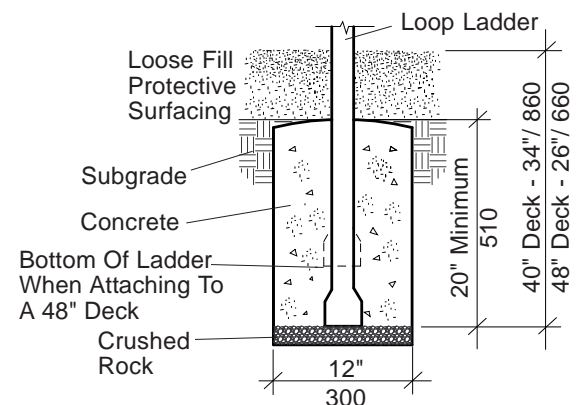


DETAIL SURFACE MOUNT



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

DETAIL DIRECT BURY



PlayBooster®

128252 Loop Ladder, 40"-48"

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 #13989000

Parts List

Part#	Description	Qty.
113558	Loop Ladder (40" & 48") DB, Specify Color	1
112913	Loop Ladder 40" SM, Specify Color	1
113567	Loop Ladder 48" SM, Specify Color	1
139563	Handhold Panel, Specify Color	2
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
113468	Spacer Tube, Specify Color	2
100610	1/4" x 5/8" Drive Rivet AL/SST	2
139892	Loop Ladder (Tenderdeck) Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	6
100365	3/8" SAE Flat Washer, SST	4
113027	3/8" x 1 3/8" BHCS w/Pin, SST	2
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
121256	2-Hole (SM) Hardware Package	1
100263	3/8" x 2 3/4" Expansion Anchor	2
100327	3/8" Standard Hex Nut, SST	2
100365	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® with 3/4" x 1 1/8" handholds, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". 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: SM - Approx. 1 1/2 man hours

DB - Approx. 2 man hours

Concrete Req.: 26" - Approx. 2.6 cu. ft.

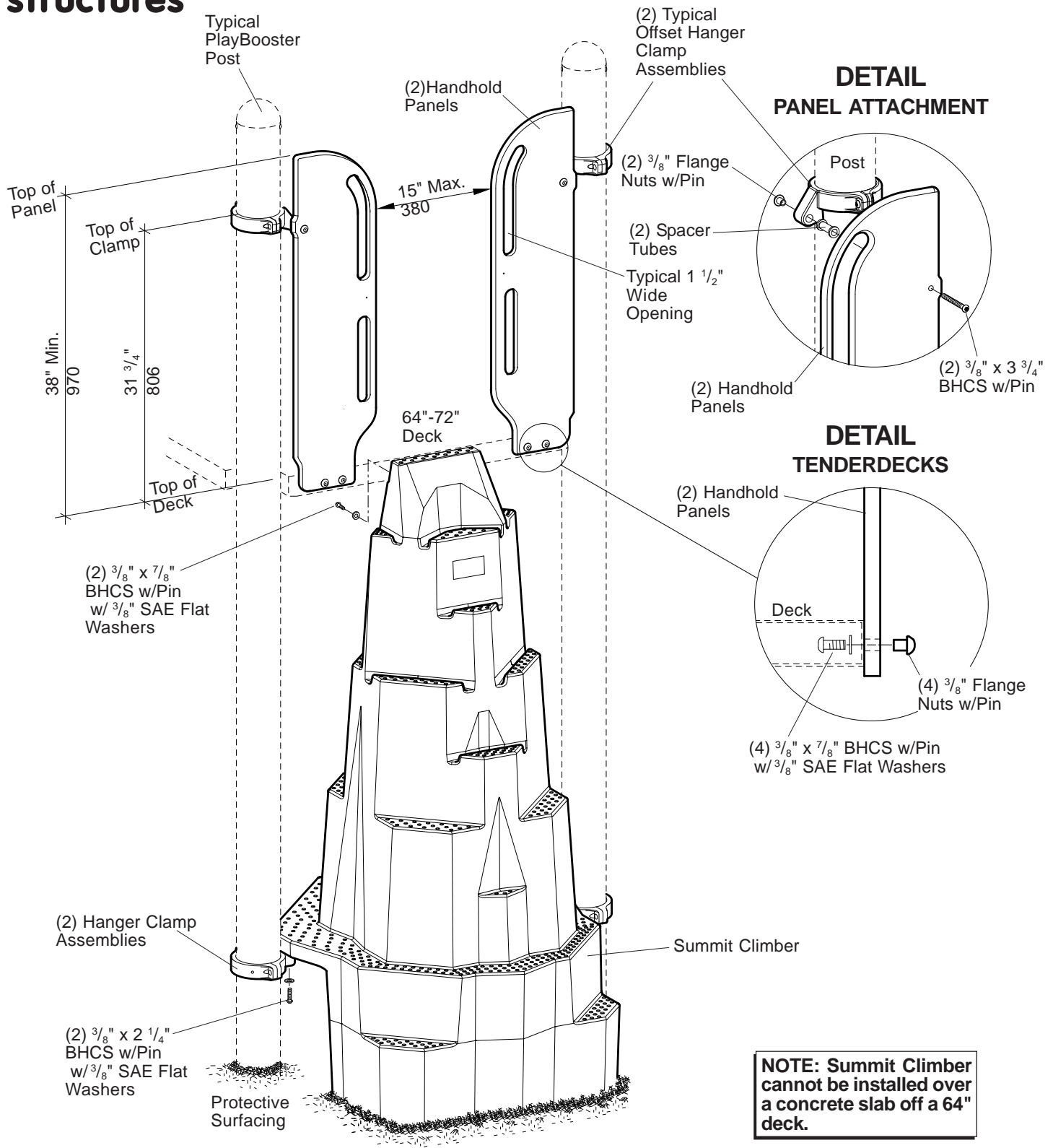
Weight: 64 lbs.

Fall Height: Deck Height

Installation Instructions

- 1) **(Direct Bury)** Dig footing holes spaced as shown.
- 2) Attach the handhold 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" flange nuts w/pin.
- 3) Attach offset hanger clamps to posts at height 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 handhold panels to the offset hanger clamp assemblies 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.
- 5) Using a 7/16" drill bit, drill out the upper 1/8" pilot hole in each handhold panel for attachment of loop ladder.
- 6) Attach loop ladder to handhold panels using 3/8" x 1 3/8" BHCS w/pin.
- 7) **(Direct Bury)** With loop ladder 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) With loop ladder plumb, drill 3/8" x 3" deep holes through mounting plates using hammer drill and 3/8" masonry bit. Tap expansion anchors into drilled holes. Fasten mounting plates to expansion anchors using 3/8" standard hex nuts with 3/8" SAE flat washers.
- 8) Install protective surfacing before users are allowed to play on the structure.





PlayBooster® 128608 Summit Climber™, 64"-72" Deck

Parts List

Part#	Description	Qty.
Single Summit Climber		
126791	Summit Climber, Specify Color	1
139563	Handhold Panel, Specify Color	2
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	2
121289	Hanger Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
113468	Spacer Tube, Specify Color	2
139894	Summit Climber (Single) Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	6
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8
100199	3/8" x 2 1/4" BHCS w/Pin, SST	2
100351	3/8" Tee Nut, SST	8
100353	3/8" Flange Nut w/Pin, SST	6
100365	3/8" SAE Flat Washer, SST	8
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
Double Summit Climber		
126791	Summit Climber, Specify Color	2
139563	Handhold Panel, Specify Color	4
105327	5" Half Clamp, Specify Color	7
113729	Offset Hanger Clamp, Specify Color	4
121289	Hanger Clamp, Specify Color	3
100610	1/4" x 5/8" Drive Rivet, AL/SST	7
113468	Spacer Tube, Specify Color	4
126910	Support Plate, Specify Color	1
139895	Summit Climber (Double) Hardware Package ..	1
100196	3/8" x 7/8" BHCS w/Pin, SST	14
100198	3/8" x 1 1/8" BHCS w/Pin, SST	14
100199	3/8" x 2 1/4" BHCS w/Pin, SST	2
100351	3/8" Tee Nut, SST	14
100353	3/8" Flange Nut w/Pin, SST	13
100365	3/8" SAE Flat Washer, SST	17
113027	3/8" x 1 3/8" BHCS w/Pin, SST	1
124460	3/8" x 3 3/4" BHCS w/Pin, SST	4
Triple Summit Climber		
126791	Summit Climber, Specify Color	3
139563	Handhold Panel, Specify Color	6
105327	5" Half Clamp, Specify Color	10
113729	Offset Hanger Clamp, Specify Color	6
121289	Hanger Clamp, Specify Color	4
100610	1/4" x 5/8" Drive Rivet, AL/SST	10
113468	Spacer Tube, Specify Color	6
126910	Support Plate, Specify Color	2
139896	Summit Climber (Triple) Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	22
100198	3/8" x 1 1/8" BHCS w/Pin, SST	20
100199	3/8" x 2 1/4" BHCS w/Pin, SST	4
100351	3/8" Tee Nut, SST	20
100353	3/8" Flange Nut w/Pin, SST	20
100365	3/8" SAE Flat Washer, SST	26
113027	3/8" x 1 3/8" BHCS w/Pin, SST	2
124460	3/8" x 3 3/4" BHCS w/Pin, SST	6

Specifications

- Summit Climber:** Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
- Handhold Panel:** Solid color Permalene®, color specified.
- Support Plate:** Fabricated from 7 GA (.179") HRPO flat steel. Finish: ProShield®, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". 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: Single Approx. 2 man hours
Double Approx. 4 man hours
Triple Approx. 6 man hours

Weight: Single 100 lbs.
Double 199 lbs.
Triple 298 lbs.

Fall Height: Deck Height

Installation Instructions

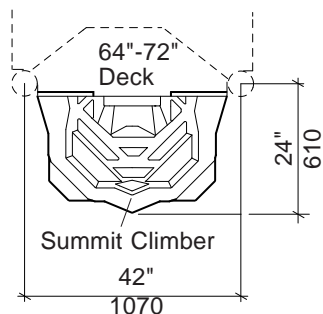
- 1) Attach offset hanger clamps to posts at height shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 2) Attach handhold panels to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Refer to the Tenderdeck Detail.
- 3) Attach handhold panels to the offset hanger clamp assemblies 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.
- 4) Attach summit climber or climbers to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers, as shown.
- 5) **(Single Summit Climber)** Attach hanger clamps to summit climber using 3/8" x 2 1/4" BHCS w/pin with 3/8" SAE flat washers. Attach hanger clamps to posts 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.

(Double Summit Climber) Attach the support plate to the hanger clamp using 3/8" x 1 3/8" BHCS w/pin with 3/8" SAE flat washer and 3/8" flange nut w/pin. Attach the support plate to the summit climbers using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers. Refer to the Support Plate Detail. Attach hanger clamp to the post 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. Refer to the Single Summit Climber Instruction above for the outer hanger clamp assembly.

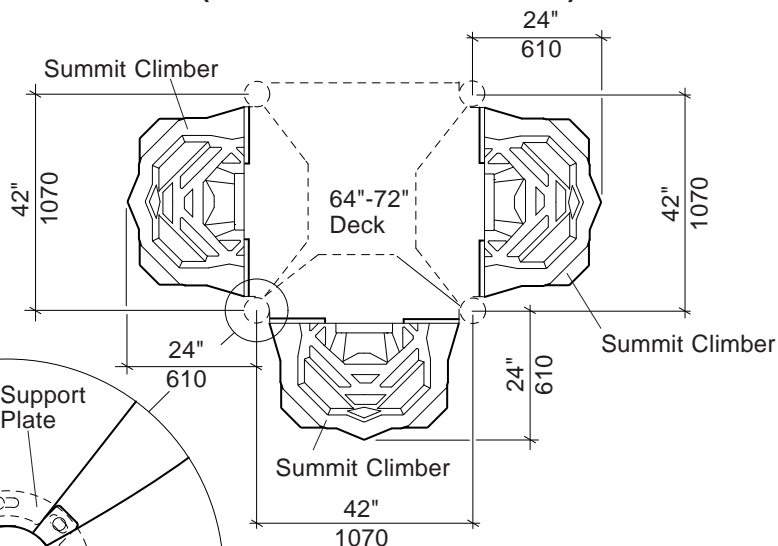
(Triple Summit Climber) Attach the support plates to the hanger clamps using 3/8" x 1 3/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Attach the support plates to the summit climbers using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers. Refer to the Support Plate Detail. Attach hanger clamps to the posts 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. Refer to the Single Summit Climber Instruction above for the outer hanger clamp assembly.

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

**PLAN VIEW
(SINGLE SUMMIT CLIMBER)**

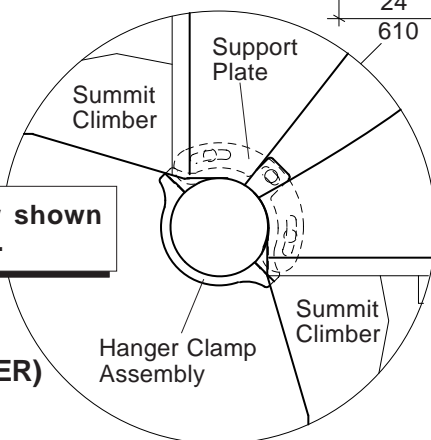
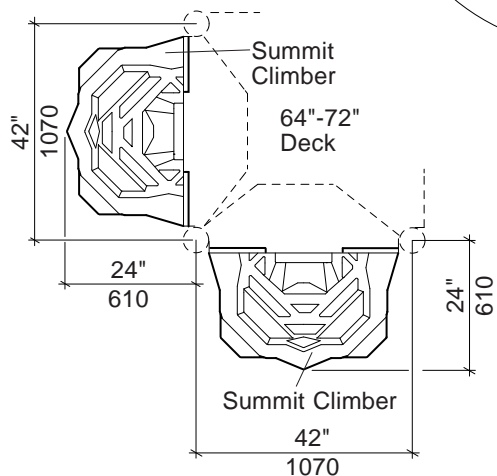


**PLAN VIEW
(TRIPLE SUMMIT CLIMBER)**

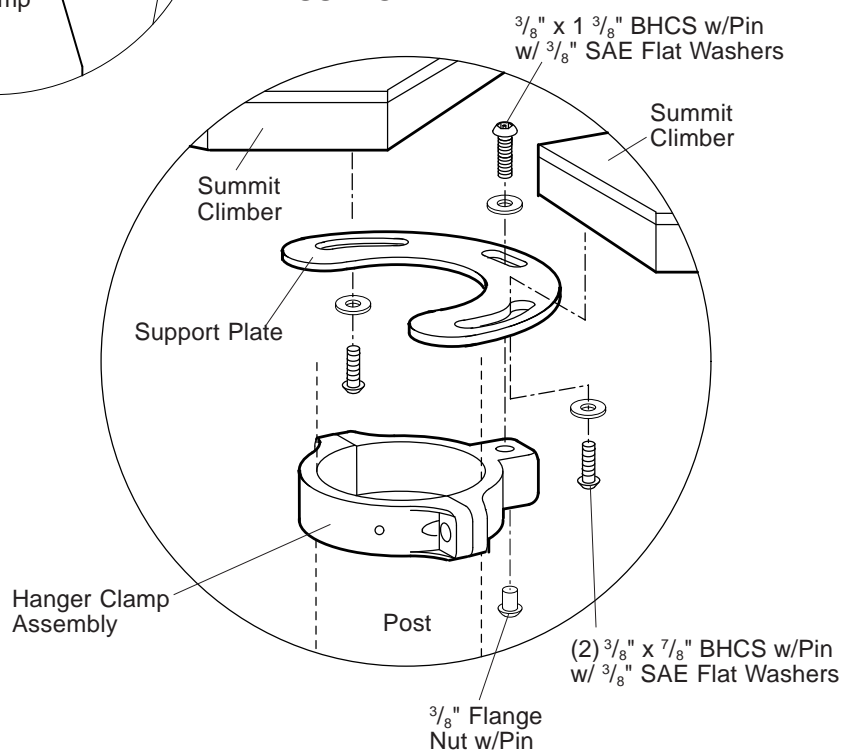


**NOTE: View shown
without deck.**

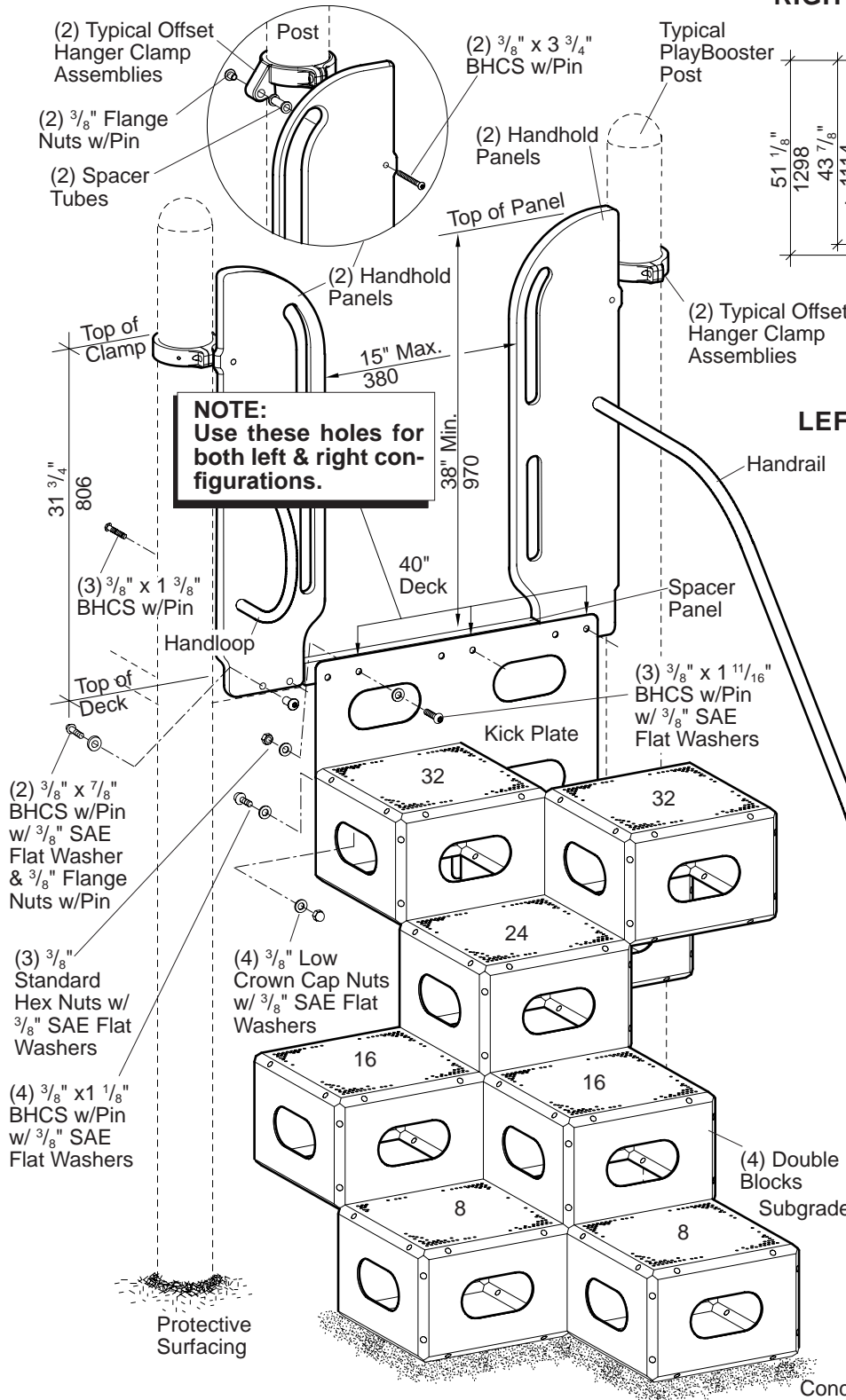
**PLAN VIEW
(DOUBLE SUMMIT CLIMBER)**



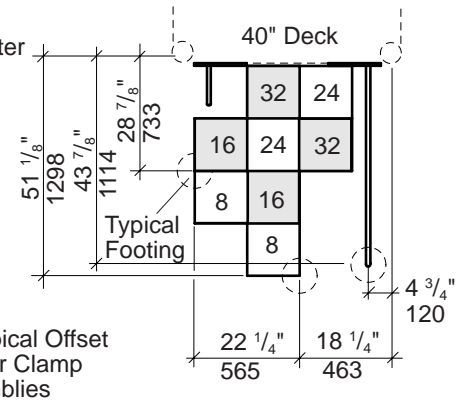
**DETAIL
SUPPORT PLATE**



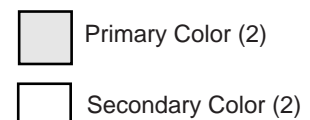
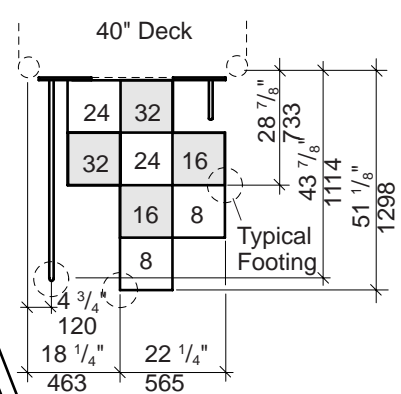
**DETAIL
PANEL ATTACHMENT**



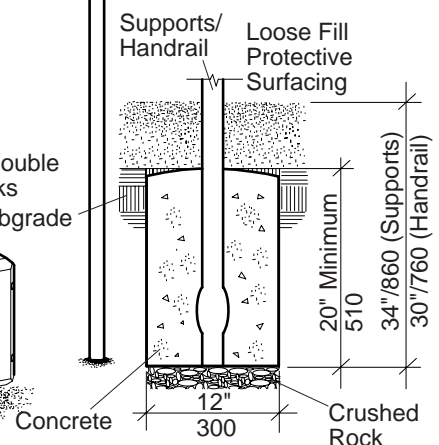
**PLAN VIEW/FOOTING LAYOUT
RIGHT CONFIGURATION (SHOWN)**



LEFT CONFIGURATION



**DETAIL
DIRECT BURY FOOTING**



Parts List

Part#	Description	Qty.
142386	Primary Double Block, Specify Color.....	2
186038	Secondary Double Block, Specify Color.....	2
139563	Handhold Panel, Specify Color	2
135553	Handloop, Specify Color	1
135075	Handrail (DB), (32"/40" Deck), Specify Color.....	1
135076	Handrail (SM), (40" Deck), Specify Color.....	1
117429	Kick Plate, Specify Color.....	1
122776	Spacer Panel, Specify Color.....	1
113468	Spacer Tube, Specify Color.....	2
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, SST	2
142387	Support (DB), Specify Color.....	2
142388	Support (SM), Specify Color.....	2
211473	Block Climber Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	6
100198	3/8" x 1 1/8" BHCS w/Pin, SST	26
100327	3/8" Standard Hex Nut, SST	7
100349	3/8" Low Crown Cap Nut, SST	22
100351	3/8" Tee Nut, SST.....	4
100353	3/8" Flange Nut w/Pin, SST.....	4
100365	3/8" SAE Flat Washer, SST.....	60
113027	3/8" x 1 3/8" BHCS w/Pin, SST	3
123224	3/8" 1 11/16" BHCS w/Pin, SST	3
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
111392	2-Hole (SM) Hardware Package	3
100266	1/2" x 2 3/4" Expansion Anchor	6
100322	1/2" Standard Hex Nut, SST	6
100363	1/2" Flat Washer, SST	6

DB = Direct Bury
SM=Surface Mount

Specifications

Double Block:	Fabricated from 14 GA (.075") (1,91 mm) HRPO steel sheet with 3" (76 mm) tall x 6" (152 mm) long cutouts. Blocks measure 8" (203 mm) high and 12 1/2" (318 mm) square. (2) blocks are welded to each other to make Double Blocks. Finish: TenderTuff™, color specified.
Handhold Panel:	Solid color Permalene®, color specified.
Spacer Panel:	Solid color Permalene, color specified.
Handloop:	Weldment comprised of 1.125" (28,58 mm) O.D. 11 GA (.120") (3,05 mm) steel tubing with 203 or 303 stainless steel inserts, with 3/8" (9,53 mm) internal thread. Finish: TenderTuff, color specified.
Handrail:	Weldment comprised of 1.125" (28,58 mm) O.D. 11 GA (.120") (3,05 mm) steel tubing with 203 or 303 stainless steel inserts, with 3/8" (9,53 mm) internal thread. Finish: TenderTuff, color specified.
Support:	Weldment comprised of 1.315" (33,40 mm) O.D. RS20 (.090" - .100") (2,29 mm-2,54 mm) galvanized steel tubing and 10 GA (.135") (3,43 mm) HRPO steel sheet. Finish: ProShield®, color specified.
Kick Plate:	Fabricated from 12 GA (.105") (2,67 mm) HRPO steel sheet with 3" (76 mm) tall x 6" (152 mm) long cutouts. Finish: TenderTuff, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22,23 mm) O.D. x 1 11/16" (42,85 mm). 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: SM - Approx. 2 3/4 man hours
DB - Approx. 3 3/4 man hours

Concrete Req.: Approx. 3.93 cu. ft.

Weight: 182 lbs. (DB)

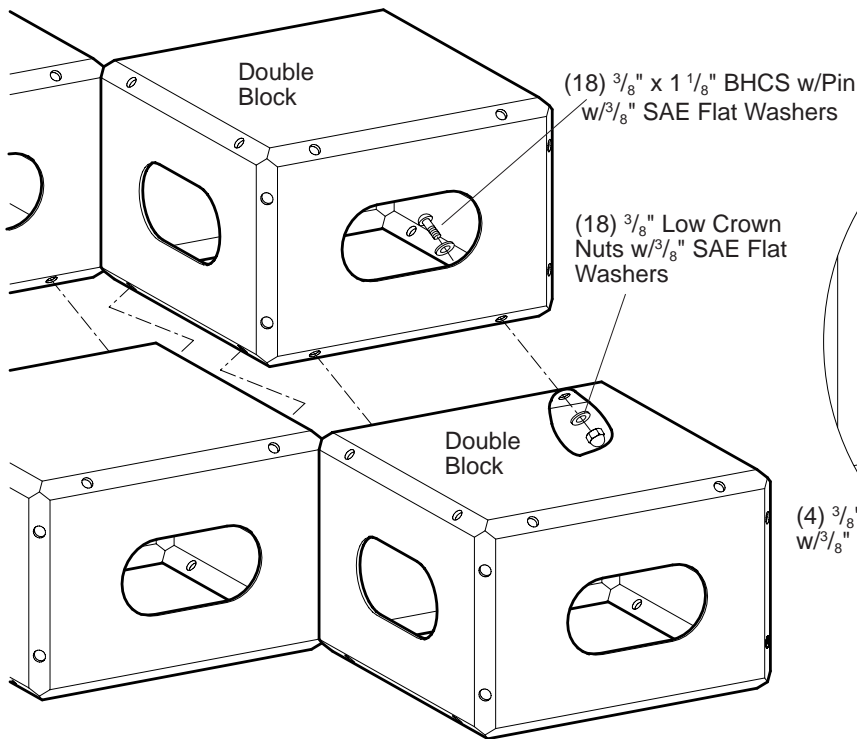
170 lbs. (SM)

Fall Height: Deck Height

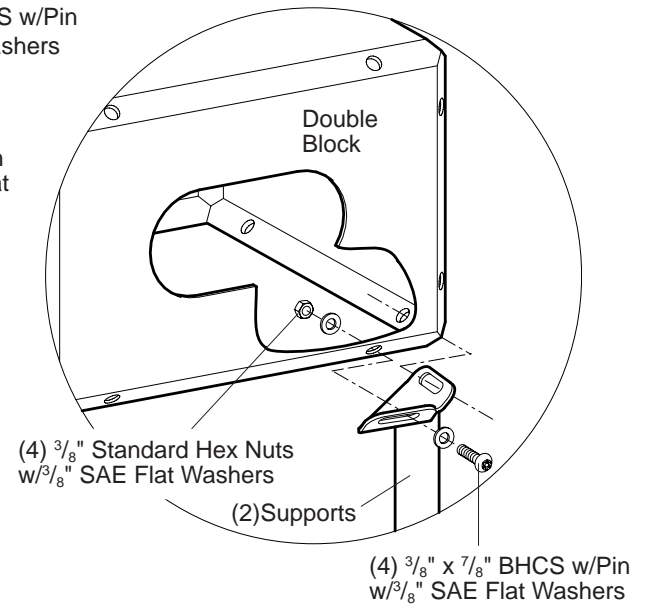
Installation Instructions

- (Direct Bury)** Dig footings spaced as shown.
- Assemble blocks in the left or right configuration shown on the front sheet using 3/8" x 1 1/8" BHCS w/Pin with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers. Attach using the outside holes on blocks only. Refer to sheet (2) of (2). Block colors are meant to be alternated. Primary Color: 16" and 32" heights, as shown. Secondary Color: 8" and 24" height, as shown.
- Attach kick plate to the blocks using 3/8" x 1 1/8" BHCS w/Pin with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers.
- Attach supports 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 configuration shown and the Direct Bury or Surface Mount Detail.
- Attach climber, spacer panel and one handhold panel to the face of deck using 3/8" x 1 11/16" BHCS w/Pin and 3/8" standard hex nuts with 3/8" SAE flat washers. Attach the other handhold panel using 3/8" x 7/8" BHCS w/Pin with 3/8" SAE flat washer and 3/8" flange nut w/pin.
NOTE: Be sure spacer panel is centered and handhold panel is snug to spacer panel.
- Attach offset hanger clamps to posts at height 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.
- Attach handhold panels to the offset hanger clamp assemblies 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. Using a 7/16" drill bit, drill out 1/8" pilot holes in each handhold panel to attach handloop & handrail.
- Position handrail and attach to handhold panel using 3/8" x 1 3/8" BHCS w/Pin.
- Attach handloop to handhold panel using 3/8" x 1 3/8" BHCS w/Pin.
- (Direct Bury)** With climber and handrail 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.
(Surface Mount) Mark anchor bolt locations on concrete slab through holes in anchor plates and remove climber. Drill 1/2" x 3" deep holes on marks into concrete using hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Reposition climber 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.

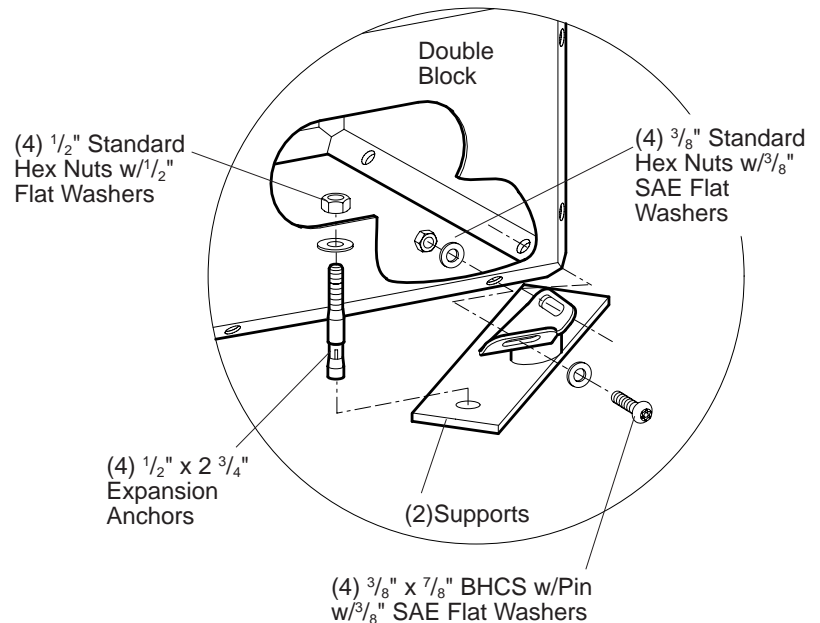
**DETAIL
TYPICAL BLOCK ASSEMBLY**



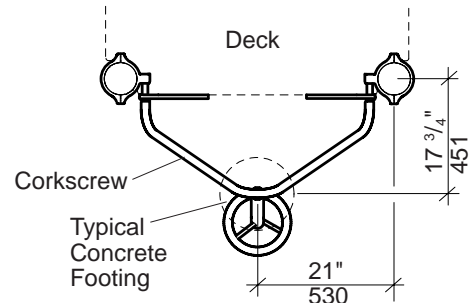
**DETAIL/SUPPORTS
DIRECT BURY**



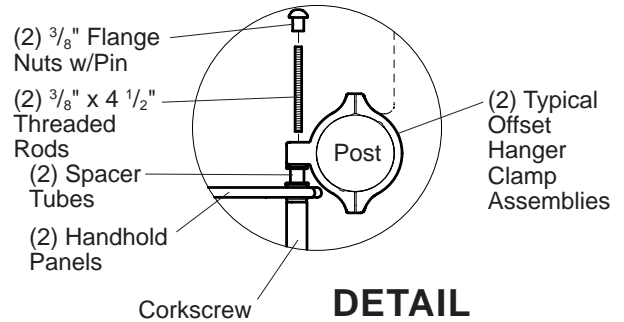
**DETAIL/SUPPORTS
SURFACE MOUNT**



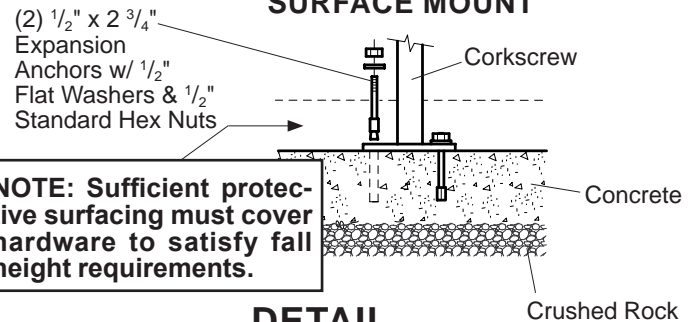
PLAN VIEW/ FOOTING LAYOUT



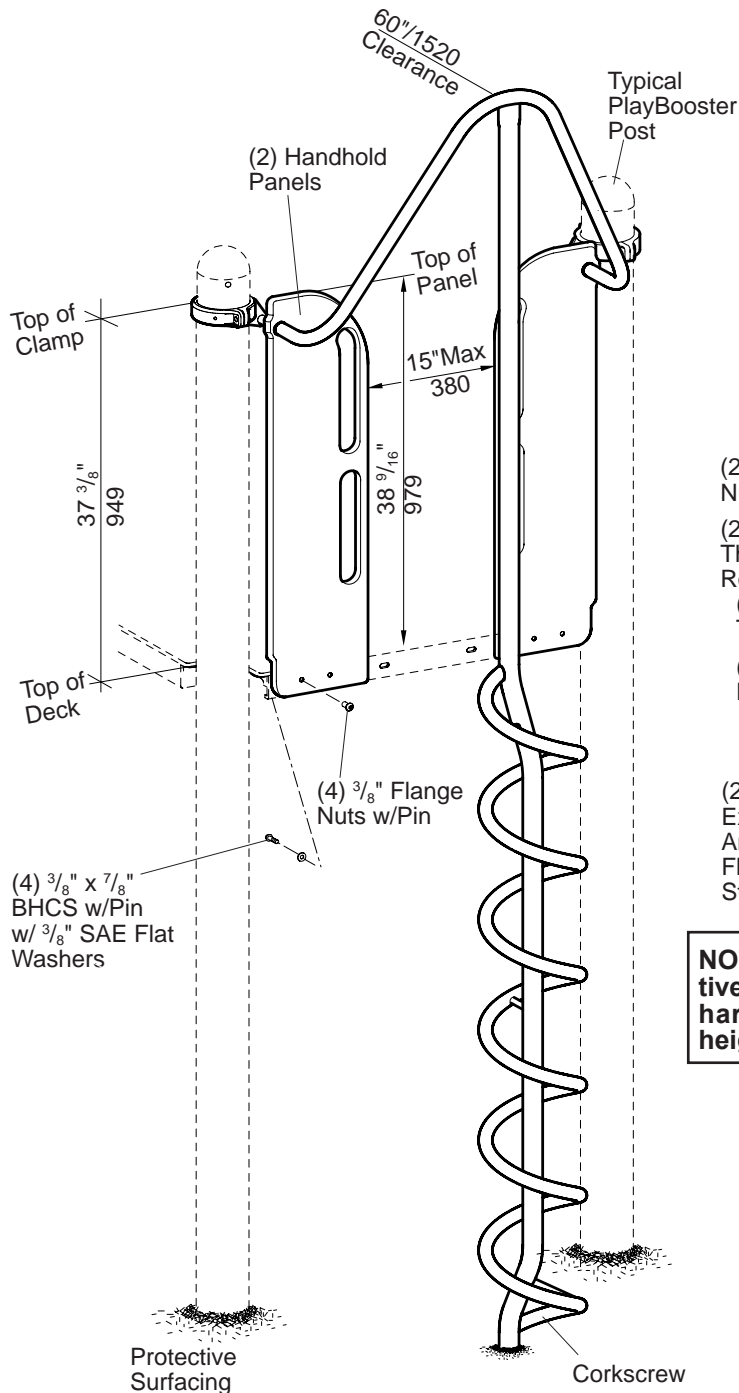
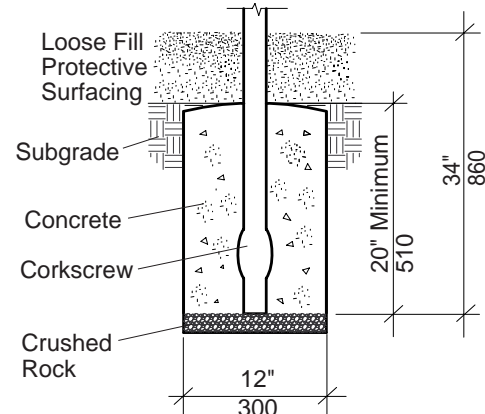
DETAIL HANDHOLD PANEL ATTACHMENT



DETAIL SURFACE MOUNT



DETAIL DIRECT BURY



72" Deck Height Shown

PlayBooster®

148432 Corkscrews, 32"-72" Decks

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

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Document #14814600

Parts List

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

DB = Direct Bury

SM = Surface Mount

Specifications

Corkscrew: Weldment comprised of 1.900" O.D. RS-40 (.120 - .130") 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 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).

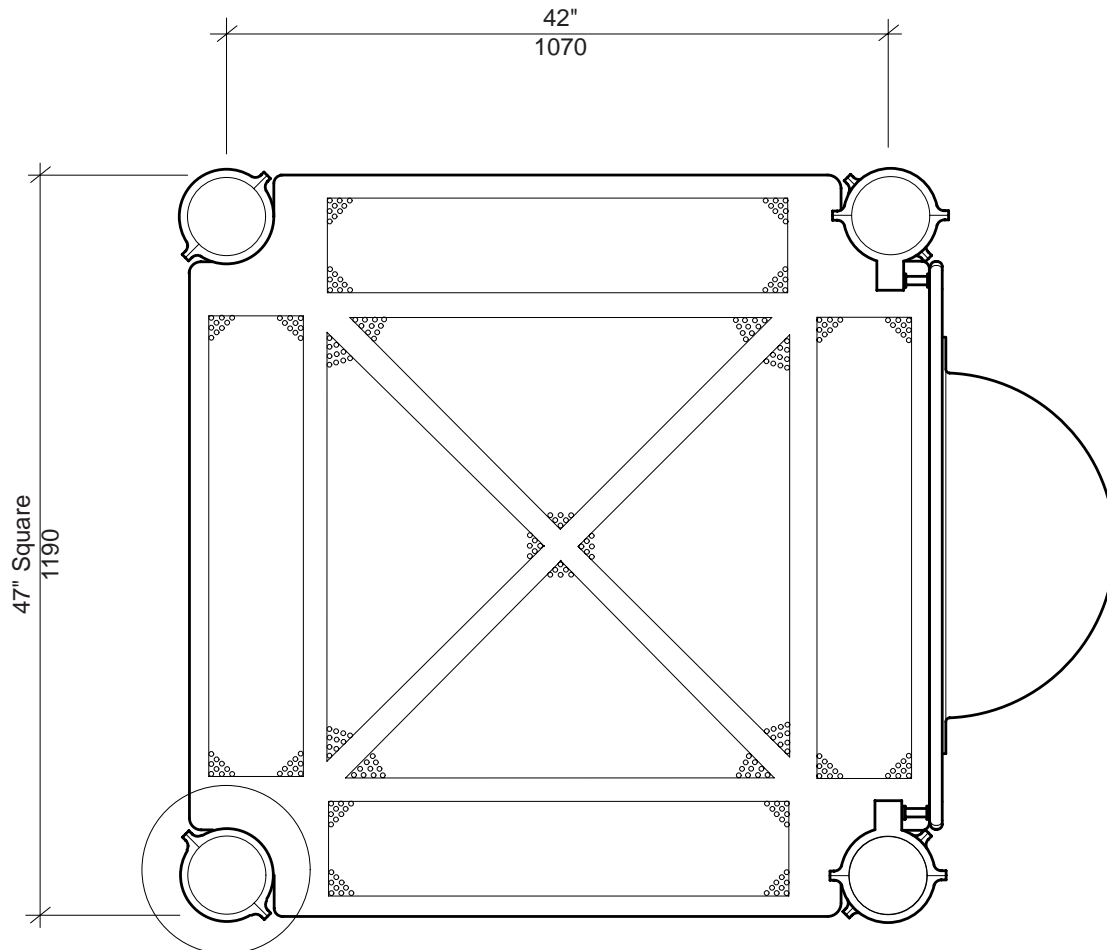
Installation Time: SM - Approx. 1 1/2 man hours
DB - Approx. 2 man hours

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)

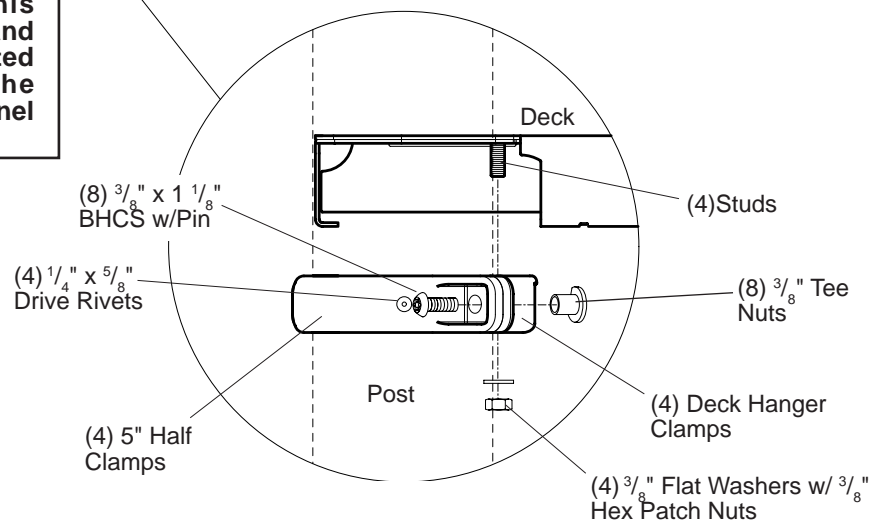
Installation Instructions

- 1) **(Direct Bury)** Dig footing hole as shown. Refer to the Plan View/Footing Layout.
 - 2) 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.
 - 3) Attach handhold 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" flange nuts w/pin.
 - 4) Attach corkscrew to handhold panels and offset hanger clamps using 3/8" flange nuts w/pin, 3/8" x 4 1/2" threaded rods and spacer tubes. Refer to the Handhold Panel Attachment Detail. **NOTE: Turn 3/8" x 4 1/2" threaded rod into 3/8" flange nut w/pin until it bottoms out, before attaching corkscrew.**
 - 5) **(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 1/2" x 3" deep holes through support plate using hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Fasten support plates to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.
- 6) Install protective surfacing before users are allowed to play on the structure.



**DETAIL
DECK HANGER CLAMP**

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



Parts List

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

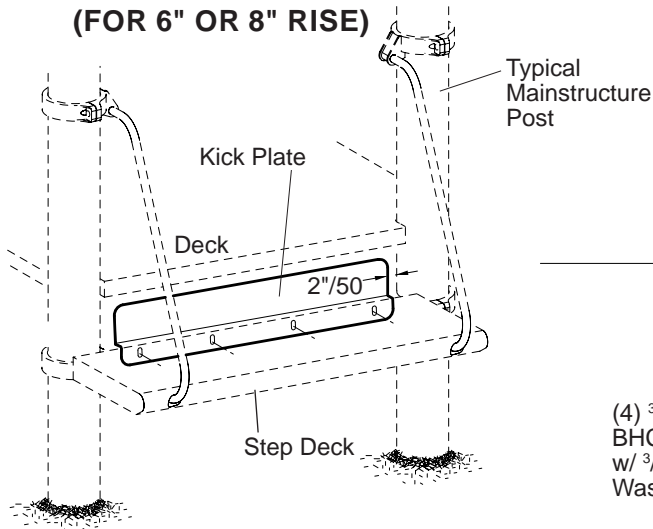
Installation Time: Approx. 1 man hour

Weight: 119 lbs.

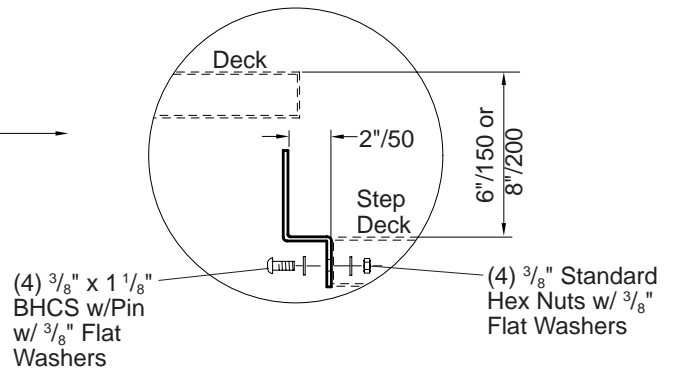
Installation Instructions

- 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.

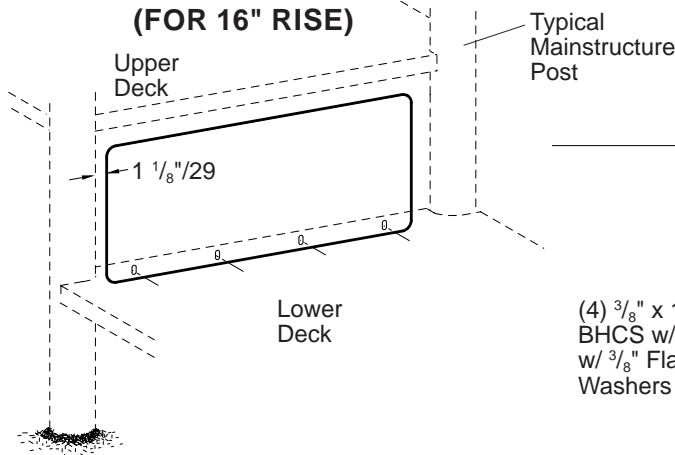
**KICK PLATE
(FOR 6" OR 8" RISE)**



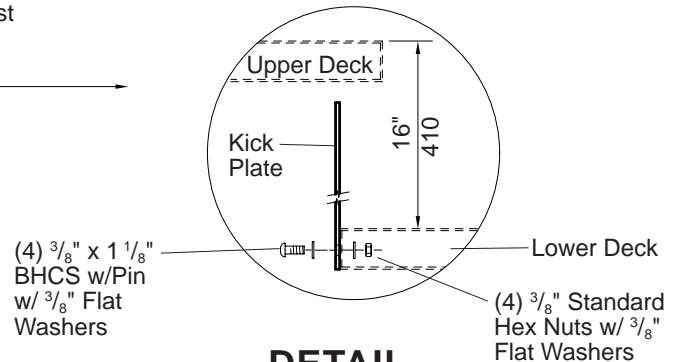
**DETAIL
KICK PLATE ATTACHMENT
(FOR 6" OR 8" RISE)**



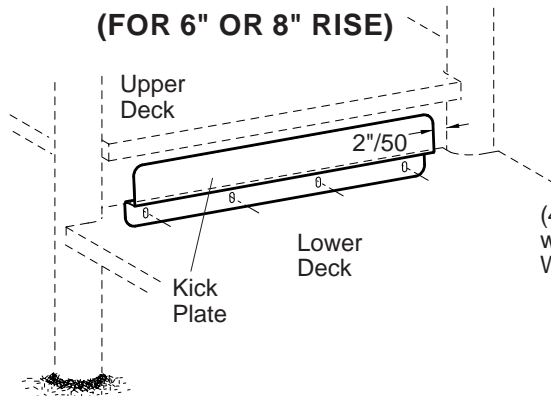
**KICK PLATE
(FOR 16" RISE)**



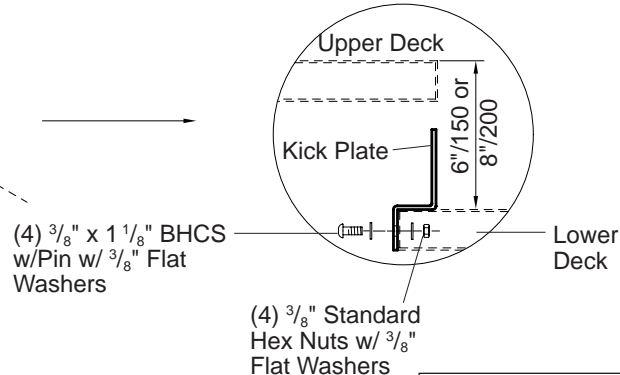
**DETAIL
KICK PLATE ATTACHMENT
(FOR 16" RISE)**



**KICK PLATE
(FOR 6" OR 8" RISE)**



**DETAIL
KICK PLATE ATTACHMENT
(FOR 6" OR 8" RISE)**



NOTE: Kick Plates mount to face of lower deck.



PlayBooster® 121948 Kick Plates, Tenderdecks, 6", 8" & 16"

Parts List

Part#	Description	Qty.
121819	Kick Plate (For 6" or 8" Rise), Specify Color	1
121818	Kick Plate (For 16" Rise), Specify Color	1
156058	Kick Plate Tenderdeck Hardware Package	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	4
100327	$\frac{3}{8}$ " Standard Hex Nut, SST	4
100362	$\frac{3}{8}$ " Flat Washer, SST	8

Specifications

Kick Plate: Fabricated from 11 GA (.120") HR flat steel. Finish: TenderTuff™, brown or gray in color.

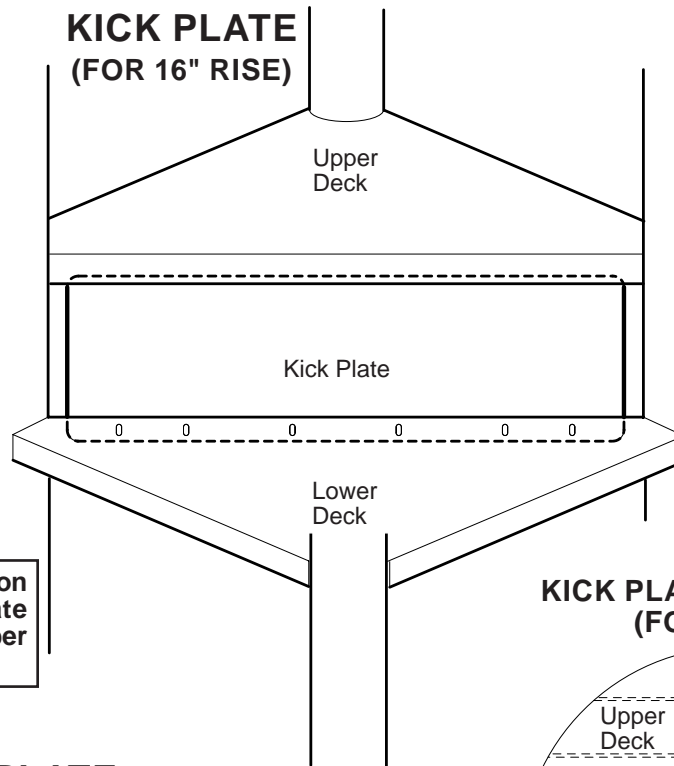
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. $\frac{1}{4}$ man hour
Weight: Kick Plate (For 6" or 8" Rise) 13 lbs.
Kick Plate (For 16" Rise) 23 lbs.

Installation Instructions

- 1) Locate kick plates as labeled on your plan drawing.
- 2) Attach kick plate using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " flat washers, as shown. **NOTE:** *Kick plates mount to face of lower deck.*
- 3) Install protective surfacing before users are allowed to play on the structure.

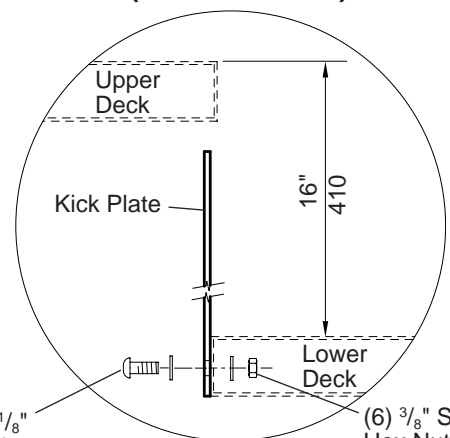
**KICK PLATE
(FOR 16" RISE)**



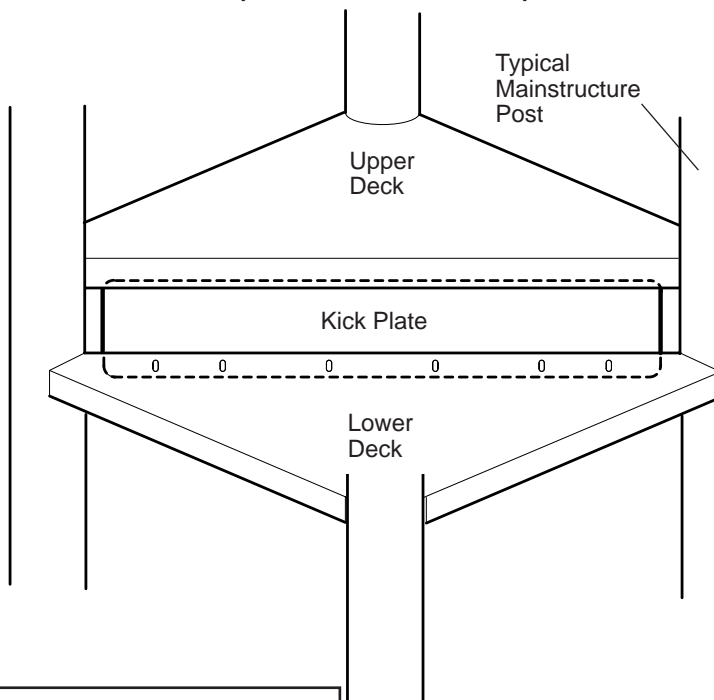
NOTE: Tri-Deck configuration may require the kick plate to be mounted to the upper deck.

DETAIL

**KICK PLATE ATTACHMENT
(FOR 16" RISE)**



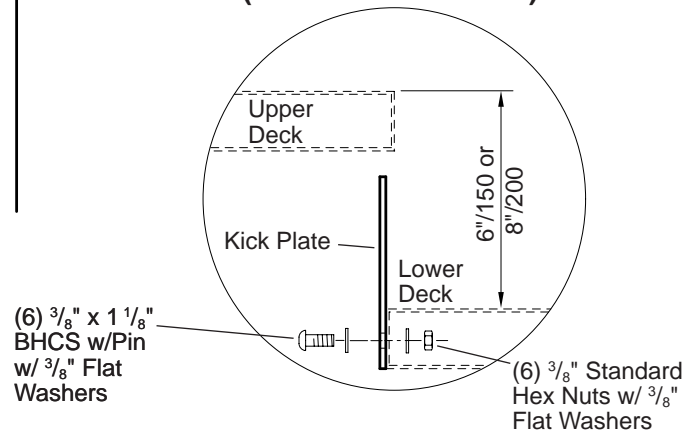
**KICK PLATE
(FOR 6" OR 8" RISE)**



NOTE: Kick Plates mount to face of lower deck.

DETAIL

**KICK PLATE ATTACHMENT
(FOR 6" OR 8" RISE)**



PlayBooster® 121949 Kick Plates, 90° Tri-Decks, 6", 8" & 16"



PlayBooster® 121949 Kick Plates, 90° Tri-Decks, 6", 8" & 16"

Parts List

Part#	Description	Qty.
121820	Kick Plate (For 6" or 8" Rise), Specify Color	1
121822	Kick Plate (For 16" Rise), Specify Color	1
156059	Kick Plate Tenderdeck Hardware Package	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	6
100327	$\frac{3}{8}$ " Standard Hex Nut, SST	6
100362	$\frac{3}{8}$ " Flat Washer, SST	12

Specifications

Kick Plate: Fabricated from 11 GA (.120") HR 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).

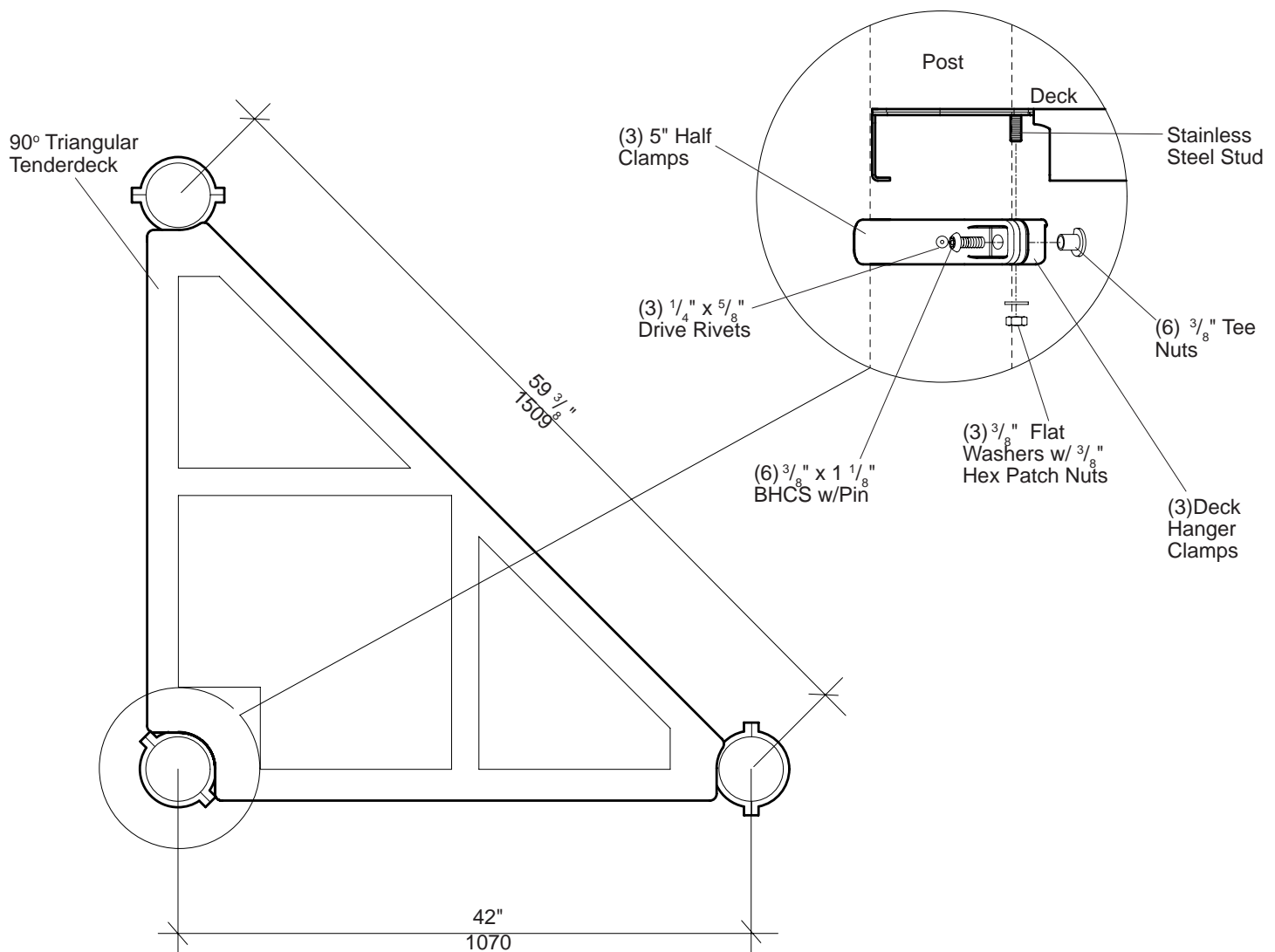
Installation Time: Approx. $\frac{1}{4}$ man hour

Weight: Kick Plate (For 6" or 8" Rise) 13 lbs.
Kick Plate (For 16" Rise) 33 lbs.

Installation Instructions

- 1) Locate kick plates as labeled on your plan drawing.
- 2) Attach kick plate using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " flat washers, as shown. **NOTE:** *Kick plates mount to face of lower deck.*
- 3) Install protective surfacing before users are allowed to play on the structure.

DETAIL DECK HANGER CLAMP



Parts List

Part#	Description	Qty.
145658	90° Tri-Deck, Specify Color	1
105327	5" Half Clamp, Specify Color	3
106022	Deck Hanger Clamp, Specify Color.....	3
120203	Triangular Deck Hardware Package	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	6
100321	$\frac{3}{8}$ " Hex Patch Nut, SST.....	3
100351	$\frac{3}{8}$ " Tee Nut, SST.....	6
100362	$\frac{3}{8}$ " Flat Washer, SST	3
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	3

Specifications

Triangular 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 $37\frac{3}{4}$ ". Finish: TenderTuff™, color specified.

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

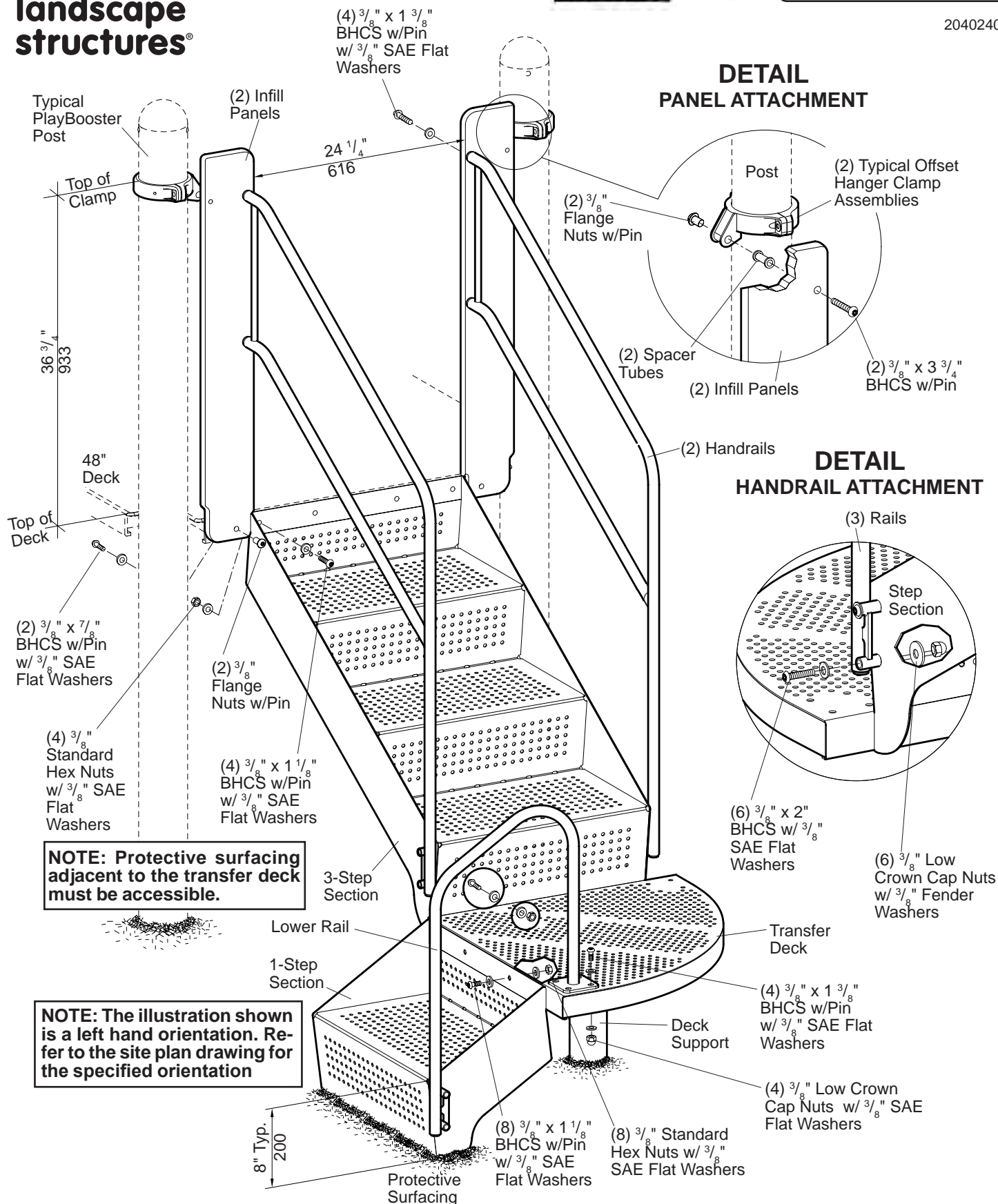
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

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

Weight: 67 lbs.

Installation Instructions

- 1) Mark posts for the appropriate height of the deck you are installing.
- 2) Fasten deck hanger clamps to marked position on posts. See Detail on front of sheet.
- 3) Lift deck assembly into position, lining up stud underneath deck with deck hanger clamp as shown. Attach using $\frac{3}{8}$ " hex patch nuts with $\frac{3}{8}$ " flat washers. With deck level and posts plumb, final tighten all hardware.
- 4) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 5) After attachment of enclosures and components is complete, 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.



PlayBooster® 152911 Transfer Module, 48", w/Handrails

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 #24445200

Parts List

Part#	Description	Qty.
100610	1/2" x 5/8" Drive Rivet, AL/SST	2
105327	5" Half Clamp, Specify Color	2
113468	7/8" O.D. x 1 1/8" Spacer Tube, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
181371	Deck Support (DB), Specify Color	1
181373	Deck Support (SM), Specify Color	1
181374	Step Support (DB), Specify Color	1
181376	Step Support (SM), Specify Color	1
144696	1-Step Section, Specify Color	1
144700	3-Step Section, Specify Color	1
152640	3-Step Handrail, Specify Color	2
152641	Lower Rail, Specify Color	1
153398	Transfer Deck, Specify Color	1
153399	Infill Panel, Specify Color	2
204034	Transfer Module Hardware Package	1
100173	3/8" x 2" BHCS, SST	6
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	20
100327	3/8" Standard Hex Nut, SST	16
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	54
113027	3/8" x 1 3/8" BHCS w/Pin, SST	8
124460	3/8" x 3 3/8" BHCS w/Pin, SST	2
100378	3/8" Fender Washer, SST	6
100349	3/8" Low Crown Cap Nut, SST	12
111393	4-Hole (SM) Hardware Package	1
100263	3/8" x 2 3/8" Expansion Anchors	4
100327	3/8" Standard Hex Nut, SST	4
100365	3/8" SAE Flat Washers, SST	4
121256	2-Hole (SM) Hardware Package	1
100263	3/8" x 2 3/8" Expansion Anchors	2
100327	3/8" Standard Hex Nut, SST	2
100365	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 5/16" diameter holes and measures 29" per (2) sides. Finish: TenderTuff™, color specified.
Railings:	Weldment comprised of formed 1 1/8" O.D. x 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts with 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 3/8" wide x 14" deep and is perforated with 5/16" diameter holes. Finish: TenderTuff, color specified.
Spacer Tube:	Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". Finish: ProShield®, color specified.
Panel:	Solid color Permalene® panel, color specified.
Deck Support:	Weldment comprised of 3 1/2" O.D. RS20 (.125") galvanized steel tubing and 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 3/4" x 1 3/4" x 1/8" HR angle. 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 - 264 lbs. DB - 279 lbs.
Fall Height:	Deck Height

Installation Instructions

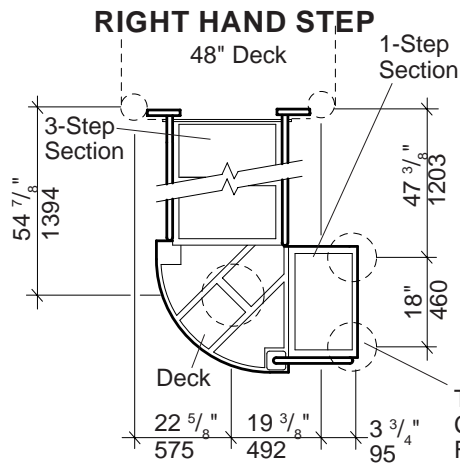
- (Direct Bury)** Dig footings as shown. Refer to your Plan View/Footing Layout.
 - Attach the deck support to the transfer deck using 3/8" x 7/8" BHCS w/pin and 3/8" low crown cap nuts with 3/8" SAE flat washers. **NOTE: Make sure 3/8" rod on support is under support strap on deck as shown.** Refer to the Deck Support Attachment Detail.
 - Attach the 3-step section to the transfer deck 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.
 - Attach the 3-step section to the face of the mainstructure deck 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.
 - Attach the step support to the 1 step section 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. Refer to the Step Support Attachment Detail.
 - Attach the 1-step section to the transfer deck 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.
 - 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.
 - Attach infill panels to the face of the mainstructure deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin.
 - Attach infill panels to offset hanger clamp assemblies using 3/8" x 3 3/4" BHCS, spacer tubes and 3/8" flange nuts w/pin. See Panel Attachment Detail.
 - Attach the handrails to the 3-step section using 3/8" x 2" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" fender washers. Refer to the Handrail Attachment Detail.
 - Attach the handrails to the infill panels using 3/8" x 1 3/8" BHCS w/pin and 3/8" SAE flat washers.
 - Attach the lower rail to the transfer deck using 3/8" x 1 3/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers.
 - Attach the lower rail to the 1-step section using 3/8" x 2" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 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 3/8" x 3" deep holes on marks using hammer drill and 3/8" masonry bit. Reposition module over drilled holes and tap expansion anchors into drilled holes. Fasten support plates to expansion anchors using 3/8" standard hex nuts with 3/8" SAE flat washers. Reattach module to structure.
- Install 1/2" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
 - Install protective surfacing before users are allowed to play on the structure.

NOTE: Refer to the site plan drawing for proper orientation.

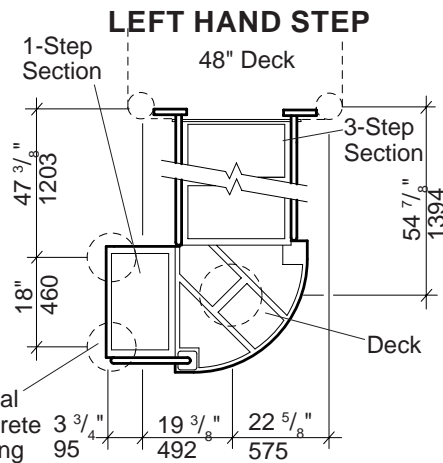
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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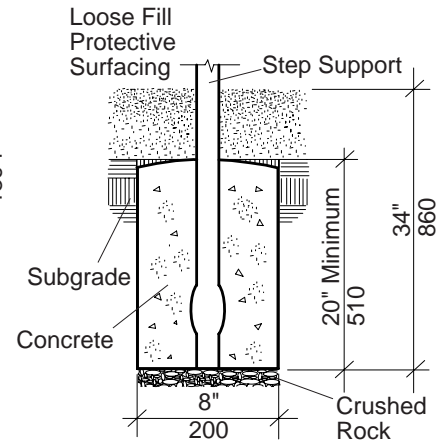
**PLAN VIEW
FOOTING LAYOUT**



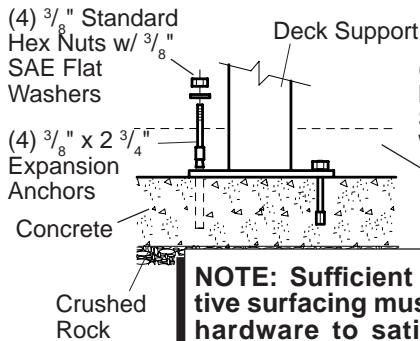
**PLAN VIEW
FOOTING LAYOUT**



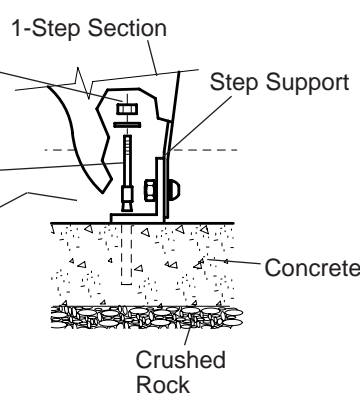
**DETAIL
STEP SUPPORT BURY**



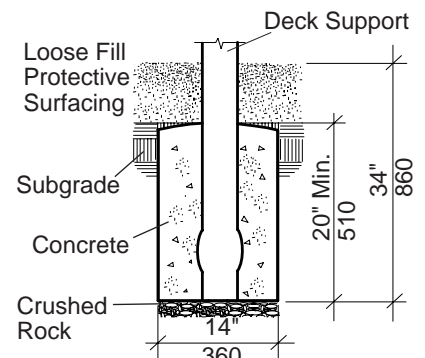
**DETAIL
SURFACE MOUNT
DECK SUPPORT**



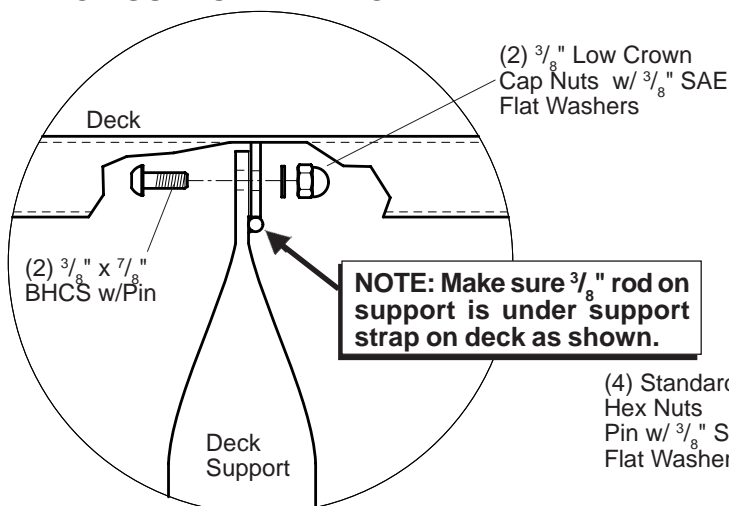
**DETAIL
SURFACE MOUNT
STEP SUPPORT**



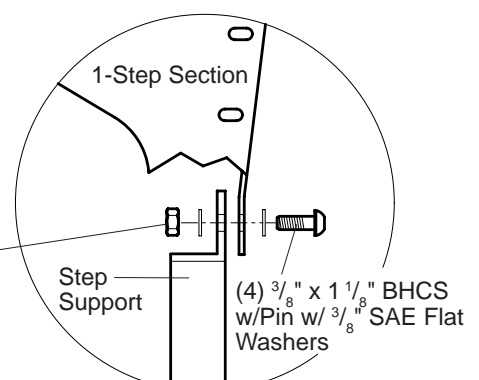
**DETAIL
DECK SUPPORT BURY**



**DETAIL
DECK SUPPORT ATTACHMENT**



**DETAIL
STEP SUPPORT ATTACHMENT**



PlayBooster® 152911 Transfer Module, 48", w/Handrails

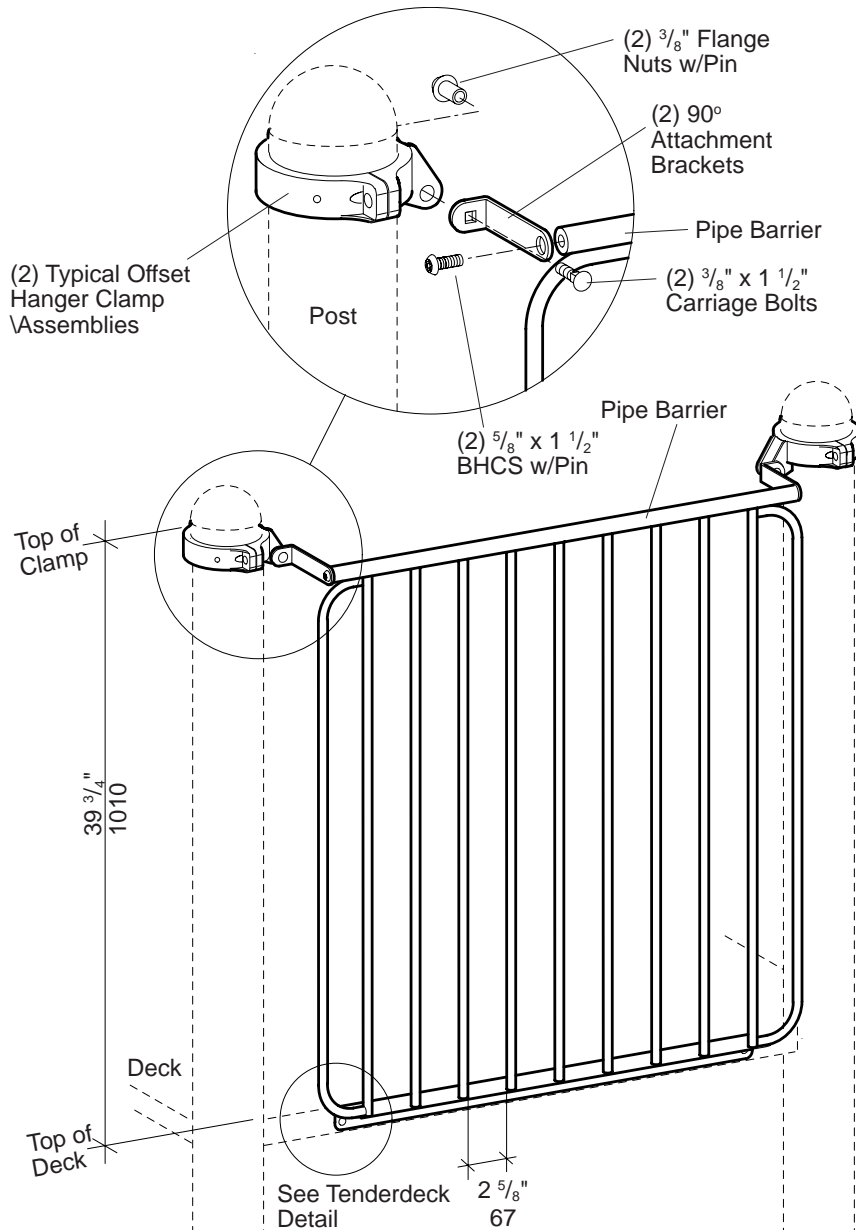
Sheet 2 of 2

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

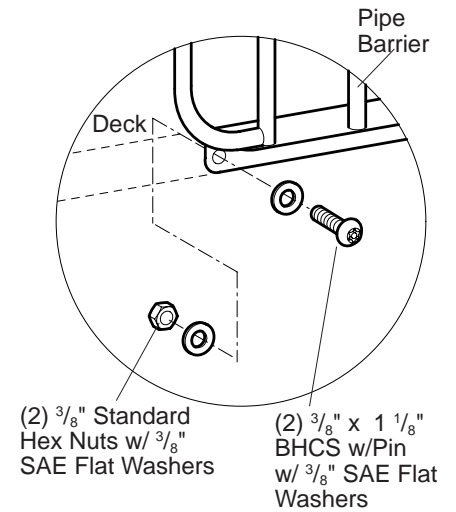
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Document #24445200

**DETAIL
90° ATTACHMENT BRACKETS**



**DETAIL
TENDERDECKS**



DECK MOUNT

Parts List

Part#	Description	Qty.
ABOVE DECK		
132755	Pipe Barrier, Specify Color	1
128824	90° Attachment Bracket, Specify Color.....	2
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, AL/SST	2
132739	Barrier, Above Deck Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	6
100201	5/8" x 1 1/2" BHCS w/Pin, SST	2
100351	3/8" Tee Nut, SST.....	4
100353	3/8" Flange Nut w/Pin, SST.....	2
116017	3/8" x 1 1/2" Carriage Bolt w/Patch, SST.....	2
100327	3/8" Standard Hex Nut, SST	2
100365	3/8" SAE Flat Washer, SST.....	4
BELOW DECK		
132755	Pipe Barrier, Specify Color	1
128824	90° Attachment Bracket, Specify Color.....	2
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
113464	Angled Panel Bracket, Specify Color.....	1
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
132741	Barrier, Below Deck Hardware Package	1
116017	3/8" x 1 1/2" Carriage Bolt, SST	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100203	5/8" x 2 1/4" BHCS w/Pin, SST	2
100351	3/8" Tee Nut, SST.....	8
100201	5/8" x 1 1/2" BHCS w/Pin, SST	2
100327	3/8" Standard Hex Nut, SST	2
100365	3/8" SAE Flat Washer, SST.....	4
100353	3/8" Flange Nut w/Pin, SST	2

Specifications

Barrier:	Weldment comprised of 5/8" solid steel vertical rails, 1 1/8" O.D. x 11 GA (.120") steel horizontal rails with 203 or 303 stainless steel welded inserts with 5/8" internal threads, 1 1/2" x 1 1/2" x 29 1/2" angle iron. Barrier measures 33 7/8" wide x 39 13/16" high. Finish: TenderTuff™, color specified.
90° Bracket:	Formed from 1/4" x 1 1/4" HRPO flat steel. Finish: ProShield®, color specified.
Angled Panel Brkt.:	Weldment comprised of .190" thick 5052 aluminum formed angle with (2) 6061-T6 aluminum threaded tubes 1 1/8" O.D. x 1 1/2" long. 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. 1 man hour
Weight:	Above Deck 52 lbs. Below Deck 56 lbs.

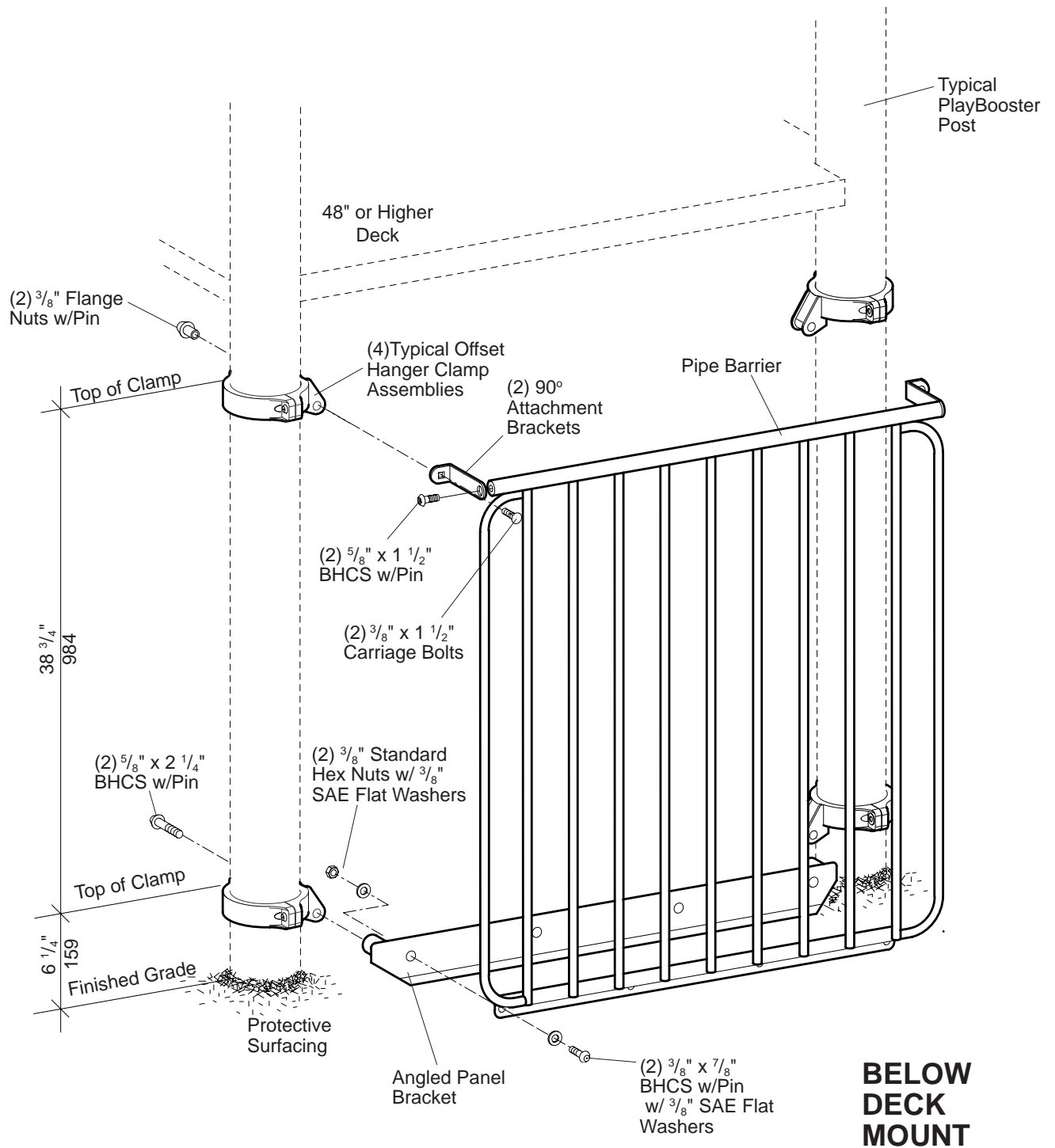
Installation Instructions

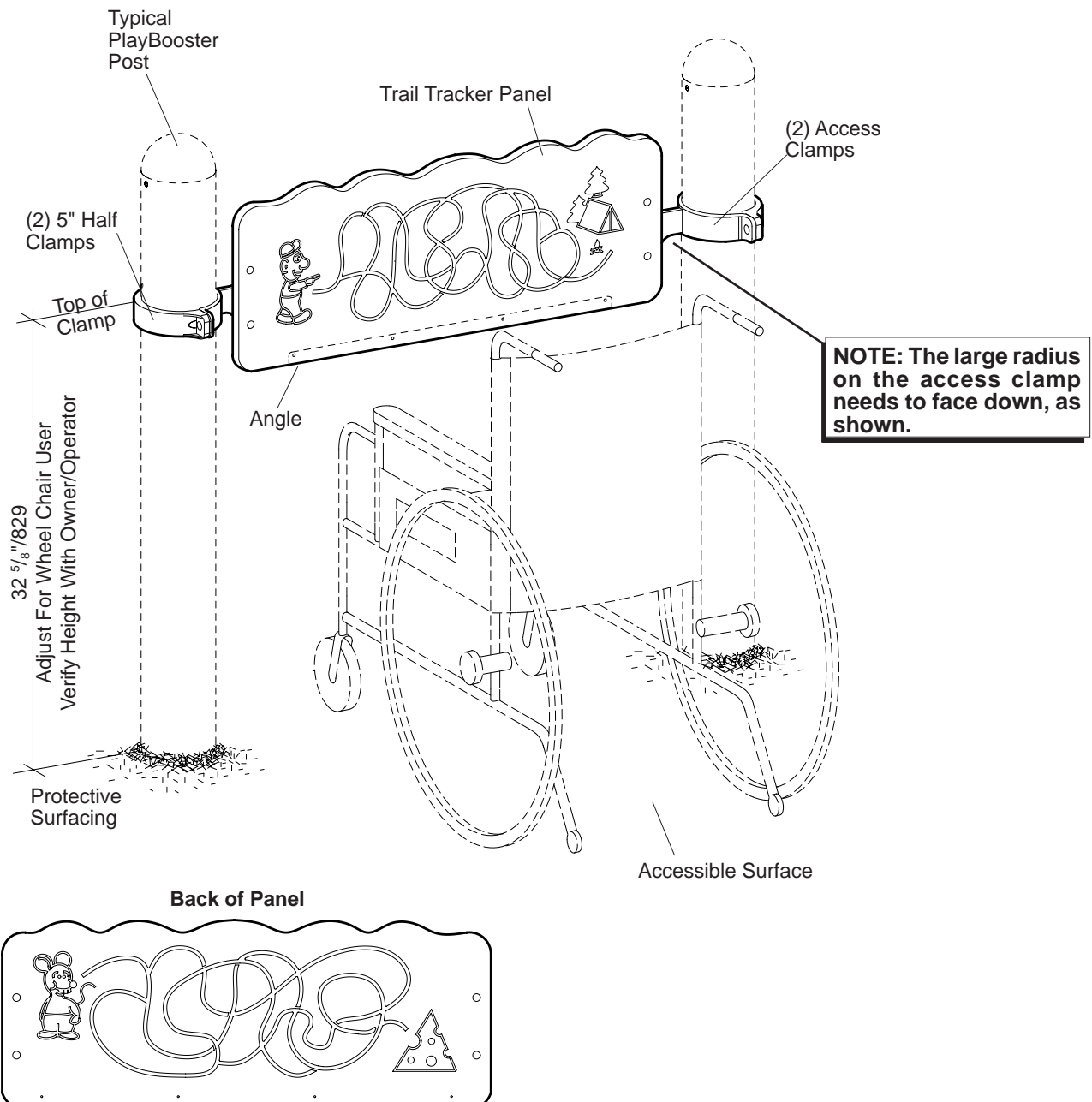
ABOVE DECK (See Sheet 1 of 2)

- 1) Attach pipe barrier to the face of the deck 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. Refer To The Tenderdeck Detail..
- 2) Attach offset hanger clamps to posts at height shown, using 5" half clamps and 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.
- 3) Attach the 90° attachment brackets to pipe barrier using 5/8" x 1 1/2" BHCS w/pin. Refer To The 90° Attachment Bracket Detail.
- 4) Attach the 90° attachment brackets to the offset hanger clamps using 3/8" x 1 1/2" carriage bolts and 3/8" flange nuts w/pin. Refer To The 90° Attachment Bracket Detail.
- 5) Install protective surfacing before users are allowed to play on the structure.

BELOW DECK (See Sheet 2 of 2)

- 1) Attach offset hanger assemblies to posts at height shown. Using 5" half clamps and 3/8" x 1 1/8" BHCS w/pin and with 3/8" tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.
- 2) Attach angled panel bracket to bottom of pipe barrier 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. See Below Deck Mount.
- 3) Attach angled panel bracket with pipe barrier to offset hanger clamp assemblies using 5/8" x 2 1/4" BHCS w/pin. See Below Deck Mount.
- 4) Attach the 90° attachment brackets to pipe barrier using 5/8" x 1 1/2" BHCS w/pin. Refer To The 90° Attachment Bracket Detail.
- 5) Attach the 90° attachment brackets to the offset hanger clamps using 3/8" x 1 1/2" carriage bolts and 3/8" flange nuts w/pin. Refer To The 90° Attachment Bracket Detail.
- 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.





Parts List

Part#	Description	Qty.
127303	Trail Tracker Panel, Specify Color	1
127331	Angle, Black	1
188387	Access Clamp, Specify Color	2
105327	5" Half Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, AL/SST	2
211890	Access Panel Spacer, Specify Color	2
212999	Panel Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	4
127463	Torx Hex Bit	1
127872	#14 x 3/4" Torx Screw, SST	4
100171	3/8" x 1 1/2" BHCS w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	8

Specifications

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

Panel Spacer: Permalene®, color specified.

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

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).

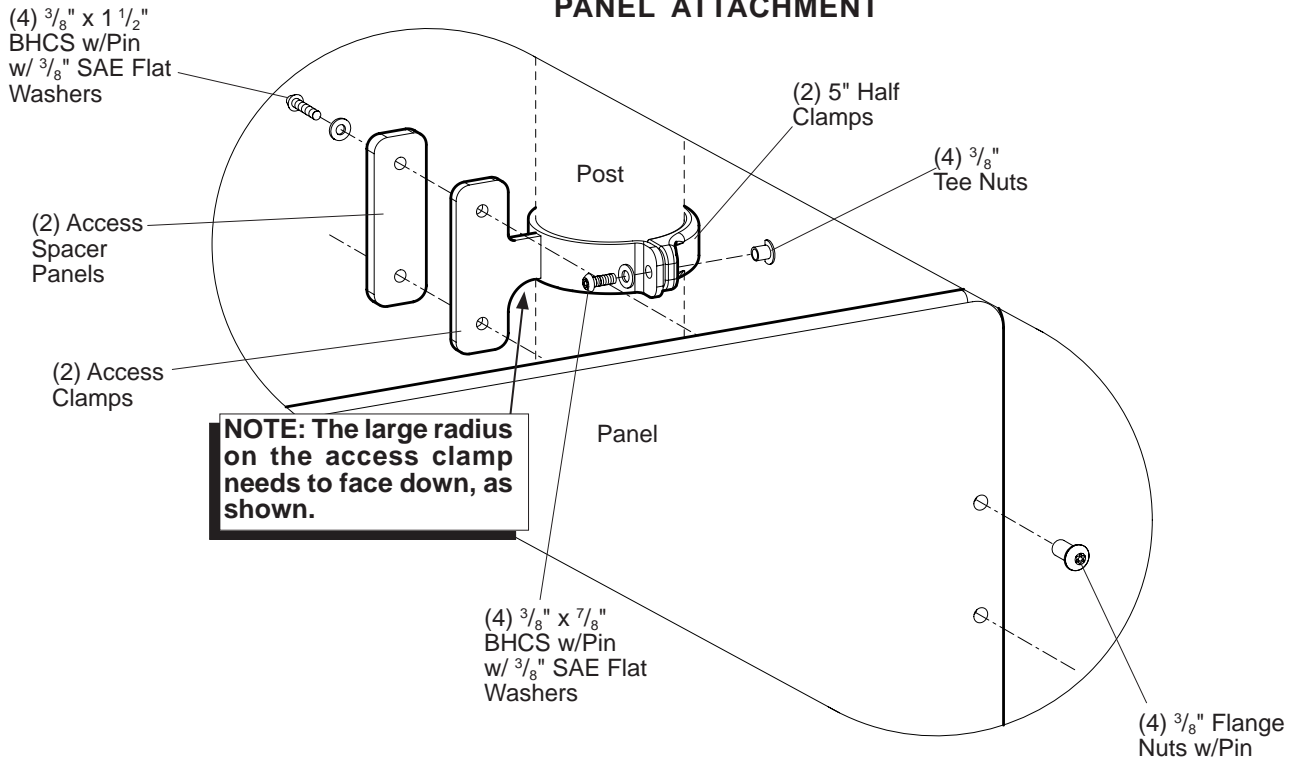
Installation Time: Approx. 1/2 man hour

Weight: 18 lbs.

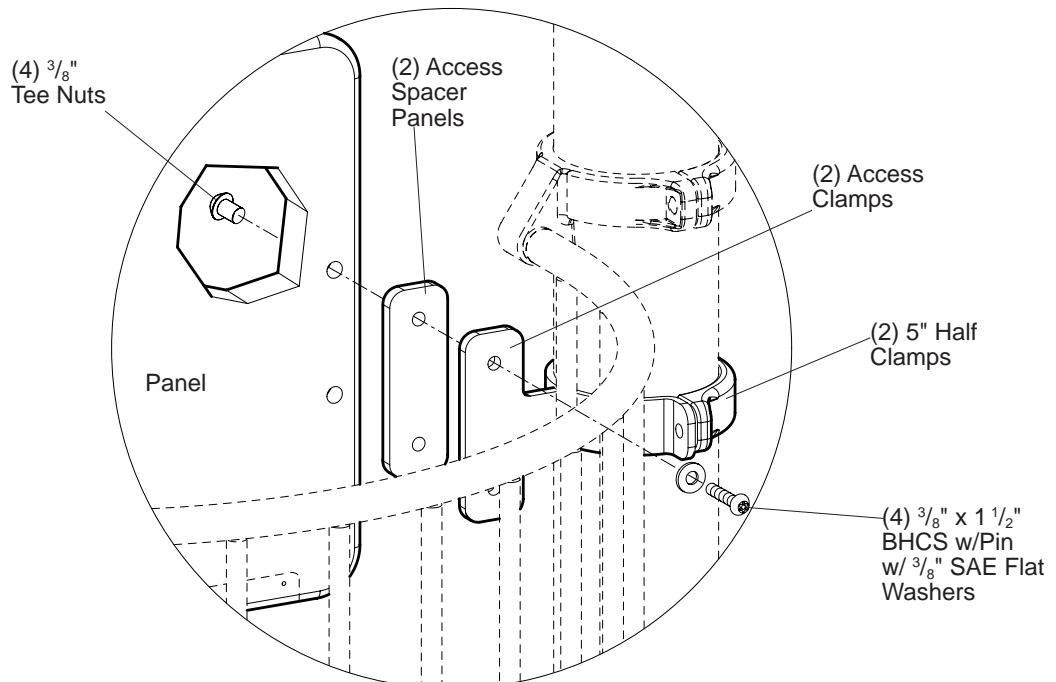
Installation Instructions

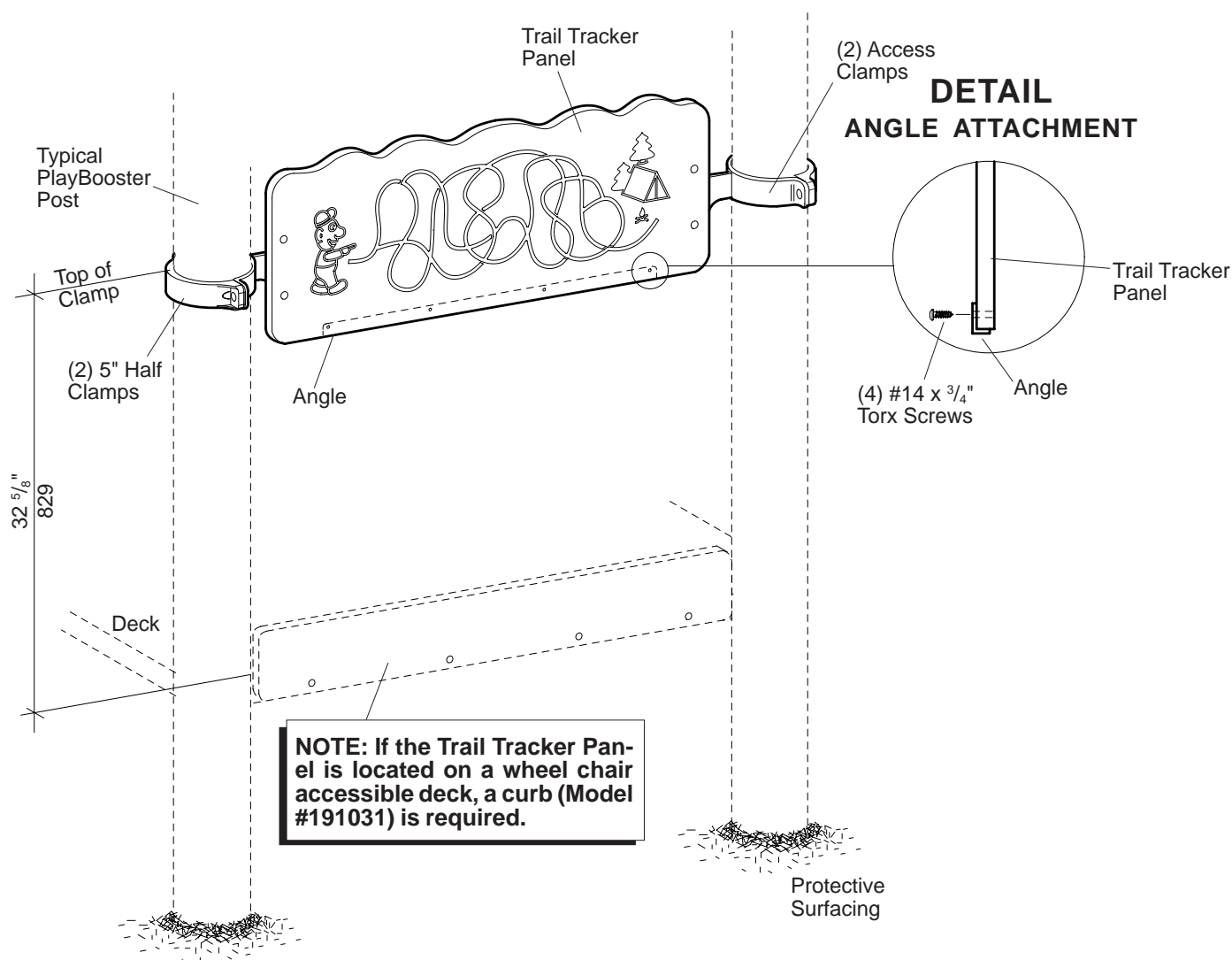
- 1) Attach the angle to the bottom of the panel using #14 x 3/4" torx screws. Refer to the Angle Attachment Detail.
- 2) Attach the access clamps to posts at the height shown, using 5" half clamps, 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" tee nuts. **NOTE:** The large radius on the access clamp needs to face down, as shown.
- 3) Attach panel and access spacer panels to access clamps, using 3/8" x 1 1/2" BHCS w/pin, with 3/8" SAE flat washers 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.

**DETAIL
PANEL ATTACHMENT**



**DETAIL
PANEL ATTACHMENT
(WITH BALCONY DECK)**

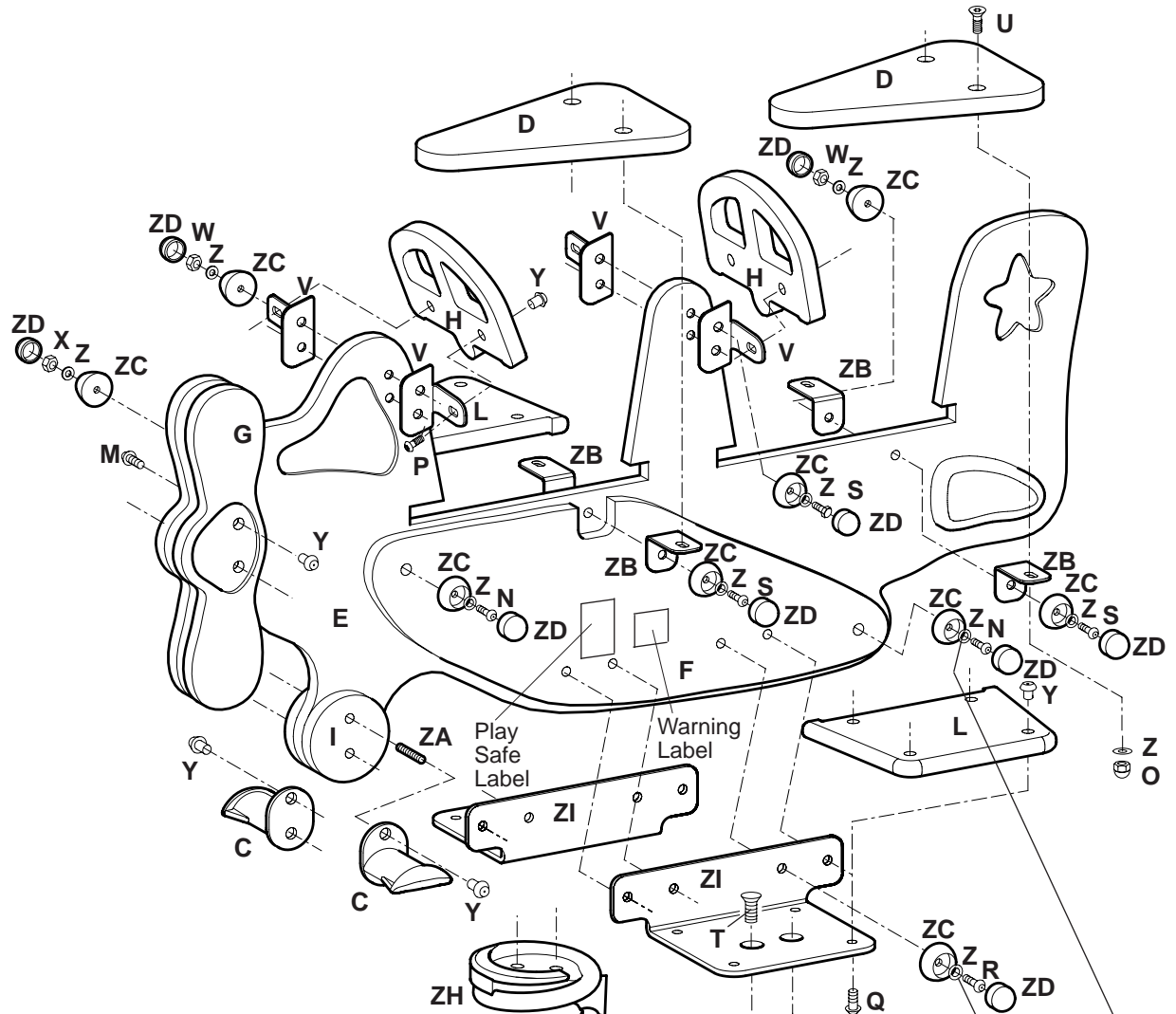




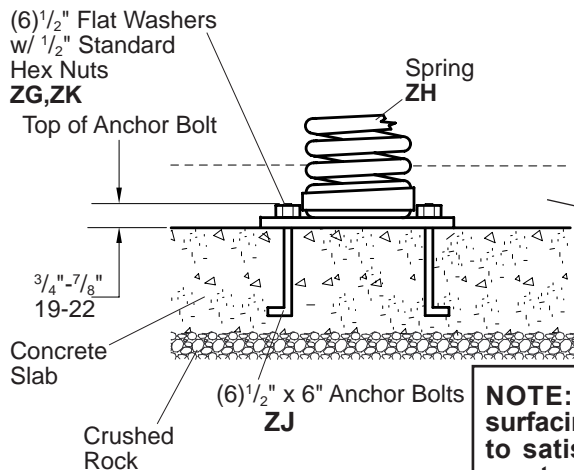
PlayBooster® **127440 Trail Tracker® Reach Panel**

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SECTION/ SURFACE MOUNTING



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

NOTE: Because of the variance in the thickness of panels, extra 3/8" flat washers may have to be installed if bolt length interferes with installation of bolt cap part B.

