

APPENDIX 1 MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

BAXTER PARK

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BAXTER PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

BAXTER PARK
SW VIEW

R5

FOR KIDS
AGES
5-12



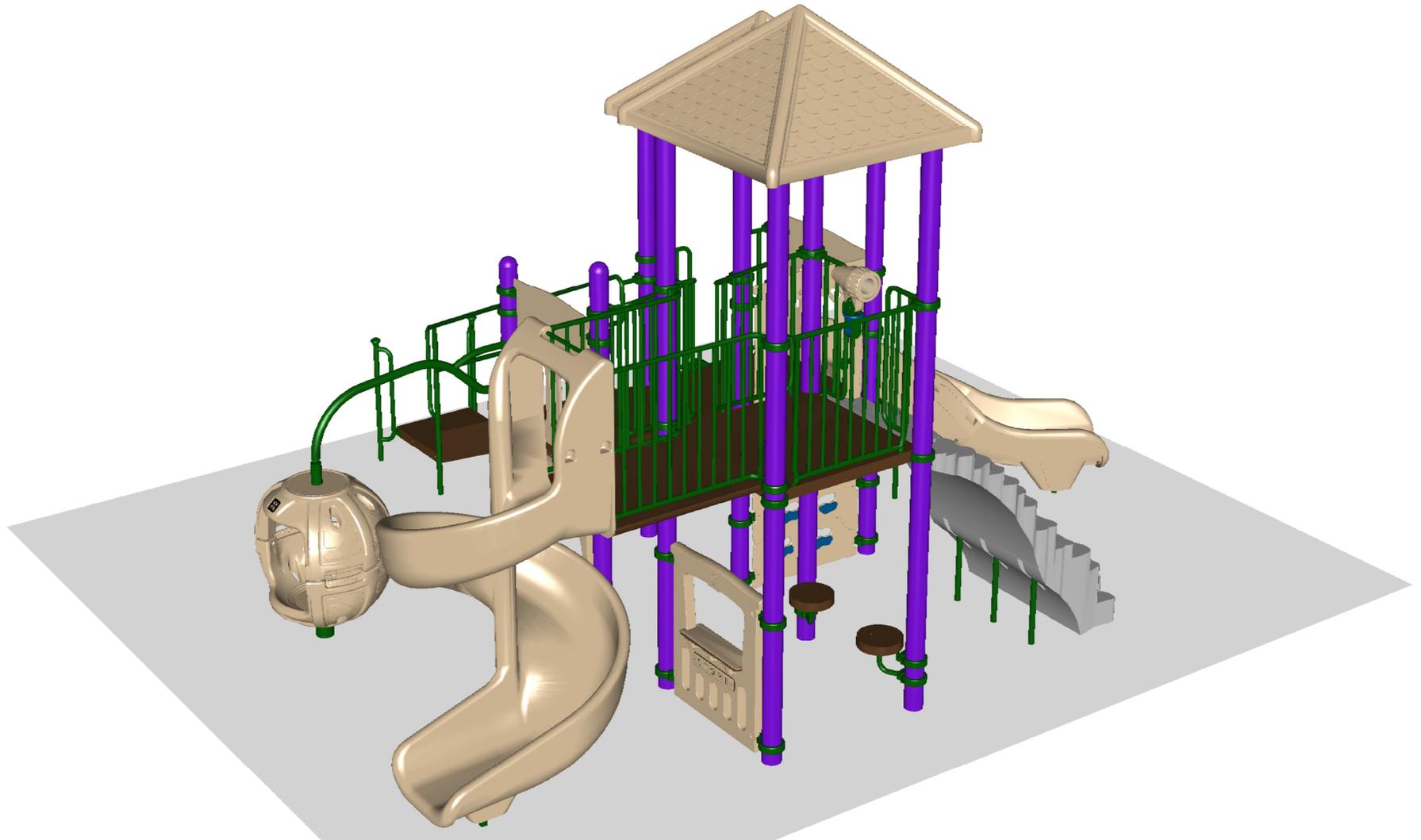
STRUCTURE#: R509B3CFD
PROJECT#: CRS17E63CEA-2
DATE: 2/13/2017 | DRAWN BY: DDJ



BAXTER PARK
NE VIEW

R5

FOR KIDS
AGES
5-12



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PROJECT#: CRS17E63CEA-2
DATE: 2/13/2017 | DRAWN BY: DDJ