Kids In Motion 120871 TuffRiders® Airplane, 2-Seat

Parts List

Part#	Description	Qty.
A 120648	Spring Base Plate (SM), Brown	1
B 124129	Base Leg (DB), Brown	1
C 136479	Foot Rest, Brown	2
170331	Boxed Airplane	1
D 109459	Seat, Yellow/Black	2
E 120279	Body Panel, Blue/Black	1
F 120280	Wing, Yellow/Black	2
G 120337	Propeller, Yellow/Black	2
H 120371	Steering Wheel, Blue/Black	2
I 120420	Tire, Black	2
L 120646	Top Panel, Yellow/Black	2
221320	Airplane Hardware Package	1
M 100171	3/8" x 1 1/2" BHCS, SST	2
N 100176	3/8" x 3" BHCS, SST	2
O 100349	3/8" Low Crown Cap Nuts, SST	4
P 100195	3/8" x 5/8" BHCS w/Pin, SST	4
Q 100196	3/8" x 7/8" BHCS w/Pin, SST	8
R 100200	3/8" x 3 1/2" BHCS, SST	4
S 100209	3/8" x 1 3/4" Hex Cap Screw, SST	6
T 130824	1/2" x 2 1/4" Flat Head Cap Screw, SST	8
U 100252	3/8" x 1 1/4" Flat Head Cap Screw, SST	4
V 140917	Angle, SST	4
W 100321	3/8" Hex Patch Nut, SST	6
X 100327	3/8" Standard Hex Nut, SST	6
Y 100353	3/8" Flange Nut w/Pin, SST	18
Z 100365	3/8" SAE Flat Washer, SST	40
ZA100642	3/8" x 2 1/2" Threaded Rod, SST	2
ZB106187	Angle, SST	4
ZC108184	Bolt Cap Part A	24
ZD108185	Bolt Cap Part B	24
ZE129692	1/2" Hex Patch Nut, SST	8
ZF129693	1/2" Hex Jam Nut, SST	8
ZG100363	1/2" Flat Washer, SST	8
156846	Play Safe Label, 2-12 Yrs.	1
183064	Warning Label	1
ZH132912-00	Spring, Brown	2
ZI122347-00	Spring Top Bracket, Yellow	2
121868-00	Spring Animal Anchor Hardware Package(SM)	1
ZJ100262-00	1/2" x 6" Anchor Bolt	6
ZK100322-00	1/2" Standard Hex Nut, SST	6
ZG100363-00	1/2" Flat Washer, SST	6
DB = Direct Bury		
SM = Surface Mount		

Specifications

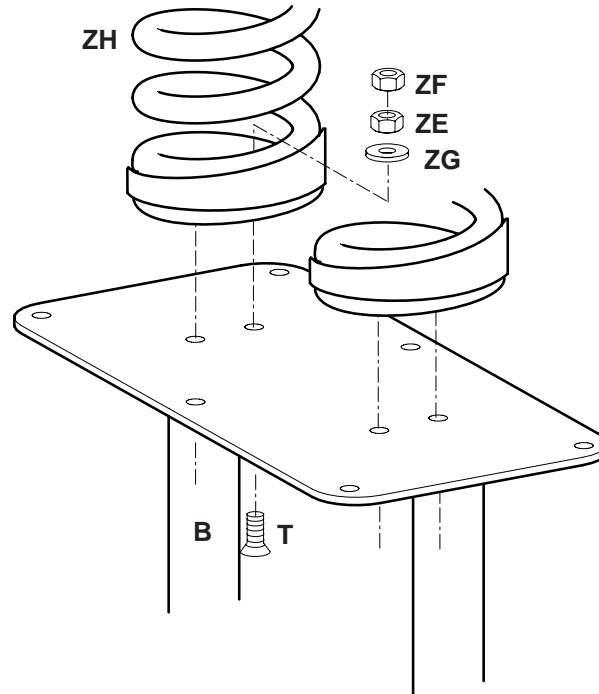
Standard Panels:	Permalene® seat, wing, and top panel yellow in color and tires black in color. Permalene body panel, steering wheel and propeller yellow/blue in color.
Recycled Panels:	Permalene seat, wing, and top panel yellow/black in color and tires black in color. Permalene body panel, steering wheel and propeller yellow/black in color.
Spring:	Weldment comprised of 5 5/8" diameter 13/16" tempered alloy steel coil. Finish: ProShield®, brown in color.
Spring Base Plate:	Fabricated from 1/4" x 10" x 20 1/2" flat steel. Finish: ProShield, brown in color.
Footrest:	Cast from 356-T6 aluminum alloy. Finish: ProShield, brown in color.
Base Leg:	Weldment comprised of 3 1/2" O.D. RS-20 (.120" - .130") galvanized steel tubing and 1/4" x 10" x 20 1/2" HRPO zinc plated steel mounting plate.
Brackets:	Fabricated from formed 7 GA (.179") HRS. Finish: ProShield, yellow in color.
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:	SM - Approx. 3 1/2 man hours DB - Approx. 3 man hours
Concrete Req.:	SM - Approx. 10 cu. ft. DB - Approx. 6 cu. ft.
Area Req.:	13'-0" x 16'-6" (3,96 m x 5,03 m) Minimum Use Zone
Weight:	SM - 132 lbs. DB - 155 lbs.
Fall Height:	24" (0,61 m)
Seat Height:	22 1/2" (0,57 m)

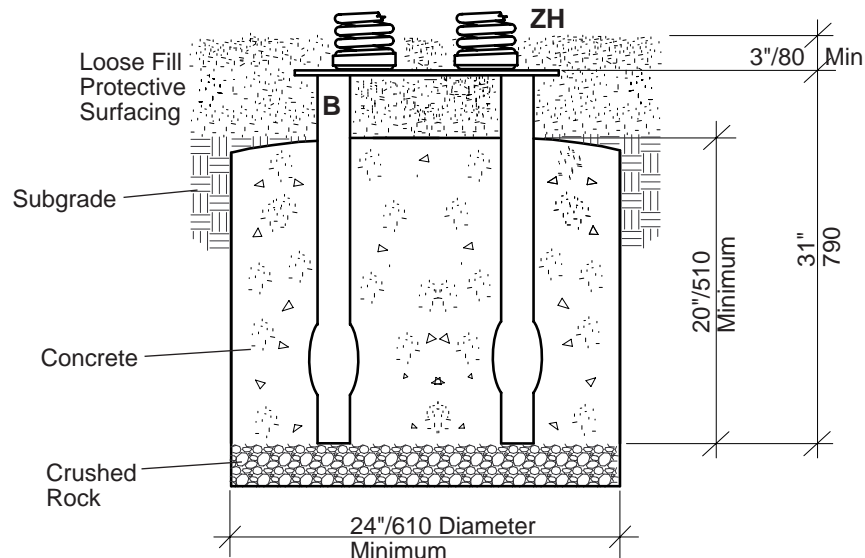
Installation Instructions

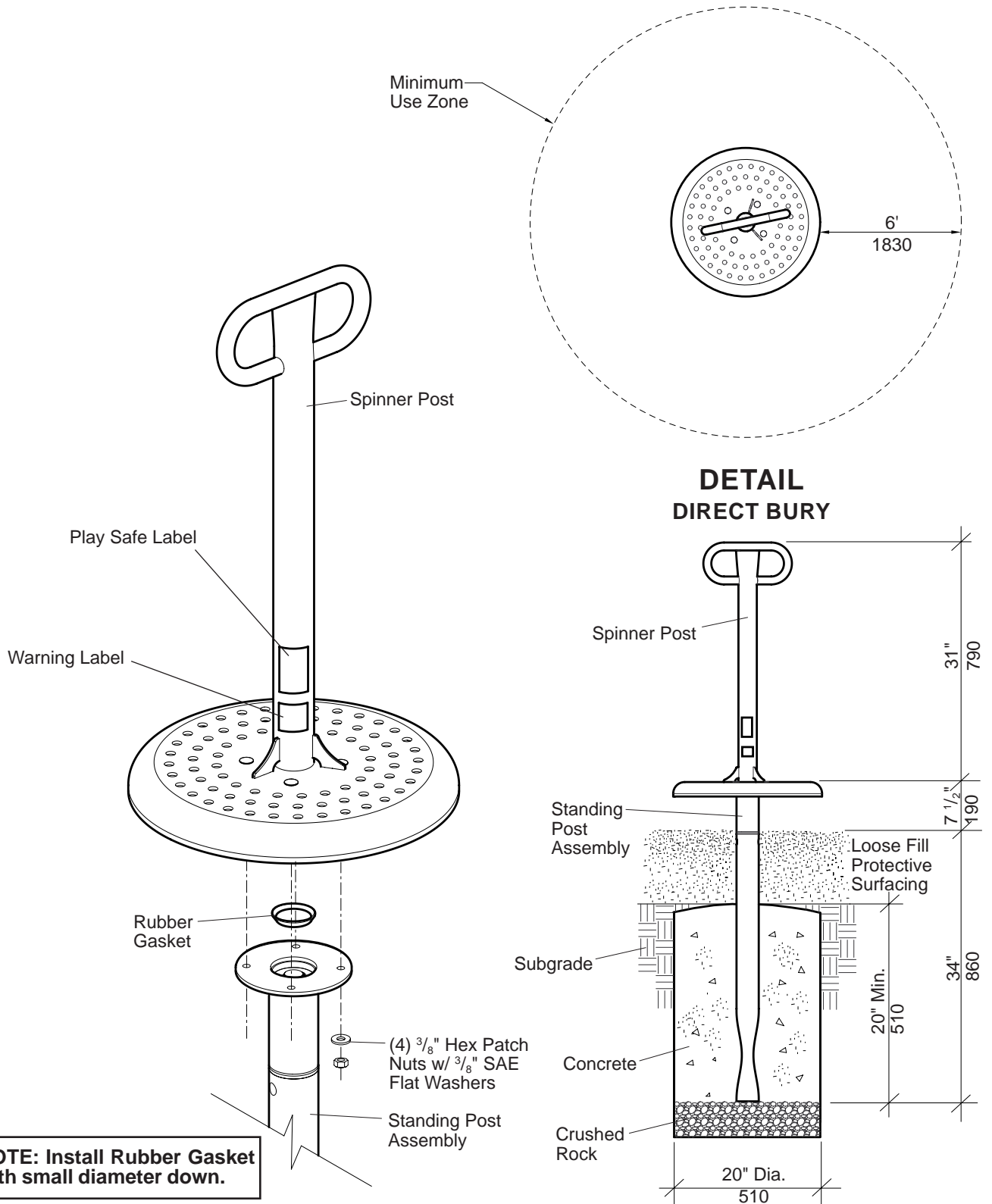
- 1) **(Direct Bury)** Dig footing hole as shown.
- 2) **(Surface Mounting On Concrete Slab)** Using the spring base plate (**A**) as a pattern, make a plywood template for anchor bolt (**ZJ**) placement.
- 3) **(Surface Mounting On Concrete Slab)** Attach 1/2" x 6" anchor bolts (**ZJ**) with 1/2" standard hex nuts (**ZK**) and 1/2" flat washers (**ZG**) to holes in template.
- 4) **(Surface Mounting On Concrete Slab)** Pour concrete slab and lay template on surface in level position. Push 1/2" x 6" anchor bolts (**ZJ**) into concrete and allow 3/4" to 7/8" of thread to protrude from concrete. Allow 72 hours before template removal.
- 5) **(Surface Mounting On Concrete Slab)** Attach springs (**ZH**) to spring base plate (**A**) using 1/2" x 2 1/4" flat head cap screws (**T**), 1/2" flat washers (**ZG**), 1/2" hex patch nuts (**ZE**) and 1/2" hex jam nuts (**ZF**).
- 6) Loosely attach spring top brackets (**ZI**) to springs (**ZH**) using 1/2" x 2 1/4" flat head cap screws (**T**), 1/2" flat washers (**ZG**), 1/2" hex patch nuts (**ZE**) and 1/2" hex jam nuts (**ZF**). Attach the body panel (**E**) and wings (**F**) to the spring top brackets (**ZI**) using bolt caps part A (**ZC**), 3/8" x 3 1/2" BHCS (**R**) with 3/8" SAE flat washers (**Z**) and bolt caps part A (**ZC**) with 3/8" standard hex nuts (**X**) with 3/8" SAE flat washers (**Z**). Final tighten spring top brackets (**ZI**) to springs (**ZH**).
- 7) Also attach wings (**F**) to the body panel (**E**) using bolt caps part A (**ZC**), 3/8" x 3" BHCS (**N**) with 3/8" SAE flat washers (**Z**) and bolt caps part A (**ZC**) with 3/8" standard hex nuts (**X**) with 3/8" SAE flat washers (**Z**).
- 8) Attach top panels (**L**) to spring top brackets (**ZI**) using 3/8" x 7/8" BHCS w/pin (**Q**) and 3/8" flange nuts w/pin (**Y**).
- 9) Attach foot rests (**C**) and tires (**I**) to the body panel (**E**) using 3/8" x 2 1/2" threaded rods (**ZA**) and 3/8" flange nuts w/pin (**Y**).
- 10) Attach the propellers (**G**) to the body panel (**E**) using 3/8" x 1 1/2" BHCS (**M**) and 3/8" flange nuts w/pin (**Y**).
- 11) Attach angles (**V**) & (**ZB**) to the body panel (**E**) using bolt caps part A (**ZC**), 3/8" x 1 3/4" hex cap screws (**S**) with 3/8" SAE flat washers (**Z**) and bolt caps part A (**ZC**) with 3/8" hex patch nuts (**W**) with 3/8" SAE flat washers (**Z**).
- 12) Attach steering wheels (**H**) to angles (**V**) using 3/8" x 5/8" BHCS w/pin (**P**) and 3/8" flange nuts w/pin (**Y**).
- 13) Attach the seats (**D**) to the angles (**ZB**) using 3/8" x 1 1/4" flat head cap screws (**U**) and 3/8" low crown cap nuts (**O**) with 3/8" SAE flat washers (**Z**).
- 14) Snap on bolt caps part B (**ZD**) to bolt caps part A (**ZC**) by hand or with rubber mallet.
- 15) **(Direct Bury)** Attach springs (**ZH**) to base leg (**B**) using 1/2" x 2 1/4" flat head cap screws (**T**), 1/2" flat washers (**ZG**), 1/2" hex patch nuts (**ZE**) and 1/2" hex jam nuts (**ZF**).
- 16) **(Direct Bury)** With base legs plumb and spring rider propped up, pour concrete footing and let cure for 72 hours before using.
- 17) Apply labels as shown,
- 18) Install protective surfacing before users are allowed to play on the component. **(Direct Bury)** A minimum of 4" of protective surfacing should cover base plate and anchor bolts. **(Surface Mounting On Concrete Slab)** A minimum of 1 1/2" of protective surfacing should cover base plate and anchor bolts.

DETAIL
DIRECT BURY
BASE LEG ATTACHMENT



DETAIL
DIRECT BURY





Kids In
Motion

155077 Stand-Up Spinner

Parts List

Part#	Description	Qty.
154932	Spinner Post, Specify Color	1
197022	Standing Post Assembly, Specify Color	1
183882	Stand-up Spinner Hardware Package	1
100321	$\frac{3}{8}$ " Hex Patch Nut, SST.....	4
100365	$\frac{3}{8}$ " SAE Flat Washer, SST.....	4
156847	Play Safe Label, 5-12 Years.....	1
127935	Rubber Gasket	1
183064	Warning label.....	1

Specifications

Spinner Post: Weldment comprised of 2.375" O.D. RS20 (.095" - .105") galvanized steel tubing, 1.029" O.D. RS20 (.070"-.080") galvanized steel tubing, 7 GA. (.179") HRPO flat steel, and 7 GA. (.179") HR flat steel. Finish: TenderTuff®, color specified.

Standing Post Assy: (Spinner Post) Weldment comprised of 2.875" O.D. RS40 (.160"-.170" wall) galvanized steel tubing, 1.250" O.D. steel shaft, 12 Ga. (.105") HR flat steel, and 1144 steel collar. Finish: ProShield, color specified. **(Sleeve/Plate)** Weldment comprised of $\frac{1}{4}$ " sheet HRPO steel and 2.875" O.D. schedule 80 steel tubing. Finish: ProShield®, color specified.

Rubber Gasket: Made from 50 durometer neoprene.

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.: Approx. 3.5 cu. ft.

Area Req.: 14' (4.27 m) diameter

Min. Use Zone: 6' (1.82 m) minimum use zone

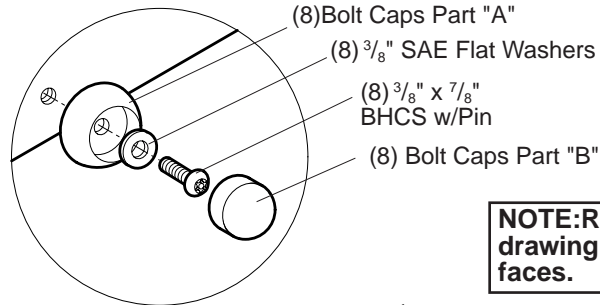
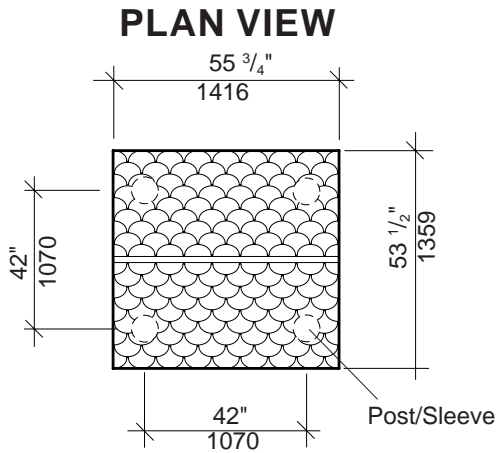
Weight: 60 lbs.

Fall Height: 8" (200 mm)

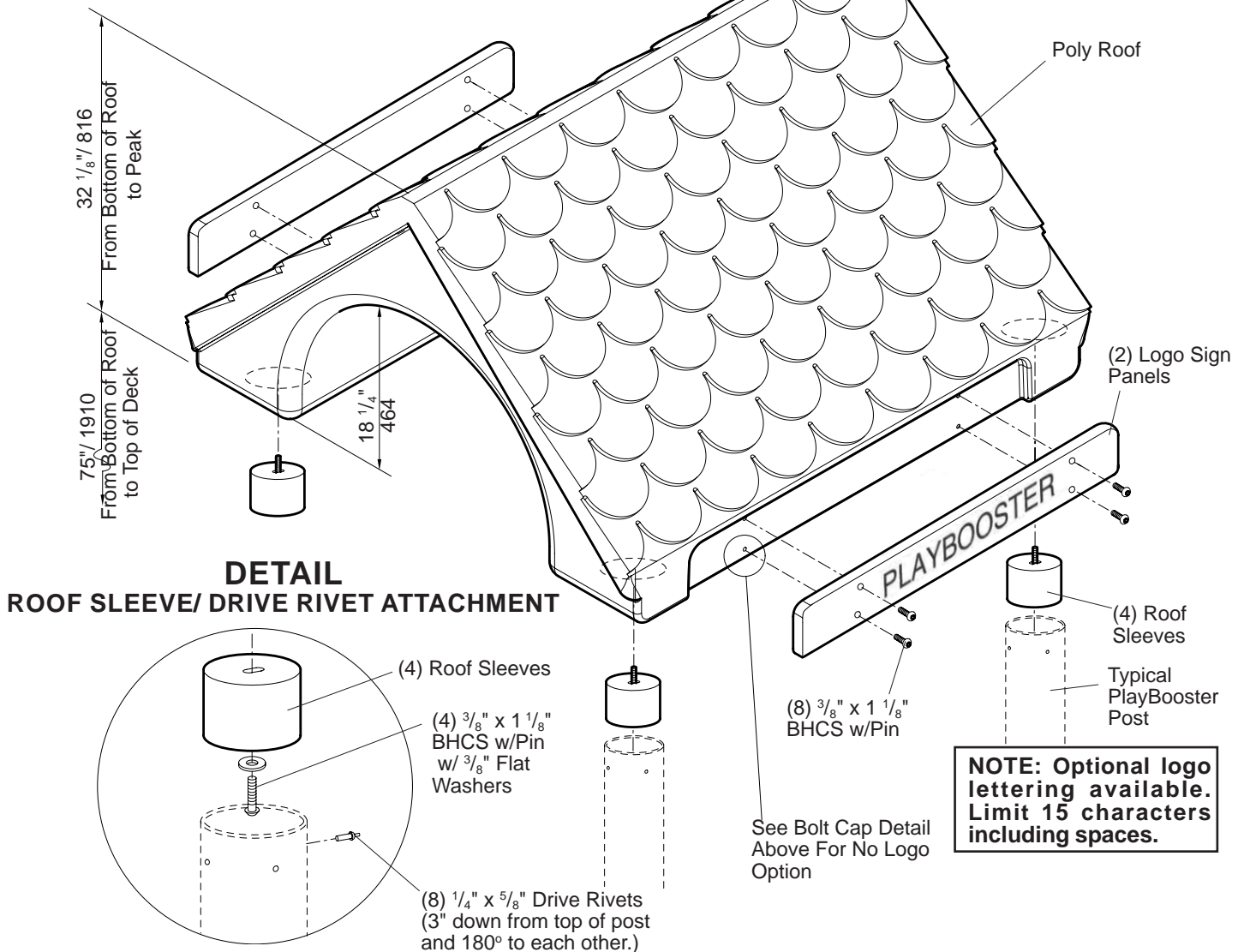
Installation Instructions

- 1) Dig footing as shown. Refer to the Direct Bury Detail.
- 2) Attach spinner post and rubber gasket to standing post assembly using $\frac{3}{8}$ " hex patch nuts with $\frac{3}{8}$ " SAE flat washers, as shown. **NOTE:** *Install Rubber Gasket with small diameter down.*
- 3) Position spinner in footing hole and pour concrete footing. With spinner post plumb, prop to hold in position. Allow concrete to cure a minimum of 72 hours before users are allowed to play on the structure.
- 4) Apply labels as shown.
- 5) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
BOLT CAP ASSEMBLY
(FOR NO LOGO PANEL OPTION)**



NOTE: Refer to your plan drawing for direction roof faces.



PlayBooster®

118110 Square Poly Roof

Parts List

Part#	Description	Qty.
127765	Poly Roof, Specify Color	1
127800	Roof Logo, Specify Color	2
116573	Roof Sleeve	4
135428	Roof Hardware Package	1
100196	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	8
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	4
100362	$\frac{3}{8}$ " Flat Washer, SST	4
100365	$\frac{3}{8}$ " SAE Flat Washer, SST	8
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	8
108184	Bolt Cap Part A	8
108185	Bolt Cap Part B	8
135427	Roof/Logo Hardware Package	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	12
100362	$\frac{3}{8}$ " Flat Washer, SST	4
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	8

Specifications

Poly Roof: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

Roof Logo: Two color Permalene® roof logo measures 41" wide x 5 $\frac{1}{8}$ " high, color specified.

Roof Sleeve: Cast from 319 almag.

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

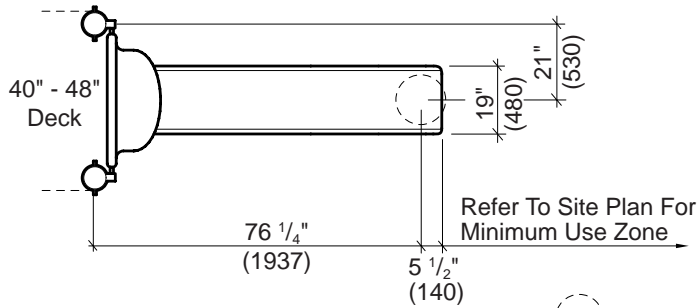
Weight: w/Logo - 116 lbs.
w/o Logo - 105 lbs.

Installation Instructions

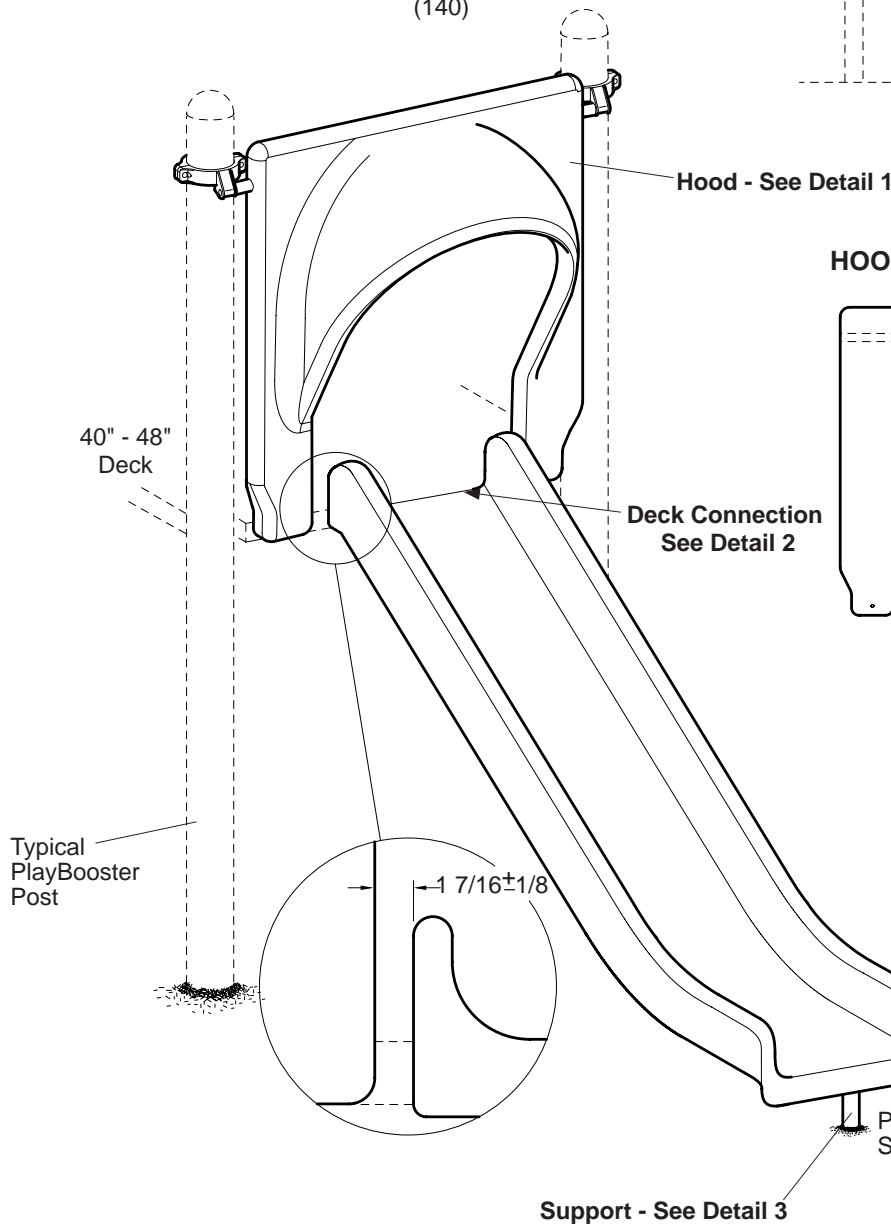
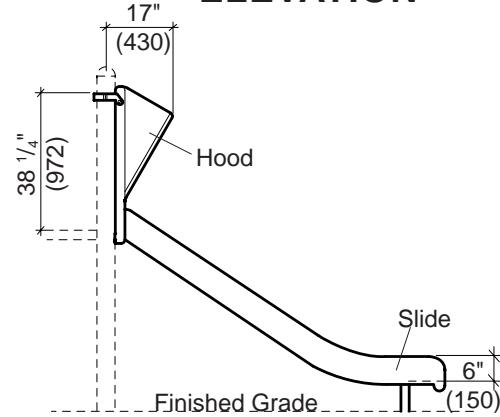
- 1) Attach roof sleeves to roof using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flat washers. Refer to the Roof Sleeve/Drive Rivet Attachment Detail.
- 2) **(With Roof Logo)** Attach roof logo to roof using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin, as shown.

(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 $\frac{5}{8}$ " drive rivets into drilled holes and tap pin in until it is 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.

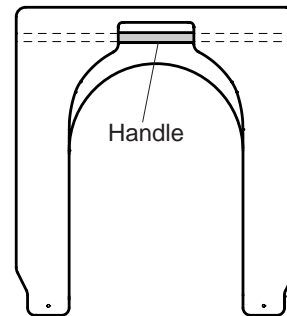
PLAN VIEW/ FOOTING LAYOUT



ELEVATION



HOOD - HANDLE DETAIL



Parts List

Part#	Description	Qty.
127162	Single Slide, Specify Color	1
150941	Support, (DB), Specify Color.....	1
151033	Support, 40" Deck (SM), Specify Color.....	1
151003	Support, 48" Deck (SM), Specify Color.....	1
134180	Single Slide Hood, Specify Color	1
100583	40 7/16" Rail, Specify Color	1
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
132443	Spacer Tube, Specify Color.....	2
111506	Slide Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST.....	2
100362	3/8" Flat Washer, SST.....	4
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread Bolt, SST	2
100365	3/8" SAE Flat washer, SST.....	2
111442	Rubber Bushing.....	2
106578	Hood Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST.....	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST.....	4
100203	5/8" x 2 1/4" BHCS w/Pin, SST.....	2
100351	3/8" Tee Nut, SST.....	4
100362	3/8" Flat Washer, SST.....	2
100610	1/4" x 5/8" Drive Rivet, AL/SST.....	2
111392	2-Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor.....	2
100322	1/2" Standard Hex Nut, SST.....	2
100363	1/2" Flat Washer, SST.....	2

DB = Direct Bury

SM = Surface Mount

Specifications

Slide: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

Exit 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.

Spacer Tube: Fabricated from 1.3125 O.D. x 16 Ga. (.065) steel tubing. Finish: ProShield, color specified.

Hood: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

Rail: Extruded from 1.125" O.D. x .312" W. 6005-T5 aluminum. 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. 2 man hours

Concrete Req.: Approx. 1.3 cu. ft.

Area Req.: Refer To Plan View

Weight: 93 lbs.

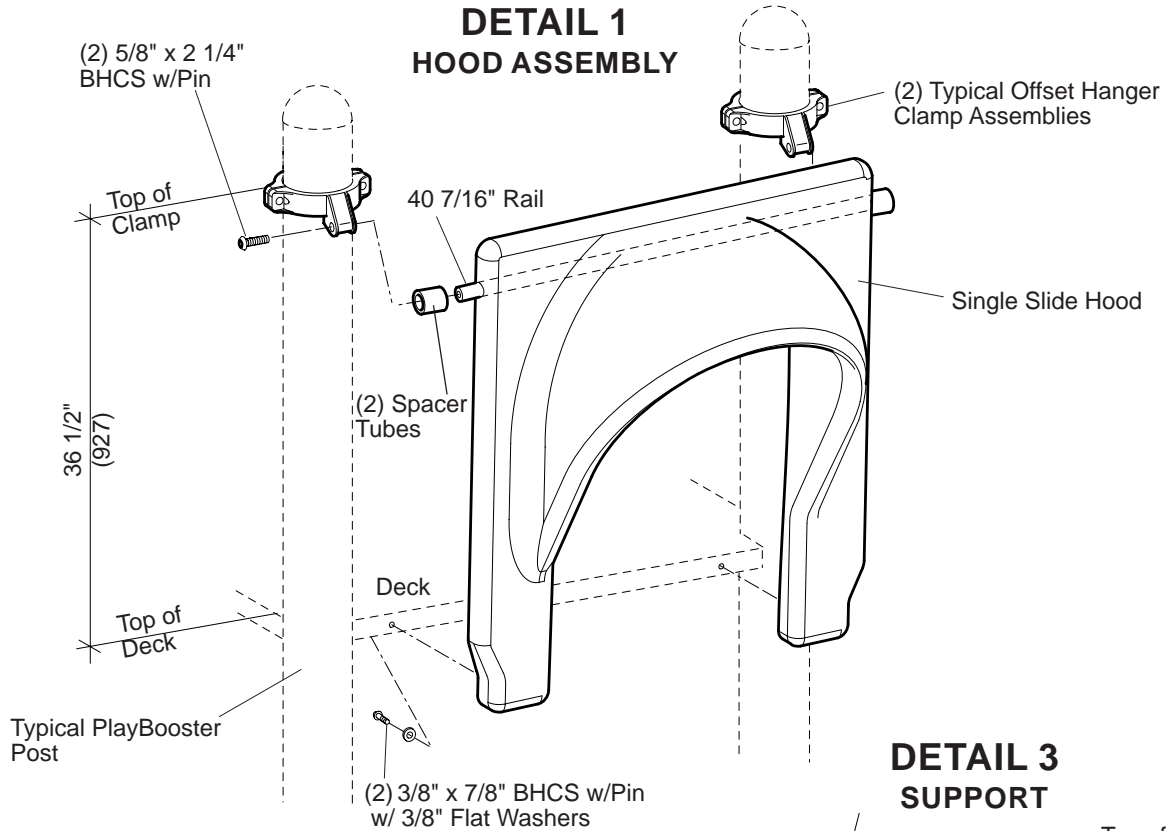
Fall Height: Deck Height

Installation Instructions

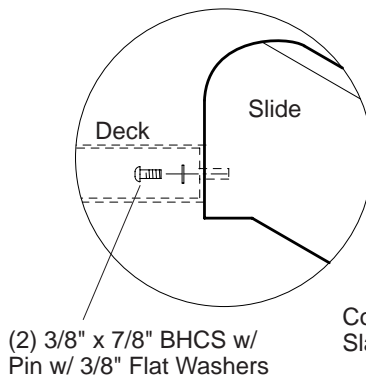
- 1) **(Direct Bury)** Dig footings spaced as shown.
- 2) Insert 40 7/16" rail through top of hood, place spacer tubes over each end of the 40 7/16" rail. Attach offset hanger clamps to ends of pipe bolt using 5/8" x 2 1/4" BHCS w/Pin. Position hood against face of deck with offset hanger clamps against posts. Line up holes in face of deck with inserts in bottom of hood and fasten using 3/8" x 7/8" BHCS w/Pin with 3/8" flat washers. Refer to Detail 1. Attach offset hanger clamps to posts using 5" half clamps with 3/8" x 1 1/8" BHCS w/Pin and 3/8" tee nuts.
- 3) Attach support to base of slide using 3/8" x 1 1/4" BHCS w/Pin limited thread bolt, 3/8" SAE flat washer, rubber bushing and 3/8" flat washer.
NOTE: Attach bolts in the center of the slots to allow for expansion and contraction. Snug bolts down only, do not over-tighten. Refer to Detail 3.
- 4) Attach slide to the face of the deck using 3/8" x 7/8" BHCS w/Pin with 3/8" flat washers. Refer to Detail 2.
- 5) **(Direct Bury)** With support plumb pour concrete footings. Allow concrete footing 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 4. Fasten support to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.
- 6) Install protective surfacing before users are allowed to play on the structure.

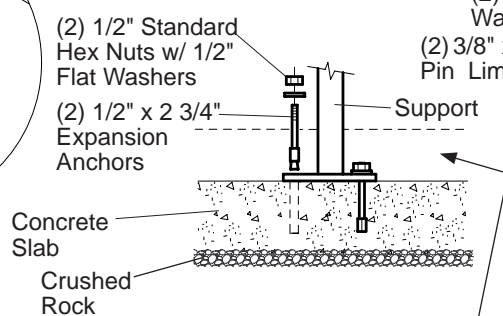
DETAIL 1 HOOD ASSEMBLY



DETAIL 2 DECK CONNECTION

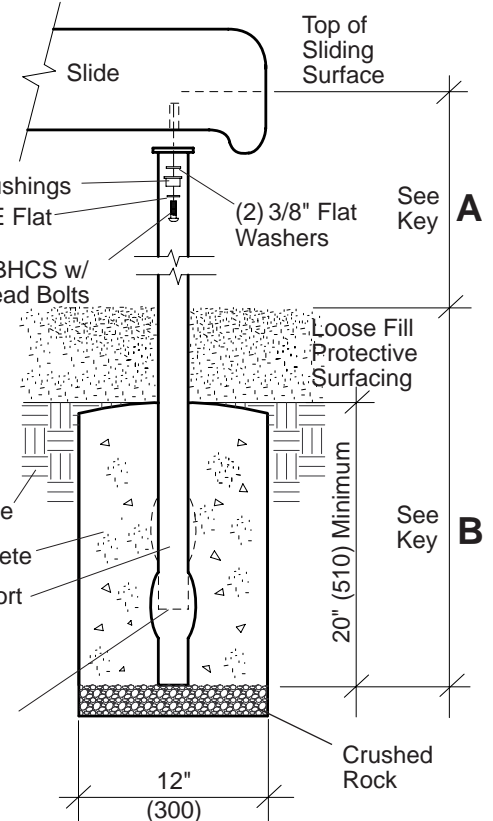


DETAIL SURFACE MOUNT



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

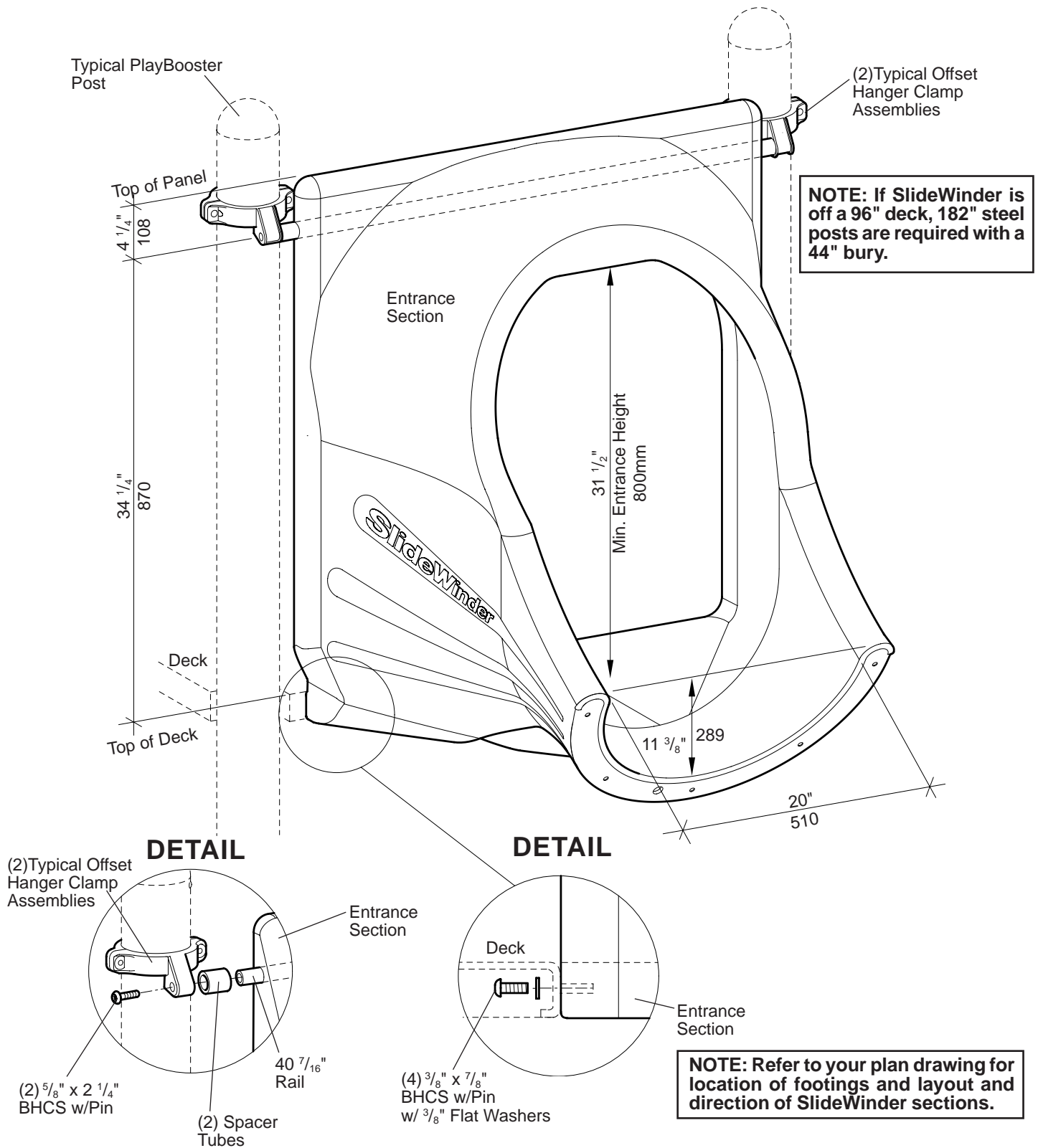
DETAIL 3 SUPPORT



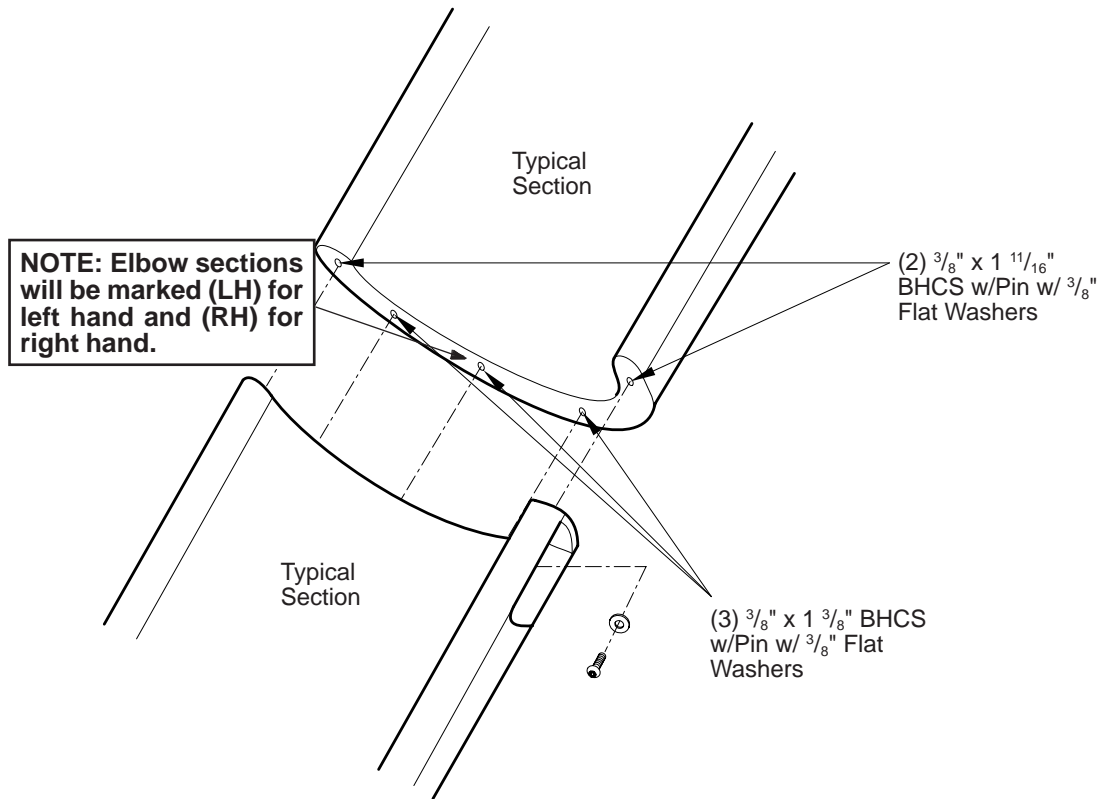
KEY:	
Deck Hgt.	Dimension
40"	A = 8" (200)
48"	A = 11" (280)
40"	B = 37" (940)
48"	B = 34" (860)

Bottom Of Support When Attaching Slide To A 48" Deck

ENTRANCE SECTION ATTACHMENT

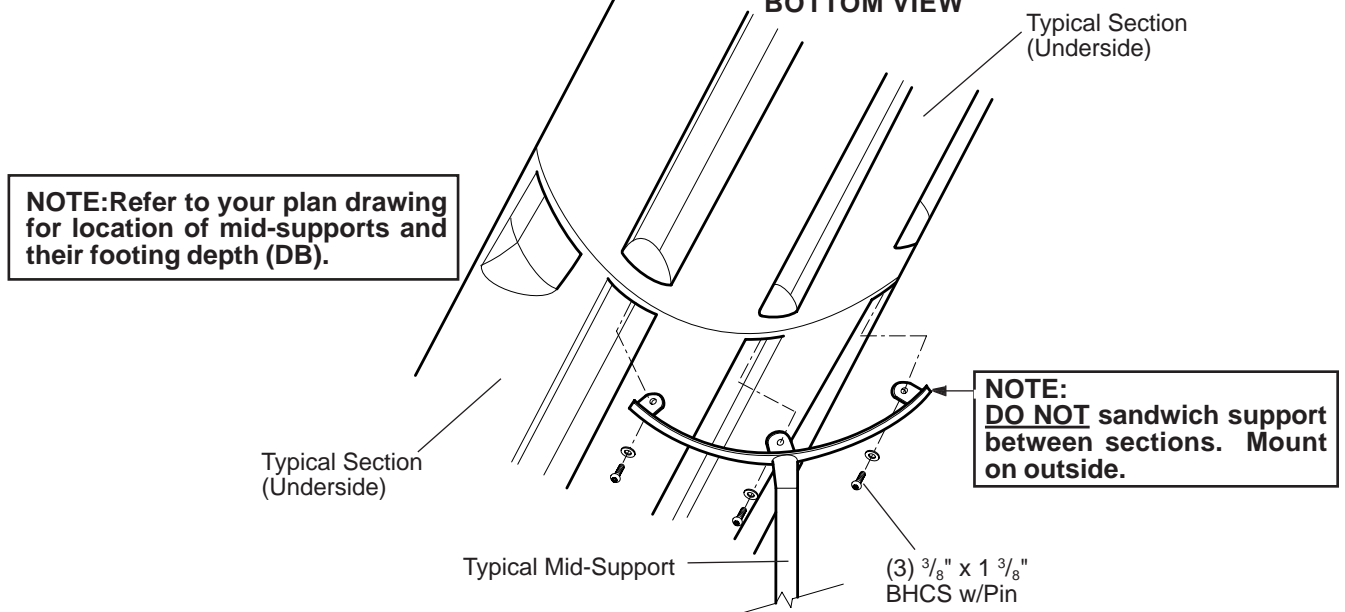


DETAIL TYPICAL SLIDE SECTION

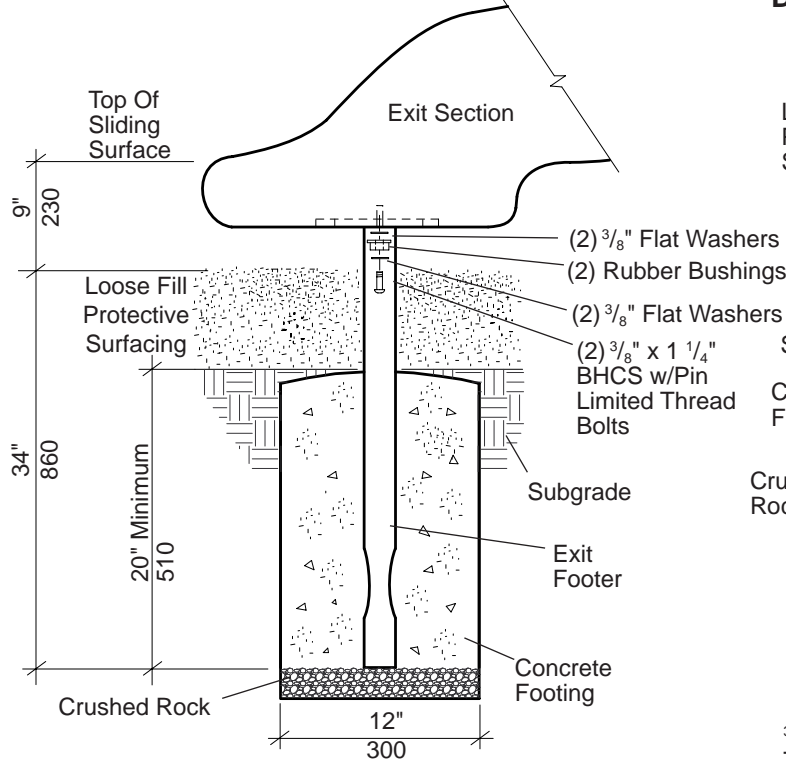


NOTE: Fasten top of slide section with pockets to bottom of slide section without pockets.

DETAIL TYPICAL MID-SUPPORT (48"- 96" SLIDES ONLY) BOTTOM VIEW

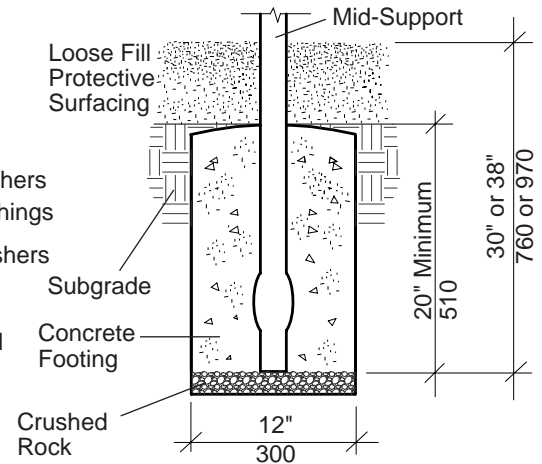


**DETAIL
DIRECT BURY / EXIT SECTION**

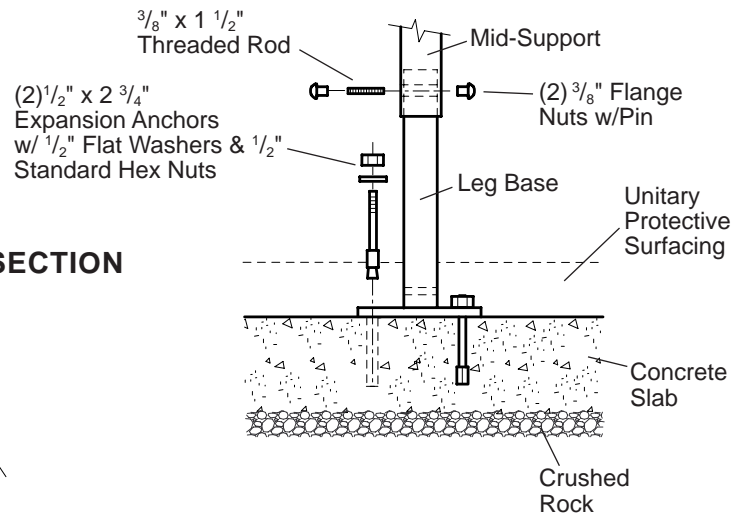


NOTE: Attach bolts in the center of the footer slots to allow for expansion and contraction. Snug bolts down only, do not overtighten!

**DETAIL
DIRECT BURY / MID-SUPPORTS**

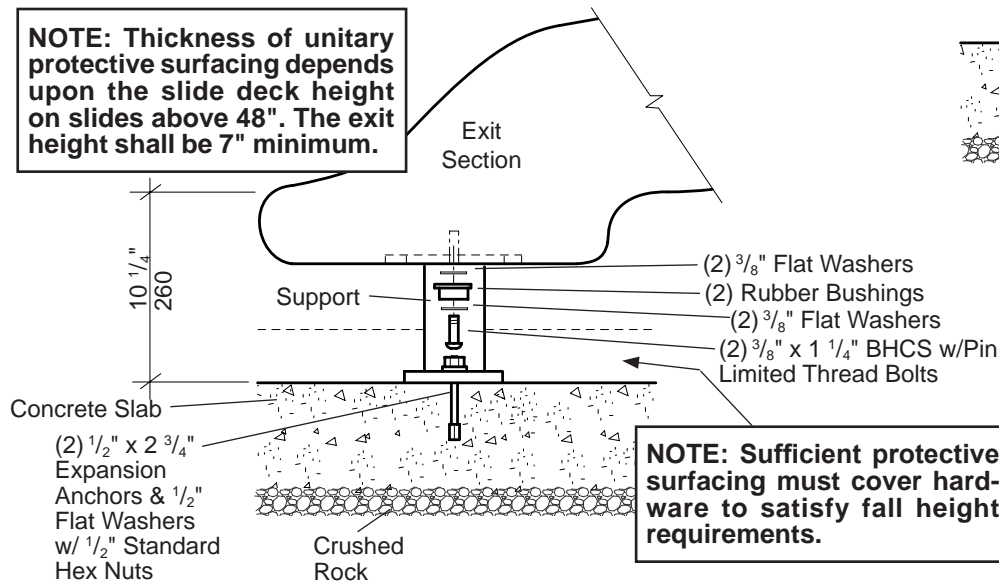


**DETAIL
SURFACE MOUNT / MID-SUPPORTS**



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.

**DETAIL
SURFACE MOUNT / EXIT SECTION**



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

Parts List

Part#	Description	Qty.
124867	Right Elbow Section, Specify Color	*
124868	Left Elbow Section, Specify Color	*
125655	Straight Section (15 1/4" Long), Specify Color	*
124864	Straight Section (30 1/2" Long), Specify Color	*
100583	40 7/16" Rail, Specify Color	1
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, AL/SST	2
125562	Support Base (SM), Specify Color	*
128434	66" Mid-Support (DB), Specify Color	*
128077	82" Mid-Support (DB), Specify Color	*
128078	106" Mid-Support (DB), Specify Color	*
128079	20 3/4" Mid-Support (SM), Specify Color	*
128080	29" Mid-Support (SM), Specify Color	*
128081	37 1/8" Mid-Support (SM), Specify Color	*
128082	45 1/4" Mid-Support (SM), Specify Color	*
128261	Exit Footer (DB), Specify Color	1
128262	Exit Footer (SM), Specify Color	1
124876	Entrance Section, Specify Color	1
124877	Exit Section, Specify Color	1
132443	Spacer Tube, Specify Color	2
121371	Entrance/Deck Mounting Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100362	3/8" Flat Washer, SST	4
154942	SlideWinder Section Hardware Package	*
100362	3/8" Flat Washer, SST	*
113027	3/8" x 1 3/8" BHCS w/Pin, SST	*
123224	3/8" x 1 11/16" BHCS w/Pin, SST	*
124342	Rail Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100203	5/8" x 2 1/4" BHCS w/Pin, SST	2
100351	3/4" Tee Nut, SST	4
125670	Mid-Support Hardware Package (SM)	*
100266	1/2" x 2 3/4" Expansion Anchor	*
100322	1/2" Standard Hex Nut, SST	*
100353	3/8" Flange Nut w/Pin, SST	*
100363	1/2" Flat Washer, SST	*
115813	3/8" x 1 1/2" Threaded Rod, SST	*
128373	Exit Support Hardware Package (DB)	1
100292	3/8" x 1 1/4" BHCS w/Pin Limited Thread Bolt, SST	2
100362	3/8" Flat Washer, SST	4
111442	Rubber Bushing	2
128343	Exit Support Hardware Package (SM)	1
100266	1/2" x 2 3/4" Expansion Anchor	2
100292	3/8" x 1 1/4" BHCS w/Pin Limited Thread Bolt, SST	2
100322	1/2" Standard Hex Nut, SST	2
100362	3/8" Flat Washer, SST	4
100363	1/2" Flat Washer, SST	2
111442	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.
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.
Spacer Tube:	Fabricated from 1.3125 O.D. x 16 Ga. (.065) steel tubing. 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.
Offset Hanger Clamp Assy.:	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: 32" - 48" Approx. 3 man hours
56" - 72" Approx. 4 man hours
96" Approx. 5 man hours

Concrete Req.: 30" Depth - Approx. 1.3 cu. ft.
34" Depth - Approx. 1.5 cu. ft.
38" Depth - Approx. 1.8 cu. ft.

Weight: 32" - 134 lbs.
40" - 146 lbs.
48" - 172 lbs.
56" - 184 lbs.
64" - 197 lbs.
72" - 247 lbs.
96" - 265 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 holes spaced as shown, depending upon slide. Refer to the Direct Bury Exit Section and Direct Bury Mid-Support Details.
- 3) Place 40 7/16" rail in entrance section, place spacer tubes over each end of the 40 7/16" rail, attach offset hanger clamps 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-supports, 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-supports, 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 hanger clamps to posts 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.

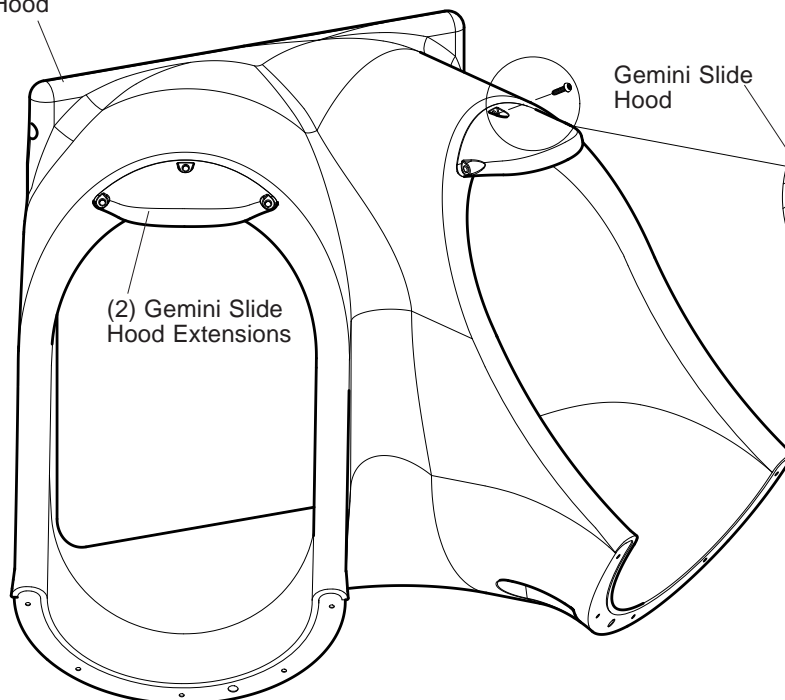
- 9) **(Direct Bury)** With supports plumb pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.

(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
GEMINI SLIDE HOOD EXTENSION
ATTACHMENT**

Gemini Slide Hood



(2) Gemini Slide Hood Extensions

Gemini Slide Hood

DETAIL

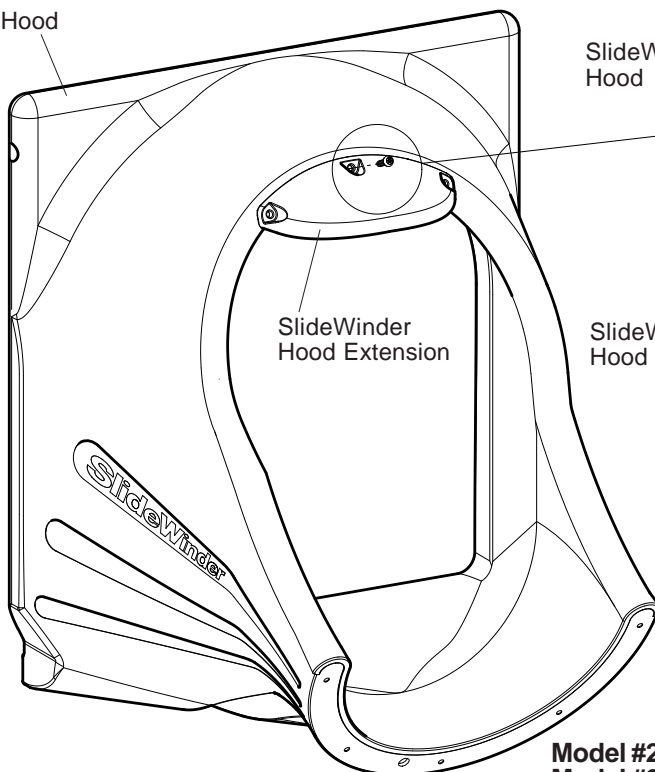
(6) $\frac{3}{8}$ " x $1\frac{1}{2}$ " BH Lag Screws

(2) Gemini Slide Hood Extensions

NOTE: Place hood extension against slide hood as shown. Using hood extension as a template, mark hole locations. Remove hood extension, and drill $\frac{1}{4}$ " pilot holes into slide hood. Attach hood extension to slide hood, using $\frac{3}{8}$ " x $1\frac{1}{2}$ " BH lag screws.

**DETAIL
SLIDEWINDER HOOD EXTENSION
ATTACHMENT**

SlideWinder Hood



SlideWinder Hood Extension

DETAIL

SlideWinder Hood

(3) $\frac{3}{8}$ " x $1\frac{1}{2}$ " BH Lag Screws

SlideWinder Hood Extension

NOTE: Place hood extension against slide hood as shown. Using hood extension as a template, mark hole locations. Remove hood extension, and drill $\frac{1}{4}$ " pilot holes into slide hood. Attach hood extension to slide hood, using $\frac{3}{8}$ " x $1\frac{1}{2}$ " BH lag screws.

Model #205015 Gemini Slide Hood Extension
Model #205013 SlideWinder Slide Hood Extension



PlayBooster® SlideWinder/Gemini Hood Extension

Parts List

Part#	Description	Qty.
205010	Gemini Slide Hood Extension, Specify Color	2
205009	SlideWinder Hood Extension, Specify Color	1
205012	Hood Extension Hardware Package	*
168198	$\frac{3}{8}$ " x 1 $\frac{1}{2}$ " BH Lag Screw, SST	3

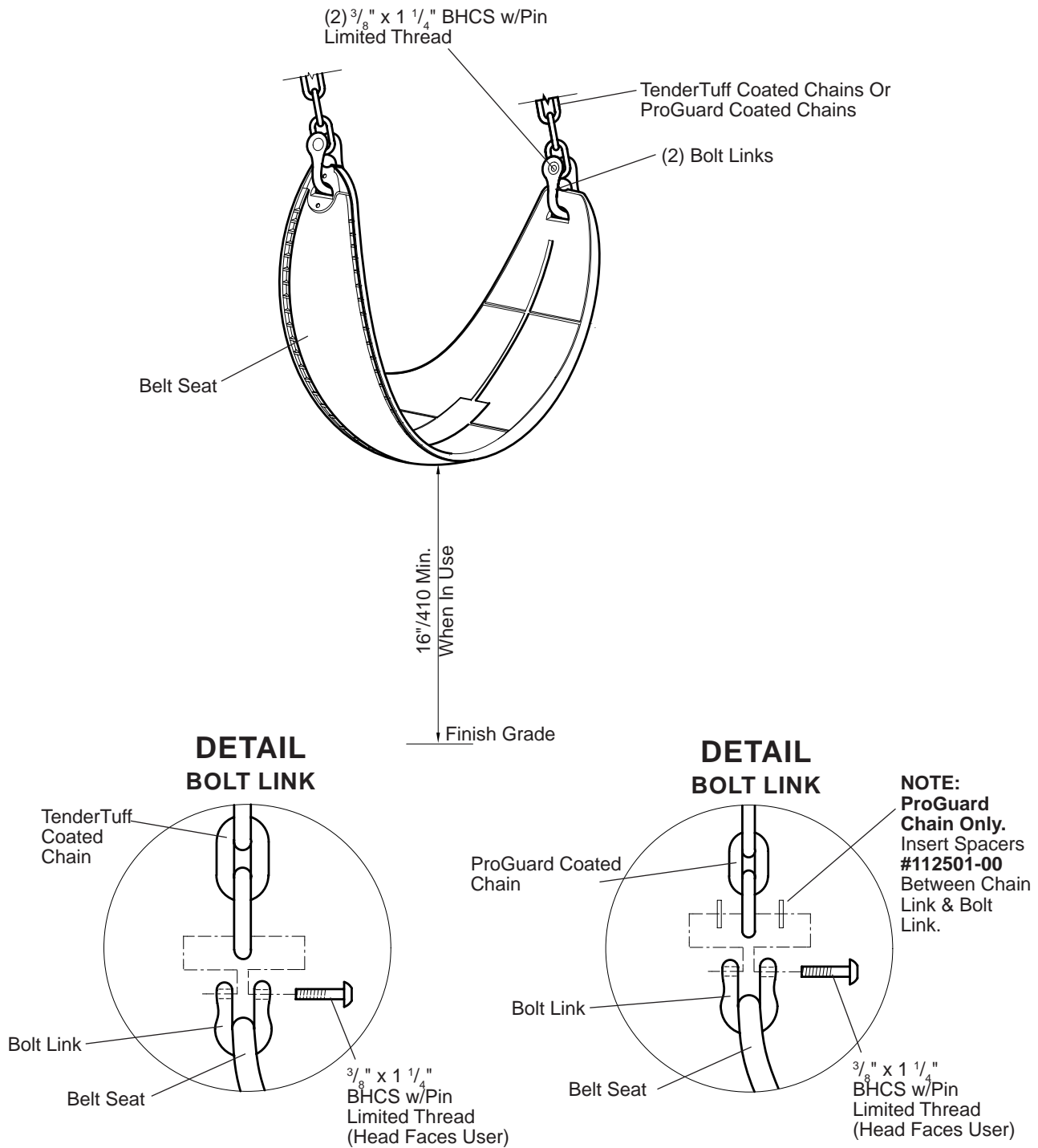
* = Quantity Based On Slide Type

Specifications

Hood Extension:	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:	$\frac{1}{4}$ man hour
Weight:	16 lbs. Gemini Slide 8 lbs. SlideWinder

Installation Instructions

- 1) Place hood extension against slide hood as shown. Using hood extension as a template, mark hole locations. Remove hood extension, and drill $\frac{1}{4}$ " pilot holes into slide hood. Attach hood extension to slide hood, using $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " BH lag screws.



Swings

174018 Belt Seat

Sheet 1 of 2

Parts List

Part #	Description	Qty.
7 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
178679	57 7/16" Chain, TenderTuff, Specify Color.....	2
175251	57 7/16" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
8 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
152050	67 7/8" Chain, TenderTuff, Specify Color	2
174404	67 7/8" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
10 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
152052	90 11/16" Chain, TenderTuff, Specify Color.....	2
174884	90 11/16" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	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. (7 Ft. Beam w/ProGuard Chains)
9 lbs. (7 Ft. Beam w/TenderTuff Chains)
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

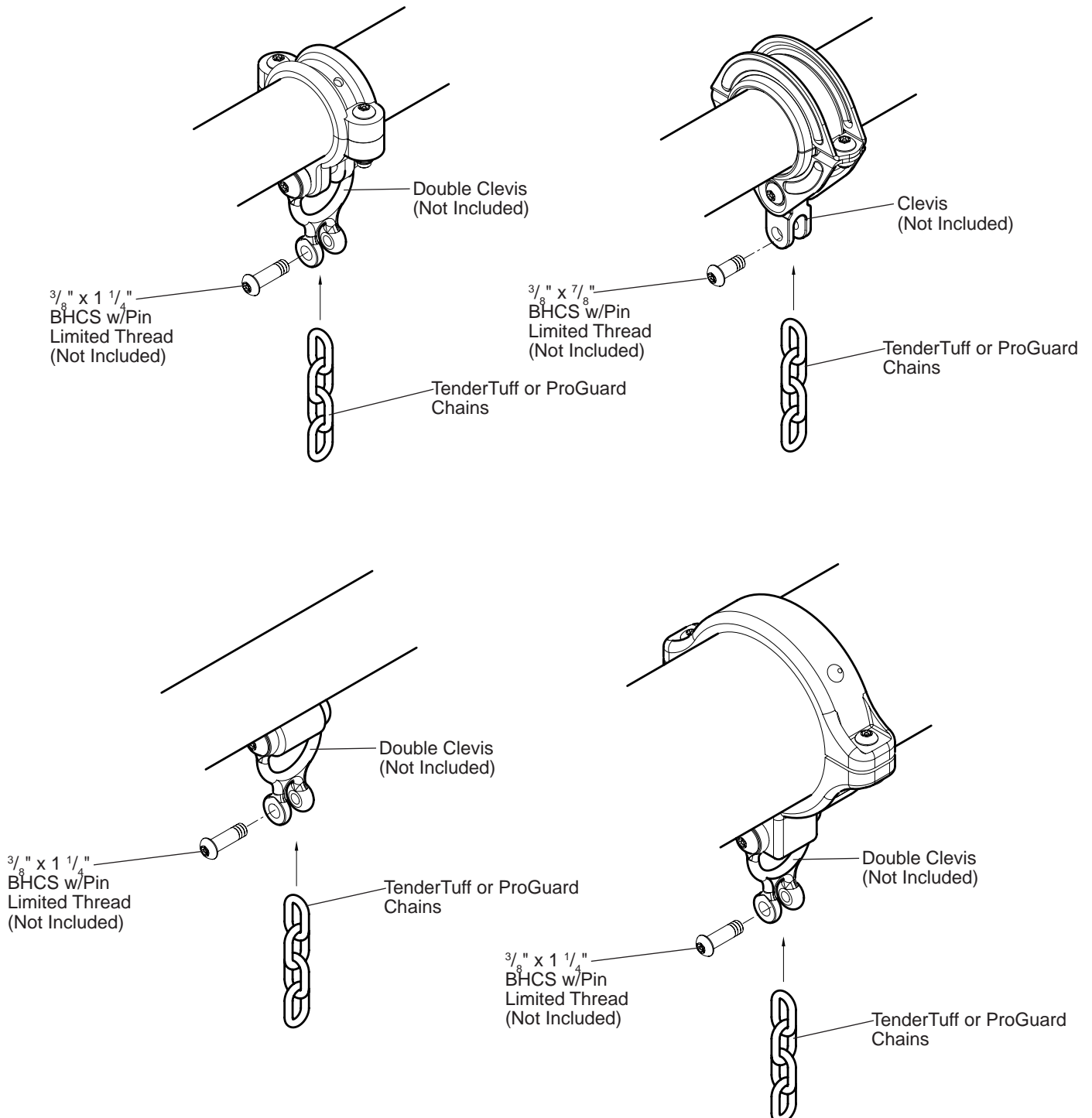
Swing Hangers With Double Clevis

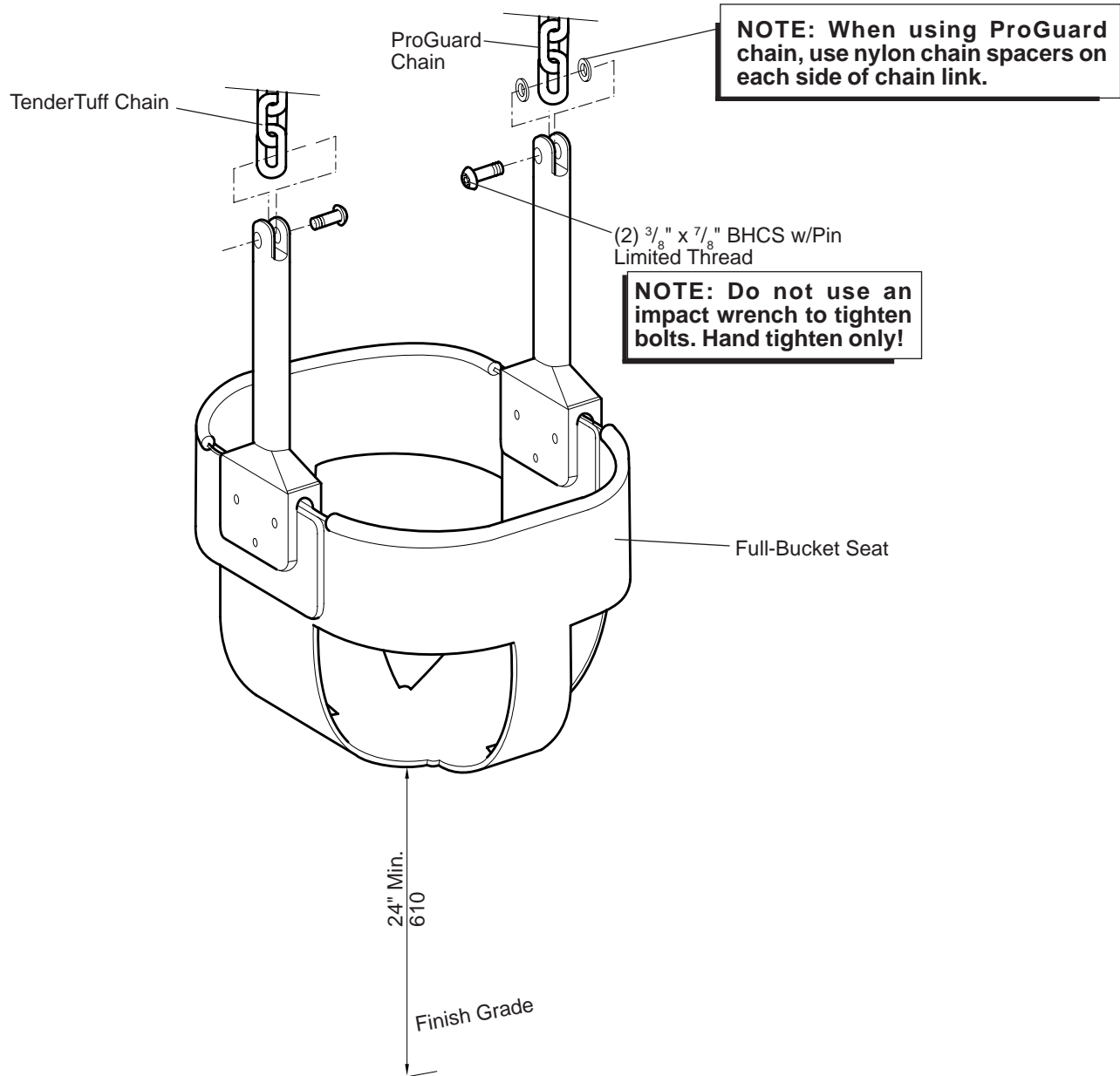
- 1) Attach chains to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install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





Swings

176038 Full-Bucket Seat, w/Chains

Sheet 1 of 2

Parts List

Part#	Description	Qty.
7 Ft. High Beam (5" Dia. Beam)		
186276	Full-Bucket Swing Seat, Black	1
141739	43 ³ / ₁₆ " Chain, TenderTuff, Specify Color	2
175248	43 ³ / ₁₆ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4
8 Ft. High Beam		
186276	Full-Bucket Swing Seat, Black	1
160110	52 ⁹ / ₁₆ " Chain, TenderTuff, Specify Color	2
174882	52 ⁹ / ₁₆ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4
10 Ft. High Beam		
186276	Full-Bucket Swing Seat, Black	1
152051	76 ⁷ / ₁₆ " Chain, TenderTuff, Specify Color	2
174883	76 ⁷ / ₁₆ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4
7 Ft. High Beam (Tot)		
186276	Full-Bucket Swing Seat, Black	1
152053	37 ¹ / ₂ " Chain, TenderTuff, Specify Color	2
175247	37 ¹ / ₂ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4
75" High Beam (Toddler)		
186276	Full-Bucket Swing Seat, Black	1
152016	29 ⁷ / ₈ " Chain, TenderTuff, Specify Color	2
174881	29 ⁷ / ₈ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	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. (7 FT. Beam 5" Dia. w/TenderTuff Chain)
 13 lbs. (7 FT. Beam 5" Dia. w/ProGuard Chain)
 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

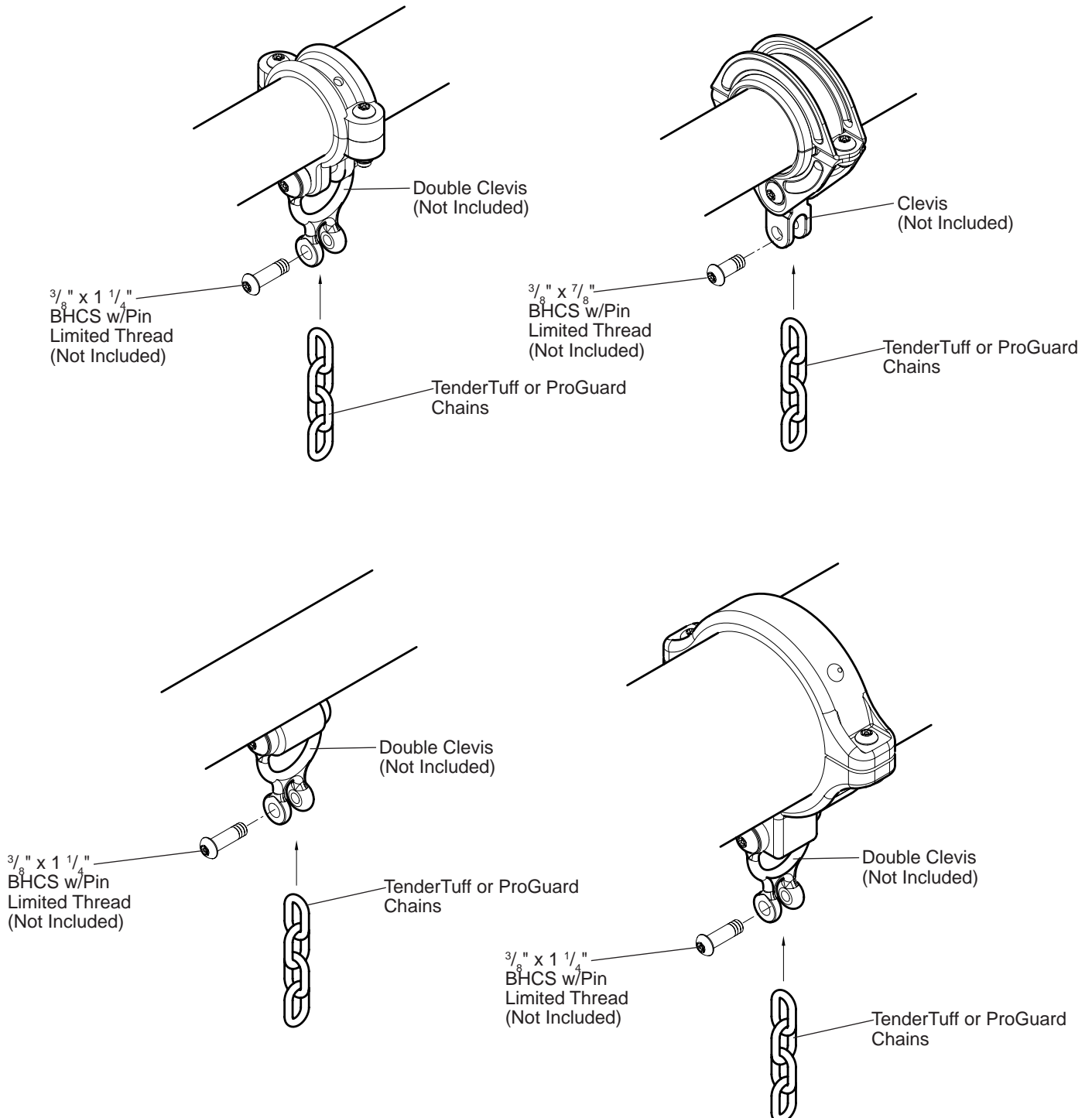
Swing Hangers with Double Clevis

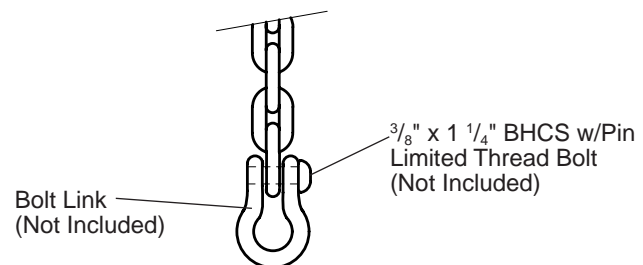
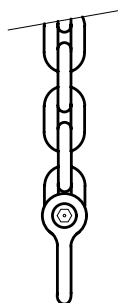
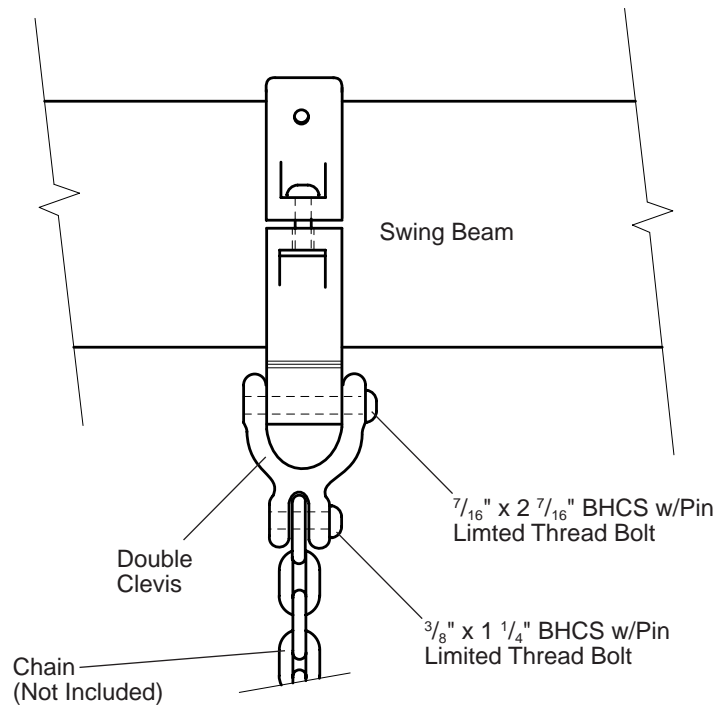
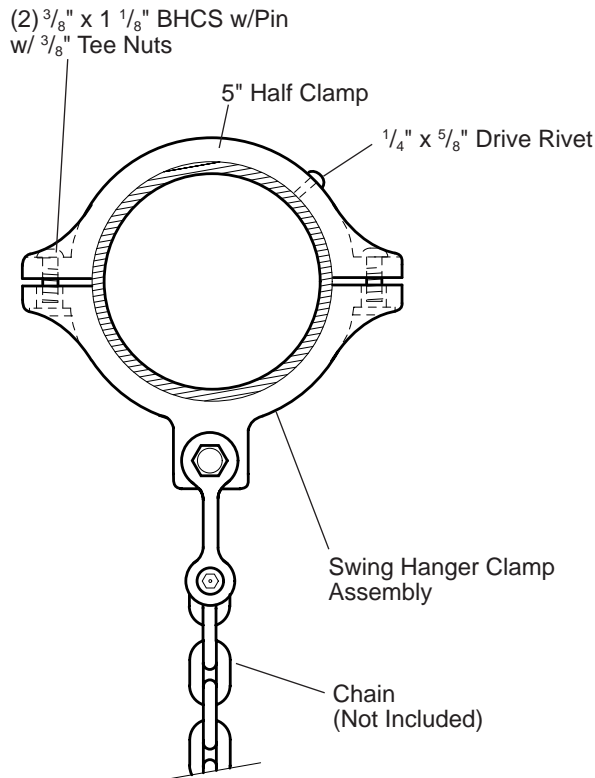
- 1) Attach chains to double clevis using ³/₈" x 1 ¹/₄" BHCS w/pin limited thread bolts, as shown.
- 2) Attach chains to full-bucket seat using ³/₈" x ⁷/₈" BHCS w/pin limited thread bolts. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install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





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

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).

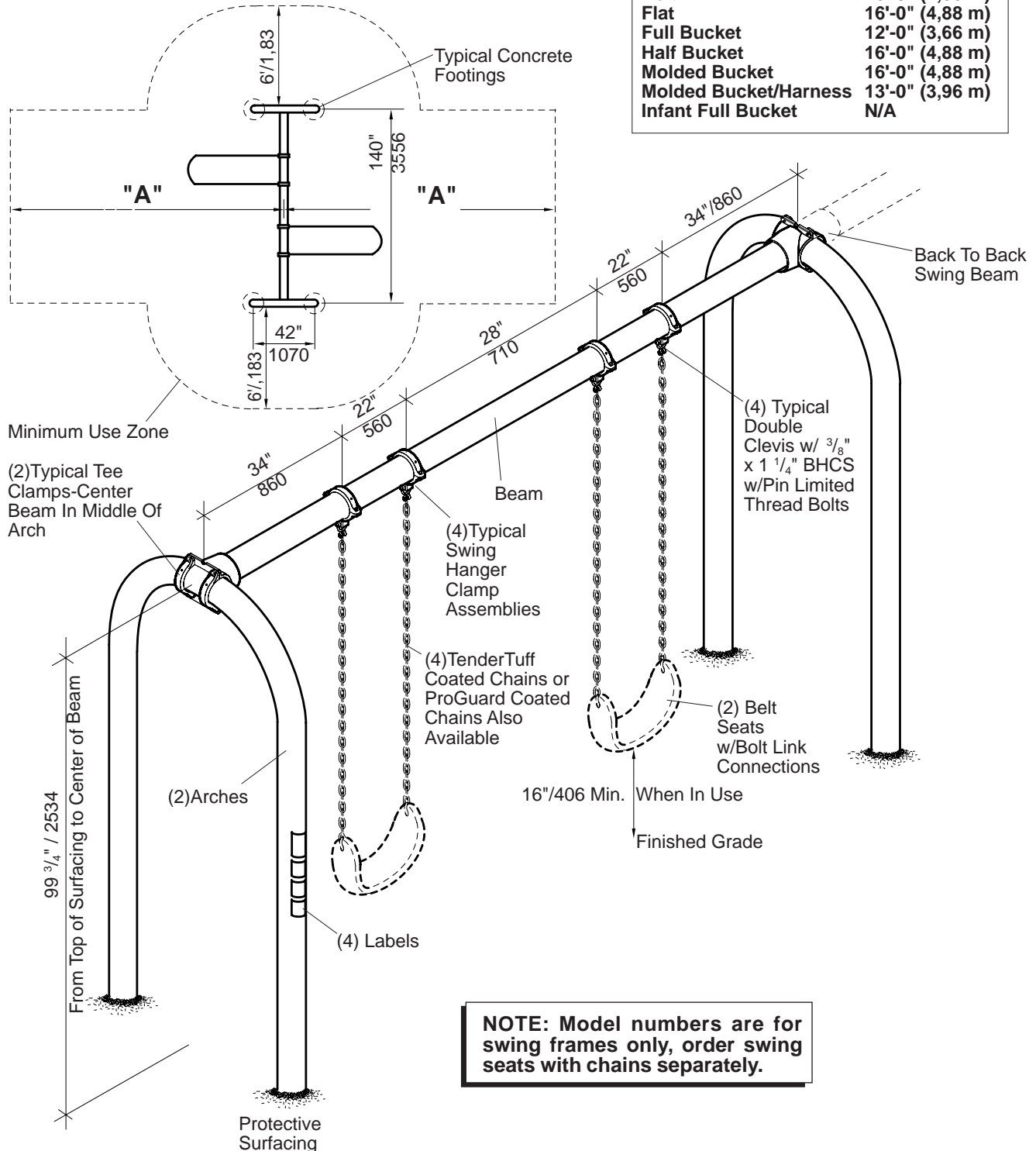
Installation Time: Approx. $\frac{1}{2}$ man hour

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 #221293 Additional Bay

Swings

221292/221293 Arch Swing Frame

Sheet 1 of 2

Parts List

Part#	Description	Qty.	2 Pl	Add. Bay
126749	Swing Arch, Specify Color.....	2.....	1	
100610	1/4" x 5/8" Drive Rivet, AL/SST.....	8.....	6	
105327	5" Half Clamp, Specify Color.....	8.....	4*	
216492	140" Swing Beam, Specify Color.....	1.....	1	
121291	Swing Hanger Clamp Assy. Specify Color	4.....	4	
121289	Swing Hanger Clamp, Specify Color.....	4.....	4	
127068	7/16" x 2 7/16" BHCS w/Pin Ltd. Thread, SST.....	4.....	4	
138917	Swing Hanger Double Clevis.....	4.....	4	
100667	Oilite Bushing.....	4.....	4	
243802	Hdw Pkg 5iOD Swing Beam.	1.....	1	
100198	3/8" x 1 1/8" BHCS w/Pin, SST.....	8.....	8	
234397	BHCS 6LP LTHD 7/16 x 1 11/16i, SST.....	8.....	8	
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST.....	4.....	4	
100351	3/8" Tee Nut, SST.....	8.....	8	
156846	Play Safe Label, 2-12 Yrs.....	1.....	1	
234937	7/16" D Cut Washer, SST.....	16.....	16	
182213	Hot Surface Warning Label.....	1.....	1	
182212	Entanglement Warning Label.....	1.....	1	
115176	Hard Surface Warning Label.....	1.....	1	
100330	7/16" Nylok Hex Nut.....	8.....	8	

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

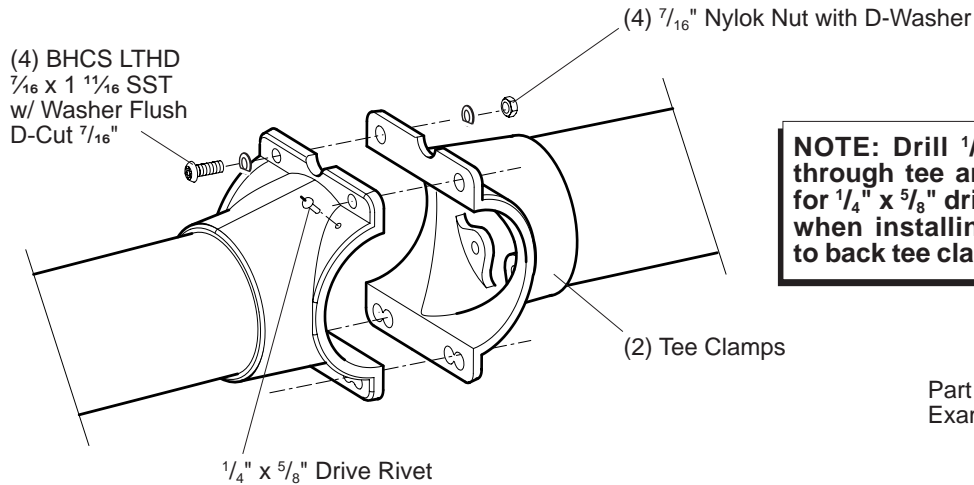
Specifications

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" wall. Finish: ProShield®, color specified.
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. 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'-8" x 32' (3,55 m x 9,75 m)
Weight:	204 lbs. Additional Bay 124 lbs.
Fall Height:	96" (2,43 m)

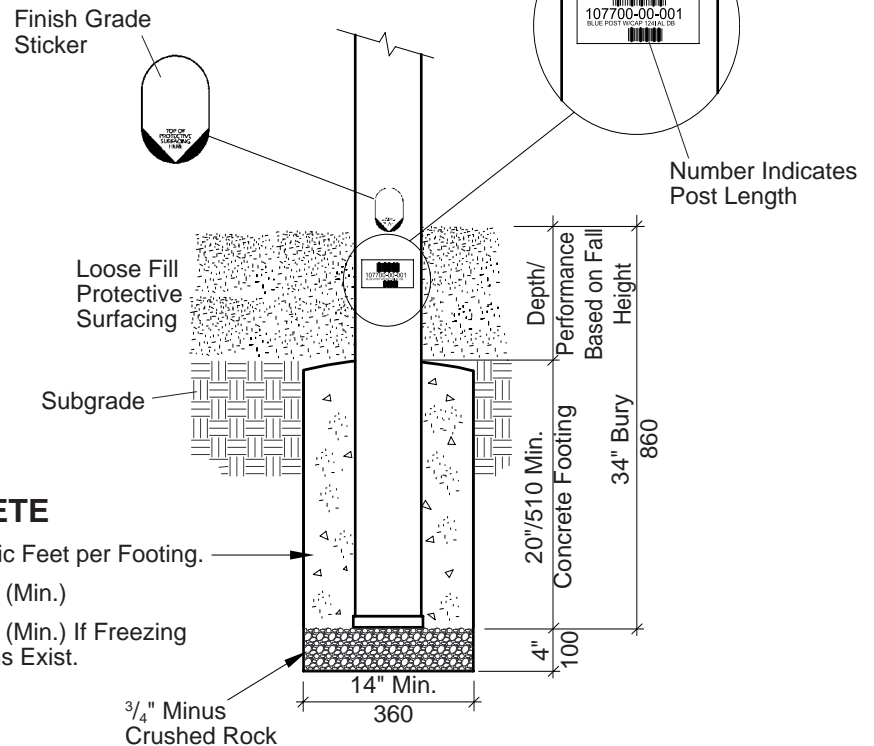
Installation Instructions

- 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 7/16" BHCS w/Pin, 7/16" D-Cut Washers, and 7/16" Nylok 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.

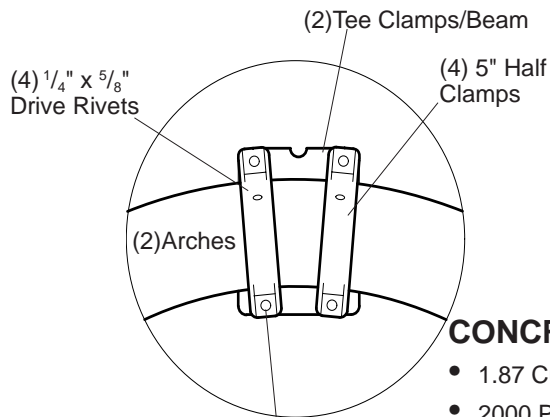
**DETAIL
BACK TO BACK
TEE CLAMPS**



**DETAIL
CONCRETE FOOTING**



**DETAIL
TEE CLAMP POSITION**

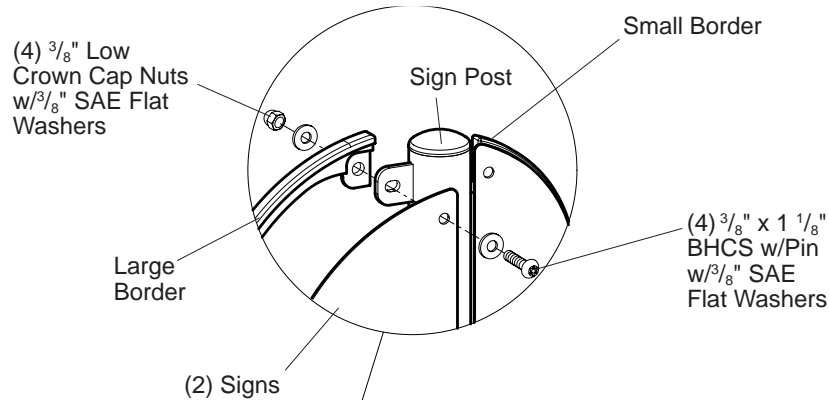


NOTE: Use inside holes for (4) $\frac{7}{16}$ BHCS w/Pin limited thread w/D-Washer $\frac{7}{16}$ Nylok Nut w/D-Washer

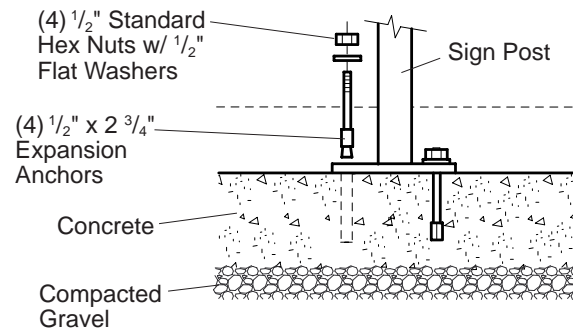
CONCRETE

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

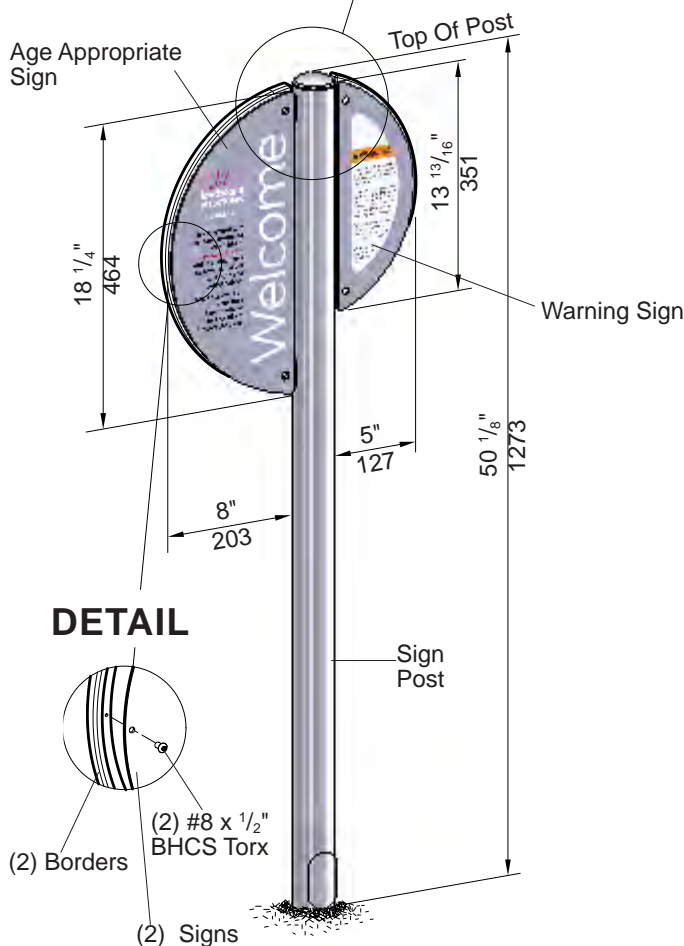
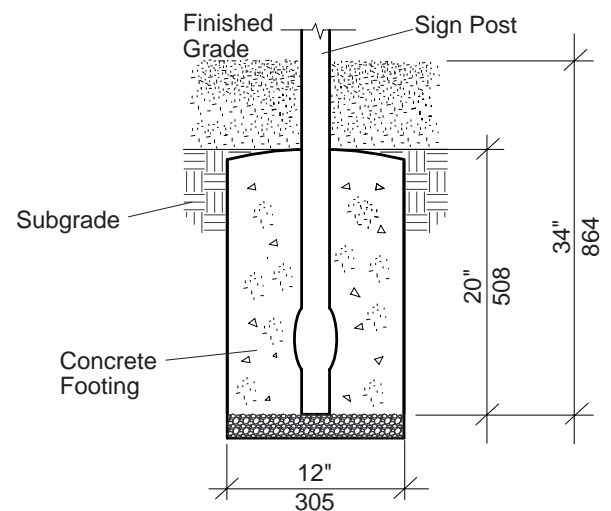
DETAIL SIGN ATTACHMENT



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.
219911	Warning Sign, Gray	1
219912	Age Appropriate Sign, 2-12 Years, Gray	*
219913	Age Appropriate Sign, 2-5 Years, Gray	*
219914	Age Appropriate Sign, 5-12 Years, Gray	*
219915	Age Appropriate Sign, 1 1/2-5 Years, Gray	*
219916	Age Appropriate Sign, 1 1/2-12 Years, Gray	*
219918	Age Appropriate Sign, 6-23 Months, Gray	*
180598	Sign Post (DB), Specify Color	*
181119	Sign Post (SM), Specify Color	*
193782	Large Border, Black	1
193783	Small Border, Black	1
213258	Age/Warning Sign Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100349	3/8" Low Crown Cap Nut, SST	4
100365	3/8" SAE Flat Washer, SST	8
168323	#8 x 1/2" BHCS Torx, SST	2
169413	1/4-6 Lobe T-15 Tamp. Bit	1
121348	4 Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor	4
100322	1/2" Standard Hex Nut, SST	4
100363	1/2" Flat Washer, SST	4

DB = Direct Bury

SM = Surface Mount

* = Quantity Determined By Your Order

Specifications

Sign Panel: Panel is fabricated from 1/8" (.125")(3,17 mm) aluminum plate. Finish: ProShield®, gray in color. **(Sign)** Digital image is transferred to a 1/8" (.125")(3,17 mm) ProShield coated aluminum 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

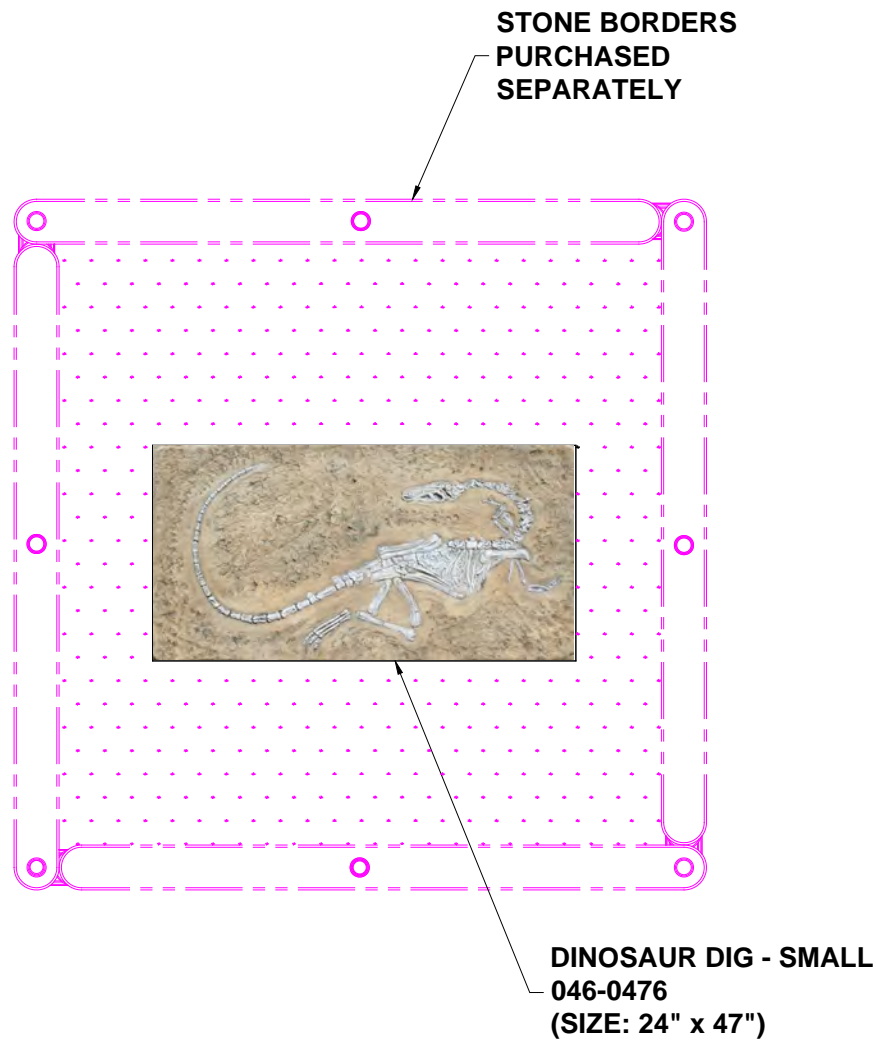
- 1) Dig footing hole to depth and diameter shown.
- 2) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers. Attach signs to borders using #8 x 1/2" BHCS Torx.
- 3) Set sign assembly in footing hole 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. Attach signs to borders using #8 x 1/2" BHCS Torx.
- 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.

WILLIAM SLATER PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS



SHOWN IN 6' X 6' SANDBOX

LOCATION AND DEPTH OF DINOSAUR DIG IS TO BE DETERMINED BY CUSTOMER.
MAKE SURE AREA WHERE THE DINOSAUR DIG LAYS, THE GROUND IS FLAT AND SOLID.
ONCE IN POSITION AT DESIRED DEPTH, COVER WITH SAND.

560-0550
DINOSAUR FOSSIL DIG - SMALL

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
046-0476	DINOSAUR DIG - SMALL	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

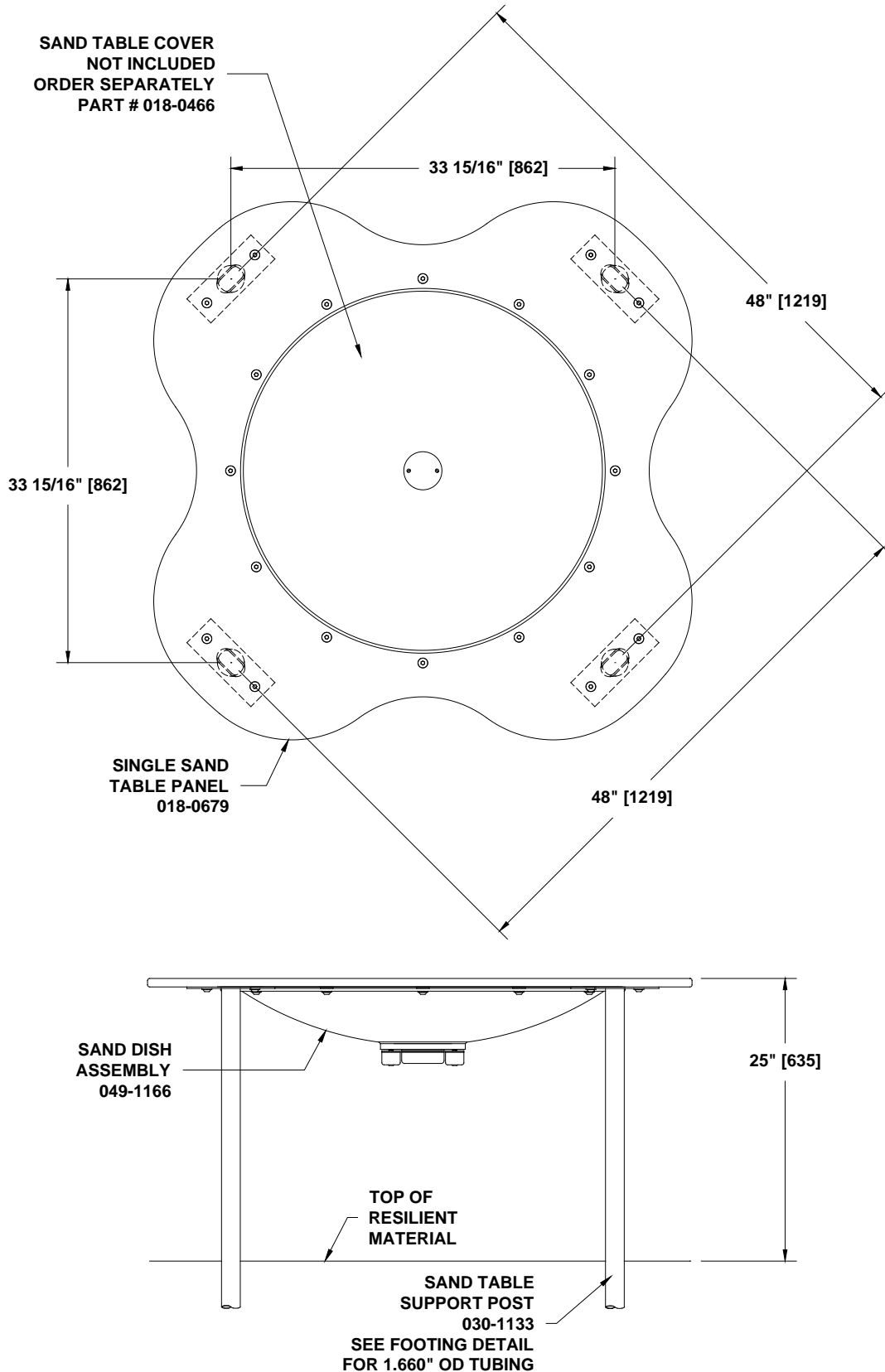
DINOSAUR DIG - SMALL: GFRC

SHIPPING WEIGHT: 61 LBS.

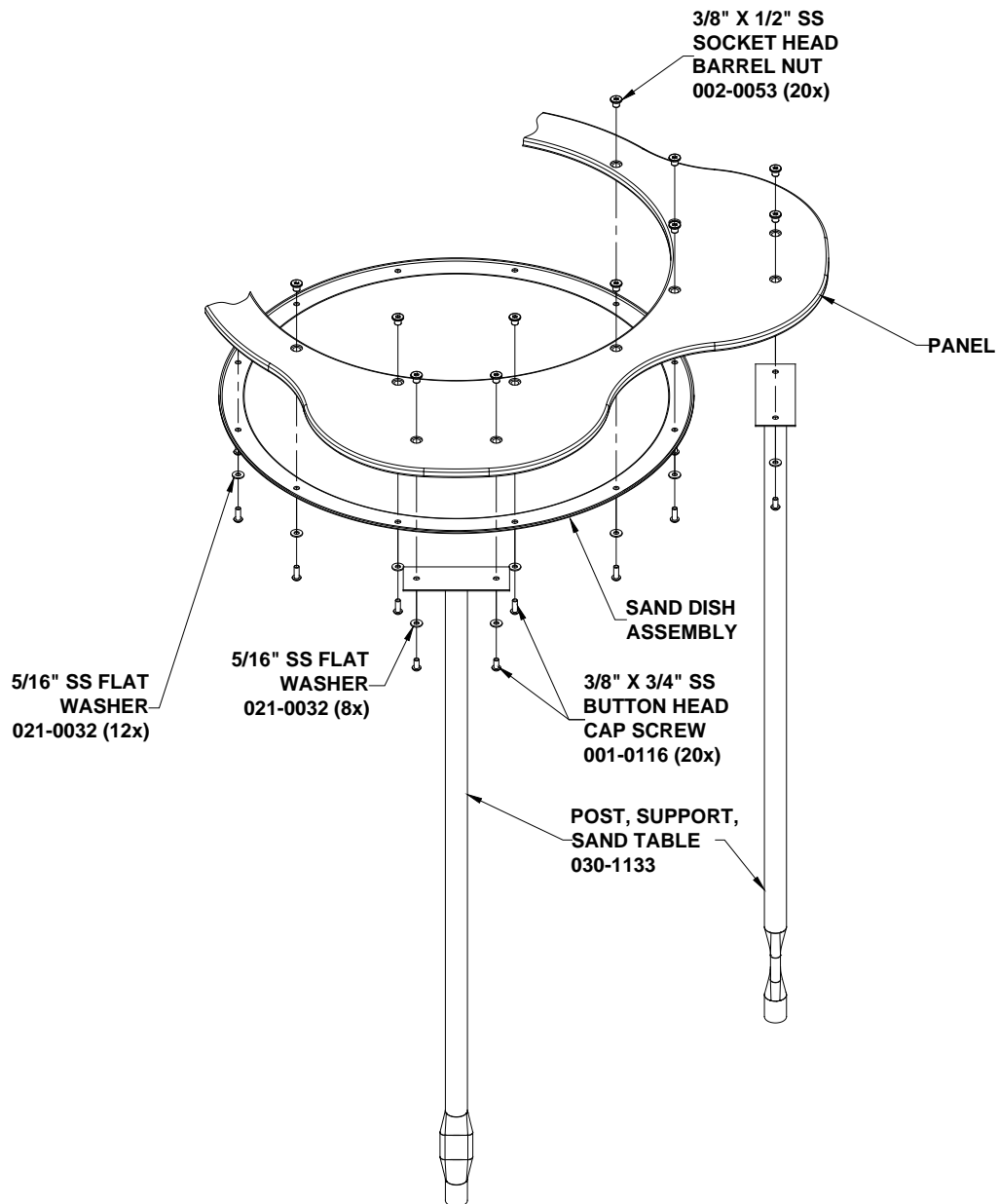
INSTALLATION INSTRUCTIONS

1. Determine the location and depth of the DINOSAUR DIG in the new or existing sandbox (determined by the customer).
2. Make sure area where the Dinosaur Dig lays, the ground is flat and solid.
3. Once in position at desired depth, cover with sand.





580-0280 SINGLE SAND OR WATER TABLE



EXPLODED VIEW

580-0280 SINGLE SAND OR WATER TABLE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-0679	PANEL, SINGLE, SAND TABLE	1
030-1133	POST, SUPPORT, SAND TABLE	4
036-1364	HARDWARE PACKAGE	5
049-1166	SAND DISH ASSEMBLY	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PANEL, SINGLE, SAND TABLE: 3/4" extruded HDPE.

POST, SUPPORT, SAND TABLE: One piece all welded construction consisting of 12 GA galvanized steel plate and 1.660" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel

SAND DISH ASSEMBLY: Assembly consisting of 1/8" & 1/4" aluminum plate, 1/8" rubber gasket, 16 GA stainless steel plate, stainless steel tubular rivets, 1 5/8" OD nylon knobs, 3/8" X 1 3/4" SS cap screw, and a one piece welded construction consisting of 1/8" spun aluminum and 1/2" aluminum plate finished with a baked on powder coating.

SHIPPING WEIGHT: 83 LBS.

INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until assembly is complete.