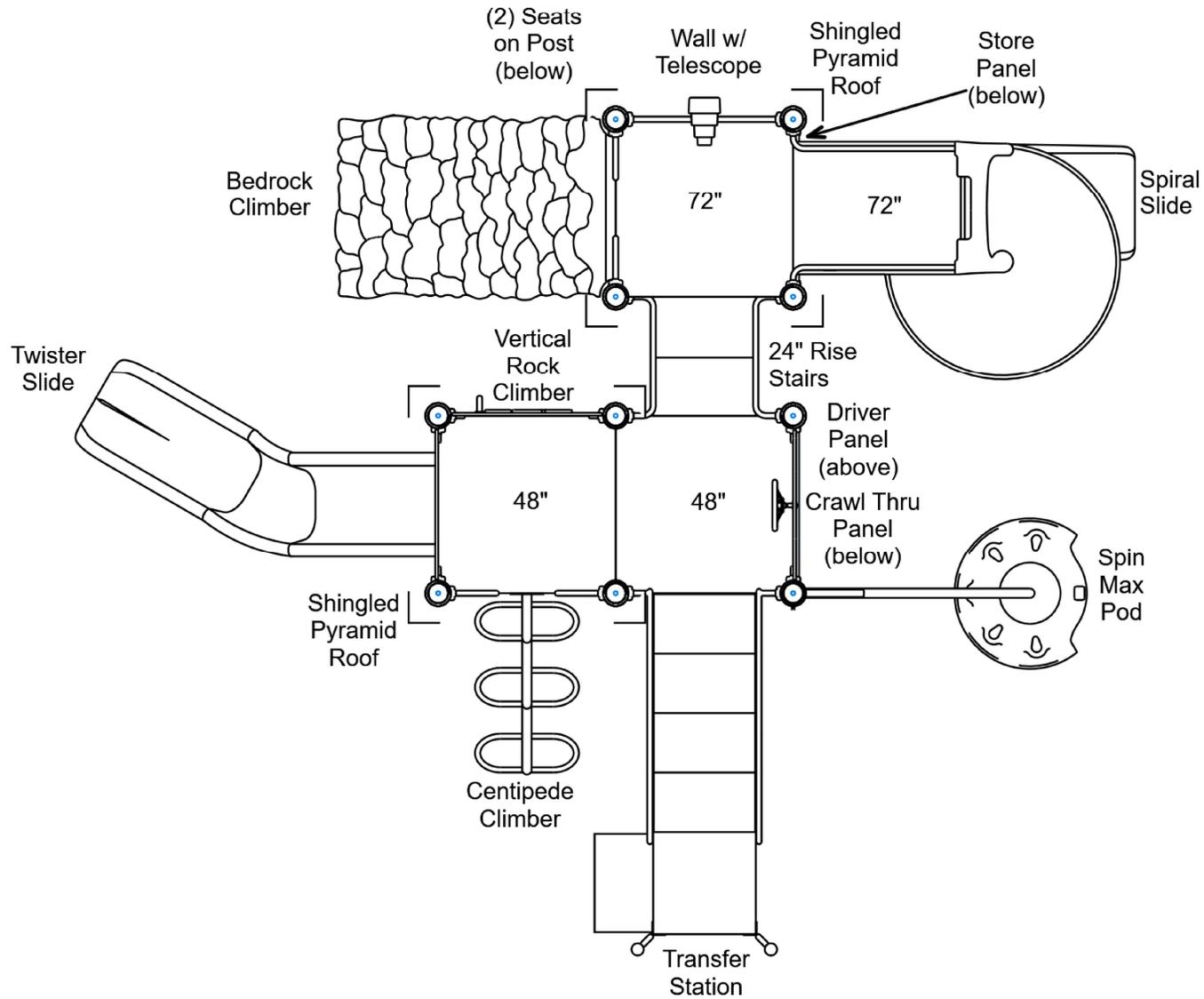
BAXTER PARK TOP VIEW

ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
7	7/4	0	5/2	3/2

R5

FOR KIDS
AGES
5-12



GENERAL NOTES:

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC's Handbook For Public Playground Safety, Section 4: Surfacing.