1. Locate and dig footing holes per dimensions shown. See typical concrete footing details which are located in the preface of your installation manual.
2. Attach the SAND DISH ASSEMBLY to the SINGLE SAND TABLE PANEL using 3/8" X 3/4" SS button head cap screws, 5/16" SS flat washers and 3/8" X 1/2" SS Socket head barrel nut. SEE EXPLODED VIEW.
3. Attach the SAND TABLE SUPPORT POSTS to the SAND TABLE END PANEL using 3/8" X 3/4" SS button head cap screws, 5/16" SS flat washers and 3/8" X 1/2" SS Socket head barrel nut. SEE EXPLODED VIEW.
4. Tighten all hardware.
5. Block-up, plumb and level unit.
6. Pour concrete. Allow concrete to set for 2-3 days.
7. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

WALNUT GROVE PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

Walnut Grove Park

Option #1.2 - Ages 5 to 12



(800) 775-8937 Main
(608) 423-7655 Fax

260 W. Main St.
Cambridge, WI 53523

info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



Walnut Grove Park

Option #1.2 - Ages 5 to 12



LR
LEE
RECREATION, LLC

(800) 775-8937 Main
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Cambridge, WI 53523

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www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995

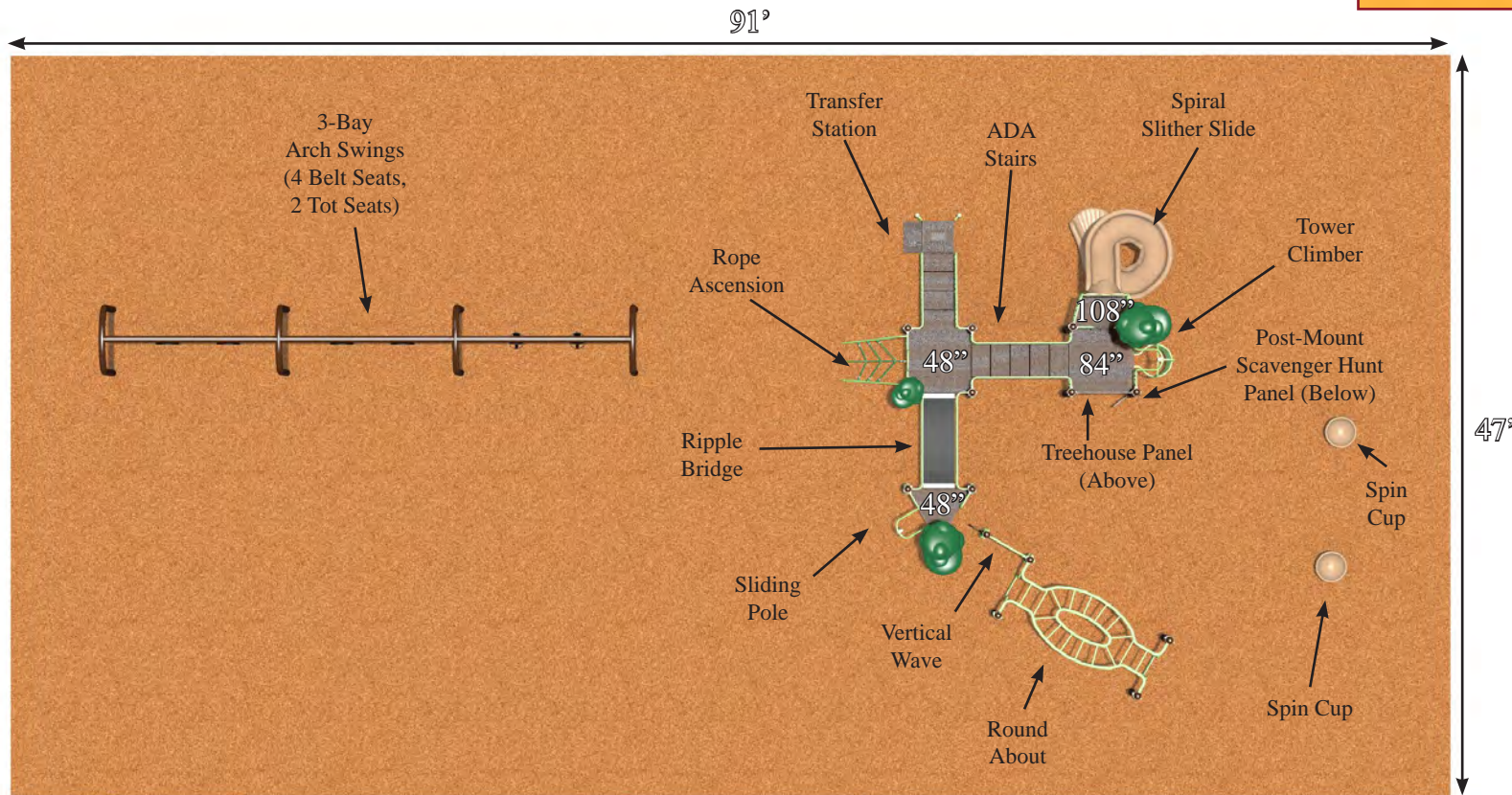
Walnut Grove Park

Option #1.2



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(608) 423-7655 Fax
260 W. Main St.
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



Project #: LR121818-12
Use Zone: 44' x 119'
Age Range: 5 to 12
Number of Users: 46
Number of Active Play Events: 18
Colors: Dark Brown, Brownstone,
and Lime

Walnut Grove Park

Option #2 - Ages 2 to 5



(800) 775-8937 Main
(608) 423-7655 Fax

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Cambridge, WI 53523

info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



Walnut Grove Park

Option #2 - Ages 2 to 5



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Cambridge, WI 53523

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PROVIDING FUN ACROSS WISCONSIN SINCE 1995



Walnut Grove Park

Option #2 - 2 to 5

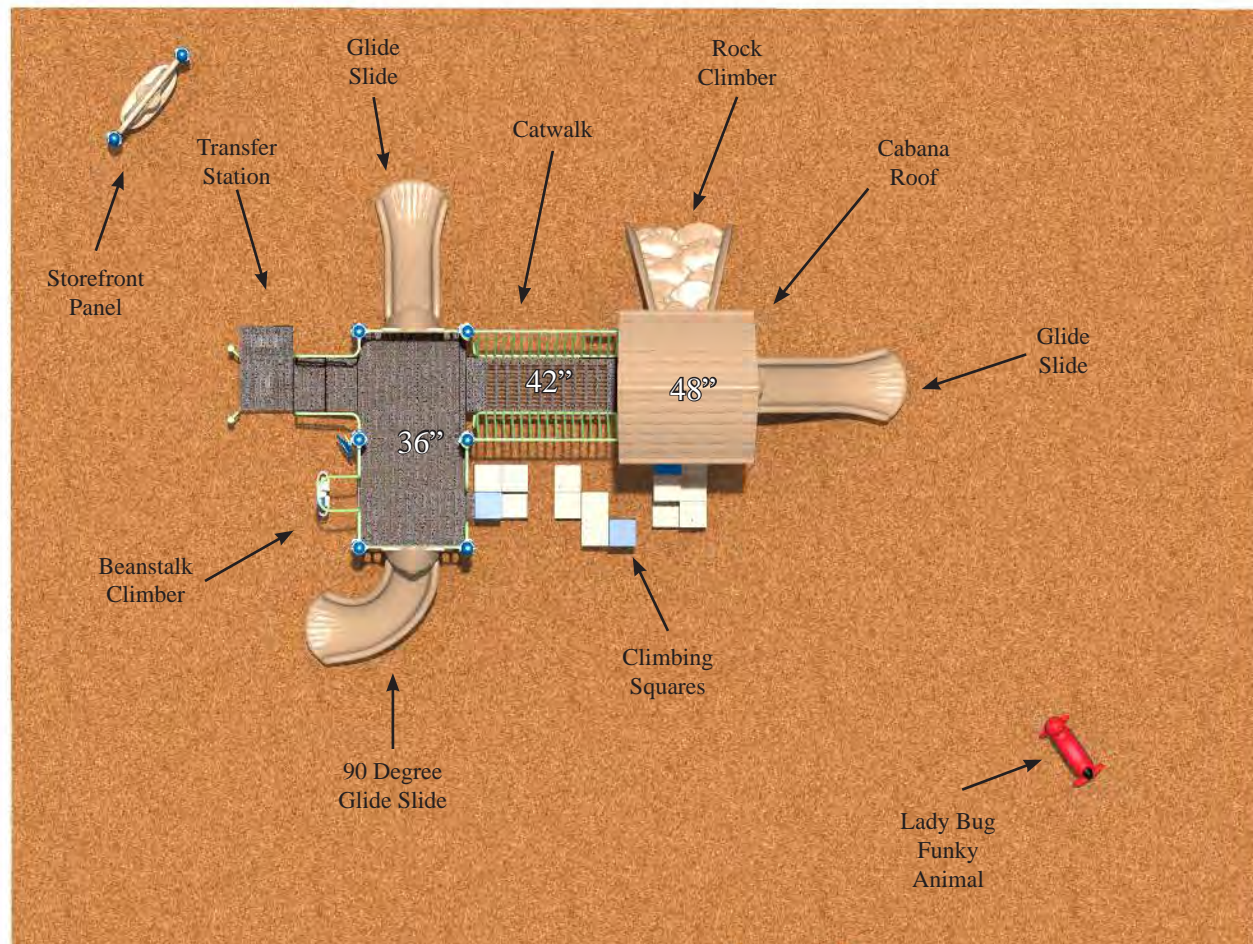


(800) 775-8937 Main
(608) 423-7655 Fax

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Cambridge, WI 53523

info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



Project #: LR030119

Use Zone:

Age Range: 2 to 5

Number of Users: 35

Number of Active Play Events: 10

Colors: Blue, Brownstone, and Lime



Assembly View *(representative model)*

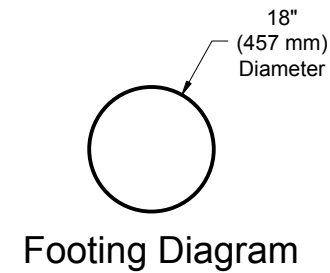
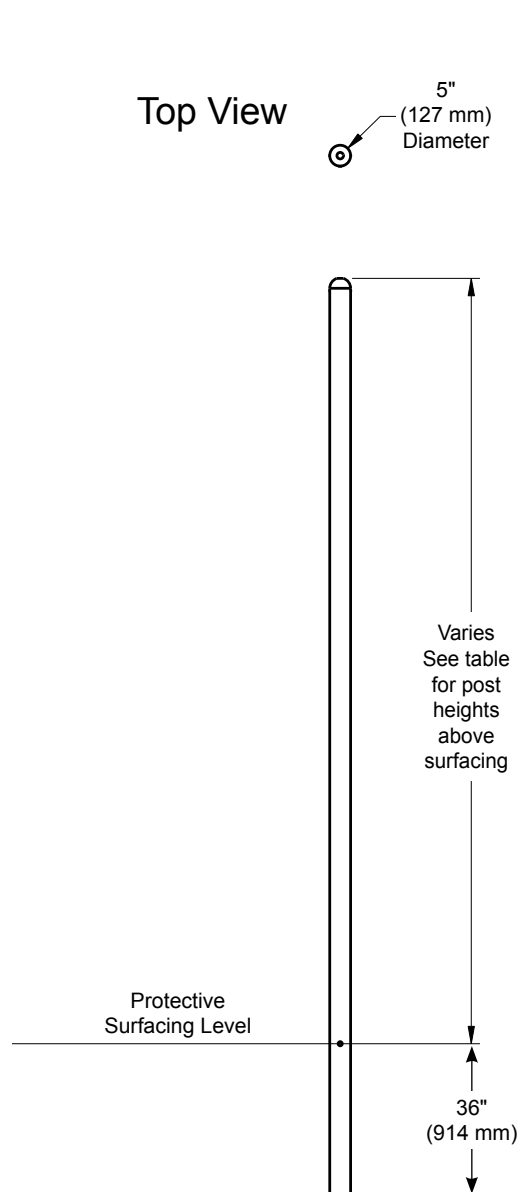
Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016,
PM0026, PM0036, PM0046, PM0056, PM0066,
PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ 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



Model	Post Height	Height Above Surfacing
ZZPM0006	96" (2438 mm)	60" (1524 mm)
ZZPM0008	108" (2743 mm)	72" (1829 mm)
ZZPM0016	120" (3048 mm)	84" (2134 mm)
ZZPM0026	132" (3353 mm)	96" (2438 mm)
ZZPM0036	144" (3658 mm)	108" (2743 mm)
ZZPM0046	156" (3962 mm)	120" (3048 mm)
ZZPM0056	168" (4267 mm)	132" (3353 mm)
ZZPM0066	180" (4623 mm)	144" (3658 mm)
ZZPM0078	205" (5207 mm)	169" (4293 mm)
ZZPM0128	192" (4877 mm)	156" (3962 mm)
ZZPM0266	217" (5512 mm)	181" (4597 mm)
ZZPM0268	229" (5817 mm)	193" (4902 mm)

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: Prepare footings as shown in the **Support Post Footing Detail** in the *Playmakers 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.

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBL AT 36"	1

PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 36"	1

PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBL AT 36"	1

PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBL AT 36"	1

PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 36"	1

PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBL AT 36"	1

PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 36"	1

PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBL AT 36"	1

PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBL AT 36"	1

PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBL AT 36"	1





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)

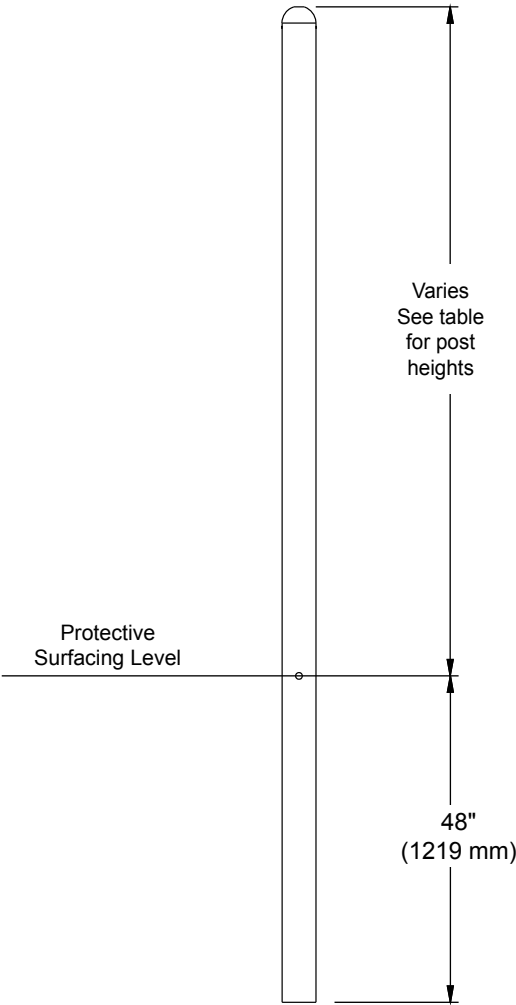
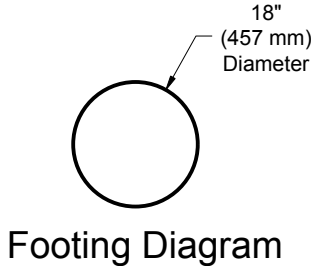
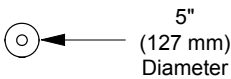
Installation Preparation

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



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0008GZ	108" (2743 mm)	60" (1524 mm)
ZZPM0036GZ	144" (3658 mm)	96" (2438 mm)
ZZPM0056GZ	168" (4267 mm)	120" (3048 mm)
ZZPM0066GZ	180" (4623 mm)	132" (3353 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: Prepare footings as shown in the **GroundZero® Support Post Footing Detail** in the *Playmakers 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.



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





Assembly View *(representative model)*

Installation Instructions

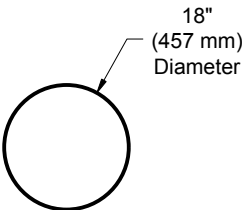
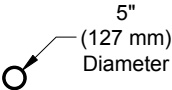
Playmakers® Models PM0017, PM0027, PM0037,
PM0047, PM0057, PM0067, PM0079, PM0129,
PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

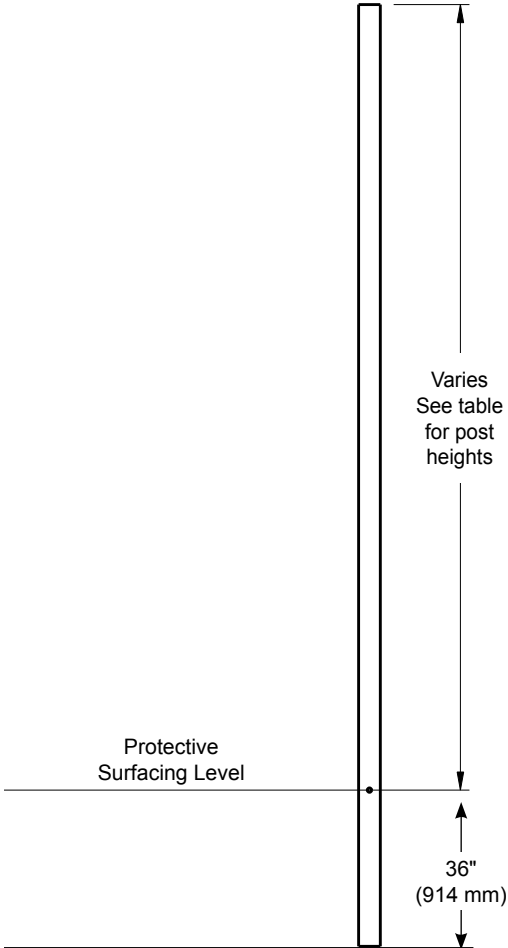
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0017	120" (3048 mm)	84" (2134 mm)
ZZPM0027	132" (3353 mm)	96" (2438 mm)
ZZPM0037	144" (3658 mm)	108" (2743 mm)
ZZPM0047	156" (3962 mm)	120" (3048 mm)
ZZPM0057	168" (4267 mm)	132" (3353 mm)
ZZPM0067	180" (4572 mm)	144" (3658 mm)
ZZPM0079	205" (5207 mm)	169" (4293 mm)
ZZPM0129	192" (4877 mm)	156" (3962 mm)
ZZPM0136	96" (2438 mm)	60" (1524 mm)
ZZPM0138	108" (2743 mm)	72" (1829 mm)
ZZPM0267	217" (5512 mm)	181" (4597 mm)
ZZPM0269	229" (5817 mm)	193" (4902 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: Excavate the footings as shown in the **Support Post Footing Details** in the *Playmakers 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.

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBL AT 36"	1

PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBL AT 36"	1

PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBL AT 36"	1

PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBL AT 36"	1

PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBL AT 36"	1

PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBL AT 36"	1

PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBL AT 36"	1

PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBL AT 36"	1

PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBL AT 36"	1

PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBL AT 36"	1

PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBL AT 36"	1

PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBL AT 36"	1



Installation Instructions

Playmakers® PM0616 and PM0629

Square and Long Coated Perforated Decks



ZZPM0616
Square Deck










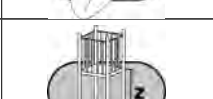
ZZPM0629
Long Deck

Assembly View

Installation Preparation

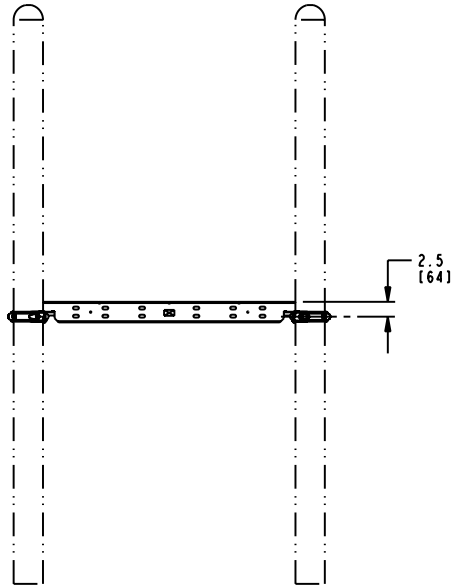
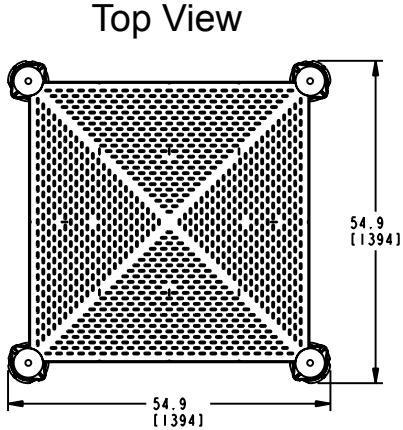
Recommended Crew (PM0616):..... Two (2) adults
 Recommended Crew (PM0629):..... Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

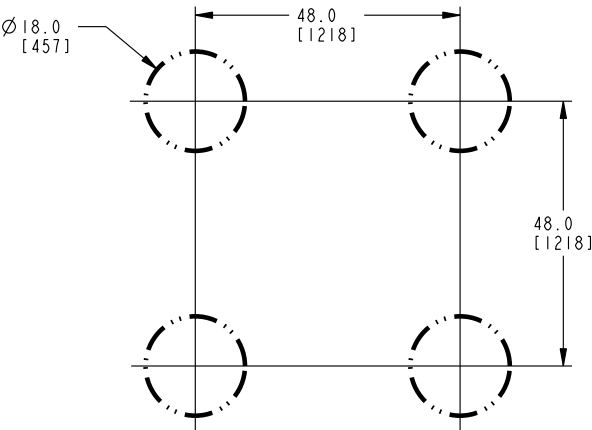
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	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

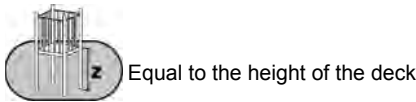
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Bottom #	[Millimeters]



Elevation View
Model PM0616

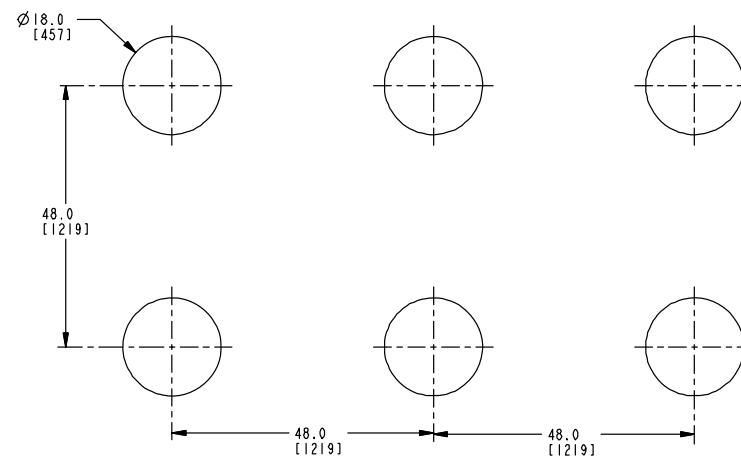
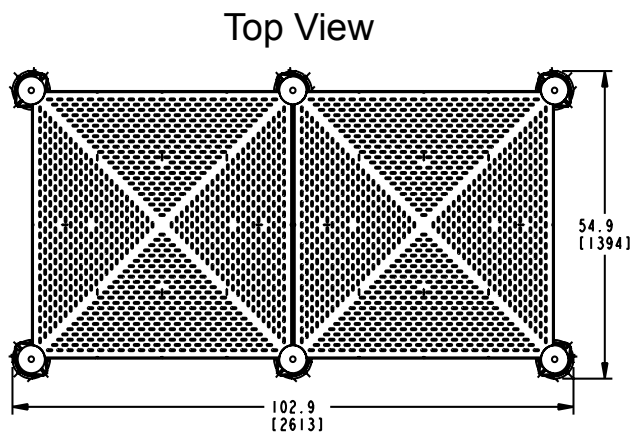


Footing Diagram

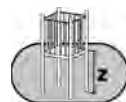
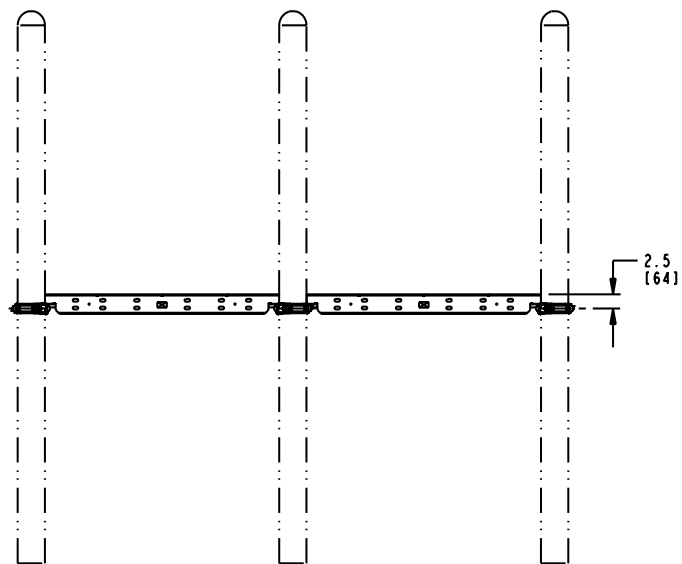


Installation Instructions

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



Footing Diagram



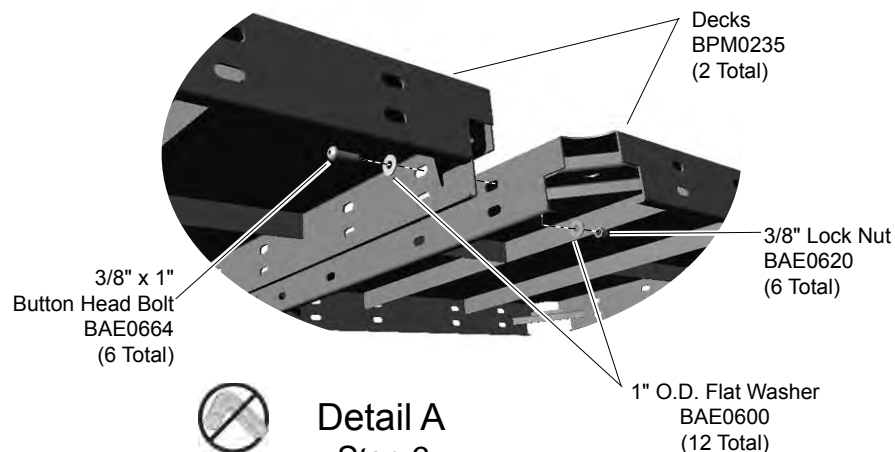
Equal to the height of the deck

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.

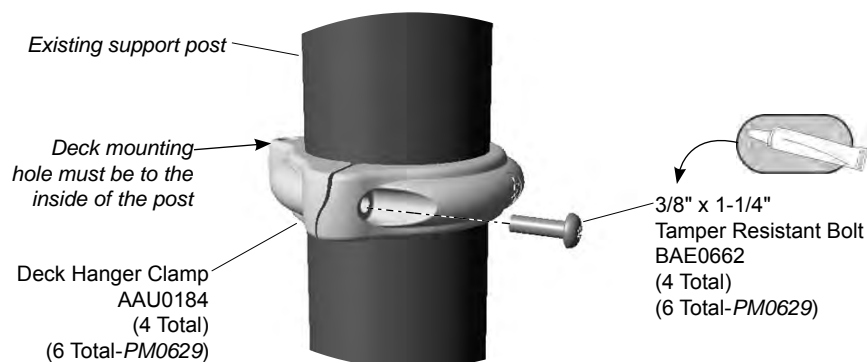


Detail A

Step 3

(Model PM0629 Only)

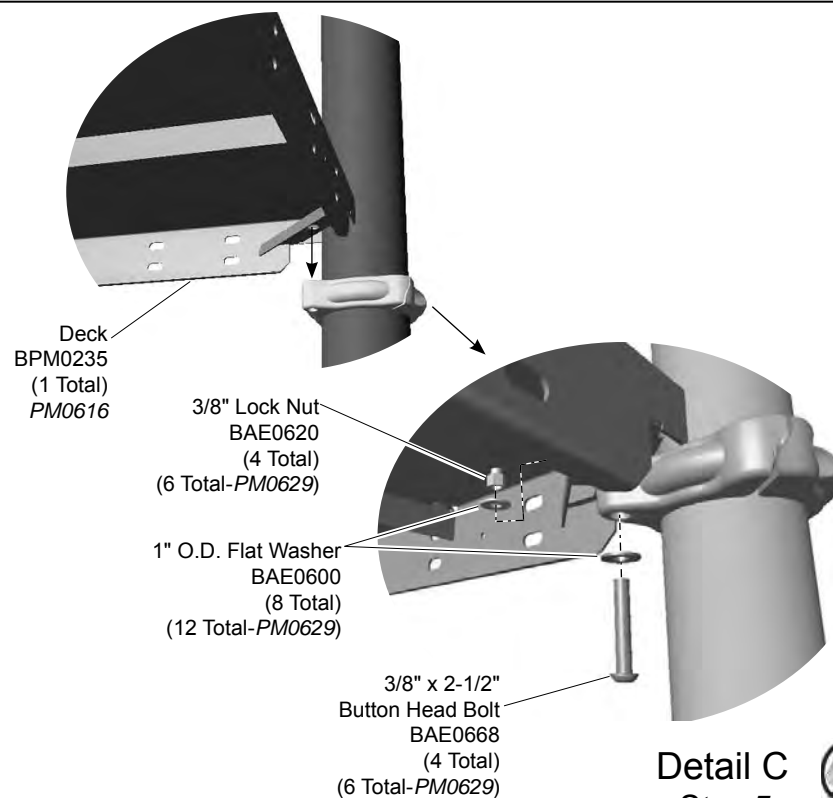
Attach the two decks together.



Detail B

Step 4

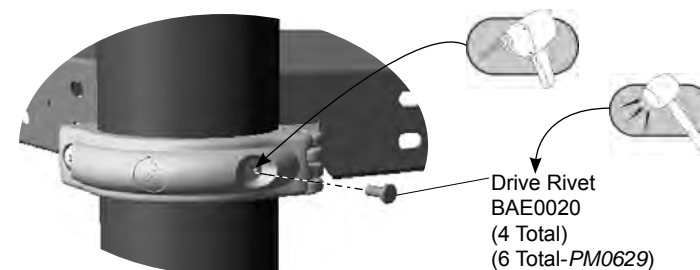
Attach the deck clamps to the support posts.



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









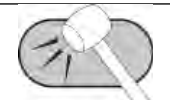
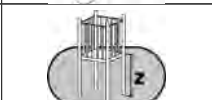
ZZPM0639
45 Degree Tri-Deck

Assembly View

Installation Preparation

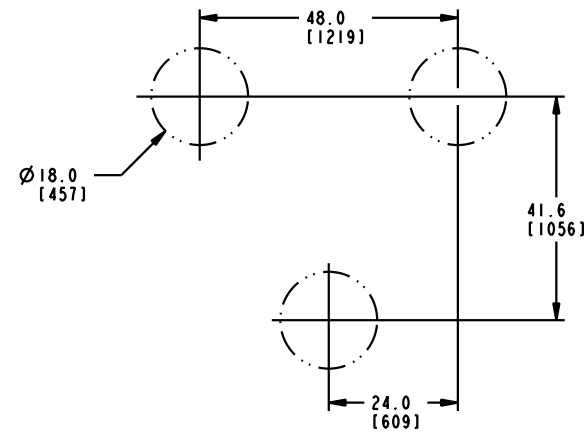
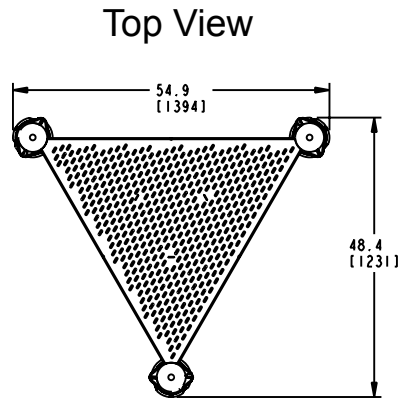
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

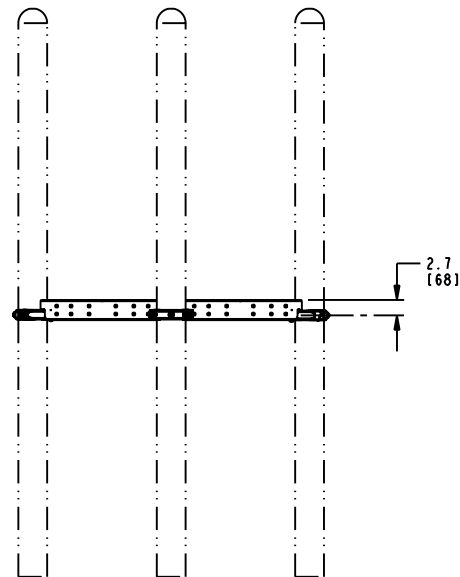
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

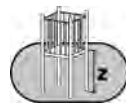
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Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



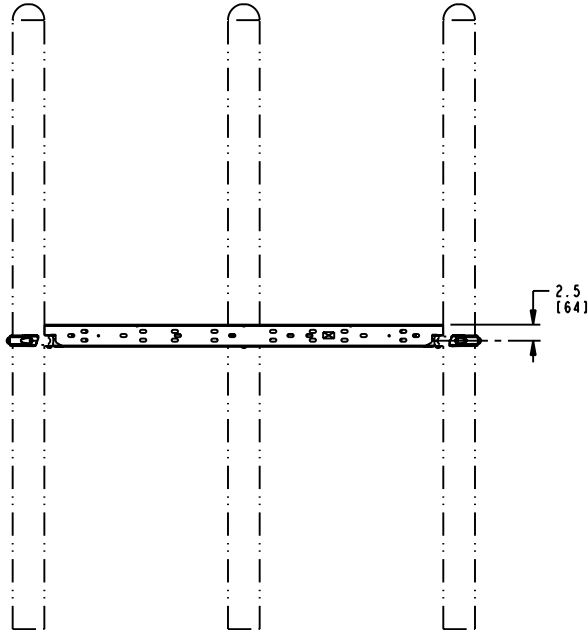
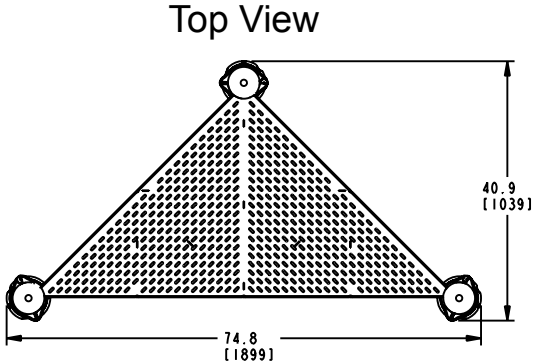
Elevation View
Model PM0617



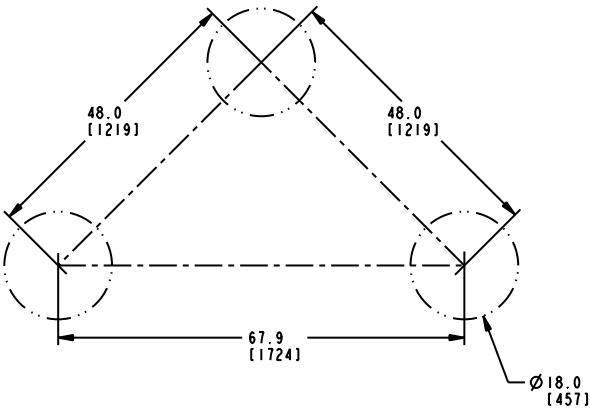
Equal to the height of the deck

Installation Instructions

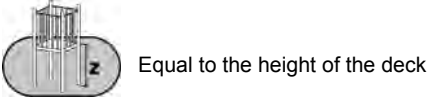
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0639

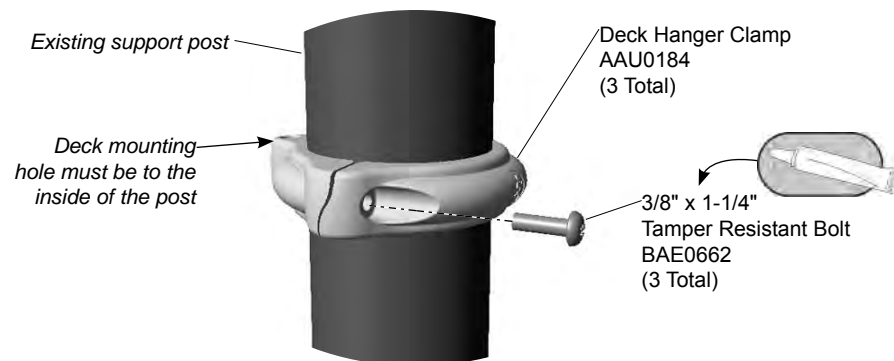


Footing Diagram



Installation Instructions

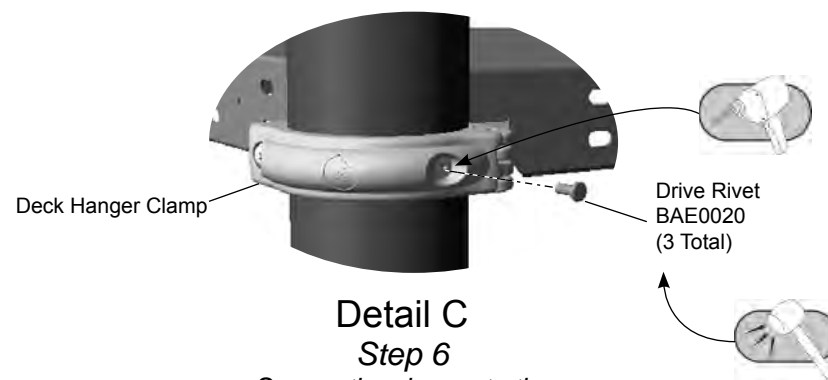
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A

Step 3

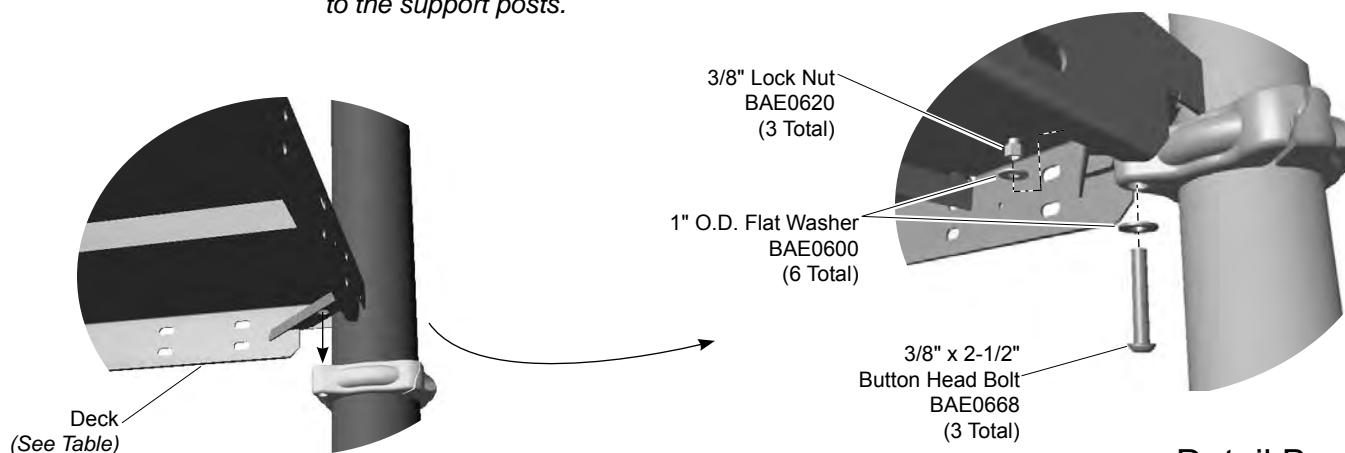
Attach the deck hanger clamps to the support posts.



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® Models PM2027 and PM2027S

48 in. (1219 mm) Transfer Station

In-Ground and Surface Mount

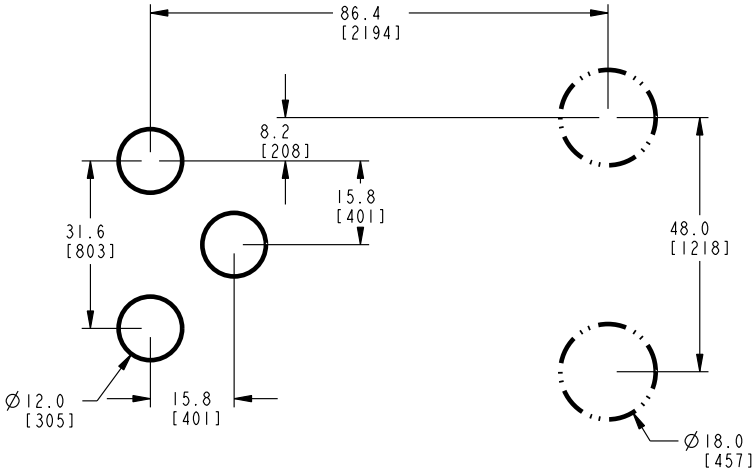
Installation Preparation

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

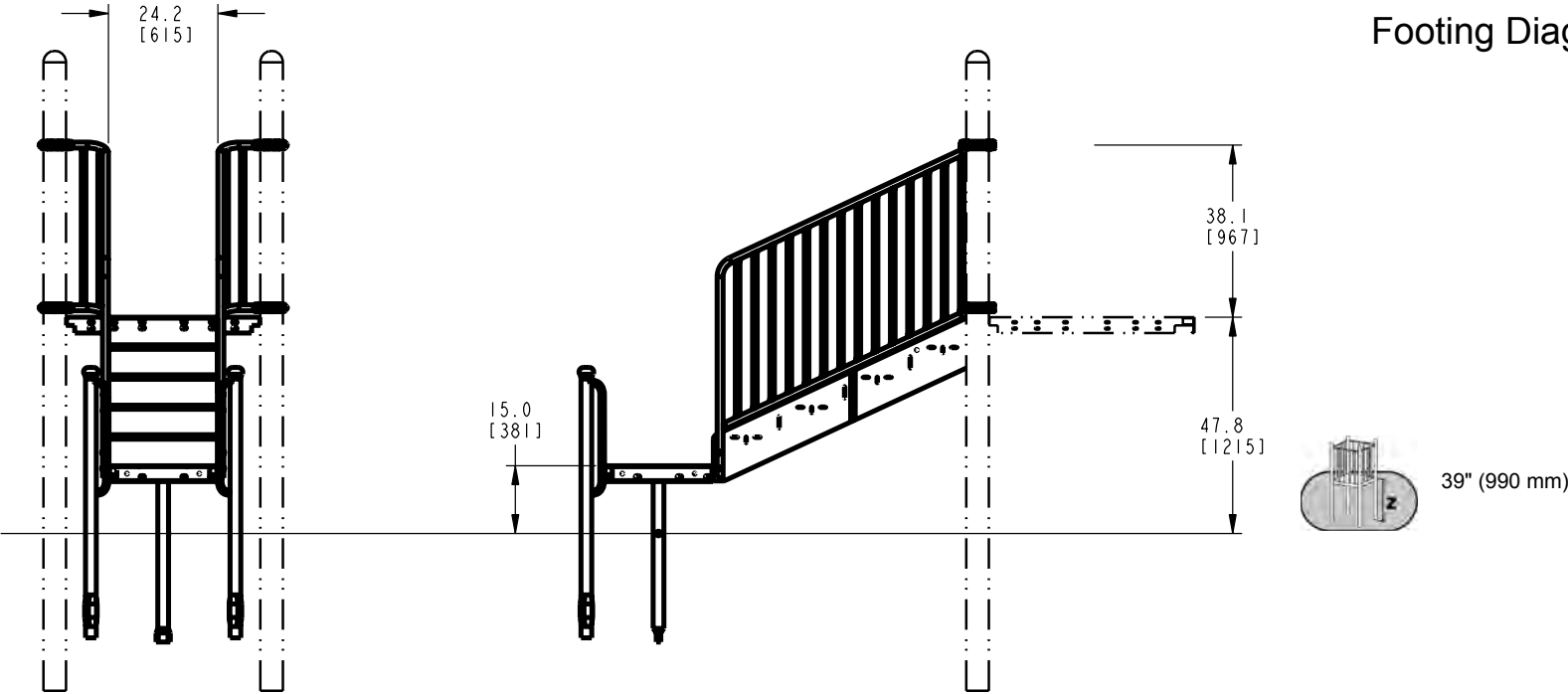
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

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



Footing Diagram

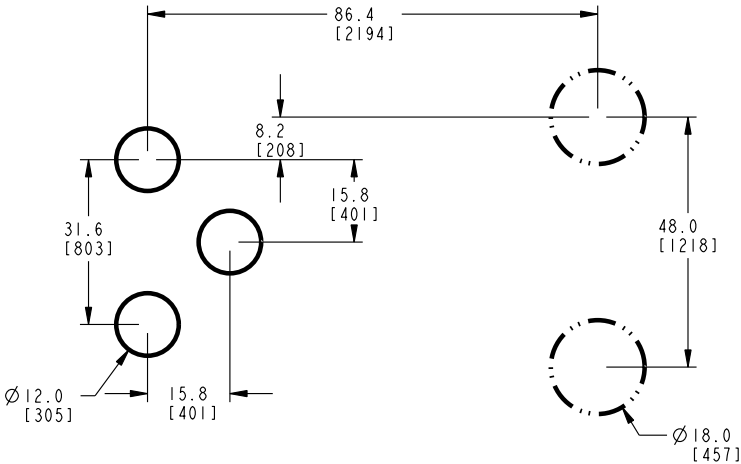


Elevation Views
PM2027

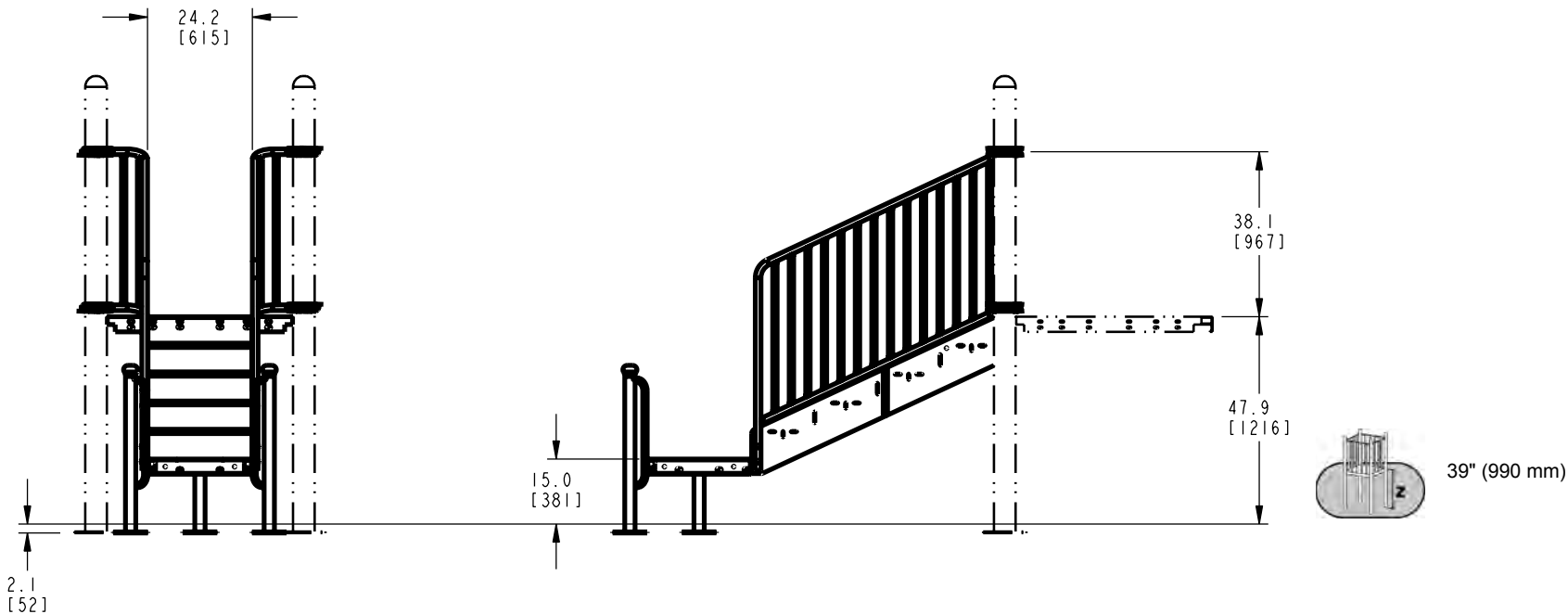


Installation Instructions

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



Footing Diagram

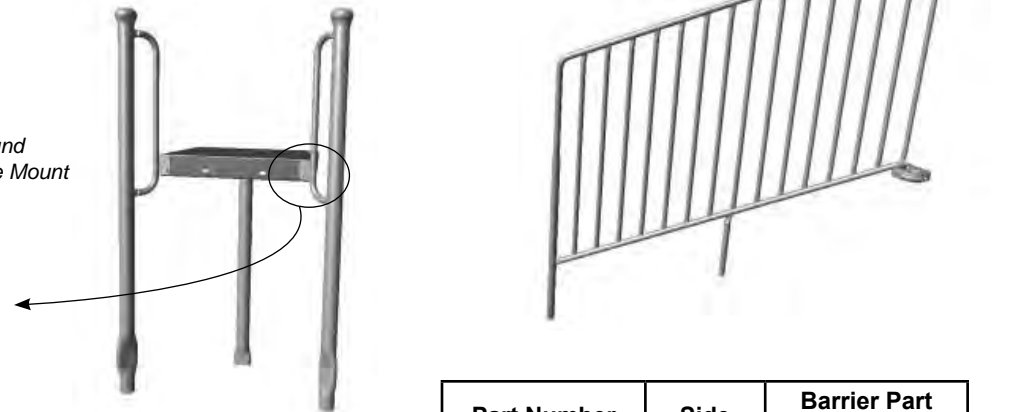
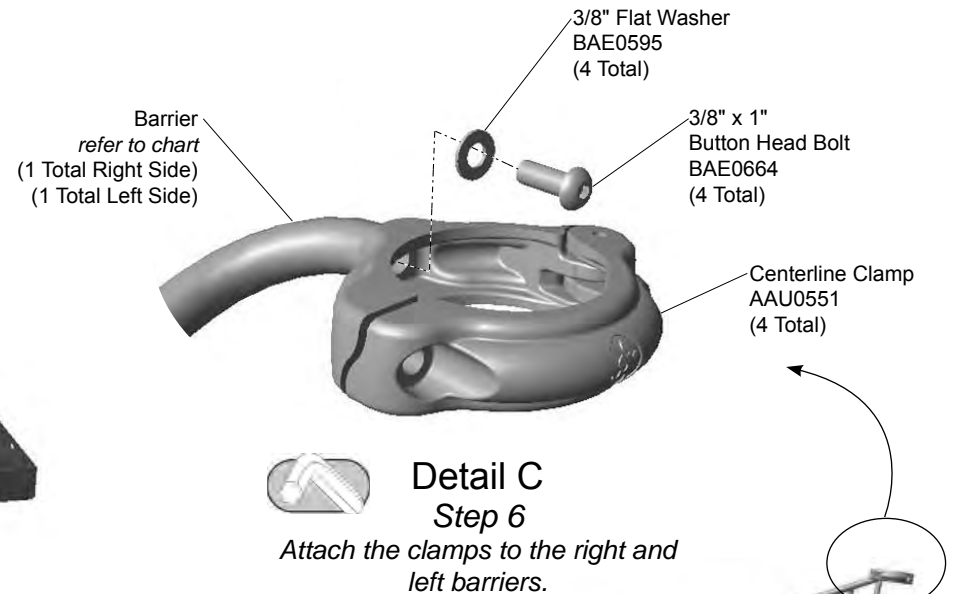
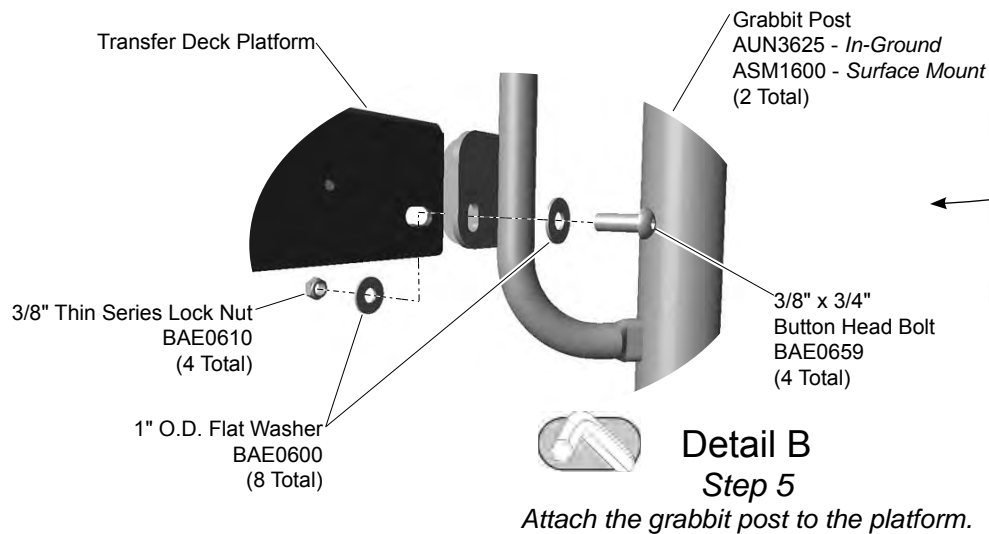
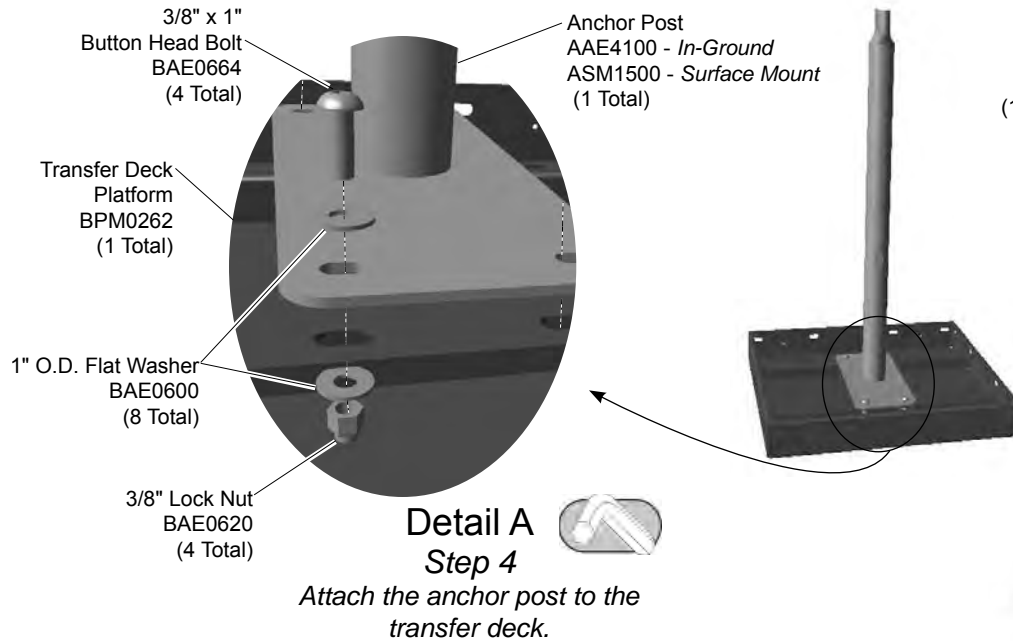


Elevation Views
PM2027S



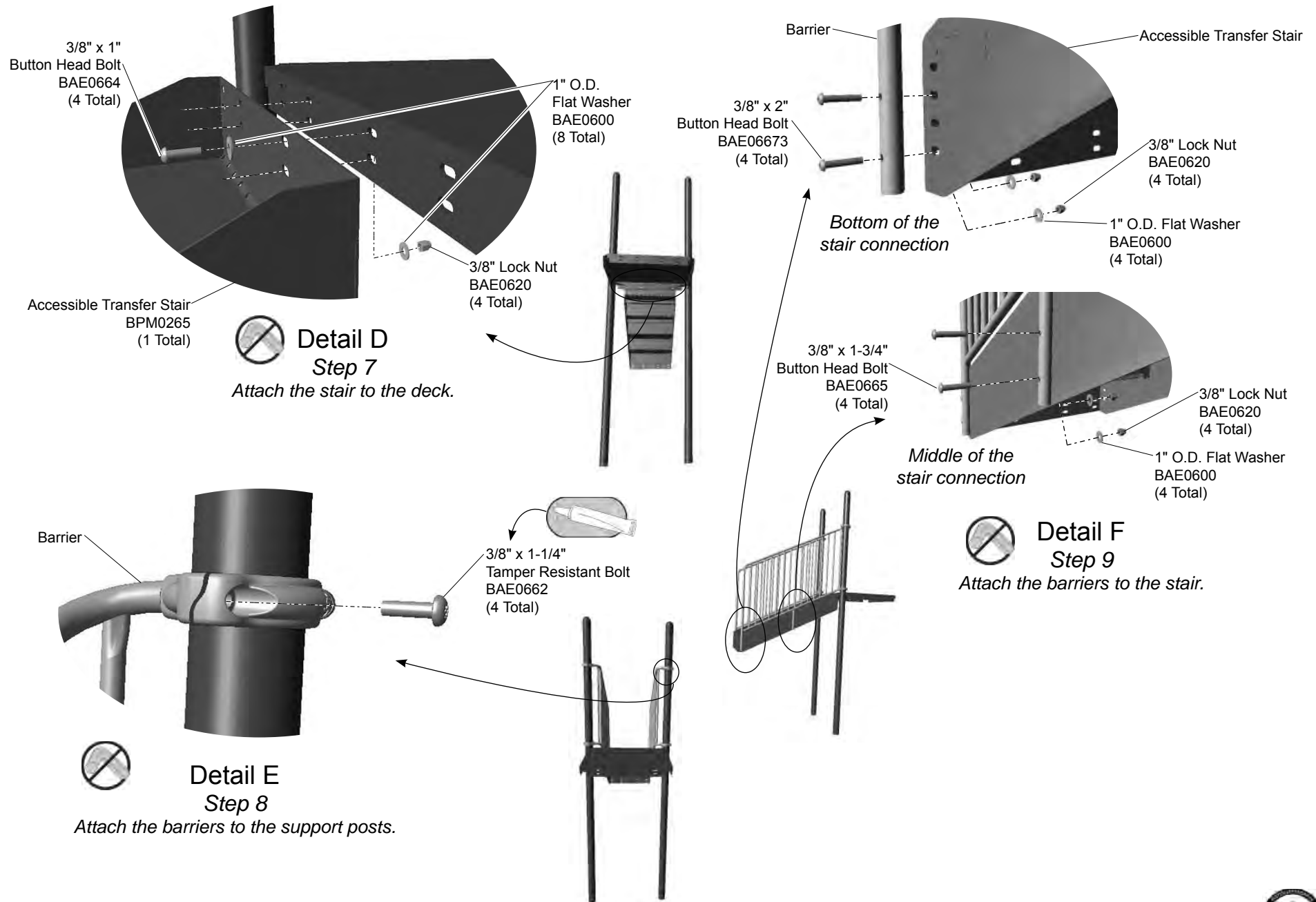
Installation Instructions

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

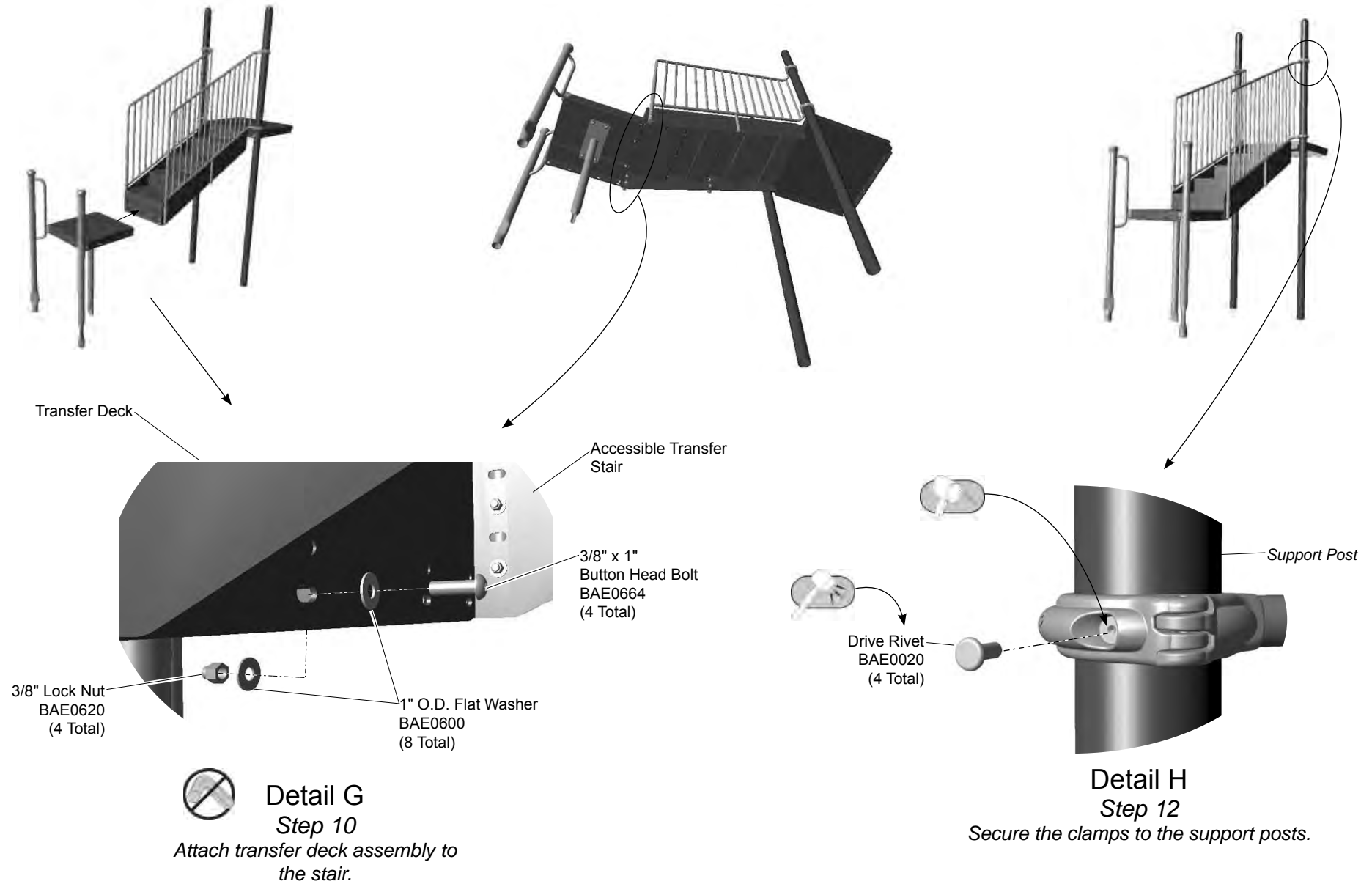


Part Number	Side	Barrier Part Number
ZZPM2027	Left	AEN0165
ZZPM2027	Right	AEN0164
ZZPM2027S	Left	AEN0165
ZZPM2027S	Right	AEN0164

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 barriers.

Step 6: Attach the clamps to barriers. See **Detail C**. Position the end of each barrier top and bottom rail against the neck of a 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 barriers to the support posts.

Step 8: Attach barriers to the support posts. See **Detail E** and Elevation View. Lift each barrier 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 barriers to the stair.

The barriers 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 barriers should be mounted at the same height.

Step 9: Attach the barriers to the bottom and middle of the stair. See **Detail F**. Align the barrier 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**. Place the transfer deck assembly into, or onto, 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.



ZZPM2027 - 48 in. (1219 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
AUN3625	POST - 59.81" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
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 DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16 X 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACSBLE COATED TRANSFER	1

ZZPM2027S - 48 in. (1219 mm) TRANSFER STATION SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38.69" GRABBIT SURFACE MOUNT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
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 DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACCESSIBLE COATED TRANSFER	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

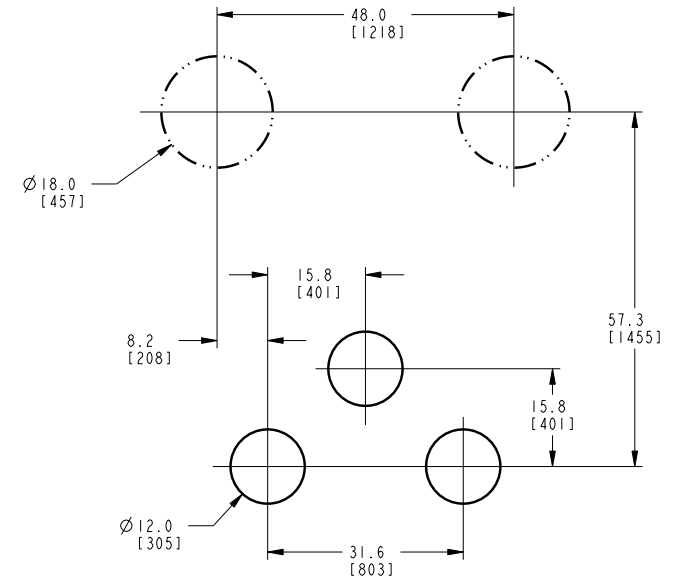
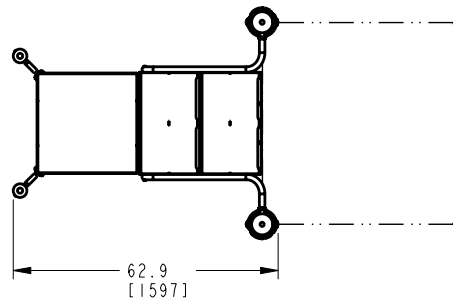
ICON KEY

	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

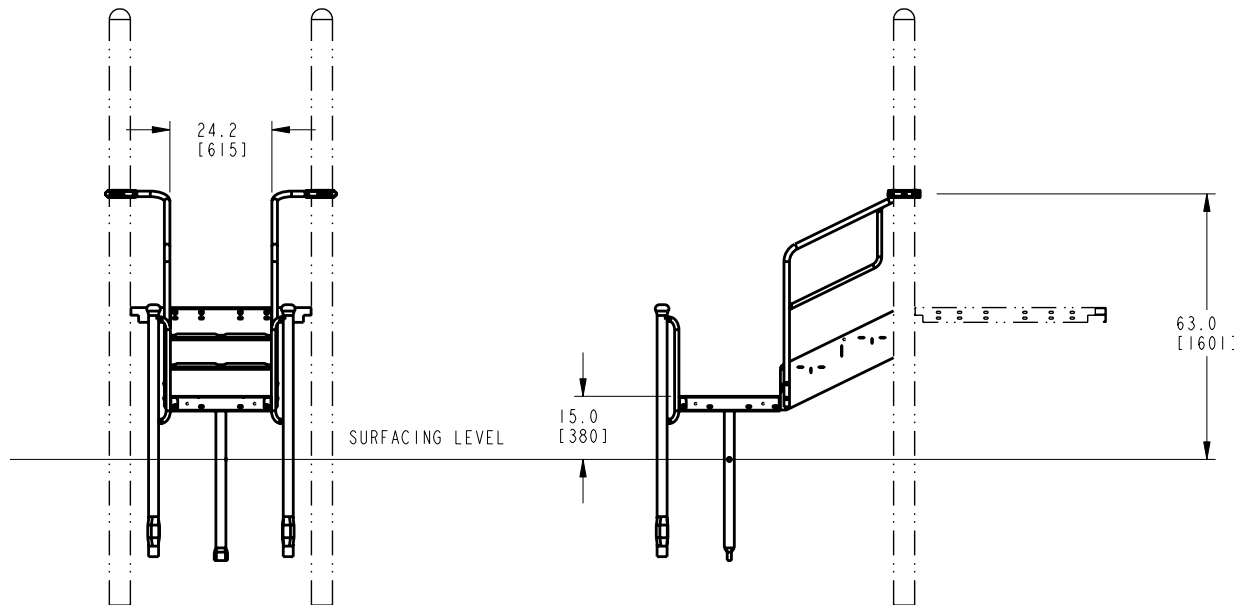
Installation Instructions

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

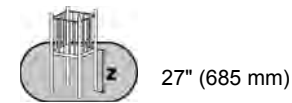
Top View



Footing Diagram



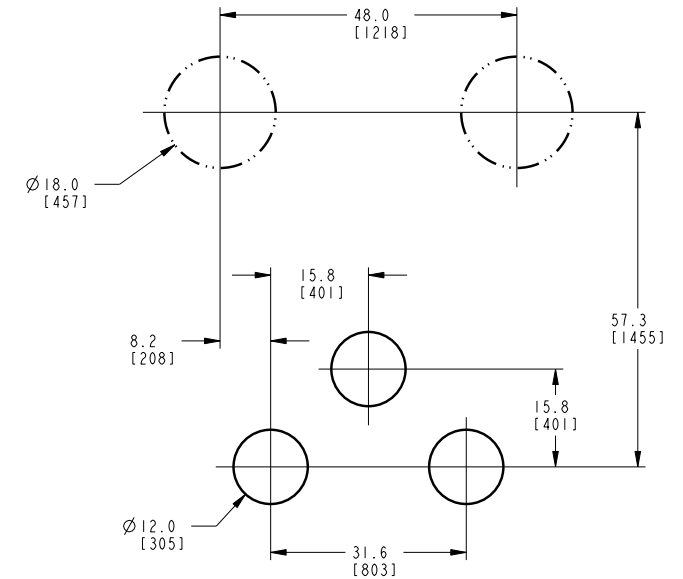
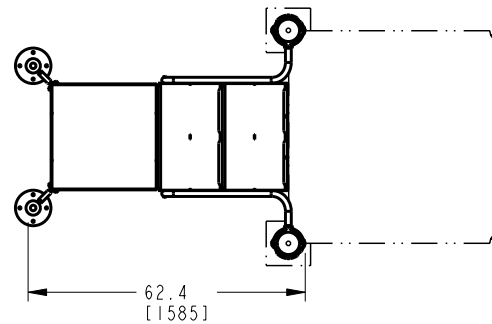
Elevation View
PM2006



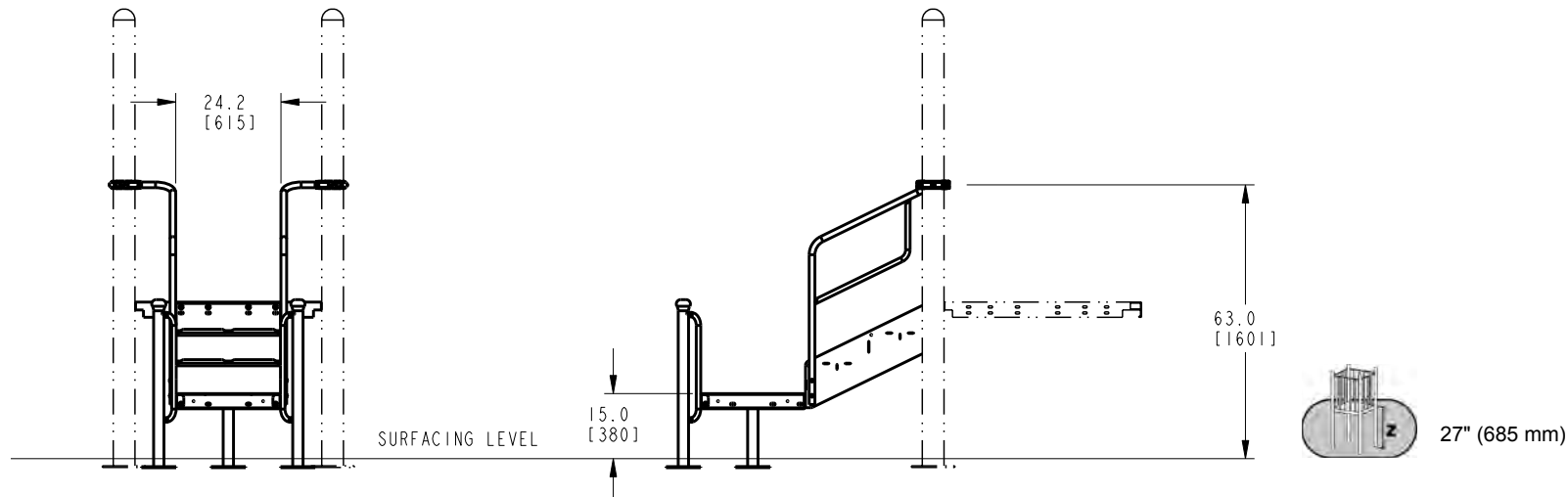
Installation Instructions

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

Top View



Footing Diagram

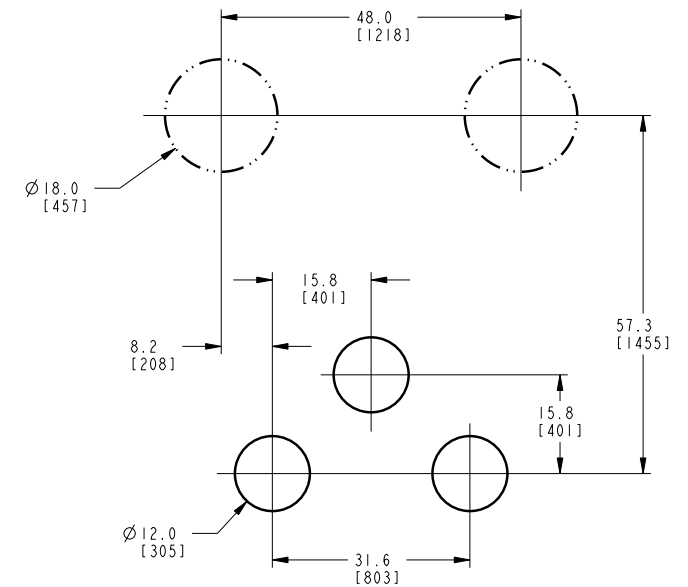
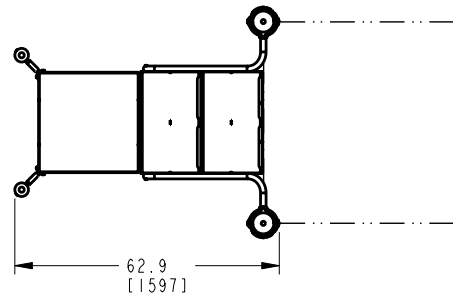


Elevation View
PM2006S

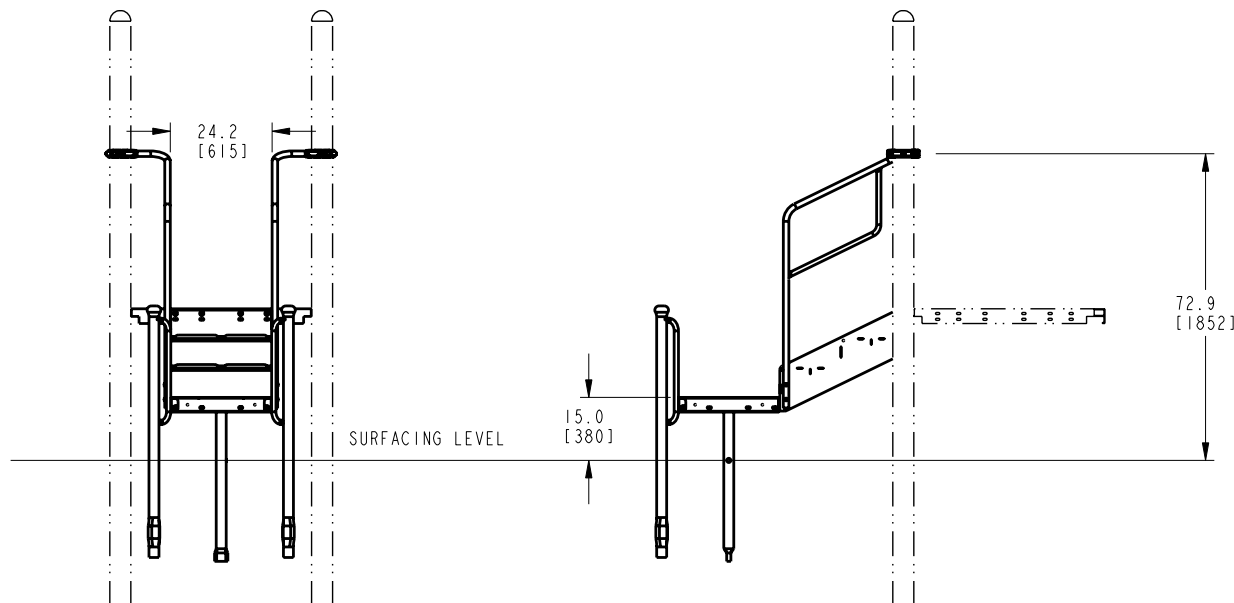
Installation Instructions

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

Top View



Footing Diagram



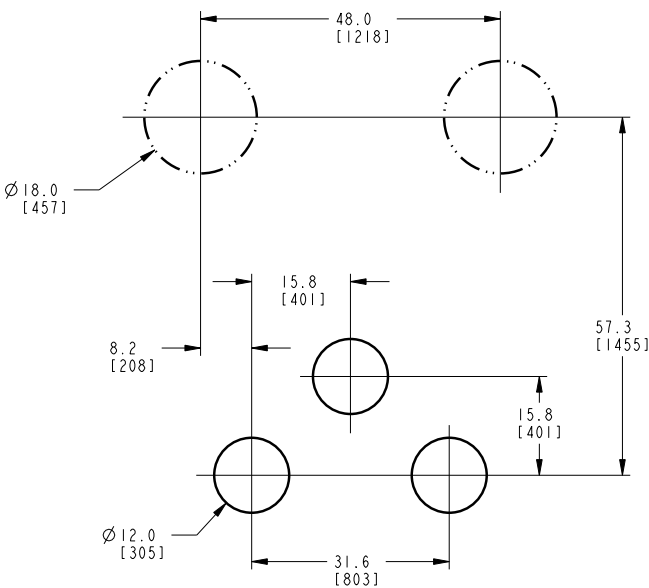
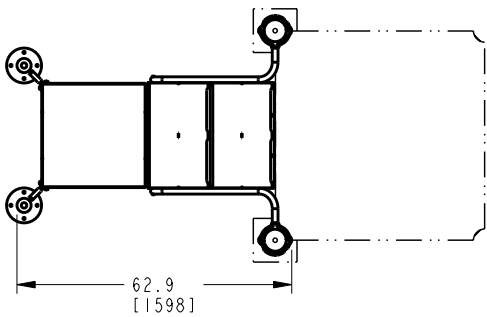
Elevation Views
PM2007



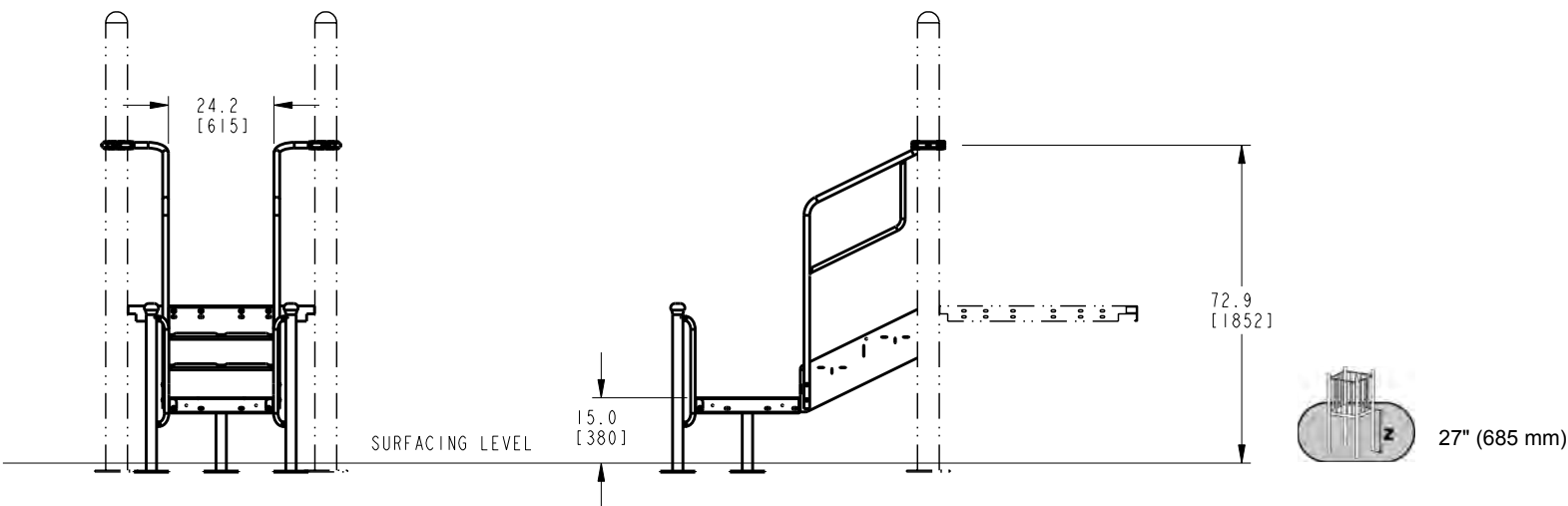
Installation Instructions

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

Top View



Footing Diagram

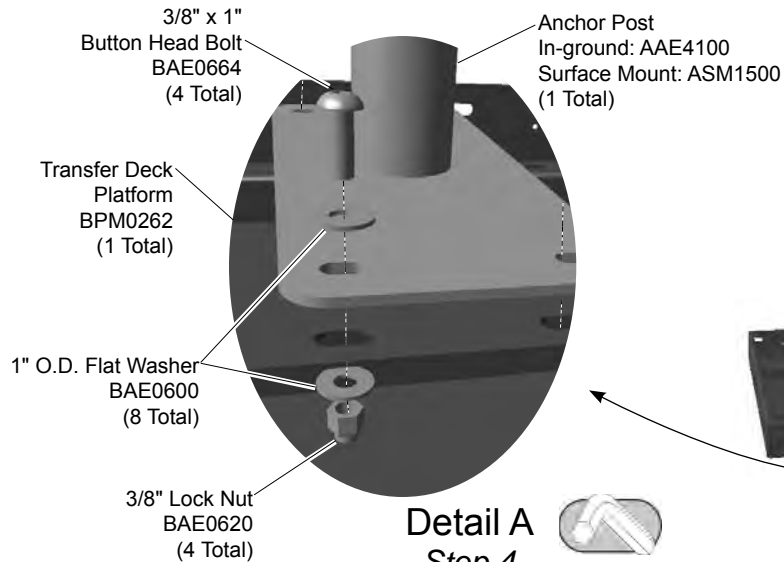


Elevation Views
PM2007S

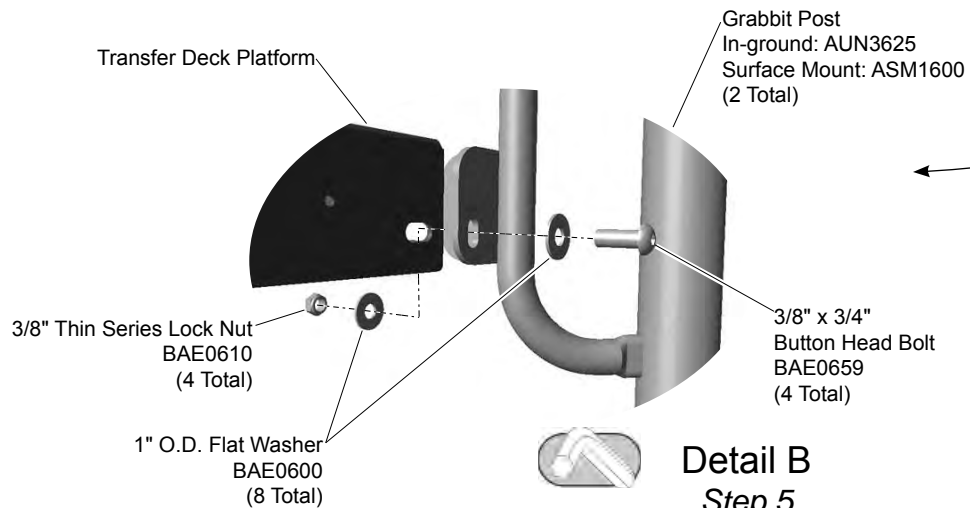


Installation Instructions

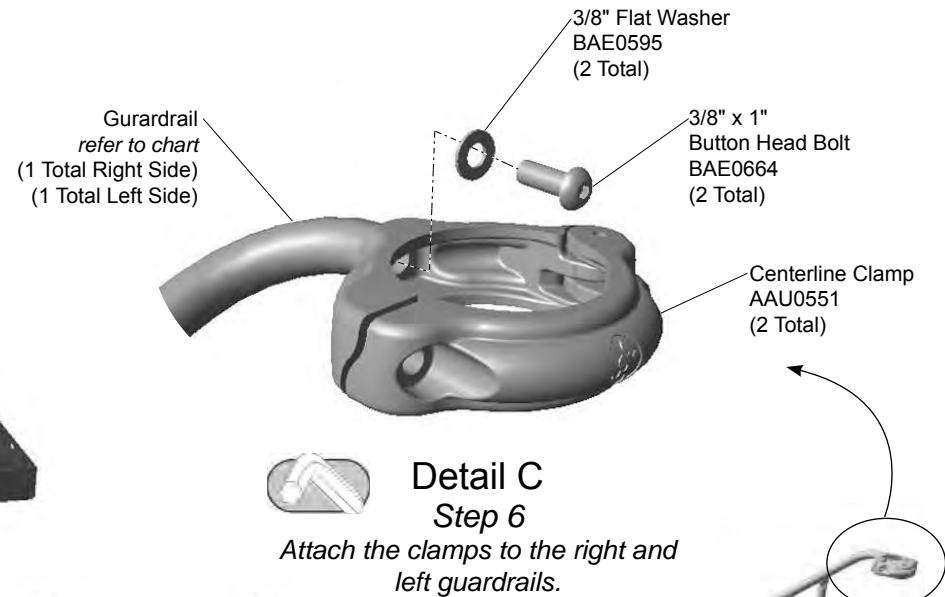
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



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

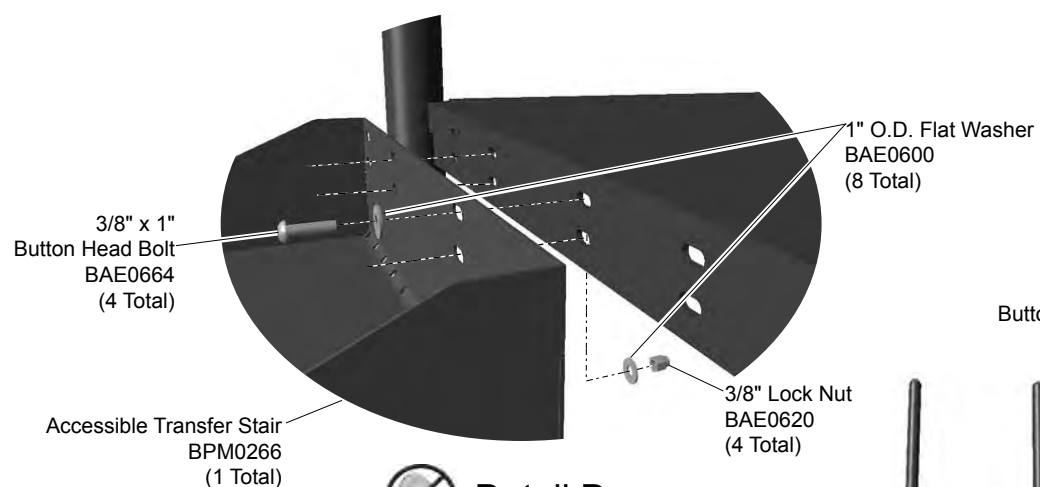


Detail B
Step 5
Attach the grabbit post to the platform.

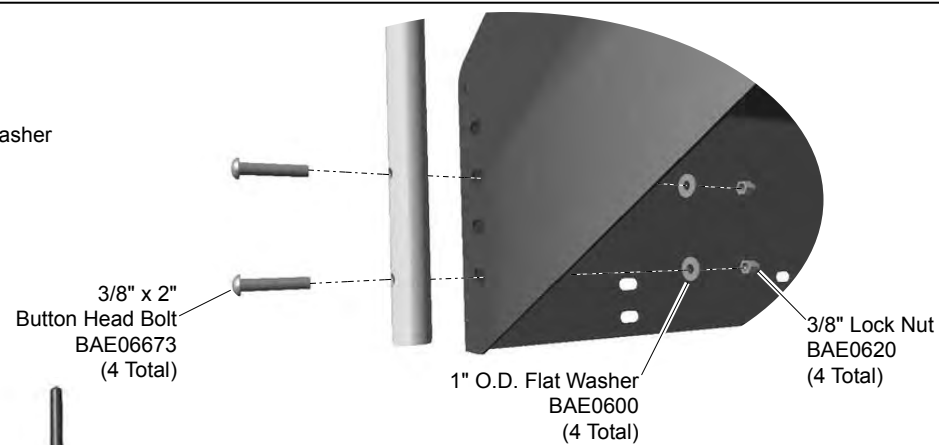


Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056

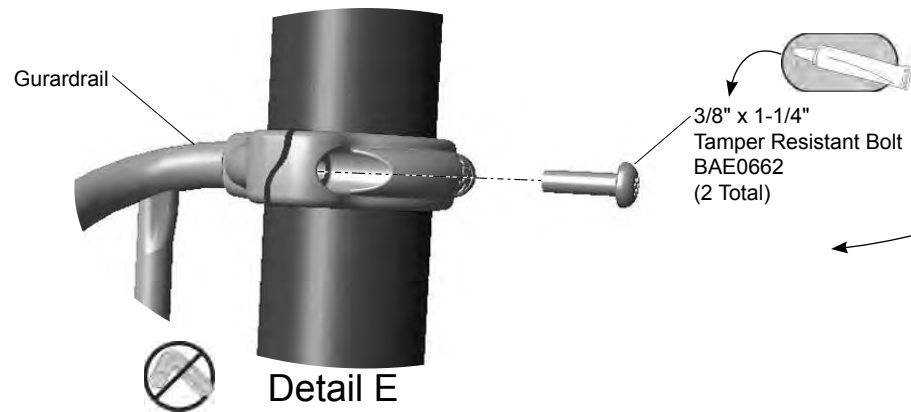
Installation Instructions



Detail D
Step 7
Attach the stair to the deck.



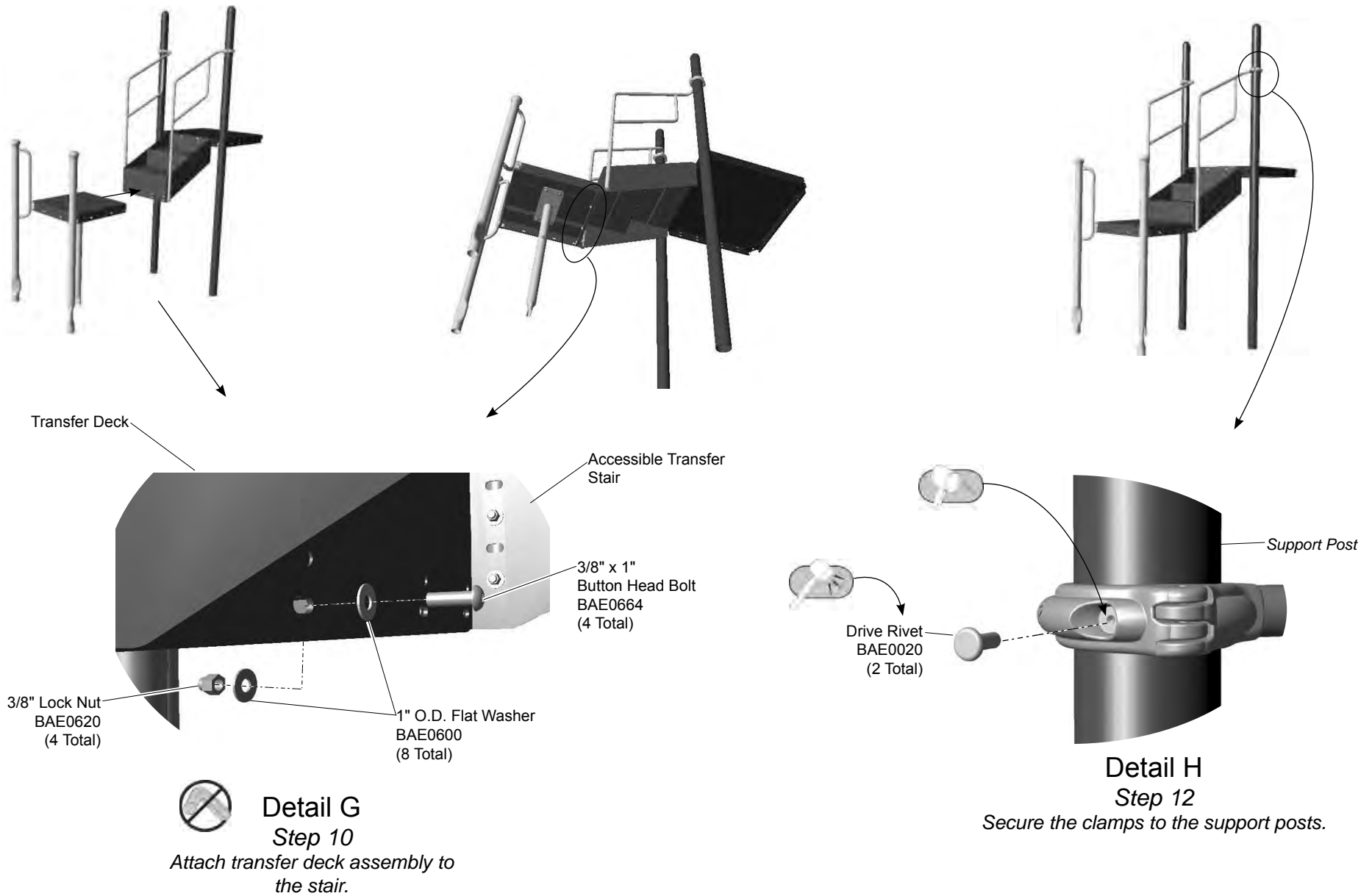
Detail F
Step 9
Attach the guardrails to the stair.



Detail E
Step 8

Attach the guardrails 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: 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" 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




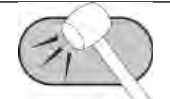



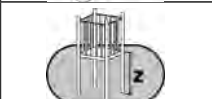
Installation Instructions

Universal Model UN2019

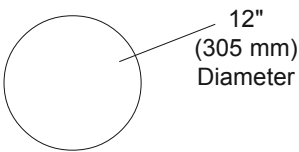
Platform Approach Step

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 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

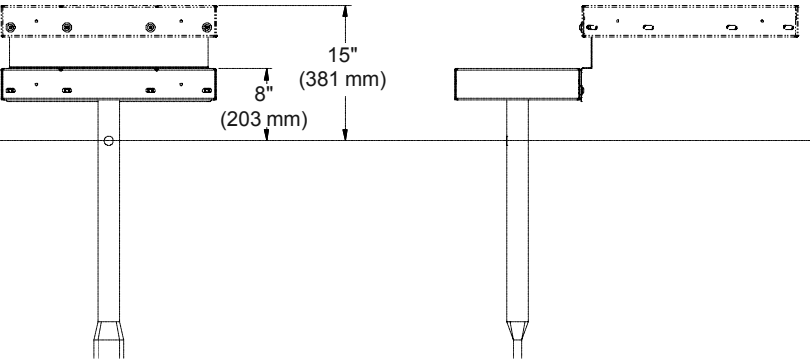
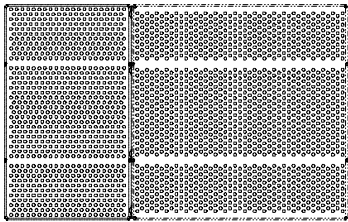
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

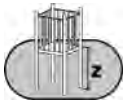


Footing Diagram

Top View



Elevation Views

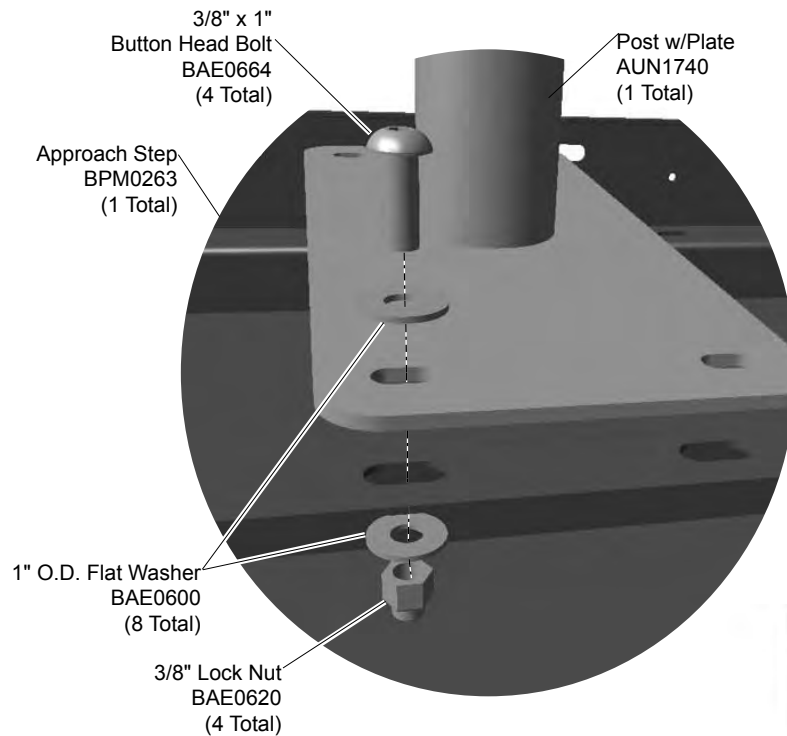


15" (381 mm)



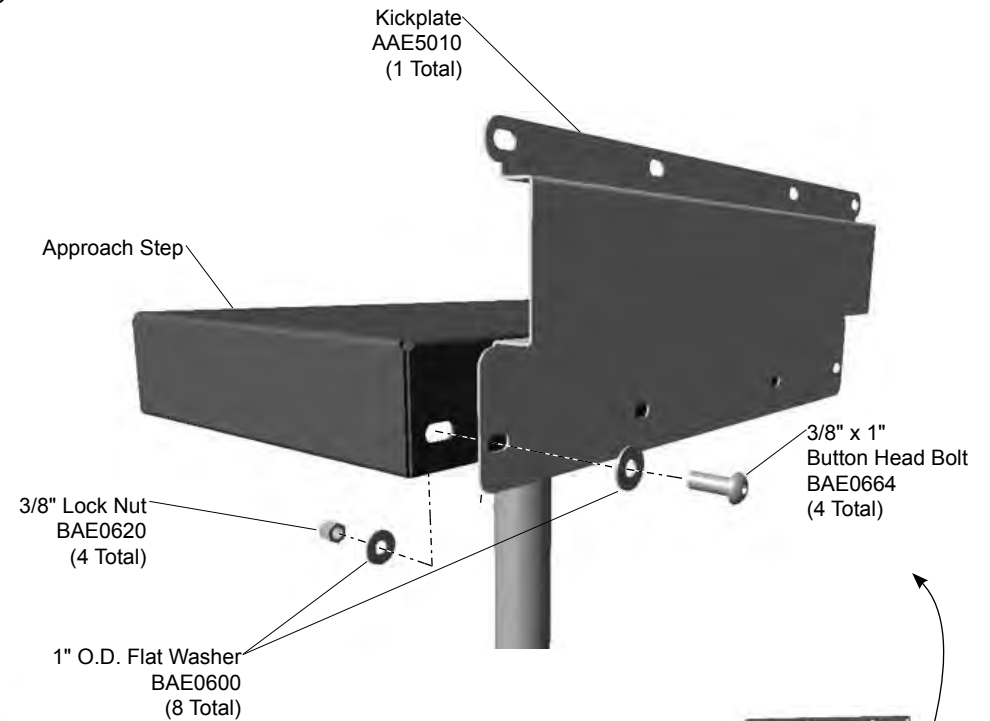
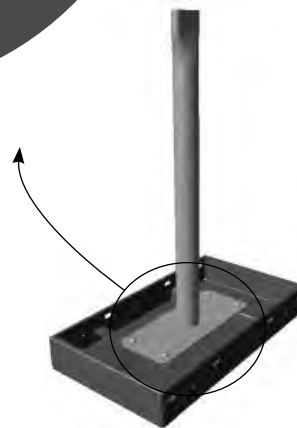
Installation Instructions

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.

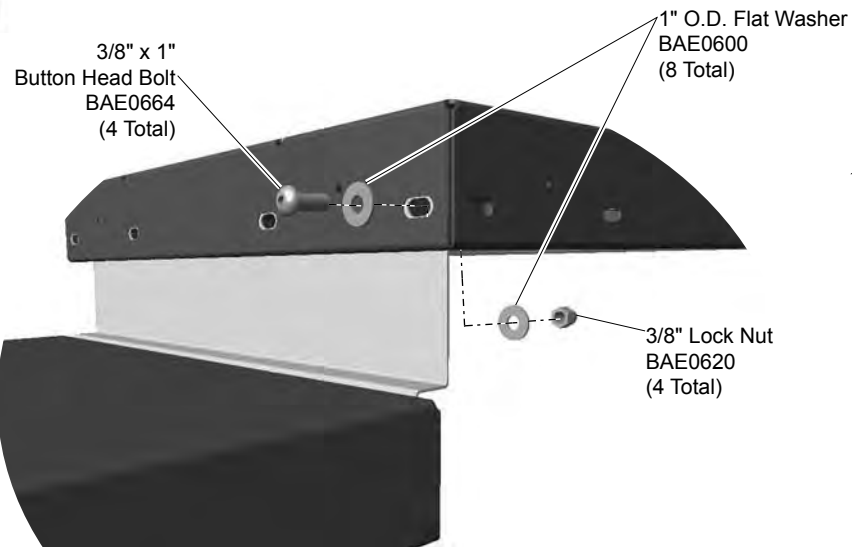
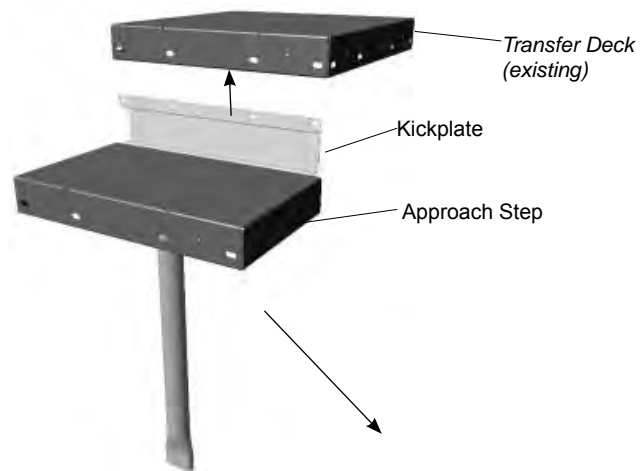


Detail B Step 5

Attach the kickplate to the approach step.



Installation Instructions



Step 6

Attach the kickplate to the transfer deck.



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)

Job Description	Installation Time
Balcony, Slide Entrance, & Canopy assembly	1 hour
Excavate footing holes (in-ground only)	0.5 hour per hole
Section to Section connection	0.25 hour
Slide / Exit Support Post attachment	0.25 hour per post

Installation Instructions




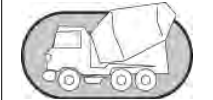


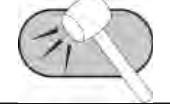
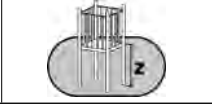
Playmkakers® Models PM3216 and PM3216S

Slither Slide No. 2 (Balcony Attachment)

Installation Preparation

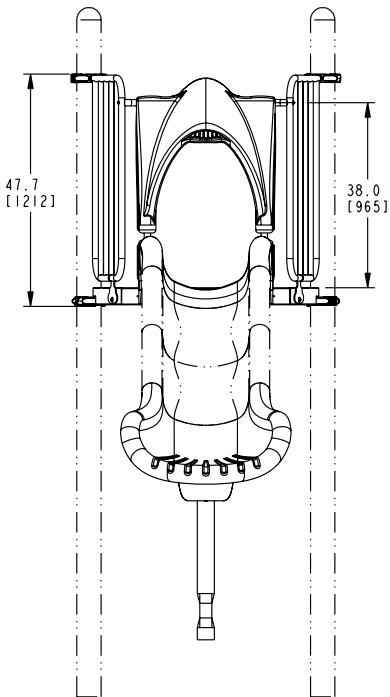
Recommended Crew: Two (2) adults
 Installation Time: refer to the table at left
 Weight (in-ground model): 166.6 lbs. (75,7 kg)
 Weight (surface mount model): 163.8 lbs. (74,4 kg)
 + middle slide sections & supports
 Concrete Required (per in-ground support only):
 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 48": ASTM/CSA: 2-12, EN: 2-14
 60"-108": ASTM/CSA: 5-12, EN: 6-14

ICON KEY

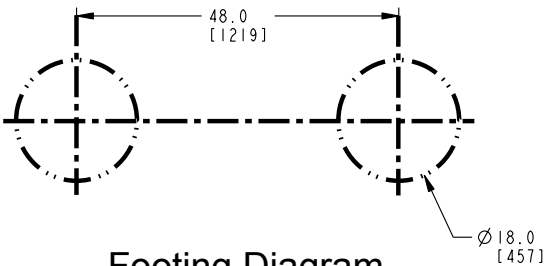
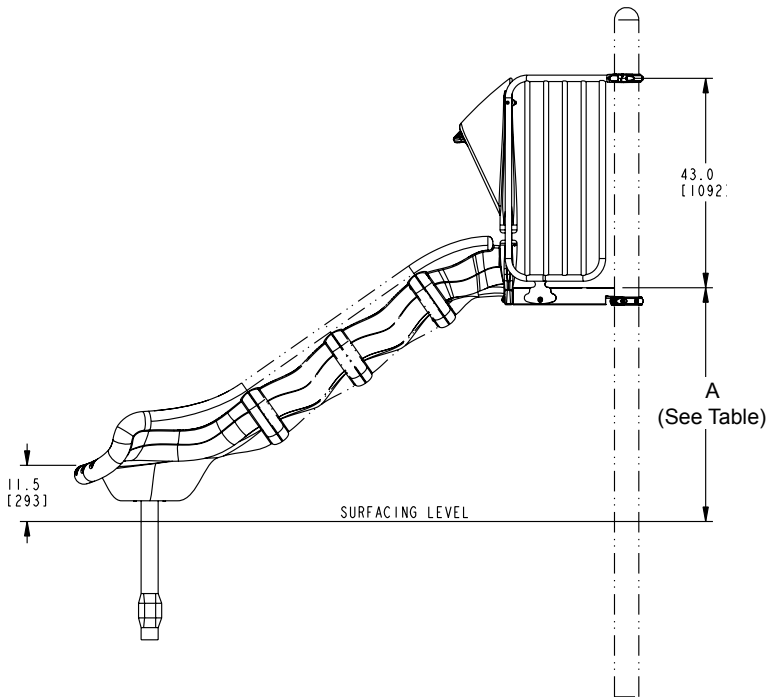
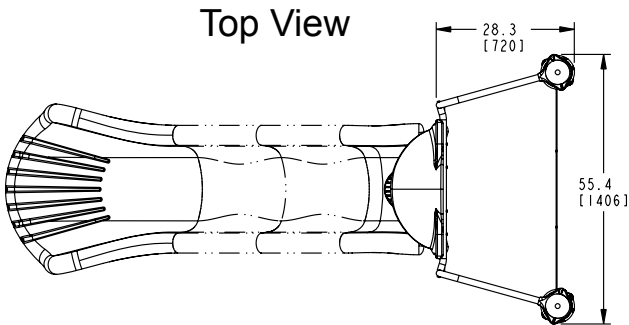
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

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

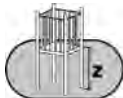


Elevation View
PM3216



Footing Diagram
(Both Models)

Note: The slide shown is a representation only and may not be your slide configuration. Refer to the slide detail drawing accompanying the master composite drawing for configuration and specific numbers of slide sections and support posts.



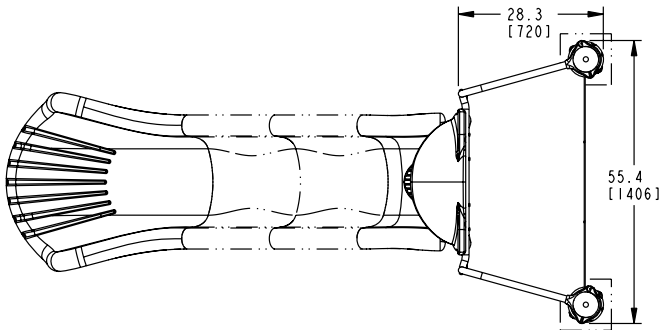
(A) Balcony Height	Critical Fall Height (EN)
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm
84" (2134 mm)	2135 mm
96" (2438 mm)	2440 mm
108" (2743 mm)	2745 mm



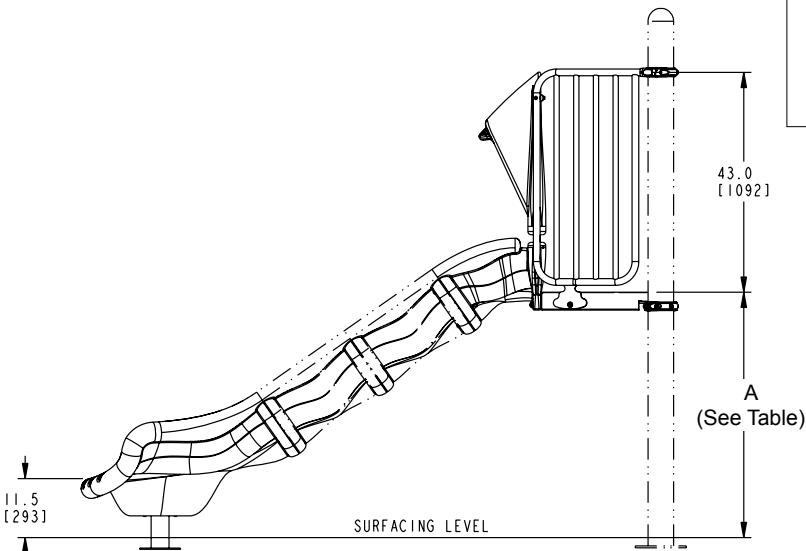
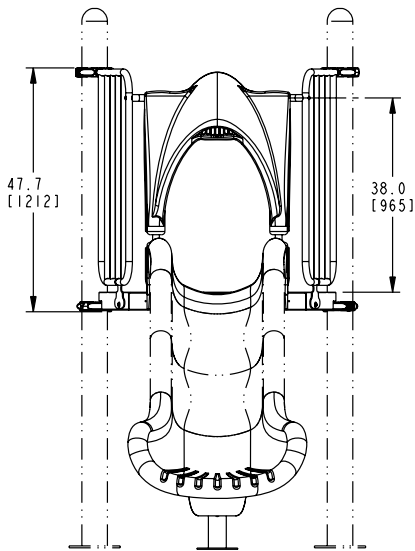
Installation Instructions

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

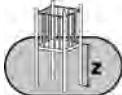
Top View



Note: The slide shown is a representation only and may not be your slide configuration. Refer to the slide detail drawing accompanying the master composite drawing for configuration and specific numbers of slide sections and support posts.



Elevation View
PM3216S



(A) Balcony Height	Critical Fall Height (EN)
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm
84" (2134 mm)	2135 mm
96" (2438 mm)	2440 mm
108" (2743 mm)	2745 mm



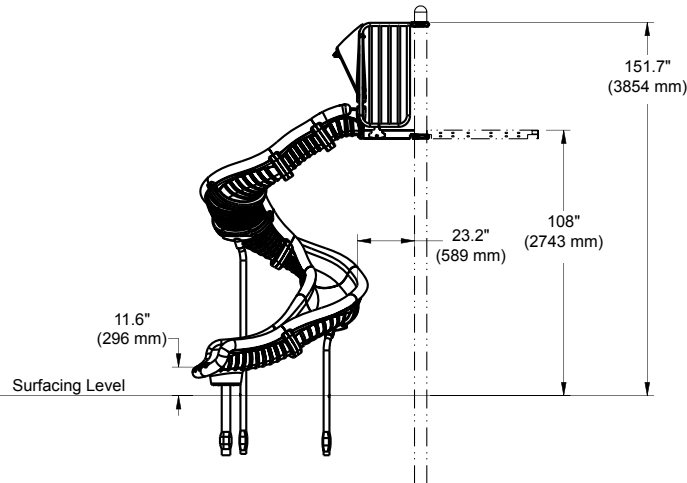
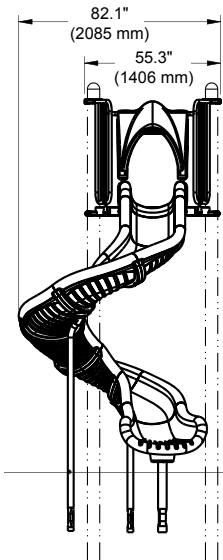
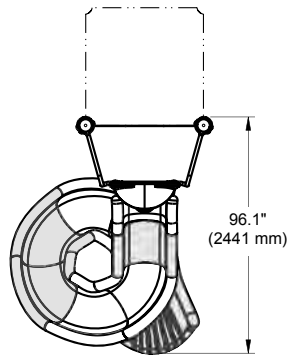
Installation Instructions

Note: The balcony platform for a 360° Spiral slide must be at a height of 108" (2743 mm).