STRUCTURE#: R509B3CFD

PROJECT#: CRS17E63CEA-2

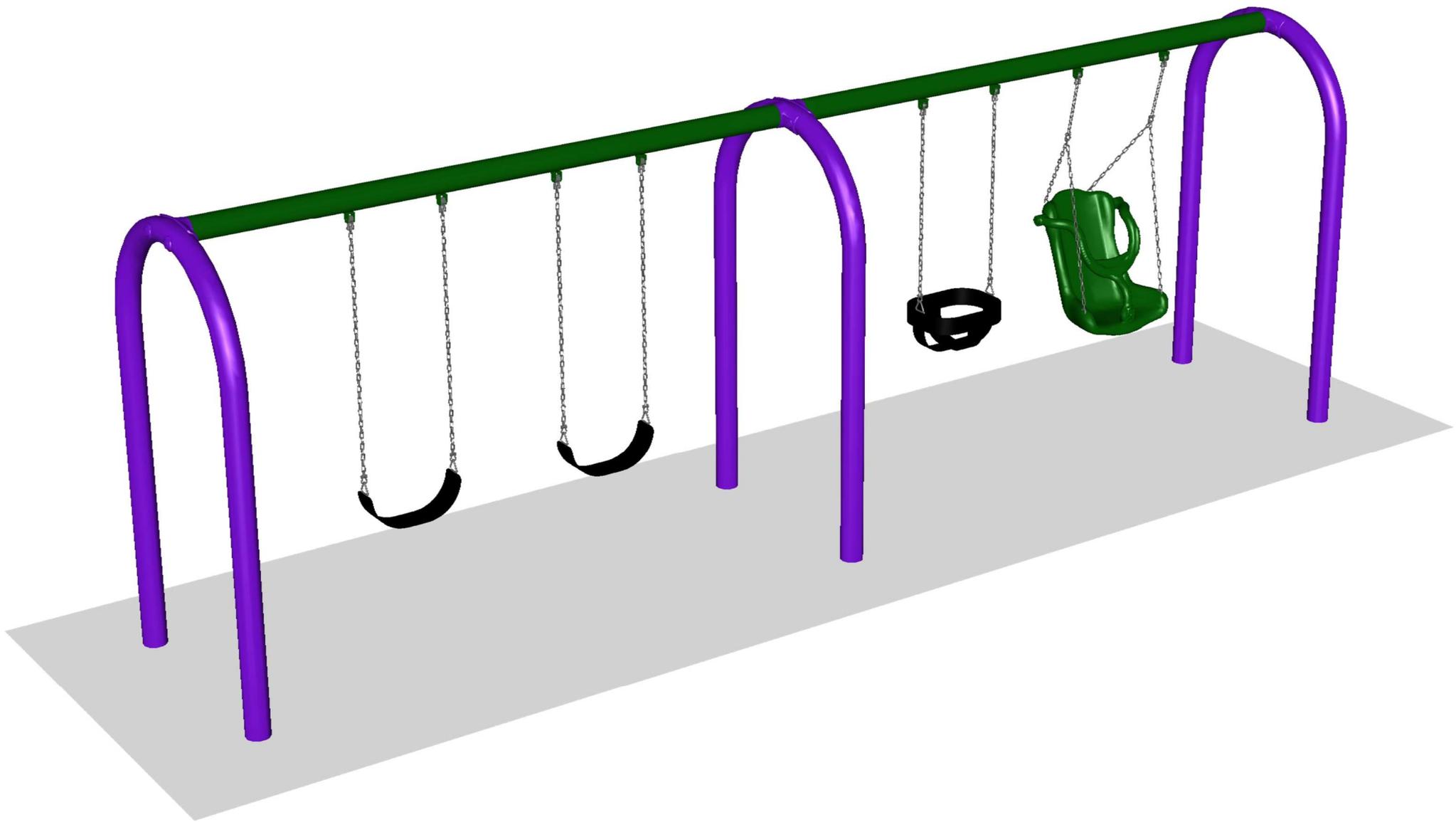
DATE: 2/13/2017 | DRAWN BY: DDJ

MIN. USE ZONE: 35' x 30'

PLAYCRAFT REP:

Commercial Recreation Specialists





BAXTER PARK
TOP VIEW

ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0	4/0	1/0

R5

FOR KIDS
AGES
5-12

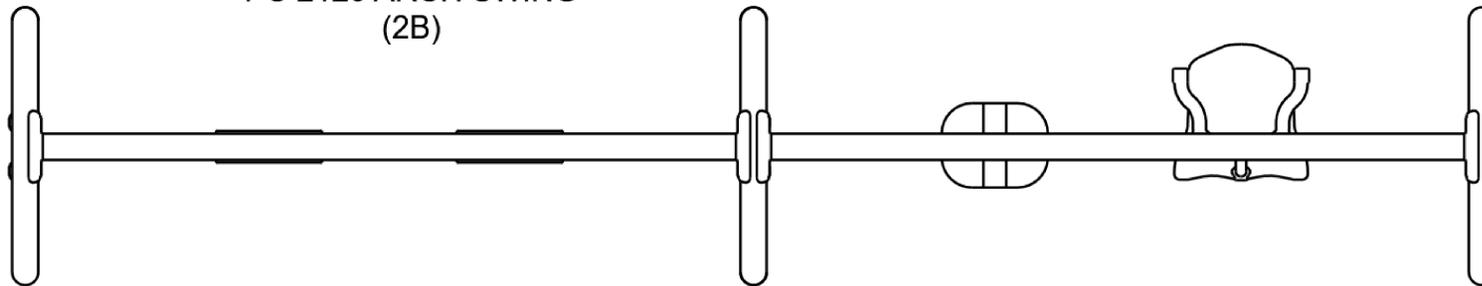
GENERAL NOTES:

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.

PC 2120 ARCH SWING ADD-A-BAY W/ 1 FULL BUCKET, 1 INCLUSIVE SEAT

PC 2120 ARCH SWING
(2B)



STRUCTURE#: FREPC2120+AB

PROJECT#: CRS17E63CEA-2

DATE: 2/13/2017 | DRAWN BY: DDJ

MIN. USE ZONE: 36' x 30'

PLAYCRAFT REP:

Commercial Recreation Specialis



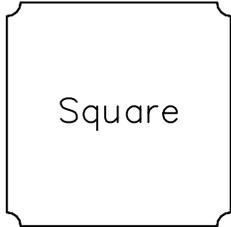


Bill of Materials

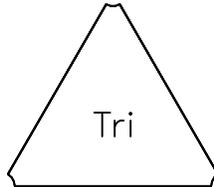
BAXTER PARK
Nick McHone

Project# CRS17E63CEA-2
2/13/2017

Item	Description	Quantity
R509B3CFD		
HS-1004-R	Collars	44
GF-7002	Dome Cap, R5	2
S-1011-R5-11ft	Post, 11ft R5	1
S-1012-R5-12ft	Post, 12ft R5	1
S-1014-R5-14ft	Post, 14ft R5	4
S-1016-R5-16ft	Post, 16ft R5	4
S-1101-R5	Square Deck	3
S-1206-24R5	ADA Stairs, 24in Rise w/ Walls (Short)	1
S-1209-36-R5	Transfer Station, 48in-L	1
S-1220-4R5	Climber, Centipede 42-48in	1
S-1228-6R	Climber, Bedrock 66-72in	1
S-1237-4R5	Climber, Vertical Rock 42-48in	1
S-1301-1830-S-R5	Wall w/ Telescope	1
S-1600-R5G	Crawl Thru Panel	1
S-1615-R5	Store Panel	1
S-1625-R5	Driver Panel	1
S-1706-R5	Slide, Spiral 72in	1
S-1710-4R5-R	Slide, Twister 48in (R)	1
S-1807-R5	Roof, Square Pyramid (Shingled)	2
S-1963-R5	Seat on Post	2
S-1972-R5	Spin Max Pod	1
HS-1100-2	Deck to Deck Hardware	2
FREPC2120+AB		
A2-2120-2B	PC 2120 Arch Swing (2B)	1
A2-2120-FB-ADA-AB	PC 2120 Arch Swing (Right, 1FB, 1INC)	1