Spiral Slide Section Configuration

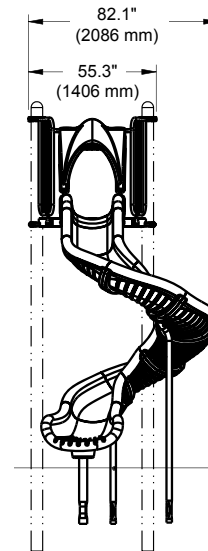
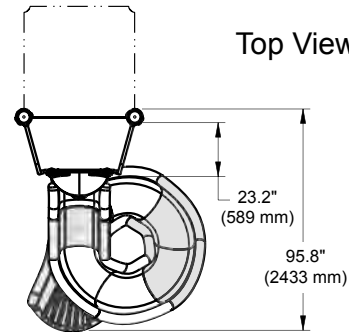
Entrance
Straight
120° Curve
120° Curve
120° Curve
Exit

Top View

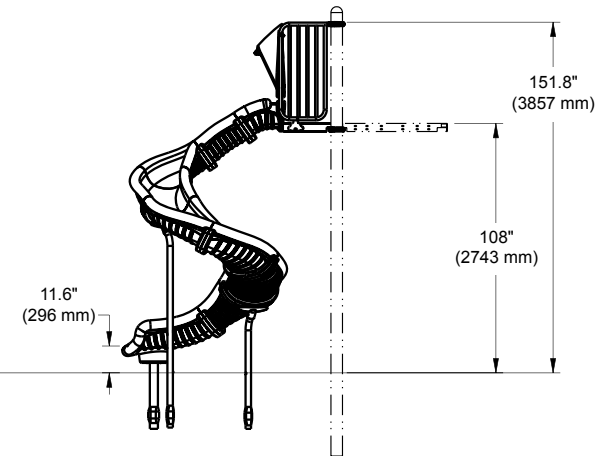


Elevation View - 360° Right

Top View

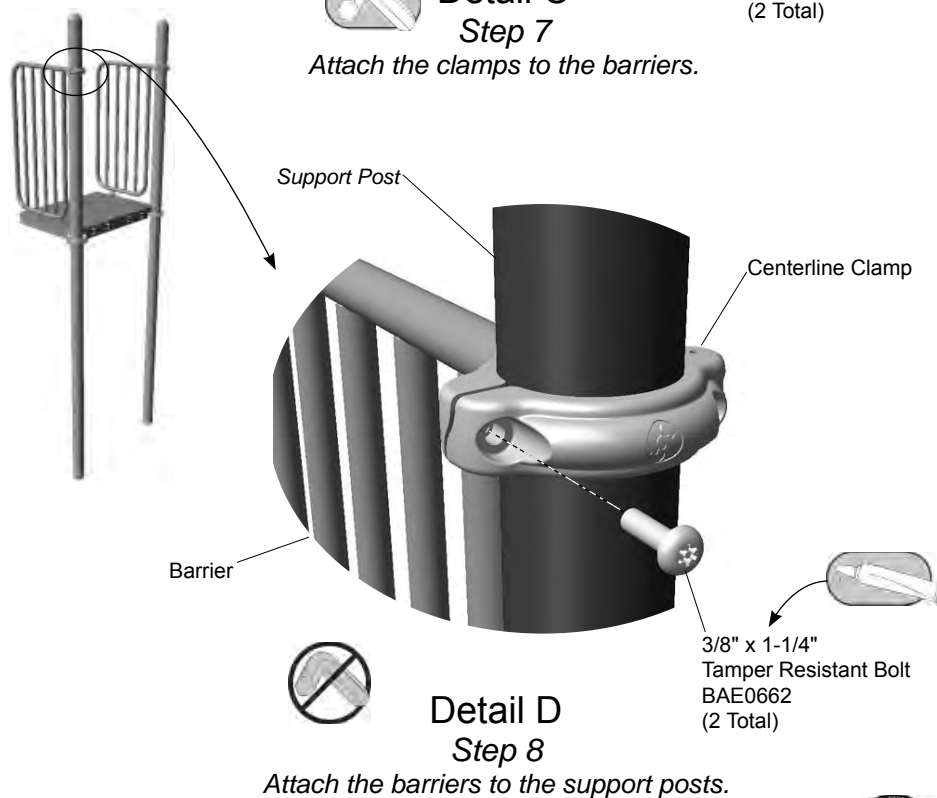
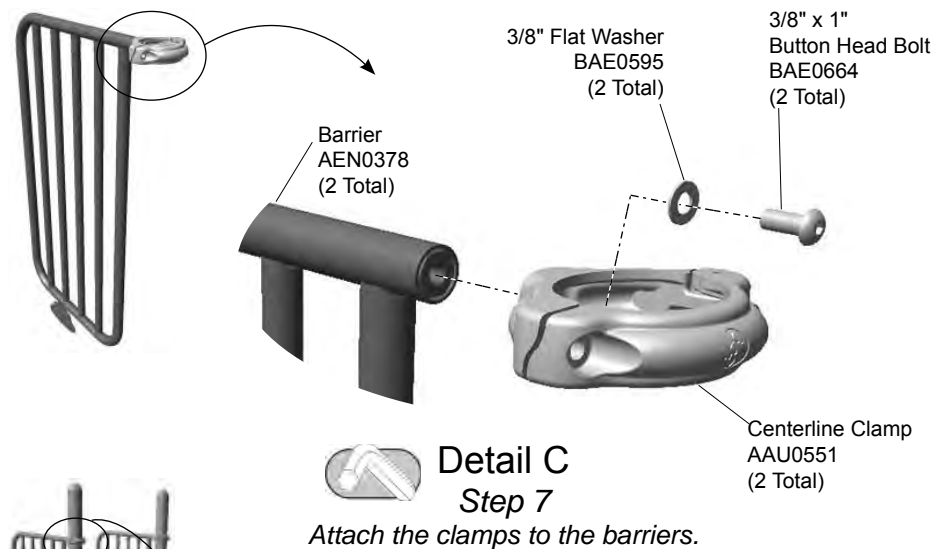
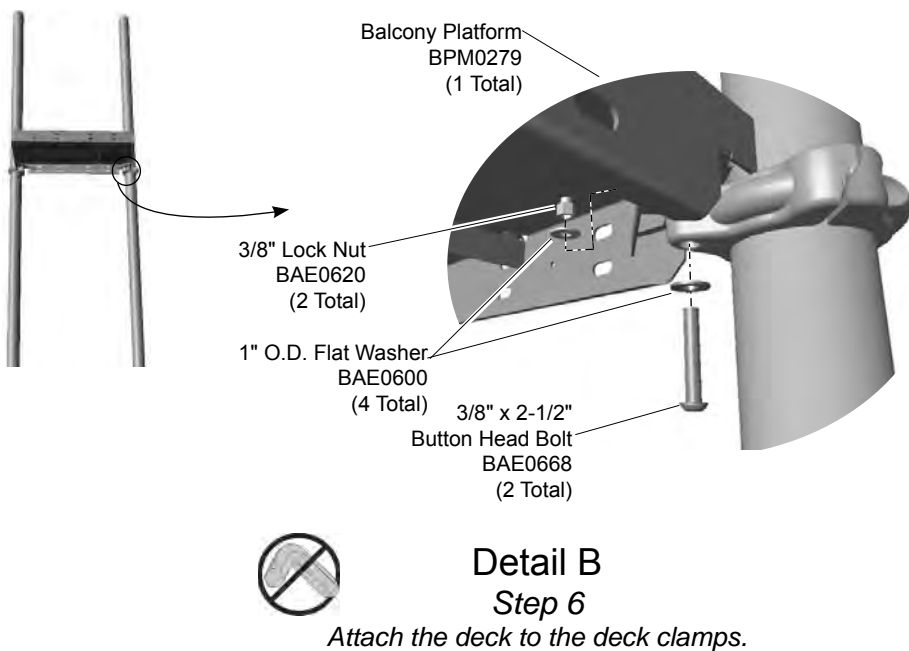
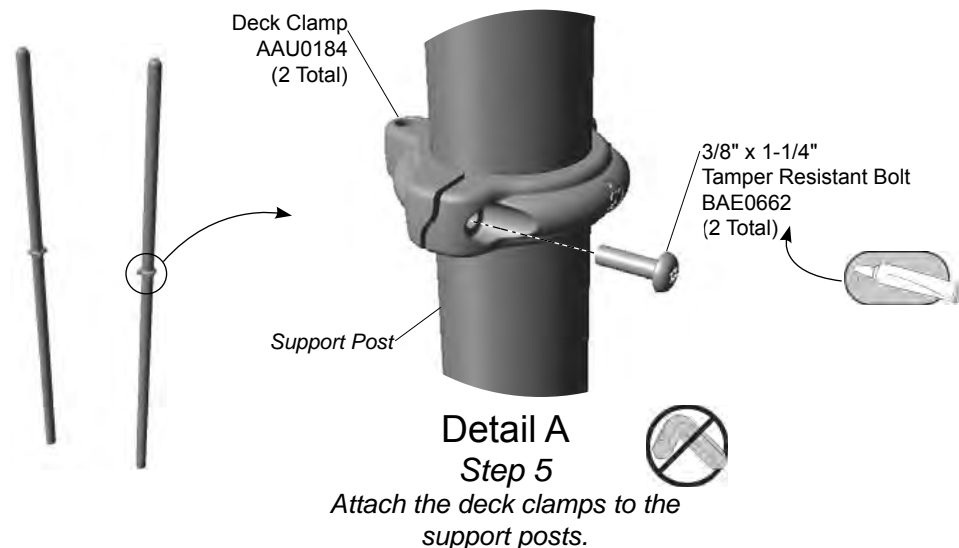


Elevation View - 360° Left

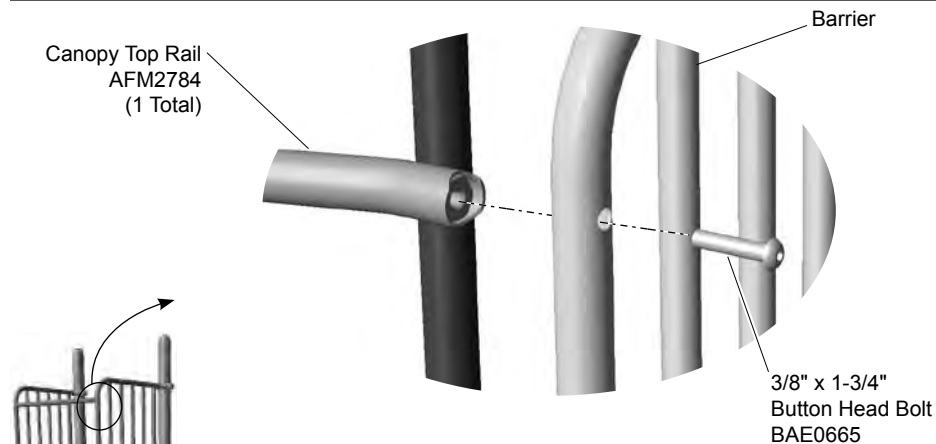


Installation Instructions

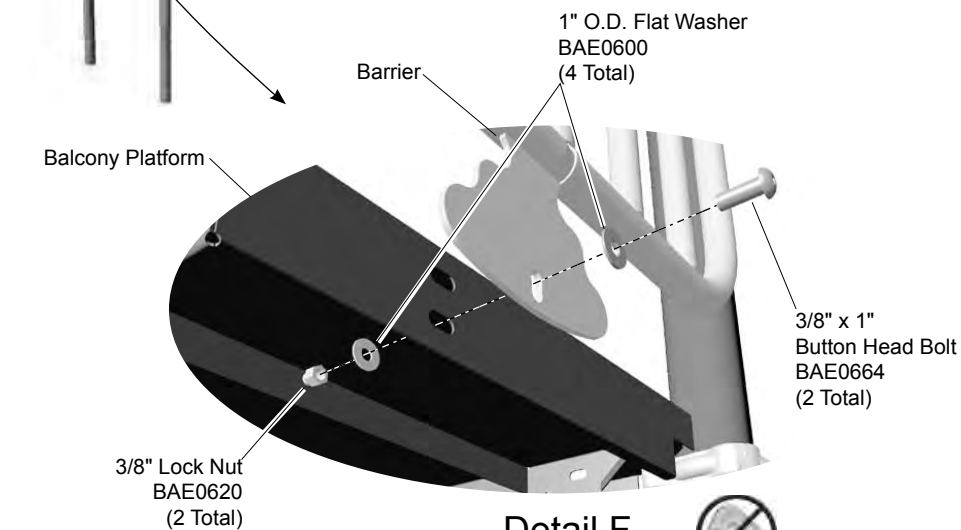
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 11.



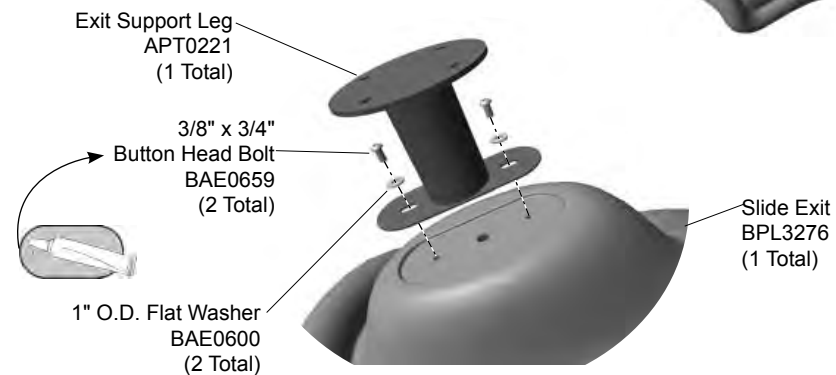
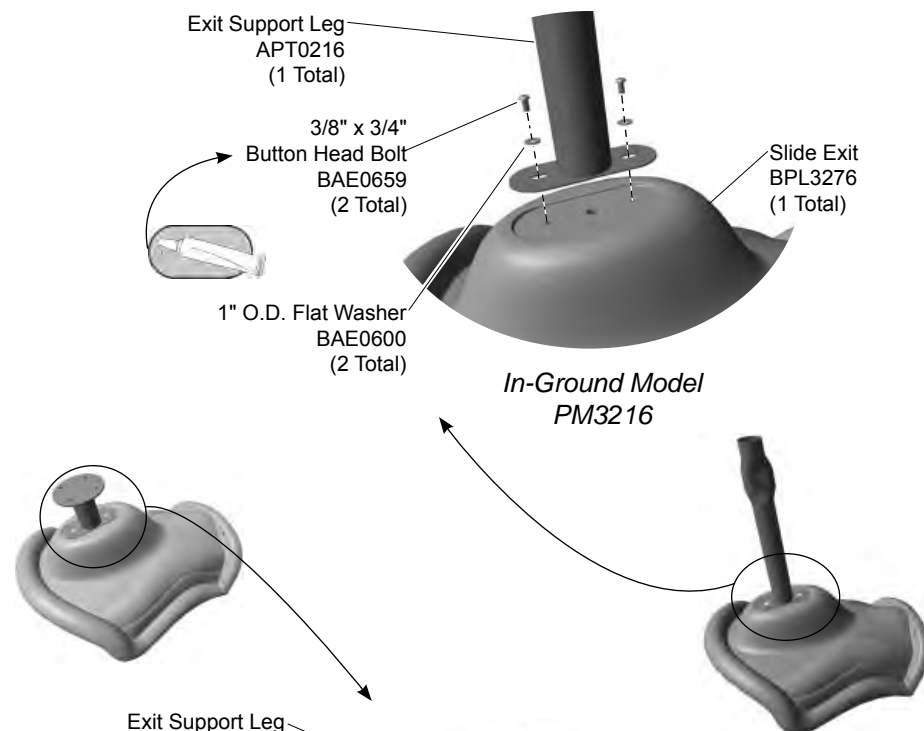
Installation Instructions



Detail E
Step 9
*Attach the canopy top rail
to the barriers.*

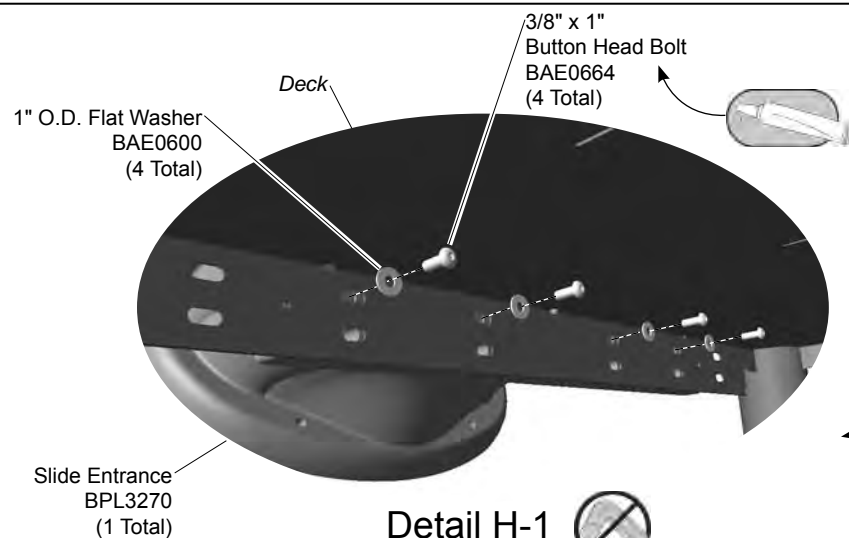


Detail F
Step 10
Attach the barriers to the balcony platform.



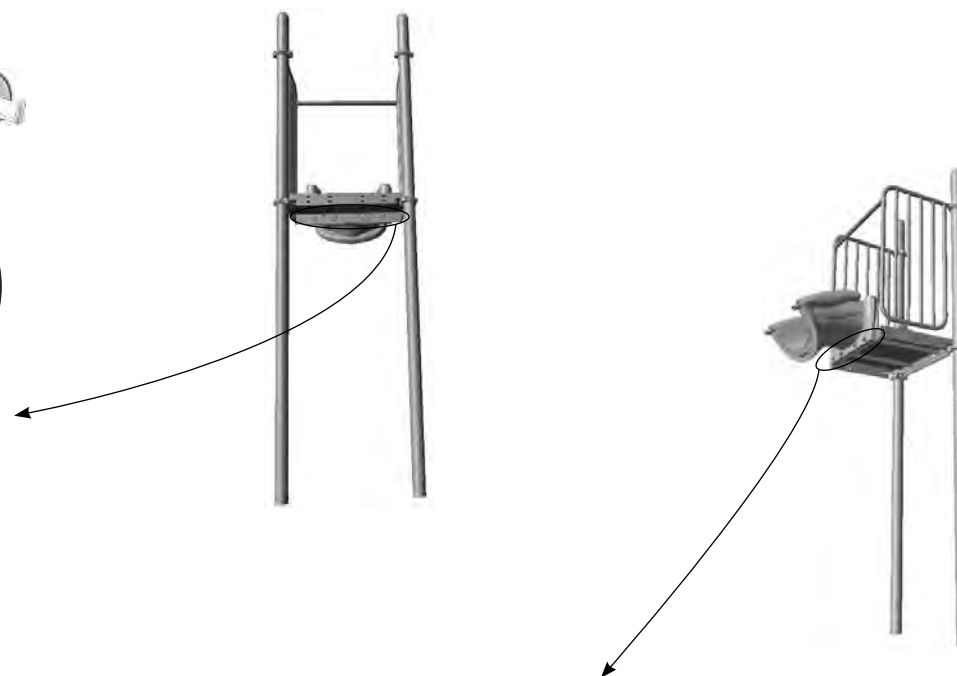
Detail G
Step 11
*Attach the exit support leg to
the slide exit.*

Installation Instructions



Detail H-1
Step 12

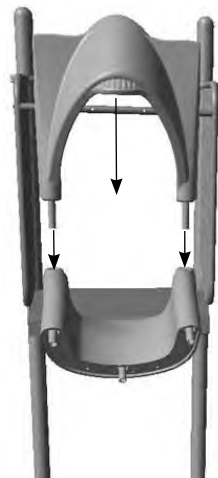
*Attach the slide entrance to the deck
(upper connections)*



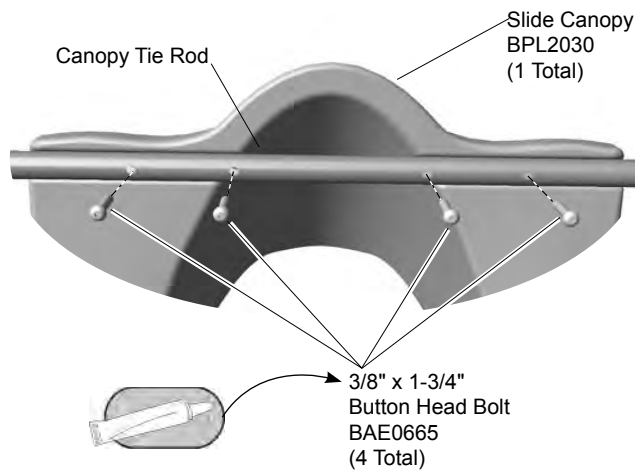
Detail H-2
Step 13

*Attach the slide entrance to the deck
(lower connections)*

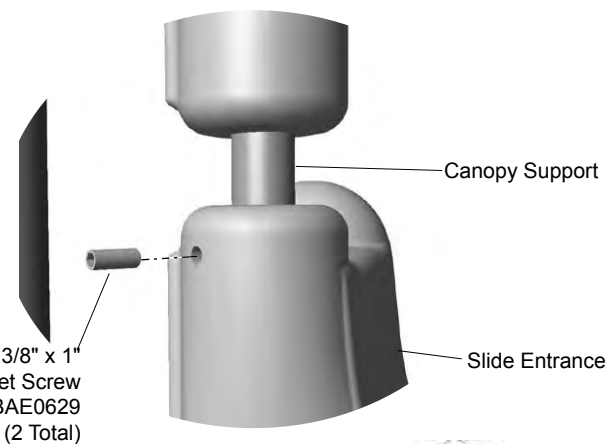
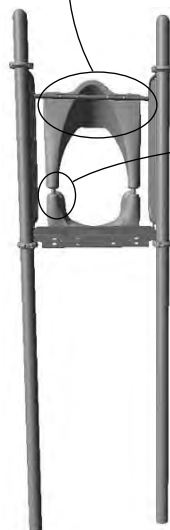
Installation Instructions



Detail J-1
Step 14



Detail J-2
Step 14
Attach the slide canopy to the canopy top rail.



Detail K
Step 15
Secure the slide canopy to the slide entrance.

Installation Instructions

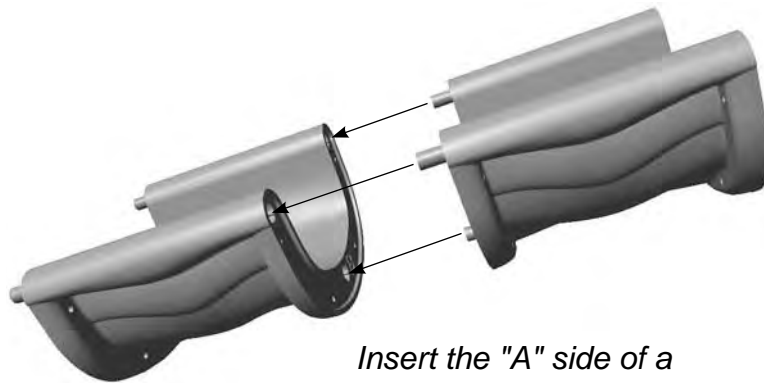


"B" Side

"A" Side

Lay the slide out on the ground in the correct configuration prior to connecting the sections. Start at the top of the slide and work down.

Note: Leave both bottom holes open at the appropriate location for support post placement. Refer to the drawings showing the slide configuration.



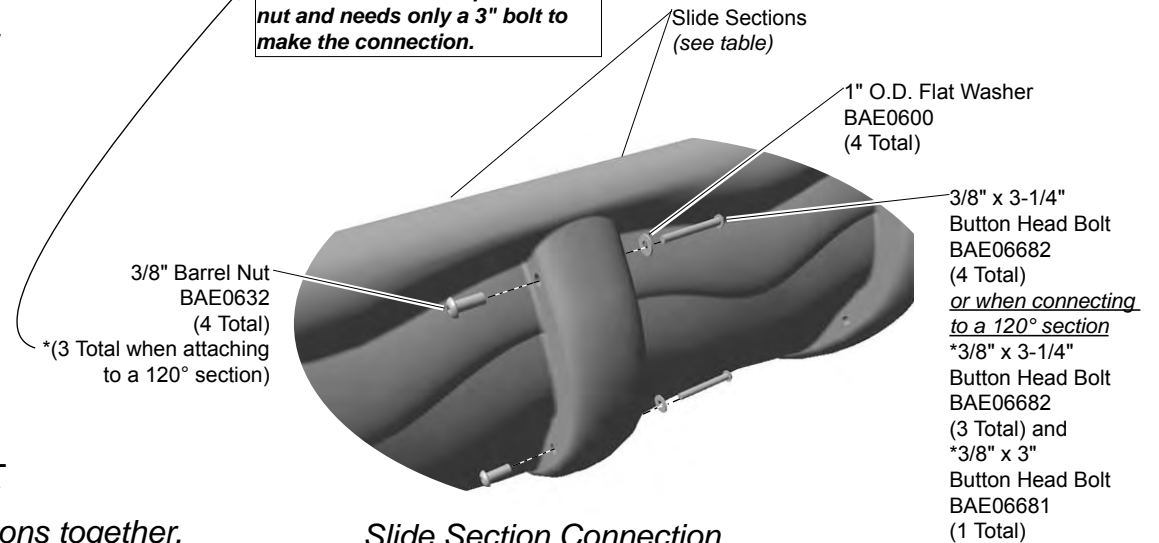
Insert the "A" side of a section into the "B" side of the next section.

Slide Section Orientation

Slide Section	Part Number
Entry	BPL3270
Straight	BPL3271
Right turn	BPL3272
Left turn	BPL3273
Right 120°	BPL3274
Left 120°	BPL3275
Exit	BPL3276
Roller	ASY0254



*The upper inside hole on the 120° section contains a threaded insert that doesn't require a barrel nut and needs only a 3" bolt to make the connection.

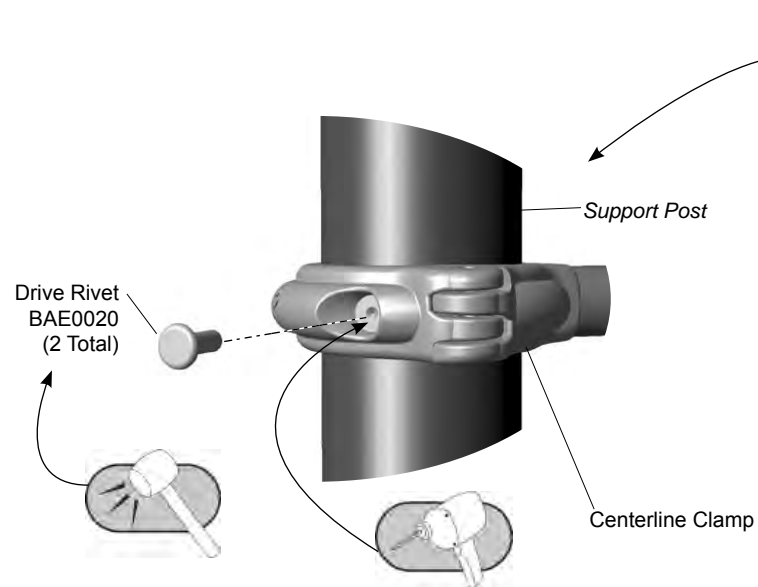
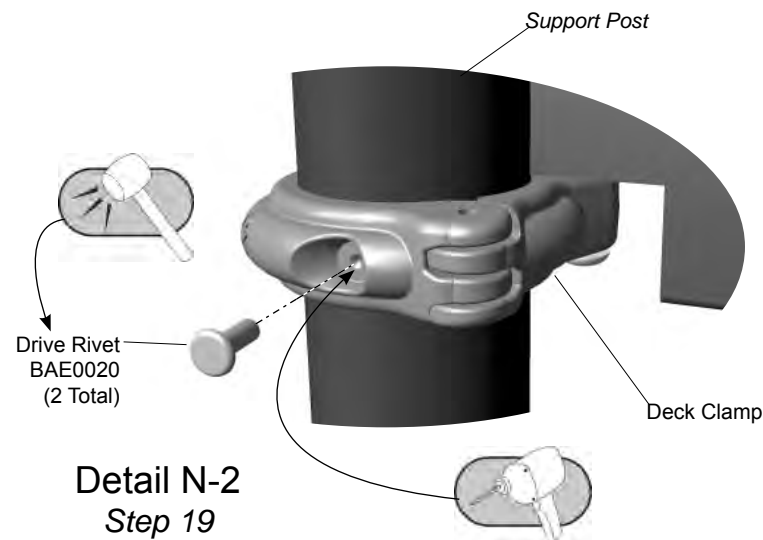
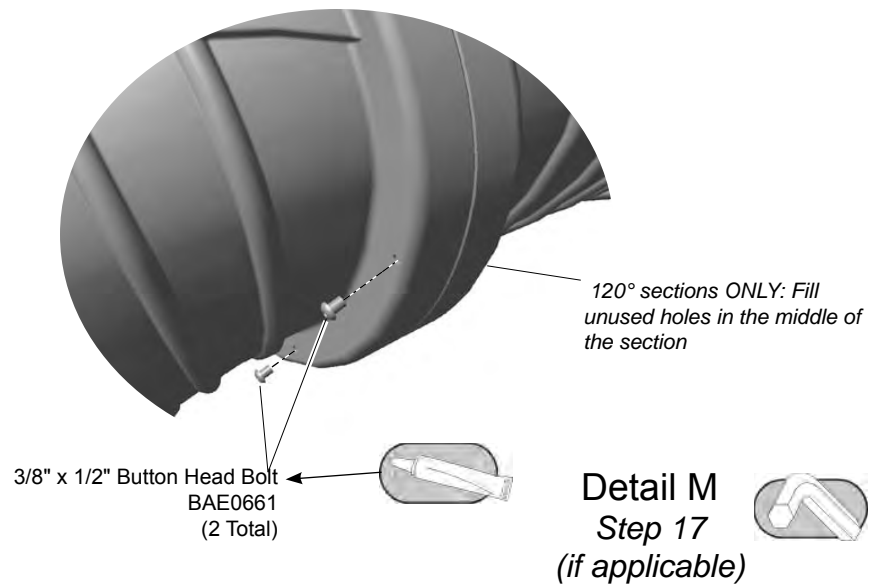


Detail L Step 16

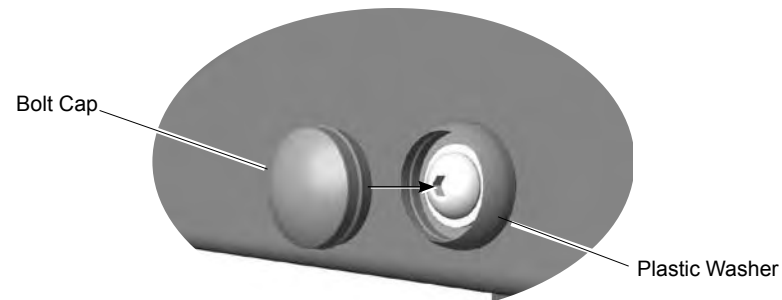
Attach the slide sections together.

Slide Section Connection Reference

Installation Instructions



Detail N-1
Step 19
Secure the clamps to the support posts.



Installation Instructions

This is a composite installation instruction for an in-ground and surface mount slither slide attached to a balcony platform.

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 hole for the in-ground exit support leg as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Step 4: Lay the slide sections out on the ground in the order specified on the master layout diagram.

Important Notes:

- Each slide section has an 'A' and 'B' end. See **Slide Section Orientation**. The 'A' end contains the protruding tubes and should be positioned *facing* toward the slide exit.
- The frame of reference for the curved sections is looking *down* from the deck to the slide exit.
- Assemble the slide from the top down.

Step 5: Attach deck clamps to the support posts. See **Detail A**. Close the clamps around the support posts at 2-3/4" below the desired height of the balcony platform and the slide. The mounting hole should point in from the posts. Using a drop of loctite on the bolt threads, attach as shown. Snug tighten the connections.

Step 6: Attach the balcony platform to the deck clamps. See **Detail B**. Position the cut-away corners of the platform between the posts and on top of the deck clamps, and attach as shown. Support the balcony platform until balcony barriers and slide entrance are attached.

Note: If there will be a kickplate or infill panel attached between the balcony platform and an adjacent deck, install that first to set the height of the balcony before proceeding with the slide assembly.

Step 7: Attach the clamps to the balcony barriers. See **Detail C**. Place a clamp against the end of each barrier top rail and attach as shown. Turn clamps so hinges are on the *inside* of the barrier and fully tighten connections.

Step 8: Attach the barriers to the support posts. See **Detail D**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Close the clamps around the support posts, and using a drop of loctite on the bolt threads, attach as shown. Leave the connections loose for alignment adjustments.

Step 9: Attach the canopy rail to the barriers. See **Detail E**. Place the top rail between the barriers and attach as shown.

Step 10: Attach the barriers to the platform. See **Detail F**. Align the barrier tabs with the platform, and attach as shown. Leave connections loose.

Attach the exit support leg to the slide exit.

Step 11: Attach the exit support leg to slide exit. See **Detail G**. Place the exit support leg into the indentation under the slide exit. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide entrance to the balcony platform.

Step 12: Attach the slide entrance to the balcony platform. See **Detail H-1**. Position the slide entrance against the platform and align holes in the slide with those in the platform. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the platform and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the platform.* Leave connections loose for alignment adjustments.

Step 13: Make the *lower* attachments to the slide and platform. See **Detail H-2**. Make the *lower* attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Secure the canopy to the barriers and slide.

Step 14: Position and attach the canopy. See **Details J-1 and J-2**. Place the canopy above the slide entrance and slide the canopy supports into the sockets in the slide. 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.



Installation Instructions

Step 15: Secure the lower canopy supports to the slide. See **Detail K**. 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.

Assemble the slide.

Lay the slide sections out on the ground in the correct configuration and orientation. Place the support posts beside the appropriate joint. Refer to the master drawing for the configuration and order of sections.

Step 16: Attach the slide sections together. See **Detail L**. Starting at the slide entrance, select the first slide section and the appropriate hardware. Fit the first section into the entry section, and attach as shown. Reference the **Slide Section Connection Reference** for all section to section connections except when attaching a support post. If a support post will be attached to the joint, leave the bottom (2) two holes open. Block or brace the slide while assembling the remaining sections. Snug tighten the connections.

Important Note: Sections that attach to a 120° section will attach as shown in the **Slide Section Connection Reference** except that the **upper inside hole on the "B" side of the 120° section contains a threaded insert and will not require the barrel nut**.

Support Post Note: For slides attached to decks 60 in. or higher, support posts will be utilized to help support the slide. **Generally, a support post will be attached at the end of every three sections down the length of the slide starting with the slide entrance.** Because of different slide configurations, you must reference the master layout drawing for the location and number of support posts that accompany your slide. The 120° sections have a middle seam that can accept a support post in some configurations. (See the installation instructions for the support post)

Step 17: (if applicable) Fill in any open lower holes under the middle of the 120° sections. See **Detail M**. Select 3/8" x 1/2" button head bolts. Apply a drop of loctite to the bolt threads and thread each bolt into an open hole. Fully tighten the connections.

Final Details.

Step 18: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. There should not be any measurable gaps between sections. 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**.

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

60" - 108" Slides: The 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.

Torque specifications :

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

Set Screws: Snug tighten and tighten an additional turn.

Step 19: Install drive rivets. See **Details N-1 and N-2**. 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 20: Select the plastic bolt caps and press into the plastic washers. See **Details H-2 and O**. The bolt caps install more easily when they are warm.

Step 21: Apply the hood string entanglement warning label to the equipment at eye level.

PM - SLITHER SLIDE NO. 2 BALCONY ENTRY / EXIT - PM3216 (IN- GROUND)

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0378	BARRIER - 22.35" x 46.94" BALCONY	2
AFM2784	FAB METAL - 1.315" O.D. x 34.09" w/2 BENDS & INSERTS	1
APT0216	POST - 28.80" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	22
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	4
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	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	6
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL3270	SLIDE - SEGMENTED ENTRANCE	1
BPL3276	SLIDE - SEGMENTED EXIT	1
BPM0279	PLATFORM - 46.34" x 23.25" x 3.50" BALCONY	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM - SLITHER SLIDE NO. 2 ENTRY / EXIT - PM3216S (SURFACE MOUNT)

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0378	BARRIER - 22.35" x 46.94" BALCONY	2
AFM2784	FAB METAL - 1.315" O.D. x 34.09" w/2 BENDS & INSERTS	1
APT0221	POST - 6.80" 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	6
BAE0600	WASHER - 1" O.D. FLAT	22
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	4
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	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	6
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL3270	SLIDE - SEGMENTED ENTRANCE	1
BPL3276	SLIDE - SEGMENTED EXIT	1
BPM0279	PLATFORM - 46.34" x 23.25" x 3.50" BALCONY	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



UN - SLITHER SLIDE STRAIGHT SECTION - UN3207

PART NO.	DESCRIPTION	QTY.
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BPL3271	SLIDE - SEGMENTED STRAIGHT	1

UN - SLITHER SLIDE RIGHT SECTION - UN3208

PART NO.	DESCRIPTION	QTY.
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BPL3272	SLIDE - SEGMENTED RIGHT	1

UN - SLITHER SLIDE LEFT SECTION - UN3209

PART NO.	DESCRIPTION	QTY.
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BPL3273	SLIDE - SEGMENTED LEFT	1

UN - SLITHER SLIDE 120° RIGHT SECTION - ZZUN3217

PART NO.	DESCRIPTION	QTY.
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	3
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	1
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	3
BPL3274	SLIDE - 120 DEGREE RIGHT TURN	1

UN - SLITHER SLIDE 120° LEFT SECTION - ZZUN3218

PART NO.	DESCRIPTION	QTY.
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	3
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	1
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	3
BPL3275	SLIDE - 120 DEGREE LEFT TURN	1

UN - SLITHER SLIDE ROLLER SECTION - ZZUN3219

PART NO.	DESCRIPTION	QTY.
ASY0254	SLIDE - SEGMENTED ROLLER SLIDE	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0632	NUT - 3/8"-16 x 1.25" BARREL w/PATCH	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4





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

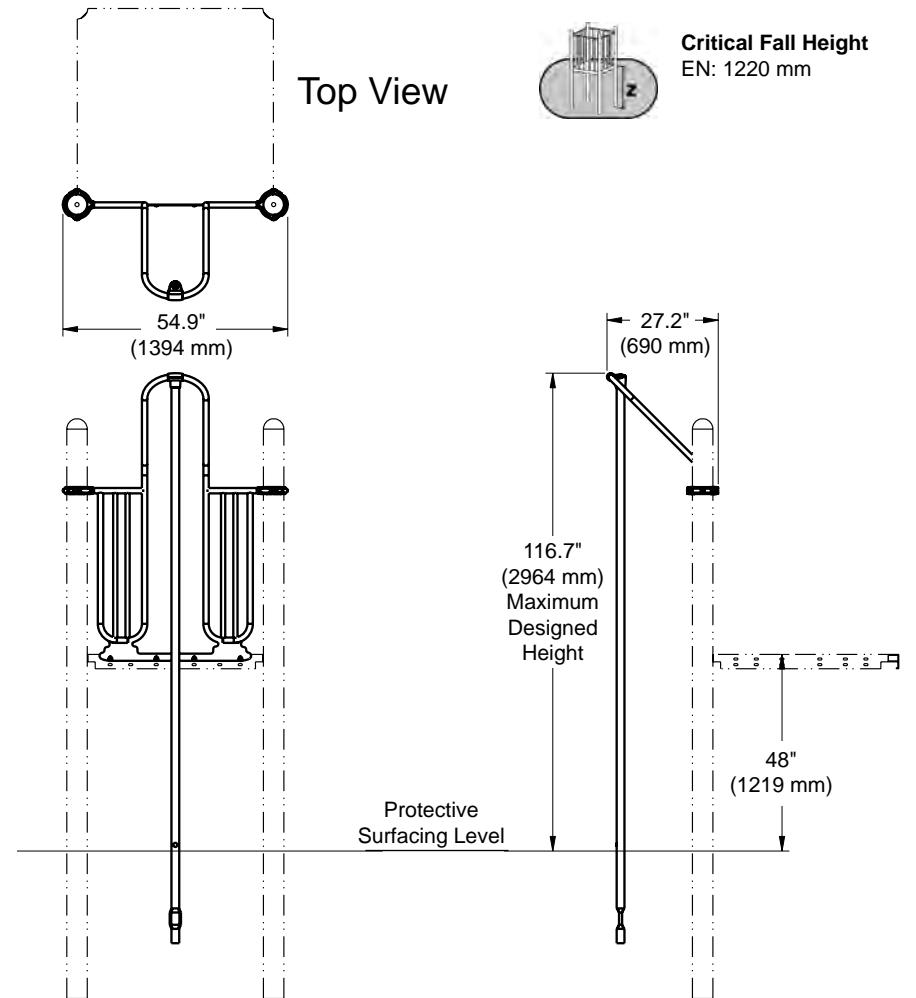
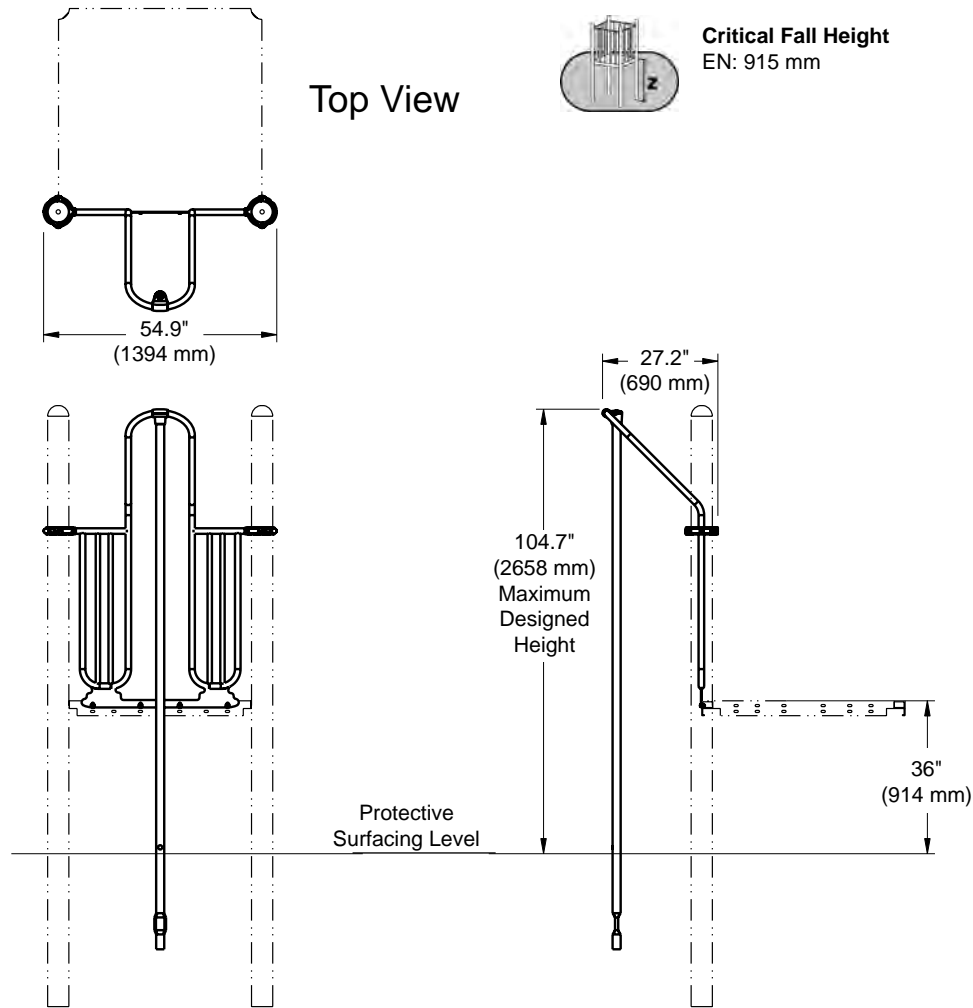
Installation Preparation

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

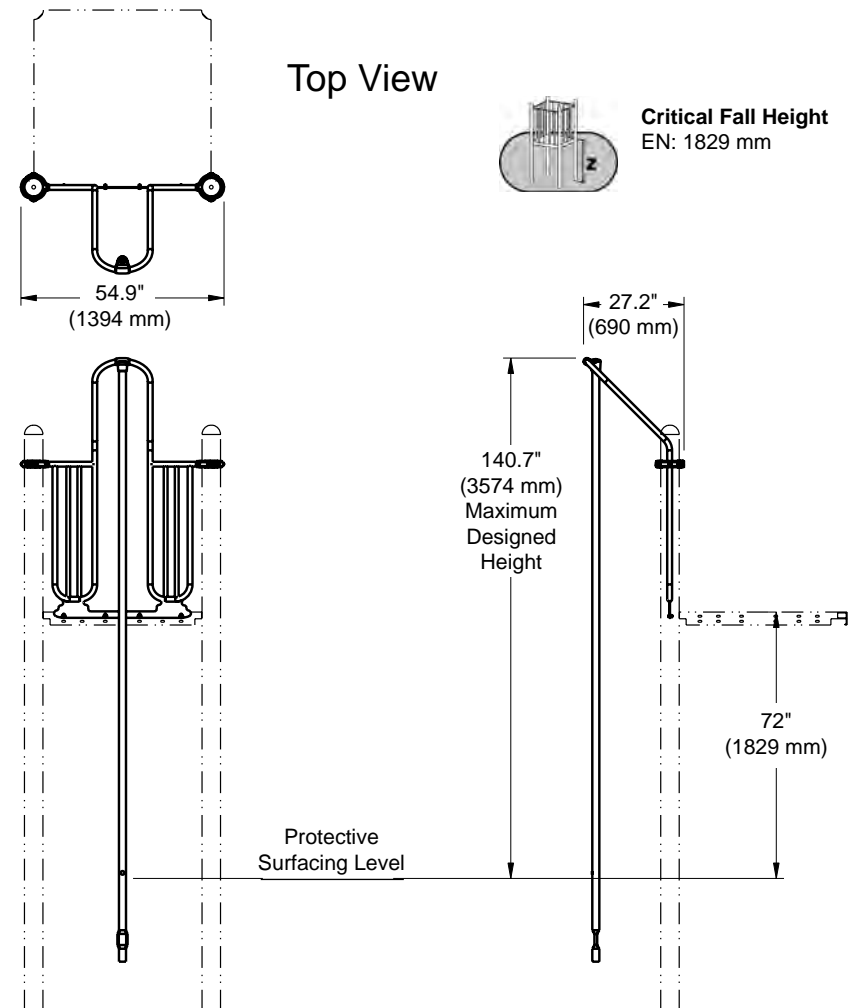
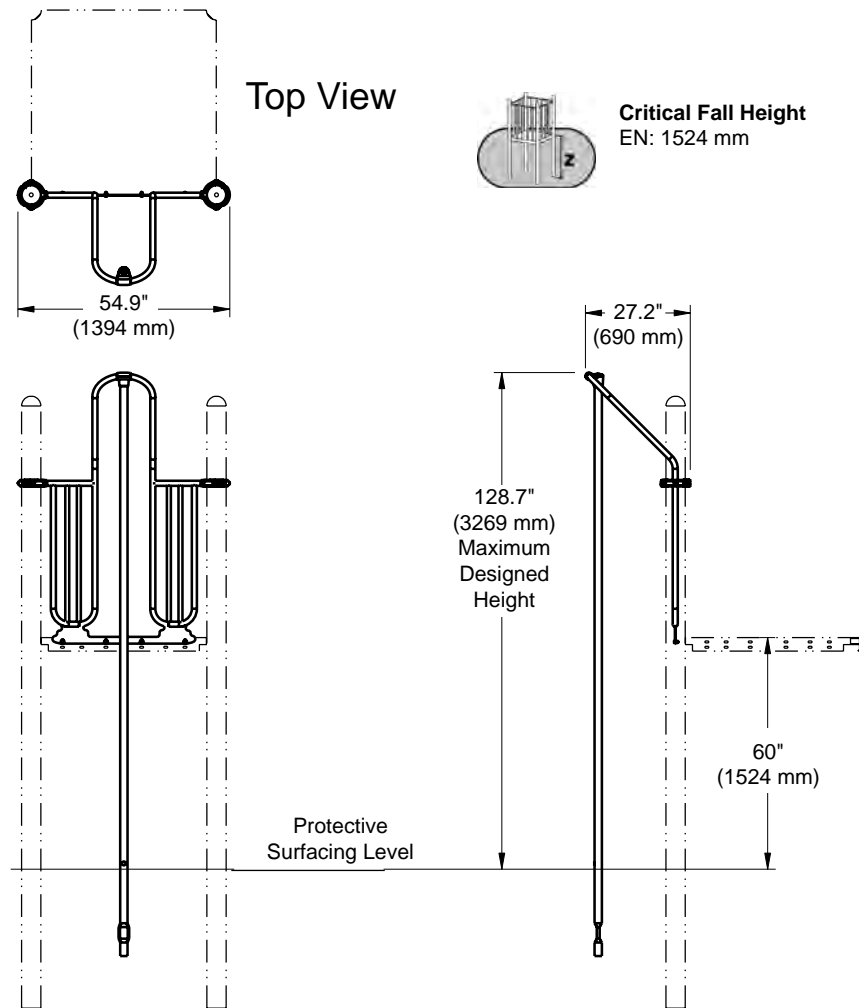
ICON KEY

	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

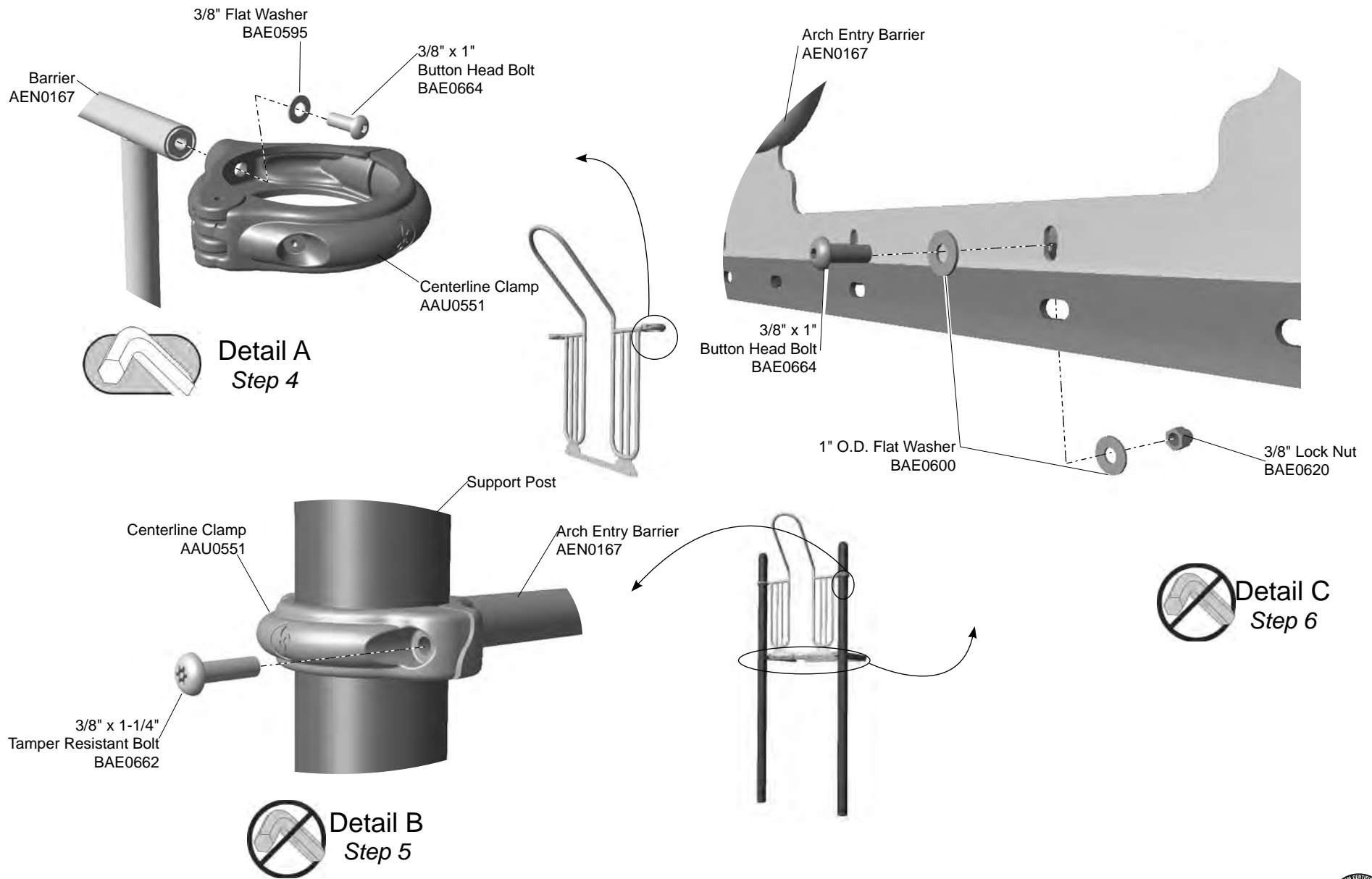


Installation Instructions

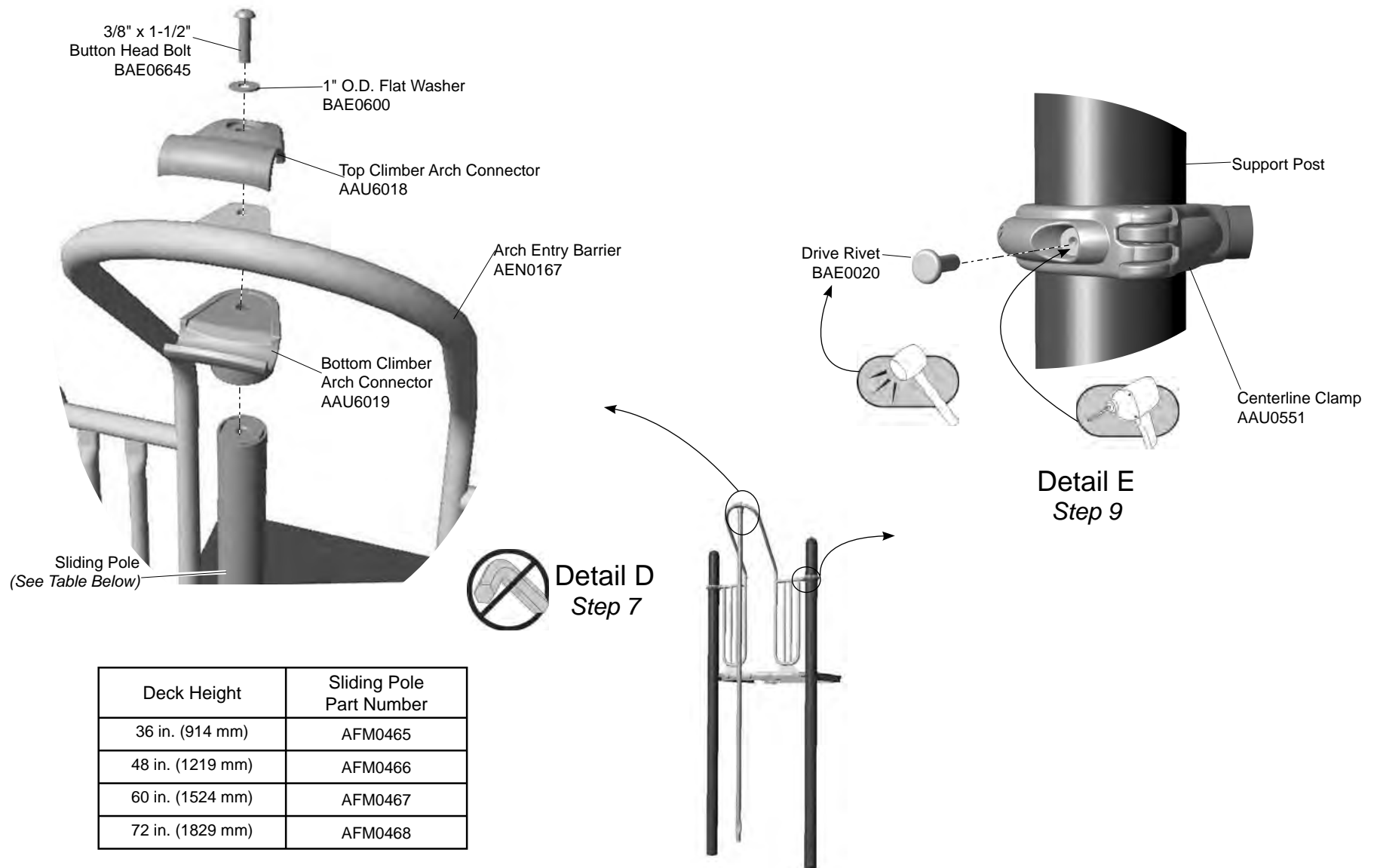


Installation Instructions

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



Installation Instructions



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 (representative model)

Model	Elevation Above Surfacing
ZZUN3246	73.6" (1869 mm)
ZZUN3247	61.5" (1562 mm)
ZZUN3248	49.6" (1260 mm)
ZZUN3249	37.6" (955 mm)
ZZUN3256	25.5" (648 mm)
ZZUN3257	7.6" (193 mm)







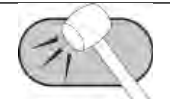
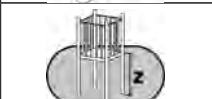
Installation Instructions

Universal Models UN3246, UN3247, UN3248,
UN3249, UN3256, and UN3257
6' 6" (1981 mm), 5' 6" (1676 mm), 4' 6" (1372 mm),
3' 6" (1067 mm), 2' 6" (762 mm), and 1' (305 mm)
Segmented Slide Support Leg

Installation Preparation

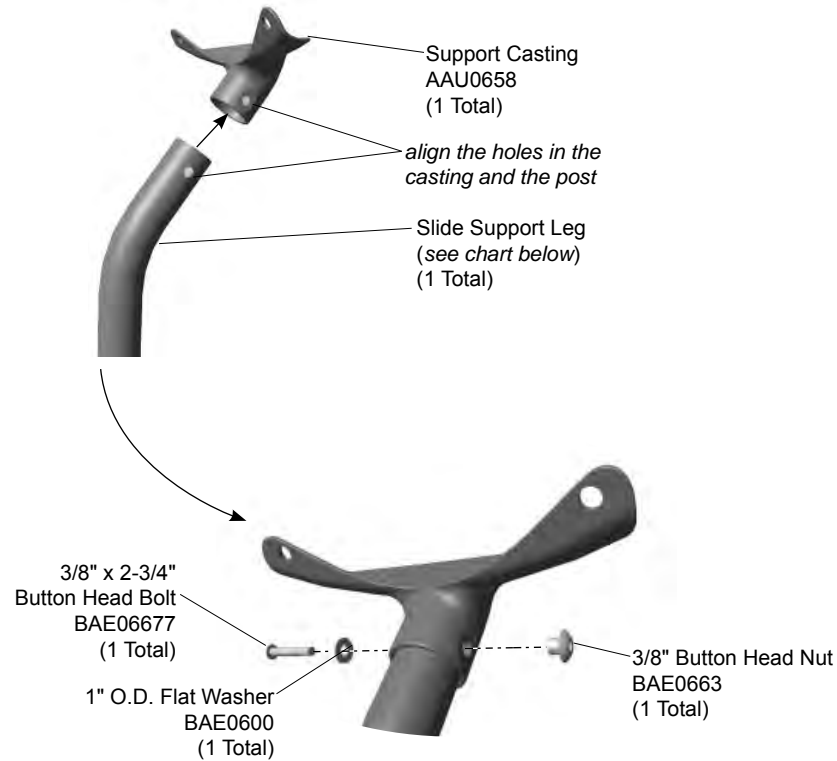
Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Concrete Required: 0.03 cubic yard (0,02 cubic meters)

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

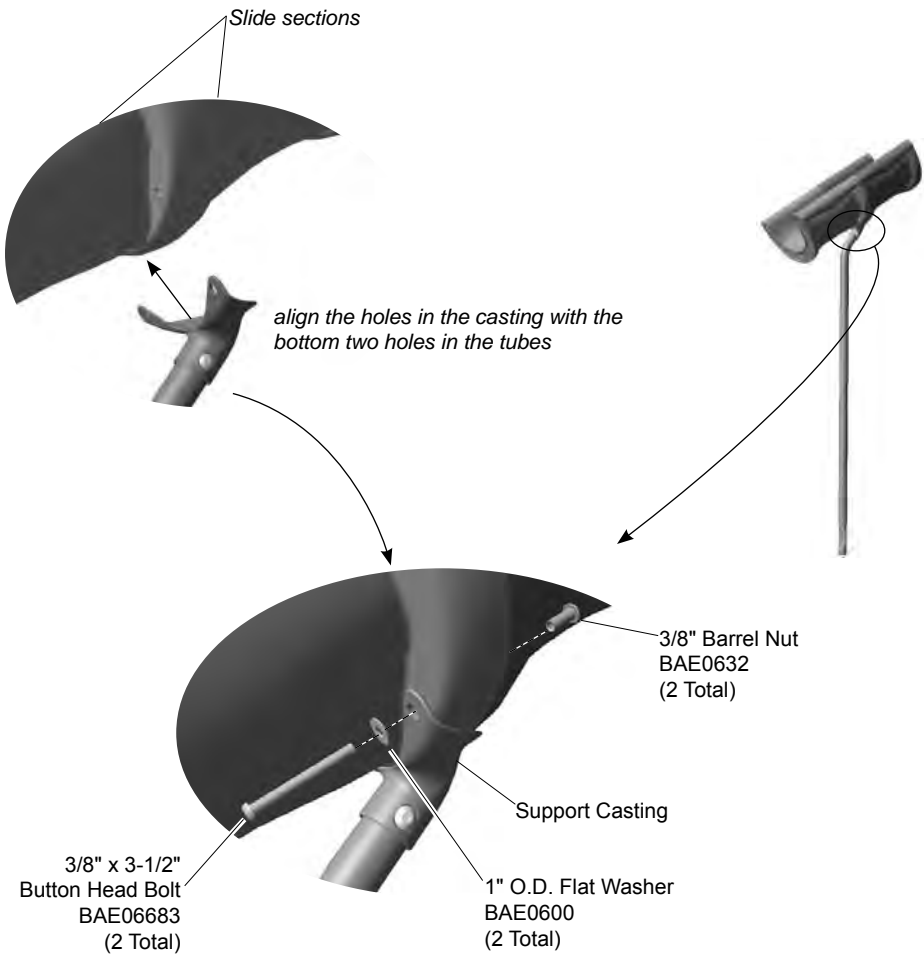
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 3.



Detail A Step 4

Attach the support casting
to the support leg.

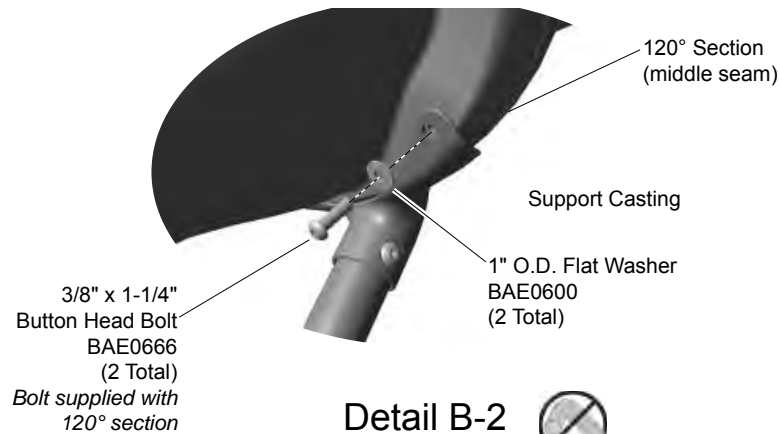
Model	Leg Part Number
ZZUN3246	APT0407
ZZUN3247	APT0408
ZZUN3248	APT0409
ZZUN3249	APT0410
ZZUN3256	APT0411
ZZUN3257	APT0838



Detail B-1 Step 5

Attach the support leg to the slide
sections except for the 120° section.
(60" - 72" slides only)

Installation Instructions



Detail B-2 Step 5

Attach the support leg to the middle seam of 120° section.



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 support leg.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of the instruction booklet. Reference the master layout drawing for placement of the footing holes for the slide support legs.

Step 4: Attach the support casting to the tube support leg. See **Detail A**. Lower the support casting onto the support leg, align the holes, and attach as shown.

Step 5: Attach the support casting to the tubes. See **Details B-1 and B-2**. Place the leg in the footing and align the support casting with the bottom holes in the seam of two connected slide sections and attach as shown. For the 120° section, position the casting against the middle seam bottom holes which contain threaded inserts 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. Block and brace for concrete. Important: **Make sure the support post is in the correct position according to the dimension outlined in the *Elevation Above Surfacing* table shown on page 1.** 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.

UN3246 - SEGMENTED SLIDE SUPPORT LEG 6 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0407	POST - 2-3/8" x 99-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3249 - SEGMENTED SLIDE SUPPORT LEG 3 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0410	POST - 2-3/8" x 63-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3247 - SEGMENTED SLIDE SUPPORT LEG 5 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0408	POST - 2-3/8" x 87-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3256 - SEGMENTED SLIDE SUPPORT LEG 2 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0411	POST - 2-3/8" x 51-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3248 - SEGMENTED SLIDE SUPPORT LEG 4 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0409	POST - 2-3/8" x 75-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3257 - SEGMENTED SLIDE SUPPORT LEG 1 ft

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0838	POST - 2-3/8" x 33.29" x 6.10"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

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.

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 UN3246, UN3247, UN3248, UN3249, UN3256, and UN3257
6' 6" (1981 mm), 5' 6" (1676 mm),
4' 6" (1372 mm), 3' 6" (1067 mm),
2' 6" (762 mm), and 1' (305mm)
Segmented Slide Support Leg





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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 surfacing to insure proper depth and distribution.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
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 (representative model)

Model	Elevation Above Surfacing
ZZUN3246	73.6" (1869 mm)
ZZUN3247	61.5" (1562 mm)
ZZUN3248	49.6" (1260 mm)
ZZUN3249	37.6" (955 mm)
ZZUN3256	25.5" (648 mm)
ZZUN3257	7.6" (193 mm)








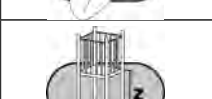
Installation Instructions

Universal Models UN3246, UN3247, UN3248,
UN3249, UN3256, and UN3257
6' 6" (1981 mm), 5' 6" (1676 mm), 4' 6" (1372 mm),
3' 6" (1067 mm), 2' 6" (762 mm), and 1' (305 mm)
Segmented Slide Support Leg

Installation Preparation

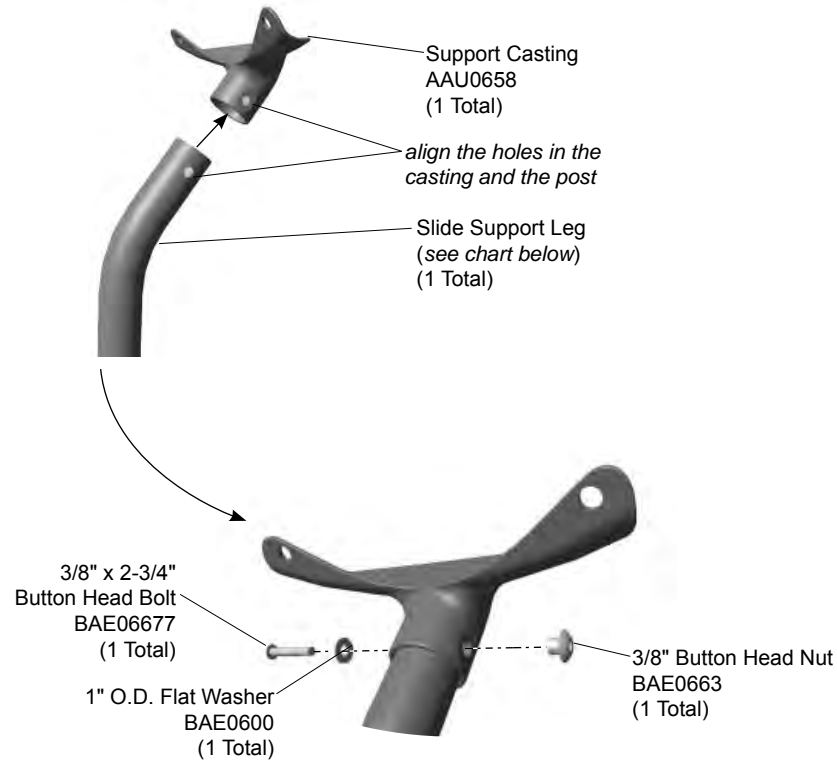
Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Concrete Required: 0.03 cubic yard (0,02 cubic meters)

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

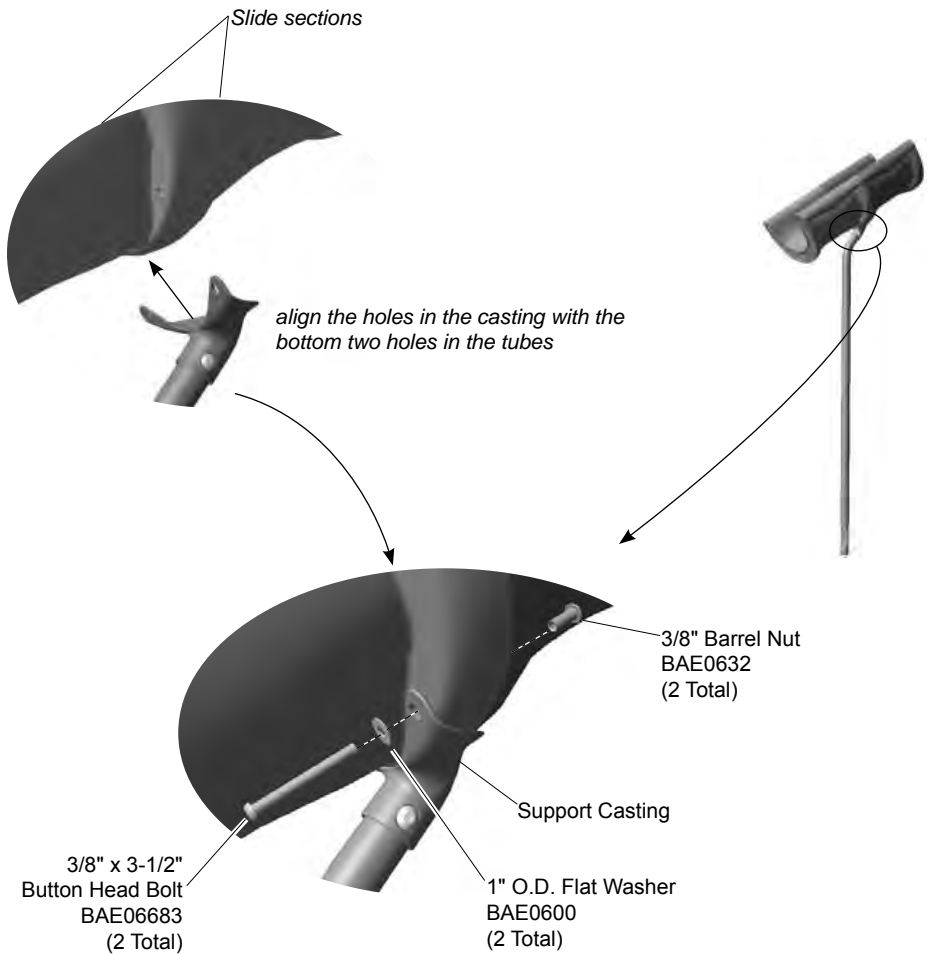
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 3.



Detail A Step 4

Attach the support casting
to the support leg.

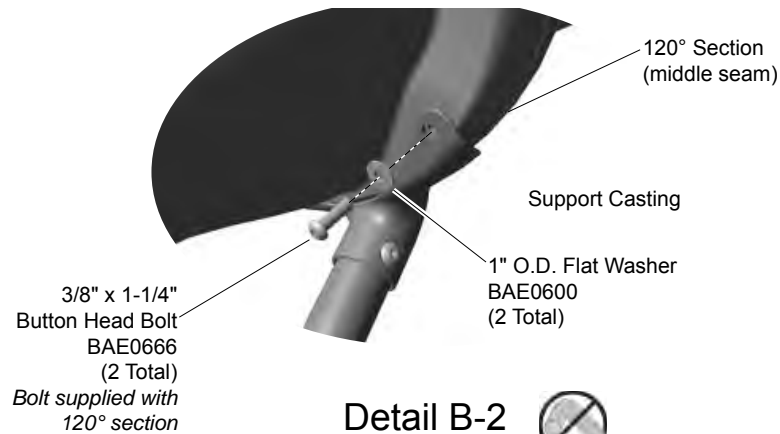
Model	Leg Part Number
ZZUN3246	APT0407
ZZUN3247	APT0408
ZZUN3248	APT0409
ZZUN3249	APT0410
ZZUN3256	APT0411
ZZUN3257	APT0838



Detail B-1 Step 5

Attach the support leg to the slide
sections except for the 120° section.
(60" - 72" slides only)

Installation Instructions



Detail B-2
Step 5

Attach the support leg to the middle seam of 120° section.



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 support leg.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of the instruction booklet. Reference the master layout drawing for placement of the footing holes for the slide support legs.

Step 4: Attach the support casting to the tube support leg. See **Detail A**. Lower the support casting onto the support leg, align the holes, and attach as shown.

Step 5: Attach the support casting to the tubes. See **Details B-1 and B-2**. Place the leg in the footing and align the support casting with the bottom holes in the seam of two connected slide sections and attach as shown. For the 120° section, position the casting against the middle seam bottom holes which contain threaded inserts 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. Block and brace for concrete. Important: **Make sure the support post is in the correct position according to the dimension outlined in the *Elevation Above Surfacing* table shown on page 1.** 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.

UN3246 - SEGMENTED SLIDE SUPPORT LEG 6 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0407	POST - 2-3/8" x 99-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3249 - SEGMENTED SLIDE SUPPORT LEG 3 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0410	POST - 2-3/8" x 63-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3247 - SEGMENTED SLIDE SUPPORT LEG 5 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0408	POST - 2-3/8" x 87-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3256 - SEGMENTED SLIDE SUPPORT LEG 2 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0411	POST - 2-3/8" x 51-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3248 - SEGMENTED SLIDE SUPPORT LEG 4 ft - 6 in.

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0409	POST - 2-3/8" x 75-5/16" x 6-3/32"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

UN3257 - SEGMENTED SLIDE SUPPORT LEG 1 ft

PART NO.	DESCRIPTION	QTY.
AAU0658	CASTING - 14.35" x 6.11" x 6.37"	1
APT0838	POST - 2-3/8" x 33.29" x 6.10"	1
BAE0600	WASHER - 1" SS FLAT	3
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BAE06683	BOLT - 3/8"-16 x 3-1/2" BUTTON HEAD - SS	2

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.

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 UN3246, UN3247, UN3248, UN3249, UN3256, and UN3257
6' 6" (1981 mm), 5' 6" (1676 mm),
4' 6" (1372 mm), 3' 6" (1067 mm),
2' 6" (762 mm), and 1' (305mm)
Segmented Slide Support Leg





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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 footing to insure support is secure and footing is not damaged.	Low			
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 (representative model)

Model	Deck Height
PM3128	24-30" (610-762 mm)
PM3127	36" (915 mm)
PM3126	48" (1220 mm)
PM2658	60" (1525 mm)
PM2696	72" (1830 mm)

Installation Instructions








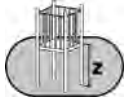
Playmakers®

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

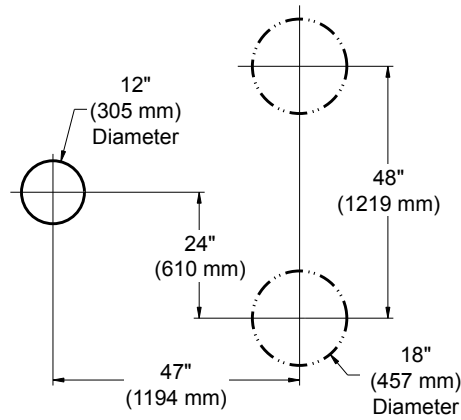
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 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

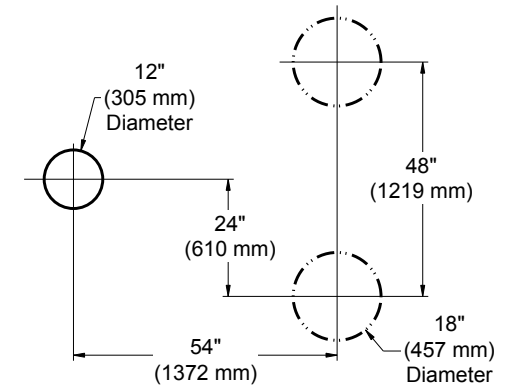
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

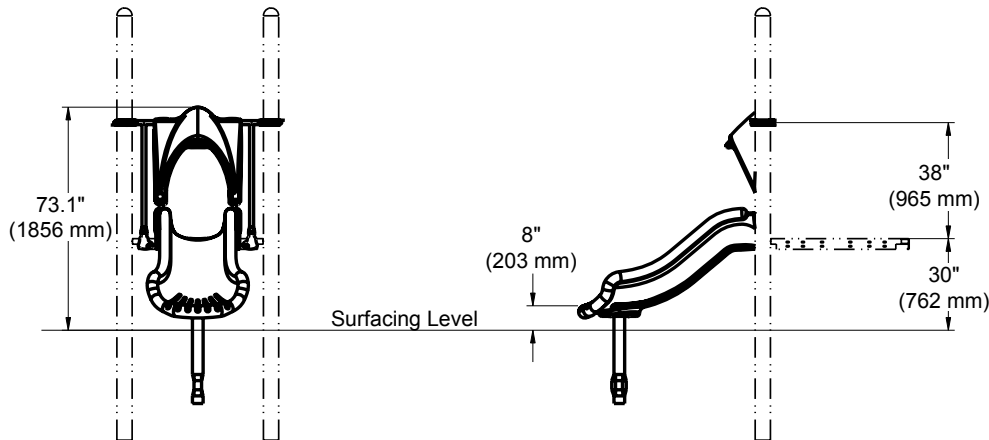
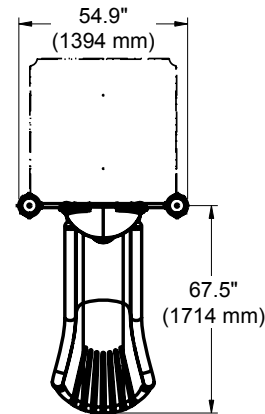
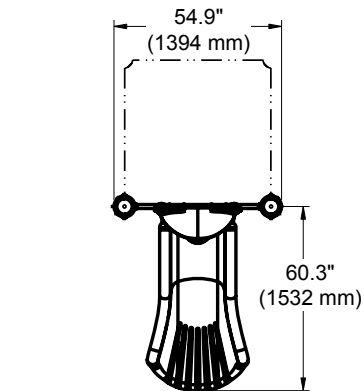


Footing Diagram

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

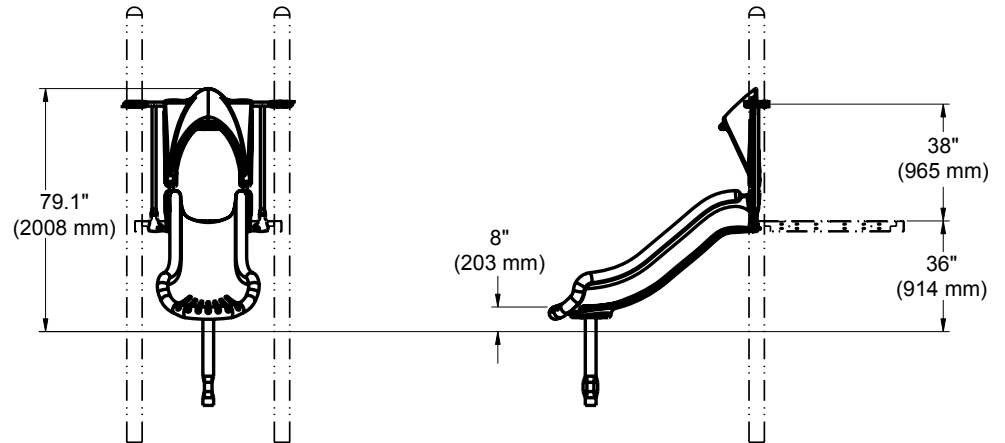


Footing Diagram



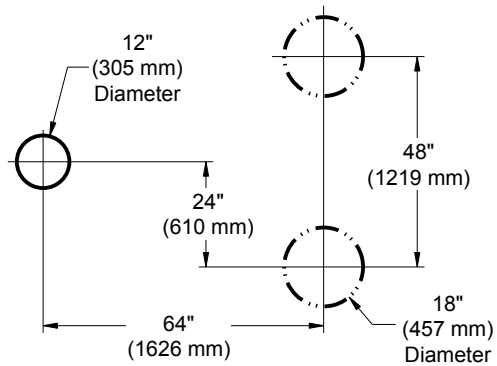
Elevation View PM3128 - 30" Glide Slide

(24" slide: exit will be 2" (50mm) above the surfacing level)

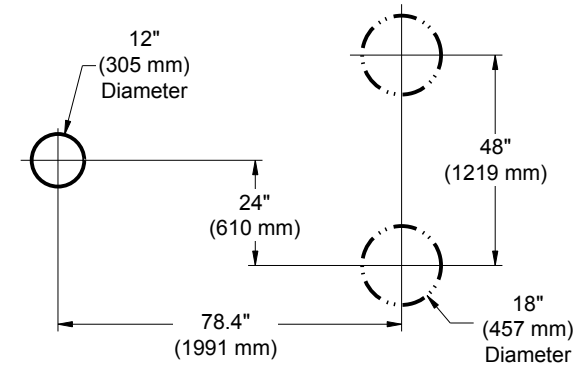


Elevation View PM3127 - 36" Glide Slide

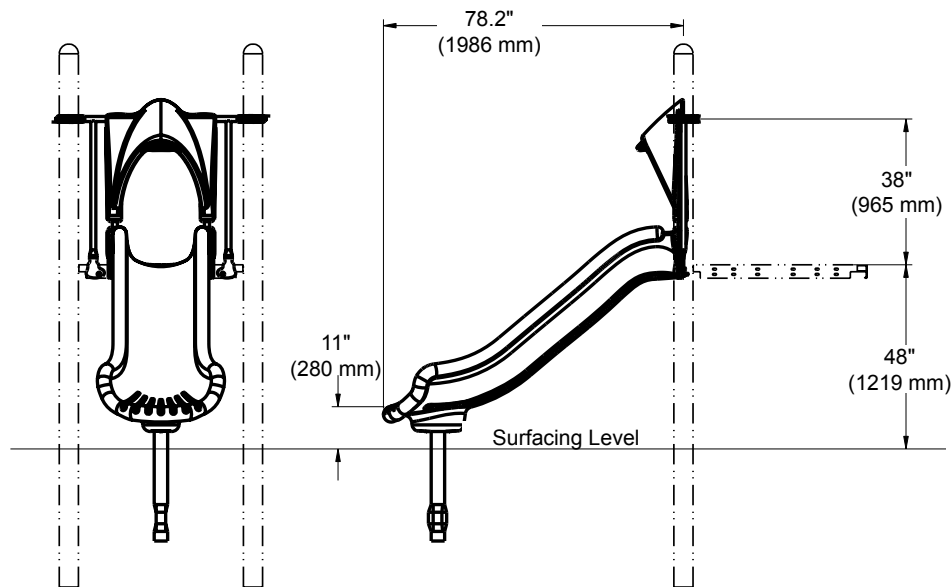
Installation Instructions



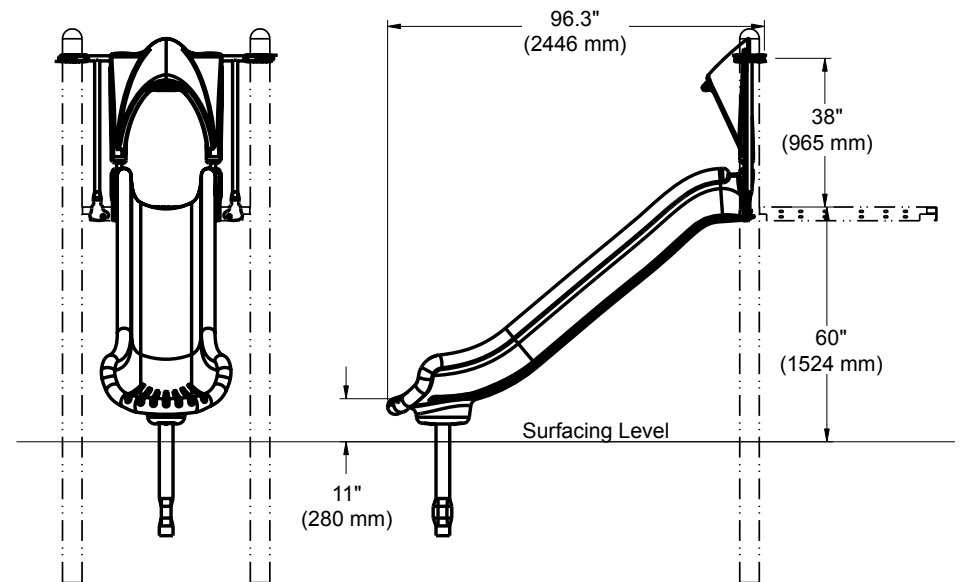
Footing Diagram



Footing Diagram

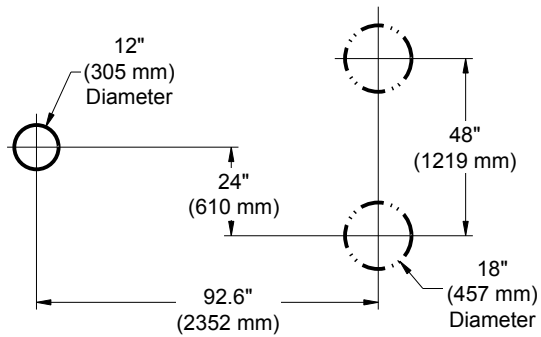


Elevation View PM3126 - 48" Glide Slide

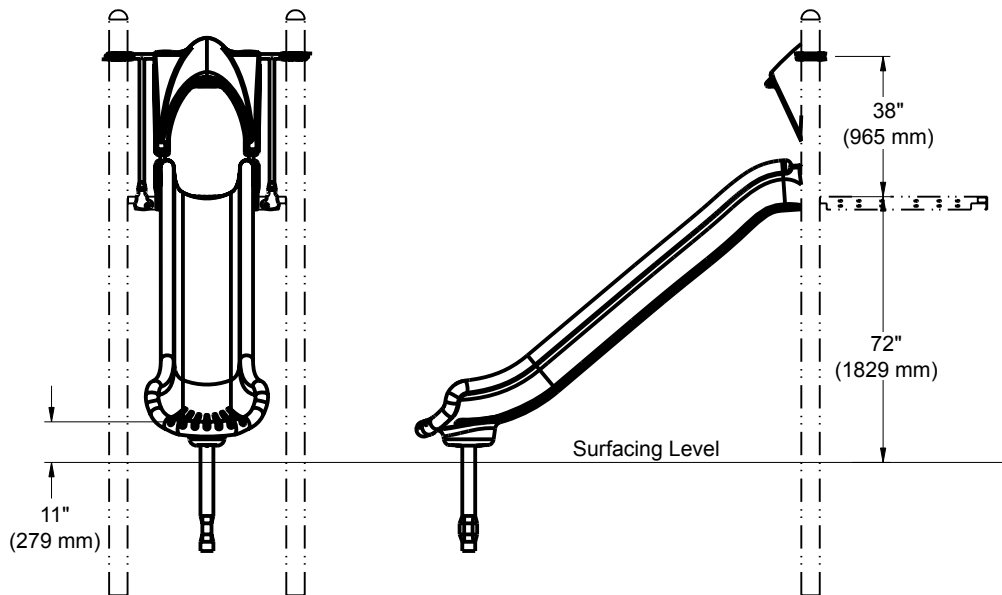


Elevation View PM2658 - 60" Glide Slide

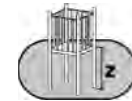
Installation Instructions



Footings Diagram



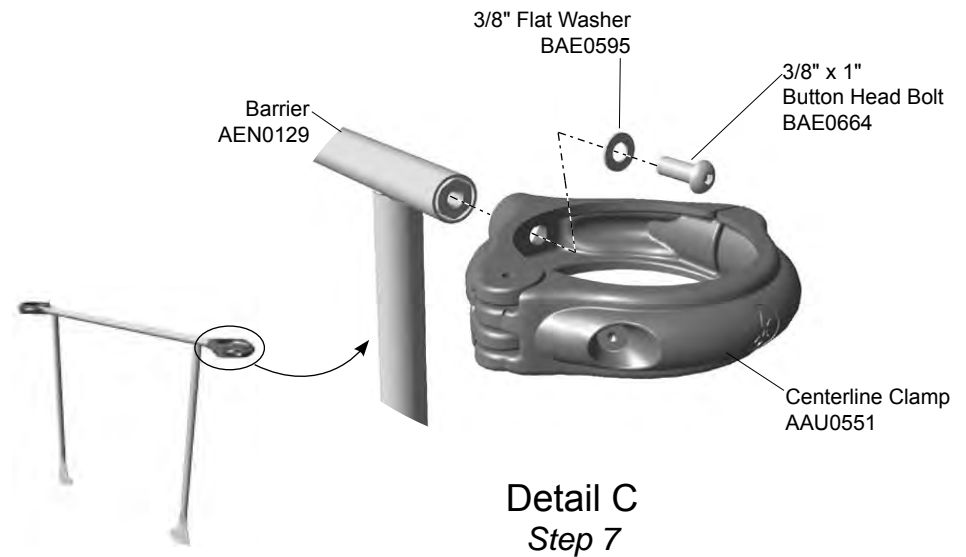
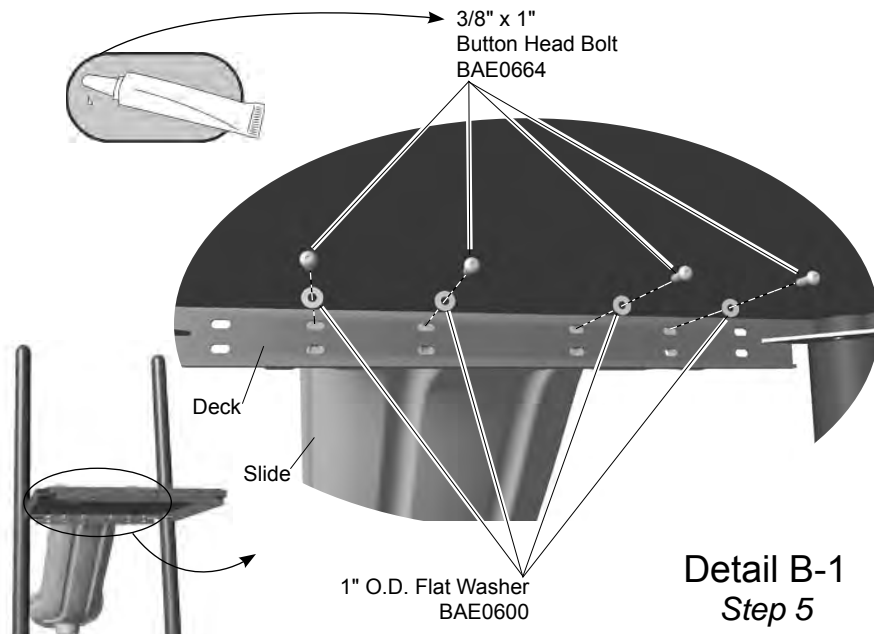
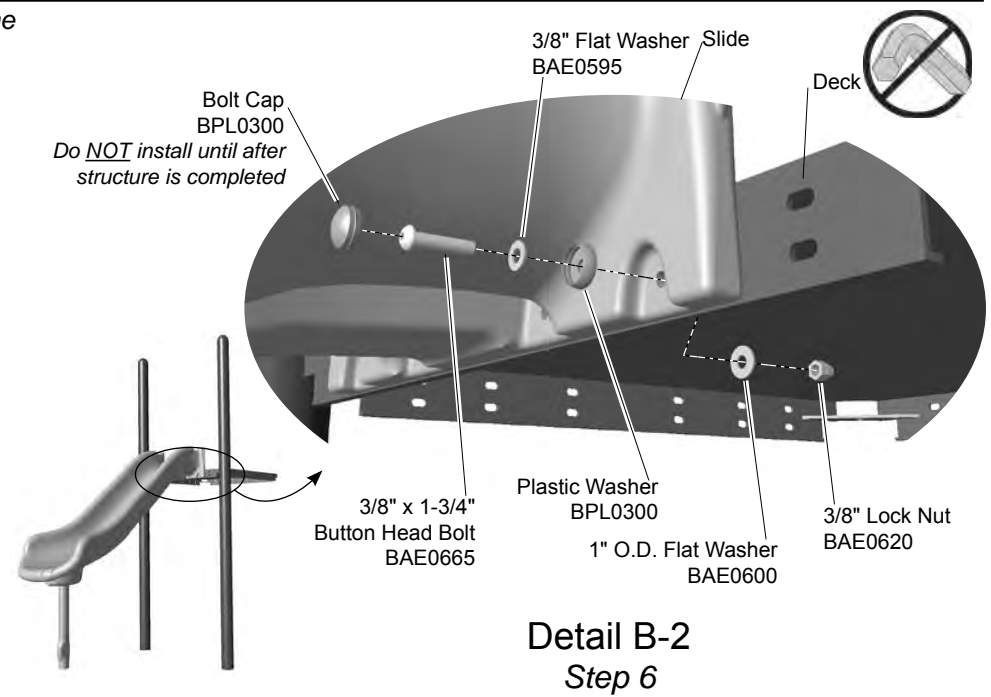
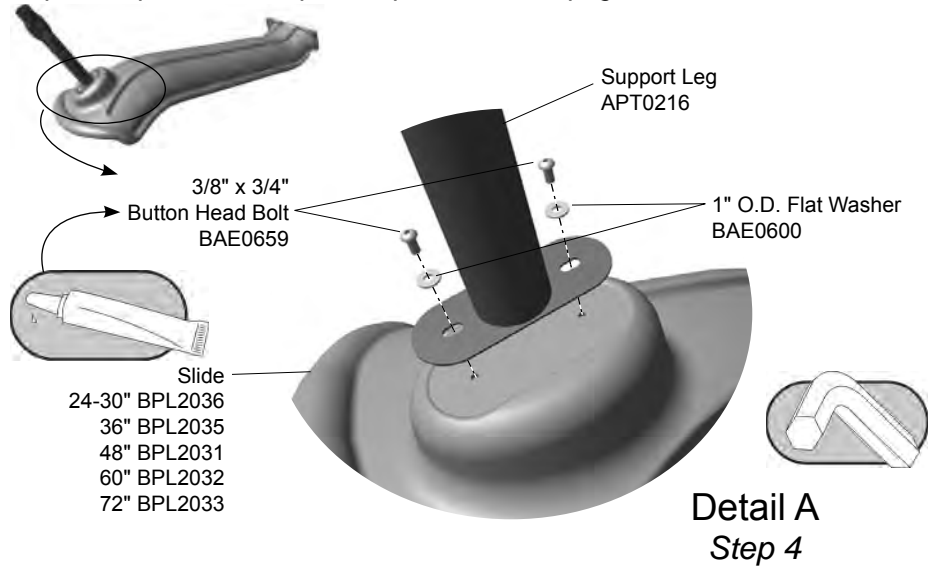
Elevation View PM2696 - 72" Glide Slide



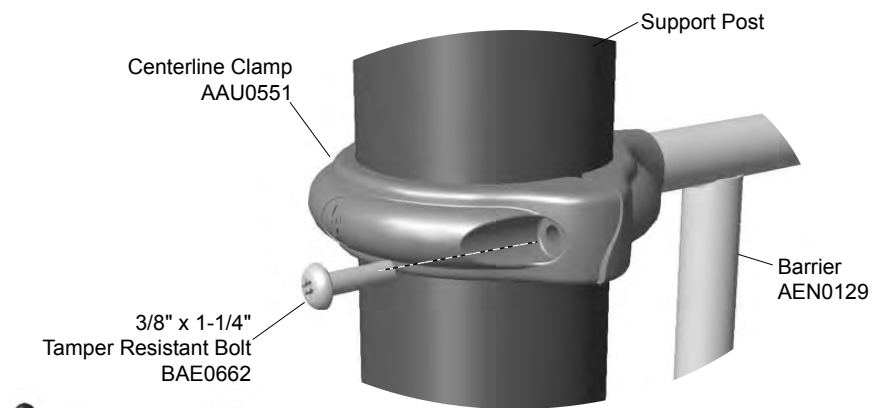
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

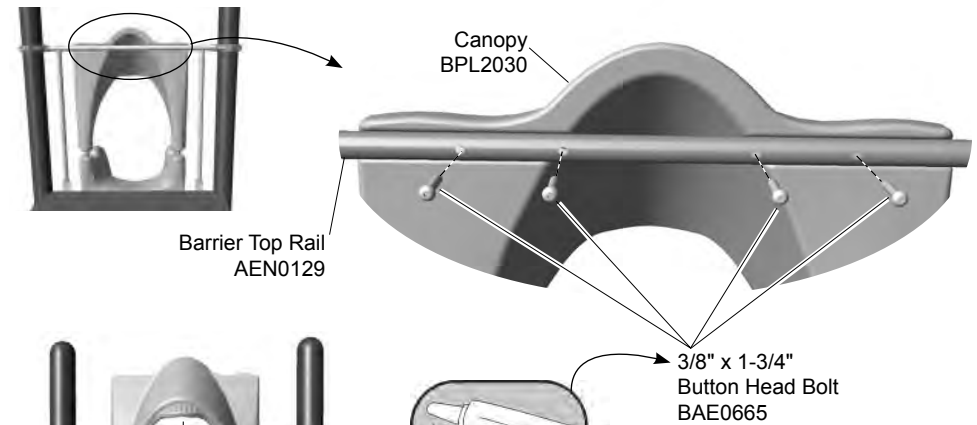
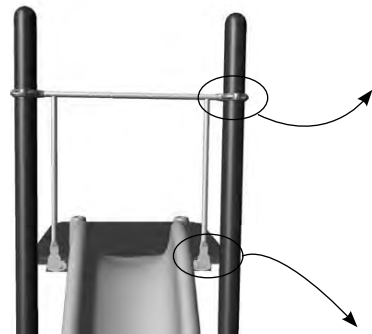
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



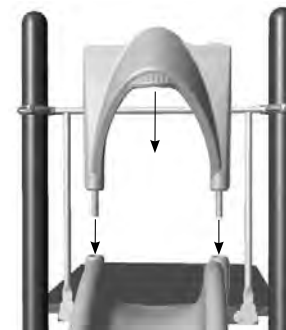
Installation Instructions



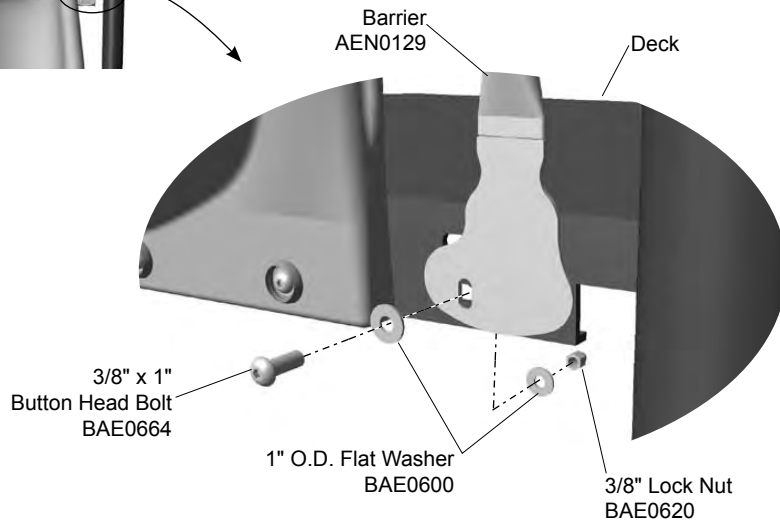
Detail D-1
Step 8



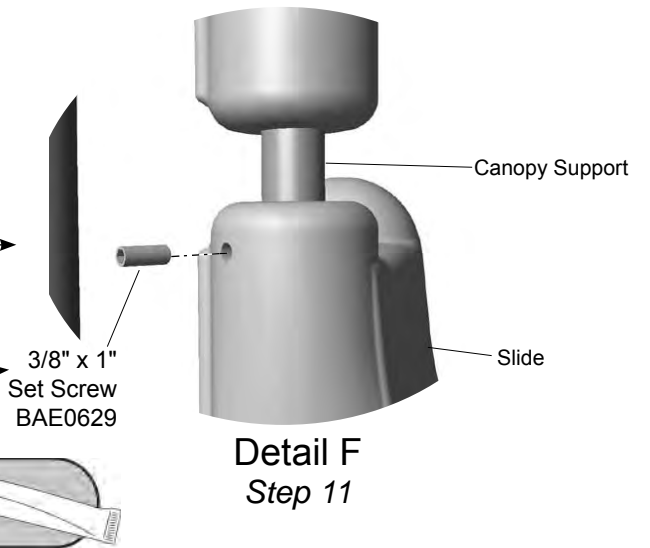
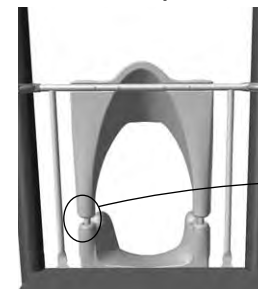
Detail E-2
Step 10



Detail E-1
Step 10

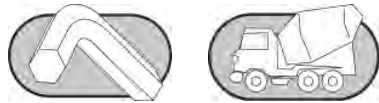


Detail D-2
Step 9

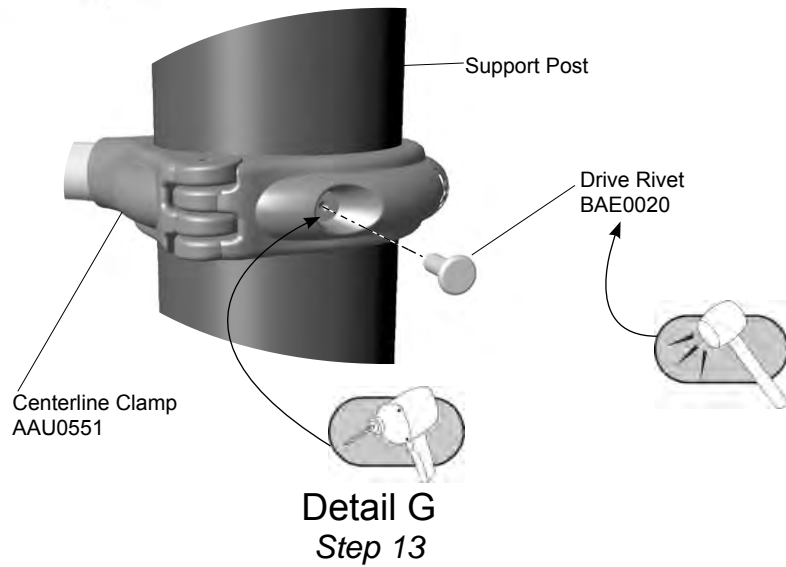
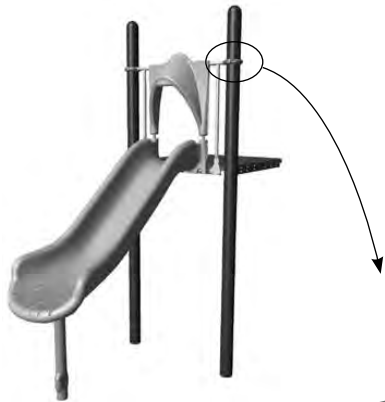


Detail F
Step 11

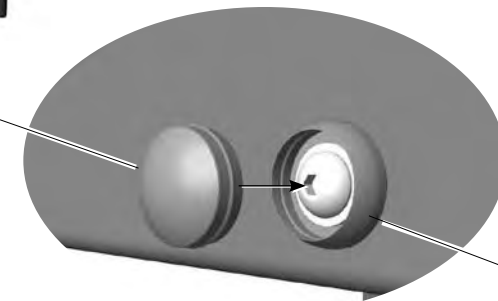
Installation Instructions



Step 12



Bolt Cap
BPL0300



Plastic Washer
BPL0300

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

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" TMRP 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








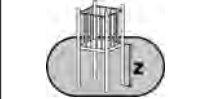
Playmakers® Model PM3129

90° Glide Slide

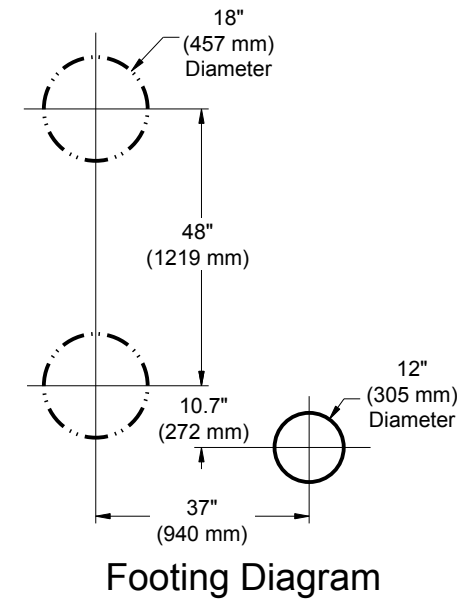
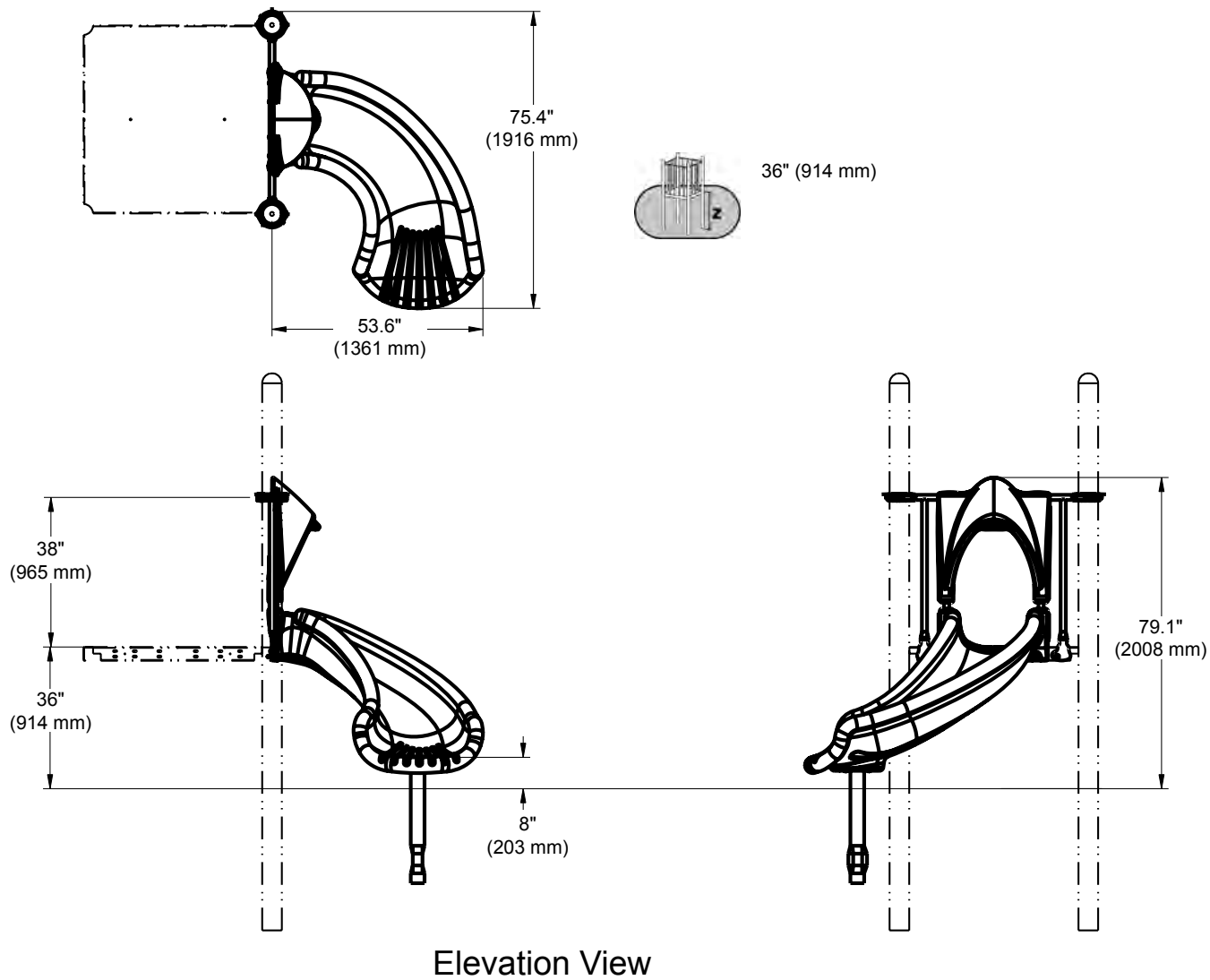
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 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

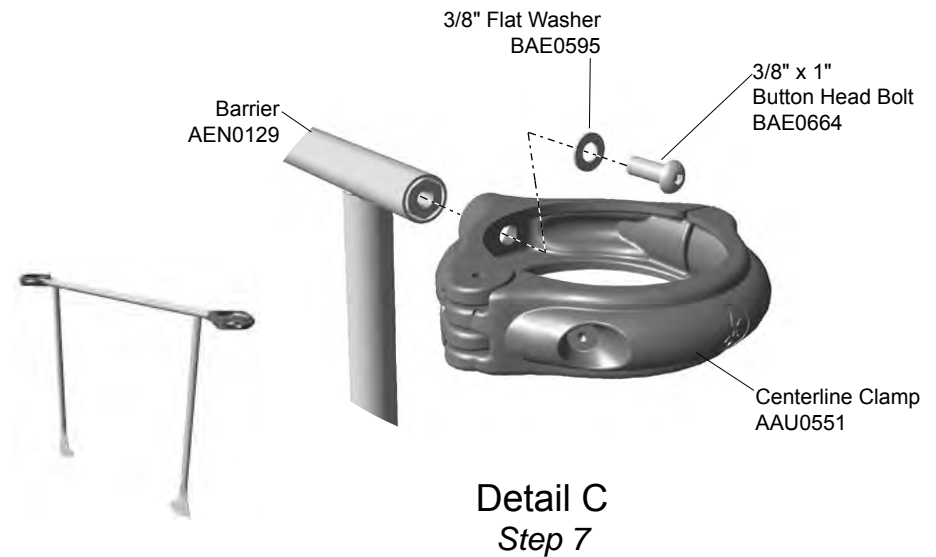
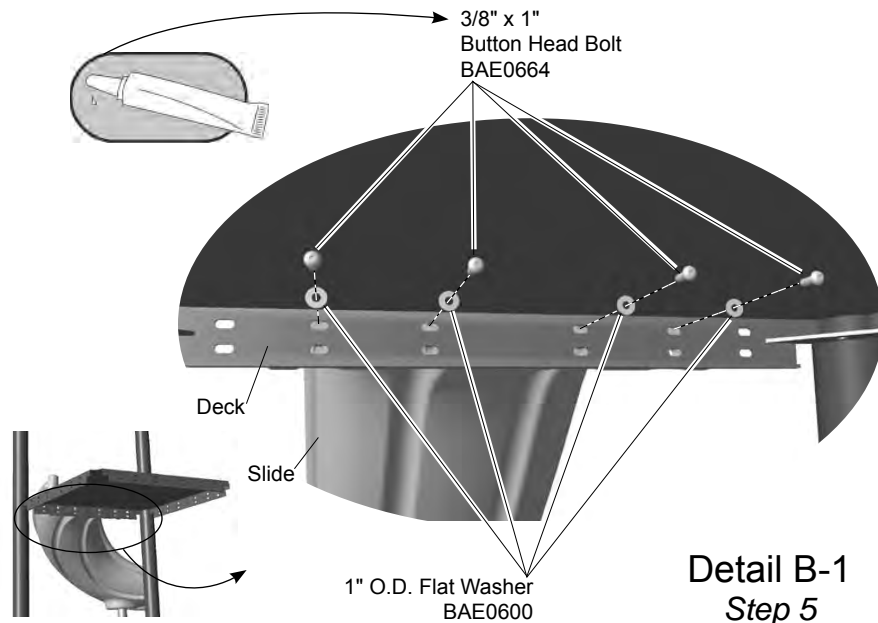
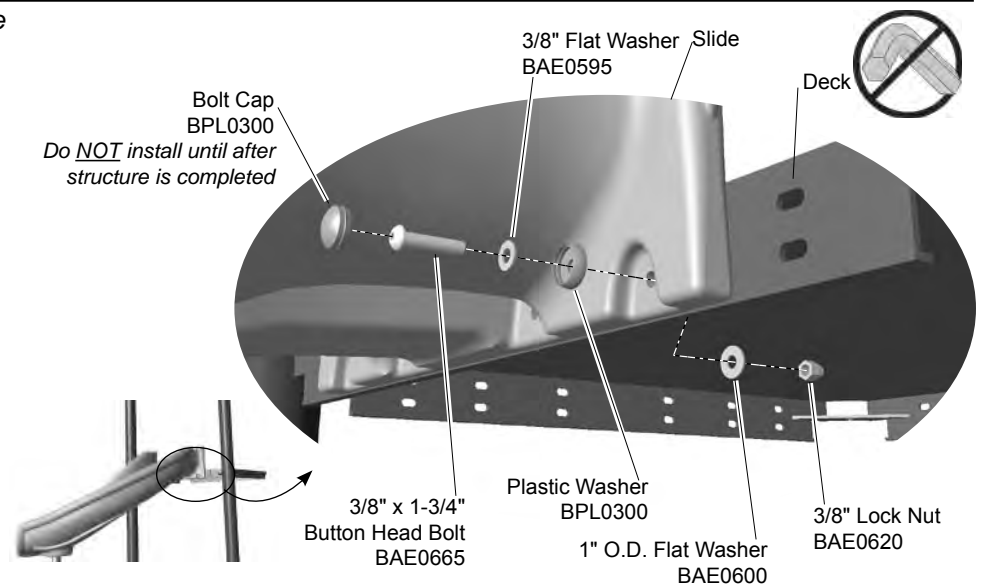
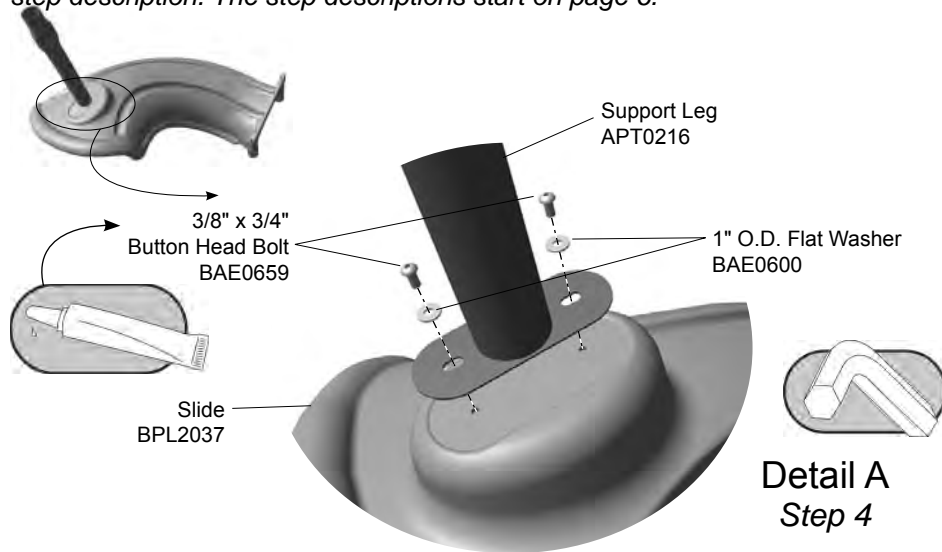
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