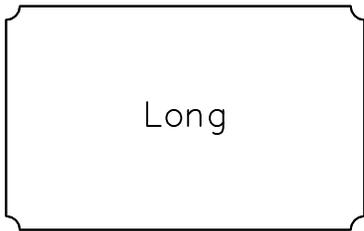
R5 Deck 1



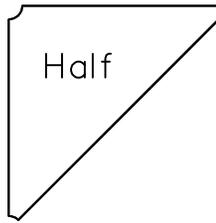
R5 Deck 2



R5 Deck 4



R5 Deck 4



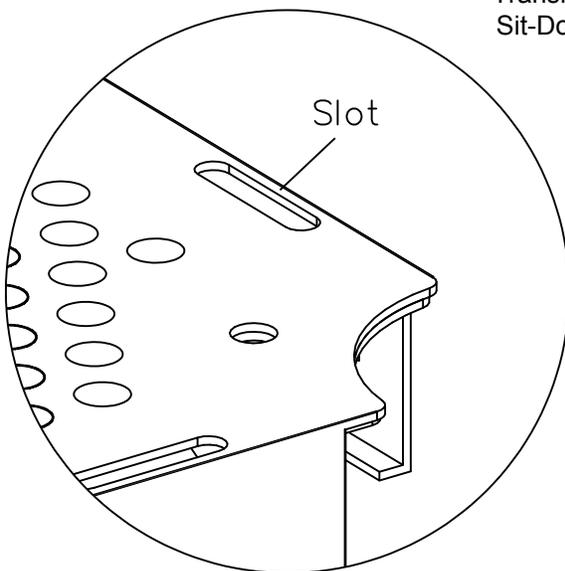
R5 Deck 5



R5 Deck 6

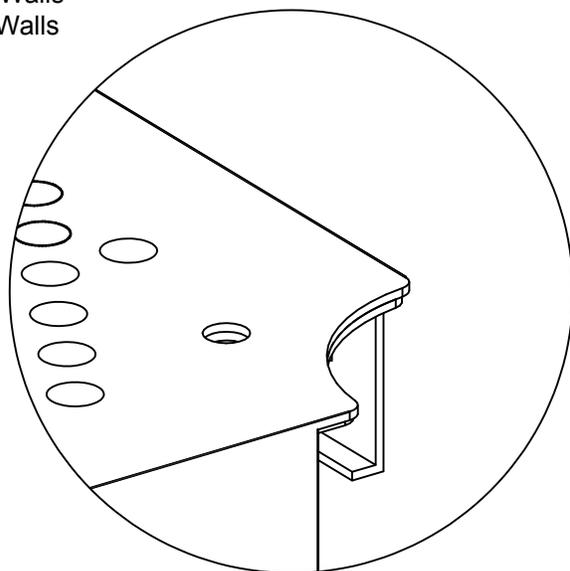
Note: Most walls require Decks w/ slots.