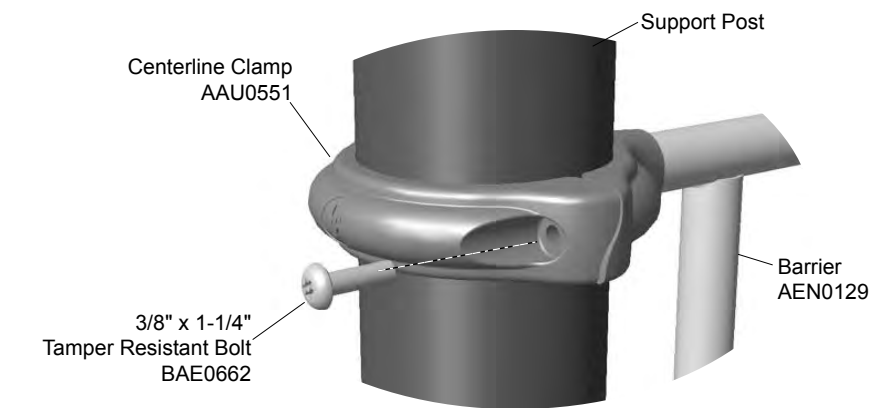


Installation Instructions

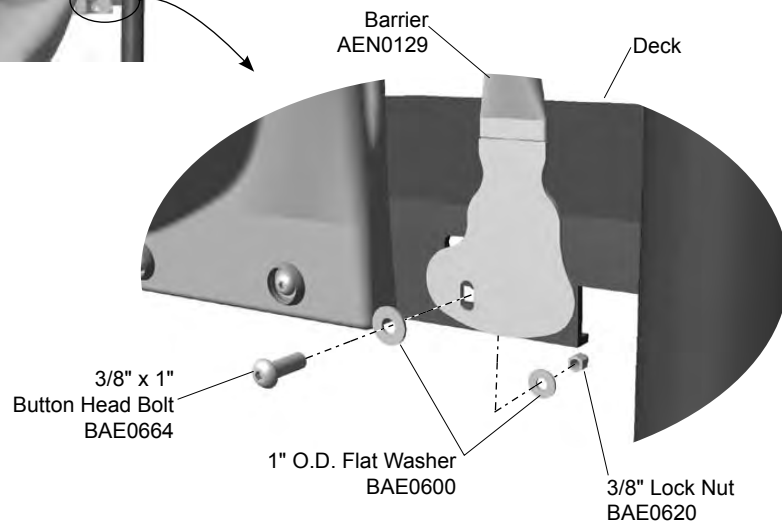
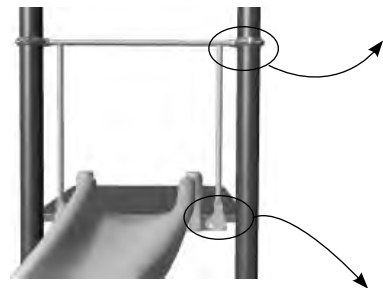
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



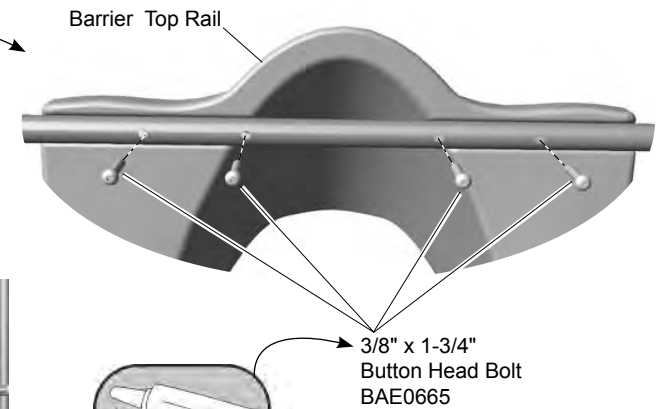
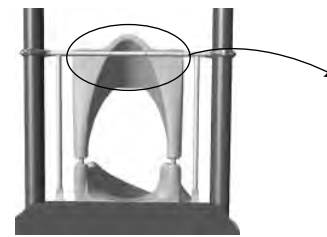
Installation Instructions



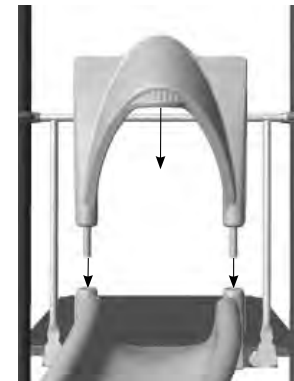
Detail D-1
Step 8



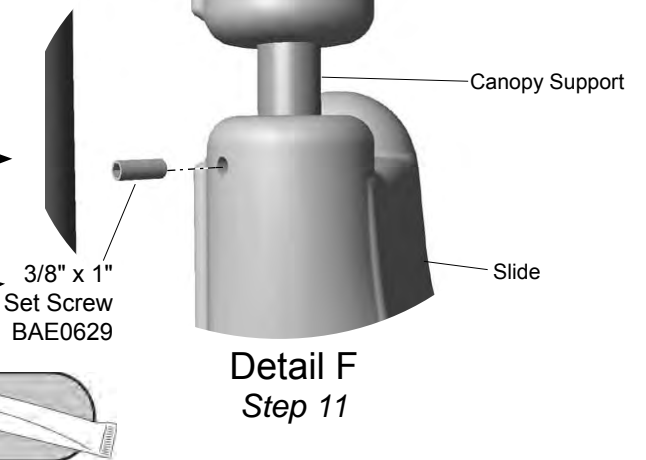
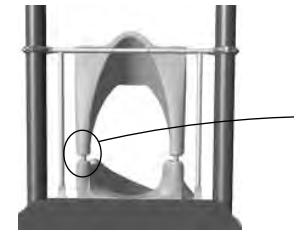
Detail D-2
Step 9



Detail E-2
Step 10

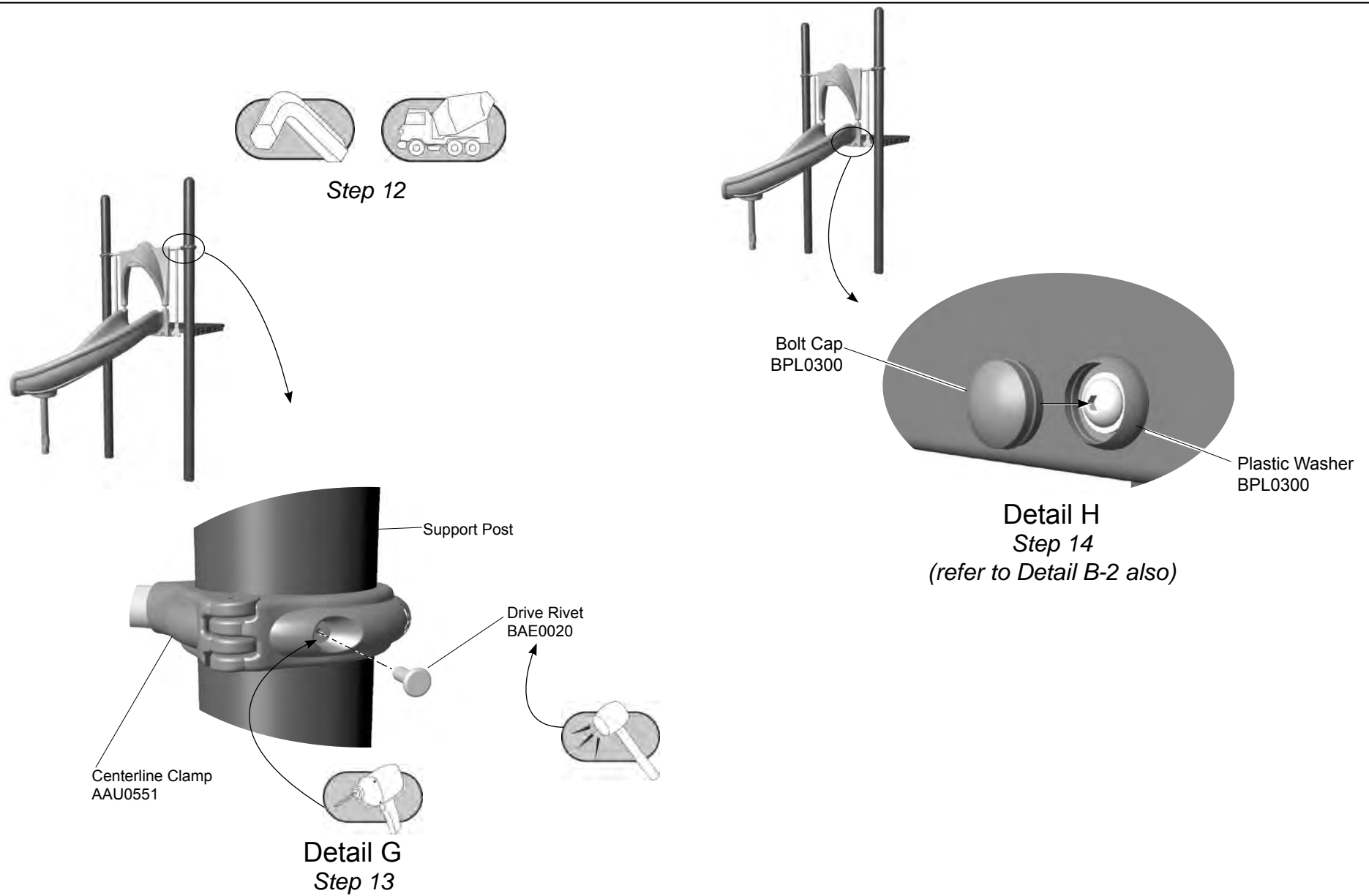


Detail E-1
Step 10



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

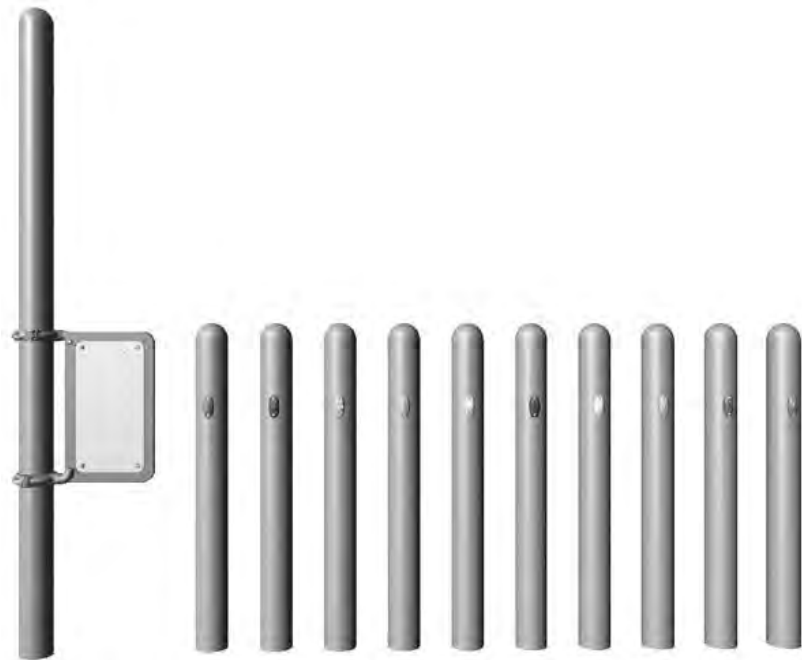
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	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








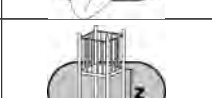
Playmakers® Model PM4648

Post Mount Scavenger Hunt

Installation Preparation

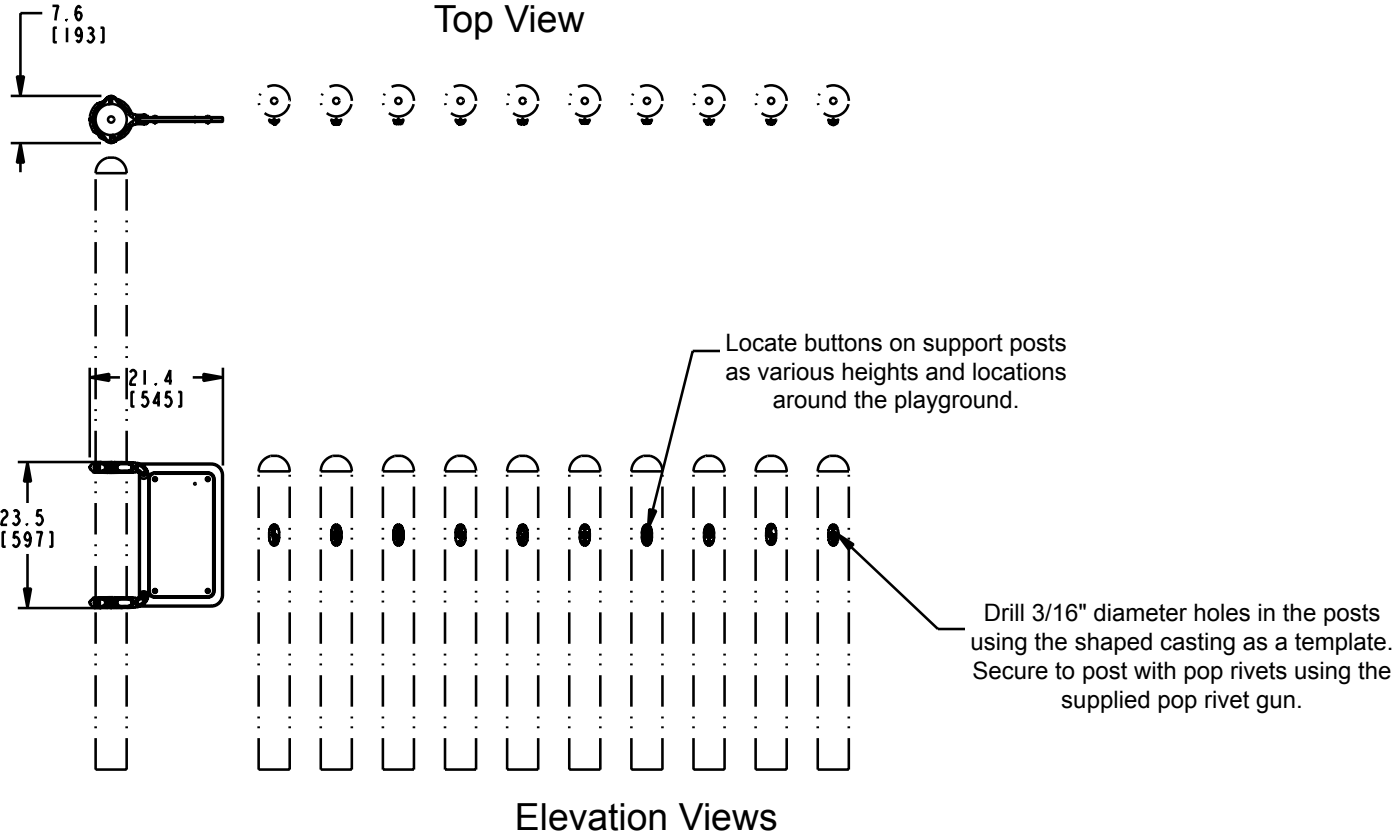
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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

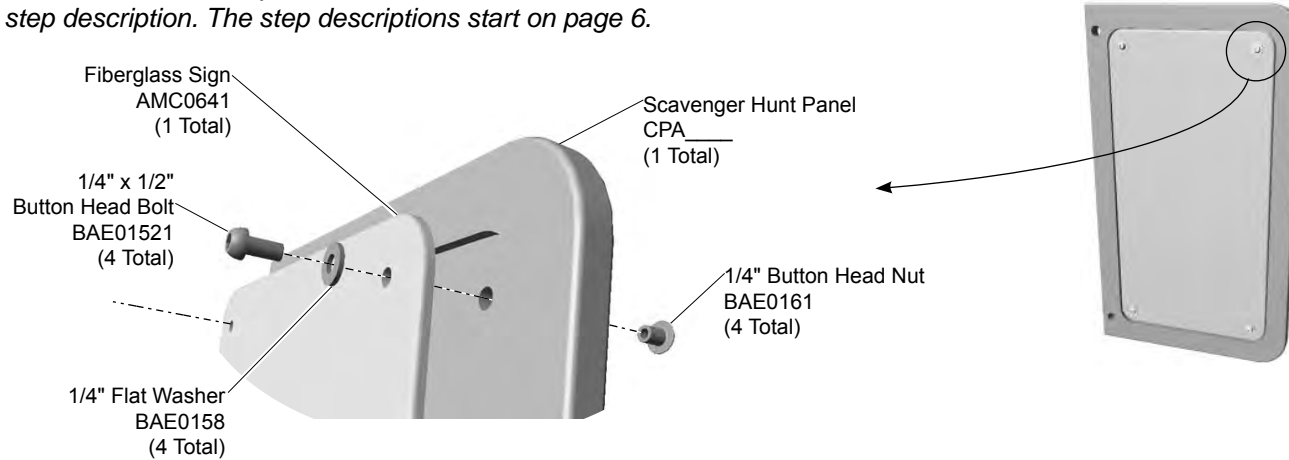
Installation Instructions

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



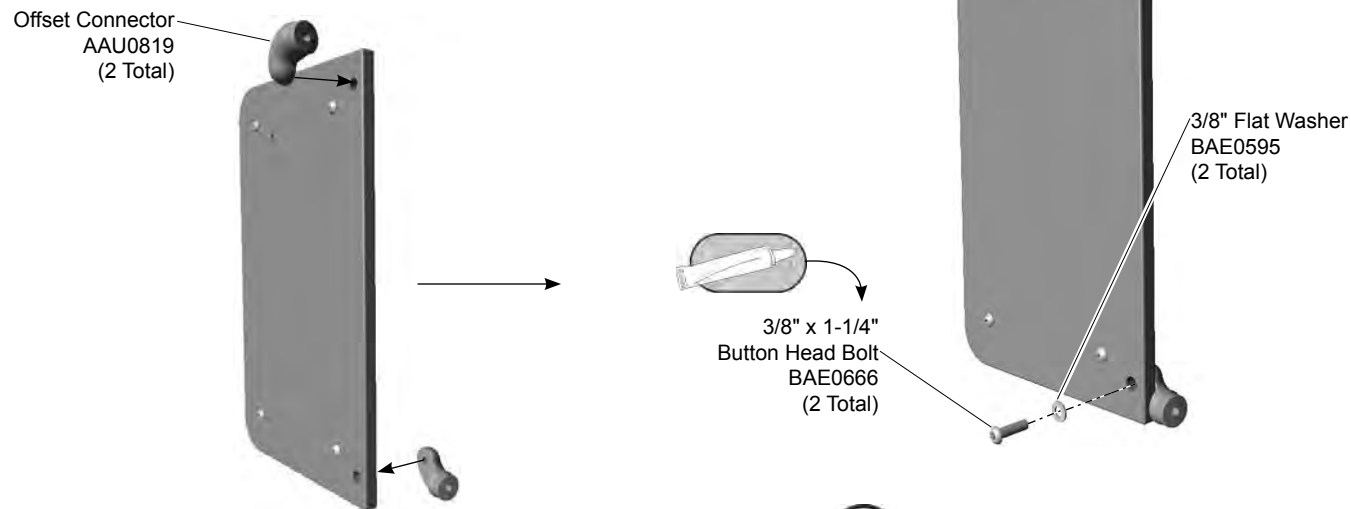
Installation Instructions

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

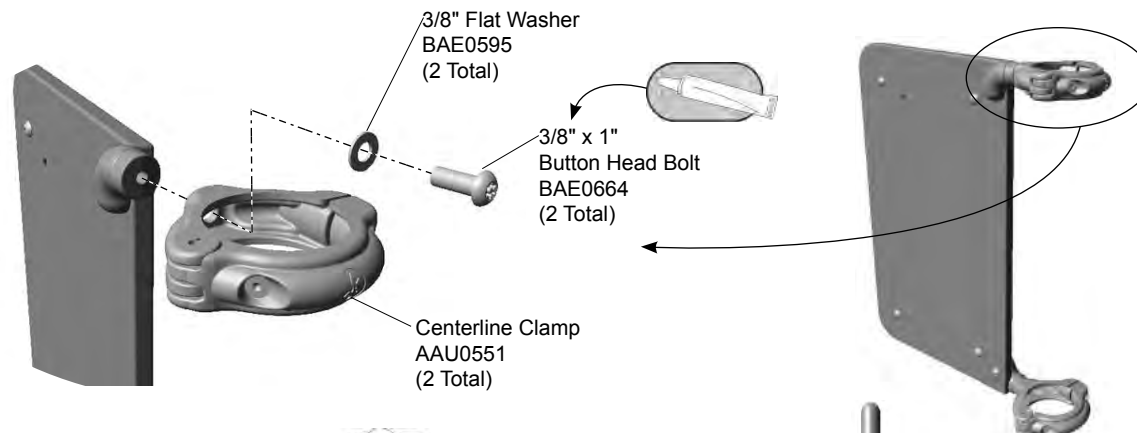
Attach the fiberglass sign to the panel.



Detail B Step 4

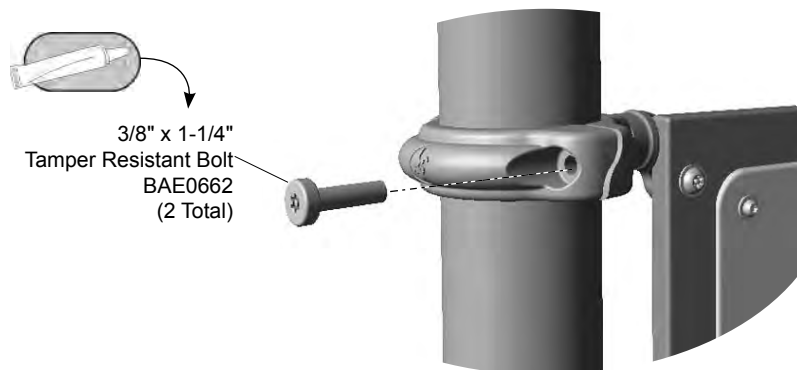
Attach the offset connectors to the panel.

Installation Instructions



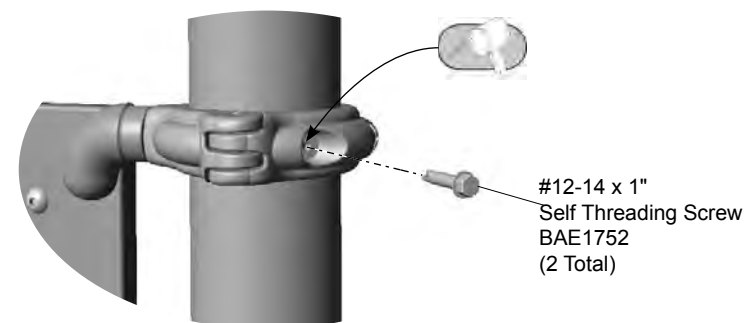
Detail C
Step 5

Attach clamps to the offset connectors.



Detail D
Step 6

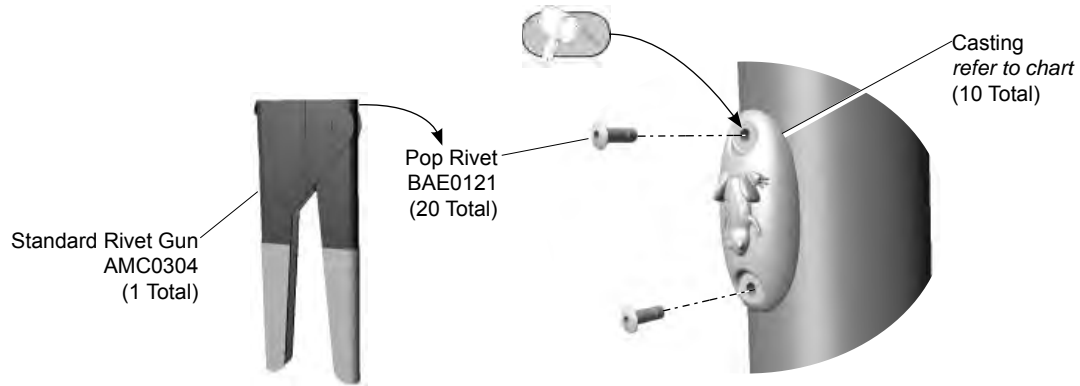
Attach panel to the support post.



Detail E
Step 8

Secure the clamps to the support posts.

Installation Instructions



Detail F

Step 9

Secure the castings to the posts.

Shape	Casting Part Number
Butterfly	AAU0641
Flower	AAU0642
Frog	AAU0643
Pickle	AAU0644
Star	AAU0645
Carrot	AAU0646
Apple	AAU0647
Clock	AAU0648
Fish	AAU0649
Smiley Face	AAU0650

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 fiberglass sign to the panel. See **Detail A**. Place the sign, graphics side facing out, into the routed side of the panel and attach as shown. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

Step 4: Attach the offset connectors to the panel. See **Detail B**. Position each offset connector against the straight edge of the panel, with one on the front side and one on the back side, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 5: Attach the clamps to the offset connectors. See **Detail C**. Position the neck of each clamp over an offset connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Make sure the clamps open in the same direction. Fully tighten the connections according to tightening torque specifications.

Step 6: Attach the panel to the support posts. See **Detail D**. Position the panel against the support post and close the clamps around the post. Apply a drop of thread locking adhesive to the bolt threads and 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.

Step 8: Secure the clamps to the support posts. See **Detail E**. After the equipment assembly is complete, install a self threading screw in each clamp to permanently secure it to the support post. Using a 3/16" drill bit, drill through the clamp and support post. Thread each screw through the clamp and into the support post. Fully tighten all fasteners according to tightening torque specifications.

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

Step 9: Secure the castings to the posts. See **Detail F**. Locate the castings on posts at various heights and locations around the playground. Drill 3/16" diameter holes in the posts using the shaped casting as a template. Secure to post with pop rivets using the supplied pop rivet gun.

PM4648 - POST MOUNT SCAVENGER HUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0641	CASTING - BUTTERFLY	1
AAU0642	CASTING - FLOWER	1
AAU0643	CASTING - FROG	1
AAU0644	CASTING - PICKLE	1
AAU0645	CASTING - STAR	1
AAU0646	CASTING - CARROT	1
AAU0647	CASTING - APPLE	1
AAU0648	CASTING - CLOCK	1
AAU0649	CASTING - FISH	1
AAU0650	CASTING - SMILEY FACE	1
AAU0819	CONNECTOR - 1.38" O.D. OFFSET ANGLE DOGLEG	2
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0641	SIGN - POST MOUNT SCAVENGER HUNT FIBERGLASS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0121	RIVET - 3/16" x .56 ALUMINUM POP	20
BAE01521	BOLT - 1/4"-20 x 1/2" 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	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	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE1668	MISC - 3/16" DRILL BIT	1
BAE1752	SCREW - SELF THREADING #12-14 x 1.00"	2
CPA_____	SHEET - POST MOUNT SCAVENGER HUNT	1



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Assembly View

Installation Instructions







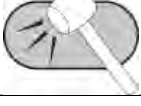
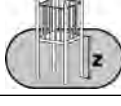
Playmakers® Model PM4646

Storefront Panel

Installation Preparation

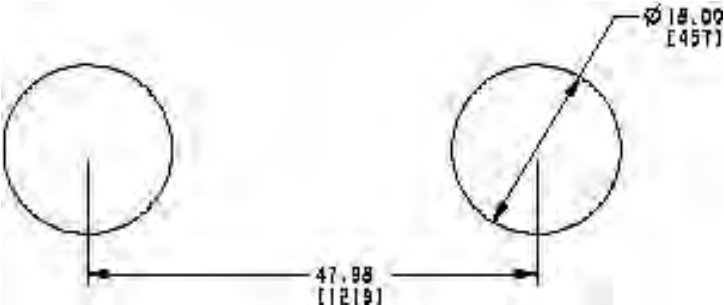
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY

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

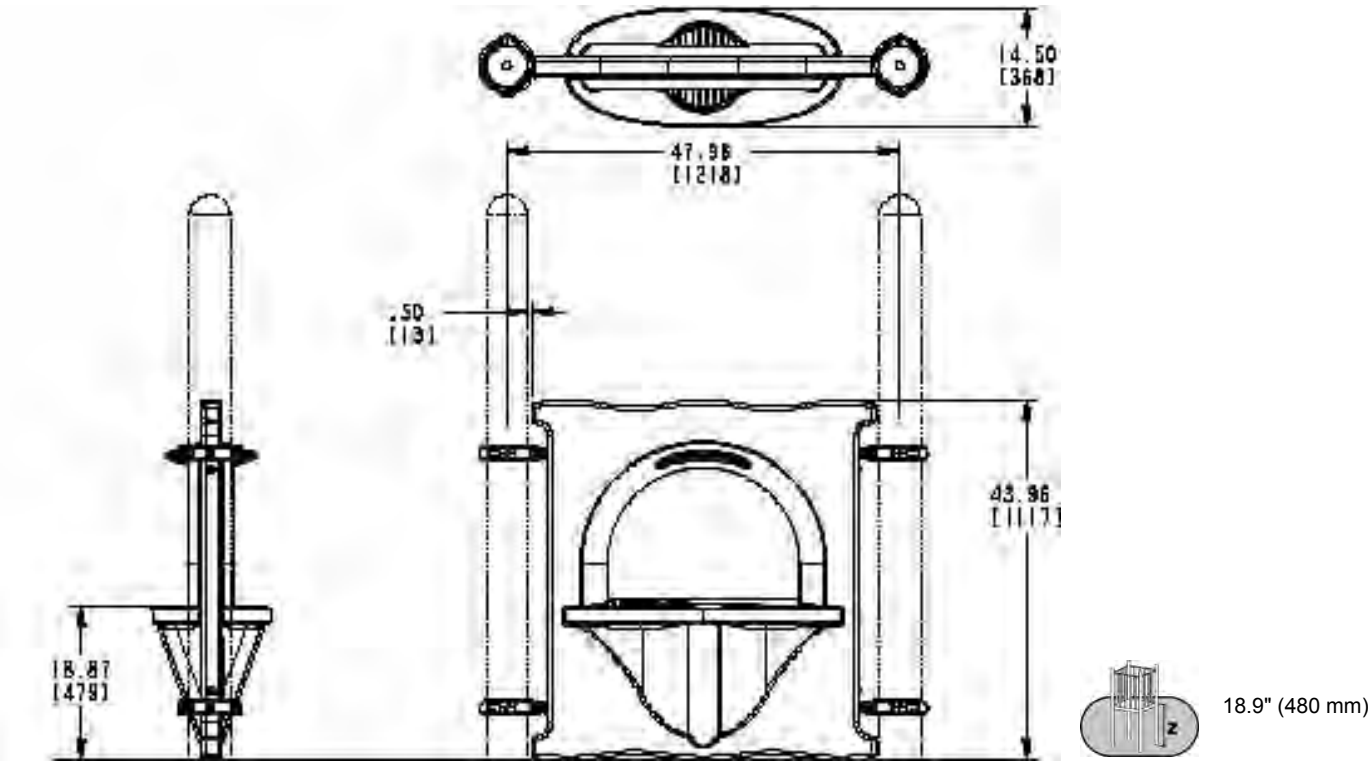
Installation Instructions

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



Footing Diagram

Top View

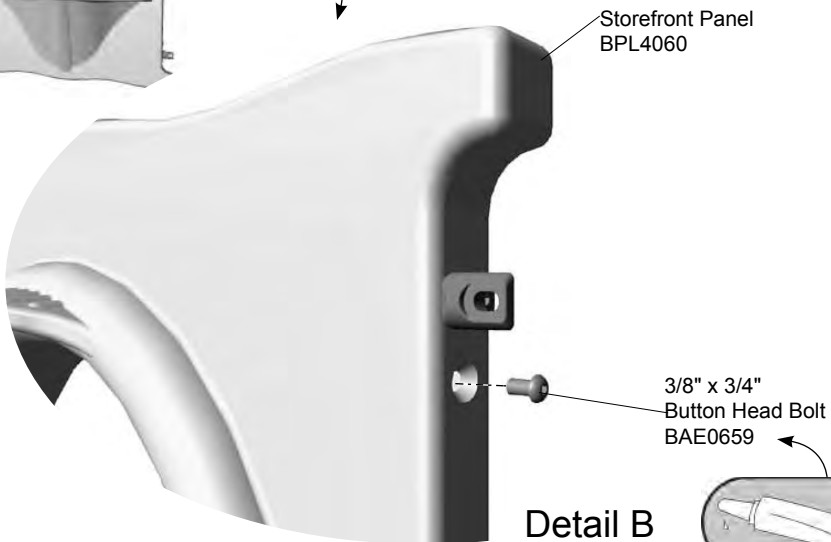
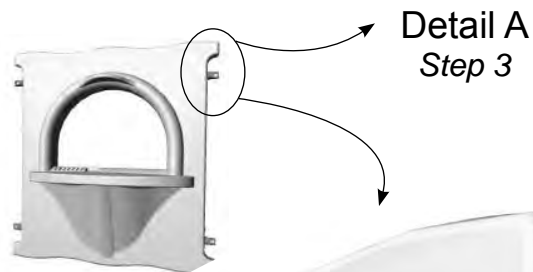
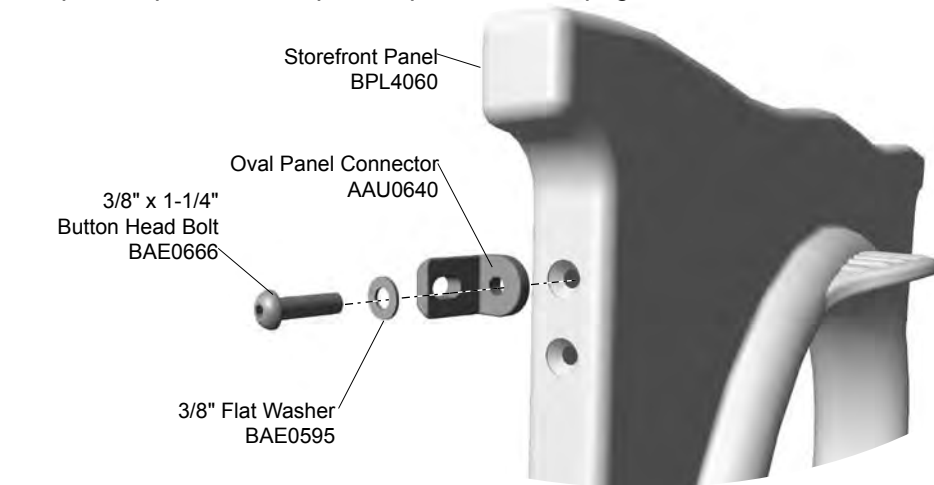


Elevation Views

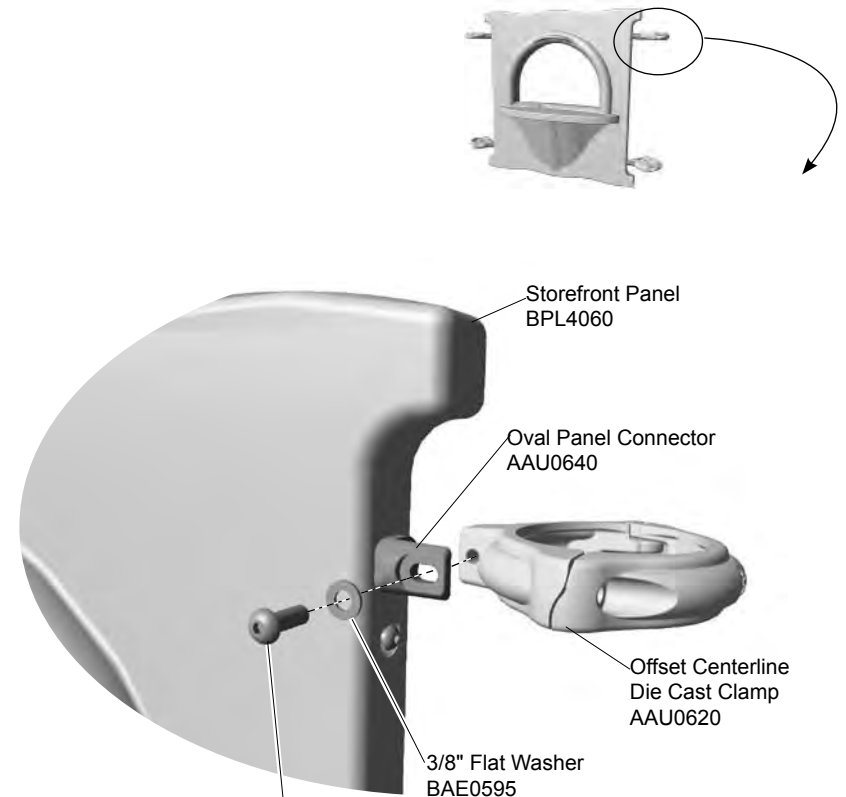


Installation Instructions

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



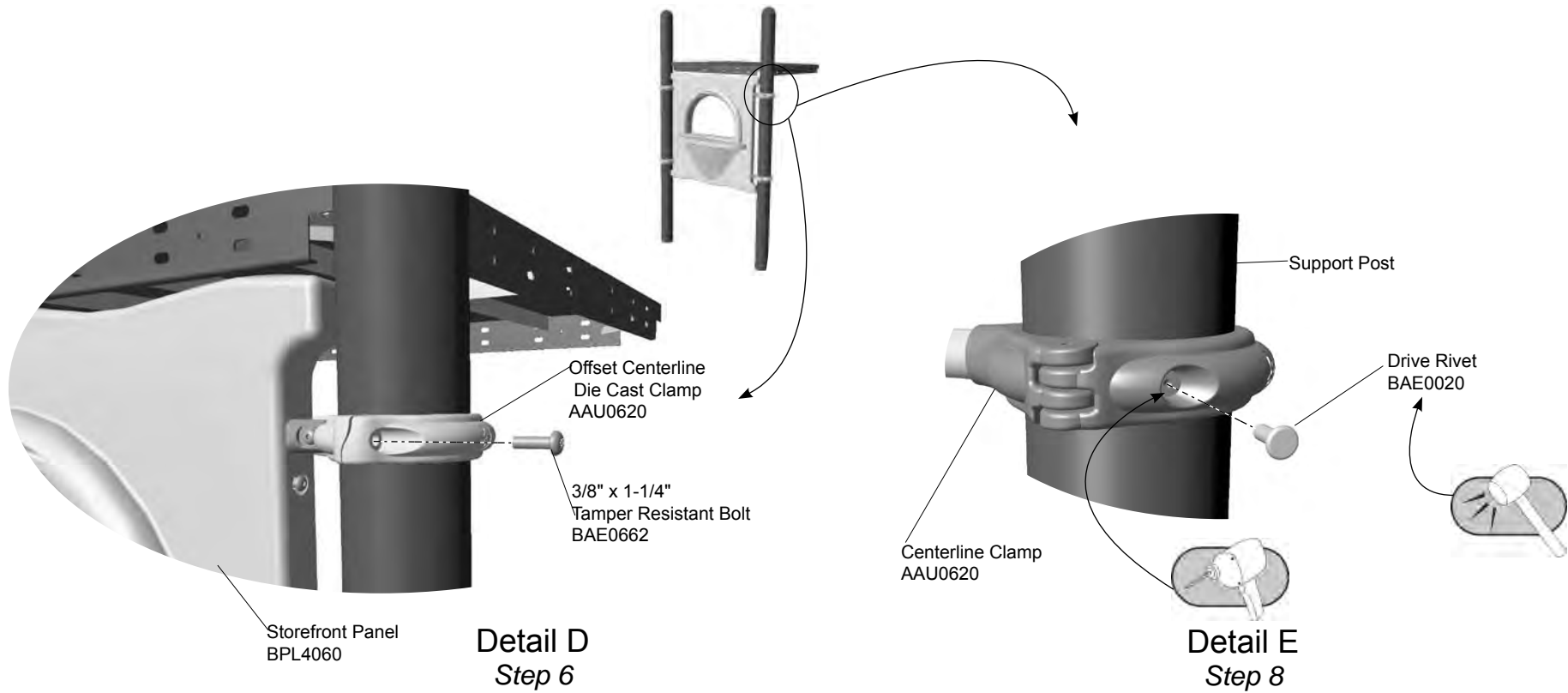
Detail B
Step 4



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

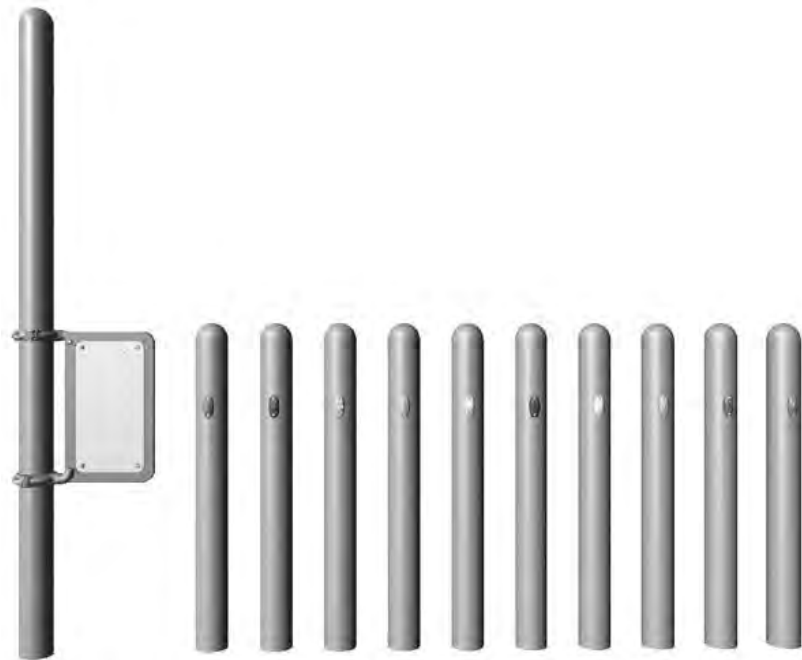
PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT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








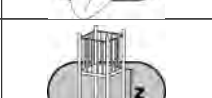
Playmakers® Model PM4648

Post Mount Scavenger Hunt

Installation Preparation

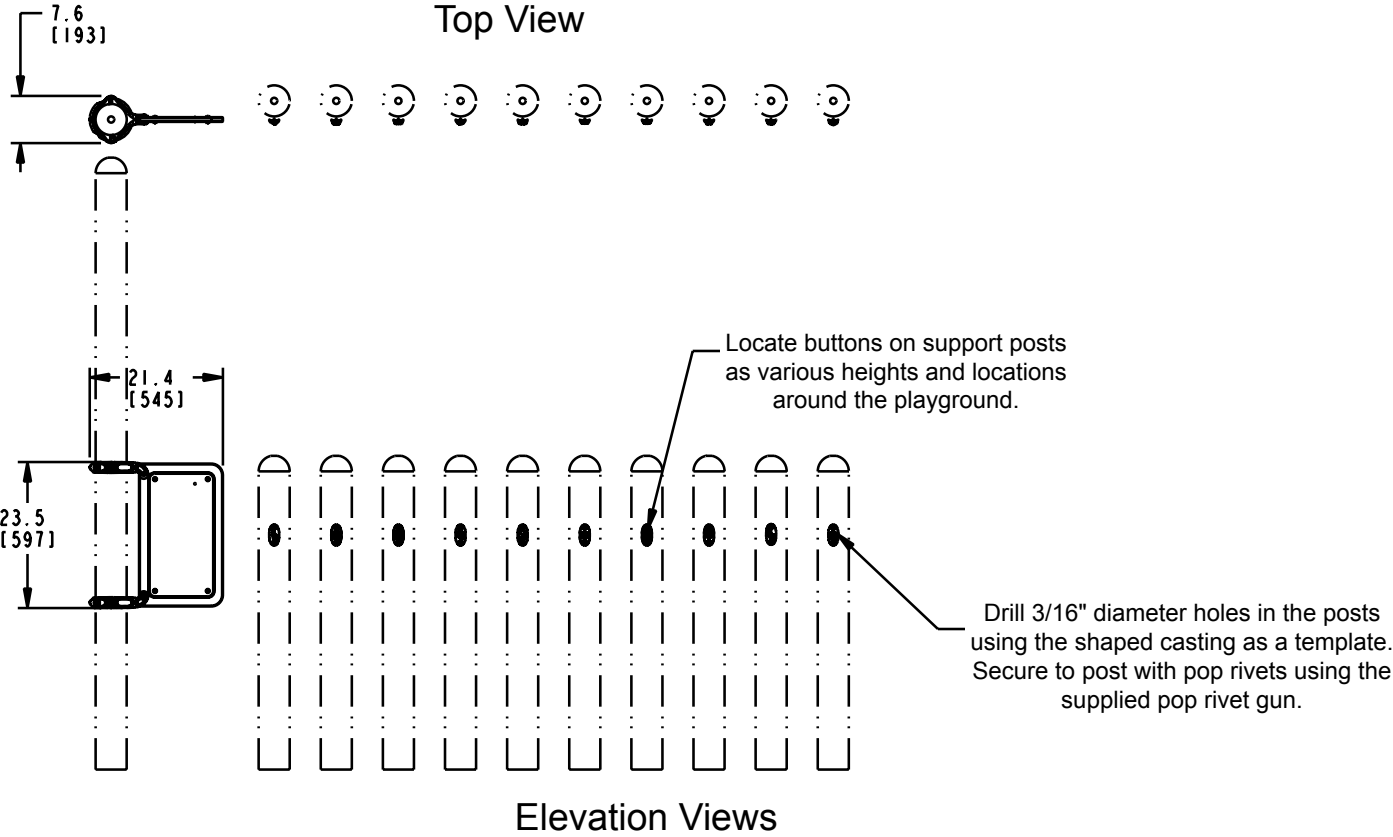
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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

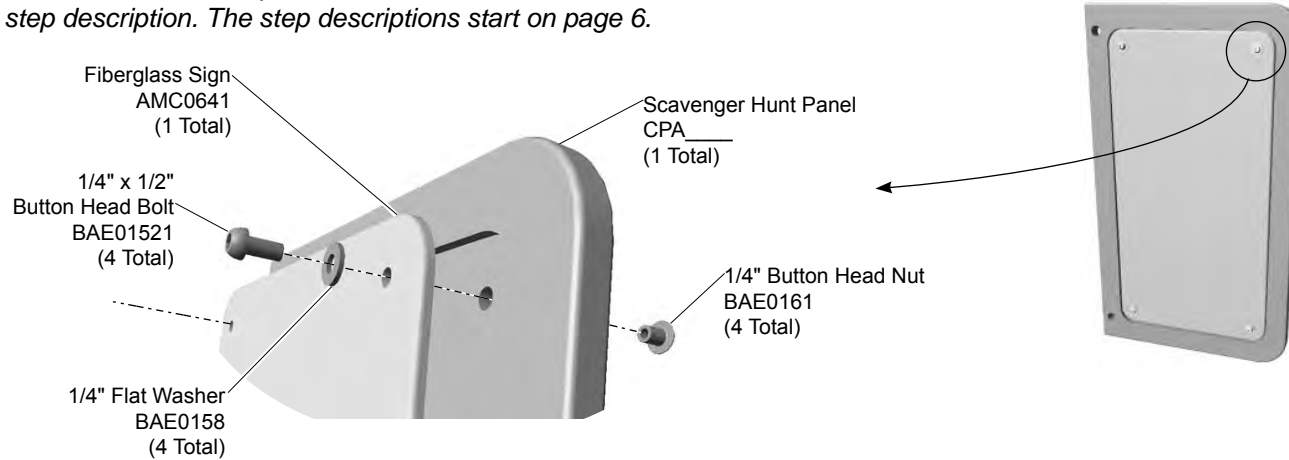
Installation Instructions

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



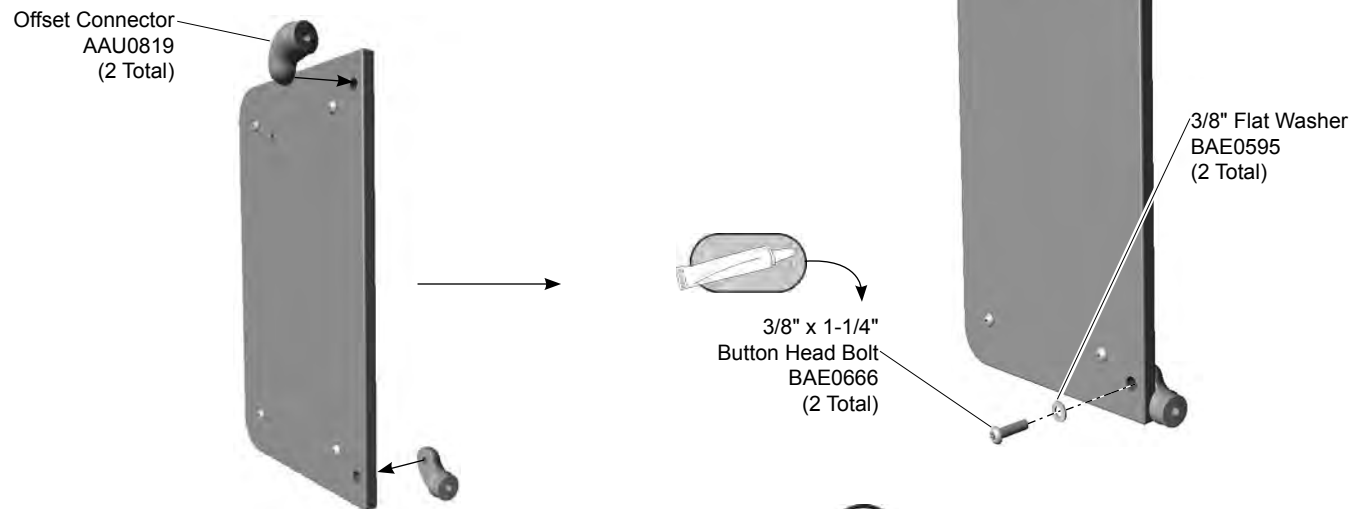
Installation Instructions

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

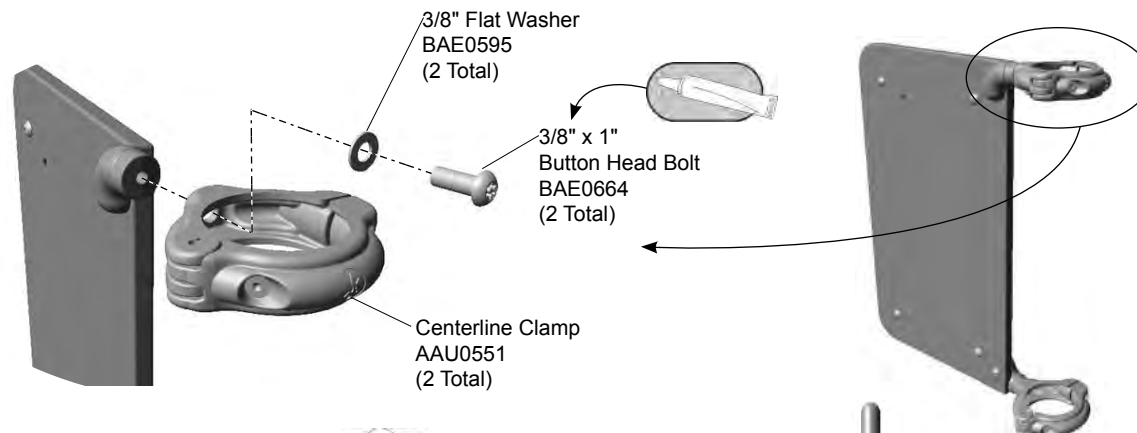
Attach the fiberglass sign to the panel.



Detail B Step 4

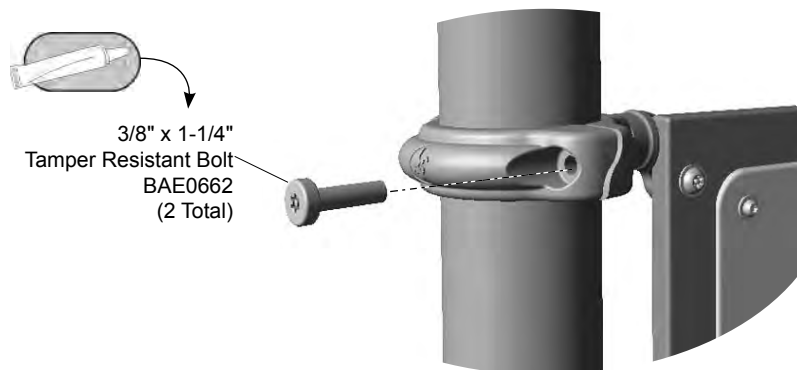
Attach the offset connectors to the panel.

Installation Instructions



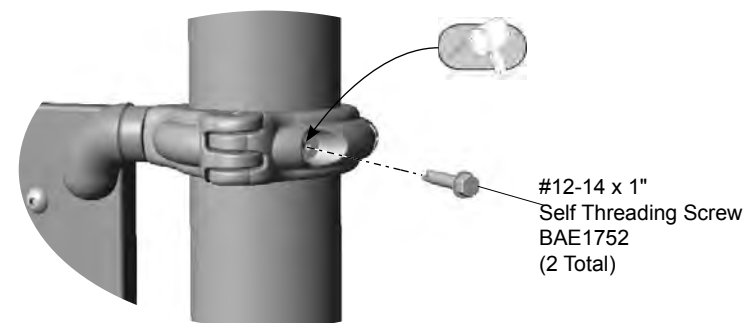
Detail C
Step 5

Attach clamps to the offset connectors.



Detail D
Step 6

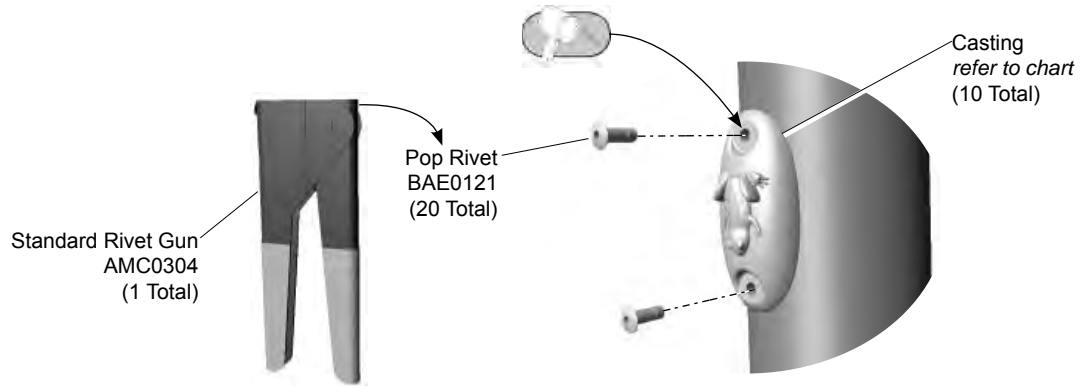
Attach panel to the support post.



Detail E
Step 8

Secure the clamps to the support posts.

Installation Instructions



Detail F

Step 9

Secure the castings to the posts.

Shape	Casting Part Number
Butterfly	AAU0641
Flower	AAU0642
Frog	AAU0643
Pickle	AAU0644
Star	AAU0645
Carrot	AAU0646
Apple	AAU0647
Clock	AAU0648
Fish	AAU0649
Smiley Face	AAU0650

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 fiberglass sign to the panel. See **Detail A**. Place the sign, graphics side facing out, into the routed side of the panel and attach as shown. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

Step 4: Attach the offset connectors to the panel. See **Detail B**. Position each offset connector against the straight edge of the panel, with one on the front side and one on the back side, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 5: Attach the clamps to the offset connectors. See **Detail C**. Position the neck of each clamp over an offset connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Make sure the clamps open in the same direction. Fully tighten the connections according to tightening torque specifications.

Step 6: Attach the panel to the support posts. See **Detail D**. Position the panel against the support post and close the clamps around the post. Apply a drop of thread locking adhesive to the bolt threads and 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.

Step 8: Secure the clamps to the support posts. See **Detail E**. After the equipment assembly is complete, install a self threading screw in each clamp to permanently secure it to the support post. Using a 3/16" drill bit, drill through the clamp and support post. Thread each screw through the clamp and into the support post. Fully tighten all fasteners according to tightening torque specifications.

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

Step 9: Secure the castings to the posts. See **Detail F**. Locate the castings on posts at various heights and locations around the playground. Drill 3/16" diameter holes in the posts using the shaped casting as a template. Secure to post with pop rivets using the supplied pop rivet gun.

PM4648 - POST MOUNT SCAVENGER HUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0641	CASTING - BUTTERFLY	1
AAU0642	CASTING - FLOWER	1
AAU0643	CASTING - FROG	1
AAU0644	CASTING - PICKLE	1
AAU0645	CASTING - STAR	1
AAU0646	CASTING - CARROT	1
AAU0647	CASTING - APPLE	1
AAU0648	CASTING - CLOCK	1
AAU0649	CASTING - FISH	1
AAU0650	CASTING - SMILEY FACE	1
AAU0819	CONNECTOR - 1.38" O.D. OFFSET ANGLE DOGLEG	2
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0641	SIGN - POST MOUNT SCAVENGER HUNT FIBERGLASS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0121	RIVET - 3/16" x .56 ALUMINUM POP	20
BAE01521	BOLT - 1/4"-20 x 1/2" 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	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	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE1668	MISC - 3/16" DRILL BIT	1
BAE1752	SCREW - SELF THREADING #12-14 x 1.00"	2
CPA_____	SHEET - POST MOUNT SCAVENGER HUNT	1



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Assembly View

Installation Instructions




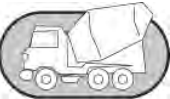



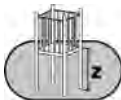
Playmakers® Model PM4288

Compliance Access Gate

Installation Preparation

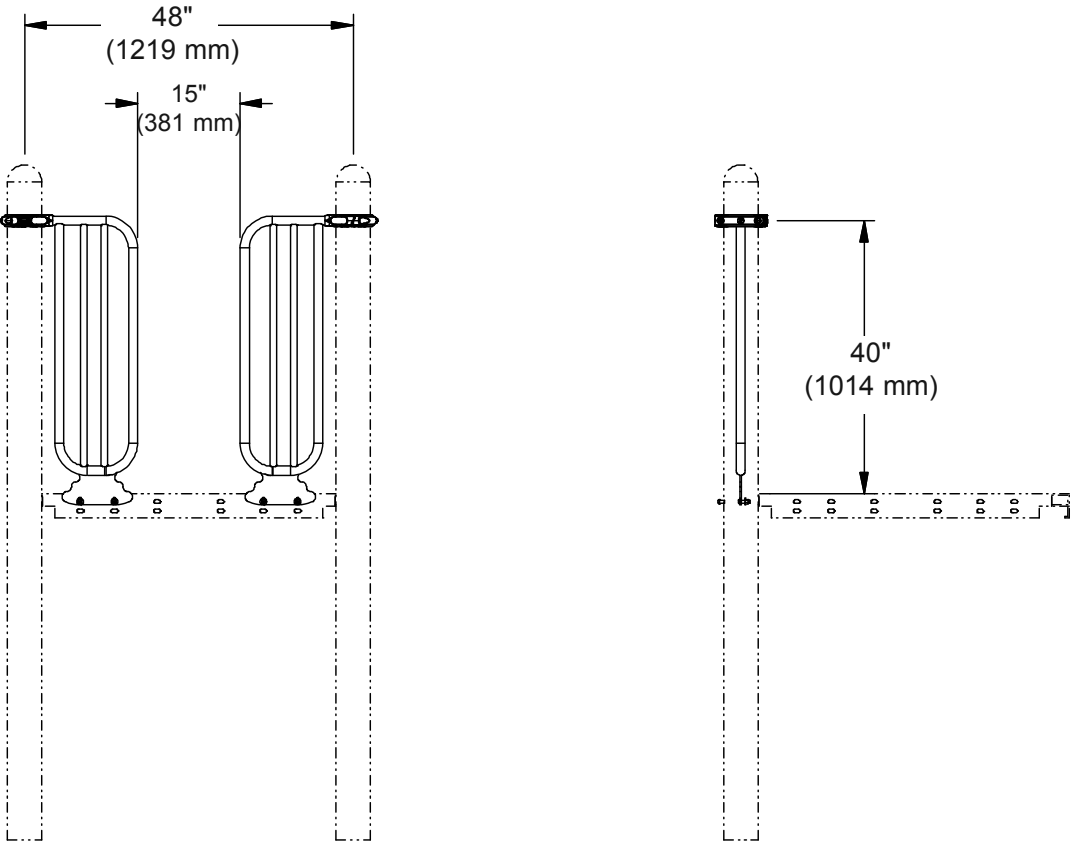
Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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

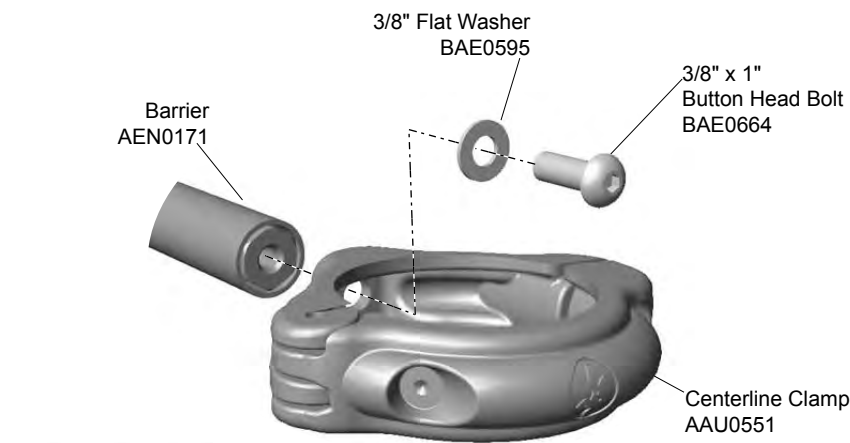
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



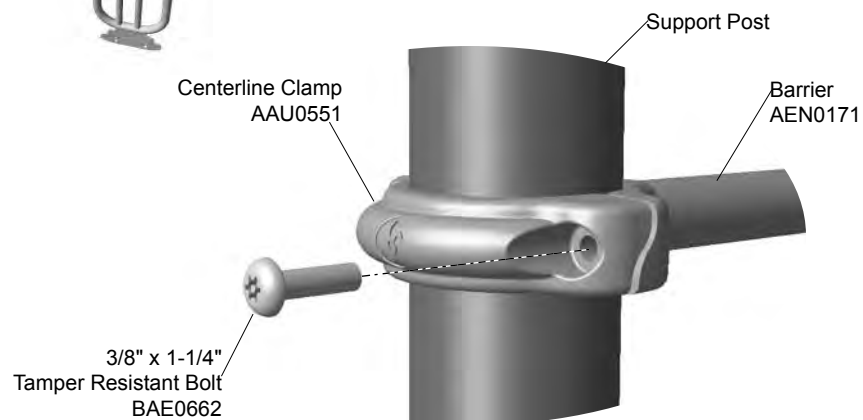
Elevation View

Installation Instructions

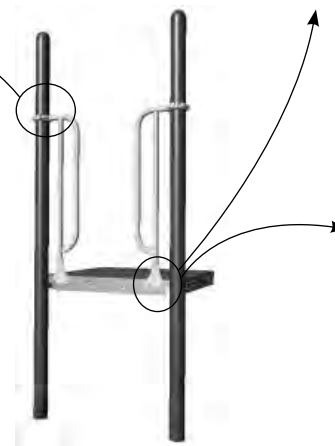
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



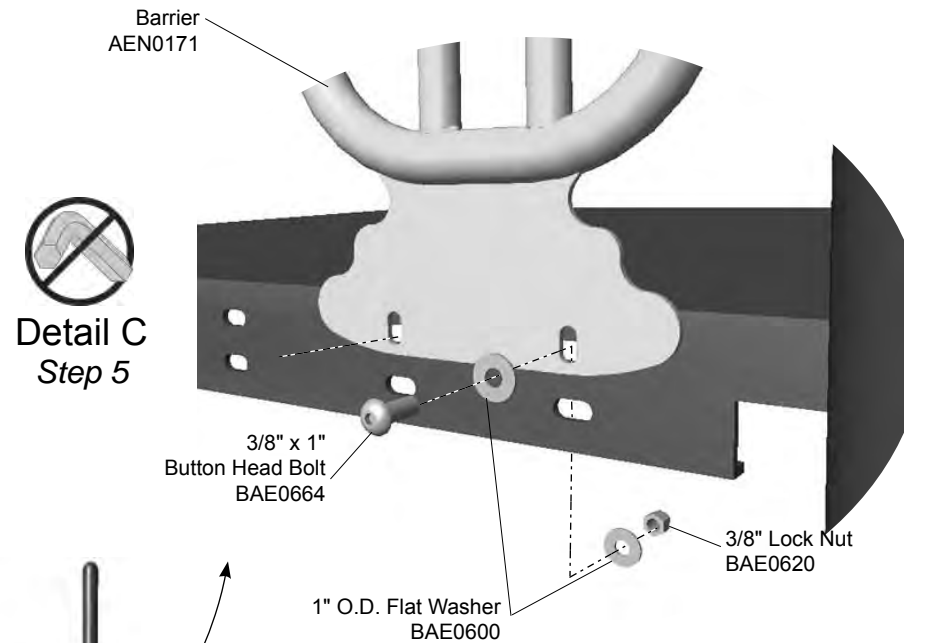
Detail A
Step 3



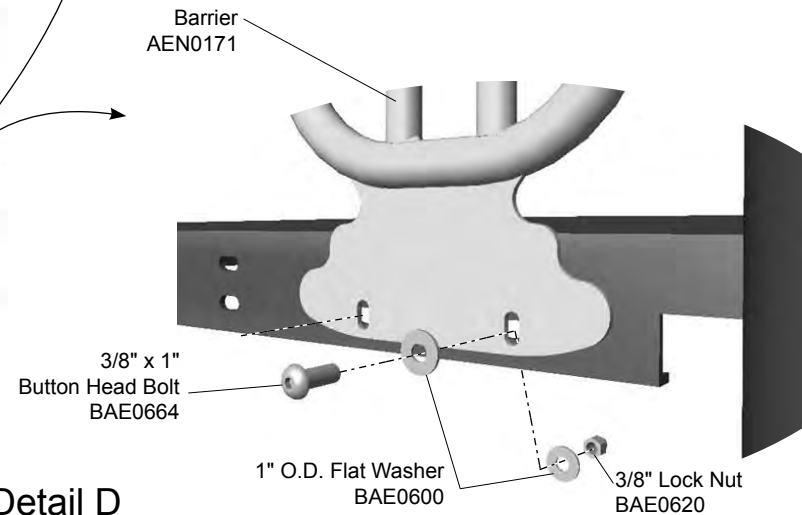
Detail B
Step 4



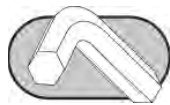
Detail D
Step 5



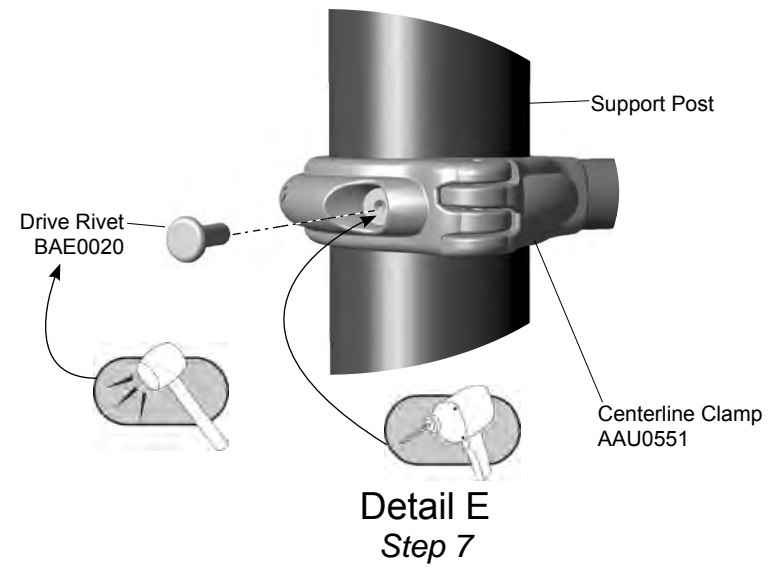
Detail C
Step 5



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	Deck Height
ZZPM7168	72" (1829 mm)
ZZPM7169	84" (2134 mm)
ZZPM7170	96" (2438 mm)

Installation Instructions

Playmakers® Models PM7168,
PM7169, and PM7170




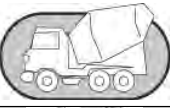



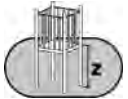
Tower Climber

6 ft. (1829 mm), 7 ft. (2134 mm), and 8 ft. (2438 mm)

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: 2-14

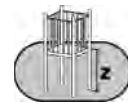
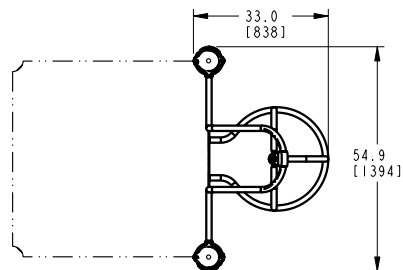
ICON KEY

	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

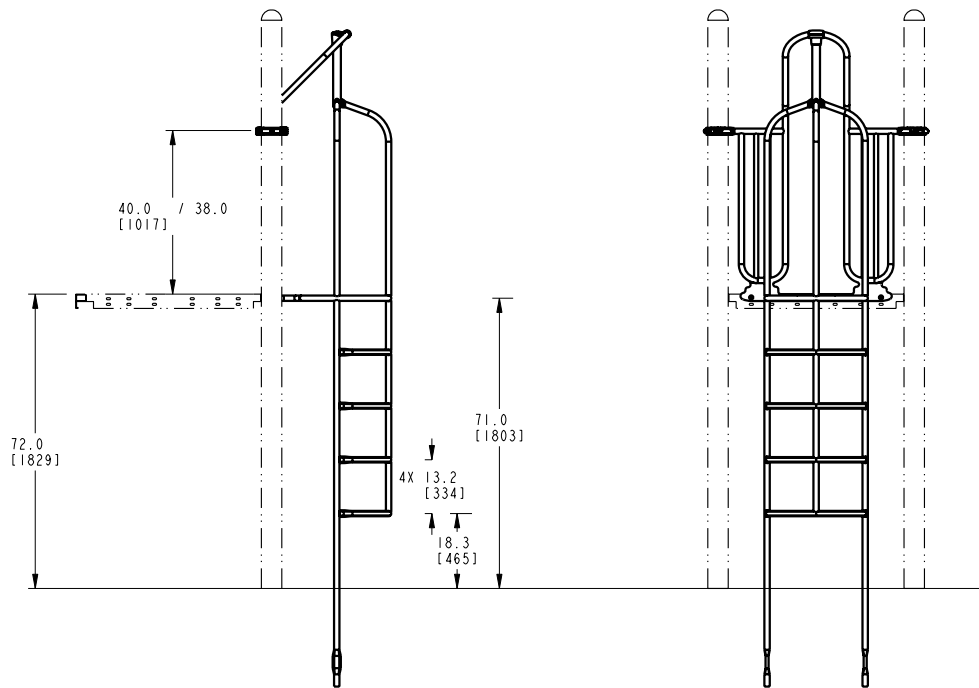
Installation Instructions

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

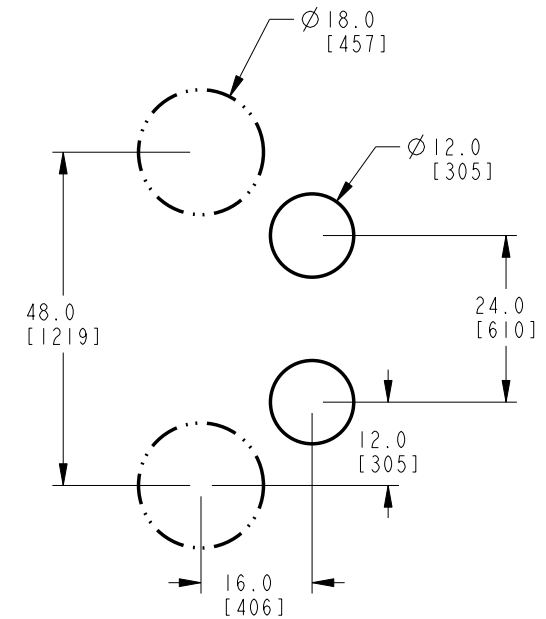
Top View



72" (1829 mm)



Elevation Views
ZZPM7168

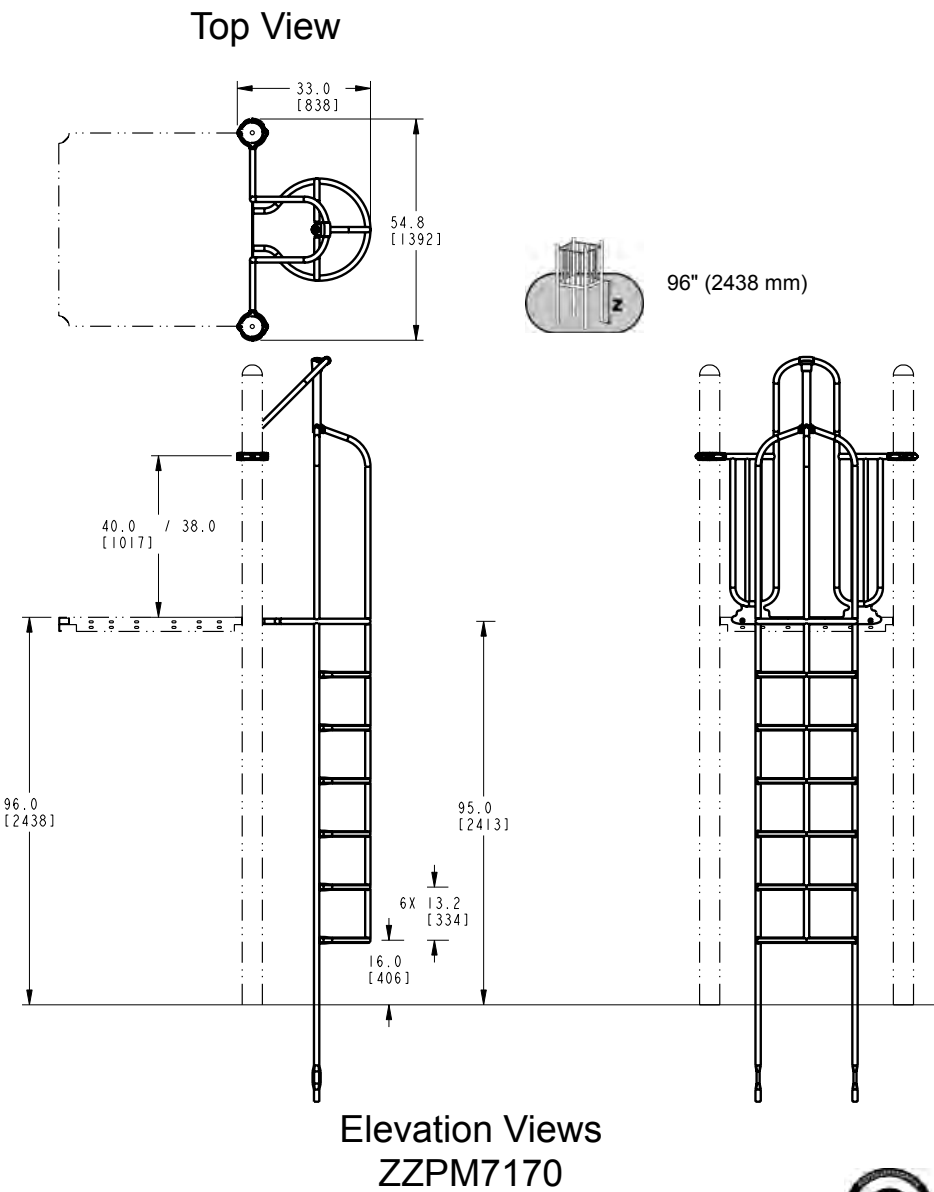
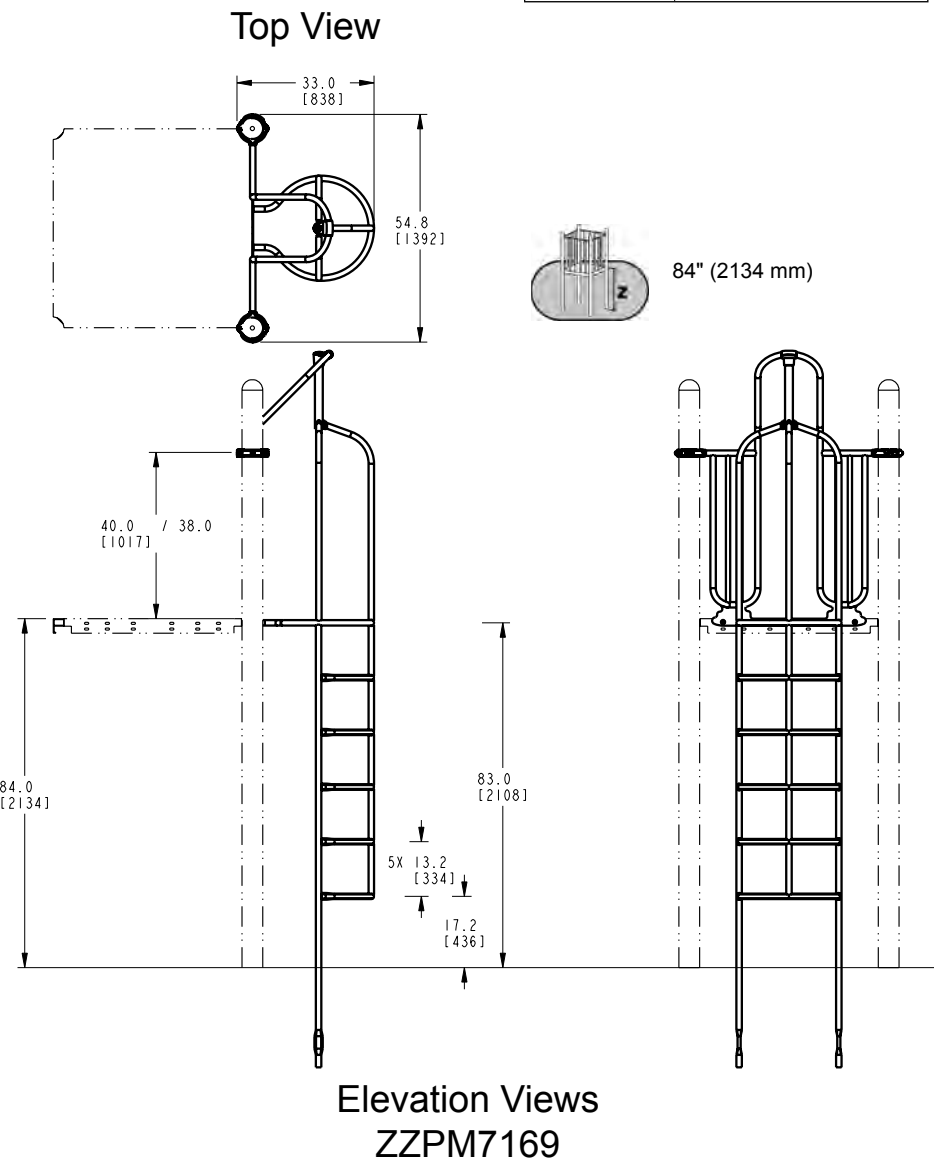


Footing Diagram
All Models



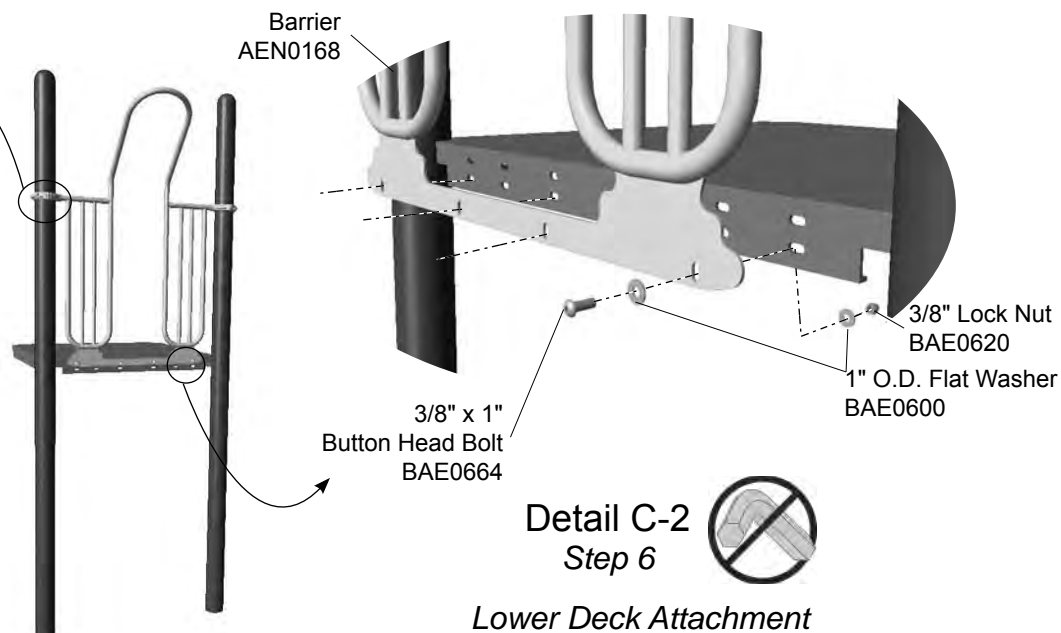
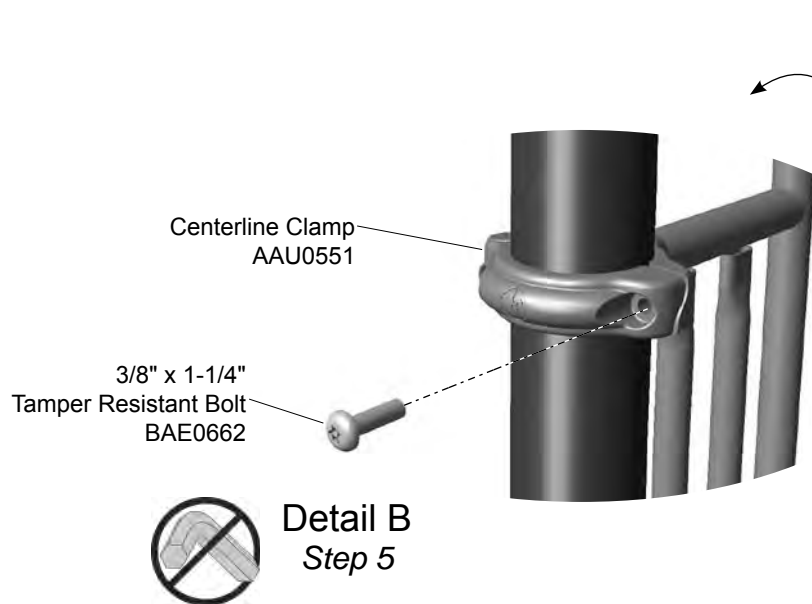
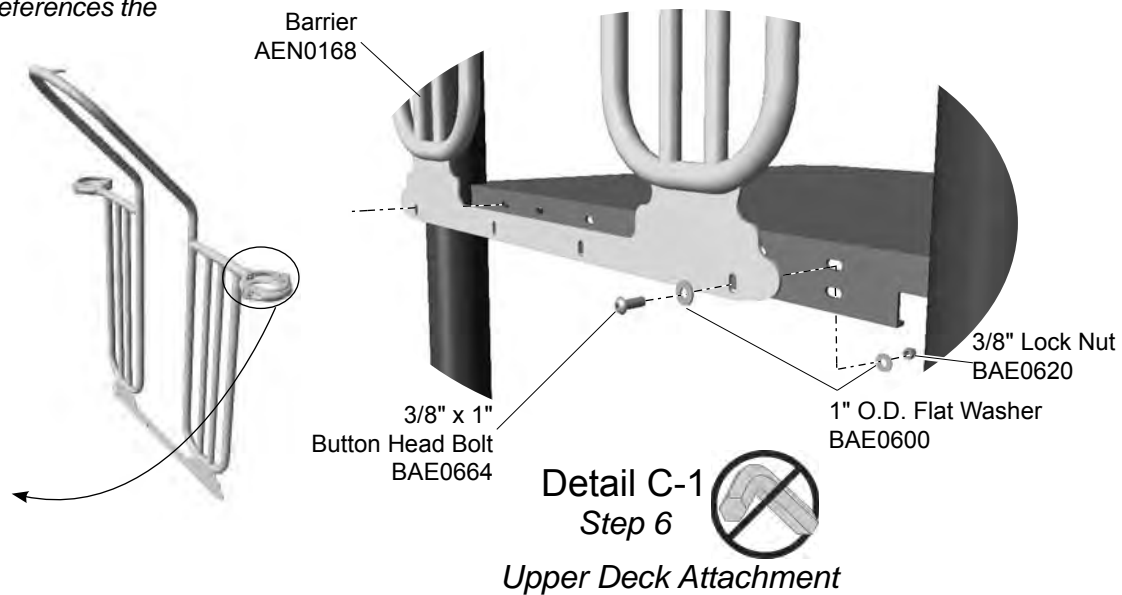
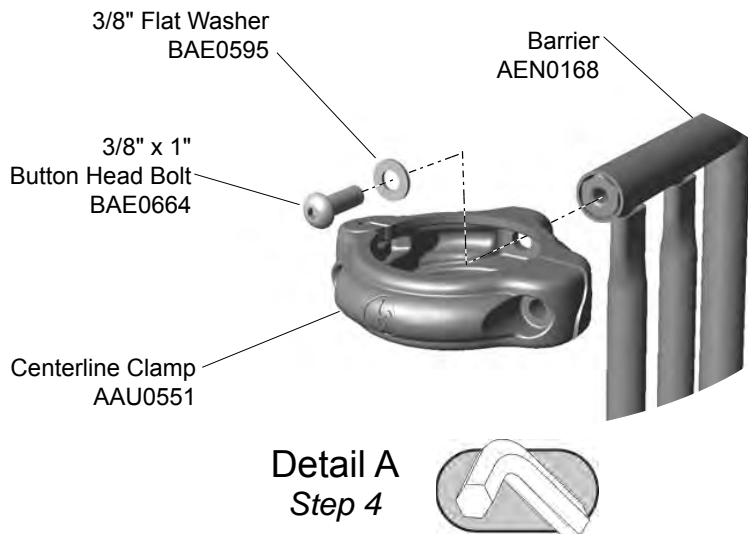
Installation Instructions

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

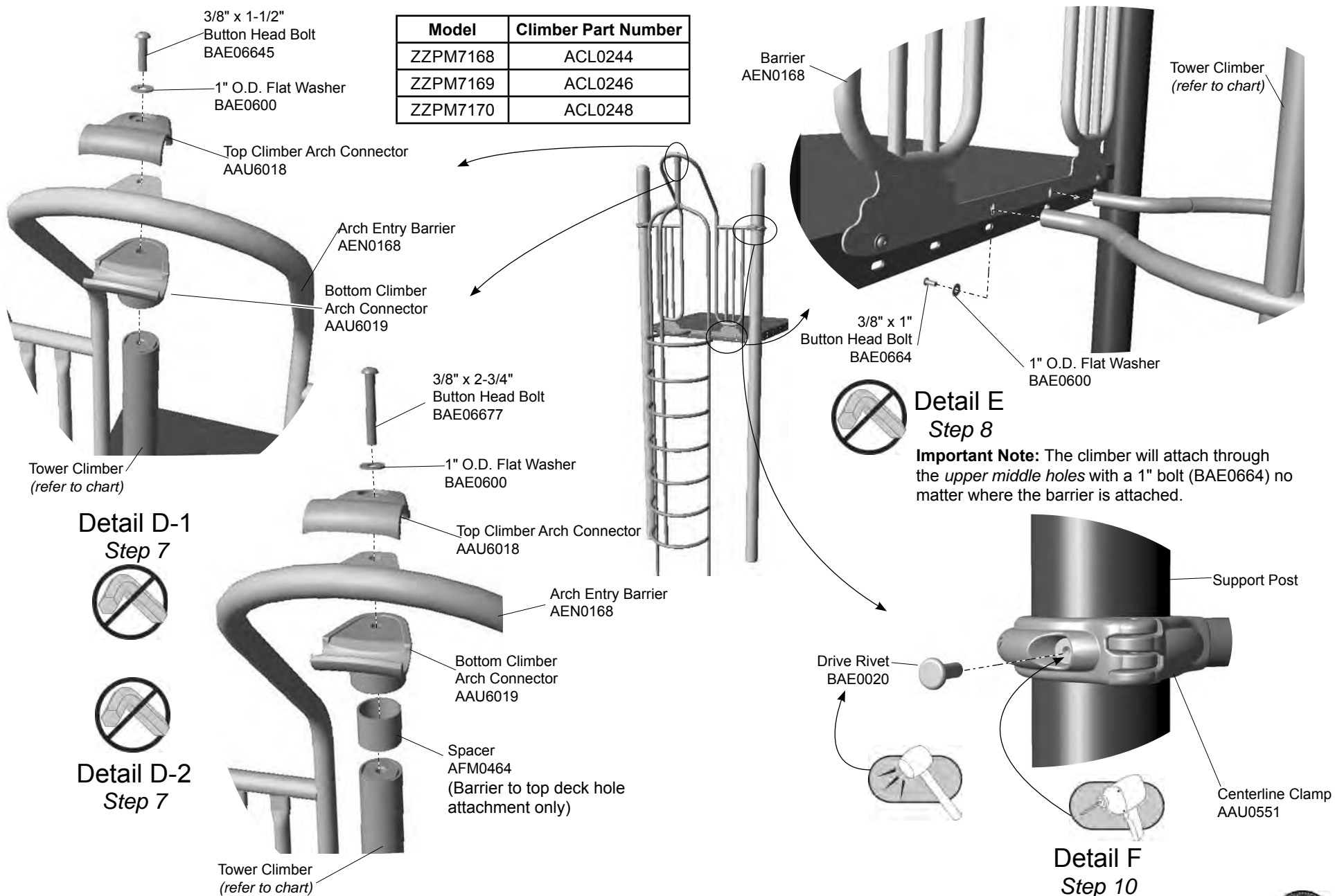


Installation Instructions

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



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** in the *Playmaker Guidelines*.

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-1 or Detail C-2**. Select the appropriate hardware. The barrier can be attached to either the *upper* or *lower* deck holes to avoid conflicts with adjacent clamps. Follow the appropriate direction.

Upper deck attachment: If the barrier attaches to the upper deck holes, there are (2) two connections. See **Detail C-1**. *Attach only the outside holes*. Attach as shown.

Lower deck attachment: If the barrier attaches to the lower deck holes, there are (4) four connections. See **Detail C-2**. *Connect through all four holes*. Attach as shown.

Note: The upper or lower deck attachment will effect connections in **Step 7**.

Attach the climber to the barrier.

Step 7: Attach the climber to the top of the barrier. See **Details D-1 and D-2**. Select the climber, the top and bottom climber connectors, the spacer, and the appropriate hardware. There is (1) one connection. Place the climber into the excavated footing. Align the climber with the holes in the barrier. If the barrier is mounted to the lower deck holes, *do not use the spacer*. Refer to **Detail D-1**. If the barrier is mounted in the *upper* set of deck holes, *use the spacer as shown*. Refer to **Detail D-2**. Do not fully tighten the connection.

Step 8: Attach the climber to the barrier/deck. See **Detail E**. Select the appropriate hardware. There are (2) two connections. Align the climber with the *upper* holes in the barrier. Attach as shown.

Important Note: The climber will attach through the *upper middle holes* with a 1" bolt (BAE0664) no matter where the barrier is attached in **step 6**.

Final Details.

Step 9: 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 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.

PM7168 - 6 ft. (1829 mm) TOWER CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0244	CLIMBER - 6' TOWER	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	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	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1

PM7170 - 8 ft. (2438 mm) TOWER CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0248	CLIMBER - 8' TOWER	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	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	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1

PM7169 - 7 ft. (2134 mm) TOWER CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0246	CLIMBER - 7' TOWER	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	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	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1





Assembly View (representative model)

Installation Instructions Playmakers®

Models PM7217, PM7218 and PM7219
36 in. (914 mm), 48 in. (1219 mm)
and 60 in. (1524 mm) Rope Ascension

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 3 man-hours
Concrete Required: 0.18 cubic yard (0,15 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

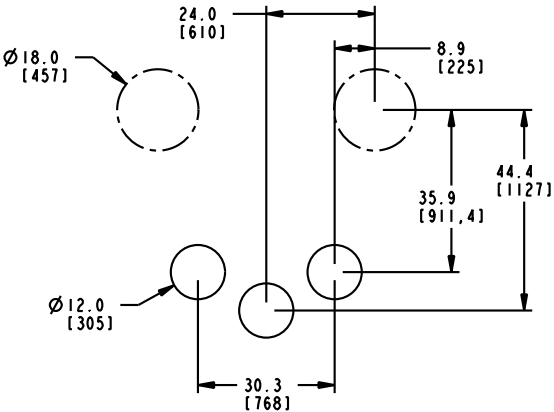
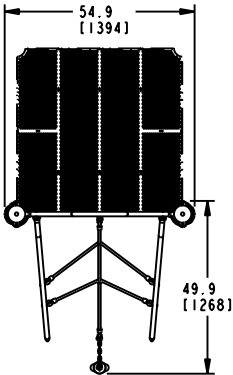
ICON KEY

	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

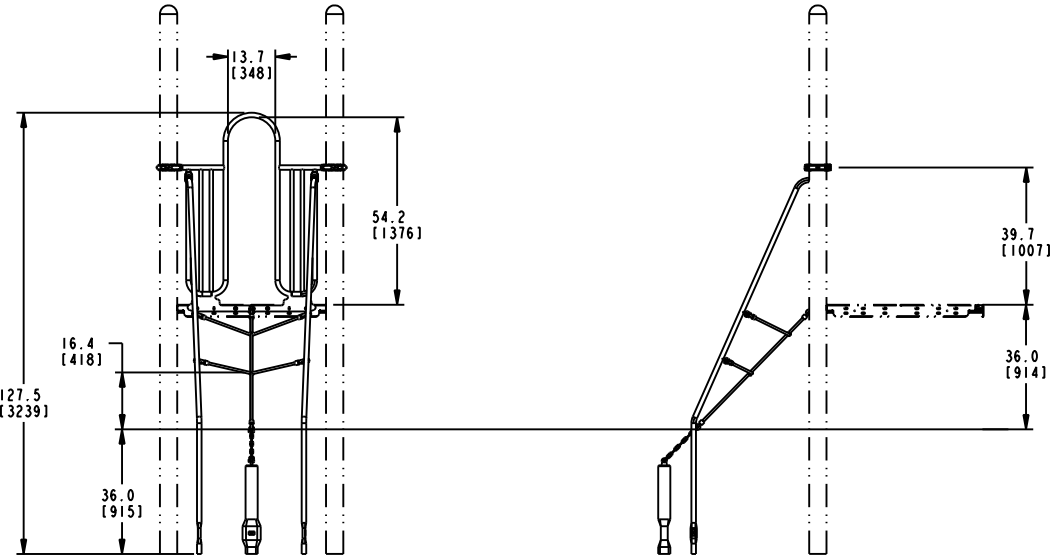
Installation Instructions

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

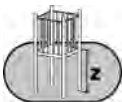
Top View



Footing Diagram



Elevation Views
PM7217



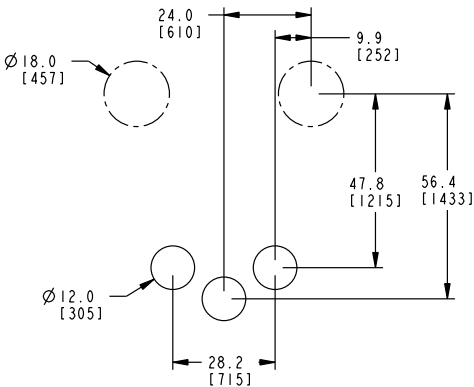
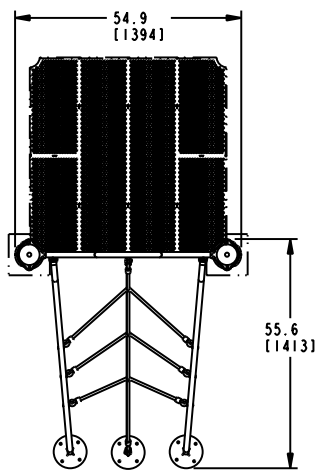
36" (914 mm)



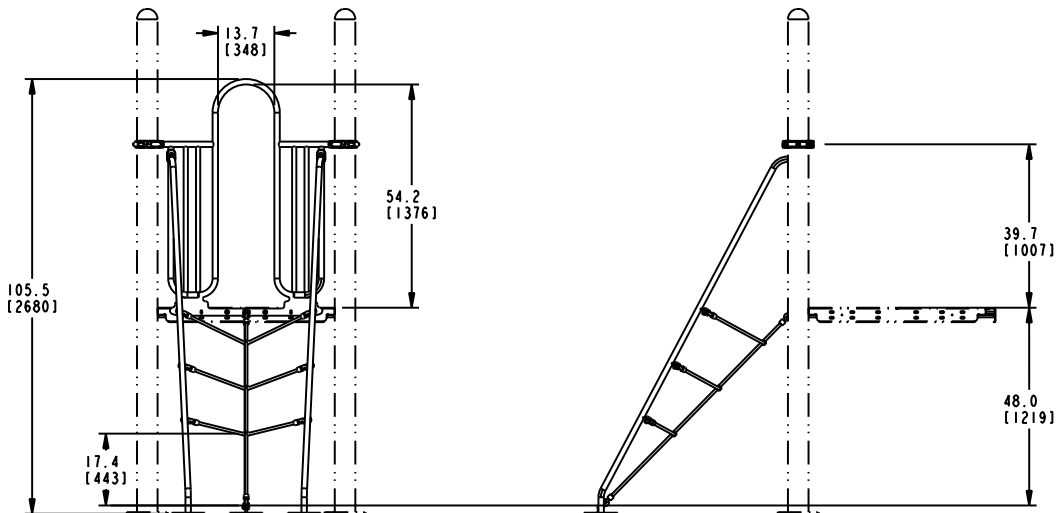
Installation Instructions

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

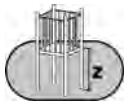
Top View



Footing Diagram



Elevation Views
PM7218



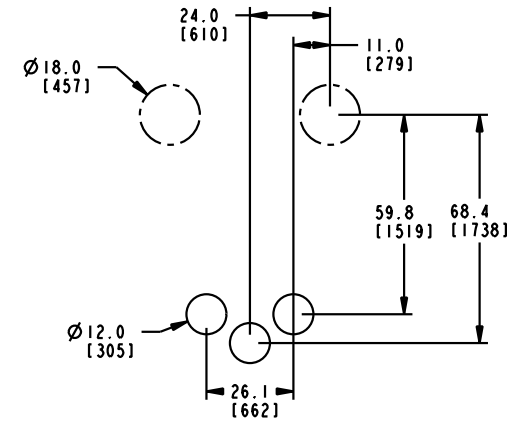
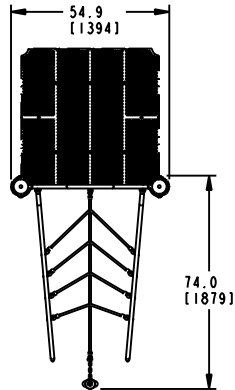
48" (1219 mm)



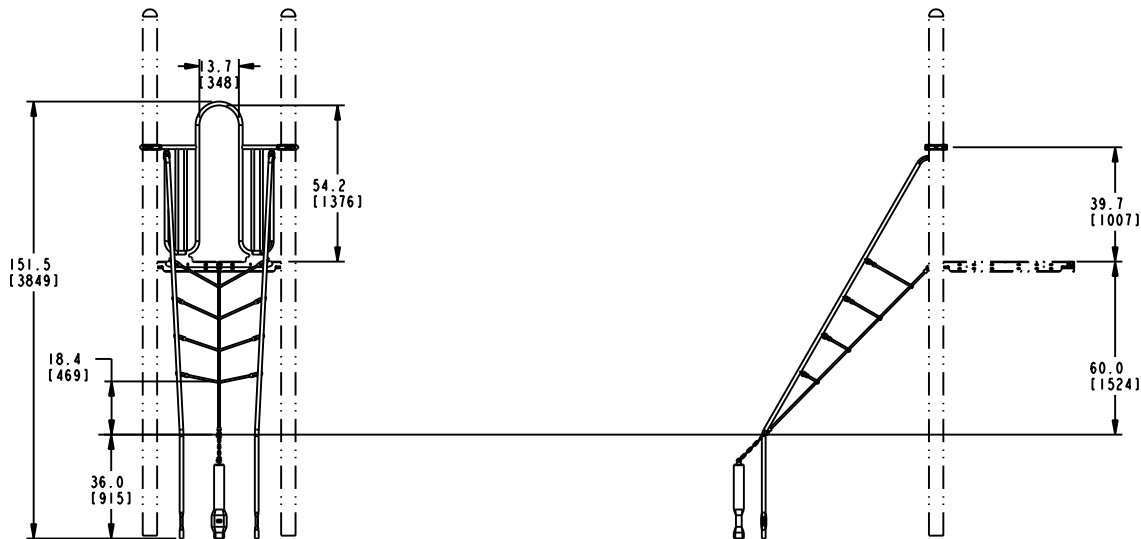
Installation Instructions

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

Top View

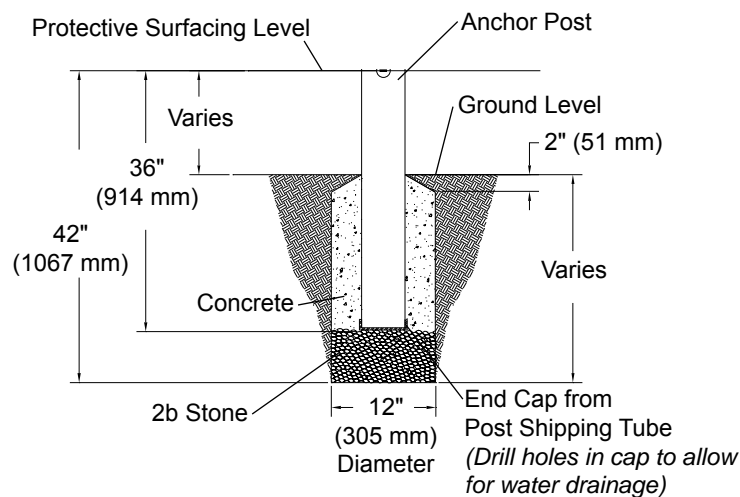


Footing Diagram

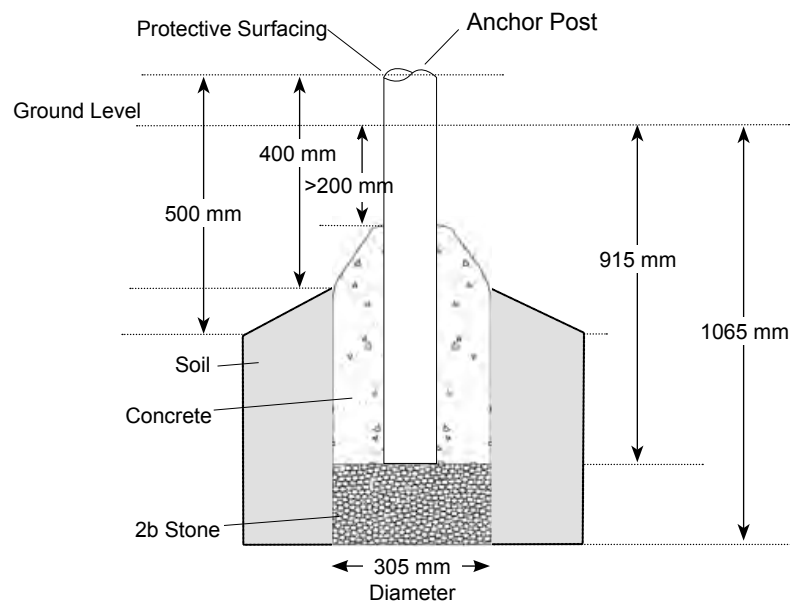


Elevation Views
PM7219

Installation Instructions



Anchor Post Footing Detail (ASTM/CSA)



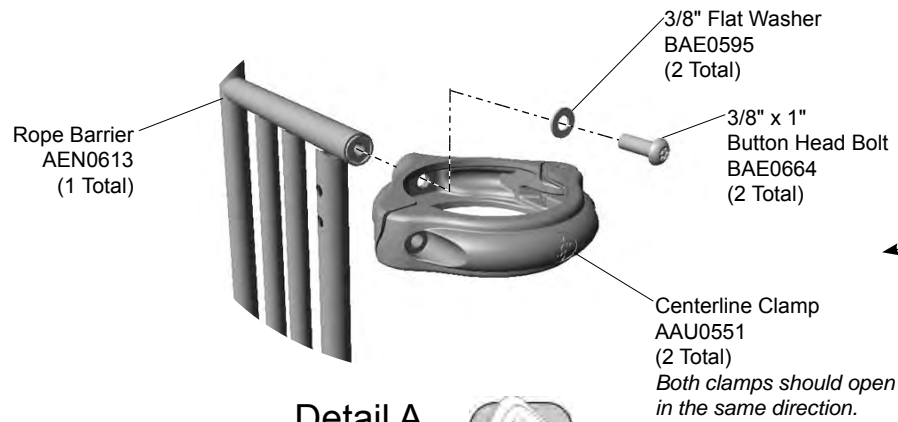
Footing Detail Anchor Post (EN)

FOOTING NOTES

- Anchor 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).
- 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 or porous block.
- 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.

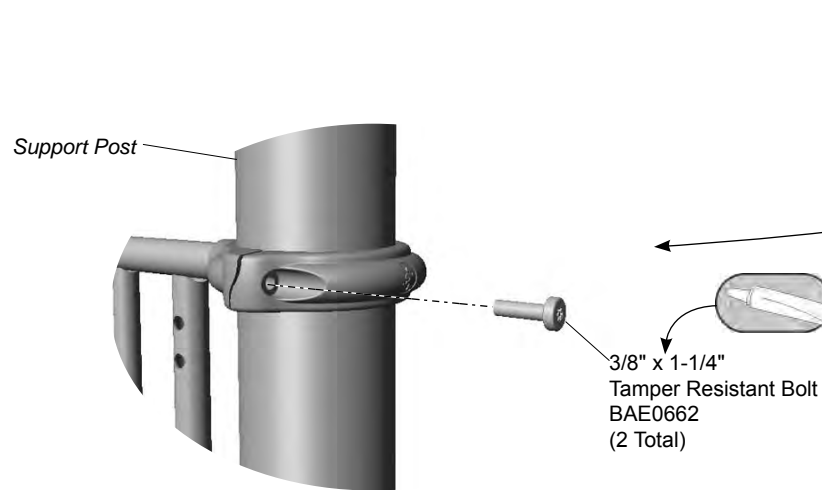
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 12.



Detail A
Step 4

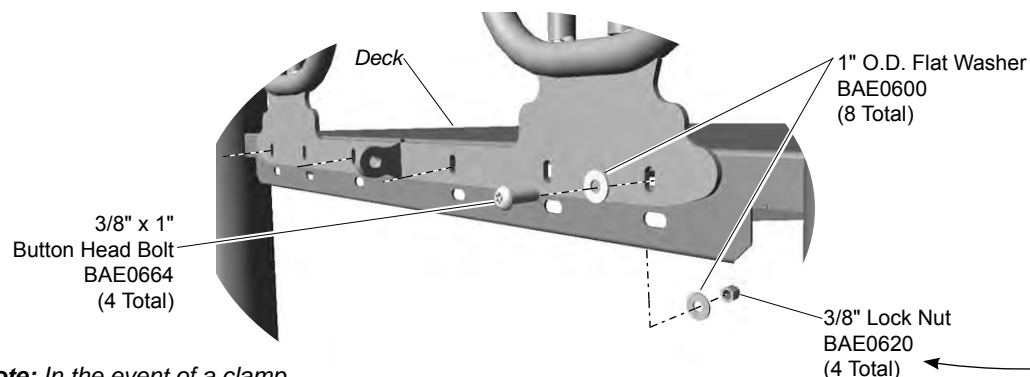
Attach the clamps to the rope barrier.



Detail B
Step 5

Attach the rope barrier to the support posts.

Installation Instructions



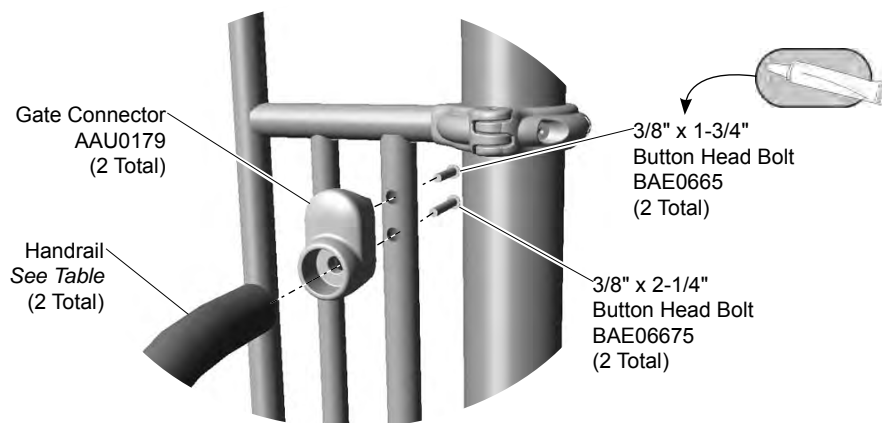
Note: In the event of a clamp conflict the barrier may be attached to the bottom holes in the deck.



Detail C Step 6

Attach the rope barrier to the deck.

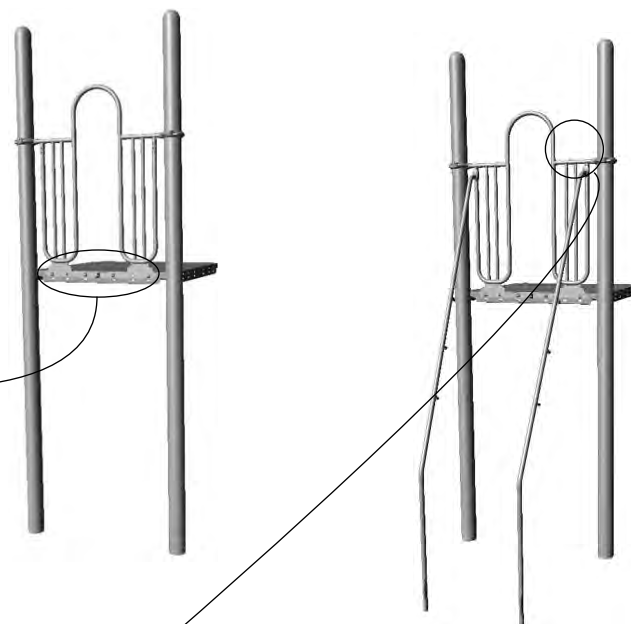
Model	Deck Height	Handrail Part Number
PM7217	36 in. (914 mm)	AFR1615
PM7218	48 in. (1219 mm)	AFR1616
PM7219	60 in. (1524 mm)	AFR1617



Detail D-1 - Rope barrier attached to the upper holes in the deck.

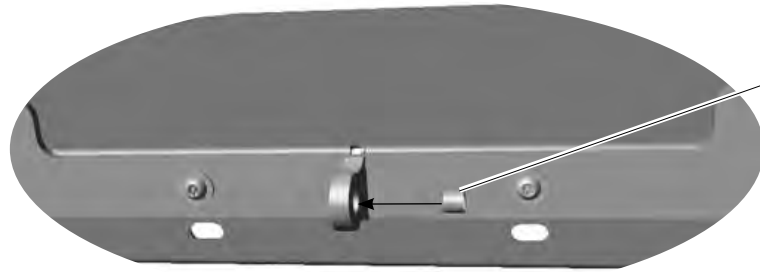
Details D-1 and D-2 Step 7

Attach the handrails to the rope barrier.



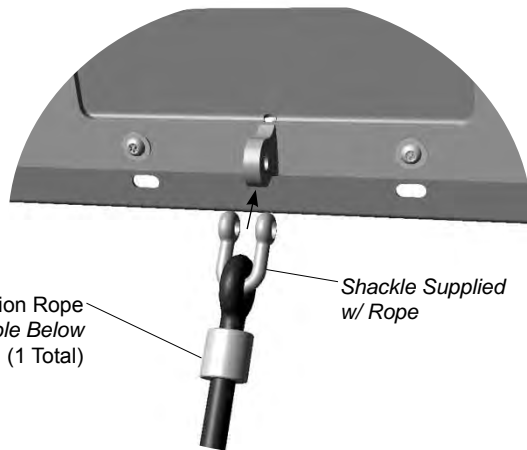
Detail D-2 - Rope barrier attached to the lower holes in the deck.

Installation Instructions



.50" Bushing
BAE1704
(1 Total)

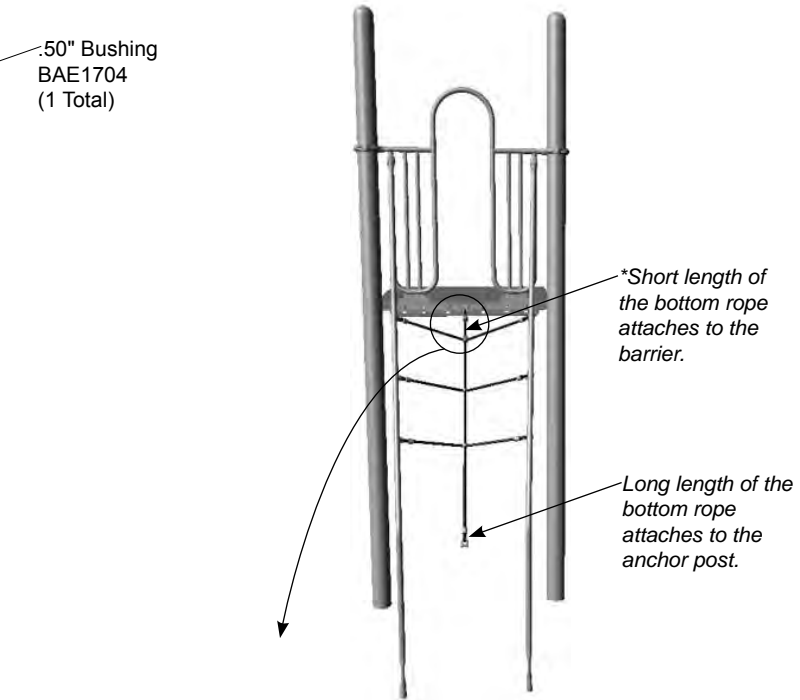
Detail E-1 - Insert the bushing into the rope barrier mounting tab.



Ascension Rope
See Table Below
(1 Total)

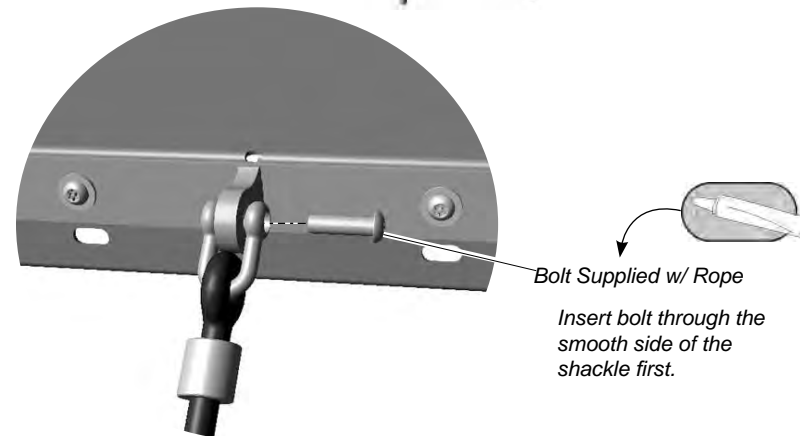
Shackle Supplied
w/ Rope

Detail E-2 - Place the shackle on the *short length of the bottom rope over the rope barrier mounting tab.



*Short length of the bottom rope attaches to the barrier.

Long length of the bottom rope attaches to the anchor post.



Bolt Supplied w/ Rope
Insert bolt through the smooth side of the shackle first.

Detail E-3 - Attach the rope to the rope barrier mounting tab.

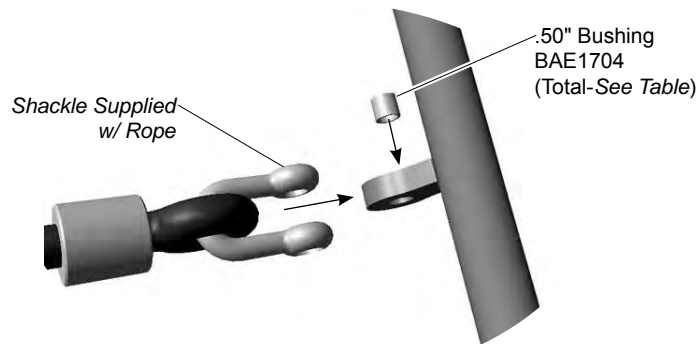
Model	Deck Height	Rope Part Number
PM7217	36 in. (914 mm)	AMC0652
PM7218	48 in. (1219 mm)	AMC0654
PM7219	60 in. (1524 mm)	AMC0656

Details E-1, E-2 and E-3
Step 8

Attach the rope to the rope barrier.

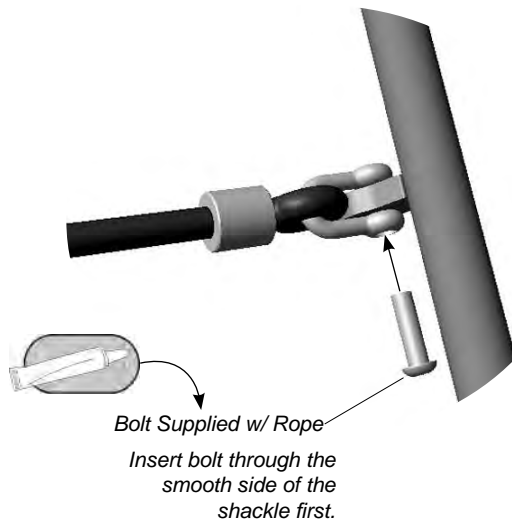


Installation Instructions

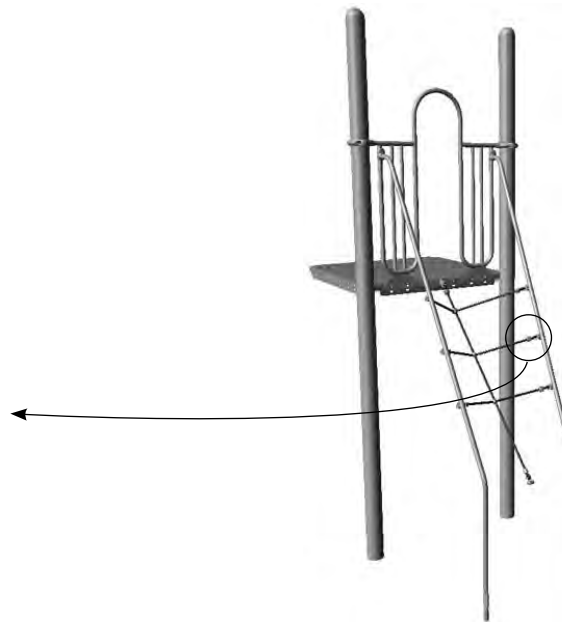


Detail F-1 - Insert a bushing into each mounting tab on the handrails and then place a rope shackle over each tab.

Model	Rope Part Number	Number of Bushings
PM7217	AMC0652	4
PM7218	AMC0654	6
PM7219	AMC0656	8



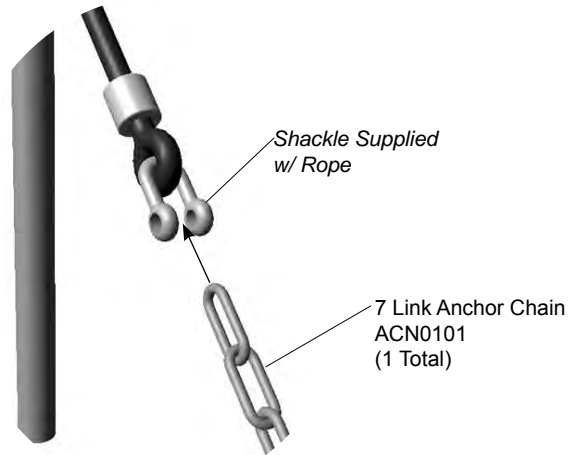
Detail F-2 - Attach the rope to the handrail mounting tab.



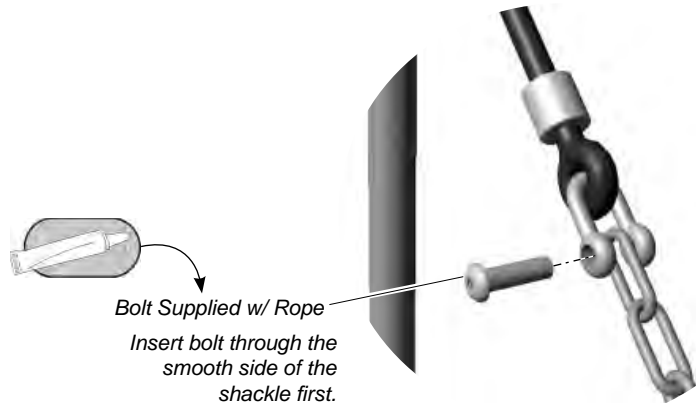
Details F-1 and F-2
Step 9
Attach the rope to the handrails.



Installation Instructions



Detail G-1 - Insert the last link on one end of the chain between the rope shackle.



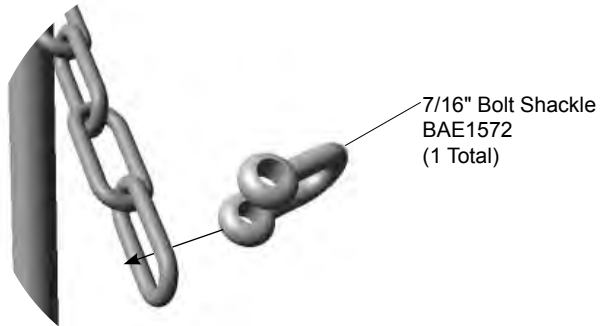
Detail G-2 - Attach the chain to the rope shackle.

Details G-1 and G-2
Step 10

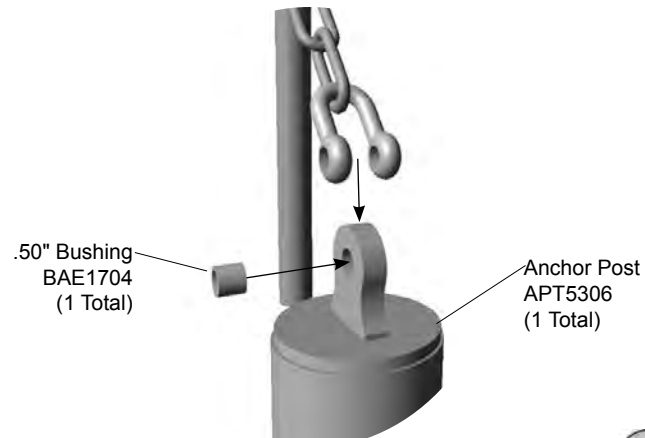
Attach the anchor chain to the rope.



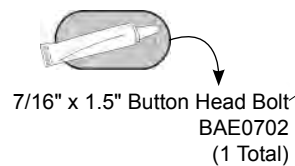
Installation Instructions



Detail H-1 - Insert a bolt shackle through the last link on the other end of the chain.



Detail H-2 - Insert a bushing into the mounting tab on the anchor post.

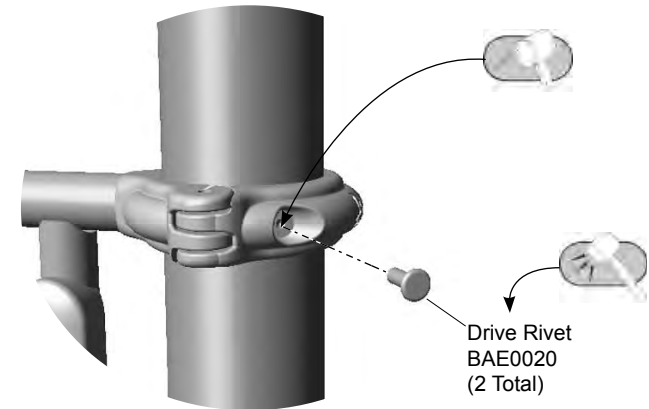


Detail H-3 - Attach the chain to the anchor post.

Details H-1, H-2 and H-3

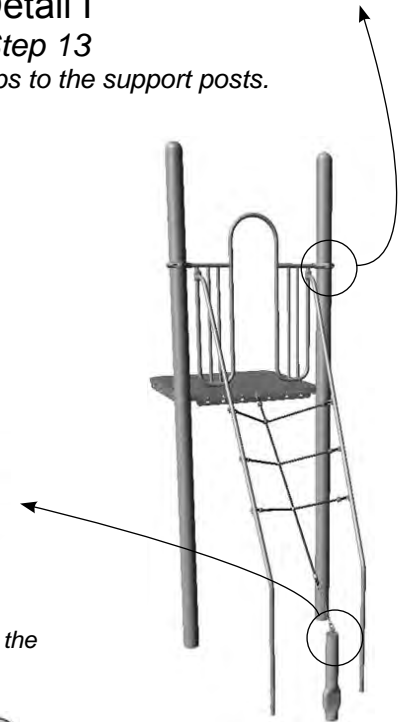
Step 11

Attach the anchor chain to the anchor post.



Detail I
Step 13

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 **Anchor Post Footing Detail** on **page 5** of this document.

Step 4: Attach the clamps to the rope barrier. See **Detail A**. Position a clamp against each side of the barrier top rail and attach as shown. Ensure both clamps open in the same direction. 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 rope barrier to the support posts. See **Detail B**. Position the barrier against the deck and close the clamps around the support post. Ensure the mounting tab on the bottom of the barrier is to the outside, apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 6: Attach the rope barrier to the deck. See **Detail C**. Align the holes in the bottom of the barrier with the deck holes and attach as shown.

Note: In the event of a clamp conflict the barrier may be attached to the bottom holes in the deck.

Step 7: Attach the handrails to the rope barrier. See **Details D-1 and D-2**. Place the handrails in their footings and against the barrier, apply a drop of thread locking adhesive to the threads on the shorter bolt and attach as shown.

Step 8: Attach the rope to the rope barrier. See **Details E-1, E-2 and E-3**. Insert a bushing into the rope barrier mounting tab and place the shackle on the short length of the Ascension bottom rope over the tab, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connection.

Step 9: Attach the rope to the handrails. See **Details F-1 and F-2**. Insert a bushing into each mounting tab on the handrails and then place a rope shackle over each tab, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connection.

Step 10: Attach the anchor chain to the rope. See **Details G-1 and G-2**. Insert the last link on one end of the chain between the rope shackle, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connection.

Step 11: Attach the anchor chain to the anchor post. See **Details H-1, H-2 and H-3**. Insert a bolt shackle through the last link on the other end of the chain. Insert a bushing into the mounting tab on the anchor post and place the shackle over the tab. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connection.

Final Details.

Step 12: 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 13: Install drive rivets. See **Detail I**. 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.

PM7217 - 36 in. (914 mm) ROPE ASCENSION

PART NO.	DESCRIPTION	QTY.
AAU0179	CONNECTOR - 1.315" O.D. GATE ADAPTOR	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACN0101	CHAIN - 5/0 SILVER SHIELD CHAIN - 7 LINKS	1
AEN0613	BARRIER - 41.00" x 57.44" - ROPE	1
AFR1615	HANDRAIL - 108.73" x 35.92" x 1.32"	2
AMC0652	ROPE - 36" ROPE ASCENSION - (PM)	1
APT5306	POST - ROPE CLIMBER GROUND TO DECK	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	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	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	2
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	1
BAE1572	7/16" BOLT SHACKLE	1
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	6

PM7218 - 48 in. (1219 mm) ROPE ASCENSION

PART NO.	DESCRIPTION	QTY.
AAU0179	CONNECTOR - 1.315" O.D. GATE ADAPTOR	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACN0101	CHAIN - 5/0 SILVER SHIELD CHAIN - 7 LINKS	1
AEN0613	BARRIER - 41.00" x 57.44" - ROPE	1
AFR1616	HANDRAIL - 120.71" x 47.92" x 1.32"	2
AMC0654	ROPE - 48" ROPE ASCENSION - (PM)	1
APT5306	POST - ROPE CLIMBER GROUND TO DECK	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	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	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	2
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	1
BAE1572	7/16" BOLT SHACKLE	1
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	8



PM7219 - 60 in. (1524 mm) ROPE ASCENSION

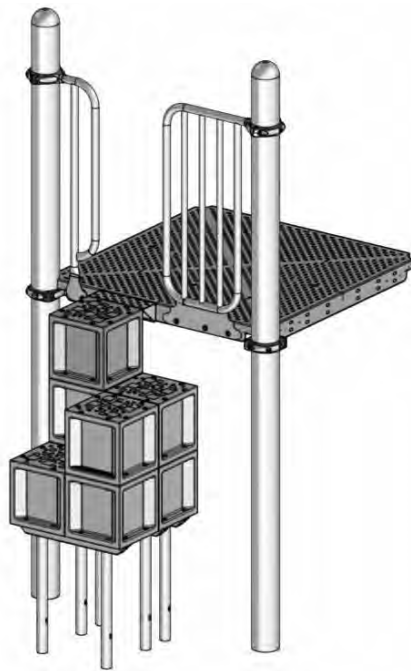
PART NO.	DESCRIPTION	QTY.
AAU0179	CONNECTOR - 1.315" O.D. GATE ADAPTOR	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACN0101	CHAIN - 5/0 SILVER SHIELD CHAIN - 7 LINKS	1
AEN0613	BARRIER - 41.00" x 57.44" - ROPE	1
AFR1617	HANDRAIL - 132.73" x 59.92" x 1.32"	2
AMC0656	ROPE - 60" ROPE ASCENSION - (PM)	1
APT5306	POST - ROPE CLIMBER GROUND TO DECK	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	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	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	2
BAE0702	BOLT - 7/16"-14 x 1.50" - BUTTON HEAD	1
BAE1572	7/16" BOLT SHACKLE	1
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	10



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Assembly View (representative model)








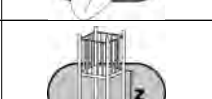
Installation Instructions

Playmakers® Models PM7087 and PM7087S
QuBits™ Block Climber 36 in. (914 mm) Decks
In-ground and Surface Mount

Installation Preparation

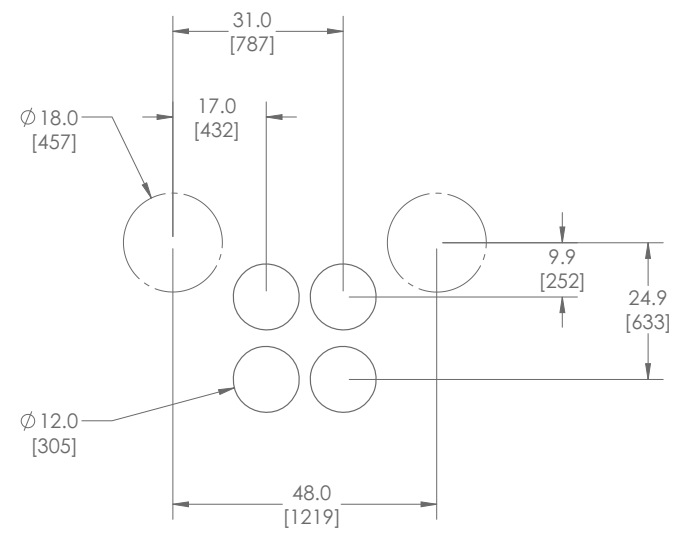
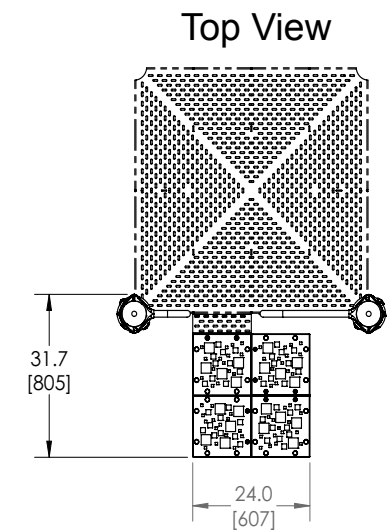
Recommended Crew: Two (2) adults
Installation Time (in-ground): 4 man-hours
Installation Time (surface mount): 2 man-hours
Concrete Required: 0.12 cubic yard (0,08 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

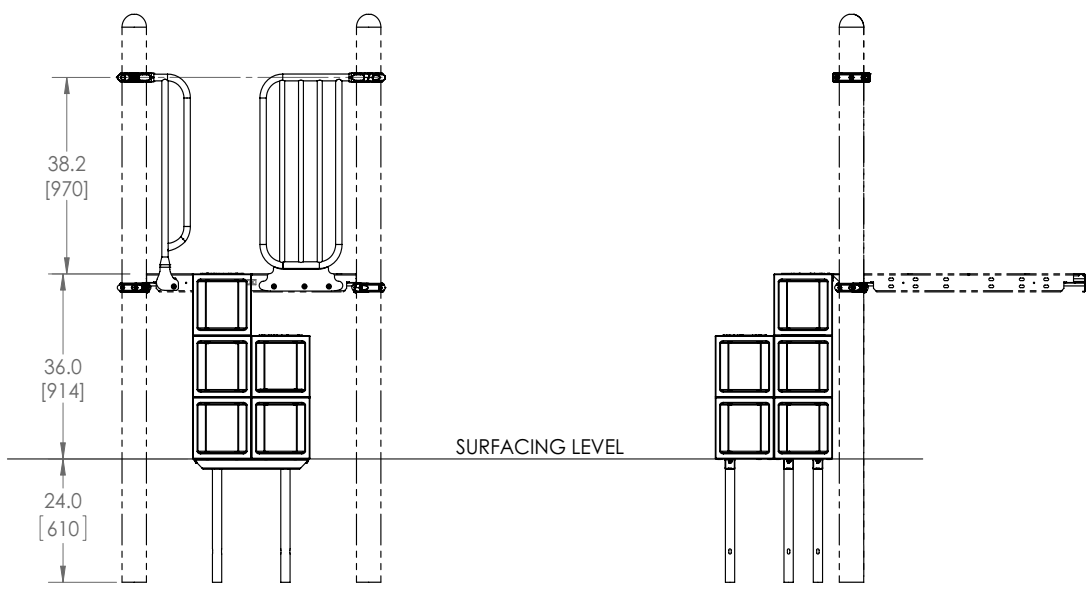
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

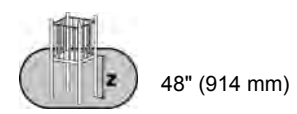
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

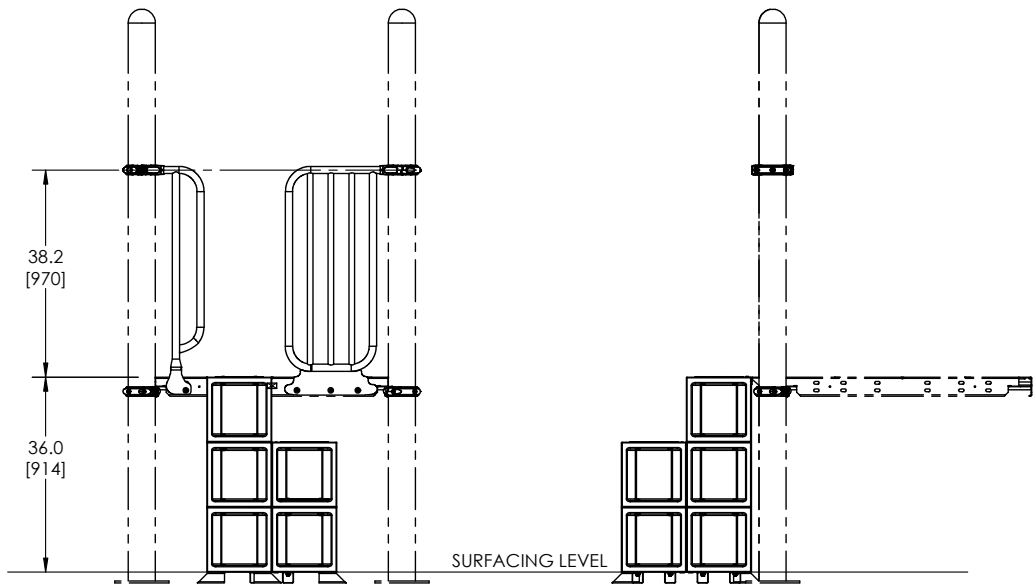
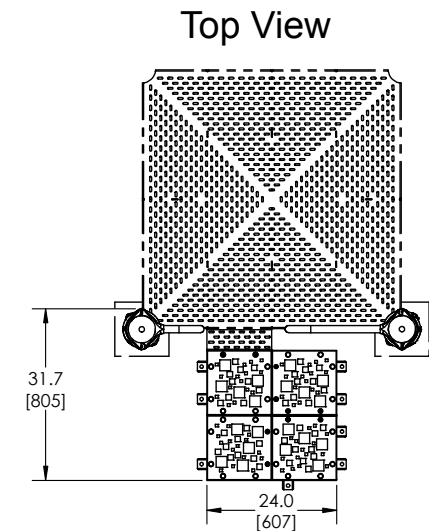


Elevation Views
PM7087

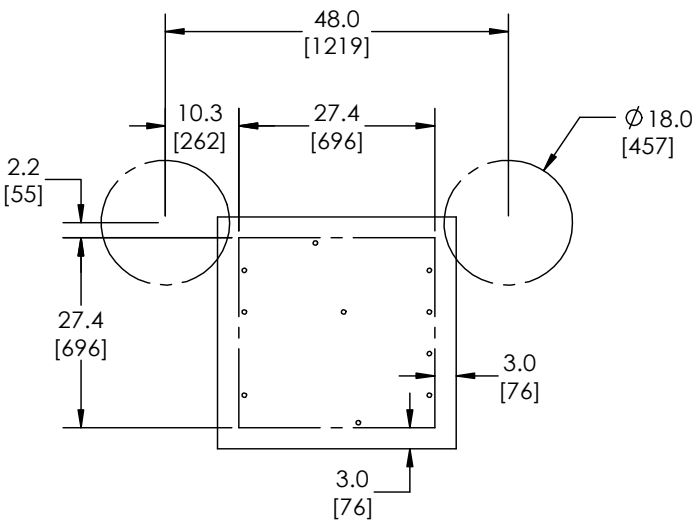


Installation Instructions

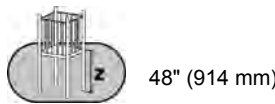
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM7087S

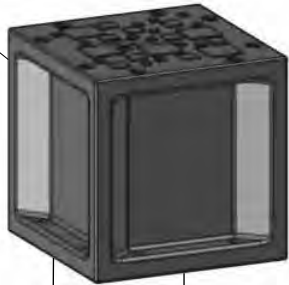


Footing Diagram

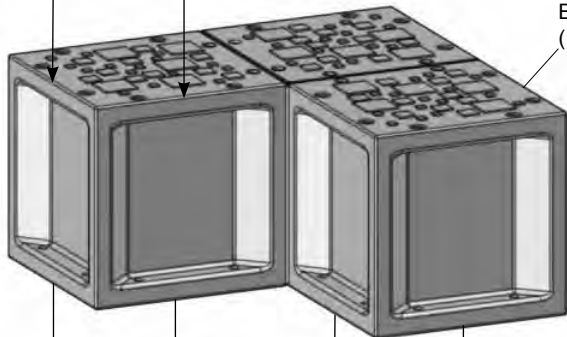


Installation Instructions

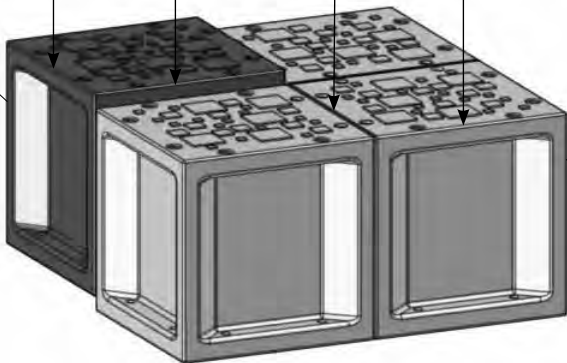
3rd Layer
Single Cube
BPL3182
(1 Total)



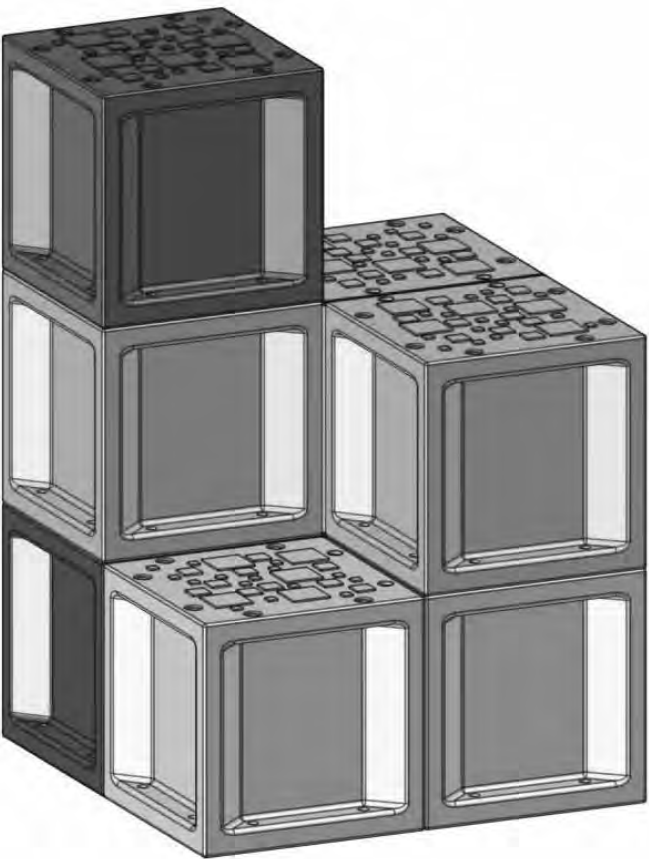
2nd Layer
Triple Cube
BPL3183
(1 Total)



1st Layer
Single Cube
BPL3182
(1 Total)



1st Layer
Triple Cube
BPL3183
(1 Total)

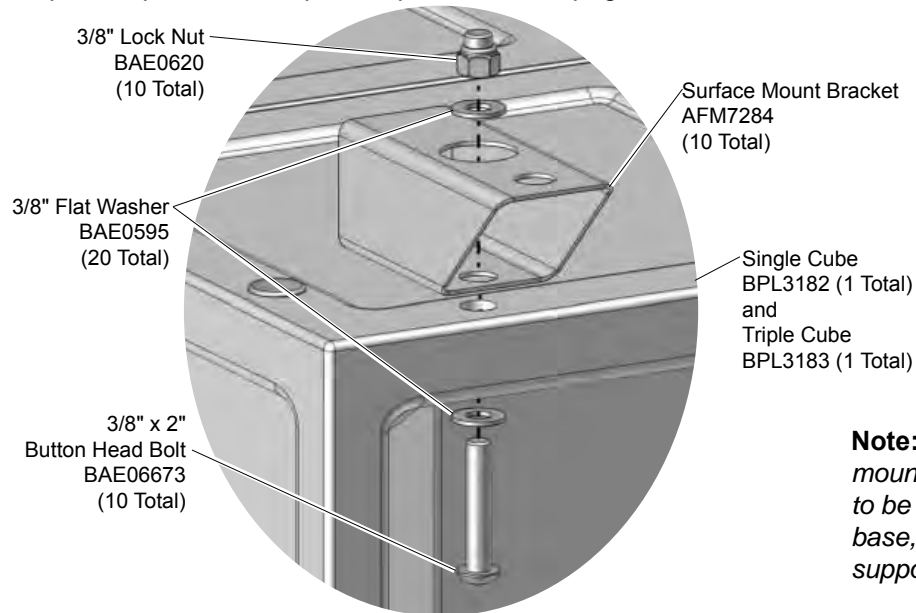


Cube Placement for PM7087 and PM7087S



Installation Instructions

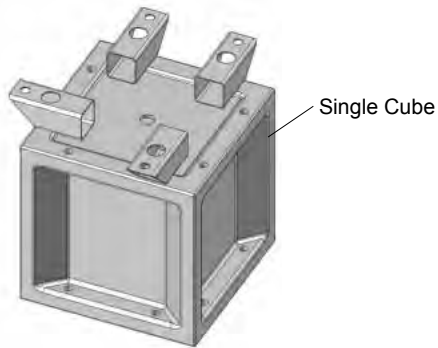
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 16.



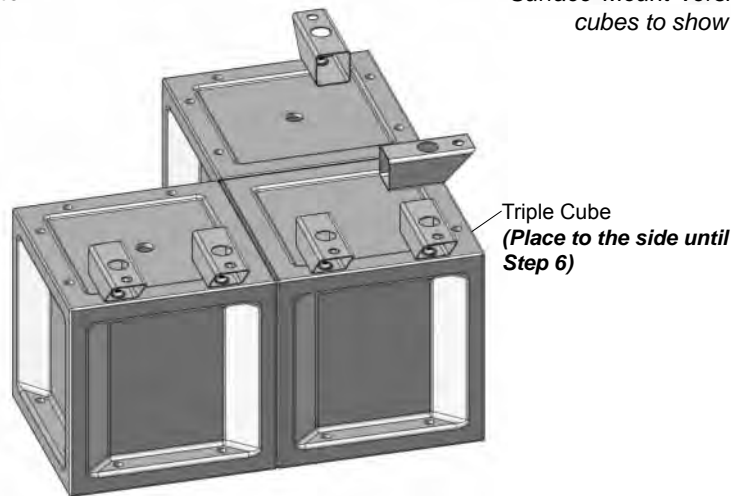
Detail A
Step 4

(Surface Mount Model Only)

Attach the surface mount brackets to the bottom of the cubes for the 1st layer.

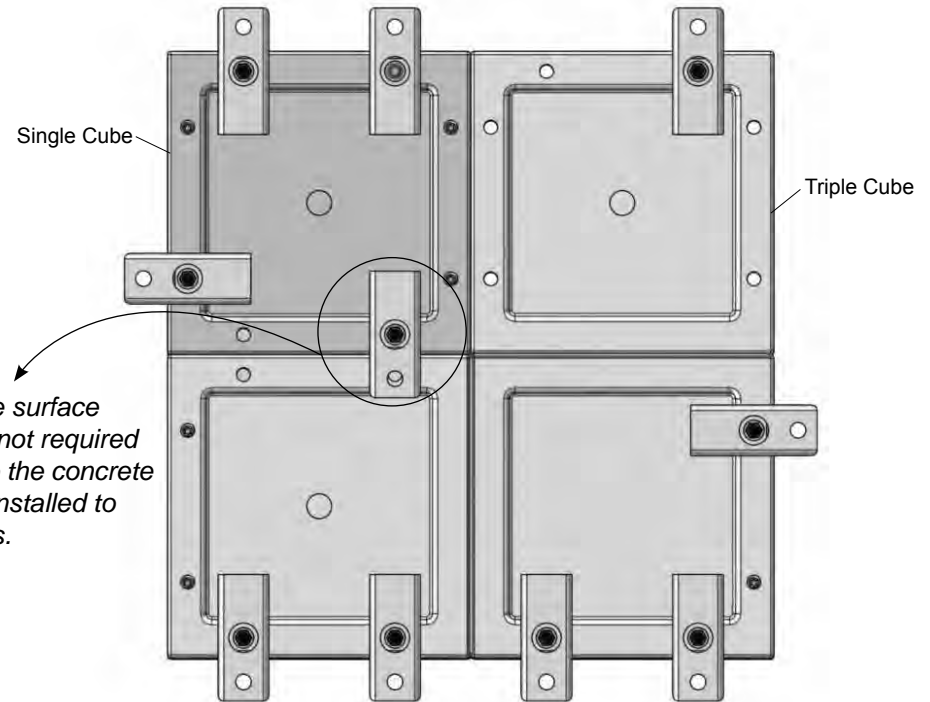


Single Cube



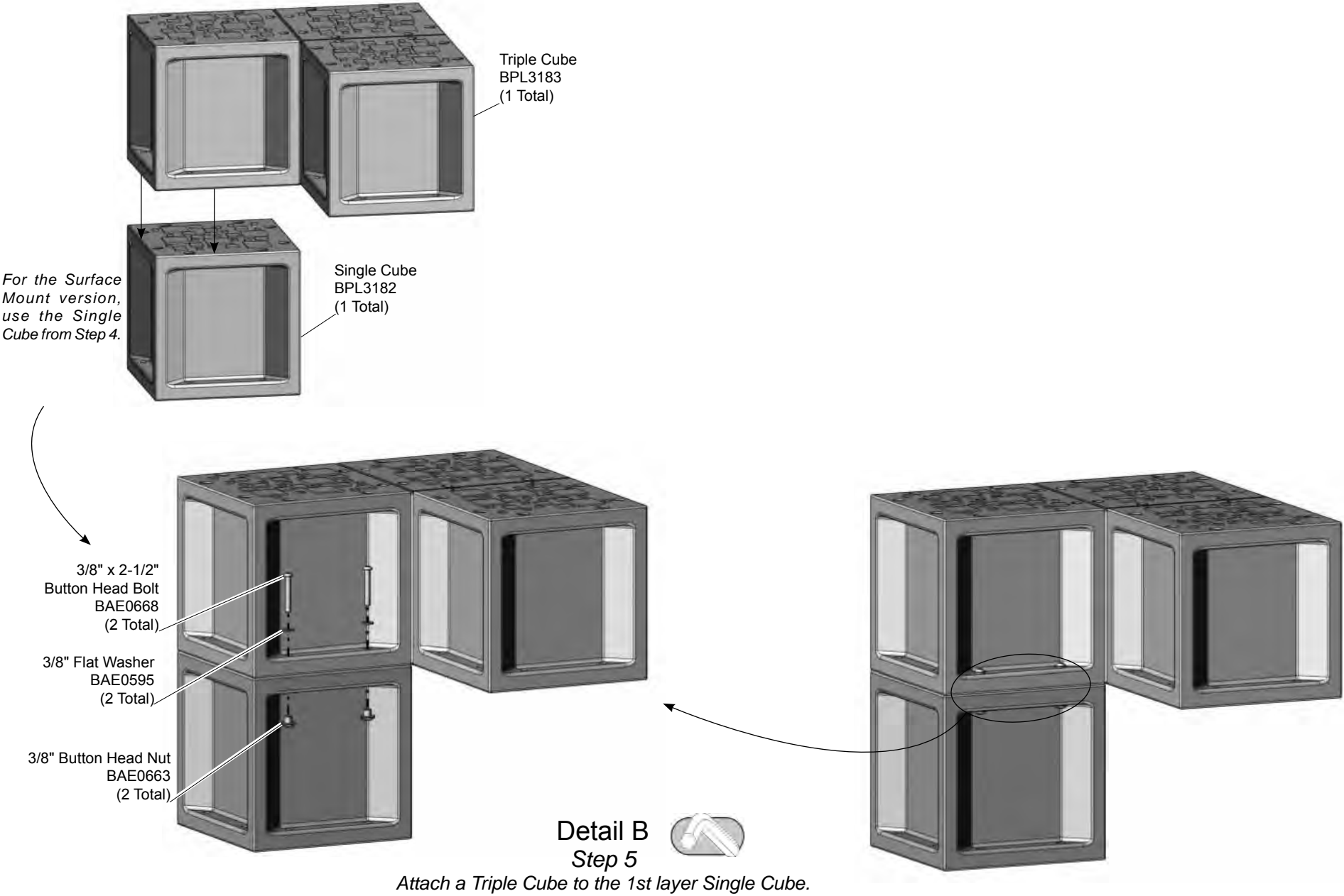
Triple Cube
(Place to the side until Step 6)

Note: This middle surface mount bracket is not required to be anchored to the concrete base, it must be installed to support the cubes.

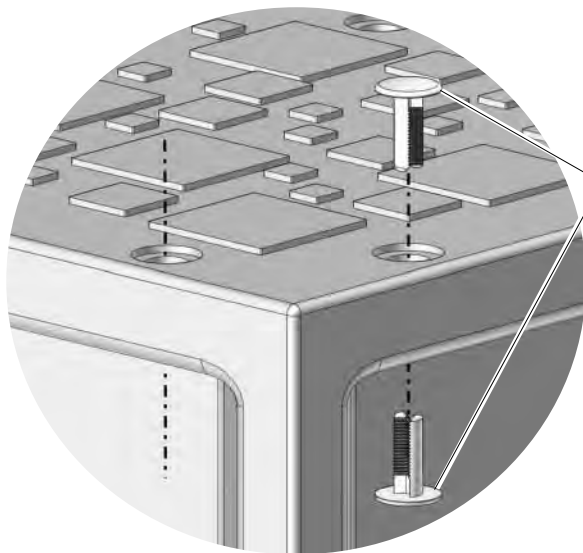


Surface Mount version shown from underneath the assembled cubes to show placement of surface mount brackets.

Installation Instructions



Installation Instructions

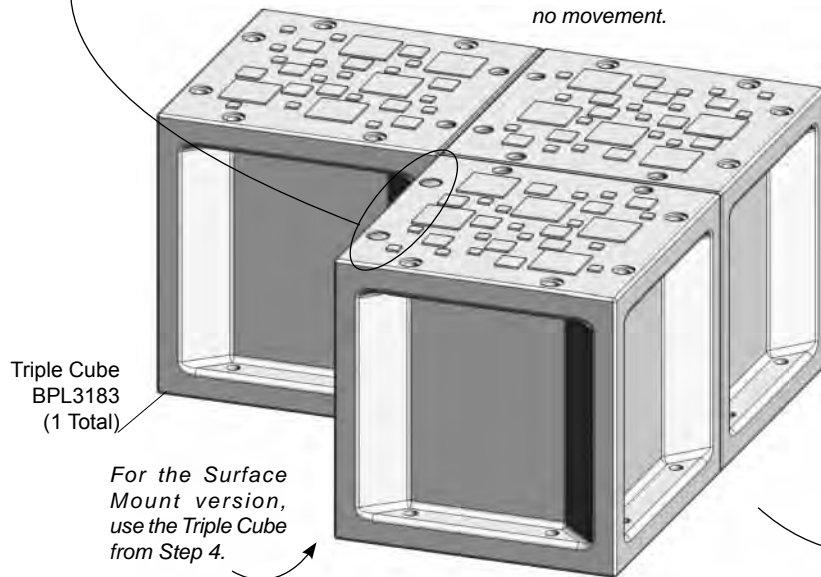


Ratchet Rivet
BPL3193
(4 Total)

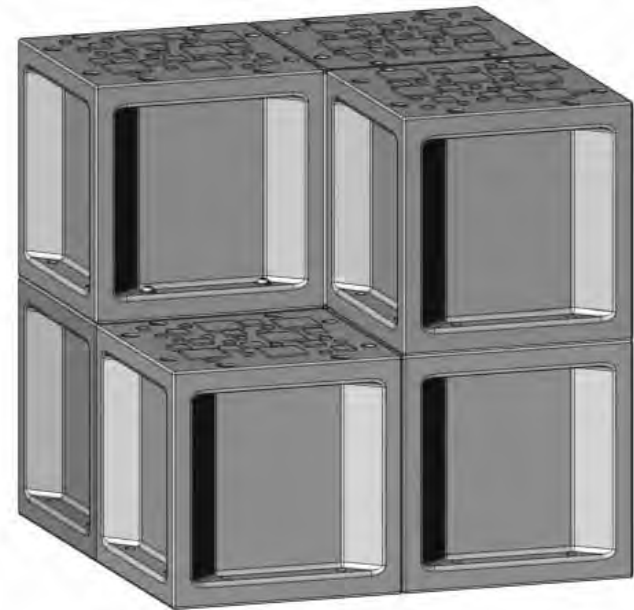
Detail C Step 6

Plug two holes on the 1st layer
Triple Cube.

Note: If there is some movement
on the ratchet rivets after pressing
together, use a soft jaw clamp on the
ratchet rivets to fully press together
until flush with the cube and there is
no movement.



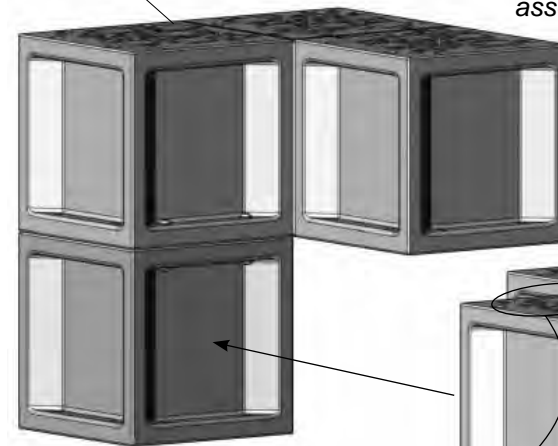
For the Surface
Mount version,
use the Triple Cube
from Step 4.



Detail D Step 7

Place the Triple Cube under the cube
assembly.

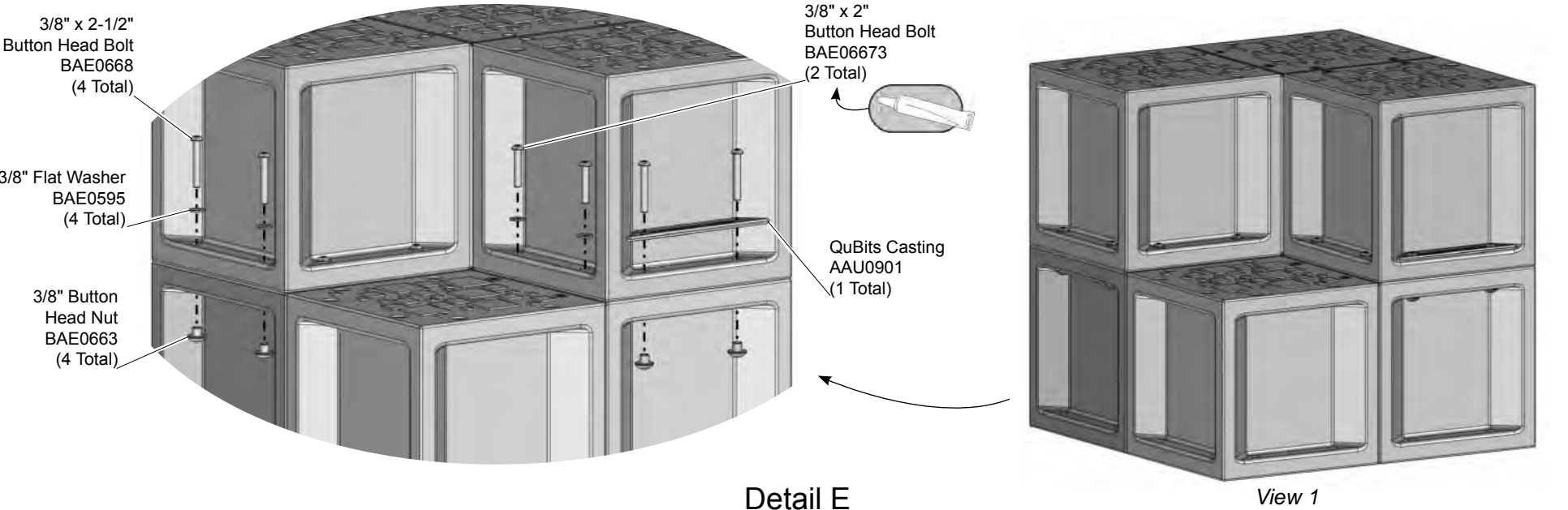
Cube Assembly
from Step 5



Triple Cube

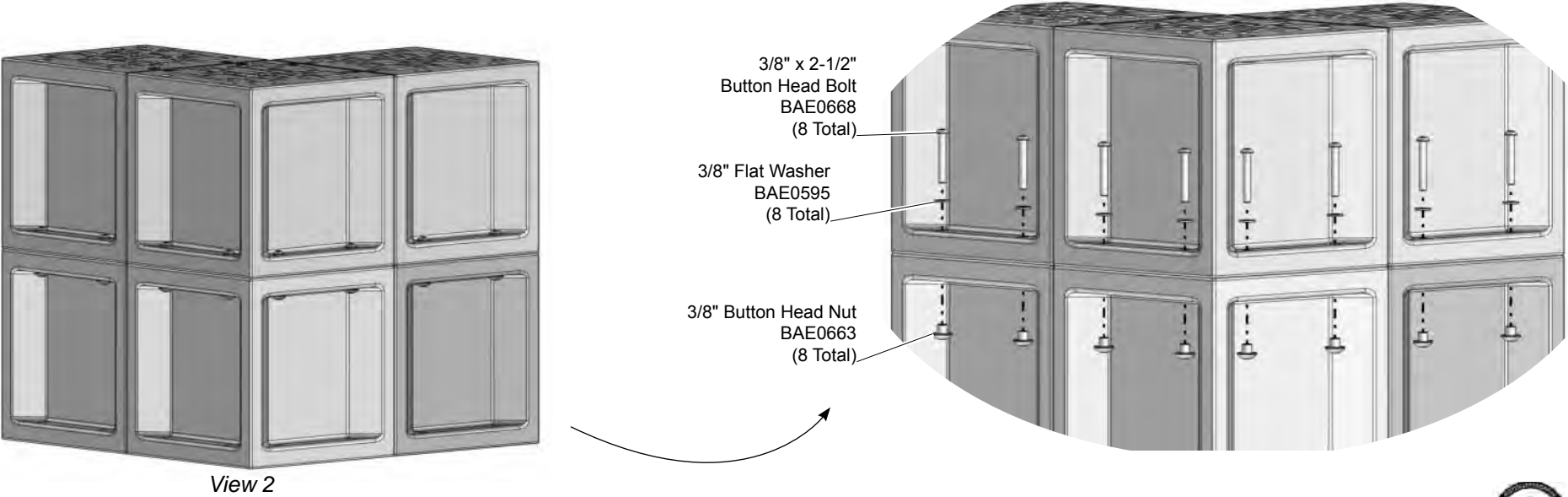
Plugged holes from Step 6

Installation Instructions

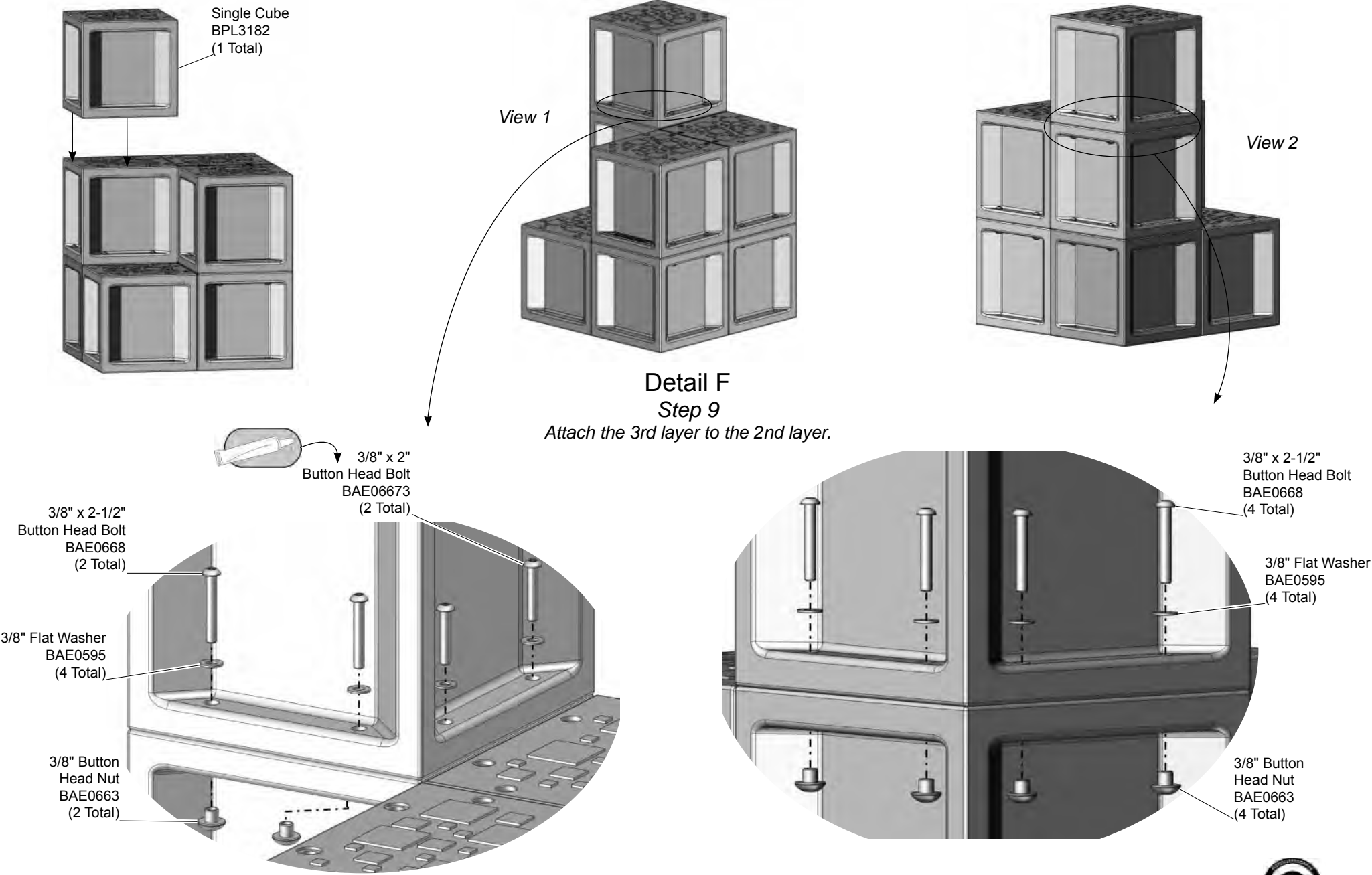


Detail E Step 8

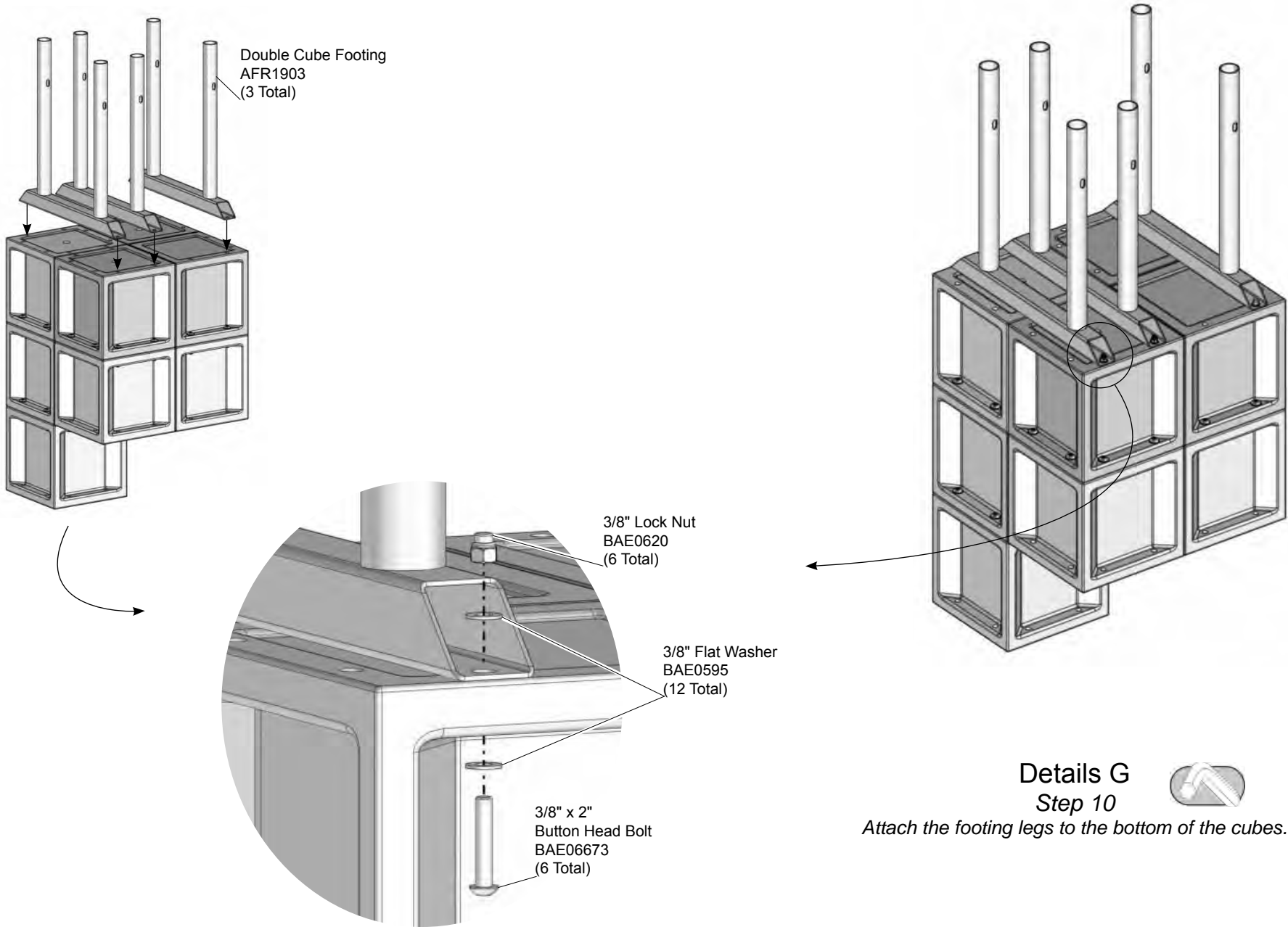
Attach the 2nd layer to the 1st layer.



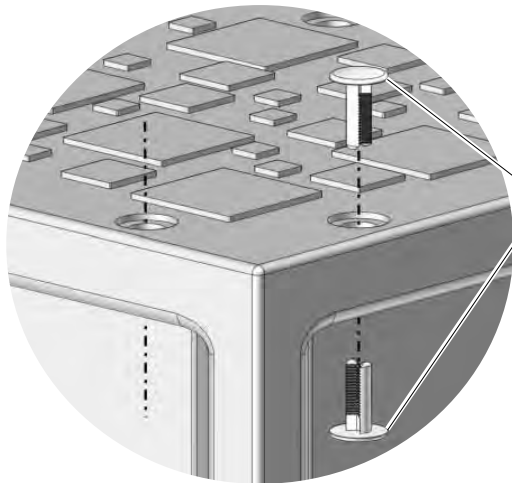
Installation Instructions



Installation Instructions



Installation Instructions

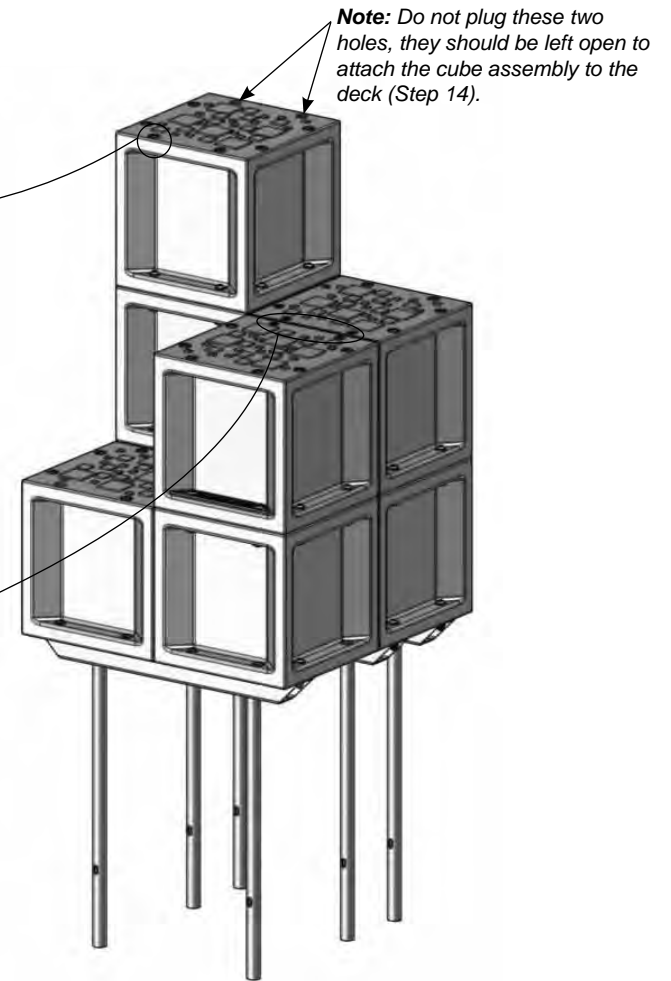


Ratchet Rivet
BPL3193
(60 Total)

Detail H
Step 11

Plug all empty holes around the outside of the cubes.

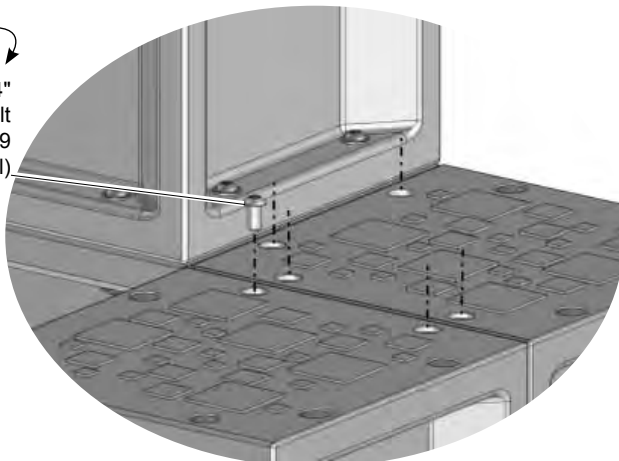
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.



Note: Do not plug these two holes, they should be left open to attach the cube assembly to the deck (Step 14).



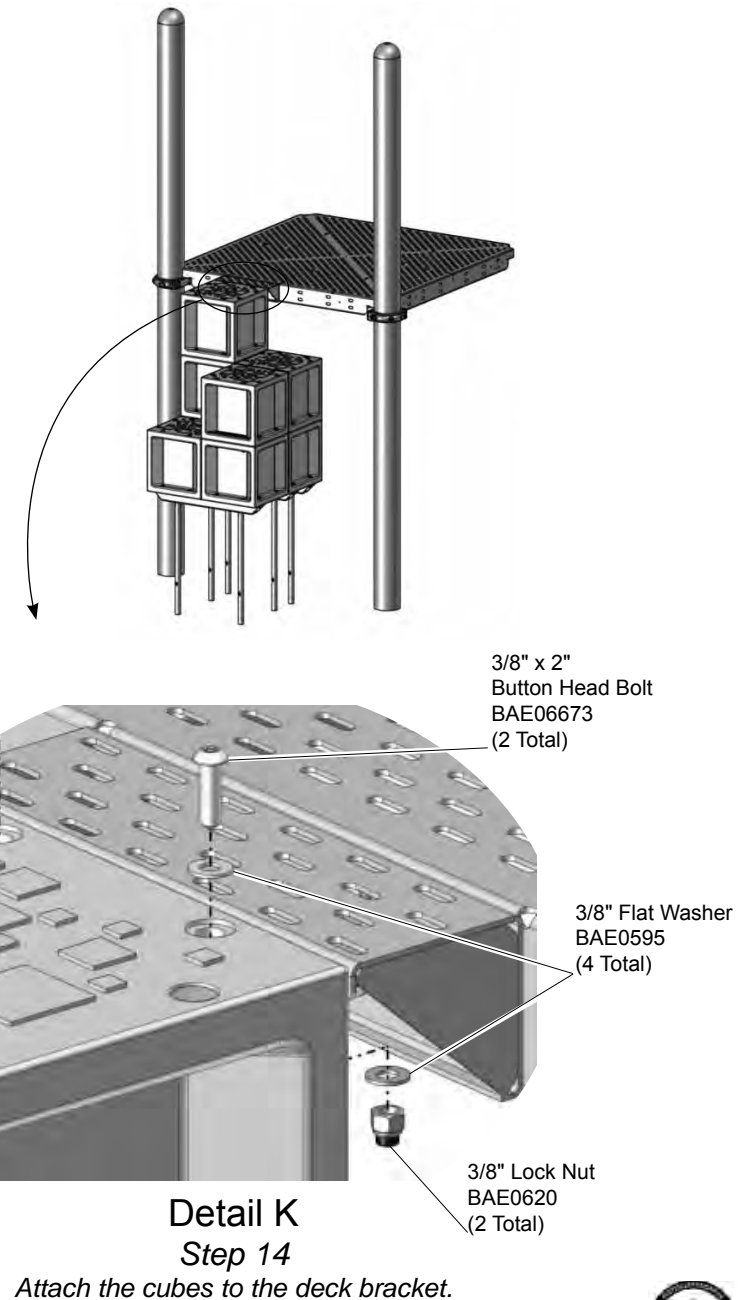
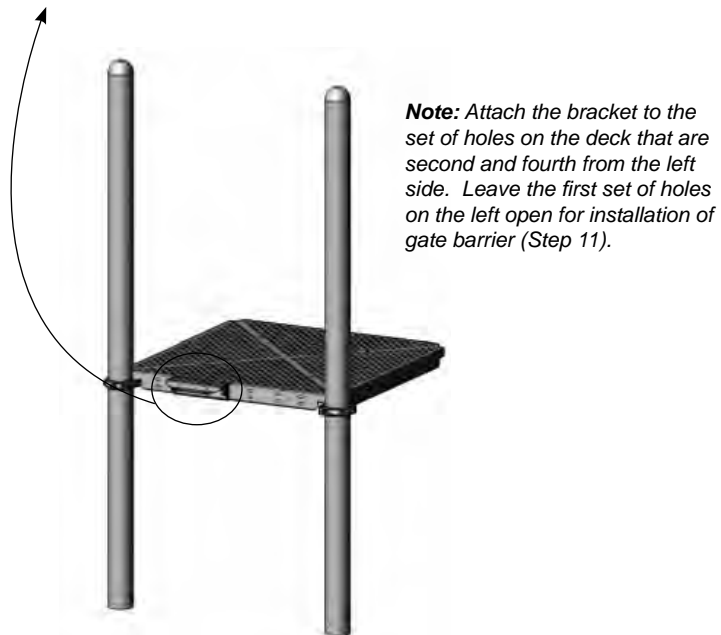
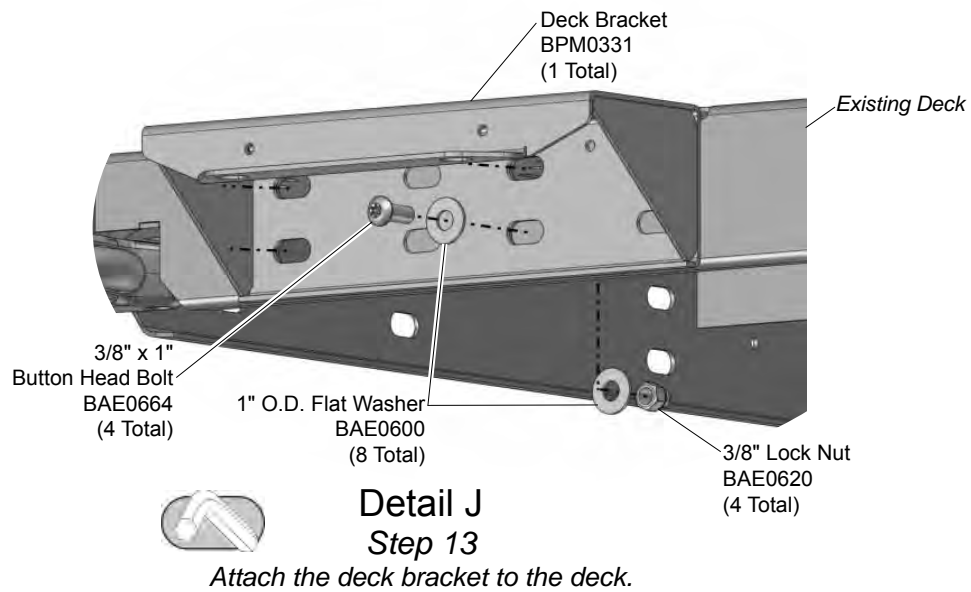
3/8" x 3/4"
Button Head Bolt
BAE0659
(8 Total)



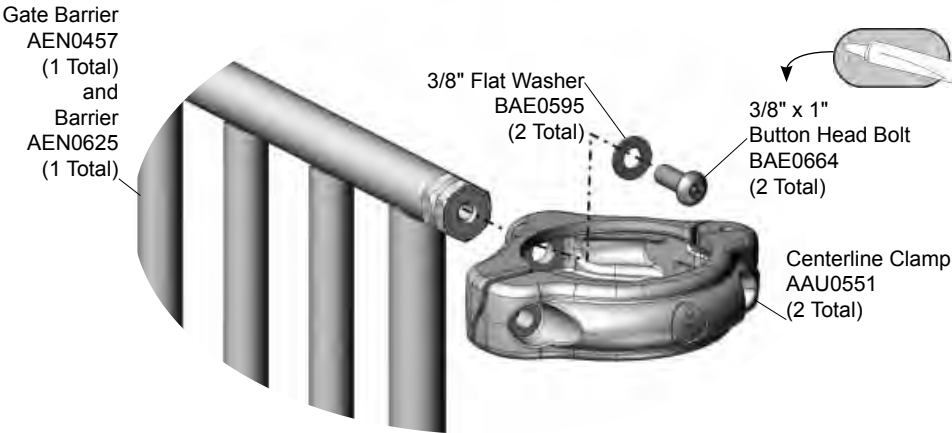
Detail I
Step 12

Fill all empty inserts on the top of the triple cubes.

Installation Instructions

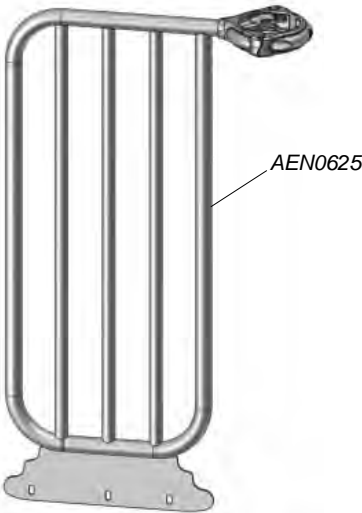


Installation Instructions

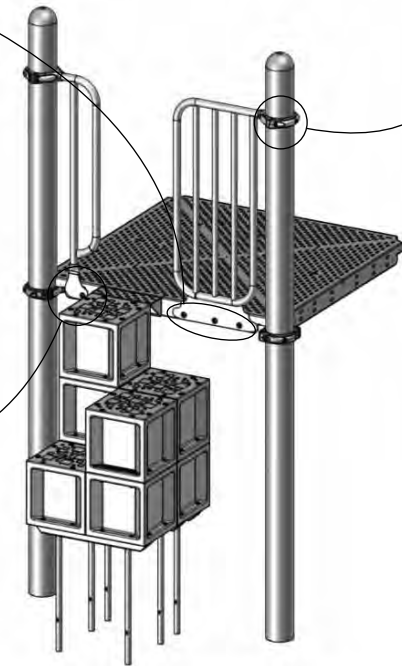
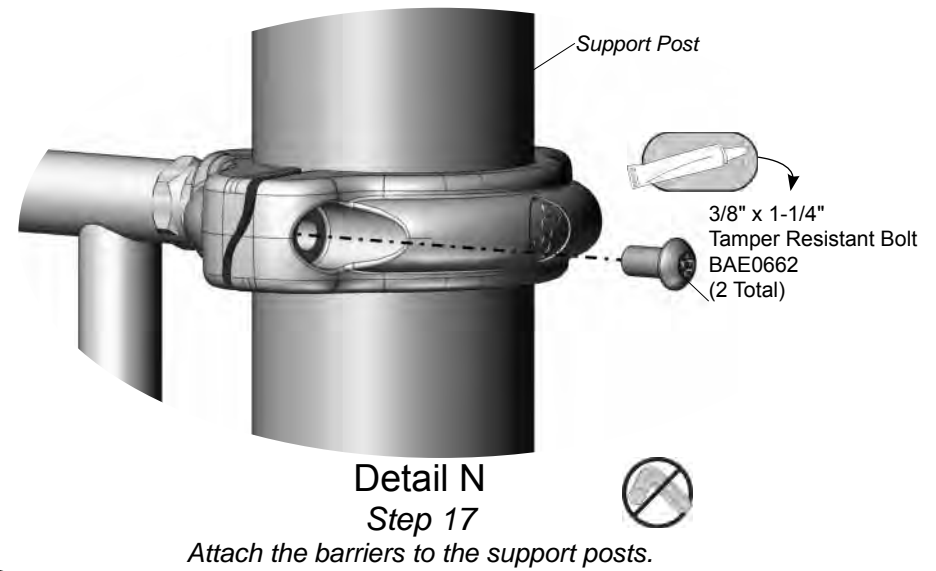
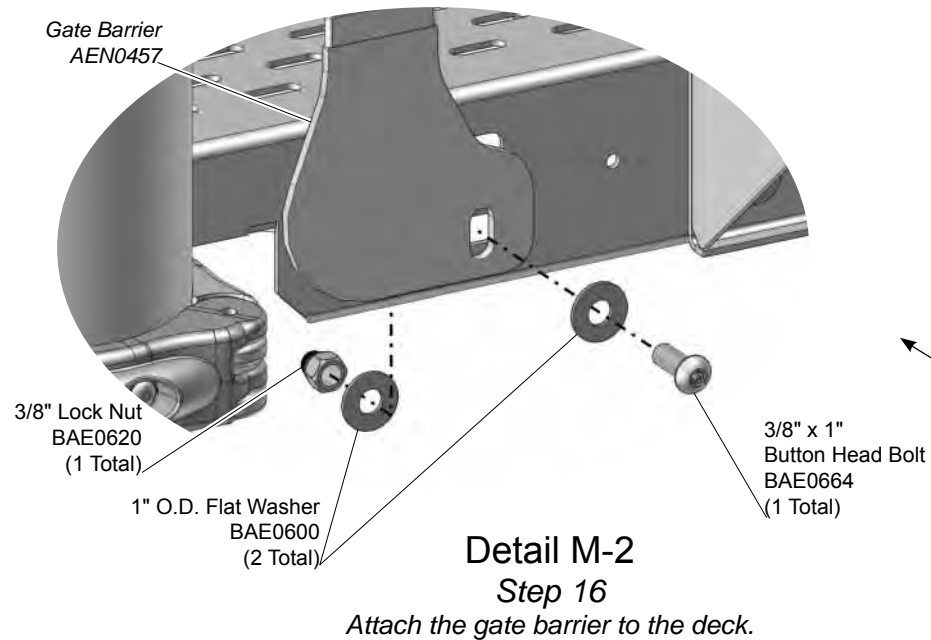
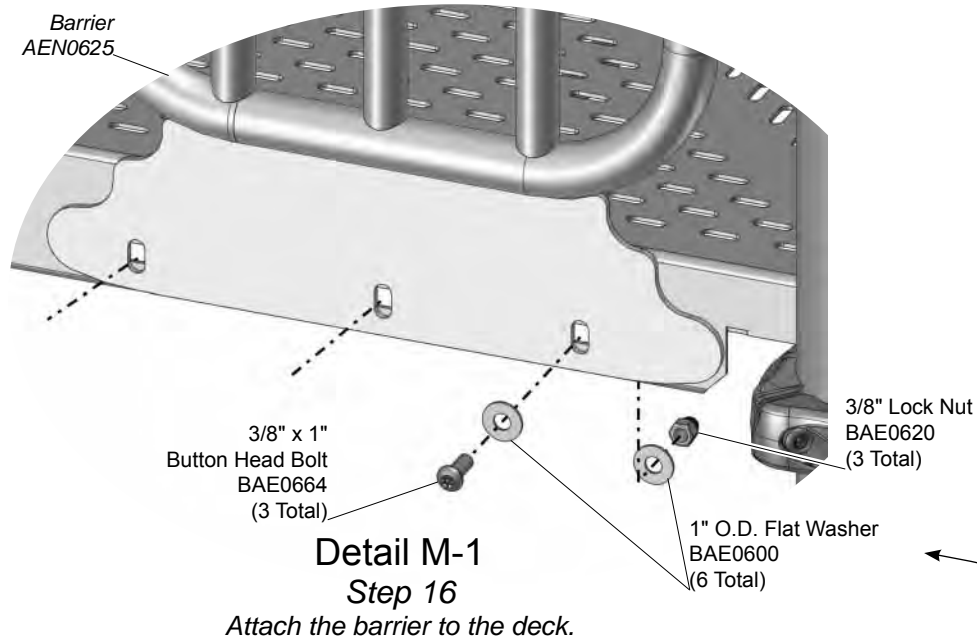


Detail L
Step 15

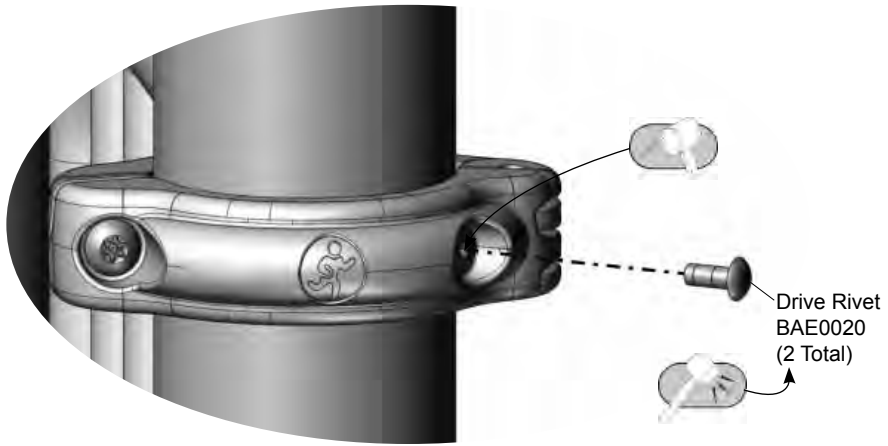
Attach the clamps to the barriers.



Installation Instructions



Installation Instructions



Detail O
Step 21

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 or prepare footings as shown in the **Component Footing and Surface Mount Detail** in the Guidelines at the beginning of this instruction booklet.

Step 4 (Surface Mount Only): Attach the surface mount bracket to the bottom of the designated cubes. See **Detail A**. Turn the cube upside down (the "treaded" side of the cube should be facing down), position the brackets on the bottom of the cube, aligning the holes (the angled edge on the bracket should be pointing to the outside), and attach as shown. See **page 5** for placement of the brackets.
Note: Place the Triple Cube to the side until needed again at Step 6.

Step 5: Attach a Triple Cube to the 1st layer Single Cube. See **Detail B**. Position a Triple Cube on top of the Single Cube, and attach as shown. Only one side of the cubes should be attached at this time.
Note: For the Surface Mount Version, use the Single Cube from Step 4.

Step 6: Plug two holes on the 1st layer Triple Cube. See **Detail C**. Plug two holes on the Single Cube as shown on page 7. Place a ratchet rivet on the top and bottom of the holes and press together until flush with the cubes.
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Step 7: Place the Triple Cube under the cube assembly. See **Detail D**. Place the Triple cube under the cube assembly from Step 5.

Step 8: Attach the 2nd layer to the 1st layer. See **Detail E**. Place the Triple Cube on top of the 1st layer. Select the appropriate hardware, and attach as shown.

Step 9: Attach the 3rd layer to the 2nd layer. See **Detail F**. Place the Single Cube on top of the 2nd layer. Select the appropriate hardware, and attach as shown.

Step 10 (In-ground Only): Attach the footing legs to the bottom of the cubes. See **Detail G**. Turn the cube upside down (the "treaded" side of the cube should be facing down), position the brackets on the bottom of the cube, aligning the holes. Attach as shown. See **page 10** for placement of the footing legs.

Step 11: Plug all empty holes around the outside of the cubes. See **Detail H**. Plug all empty holes on the outside of the cubes with the ratchet rivets. Place a ratchet rivet on the top and bottom of the holes and press together until flush with the cubes. If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Note: There are two holes on the top of the single cube (4th layer) that should not be filled at this time, they should remain open until Step 14 when attaching the cubes to the deck bracket. See **page 11** for detail.

Step 12: Fill all empty inserts on the top of the Triple Cubes. See **Detail I**. If there are any empty inserts on the tops of the Triple Cubes, fill these holes with the bolts as shown.

Step 13: Attach the deck bracket to the deck. See **Detail J**. Align the holes of the bracket with the top and bottom holes on the existing deck.
Note: Attach the bracket to the set of holes on the deck that are second and fourth from the left side. Leave the first set of holes on the left open for installation of gate barrier.

Step 14: Attach the cube assembly to the deck bracket. See **Detail K**. Place the cube assembly in or on the footings. Position the Single Cube on the lip of the deck bracket so the top of the cube is flush with the deck bracket. Align the holes, and attach as shown.

Step 15: Attach the clamps to the barriers. See **Detail L**. Align the hole in the clamp with the hole on the end of each barrier, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.



Installation Instructions

Step 16: Attach the barriers to the deck. See **Details M-1** and **M-2**. Position the barriers against the deck, align the holes on the barriers with the bottom holes on the deck, and attach as shown.

Step 17: Attach the barriers to the support posts. See **Detail N**. Close the clamps around the support posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 18: 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 19 (In-ground Only): Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 20 (Surface Mount Only): 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 21: Install drive rivets. See **Detail O**. 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

PM7087 - 48" QUBITS BLOCK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0901	QUBITS BRANDING CASTING	1
AEN0457	BARRIER - 42.07" x 7.75" GATE	1
AEN0625	BARRIER - 18.50" x 42.20"	1
AFR1903	FOOTING - DOUBLE CUBE	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	40
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	20
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - S.S.	10
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	20
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	12
BPL3182	SINGLE CUBE	2
BPL3183	TRIPLE CUBE	2
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	72
BPM0331	FRAME - 12.00" x 5.33" x 3.50"	1

PM7087S - 48" QUBITS BLOCK CLIMBER SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0901	QUBITS BRANDING CASTING	1
AEN0457	BARRIER - 42.07" x 7.75" GATE	1
AEN0625	BARRIER - 17.75" x 42.20"	1
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	10
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	48
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	20
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - S.S.	10
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	1
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	20
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	15
BPL3182	SINGLE CUBE	2
BPL3183	TRIPLE CUBE	2
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	72
BPM0331	FRAME - 12.00" x 5.33" x 3.50"	1



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Assembly View

Installation Instructions




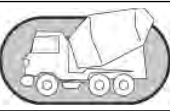


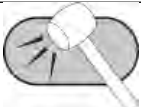
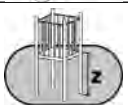
Playmakers® Model PM7439

Rock Climber To Deck

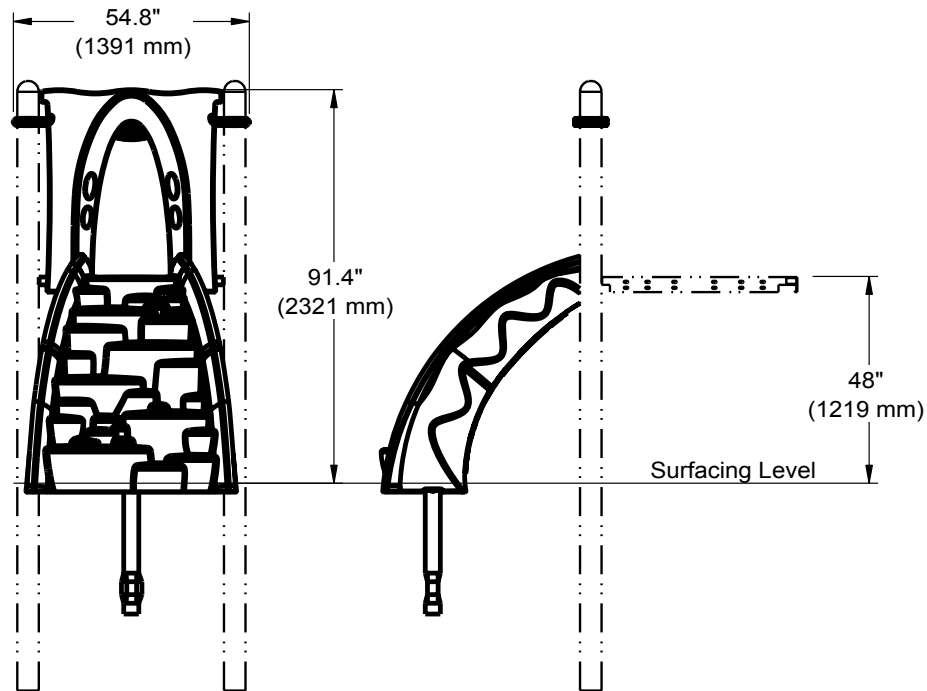
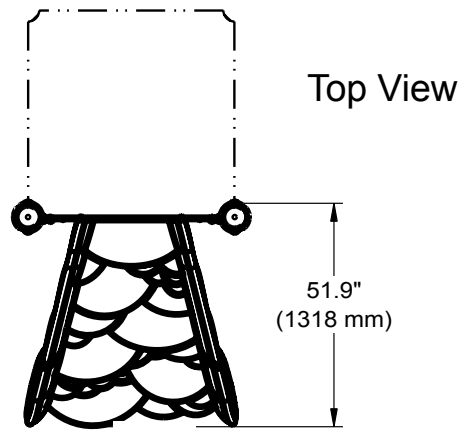
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 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

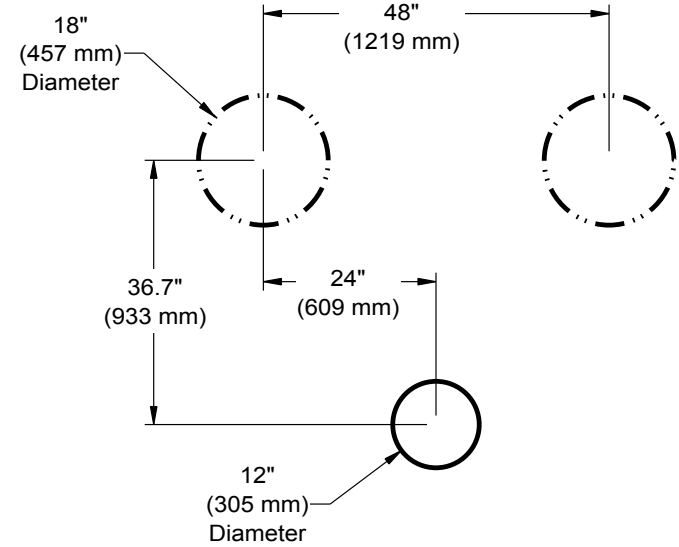
ICON KEY

	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

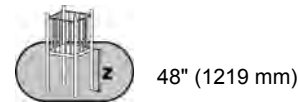
Installation Instructions



Elevation Views



Footing Diagram

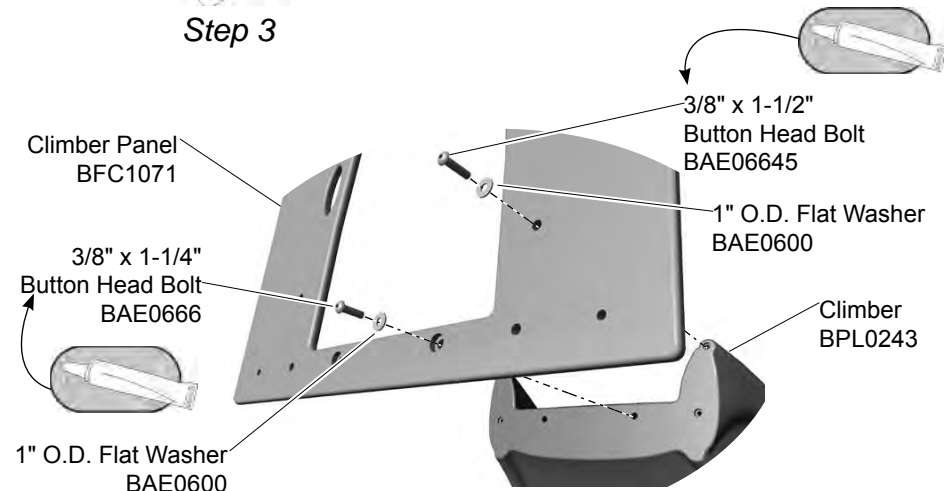


Installation Instructions

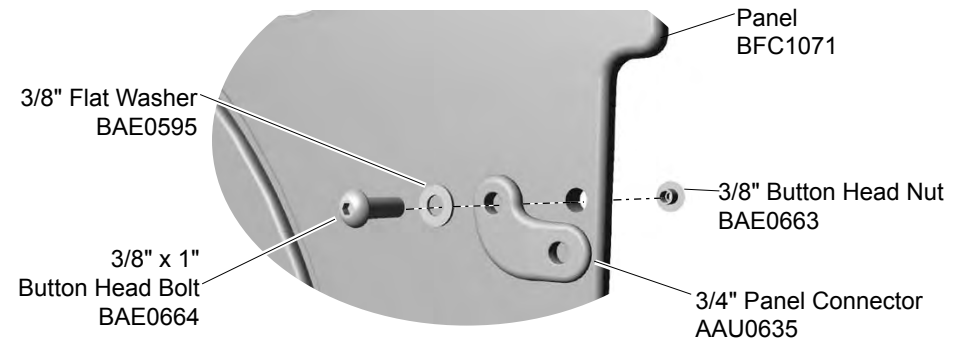
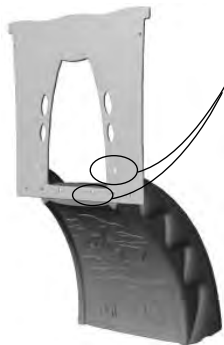
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



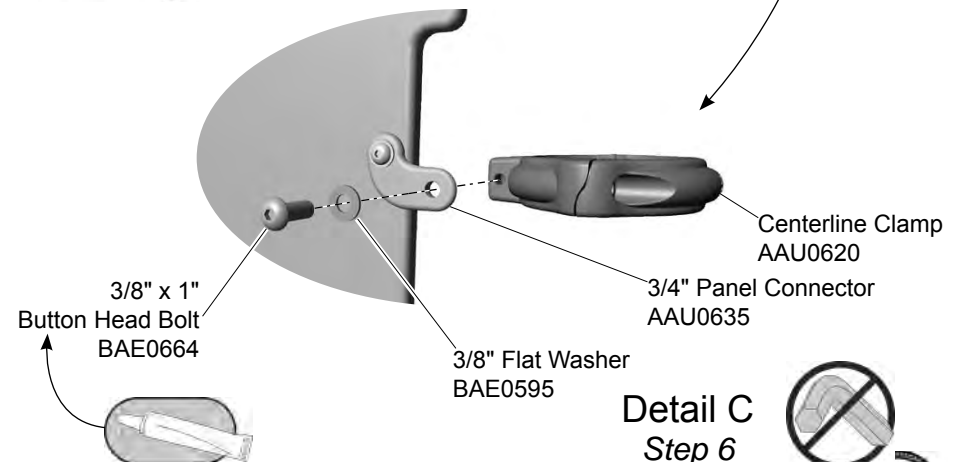
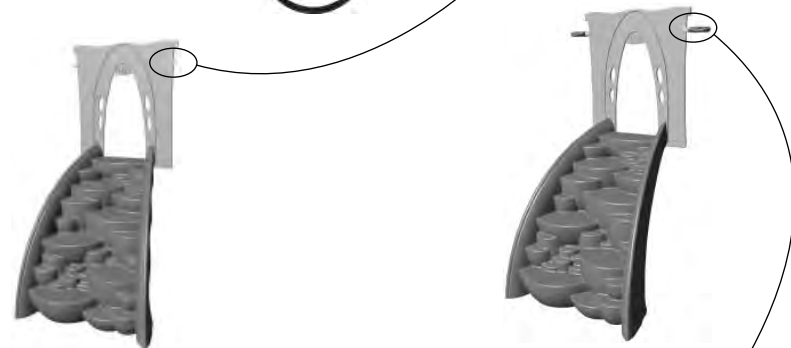
Step 3



Detail A
Step 4



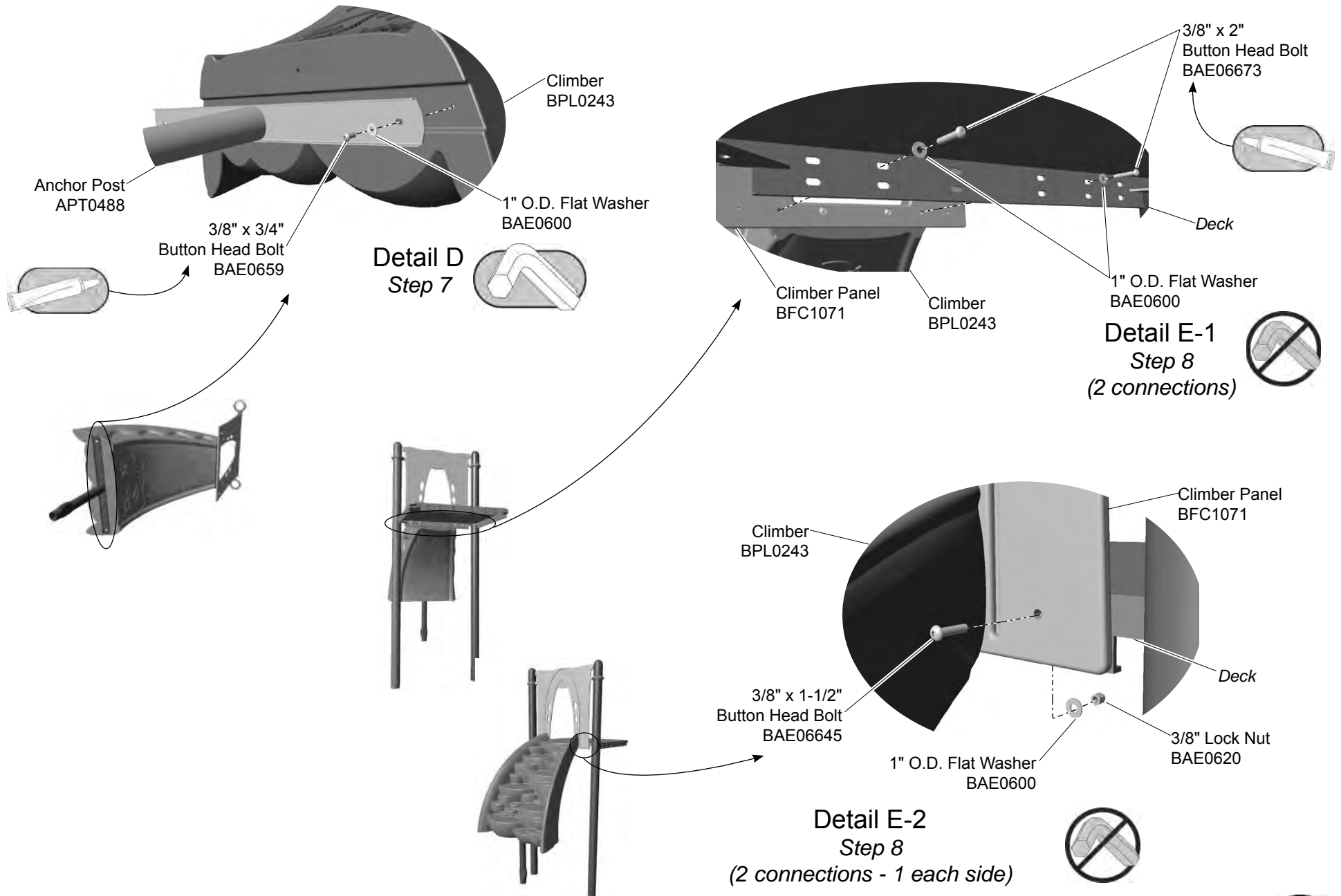
Detail B
Step 5



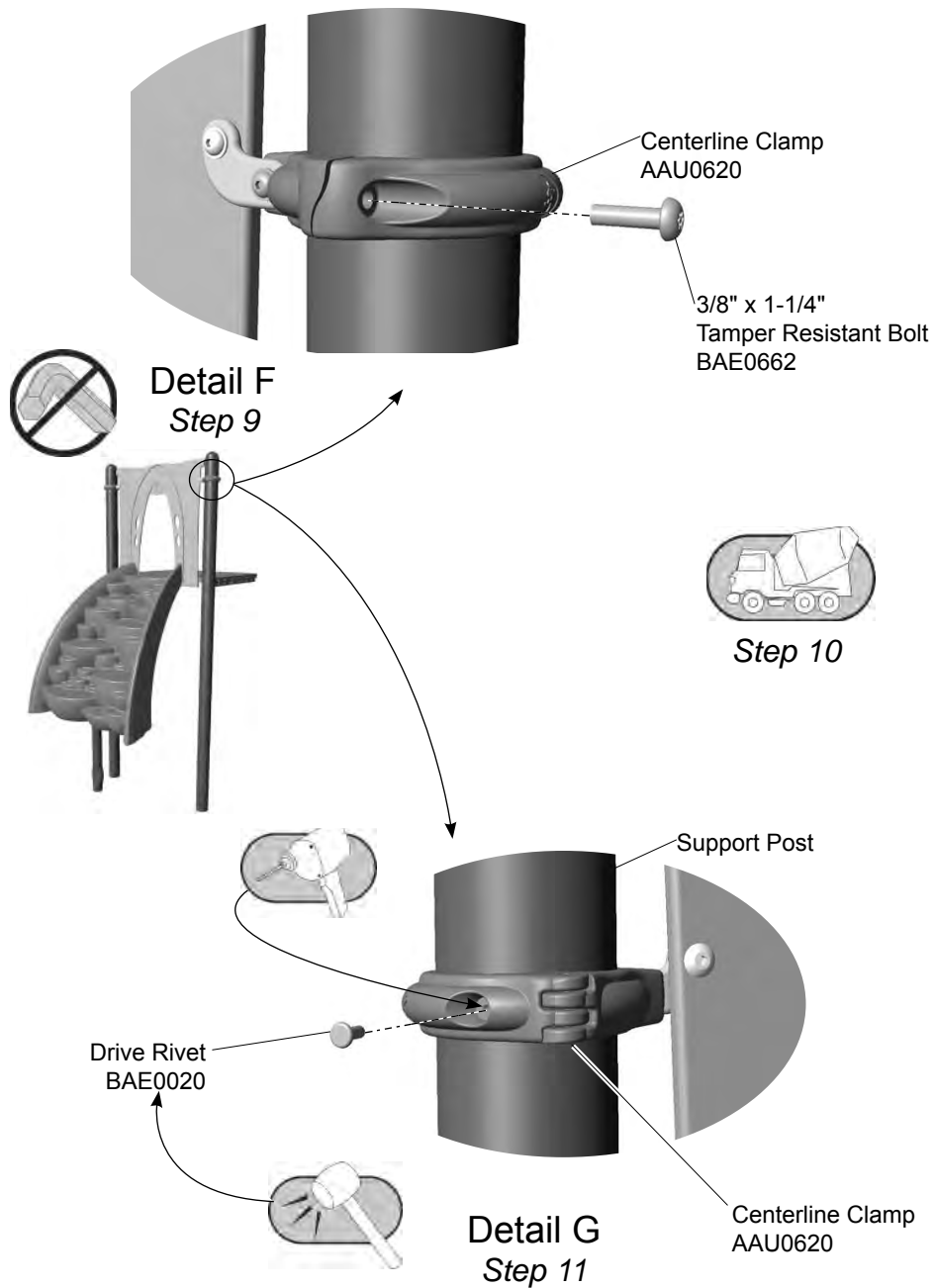
Detail C
Step 6



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 centerline 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" TMRP 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
ZZPM8100	36" (915 mm)
ZZPM8110	48" (1220 mm)
ZZPM8120	60" (1525 mm)
ZZPM8130	72" (1830 mm)

Installation Instructions

Playmakers® Models PM8100-PM8130




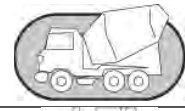


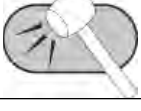
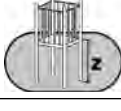
Beanstalk Climber

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

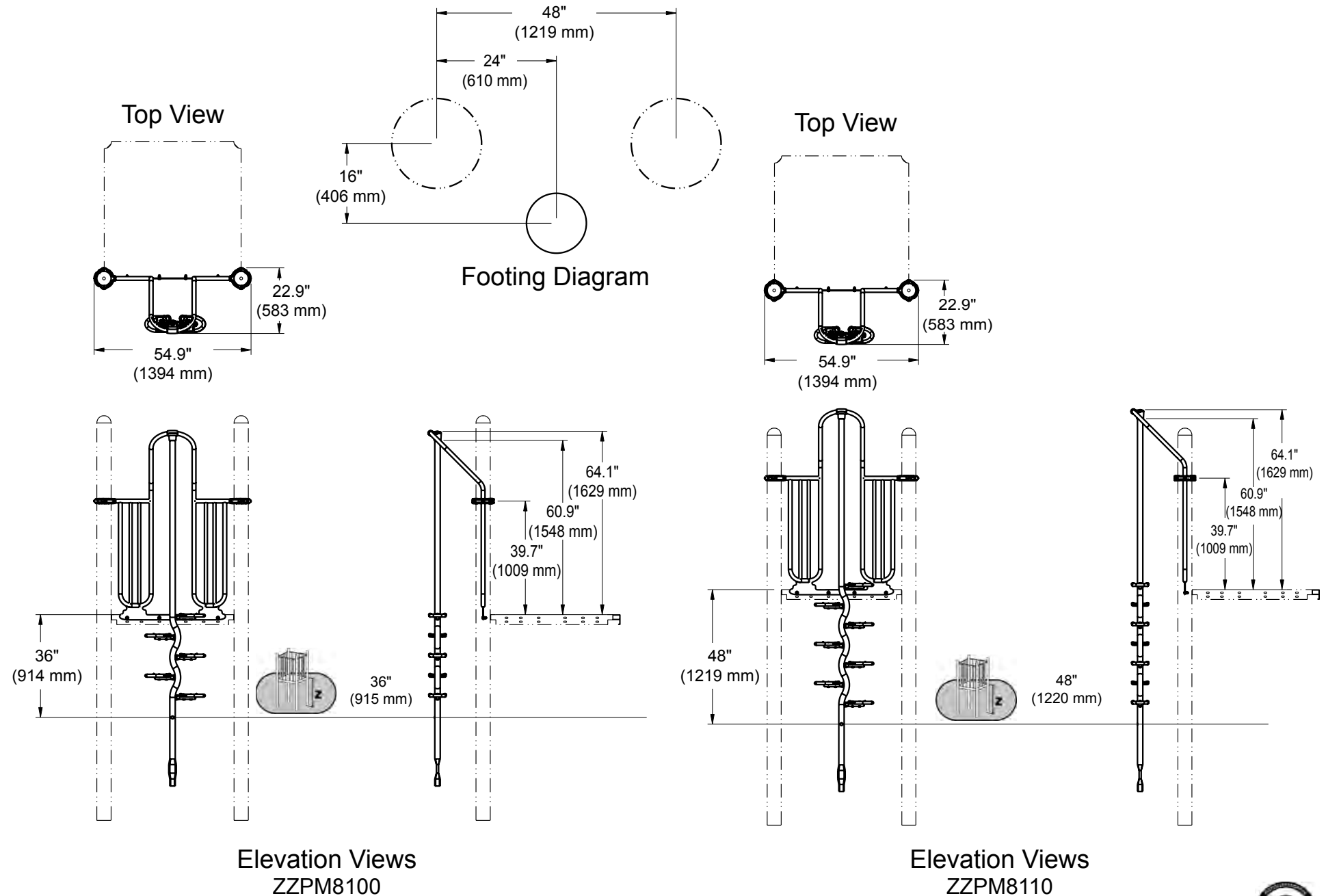
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 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

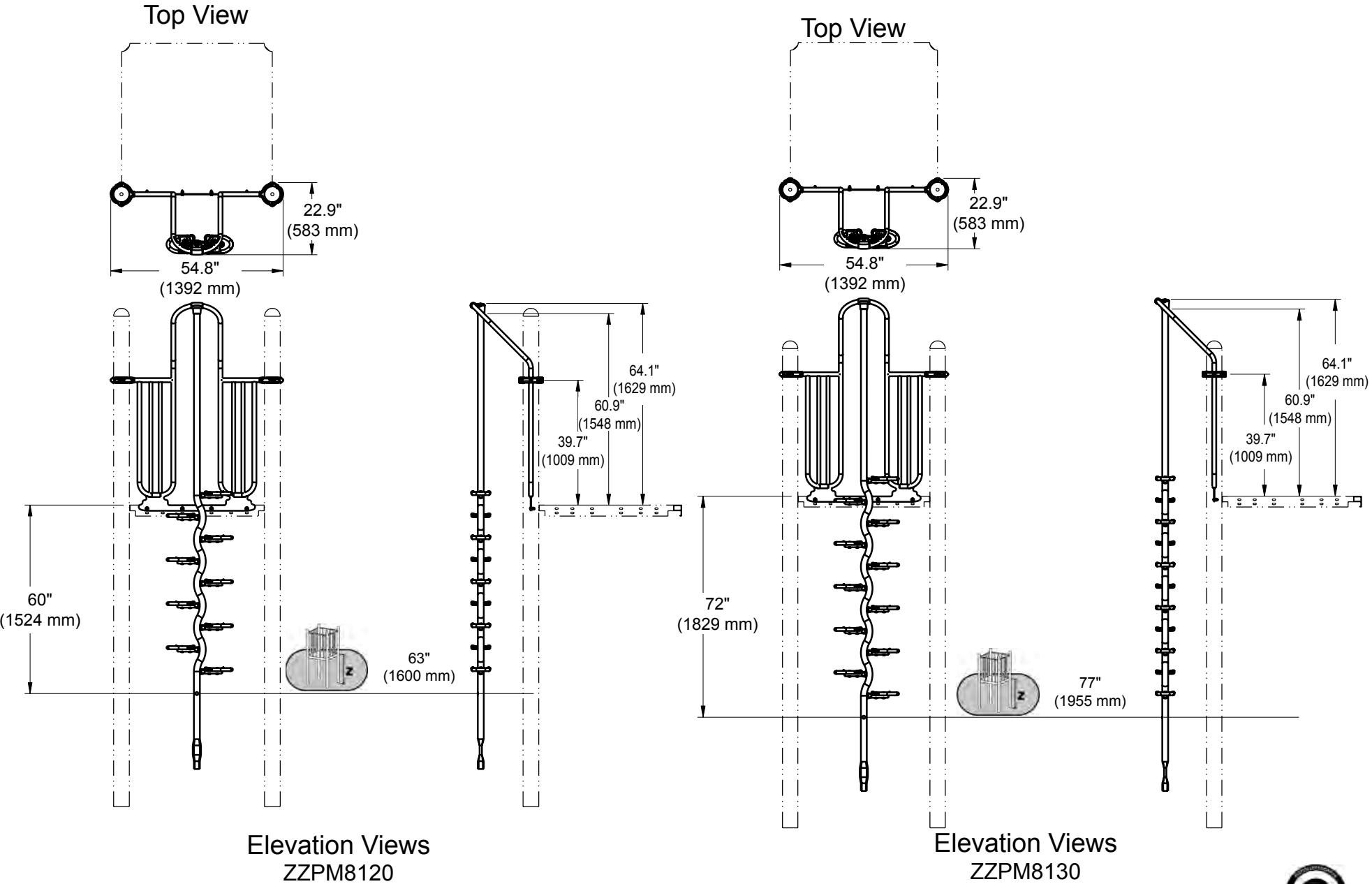
ICON KEY

	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

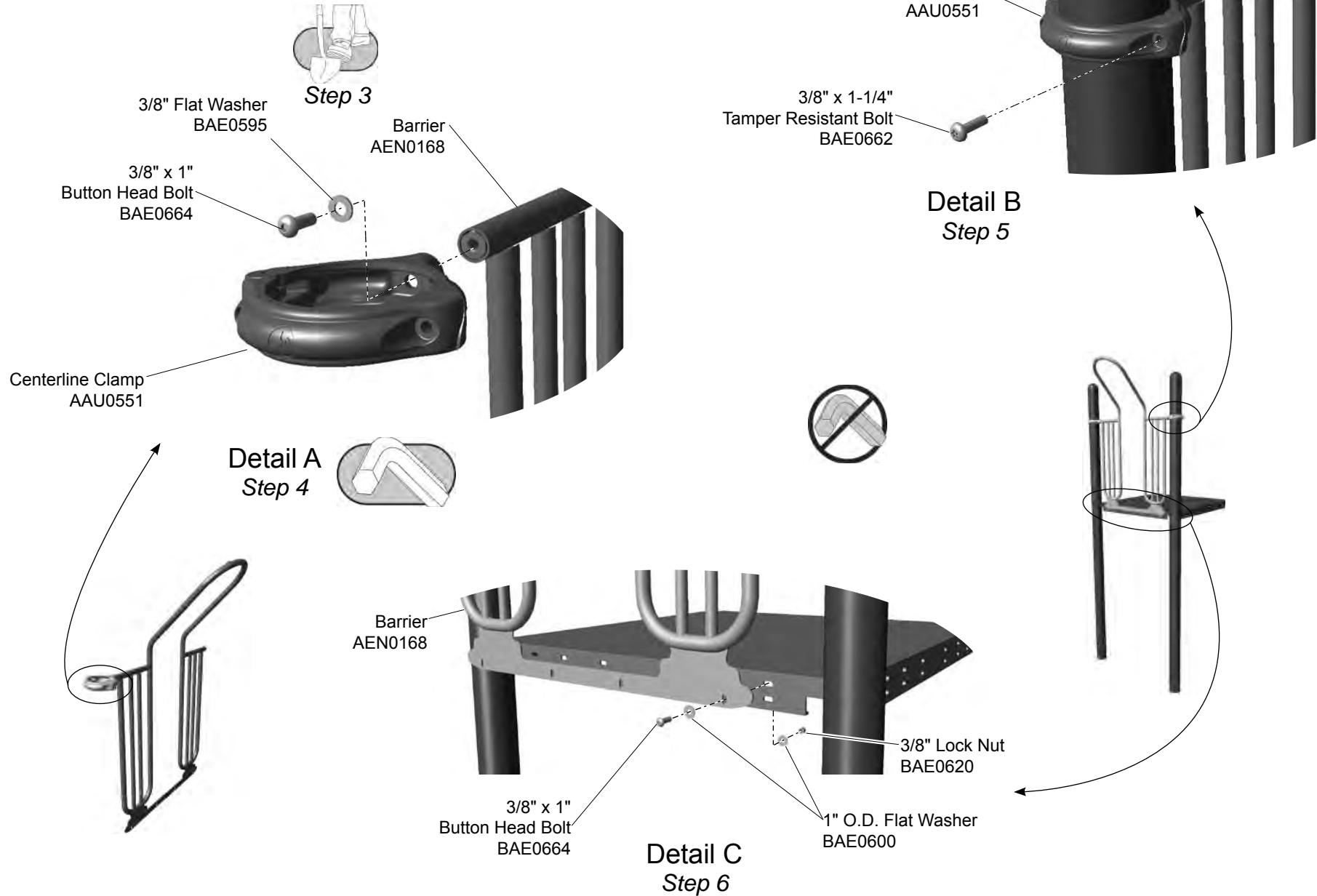


Installation Instructions

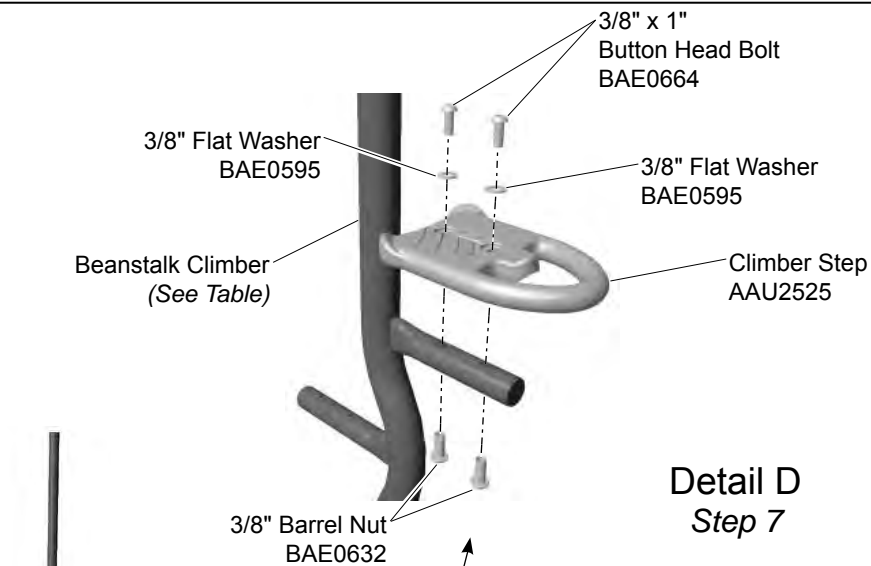


Installation Instructions

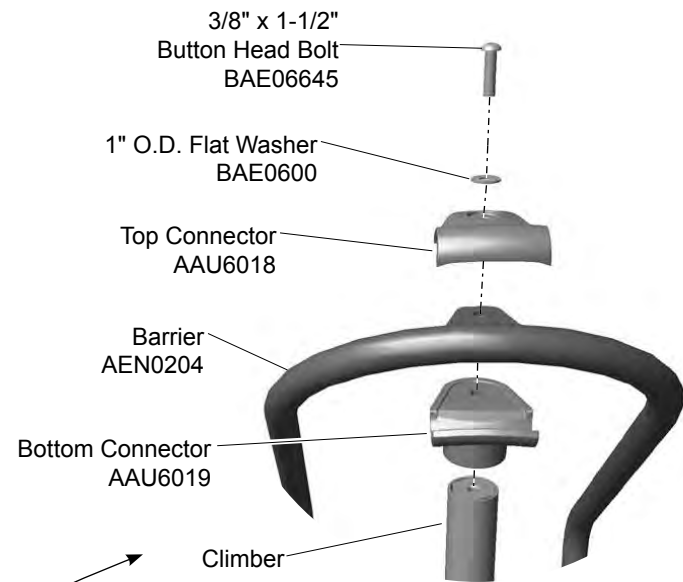
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



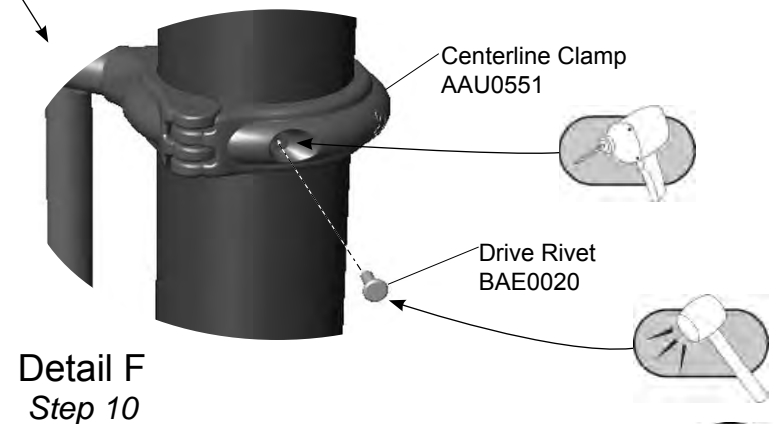
Detail D
Step 7



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 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 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)

Model	Deck Height	Weight
ZZPM0296	12" (305 mm) to 24" (610 mm)	66.01 lbs. (30 kg)
ZZPM0297	36" (915 mm) to 48" (1219 mm)	74.81 lbs. (34 kg)

Installation Instructions

Playmakers® Model PM0296 and PM0297
 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

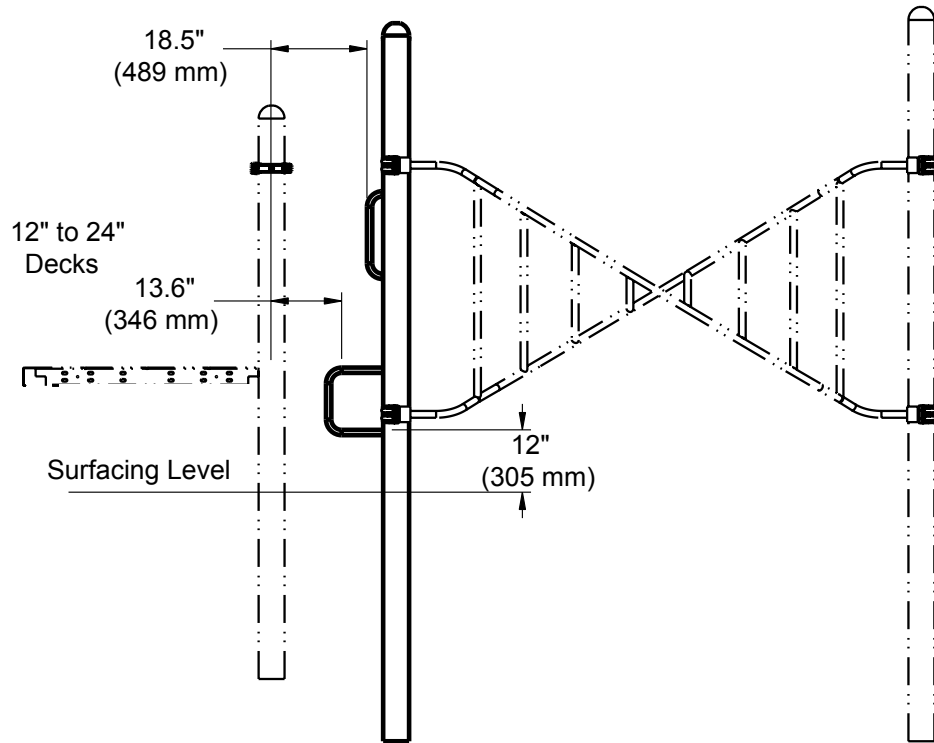
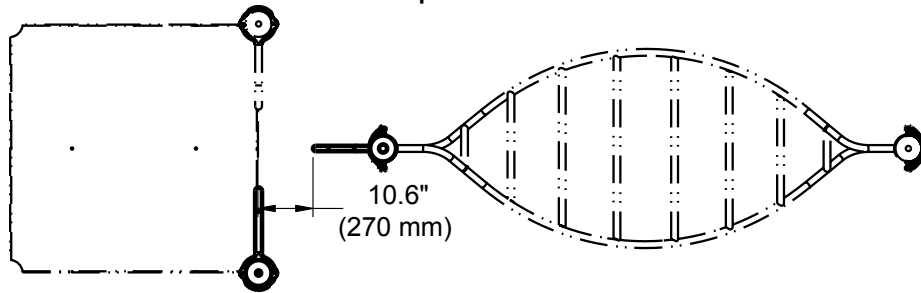
Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hour
 Weight: (refer to table)
 Concrete Required: 0.13=8 cubic yard (0,14 cubic meters)
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

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

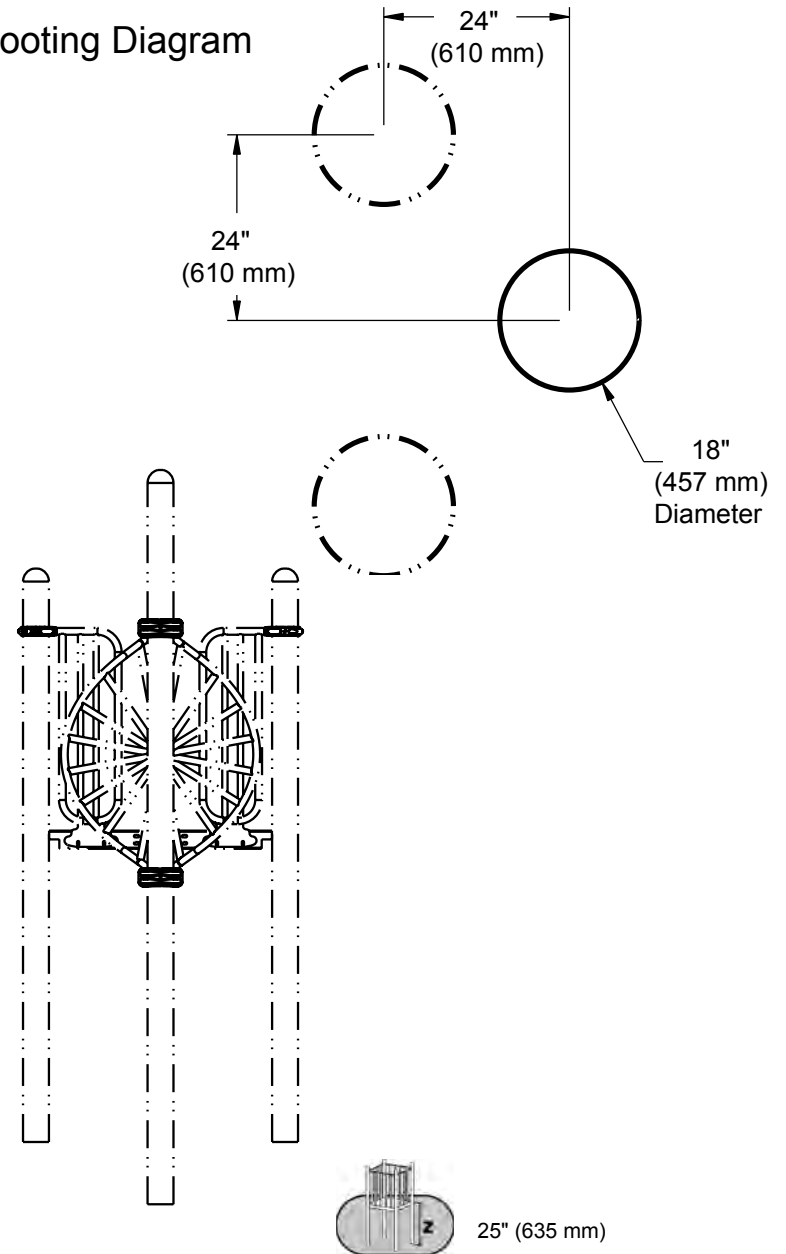
Installation Instructions

Top View



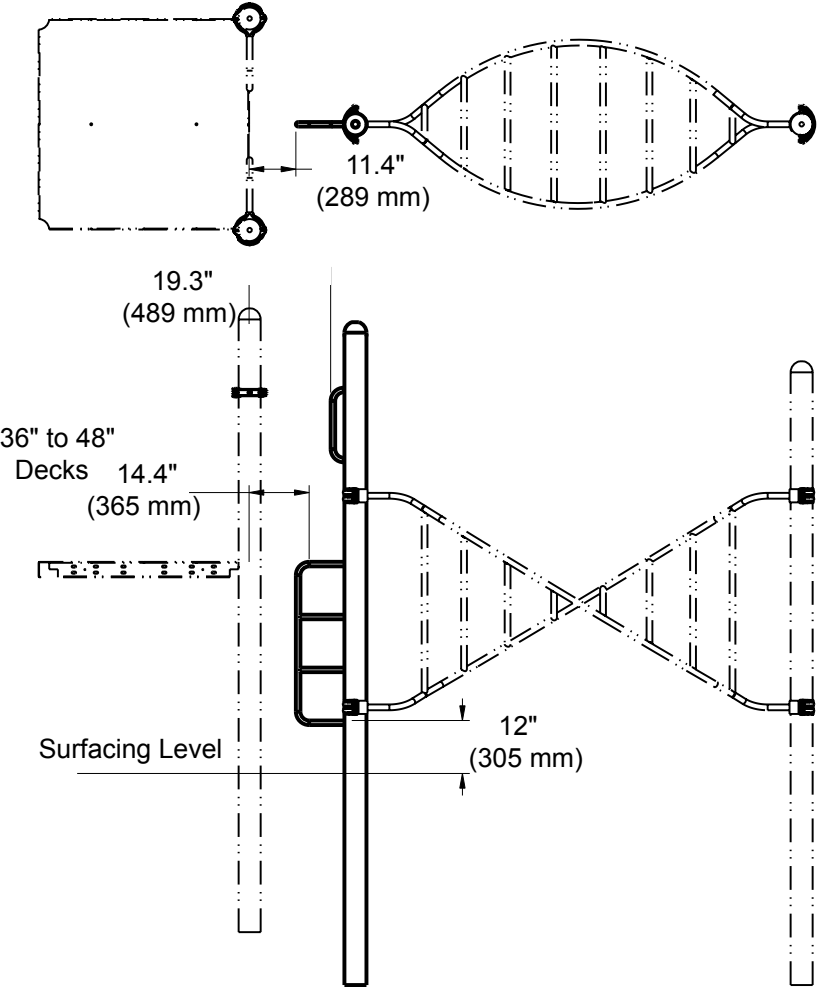
Elevation Views
ZZPM0296

Footing Diagram

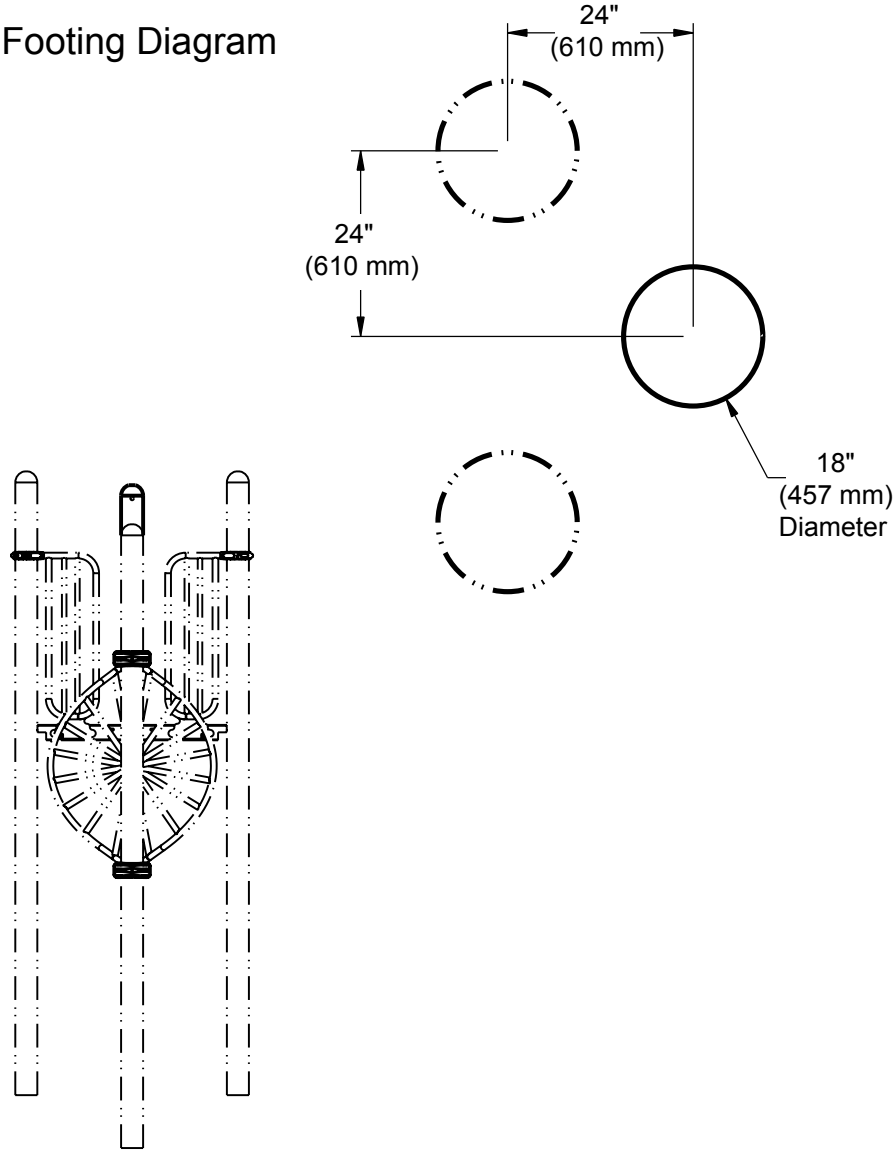


Installation Instructions

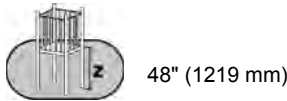
Top View



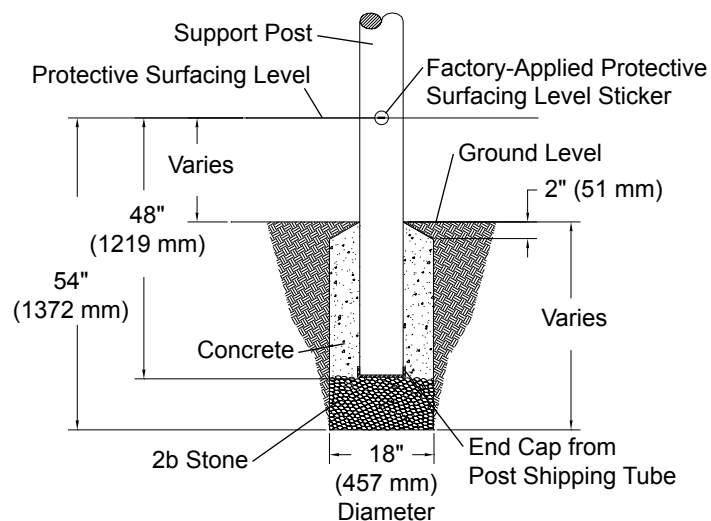
Footing Diagram



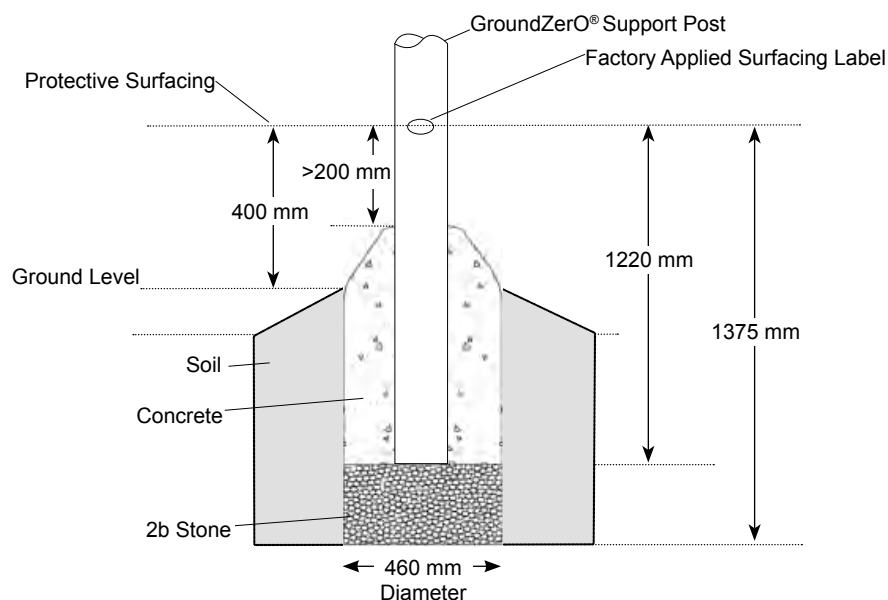
Elevation Views
ZZPM0297



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.

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 **Footings Details** on **page 4** of this document.

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.



Step 3



Detail A
Step 4



Step 5

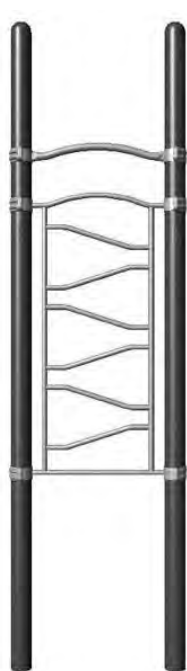
PM0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0043	POST - 5.00" O.D. x 136.00" w/CAP & LADDER (GZ)	1

PM0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0044	POST - 5.00" O.D. x 148.00" w/CAP & LADDER (GZ)	1





PM8467



PM8468

Assembly View

Installation Instructions




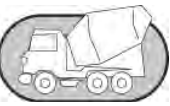



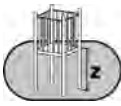
Playmakers® Models PM8467 & PM8468

The Vertical Wave & The Spacer

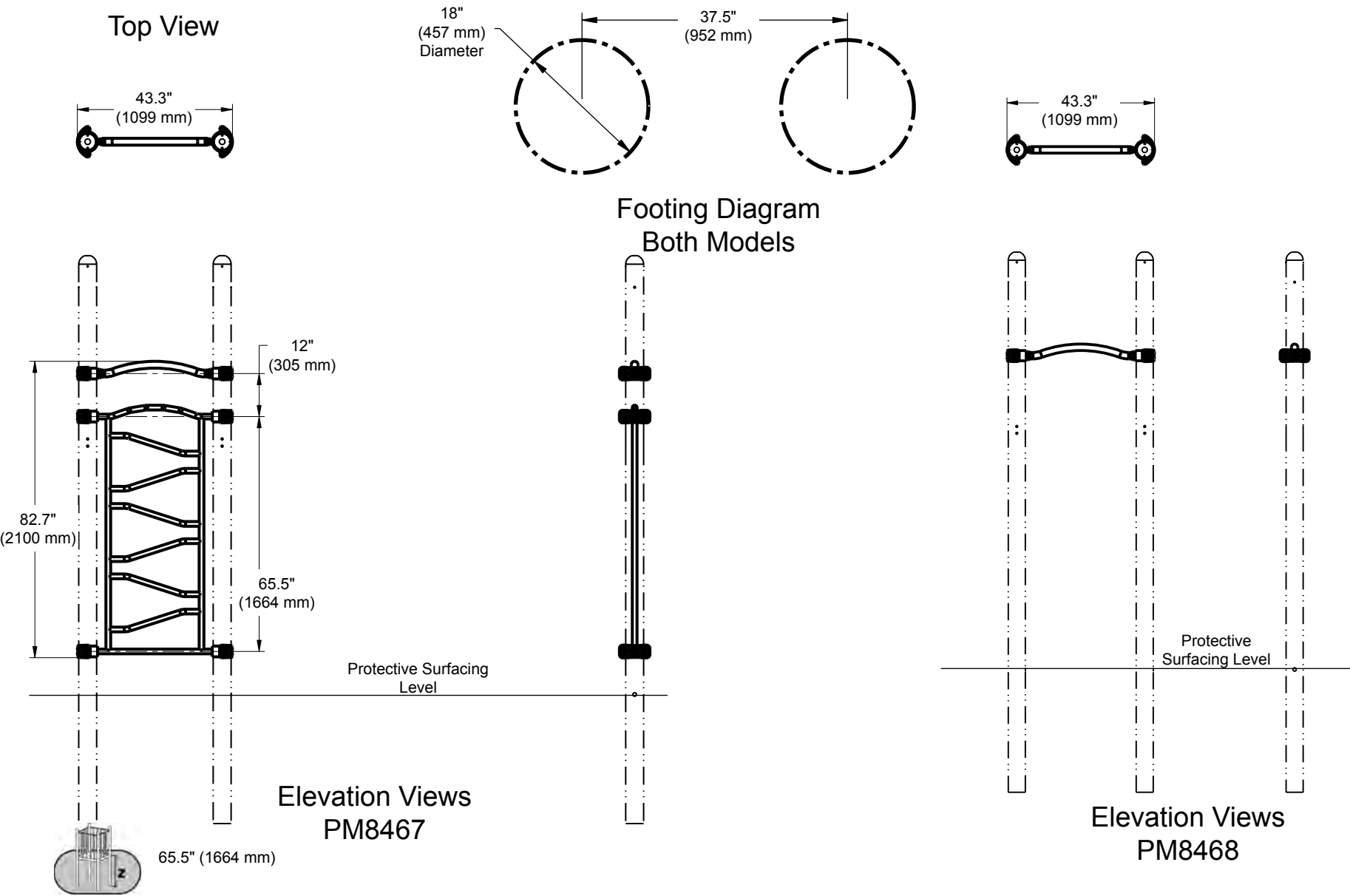
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 0.5 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

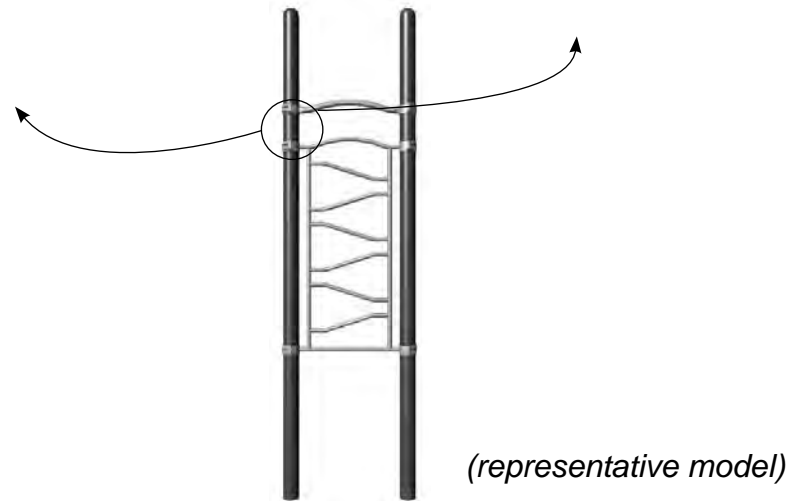
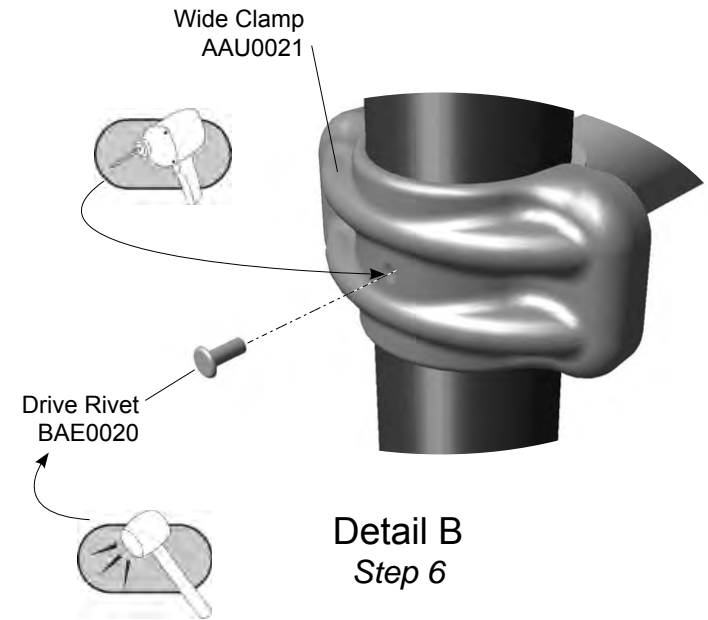
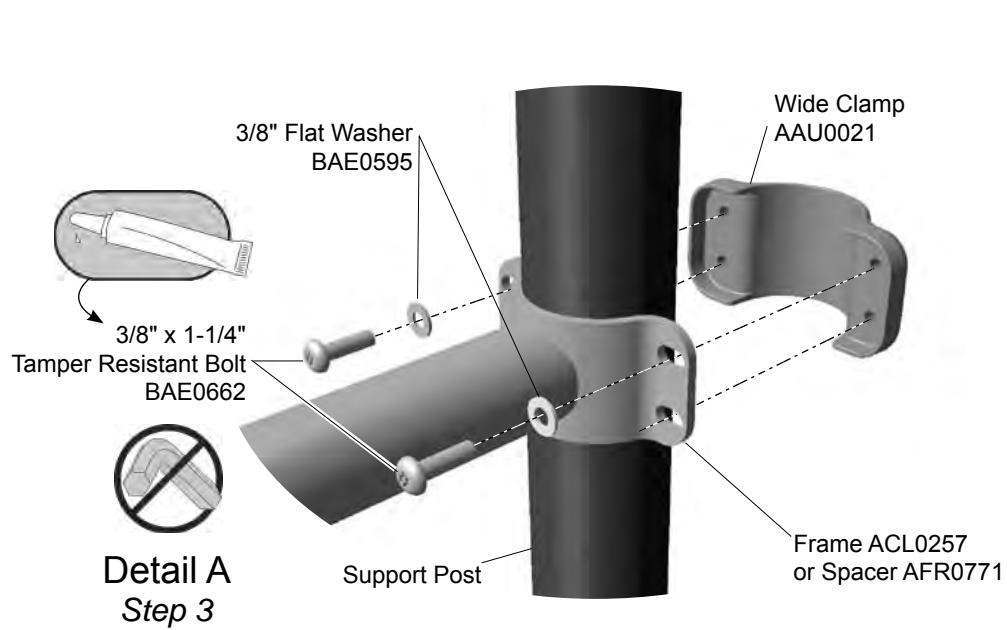
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



Installation Instructions

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 frame and/or the spacer to the support posts.

Step 3: See **Detail A**. Select the clamps, the spacer, the frame, and the appropriate hardware. There are (16) sixteen frame connections and/or (8) spacer connections. Place the frame and/or spacer at 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. Ensure component is 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, 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.



PM8467 - THE VERTICAL WAVE

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	6
ACL0257	FRAME - 70.16" x 37.24" x 7.81" (PM)	1
AFR0771	FRAME - 37.24" x 7.81" x 4.91" - (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	24

PM8468 - THE SPACER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0771	FRAME - 37.24" x 7.81" x 4.91" - (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" TMPR RESISTANT w/TORX DRIVE	8



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Assembly View (representative model)

Model	Deck Height
ZZPM5950	12" (305 mm)
ZZPM5960	24" (610 mm)
ZZPM5970	36" (915 mm)

Installation Instructions




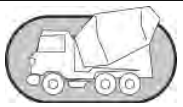
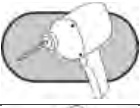

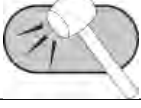
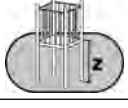
Playmakers® Models PM5950,
PM5960, and PM5970

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

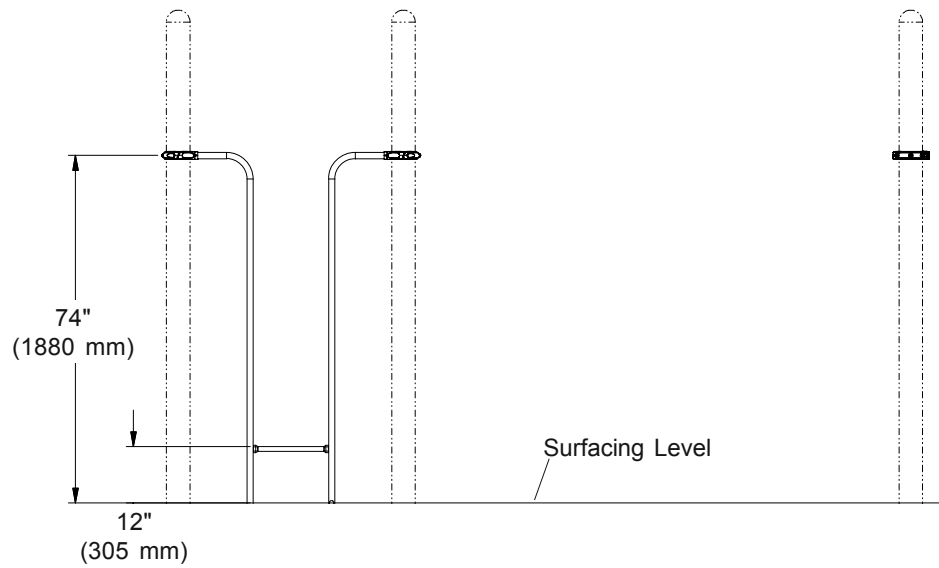
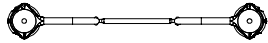
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1.5 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: 2-14

ICON KEY

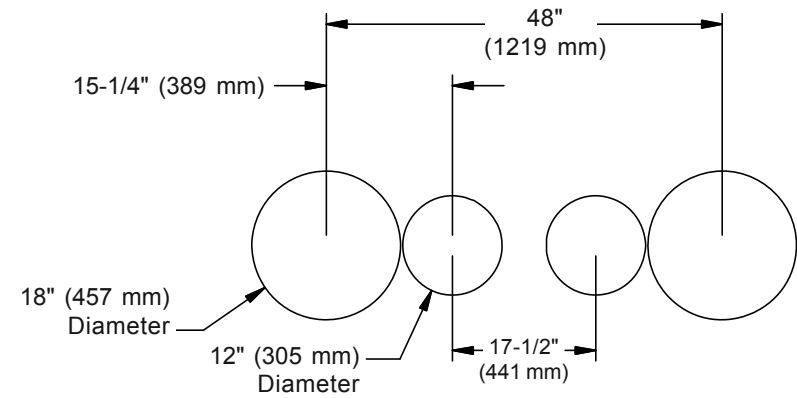
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



Elevation View

Elevation Views
PM5950



Footing Diagram
All Models



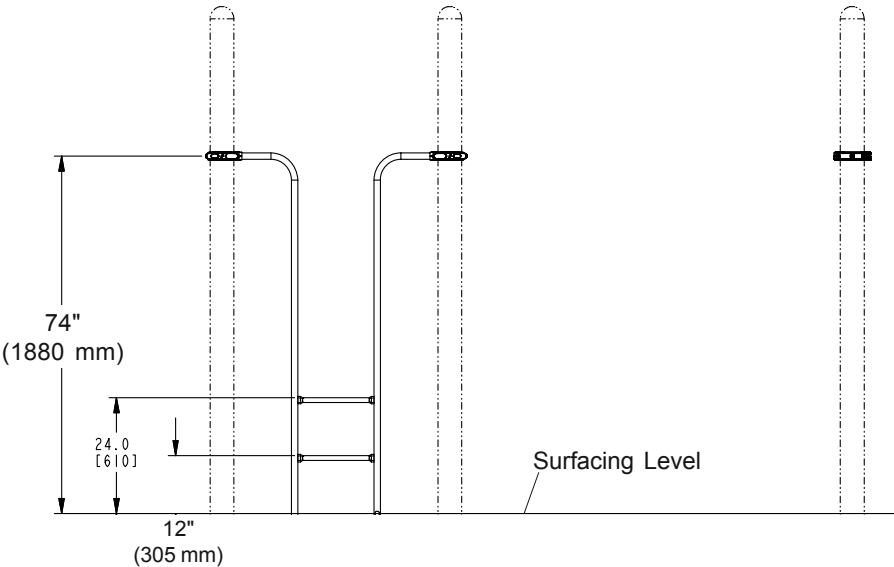
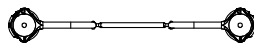
12" (305 mm)

Installation Instructions

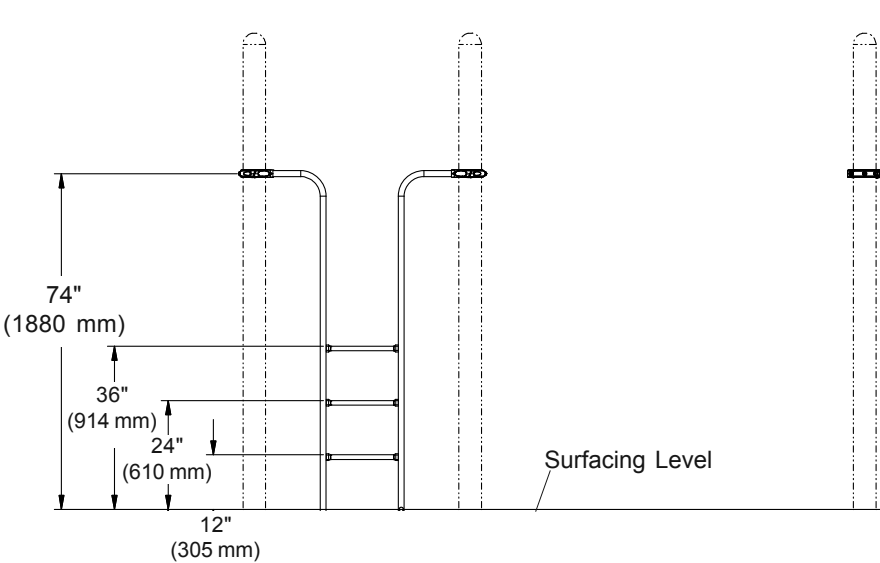
Top View



Top View



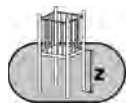
Elevation Views
PM5960



Elevation Views
PM5970



24" (610 mm)

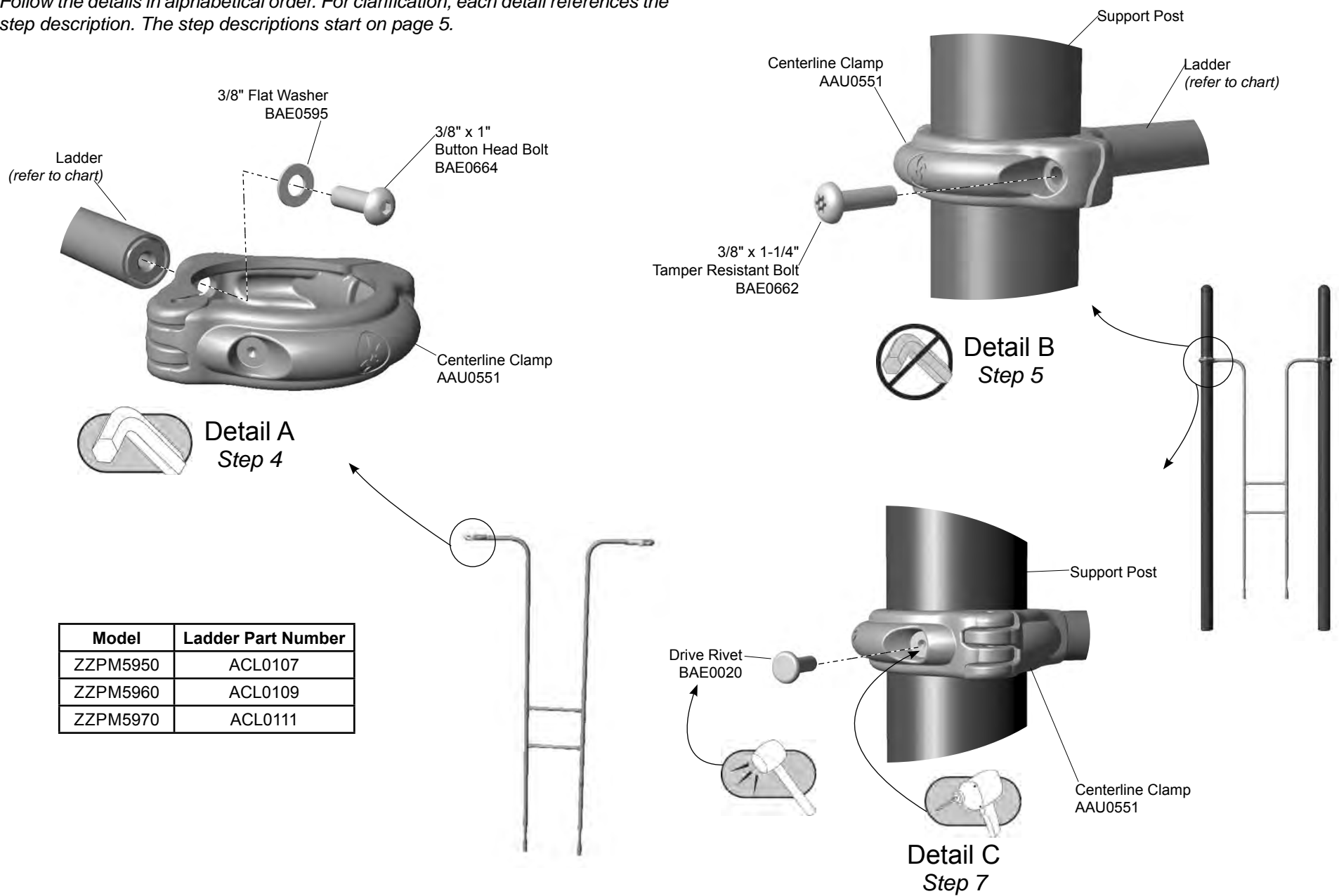


36" (914 mm)



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



SUPERVISION INSTRUCTIONS

PLAYWORLD SYSTEMS® OVERHEAD COMPONENTS (SEE COMPONENT LISTING BELOW)

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.
- Avoid speed contests or trying to cover too large a distance in one move.

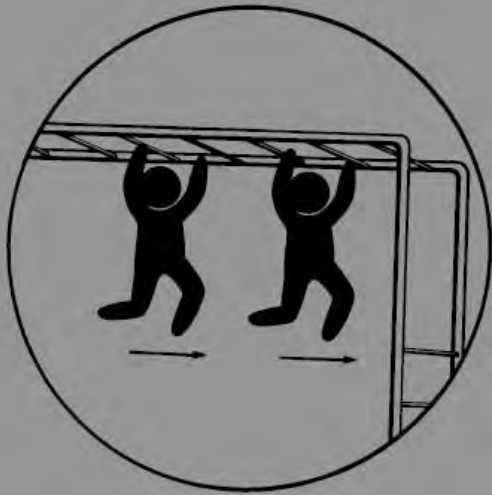
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Overhead Component in accordance with ASTM specification F1292 appropriate for the fall height of the Overhead Component .
- Review and familiarize 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







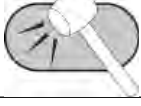
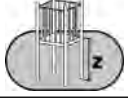
120 in. (3048 mm)

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

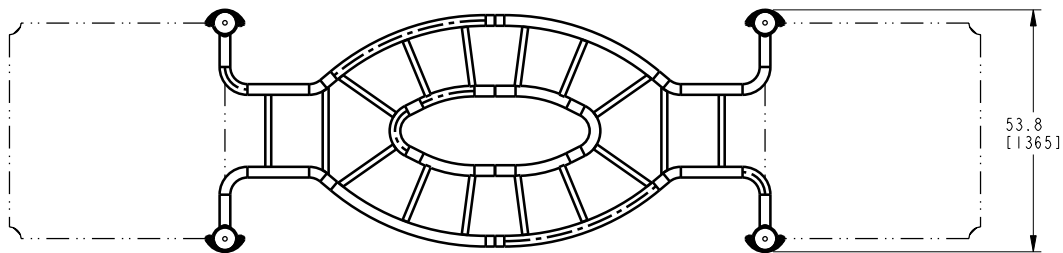
ICON KEY

	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

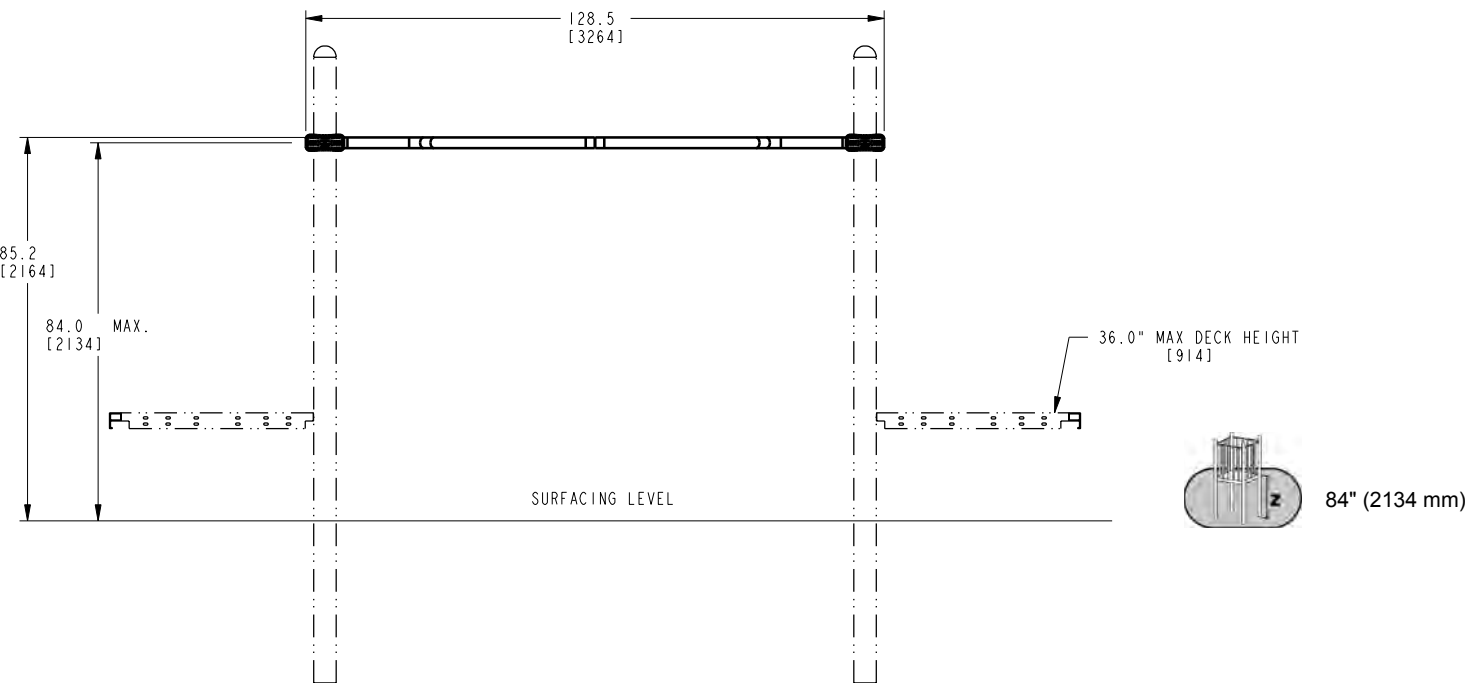
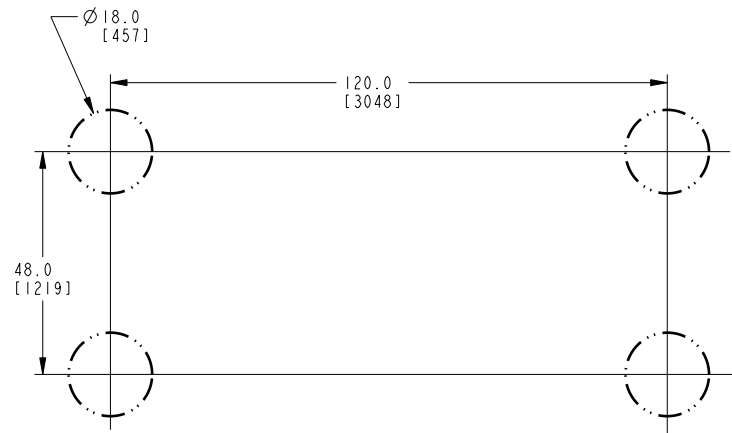
Installation Instructions

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

Top View



Footing Diagram

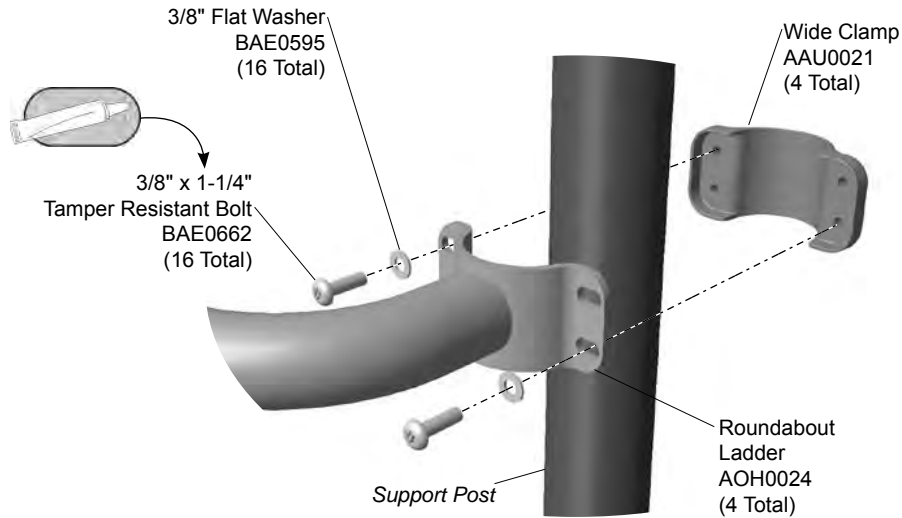


Elevation View

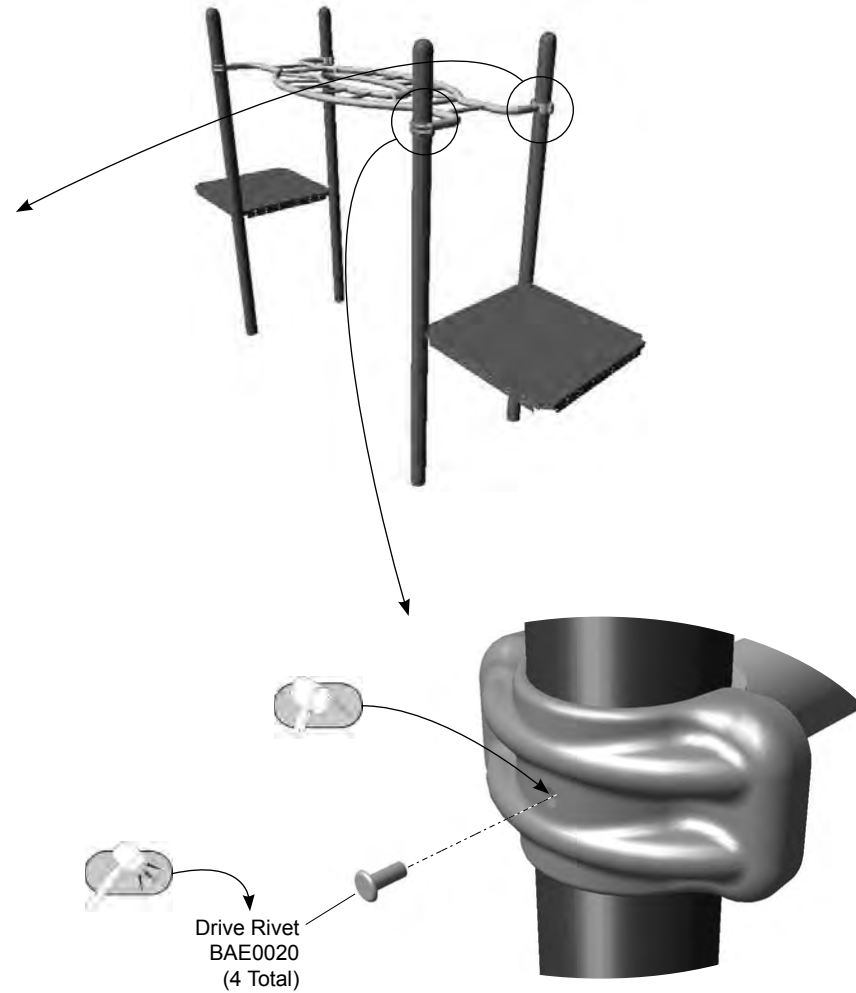


Installation Instructions

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



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® Models PM7080 and PM6890




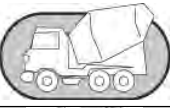



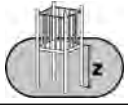
6 ft. (1829 mm) and 10 ft. (3048 mm)

Catwalk

Installation Preparation

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

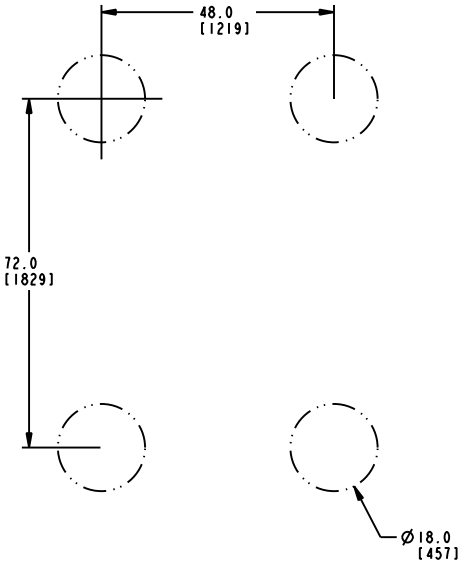
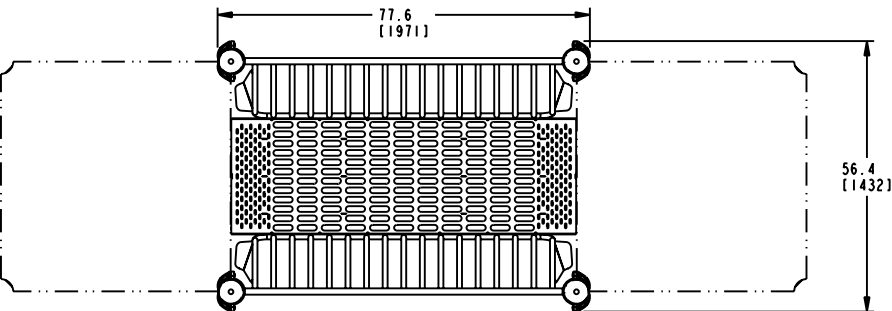
ICON KEY

	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

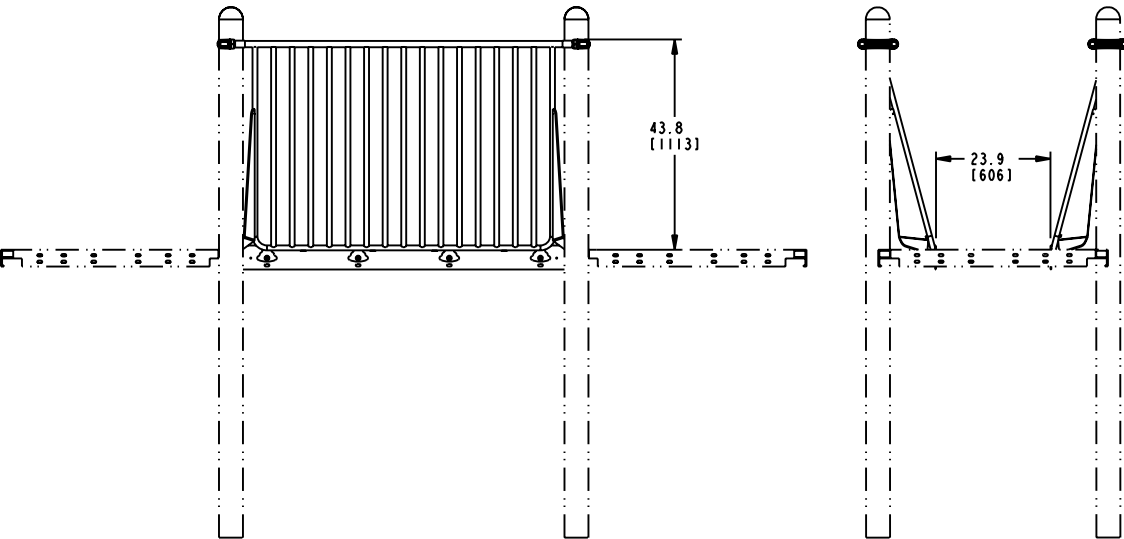
Installation Instructions

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

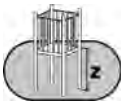
Top View



Footing Diagram



Elevation View
PM7080



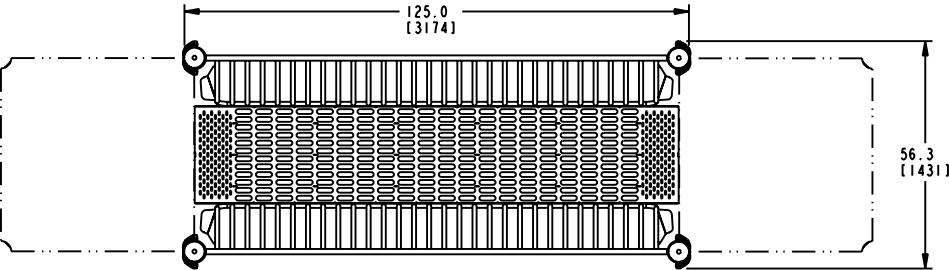
Equal to the height of the deck.



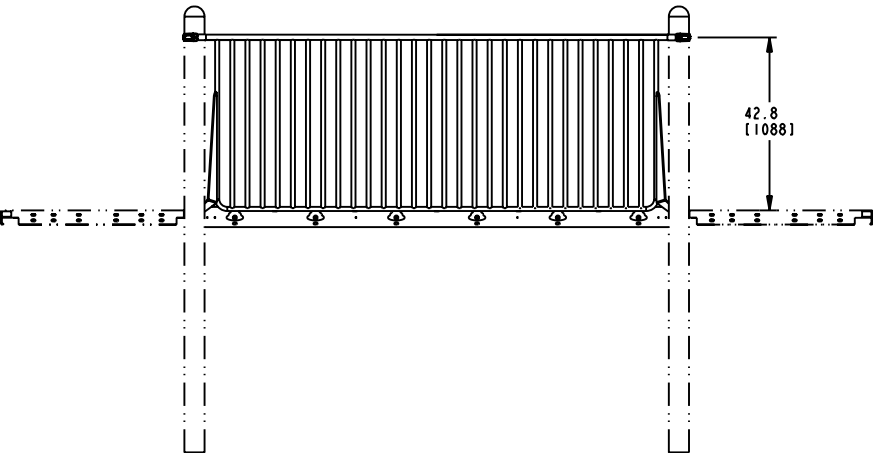
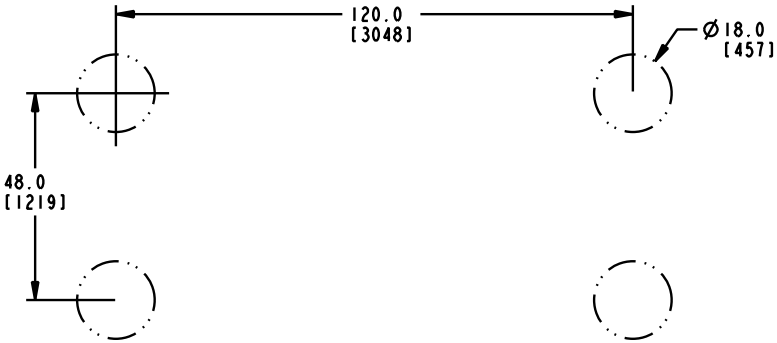
Installation Instructions

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

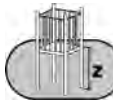
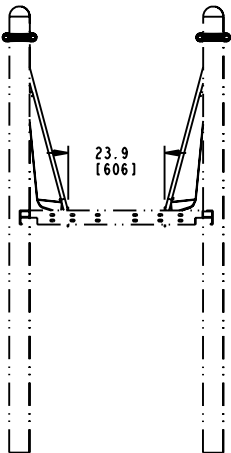
Top View



Footing Diagram



Elevation View
PM6890

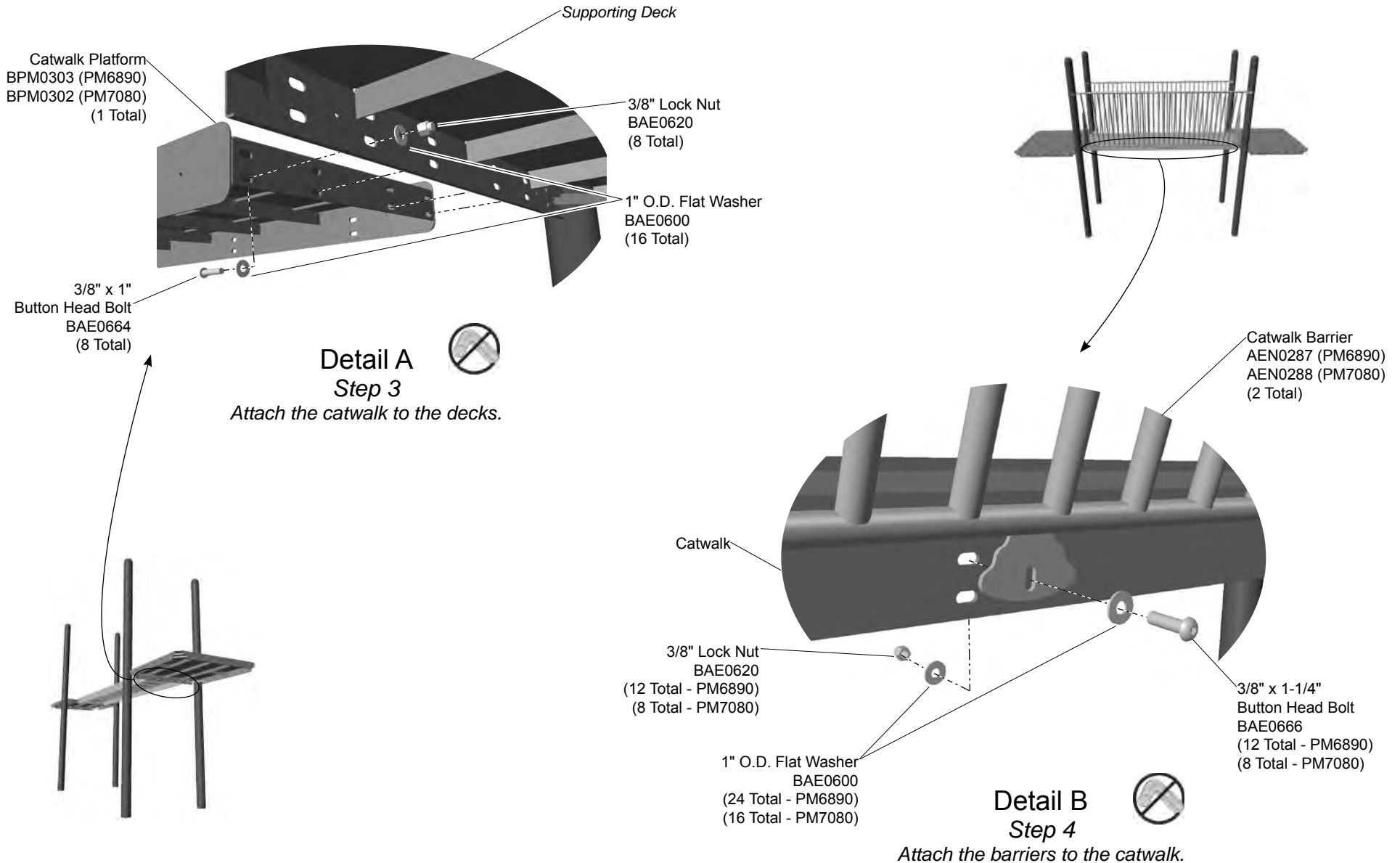


Equal to the height of the deck.

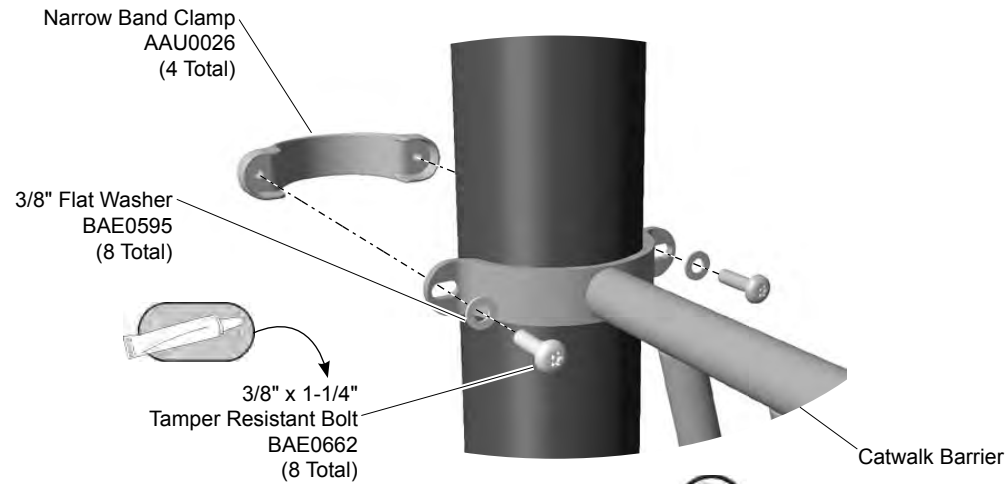


Installation Instructions

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

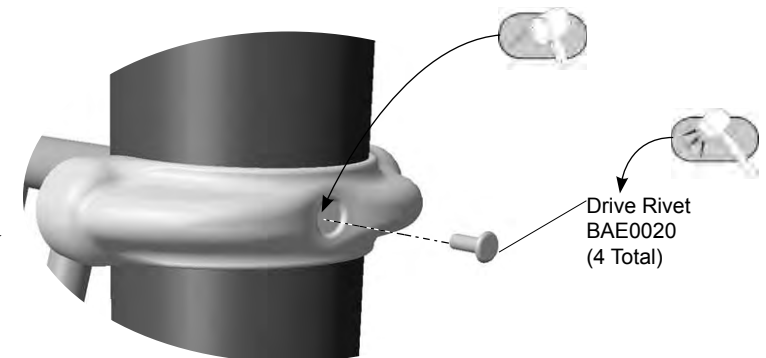
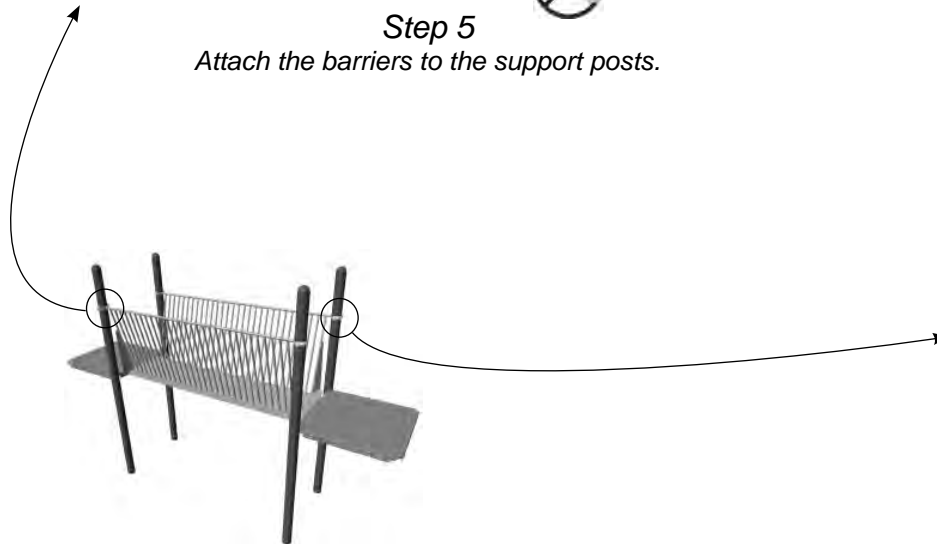


Installation Instructions



Detail C
Step 5

Attach the barriers 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.

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 barriers to the catwalk.

Important Note: There are upper holes (preferred) and lower holes along the side of the catwalk for barrier attachment. Choose the hole set that will avoid adjacent clamp interference. Both barriers should be mounted at the same height.

Step 4: Attach the barriers to the catwalk. See **Detail B**. Position each barrier against the side of the catwalk with the top rail clamp bands around the support posts and attach as shown. Leave the connections loose. The barriers should be supported until the narrow clamp bands are attached.

Attach the narrow clamp bands to the barriers.

Step 5: Attach the narrow clamp bands to the barriers. See **Detail C**. Position each narrow clamp band around a support post and aligned with a barrier top rail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Snug tighten the connections.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Make sure the top of the catwalk is flush to and level with the deck.

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, 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.

PM7080 - 6 ft. (1829 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0288	BARRIER - 71-7/16" x 46-1/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BPM0302	PLATFORM - 71.88" x 24.21" x 5" CATWALK	1

PM6890 - 10 ft. (3048 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0287	BARRIER - 119-9/516 x 45-1/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	12
BPM0303	PLATFORM - 119.88" x 24.21" x 5.00" CATWALK	1



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Assembly View

Installation Instructions

Playmakers®




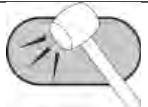



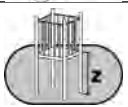
Model PM9846

Cabana Roof

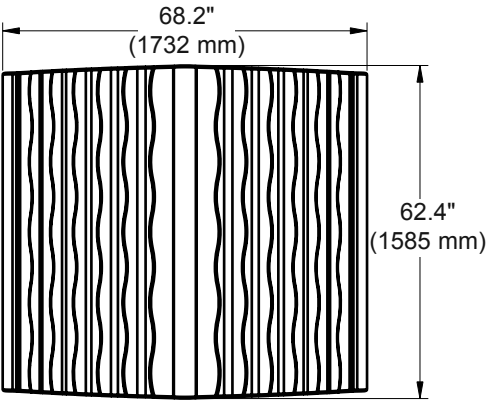
Installation Preparation

Recommended Crew: Two (2) adults

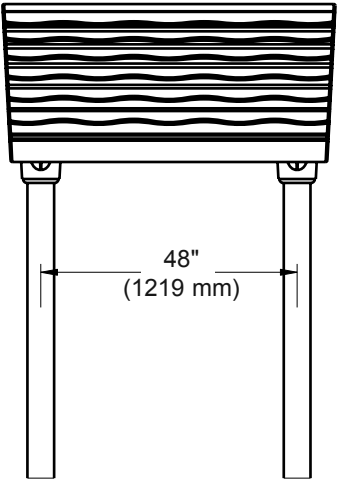
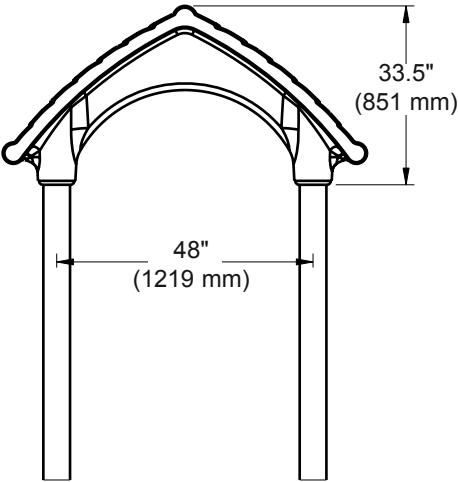
Installation Time: 1 man-hour

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



Top View



Elevation Views
ZZPM9846

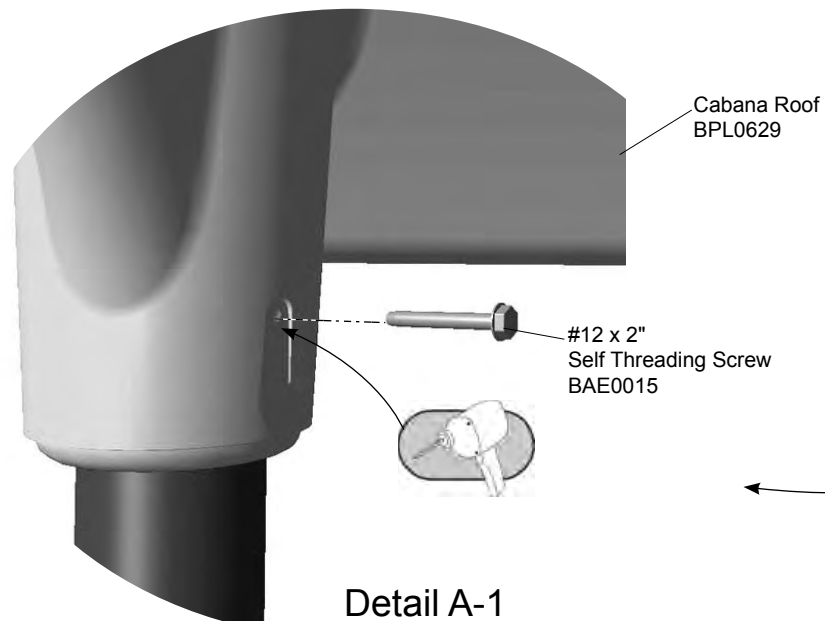


Installation Instructions

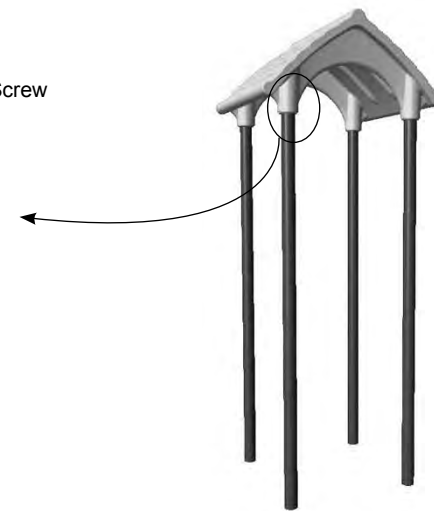
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



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:

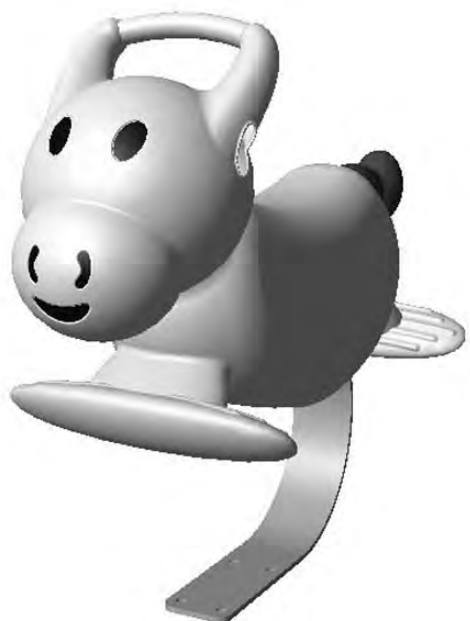
Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

PM9846 - CABANA ROOF

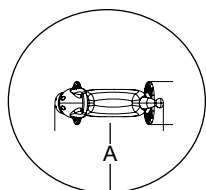
PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1





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

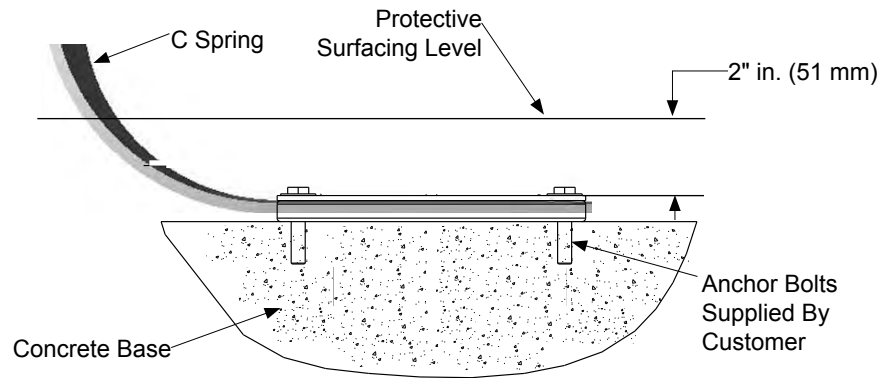
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 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.

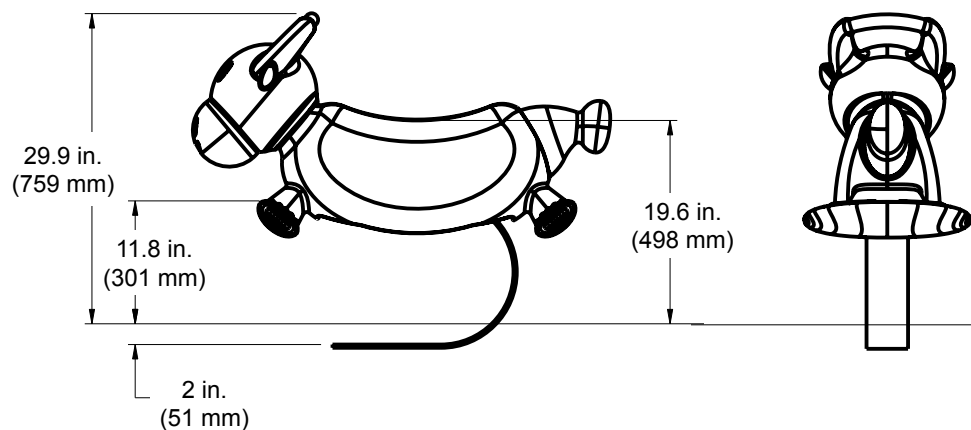
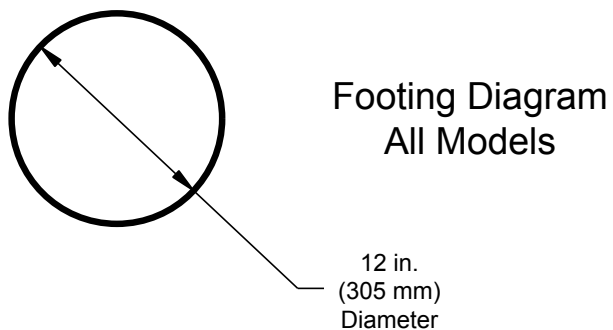
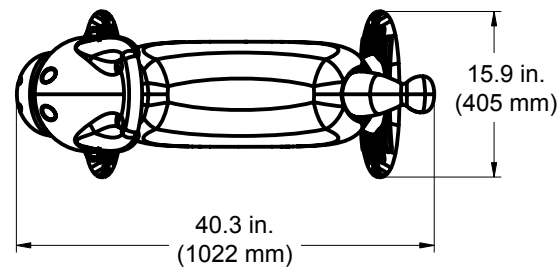
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Model	Animal
ZZXX0561	Cow
ZZXX0562	Cow w/ Sound
ZZXX0563	Horse
ZZXX0564	Horse w/ Sound
ZZXX0565	Ladybug
ZZXX0566	Ladybug w/ Sound
ZZXX0567	Bee
ZZXX0568	Bee w/ Sound

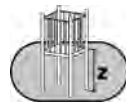


Top View



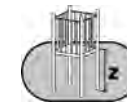
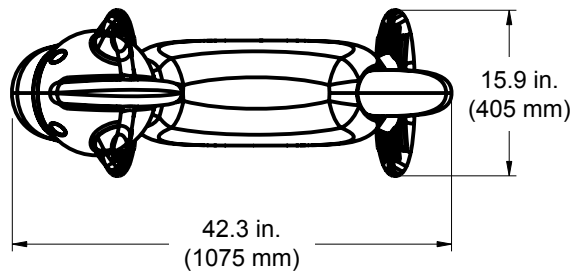
Elevation Views
XX0561 & XX0562

Installation Instructions



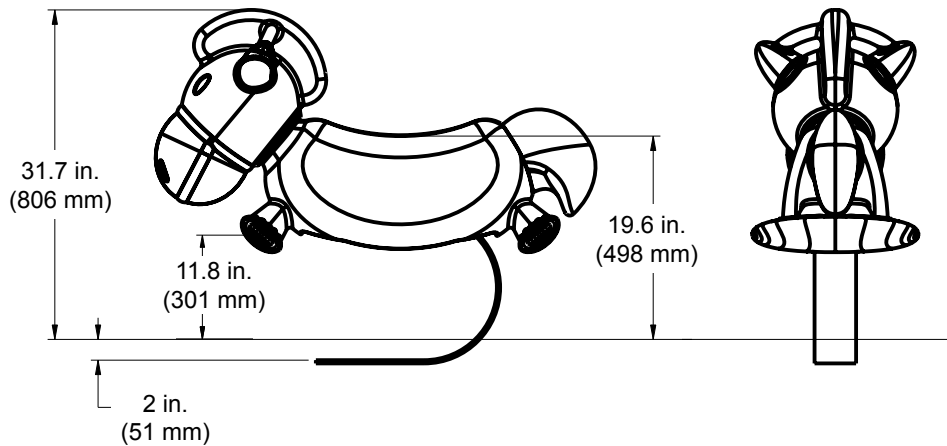
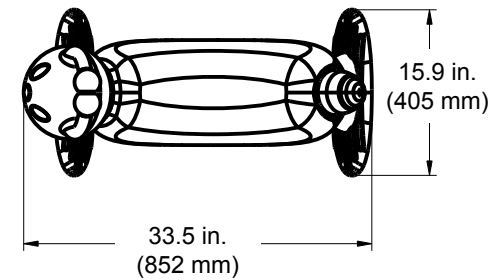
19.6" (498 mm)

Top View

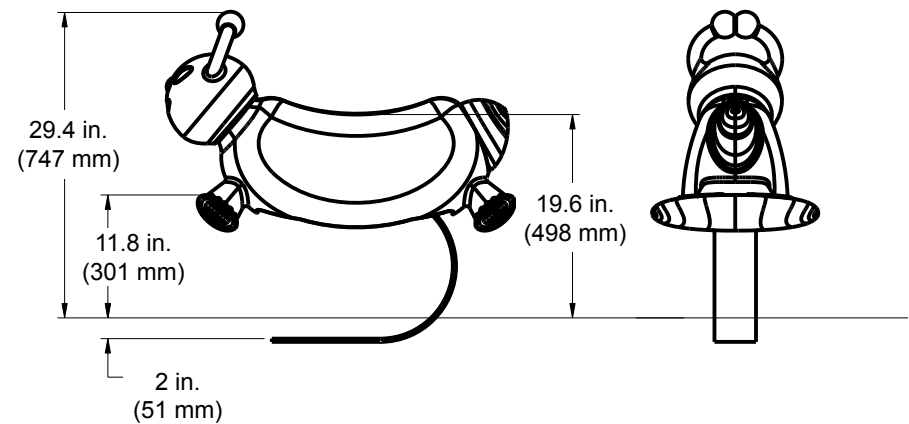


19.6" (498 mm)

Top View



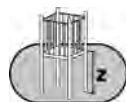
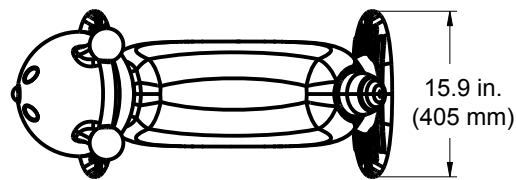
Elevation Views
XX0563 & XX0564



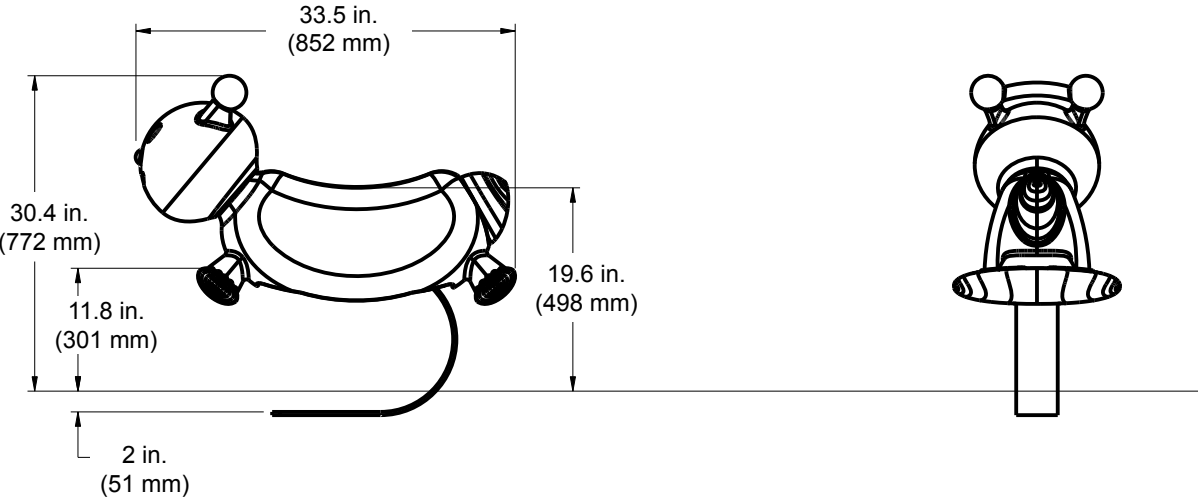
Elevation Views
XX0565 & XX0566

Installation Instructions

Top View



19.6" (498 mm)

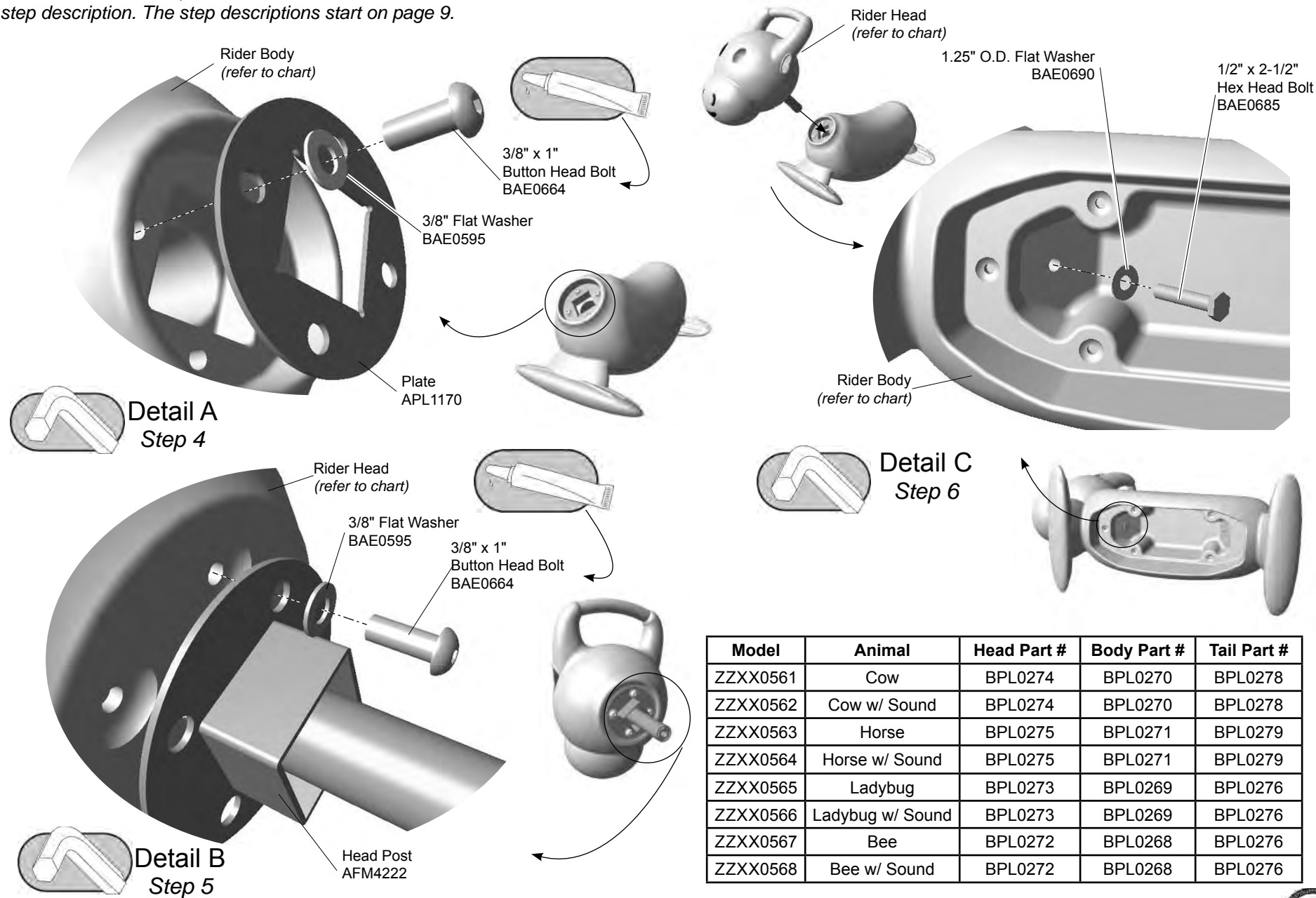


Elevation Views
XX0567 & XX0568



Installation Instructions

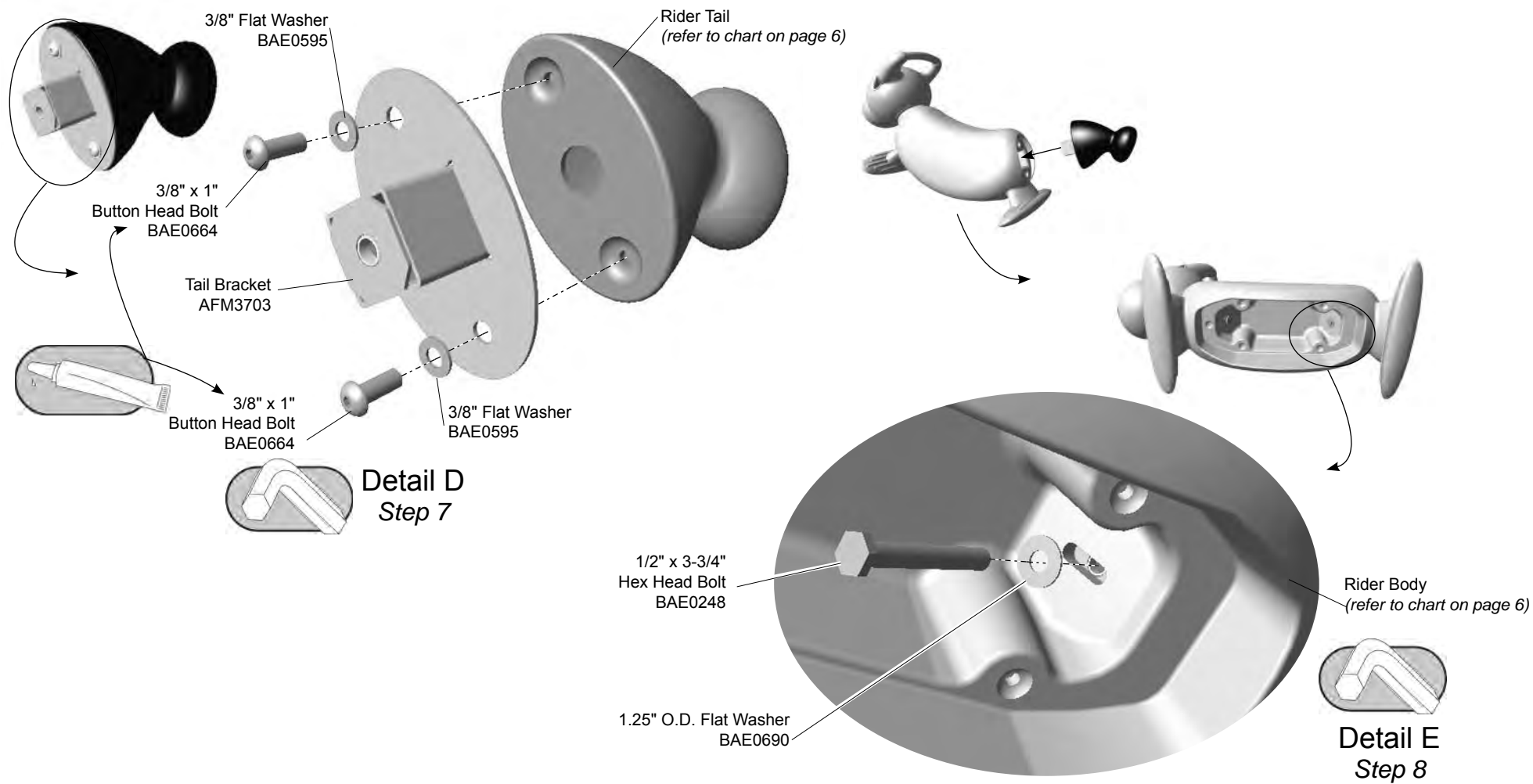
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



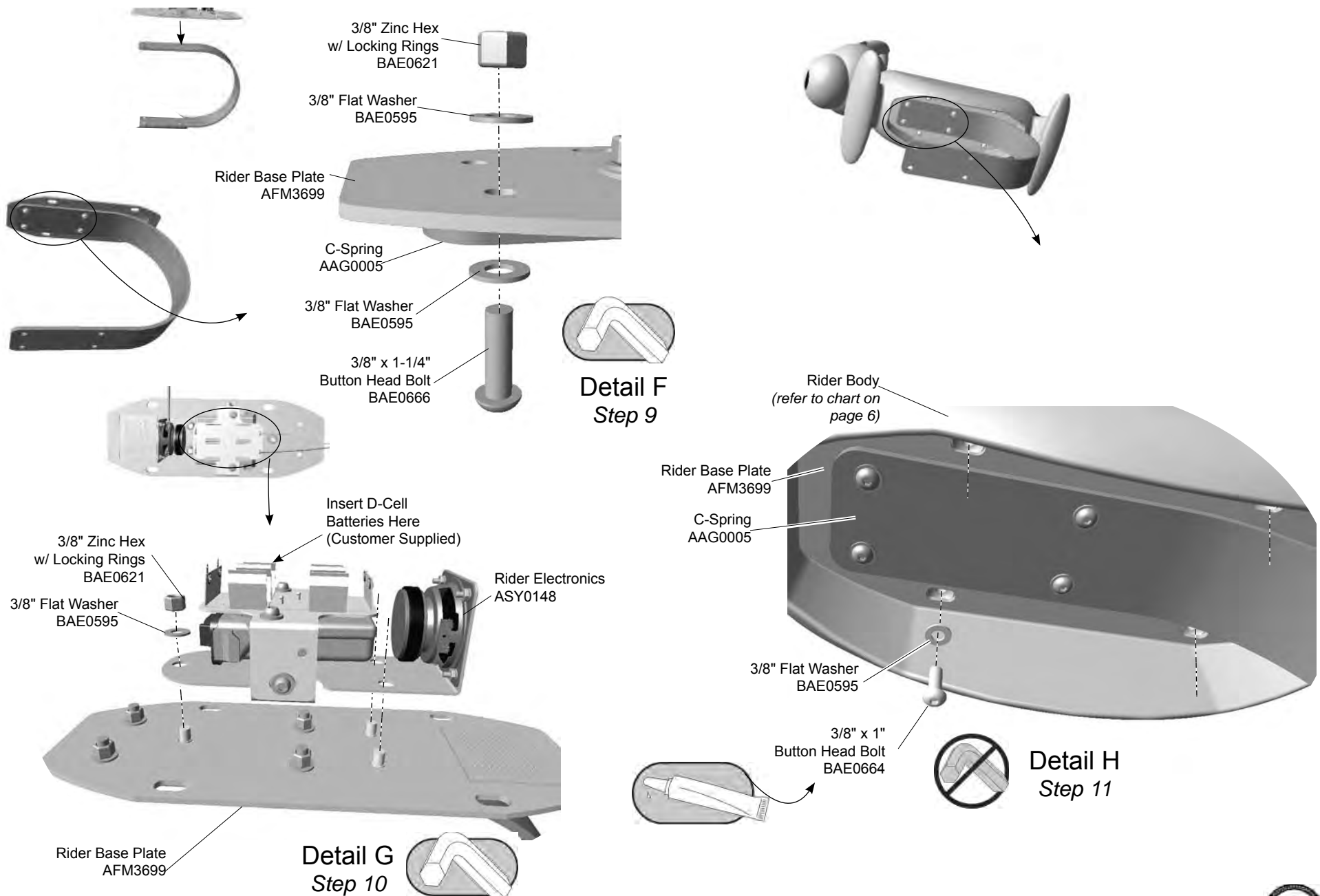
Model	Animal	Head Part #	Body Part #	Tail Part #
ZZXX0561	Cow	BPL0274	BPL0270	BPL0278
ZZXX0562	Cow w/ Sound	BPL0274	BPL0270	BPL0278
ZZXX0563	Horse	BPL0275	BPL0271	BPL0279
ZZXX0564	Horse w/ Sound	BPL0275	BPL0271	BPL0279
ZZXX0565	Ladybug	BPL0273	BPL0269	BPL0276
ZZXX0566	Ladybug w/ Sound	BPL0273	BPL0269	BPL0276
ZZXX0567	Bee	BPL0272	BPL0268	BPL0276
ZZXX0568	Bee w/ Sound	BPL0272	BPL0268	BPL0276



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 - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. 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 - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. 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 - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. 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 - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. 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 - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. 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 - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. 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



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 - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. 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 - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. 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

- 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 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: ___ / ___ / ___



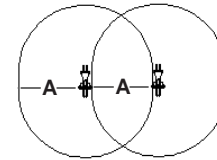
Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging 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.

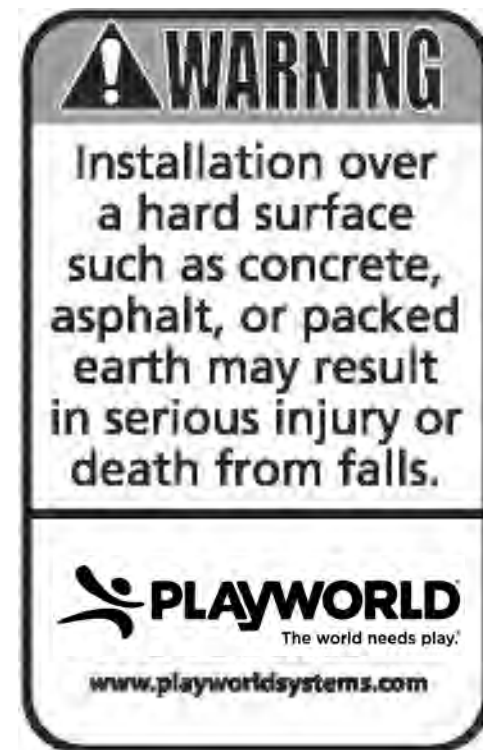
Supervision Guidelines

- 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 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)

Installation Instructions

Playmakers® Models PM8480 and PM8486







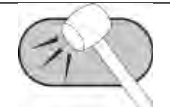
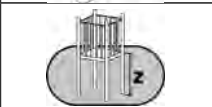
6 ft. (1829 mm) and 10 ft. (3048 mm)

Ripple Bridge

Installation Preparation

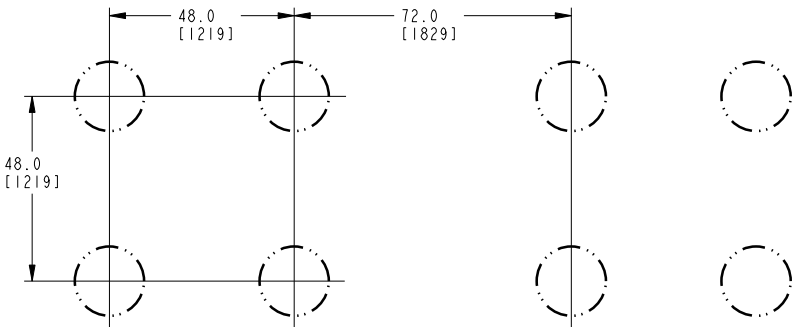
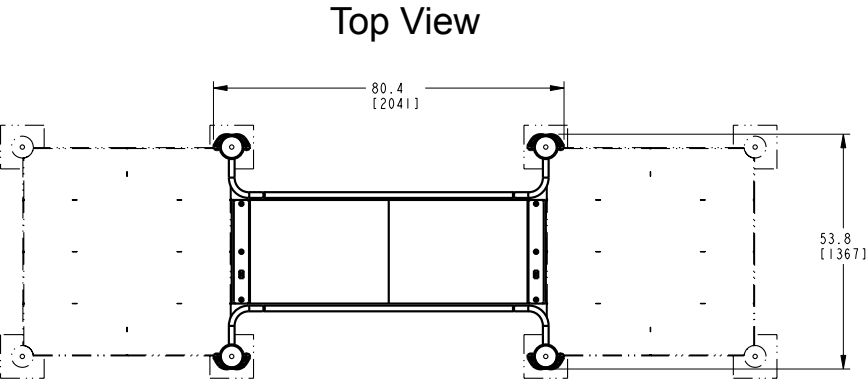
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

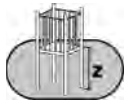
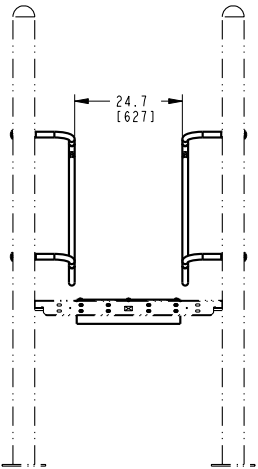
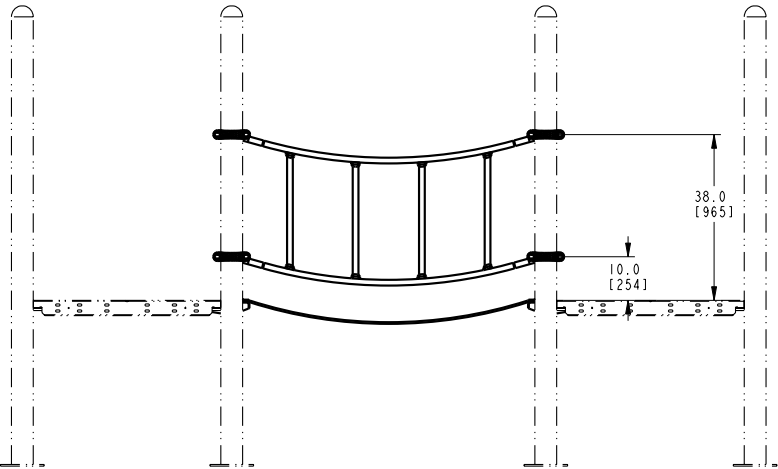
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

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



Footing Diagram



Equal to the height of the deck.

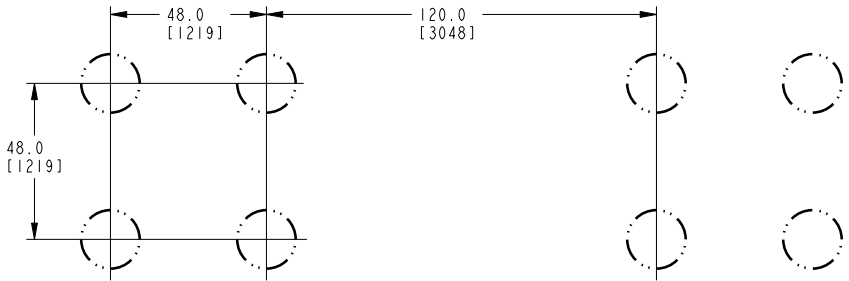
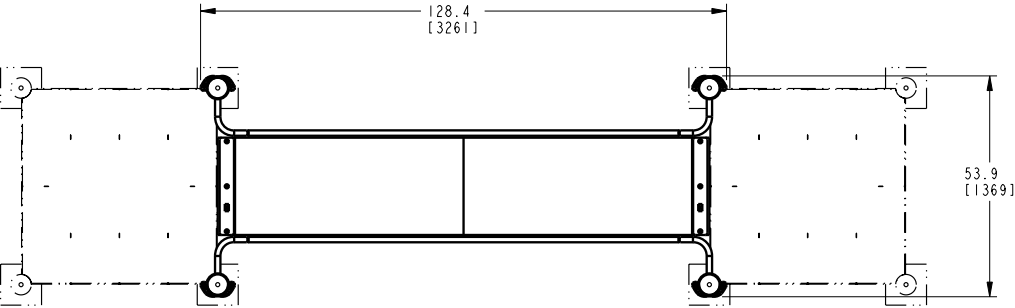
Elevation Views
PM8480



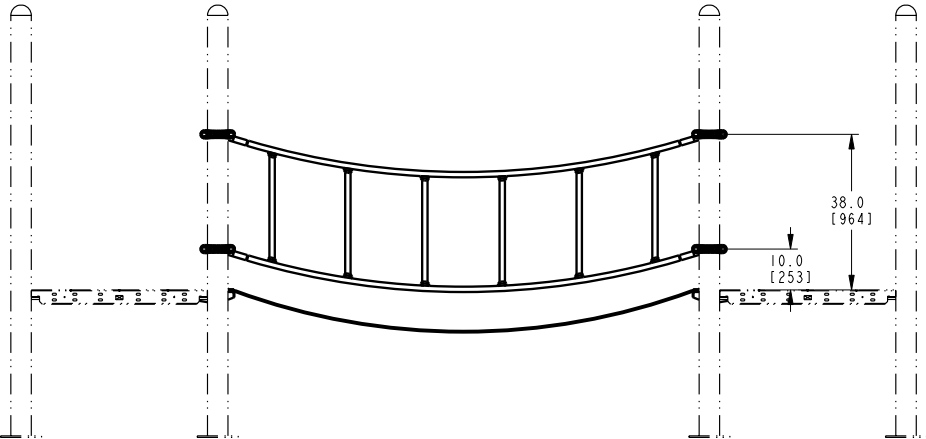
Installation Instructions

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

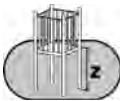
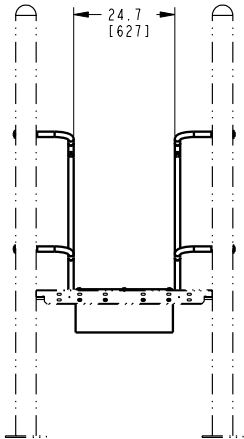
Top View



Footing Diagram



Elevation Views
PM8486

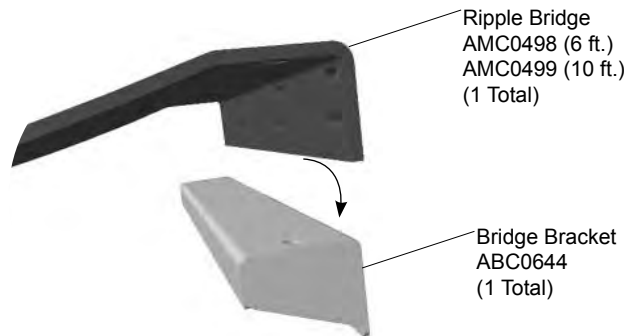


Equal to the height of the deck.



Installation Instructions

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



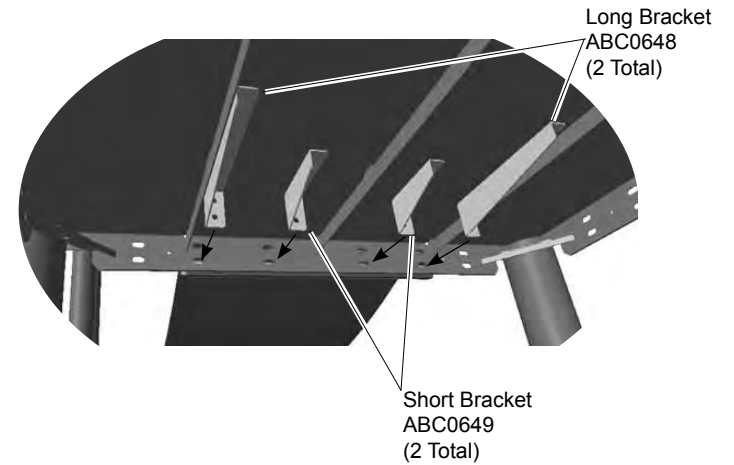
Detail A-1

Fold one end of the bridge down over the bracket and align the holes.



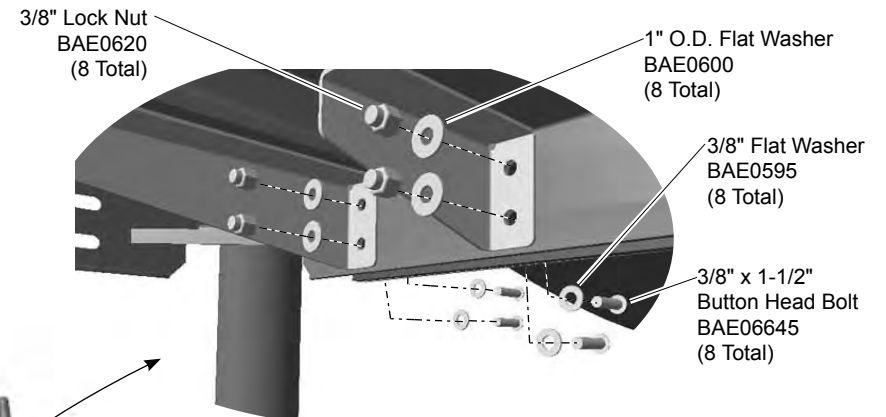
Detail A-2

Position the bridge and bracket against a deck and align the holes.



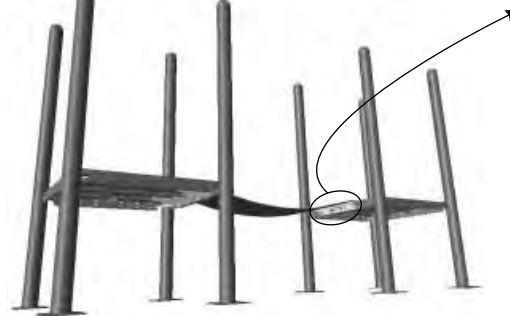
Detail A-3

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

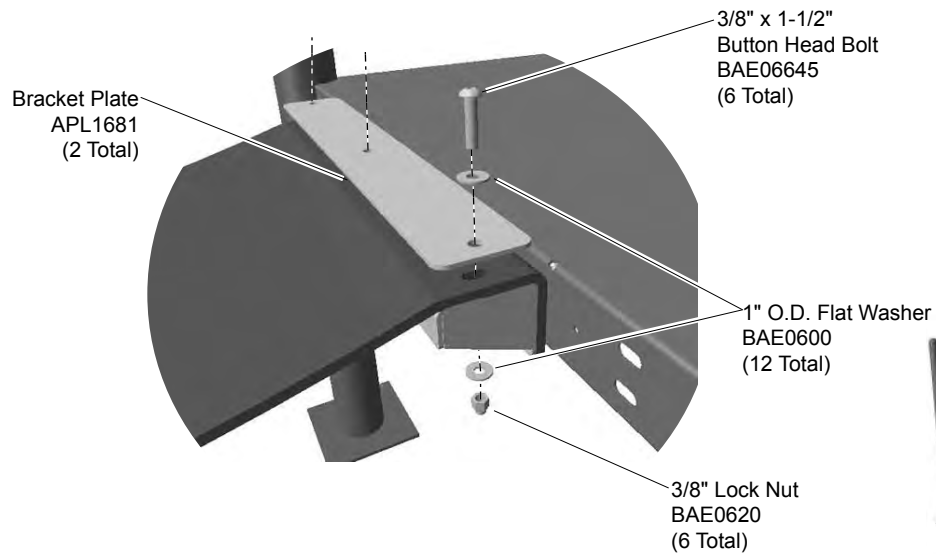
Attach one end of the bridge to a deck.



Installation Instructions

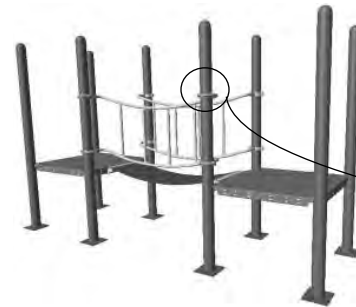
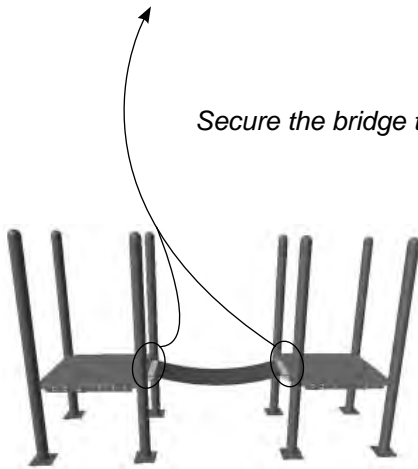
Step 4

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



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.playworld.com



Assembly View (representative model)

Installation Instructions







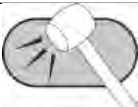
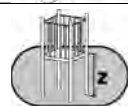
Playmakers®

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

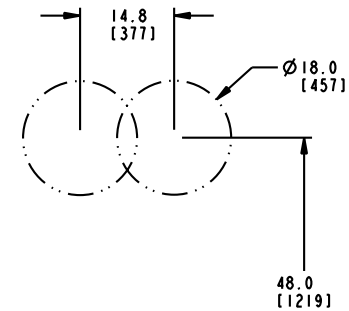
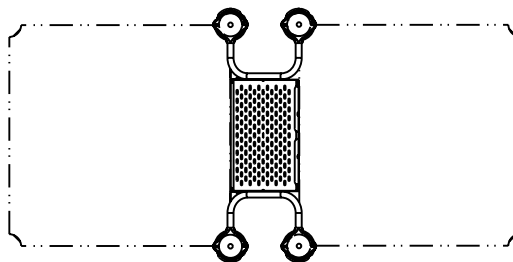
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

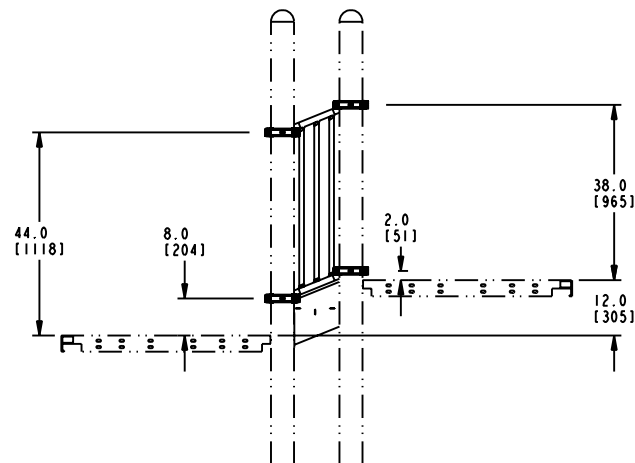
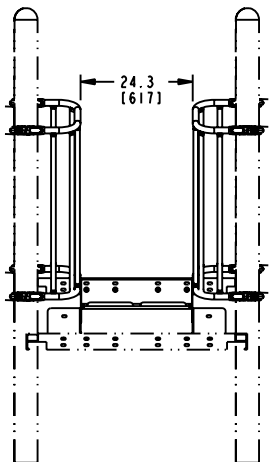
KEY

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

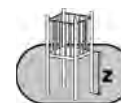
Top View



Footing Diagram



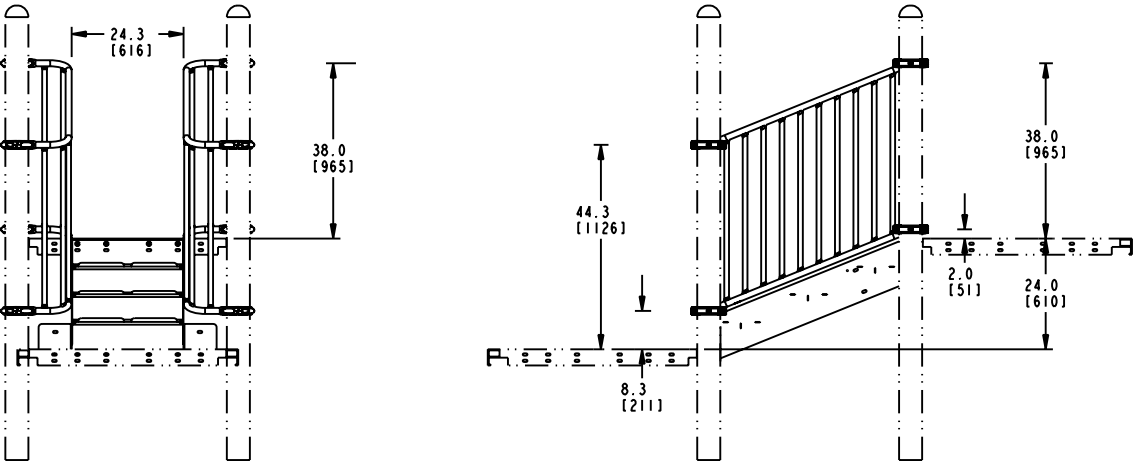
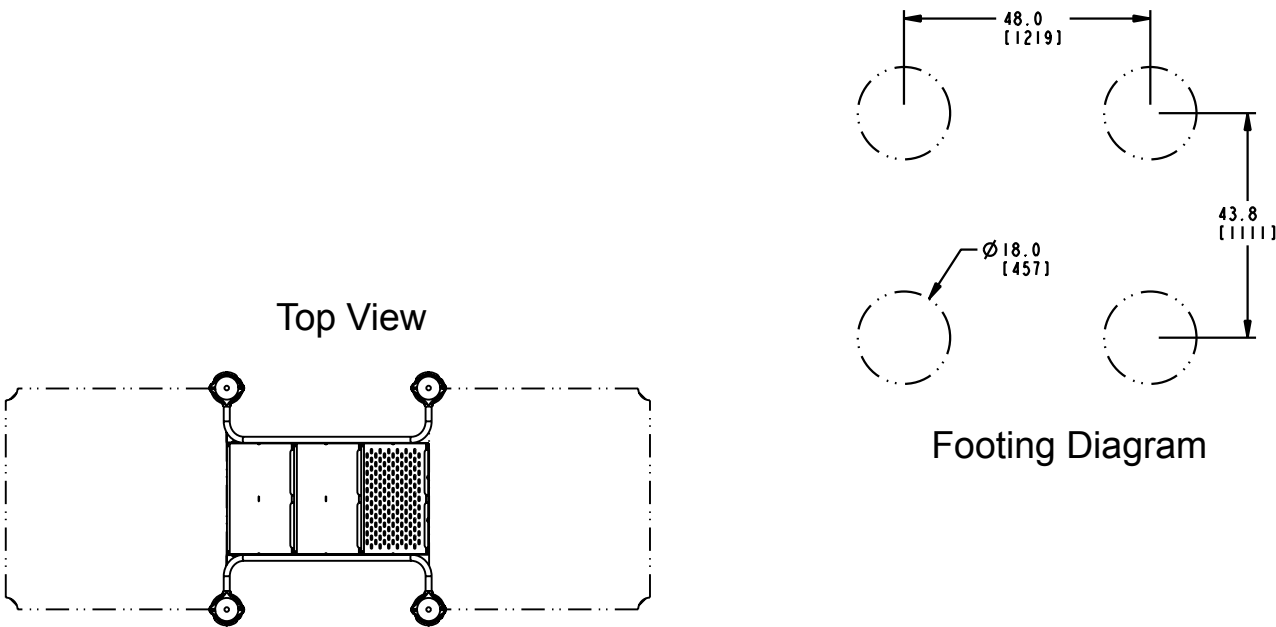
Elevation Views
PM9168



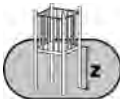
Height of the upper deck
minus 6" (152 mm)

Installation Instructions

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



Elevation Views
PM9170



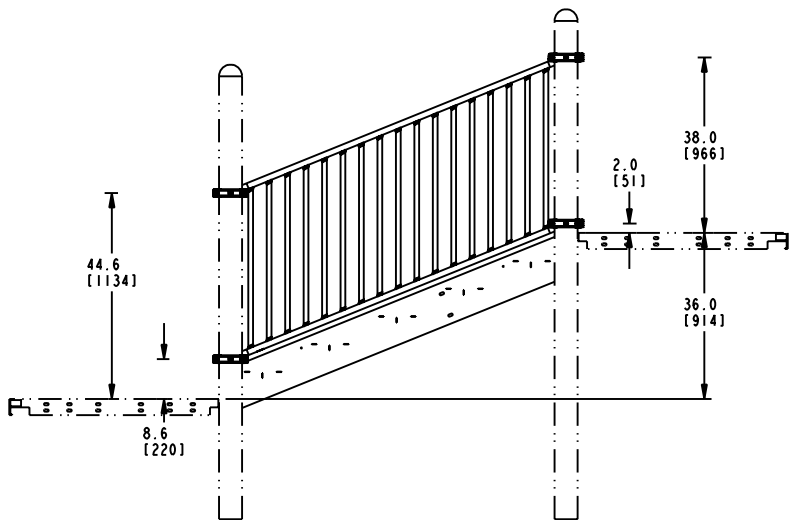
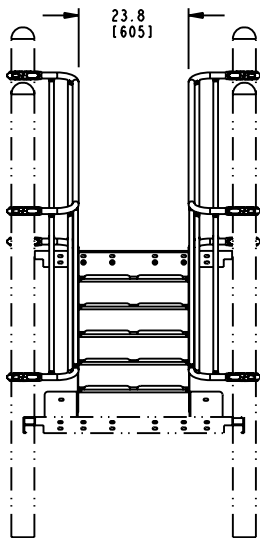
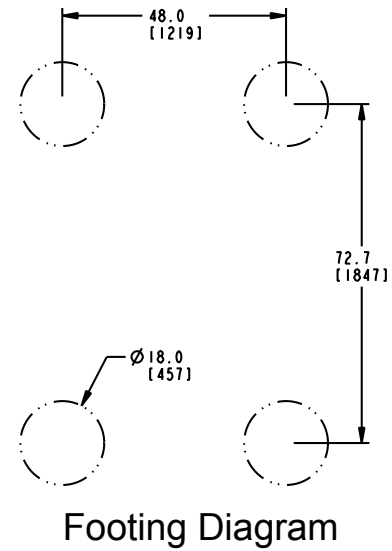
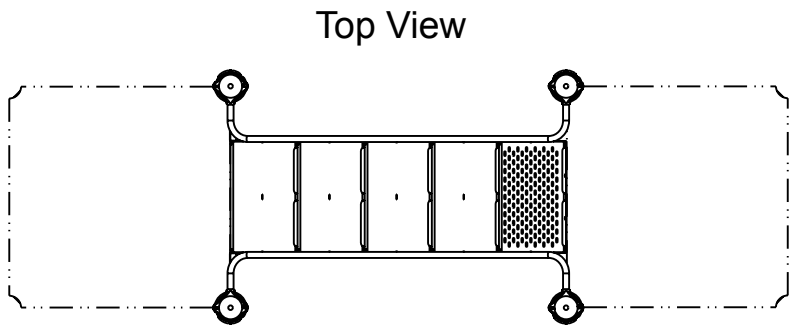
Height of the upper deck
minus 6" (152 mm)



Installation Instructions

KEY

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

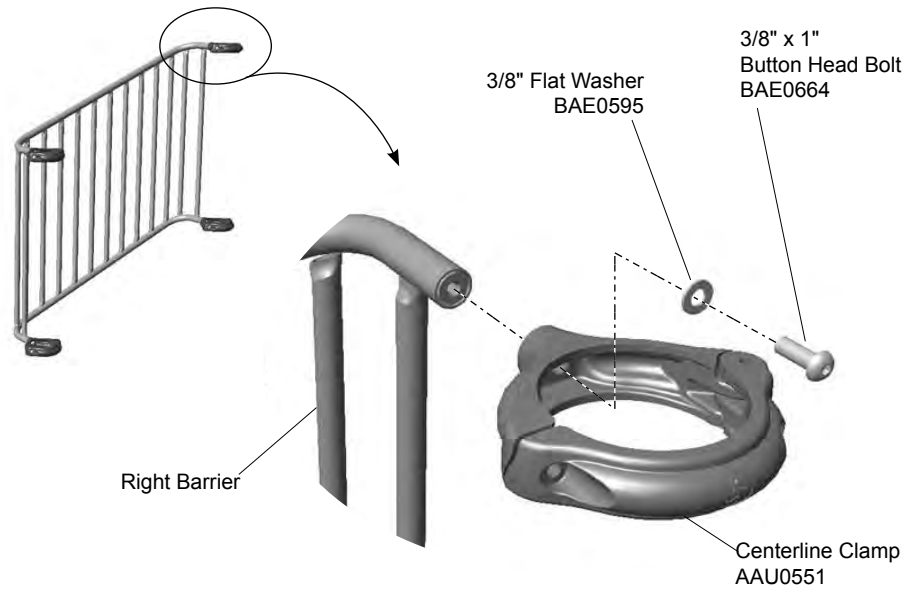


Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177

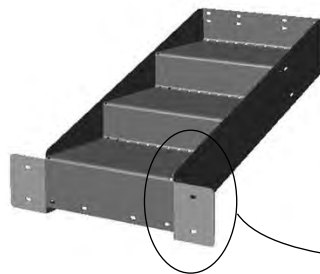
Installation Instructions

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

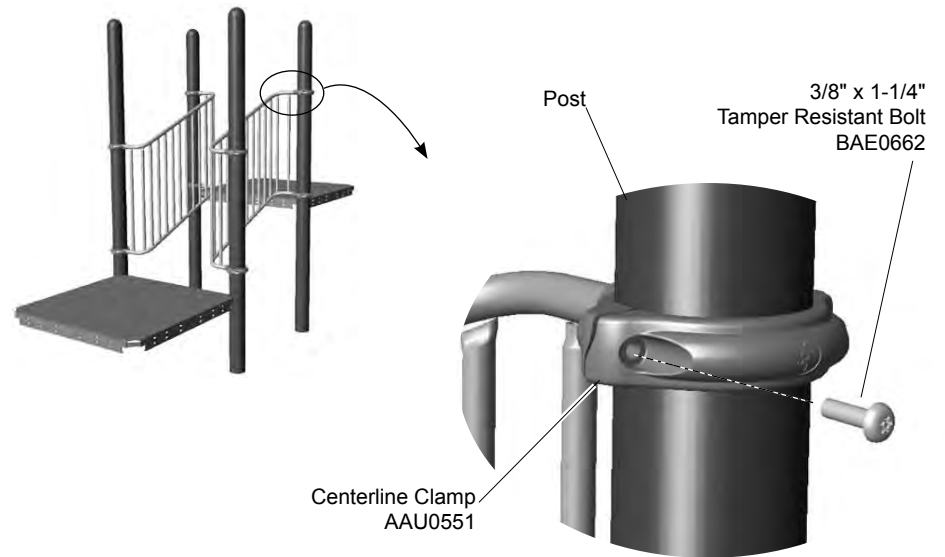


Detail A
Step 4

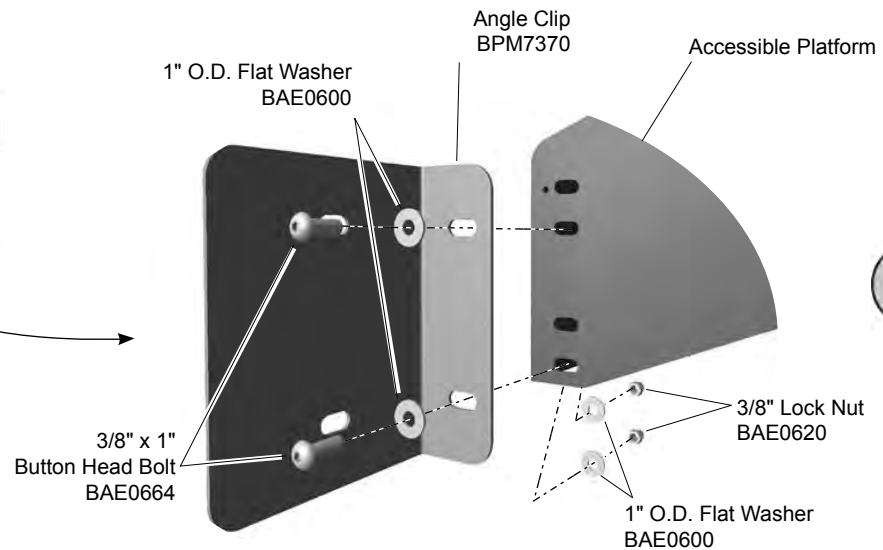
The front of angle clip should be even with the face of the platform



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299



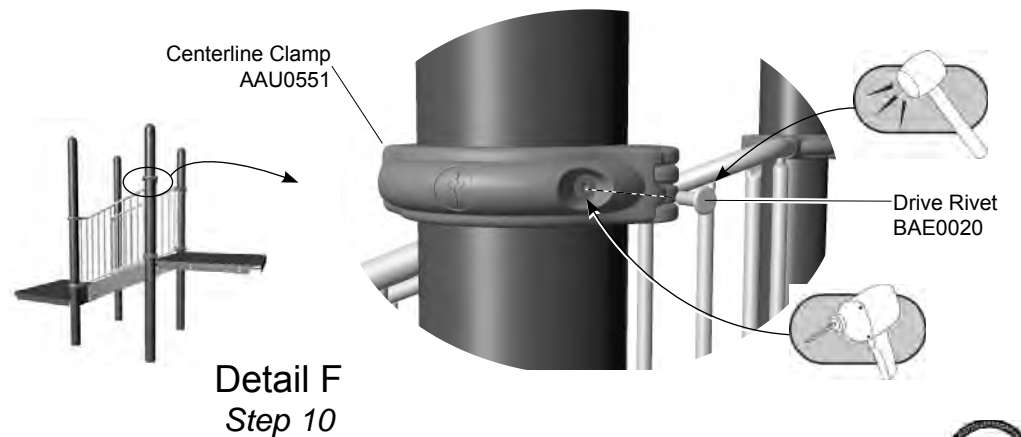
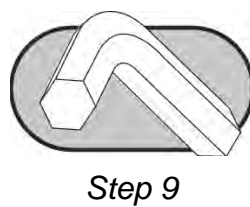
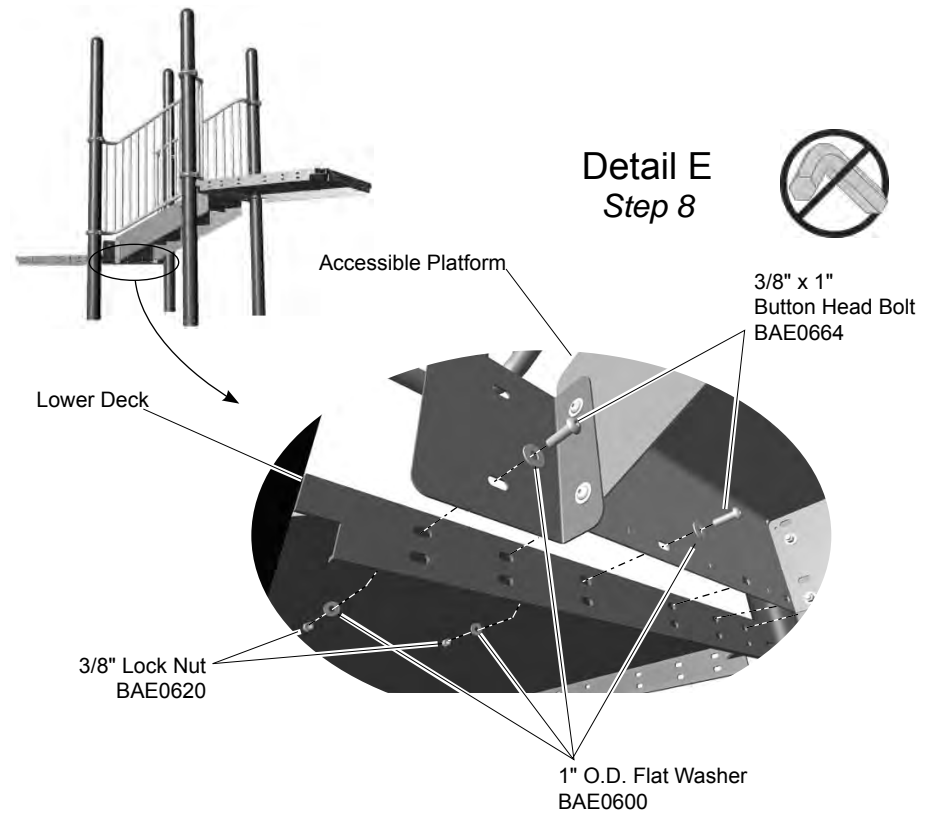
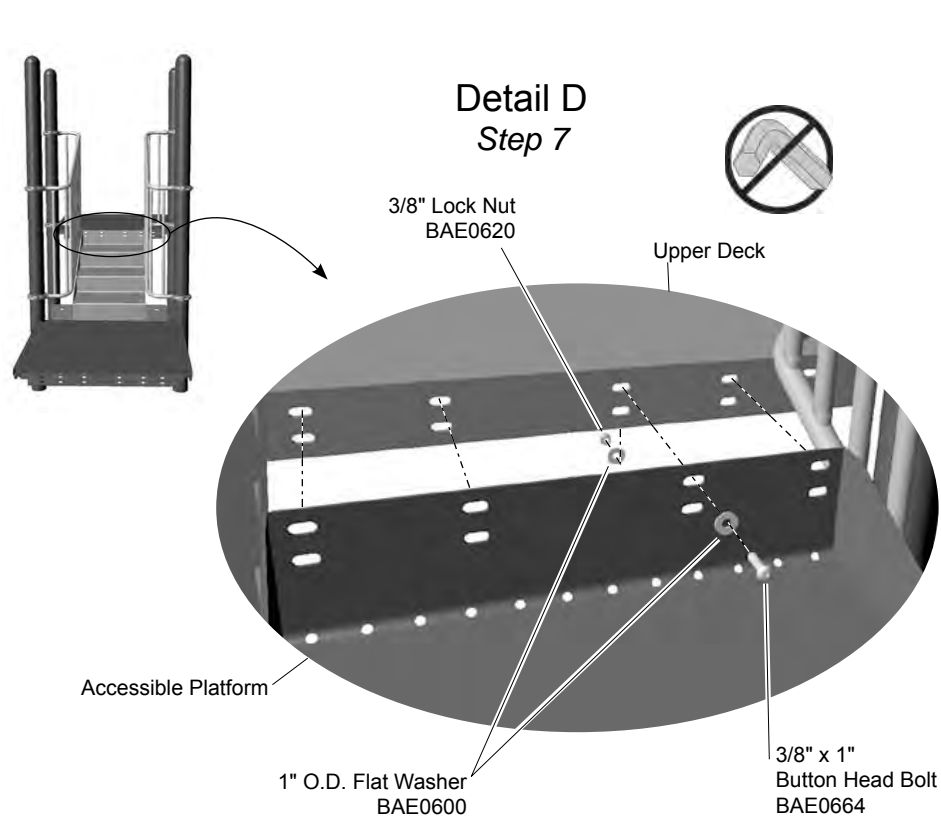
Detail B
Step 5



Detail C
Step 6



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

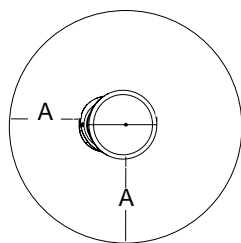
PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

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





Assembly View



Equipment Use Zone
 A - ASTM: 72 in. (1830 mm)
 A - CSA: 1800 mm
 A - EN: 2000 mm

Installation Instructions





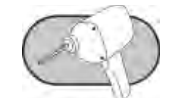


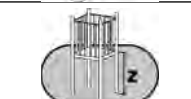
Playworld Systems® Model XX0065

Spincup

Installation Preparation

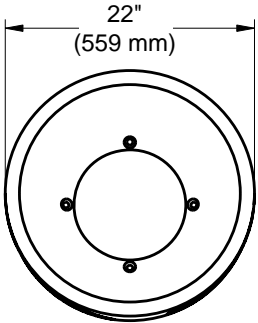
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 47.2 Lbs. (21.5 Kilos)
 Concrete Required: 0.06 cubic yard (0,04 cubic meters)
 Use Zone: Refer to the information below
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

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

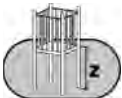
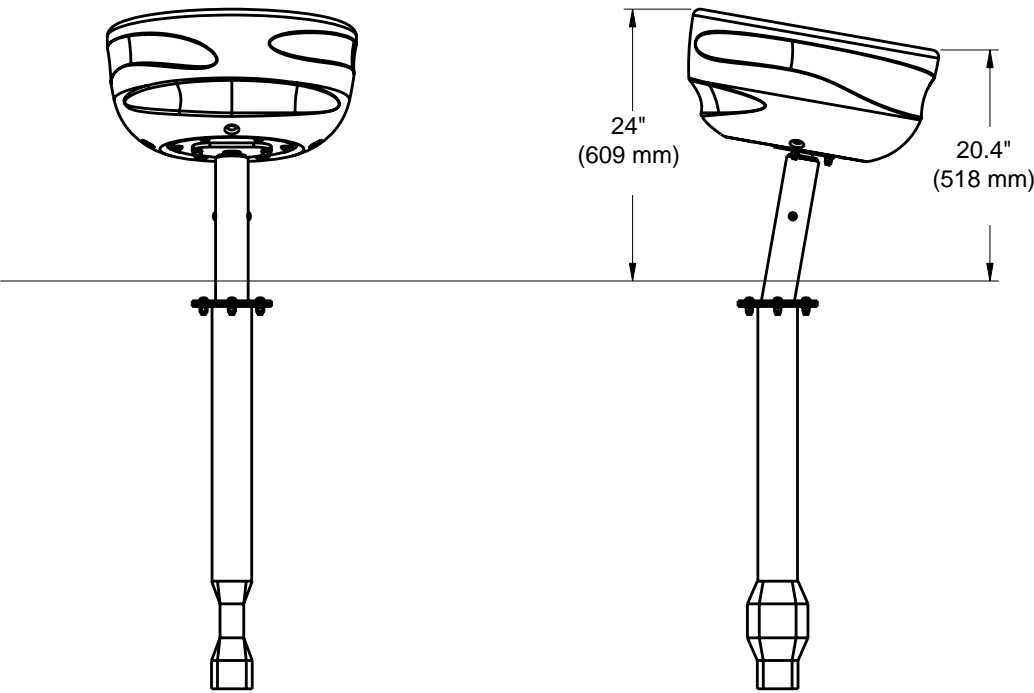
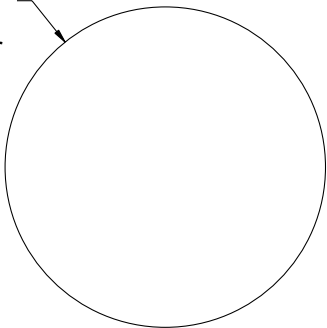
Installation Instructions

Top View



Footring Diagram

12.0"
(305 mm)
Diameter

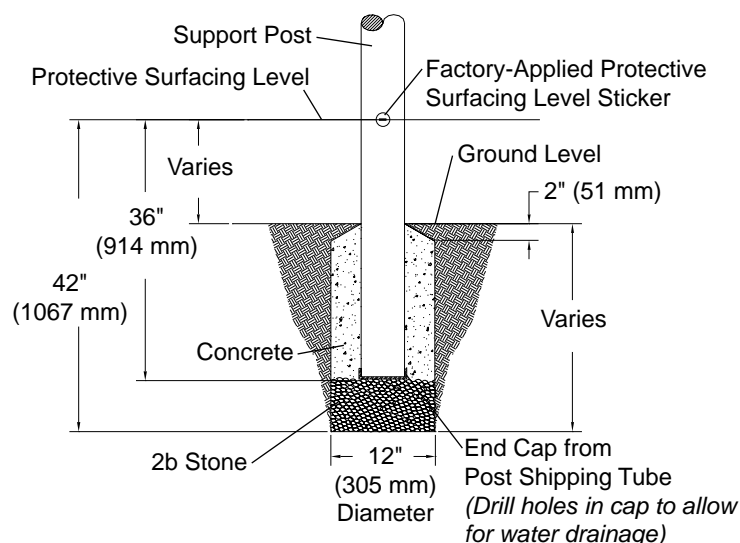


24" (609 mm)

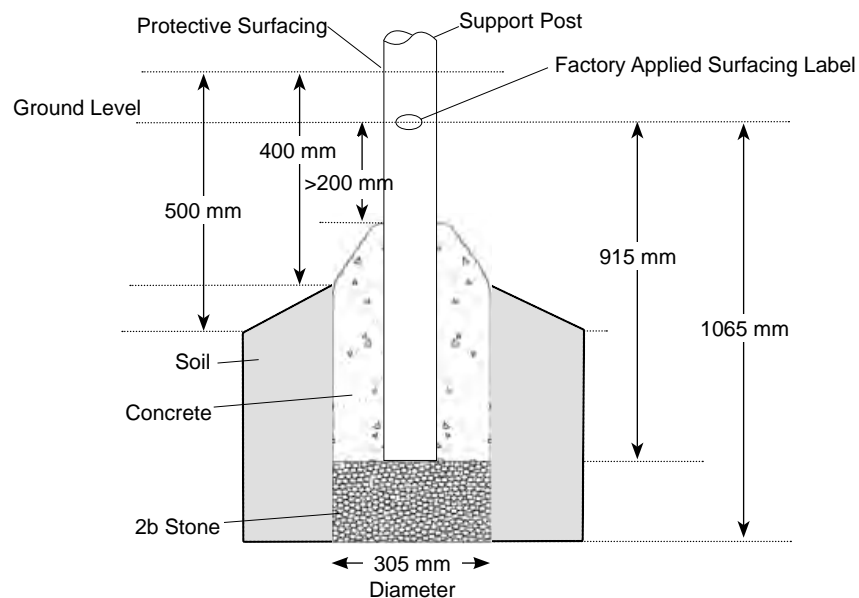
Elevation Views



Installation Instructions



Support Post Footing Detail (ASTM/CSA)



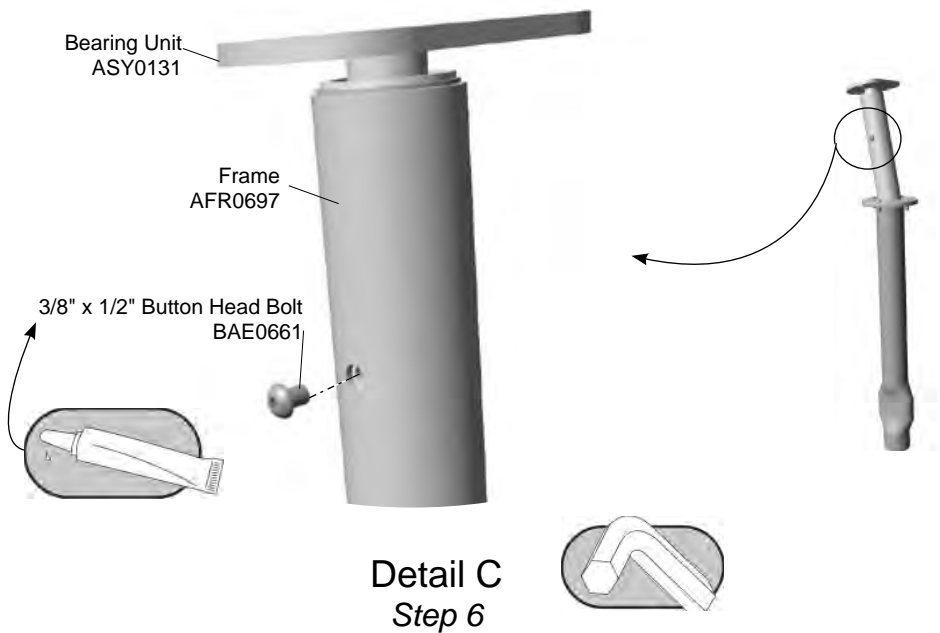
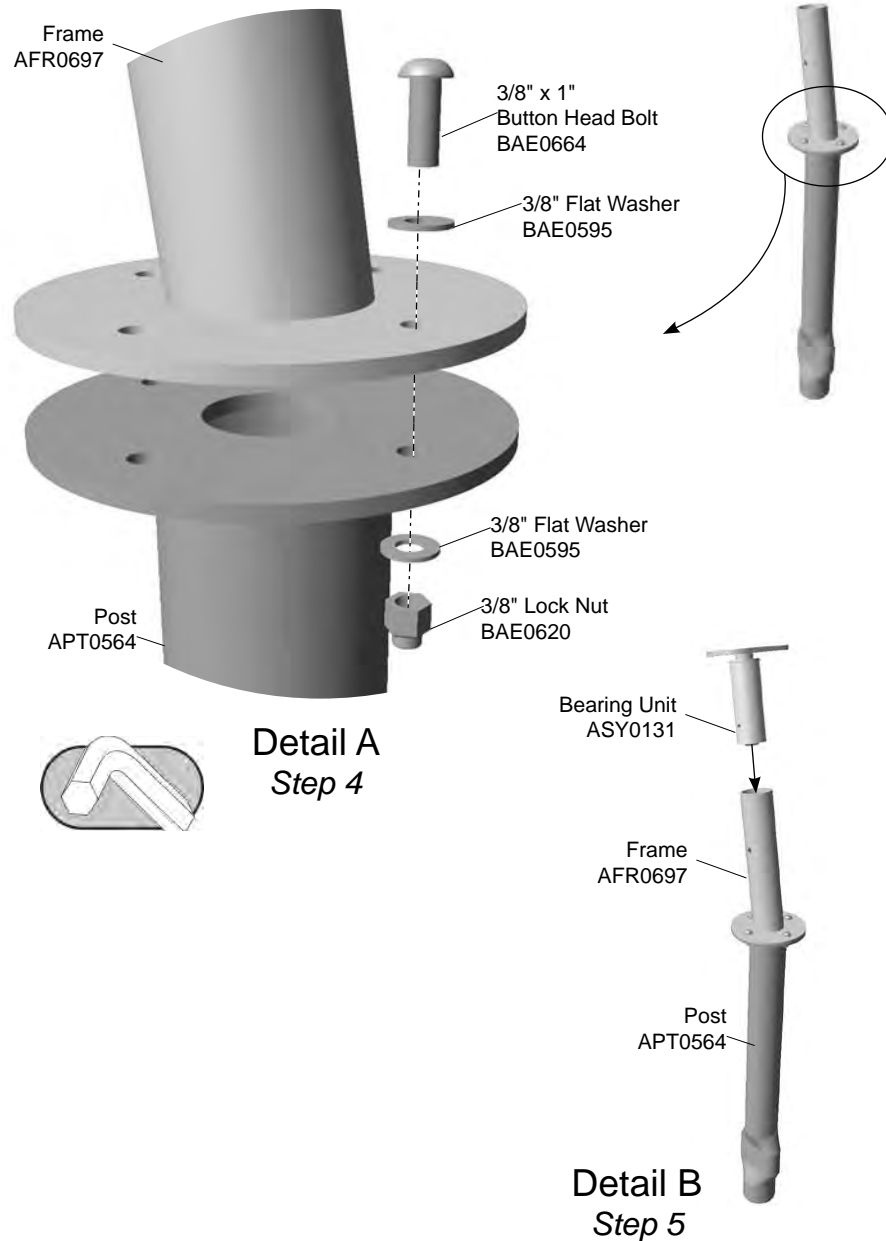
Footing Detail Support Post (EN)

FOOTING NOTES

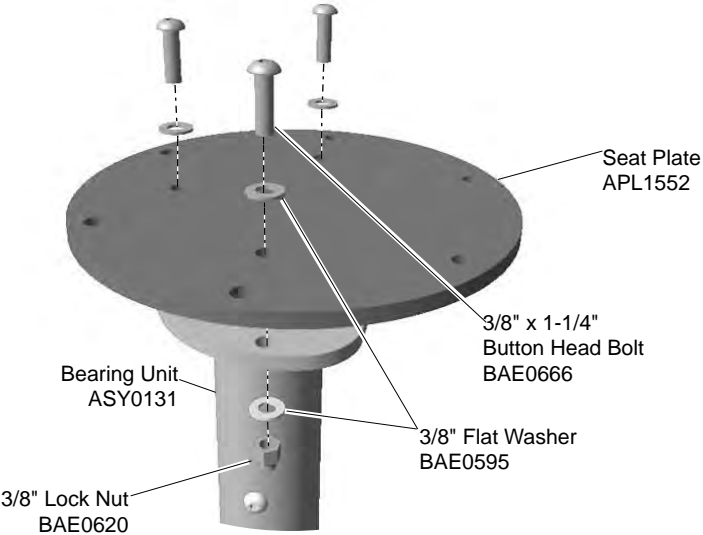
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- Component footing depth equals 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).
- Some support posts and component support legs may 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 or porous block.
- 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

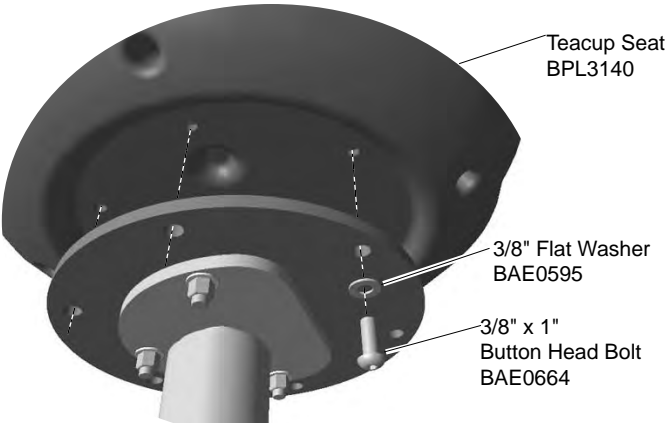
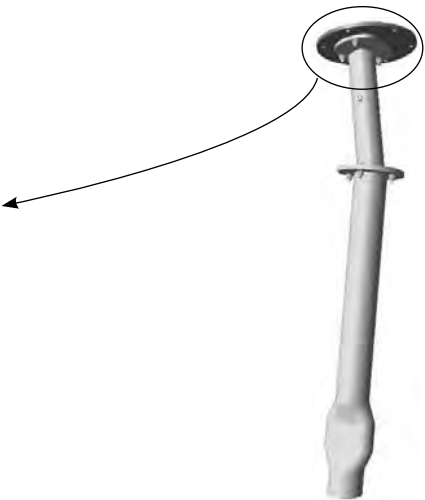
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions



Detail D
Step 7



Detail E
Step 8



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 footings as shown in the **Support Post Footing Details** as shown on **page 3** of this document.

Attach the frame to the post.

Step 4: Attach the frame to the post. See **Detail A**. Select the frame, the post, and the appropriate hardware. There are (4) four connections. Lower the frame onto the post and align the holes. Attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Attach the bearing unit to the frame.

Step 5: Lower the bearing unit into the frame. See **Detail B**. Select the bearing unit. Lower the bearing unit into the frame and align the holes. Insert as shown.

Step 6: Attach the bearing unit to the frame. See **Detail C**. Select the appropriate hardware. There are (2) two connections. 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 Spincup seat to the bearing unit.

Step 7: Attach the seat plate to the bearing unit. See **Detail D**. Select the seat plate and the appropriate hardware. There are (3) three connections. Place the seat plate on top of the bearing unit, align the holes in the bearing unit with the inner holes in the plate, and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 8: Attach the Spincup seat to the seat plate. See **Detail E**. Select the teacup seat and the appropriate hardware. There are (6) six connections. Lower the teacup seat onto the seat plate. Align the holes and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Final Details.

Step 9: 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 & Nuts - Snug tighten and then tighten an additional half turn.

Step 10: Apply the age appropriate labels to upper side corners at places shown on the **Elevation View**.

XX0065 - SPINCUP

PART NO.	DESCRIPTION	QTY.
AFR0697	FRAME - SIMPLE TEACUP ANGLED	1
APL1552	PLATE - 10.75" O.D. x .38"	1
APT0564	POST - 7.00" O.D. x 34.00"	1
ASY0131	ASSY - SIMPLE TEACUP	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	7
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BAE0922	TOOL - TT 45 L WRENCH	1
BPL3140	TEACUP SEAT	1
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

Playworld Systems®

Model XX0065

Spincup



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 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			
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 rotating play equipment that rotates around a vertical axis, the use zone should extend on all sides a minimum distance of 72 inches (1829 mm). This use zone may **not** be overlapped by the use zones of adjacent play equipment. The exemption is equipment where the diameter of the platform is less than 20 in. (510 mm) may overlap if the adjacent designated play surfaces of each structure are less than 30 in. (760 mm) above the protective surface. If adjacent designated play surfaces on either structure exceed a height of 30 in. (760 mm), the minimum distance between structures shall be 108 in. (2740 mm).
- **CSA compliance:** For rotating play equipment, the use zone should extend on all sides a minimum distance of 1800 mm. This use zone may **not** be overlapped by the use zones of adjacent play equipment. A no-encroachment zone is also required for play equipment over 500 mm in diameter that rotates around a vertical axis. In addition to the use zone measurement, this zone will extend an additional 1800 mm and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment.

- **EN compliance:** For rotating play equipment, the use zone should extend on all sides a minimum distance of 2000 mm. This use zone may **not** be overlapped by the use zones of adjacent play equipment. There must also be a head clearance of 2000 mm above the maximum height of the rotating 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.

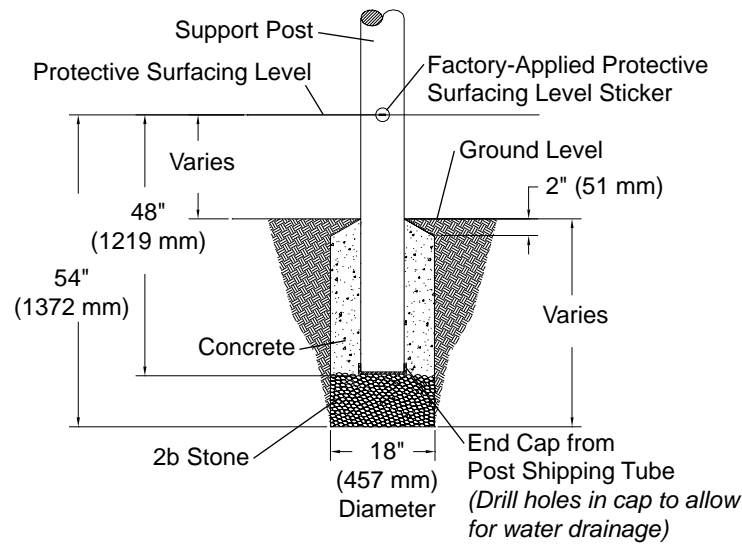
Maintenance

- 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.

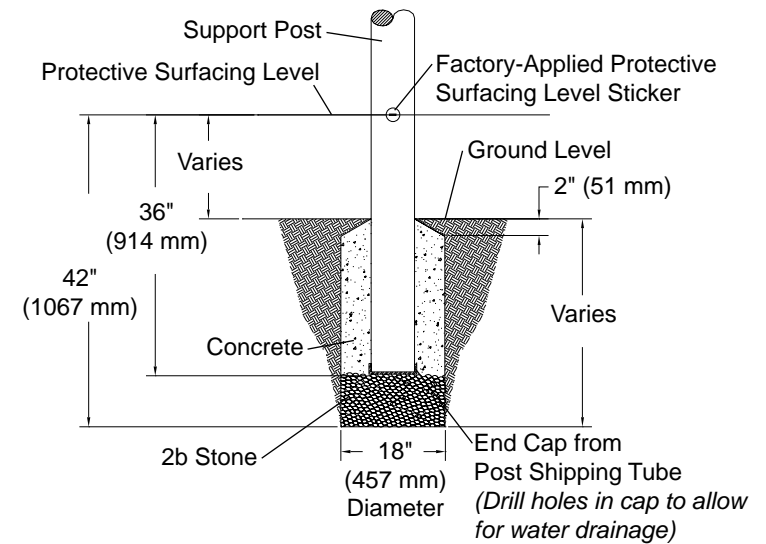
Supervision Guidelines

- 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.

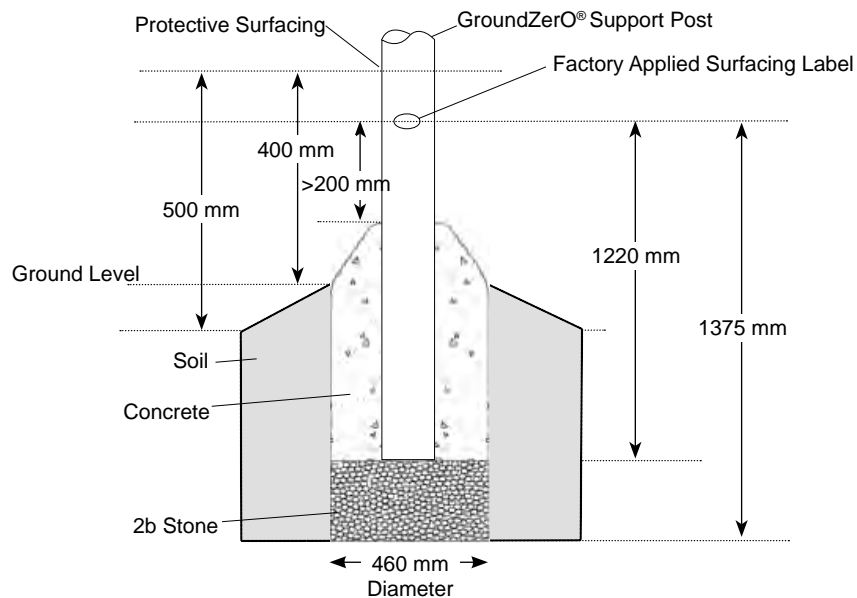
Footings Details (in ground)



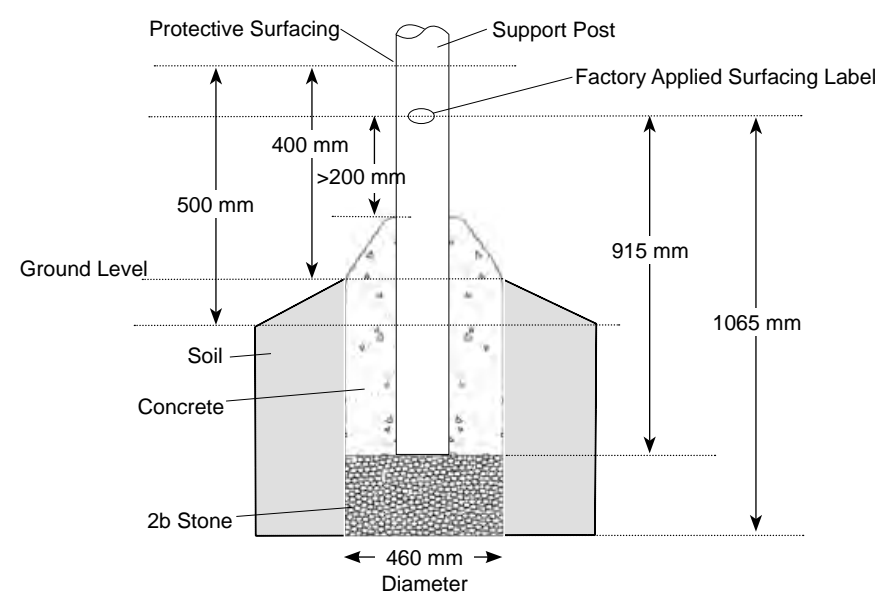
GroundZero® Support Post Footing Detail ASTM/CSA



Support Post Footing Detail (ASTM/CSA)



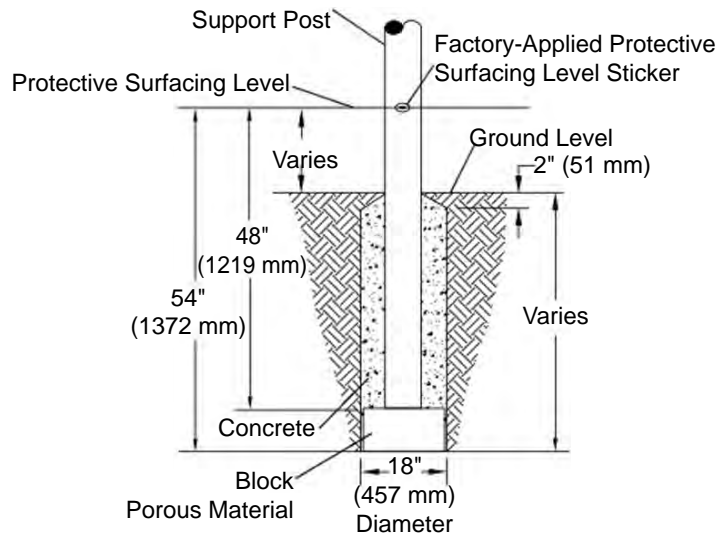
Footing Detail - GroundZero® Support Post (EN)



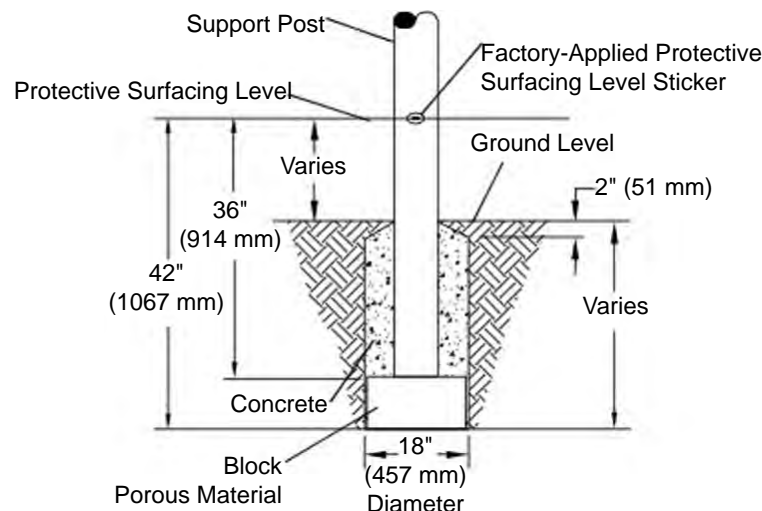
Footing Detail - Support Post (EN)

Footings Details (in ground)

Footings Notes



GroundZero® Support Post Footing Detail ASTM/CSA
Block Option

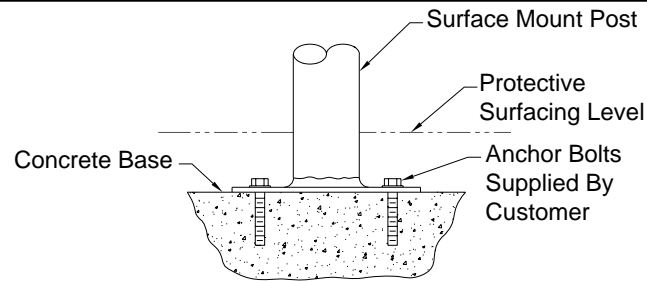


Support Post Footing Detail (ASTM/CSA)
Block Option

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® support post footing depth equals 54 in. (1372 mm) minus the depth of the protective surfacing material. The posts are 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).
- 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.

Footling Detail (surface mount)



Surface Mount Footing Detail

Footling Notes

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

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

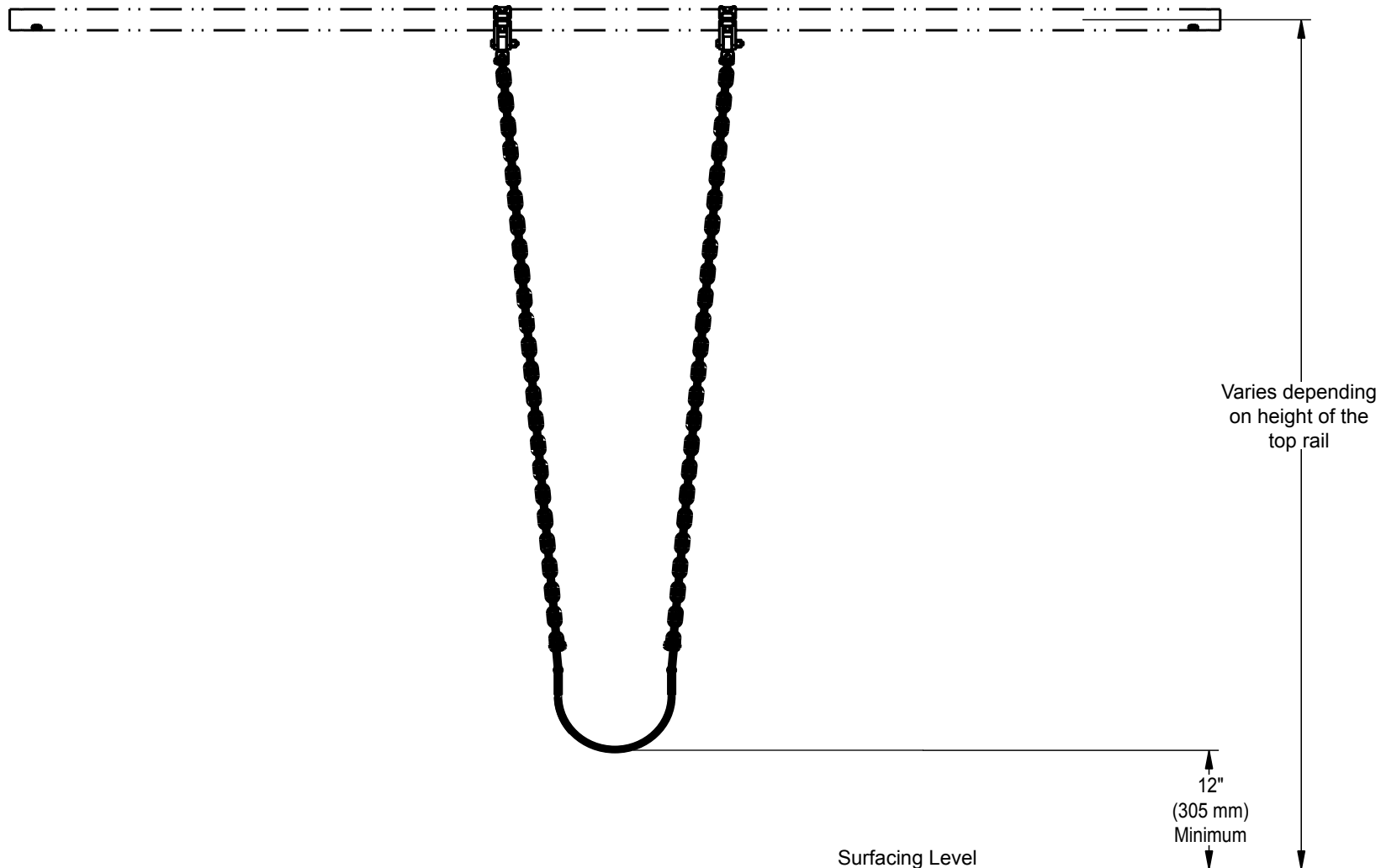
Installation Preparation

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

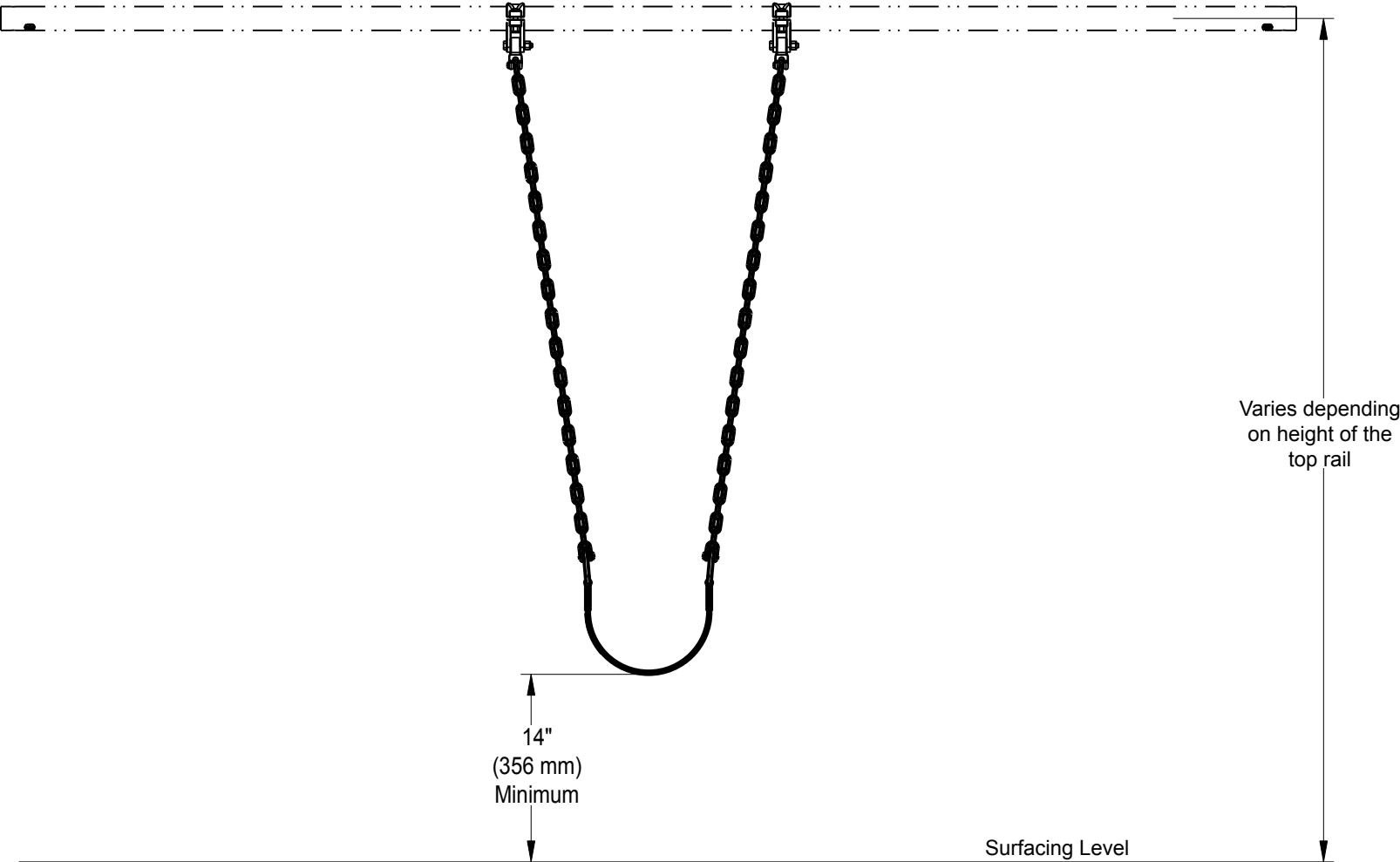
Installation Instructions



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



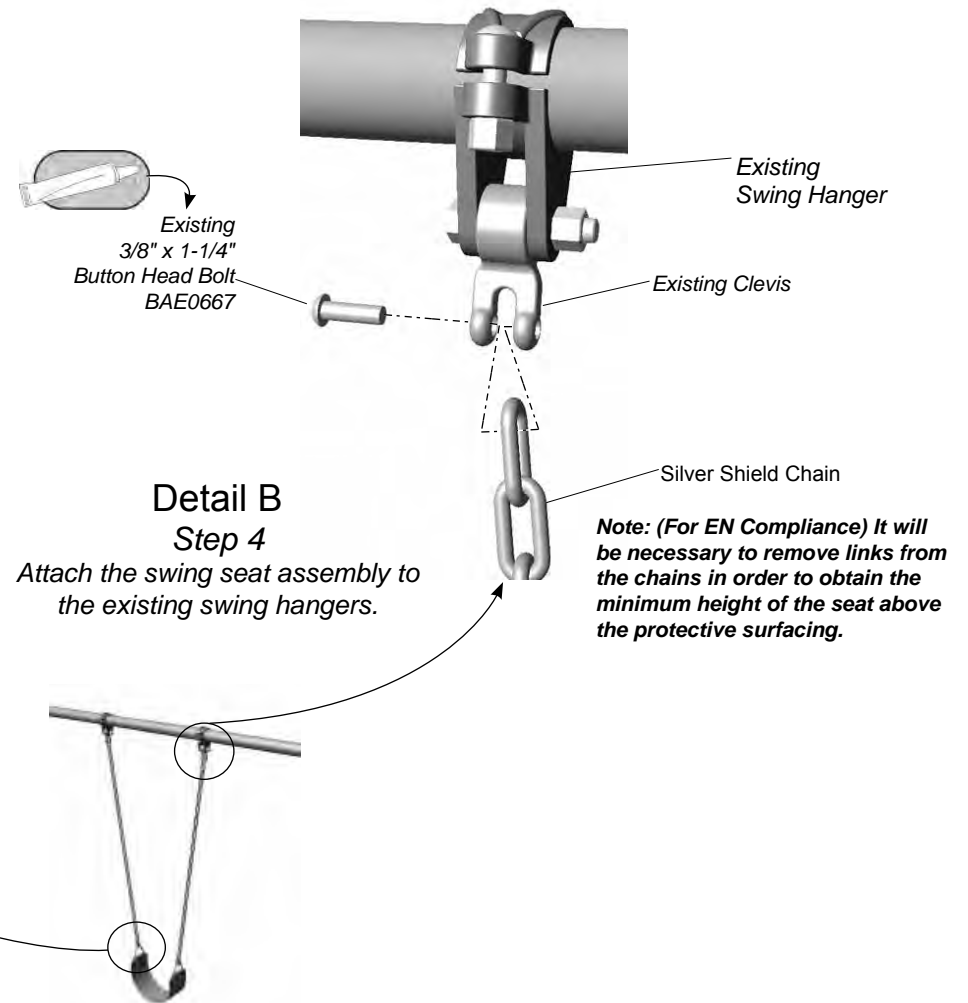
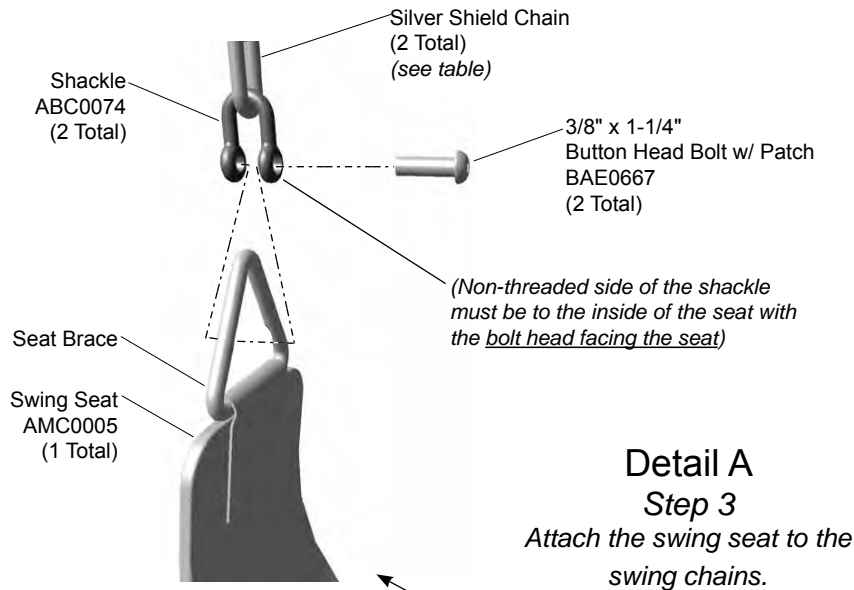
Elevation View
(EN)

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



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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



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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 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.

Model Number	Top Rail Height
ZZXX0325	7 ft. (2134 mm)
ZZXX0265	8 ft. (2440 mm)
ZZXX0266	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

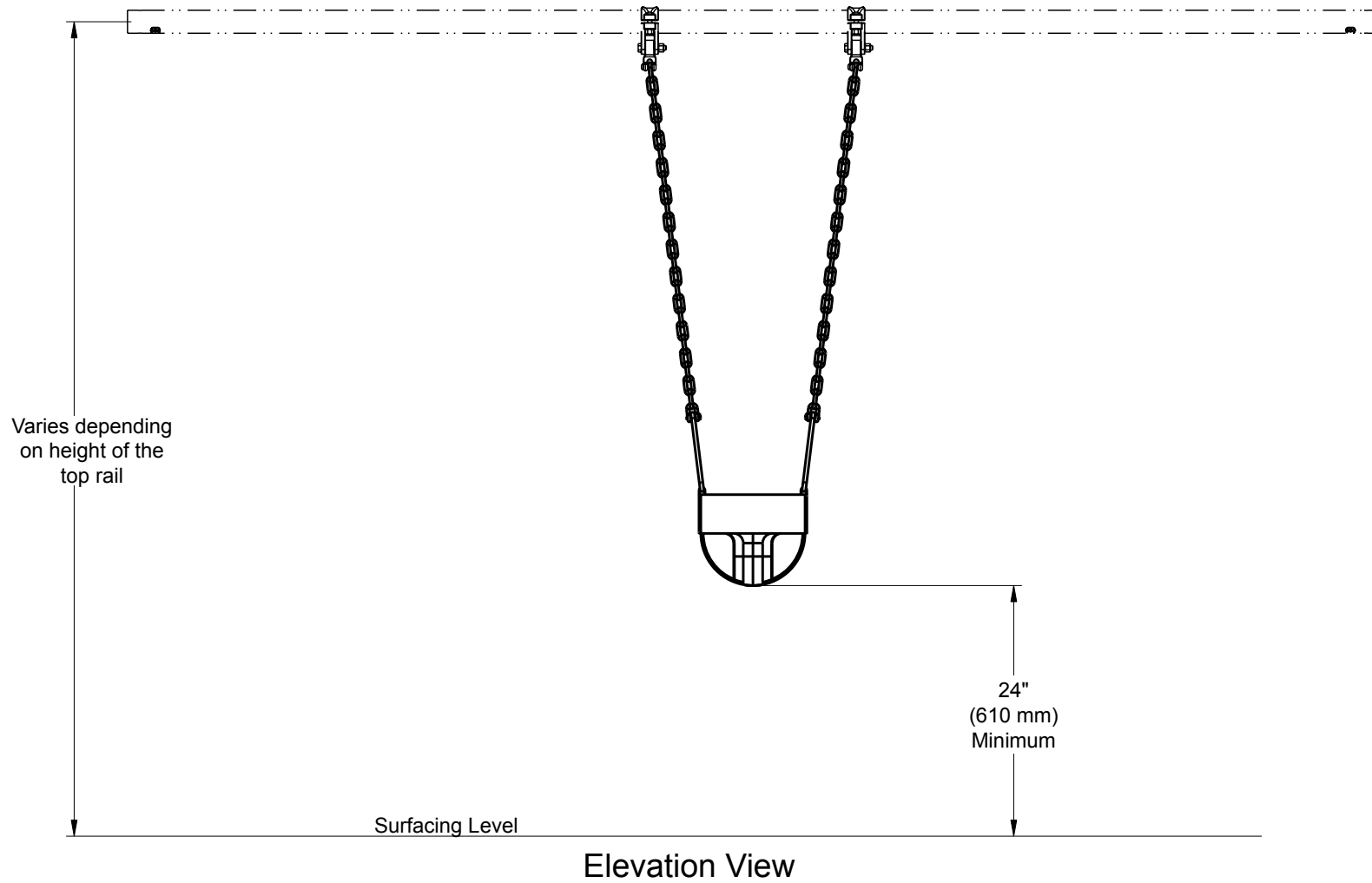
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone:..... Refer to the swing frame instructions
 User Group:..... Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

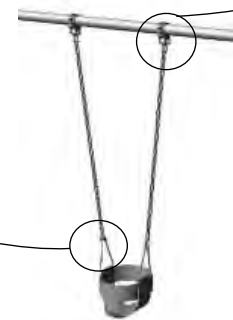
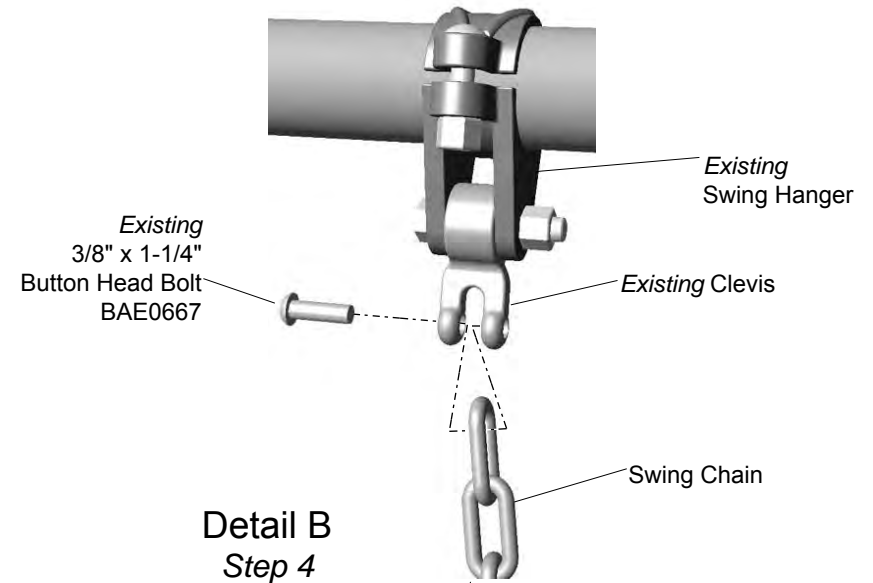
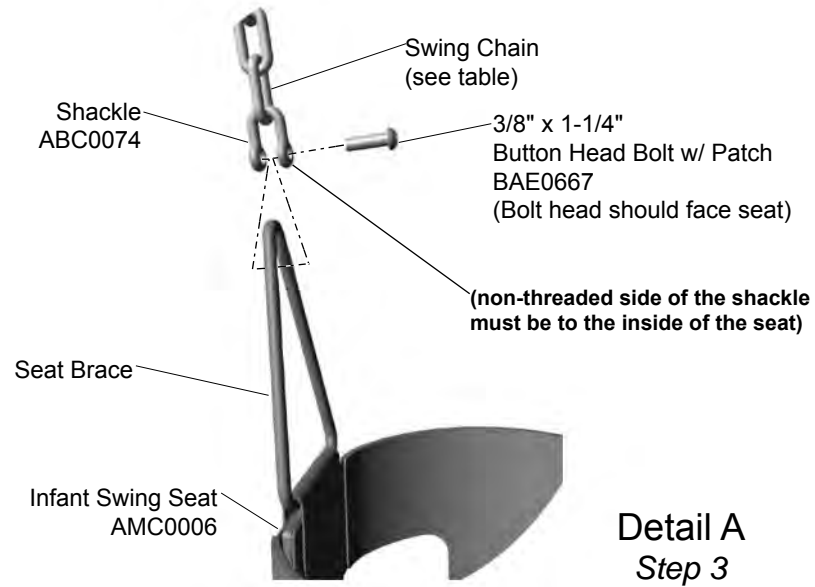
Installation Instructions



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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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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Inspection Form

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- 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

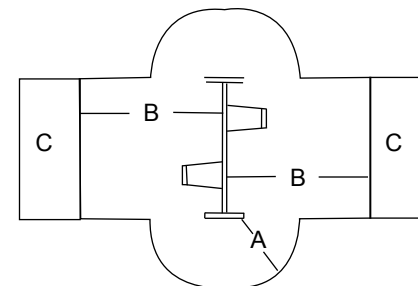
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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

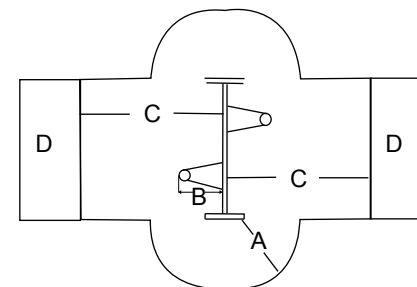
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- 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

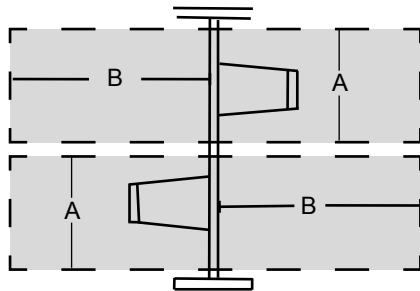
(EN)

- 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 absorbcy. 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.

Installation Instructions

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.

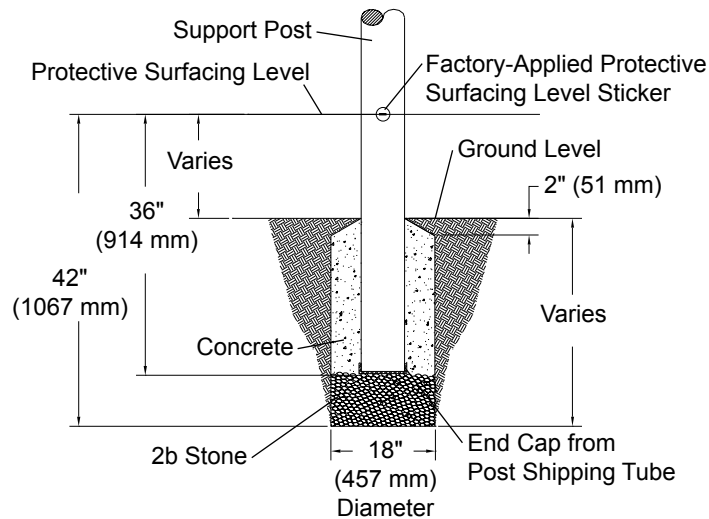
Maintenance

- 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.

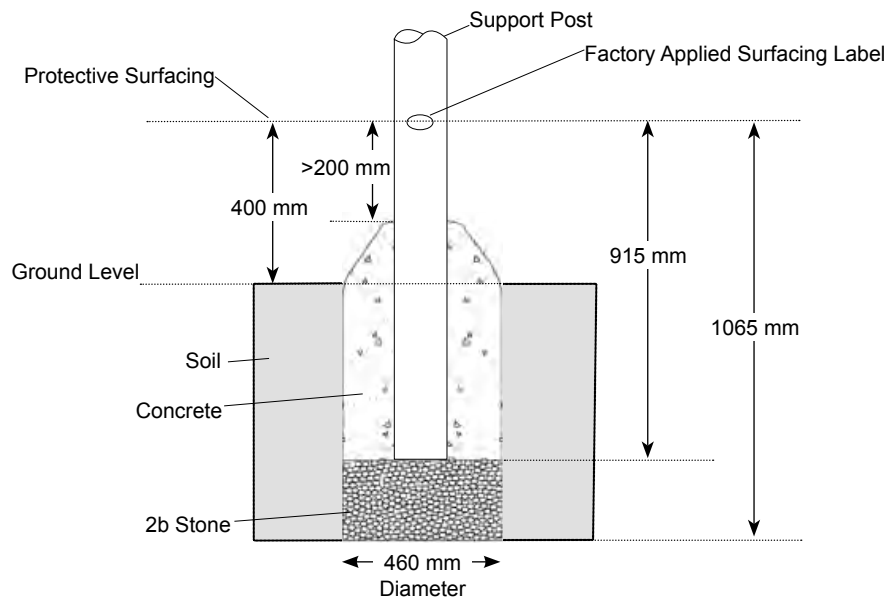
Supervision Guidelines

- 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



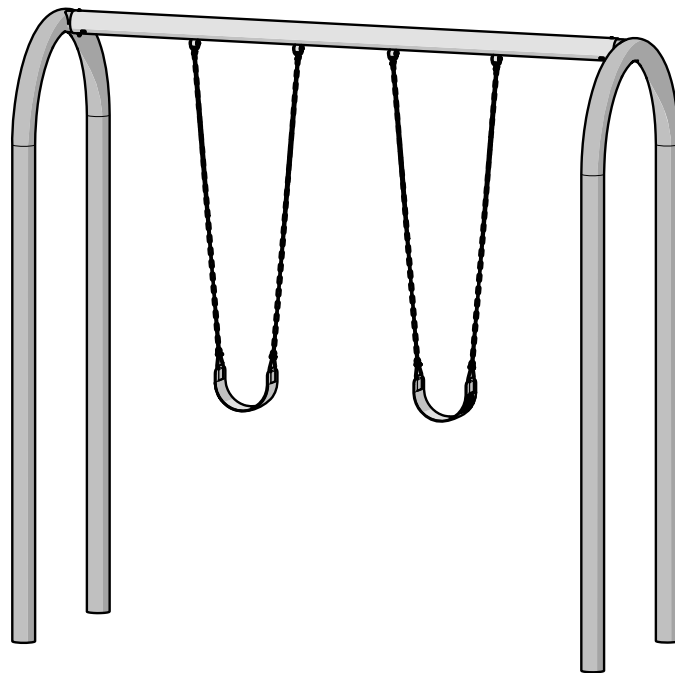
Support Post Footing Detail (ASTM/CSA)



Footing Detail 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).
- 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

Installation Instructions








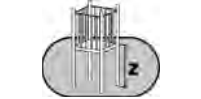
Playworld Systems® Model ZZXX0833

5 in. Outside Diameter
2-Unit Aluminum Arch Swing
with 8 ft Top Rail

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone:..... Refer to the information on pages 1 & 2
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

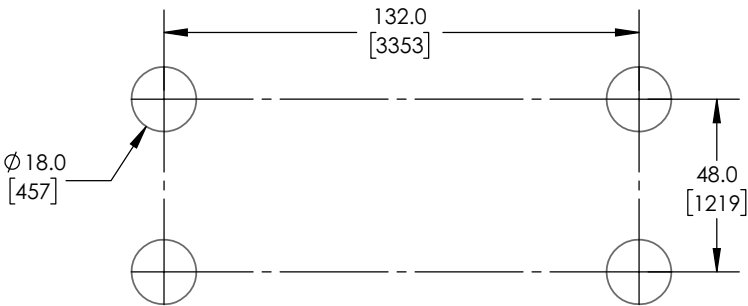
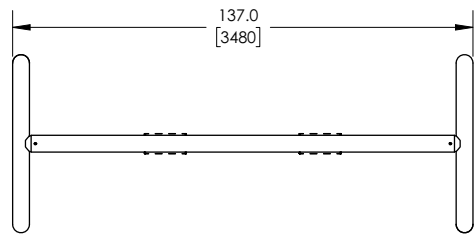
ICON KEY

	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

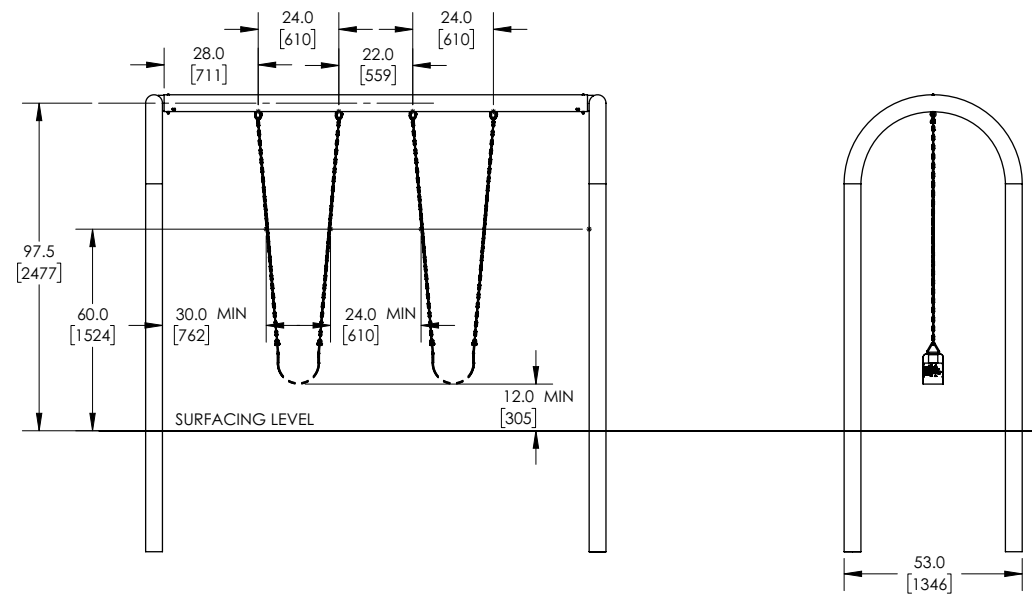
Installation Instructions

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

Top View



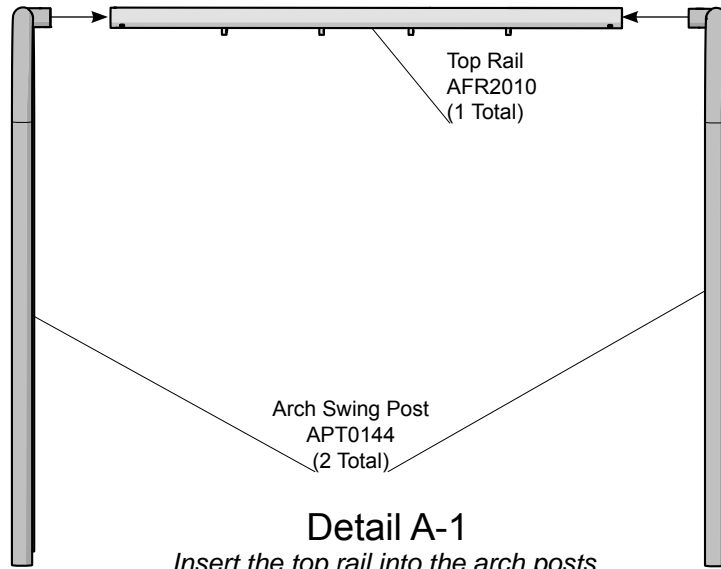
Footing Diagram



Elevation Views

Installation Instructions

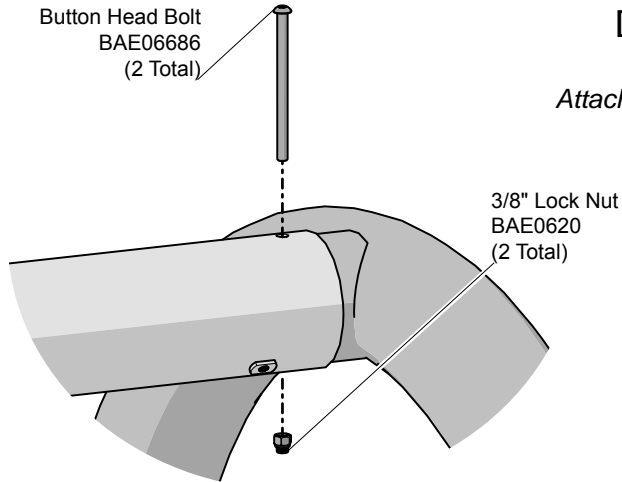
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A-1

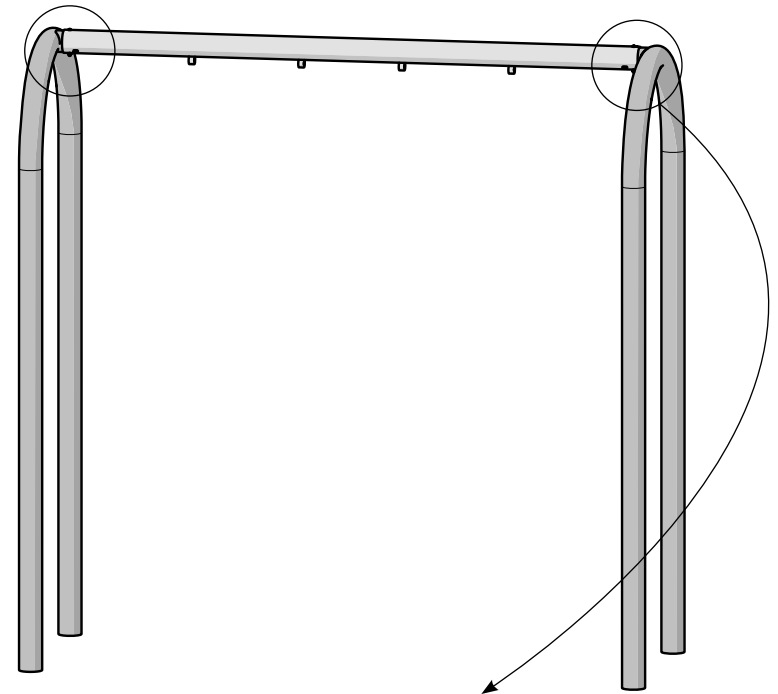
Insert the top rail into the arch posts.

3/8" x 5-1/2"
Button Head Bolt
BAE06686
(2 Total)



Detail A-2

Attach the top rail to the arch posts.

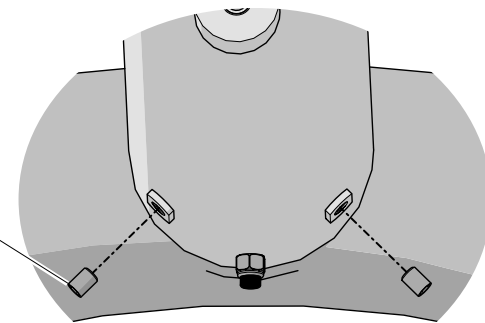


Details A-1, A-2 and A-3

Step 4

Attach the top rail to the arch support posts.

3/8" x 1/2"
Set Screw
BAE0630
(4 Total)

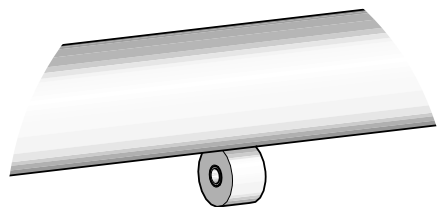


Detail A-3

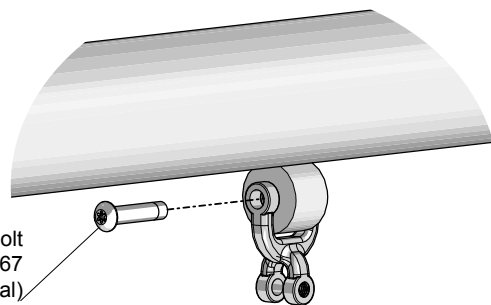
(Underneath View)

Secure the top rail to the arch posts.

Installation Instructions



Swing Clevis
984429
(4 Total)



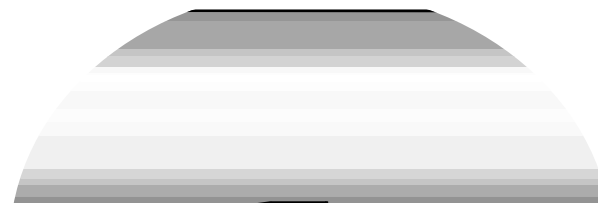
7/16" x 1.5" Button Head Bolt
104467
(4 Total)

***Insert through the non-threaded
side of the clevis first.



Detail B Step 6

Attach the swing clevises to the top rail.



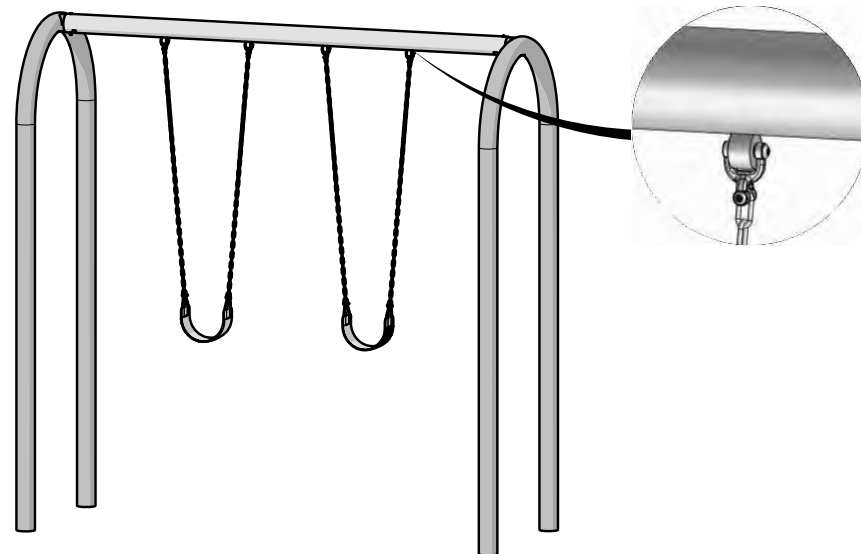
***Insert through the non-threaded
side of the clevis first.

3/8" x 1-1/4"
Button Head Bolt
w/ patch
BAE0667
(4 Total)



Detail C Step 7

Thread the bolt into the clevis for
attachment to a swing seat chain.



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** on page 4 of this installation document.

Step 4: Attach the top rail to the arch support posts. See **Details A-1, A-2 and A-3**. Place the top rail onto the arch stubs and align the holes. Attach the top rail as shown.

Step 5: With adequate manpower, place the swing frame assembly into previously excavated 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. Block and brace for concrete. Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the Footing Detail. Allow concrete to harden for 72 hours before proceeding with **Step 6**.

Step 6: Attach the swing clevises to the top rail. See **Detail B**. Position a swing clevis over the tab on the top rail, and align the holes.

Step 7: Thread bolt into the swing clevis. See **Detail C**. 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 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.

Set Screws - Snug tighten and tighten an additional full turn.

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.

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Apply the Surfacing Warning labels to upper side corners. Labels are to be plainly visible according to current playground equipment guidelines.

XX0833 - 5 in. O.D. ALUMINUM ARCH SWING WITH 8 ft. TOP RAIL

PART NO.	DESCRIPTION	QTY.
104467	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	4
984429	CLEVIS - SWING HANGER	4
AFR2010	SWING TOP RAIL - 5.00" O.D. x 126.00"	1
APT0144	POST - 5" O.D. x 133-1/2" ALUMINUM ARCH SUPPORT	2
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x .50" SOCKET SET SS	4
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/NYLON PATCH	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0922	TOOL - TT 45 L WRENCH	1
BAE0905	WRENCH - 3/16" HEX KEY	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	1



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

- 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.
- 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.
- 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

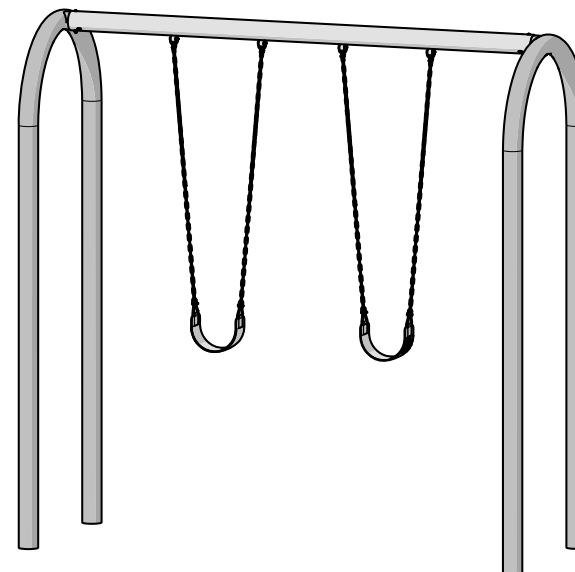
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®

Model XX0833

5 in. Outside Diameter
2-Unit Aluminum Arch Swing
with 8 ft Top Rail





PLAYWORLD
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.playworld.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 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: ___ / ___ / ___



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

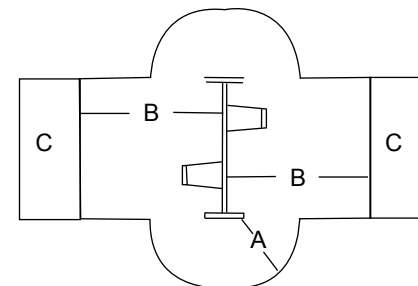
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be 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

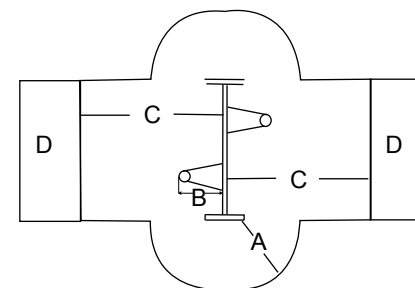
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- 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

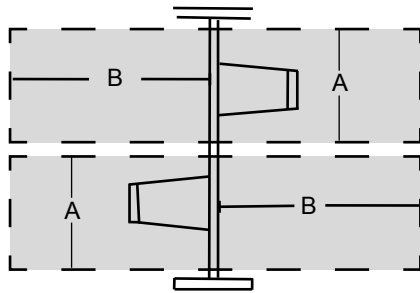
(EN)

- 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 absorbcy. 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.

Installation Instructions

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.

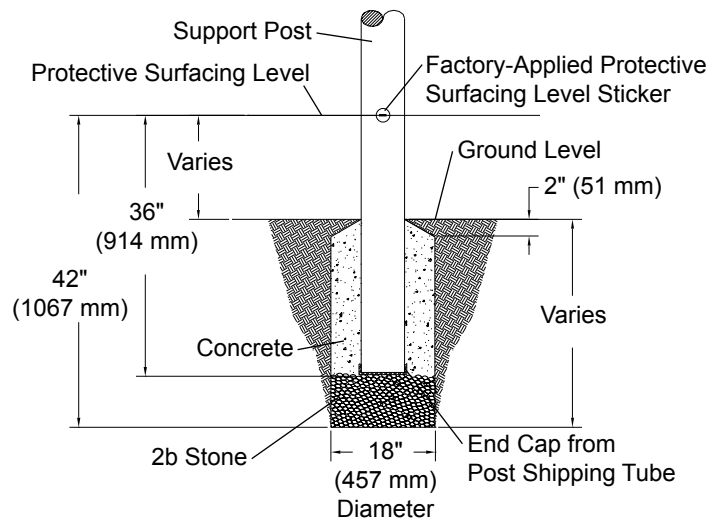
Maintenance

- 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.

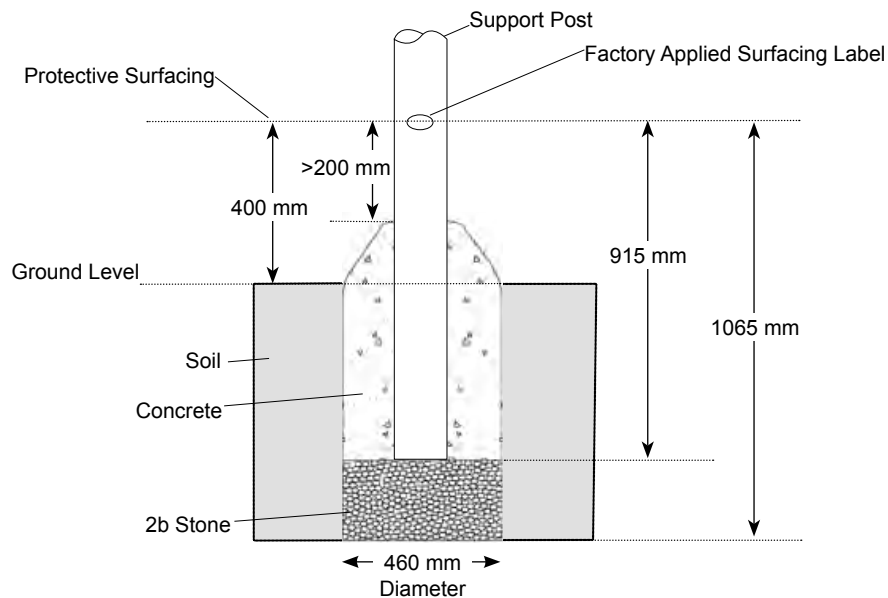
Supervision Guidelines

- 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



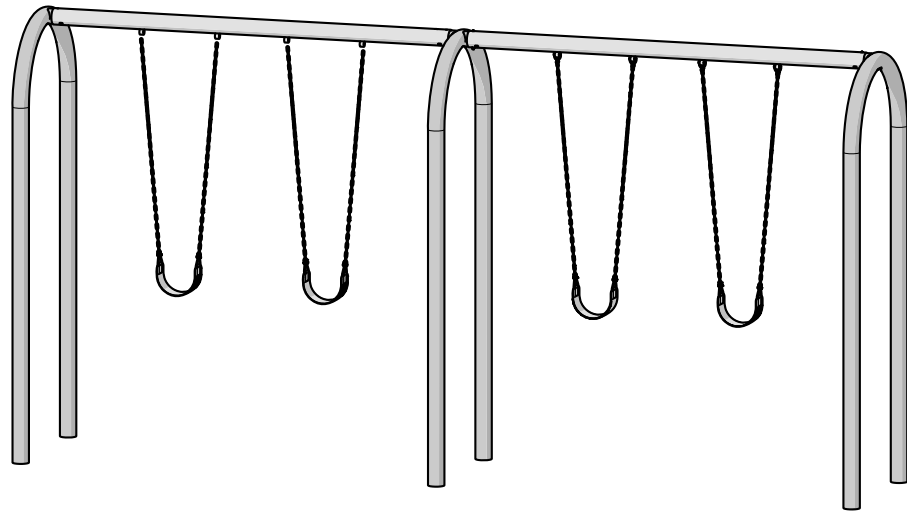
Support Post Footing Detail (ASTM/CSA)



Footing Detail 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).
- 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

Installation Instructions

Playworld Systems® Model ZZXX0834

5 in. Outside Diameter

Aluminum Arch Swing

2-Unit Bay Addition

Installation Preparation

Recommended Crew: Three (3) adults








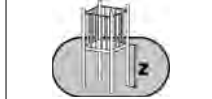
Installation Time: 2 man-hours

Concrete Required: 0.24 cubic yard (0,18 cubic meters)

Use Zone:..... Refer to the information on pages 1 & 2

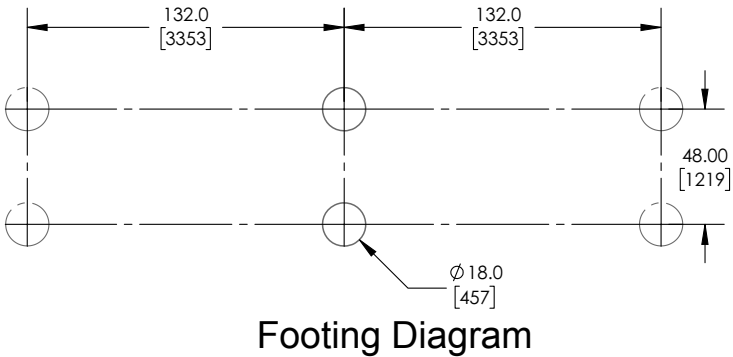
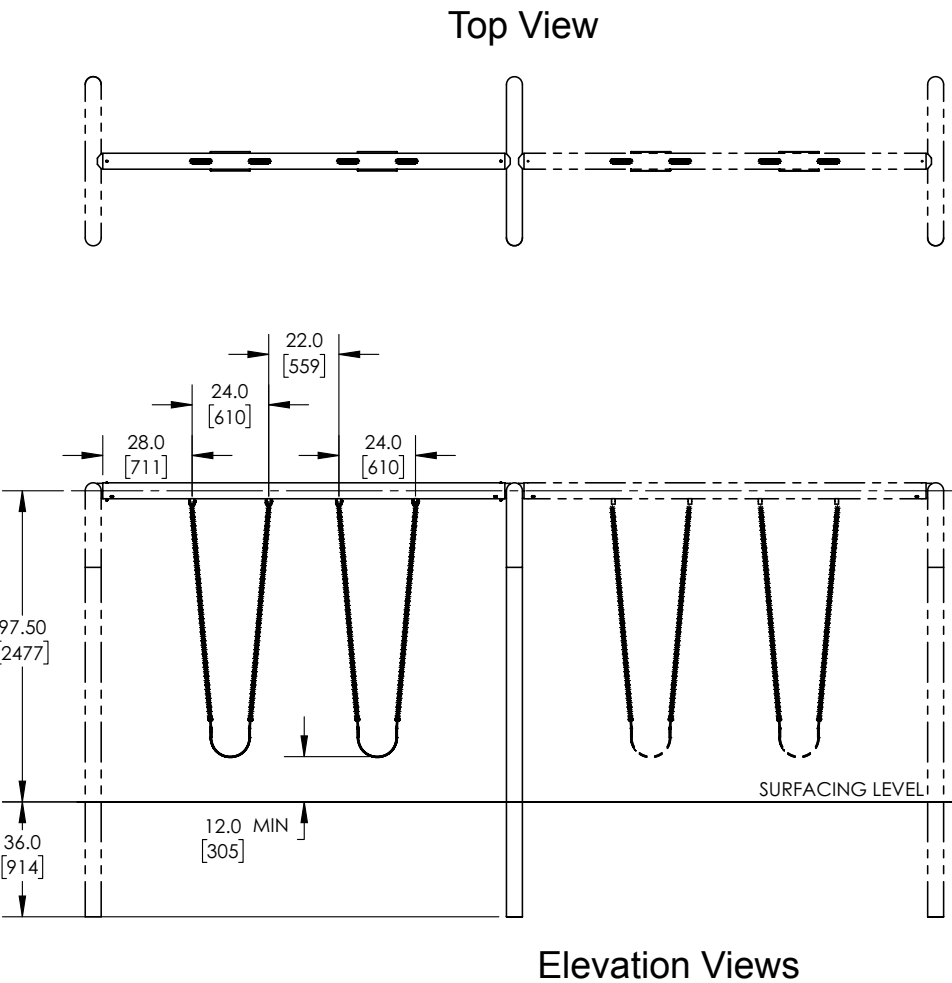
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

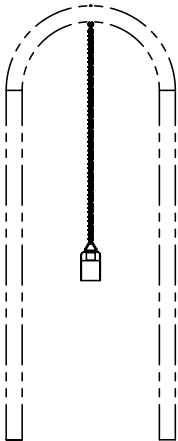
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

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

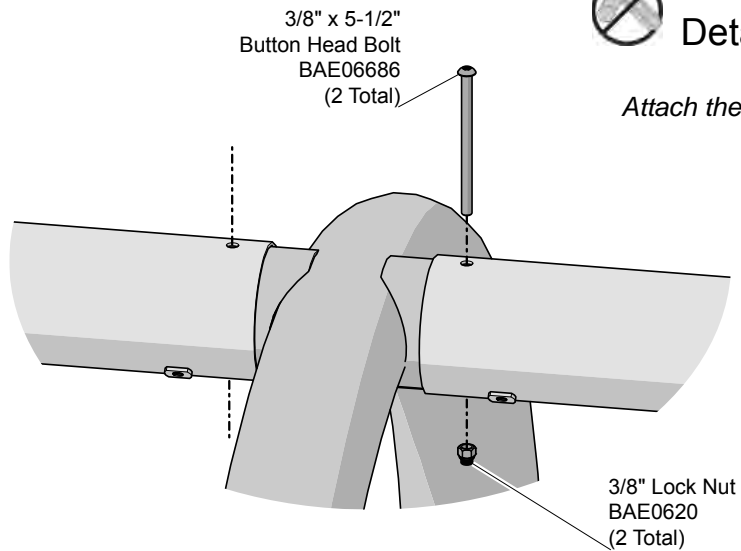
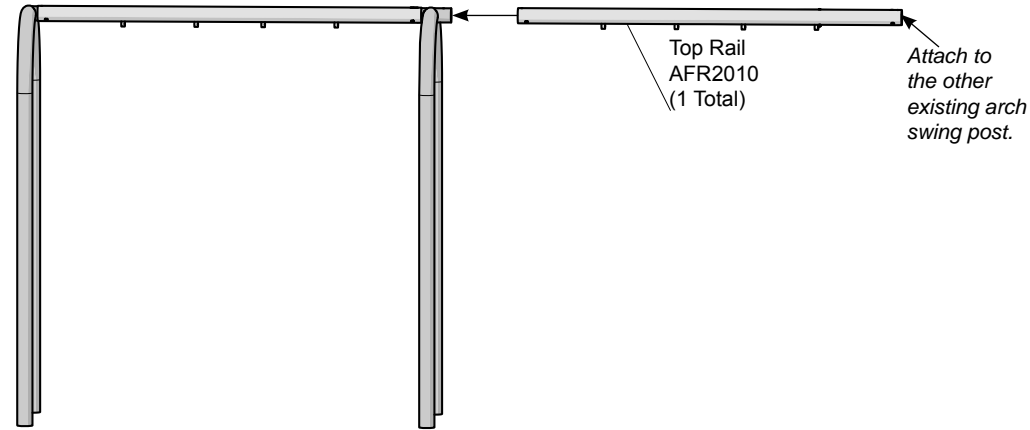
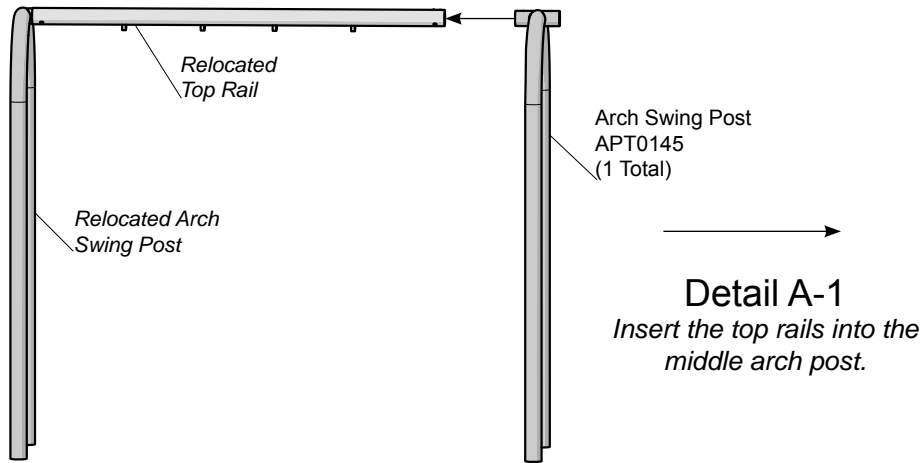


- Notes:**
1. Seat assemblies are sold separately.
 2. Existing arch post is replaced by middle arch support and moved to the end of the bay section.




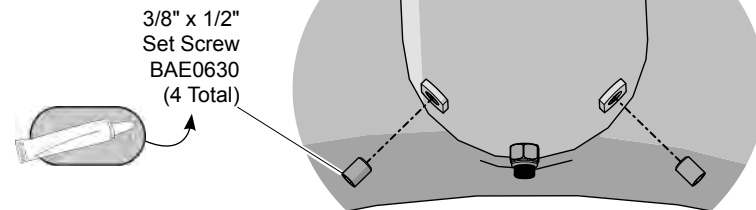
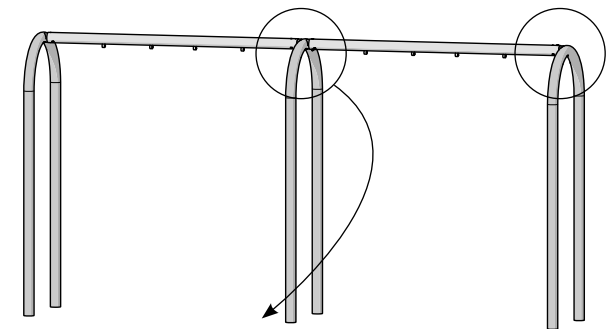
Installation Instructions

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



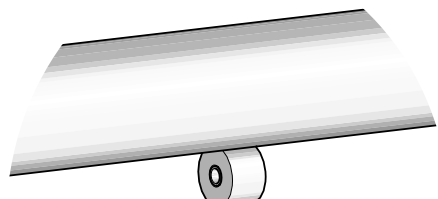
Detail A-2
Attach the top rails to the middle arch post.

 **Details A-1, A-2 and A-3**
Step 5
Attach the top rail to the arch support posts.

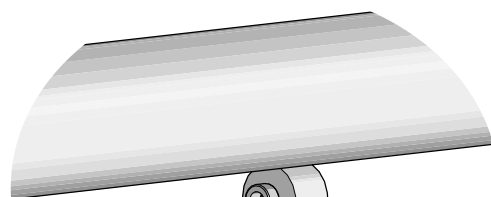


Detail A-3
(Underneath View)
Secure the top rails to the arch posts.

Installation Instructions



Swing Clevis
984429
(4 Total)



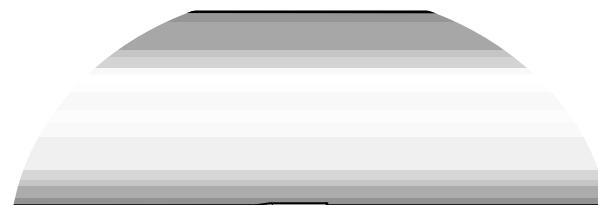
7/16" x 1.5" Button Head Bolt
104467
(4 Total)

***Insert through the non-threaded
side of the clevis first.



Detail B
Step 8

Attach the swing clevises to the top rail.



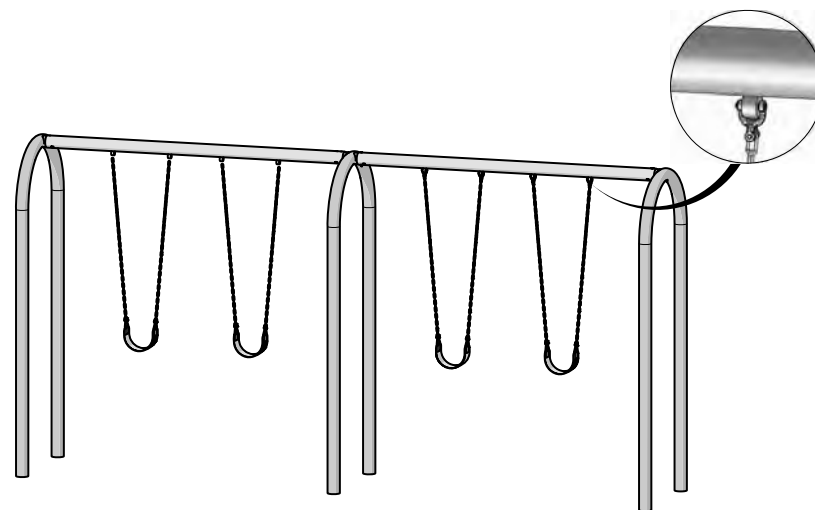
***Insert through the non-threaded
side of the clevis first.

3/8" x 1-1/4"
Button Head Bolt
w/ patch
BAE0667
(4 Total)



Detail C
Step 9

Thread the bolt into the clevis for
attachment to a swing seat chain.



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** on page 4 of this installation document.

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. Unbolt the support post from the existing footing and transplant it to the opposite end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to *Step 5*.

New Installation

Step 5: Attach both top rails (new and existing) to the middle arch post. See **Details A-1, A-2 and A-3**. Place the middle arch support into the prepared footing and brace. Place the top rails onto the arch stubs and align holes. Attach as shown.

Step 6: Re-attach the arch support to the opposite end of the frame using the existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: 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. Block and brace for concrete. Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the Footing Detail. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Step 8: Attach the swing clevises to the top rail. See **Detail B**. Position a swing clevis over the tab on the top rail, and align the holes.

Step 9: Thread bolt into the swing clevis. See **Detail C**. 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: 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 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

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. Labels are to be plainly visible according to current playground equipment guidelines.

XX0834 - 5 in. O.D. 2-UNIT ALUMINUM ARCH ADD-A-BAY

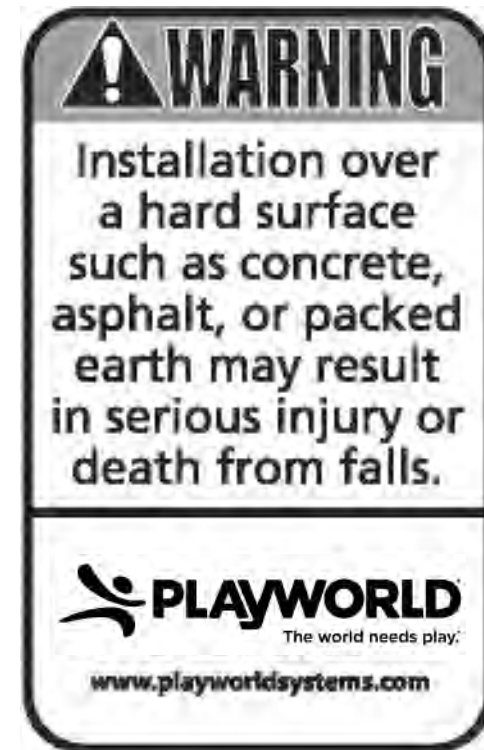
PART NO.	DESCRIPTION	QTY.
104467	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	4
984429	CLEVIS - SWING HANGER	4
AFR2010	SWING TOP RAIL - 5.00" O.D. x 126.00"	1
APT0145	POST - 5.00" O.D. x 133.50" DUAL ALM ARCH SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x .50"" SOCKET SET SS	4
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/NYLON PATCH	4
BAE0905	WRENCH - 3/16" HEX KEY	1
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	1



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

- 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.
- 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.
- 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

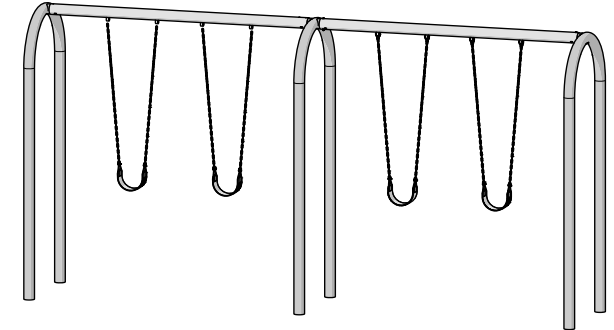
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®

Model XX0834

5 in. Outside Diameter
Aluminum Arch Swing
2-Unit Bay Addition



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: ___ / ___ / ___