Deck With Slots

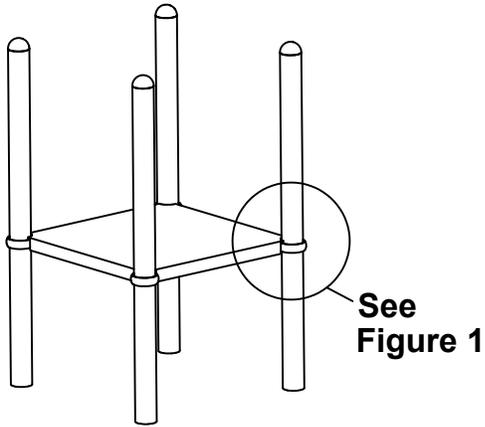


APPLIES TO:
Full Walls
Half Walls
Transition Walls
Sit-Down Walls

Deck Without Slots



Assembly View



R5 DECK 1

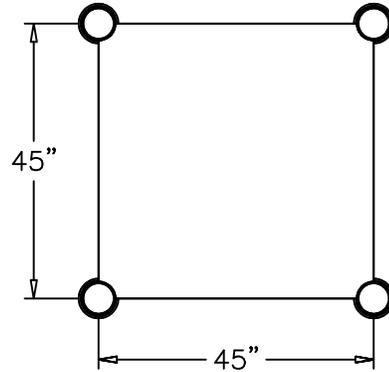
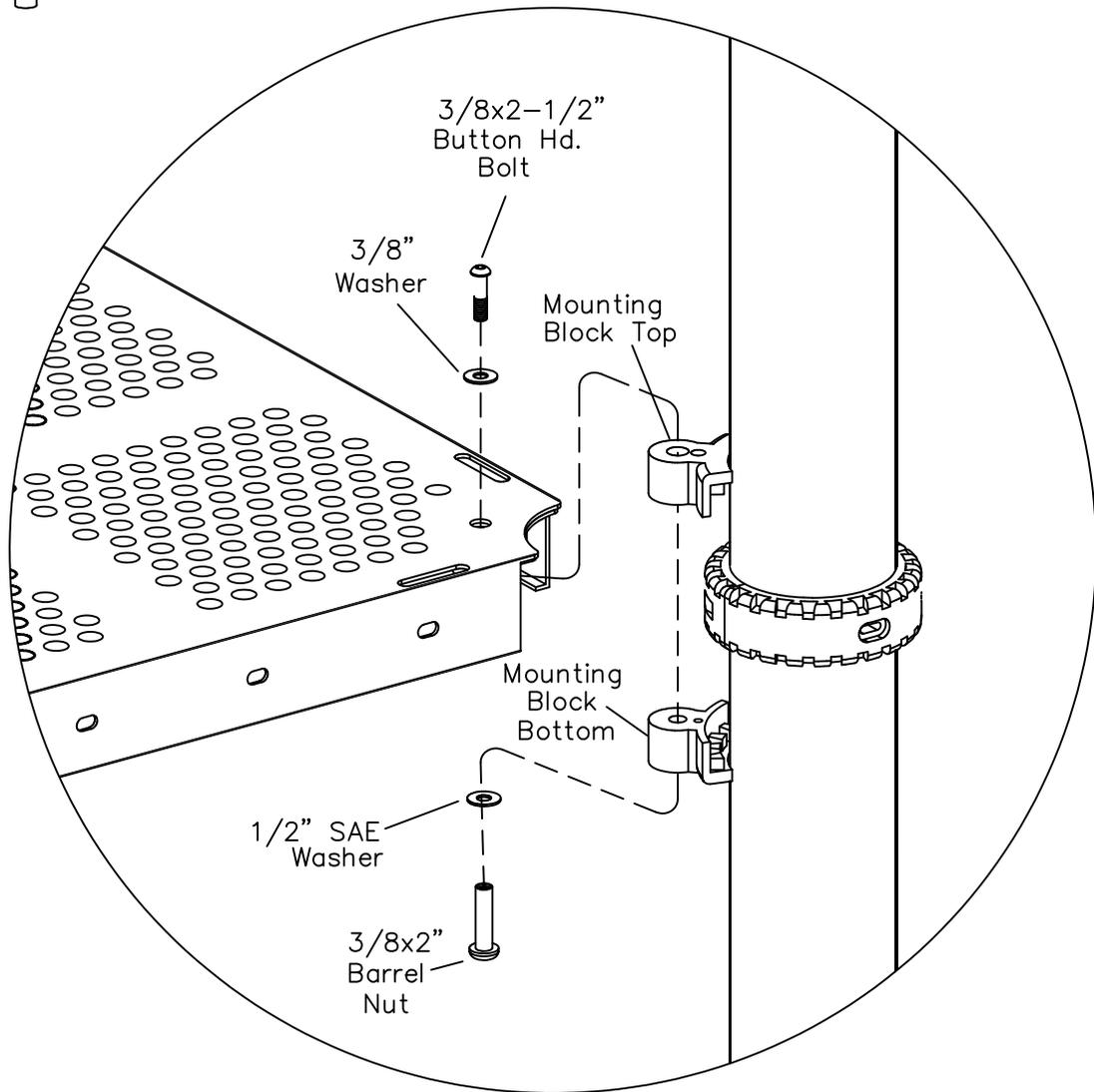


Figure 1



Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	R5 Deck 1	7008
4	Mounting Block Top	7006-T
4	Mounting Block Bottom	7006-B
4	3/8 x 2-1/2" Button Hd. Bolts	9103112-TR
4	3/8 x 2" Barrel Nuts	9443092-TR
4	3/8" Washers	9333002
4	1/2" SAE Washers	9345002

Installation

Notes:

(A) All deck heights on your system's top view drawing are measured from the top of ground cover (finished grade). Post location dimensions are on centers.

(B) The collars are to be located 7/8" below the top of the deck (to the top of the collar). Refer to page R5-09 for Collar Assembly instructions.

(C) Never allow the gap between decks to be between 3-1/2" and 9". Deck fillers are provided for gaps between decks with 8" and 12" rise increments.

(D) Use liquid thread lock (such as Loctite) with all threaded hardware that does not include self-locking nuts.

Specifications

R5 DECK 1:

Deck shall be constructed using 12 gauge sheet steel which shall be formed and fabricated into required designs. All steel decks and stepping surface shall be punched with a uniform hole pattern and be finished with slip-resistant PVC (poly-vinyl-chloride) coating.

MOUNTING BLOCKS:

Shall be two part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Step 1.

Place Mounting Blocks on the support collars and lower Deck into place, aligning the holes with the Mounting Block holes.

Step 2.

Secure each corner of Deck to the support post's collars using hardware as shown in Figure 1 .

Step 3.

Square and level all support posts and deck assemblies. Check to ensure that all deck assemblies are at the specified heights above the ground cover level.

Step 4.

Fully tighten all fasteners.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately.

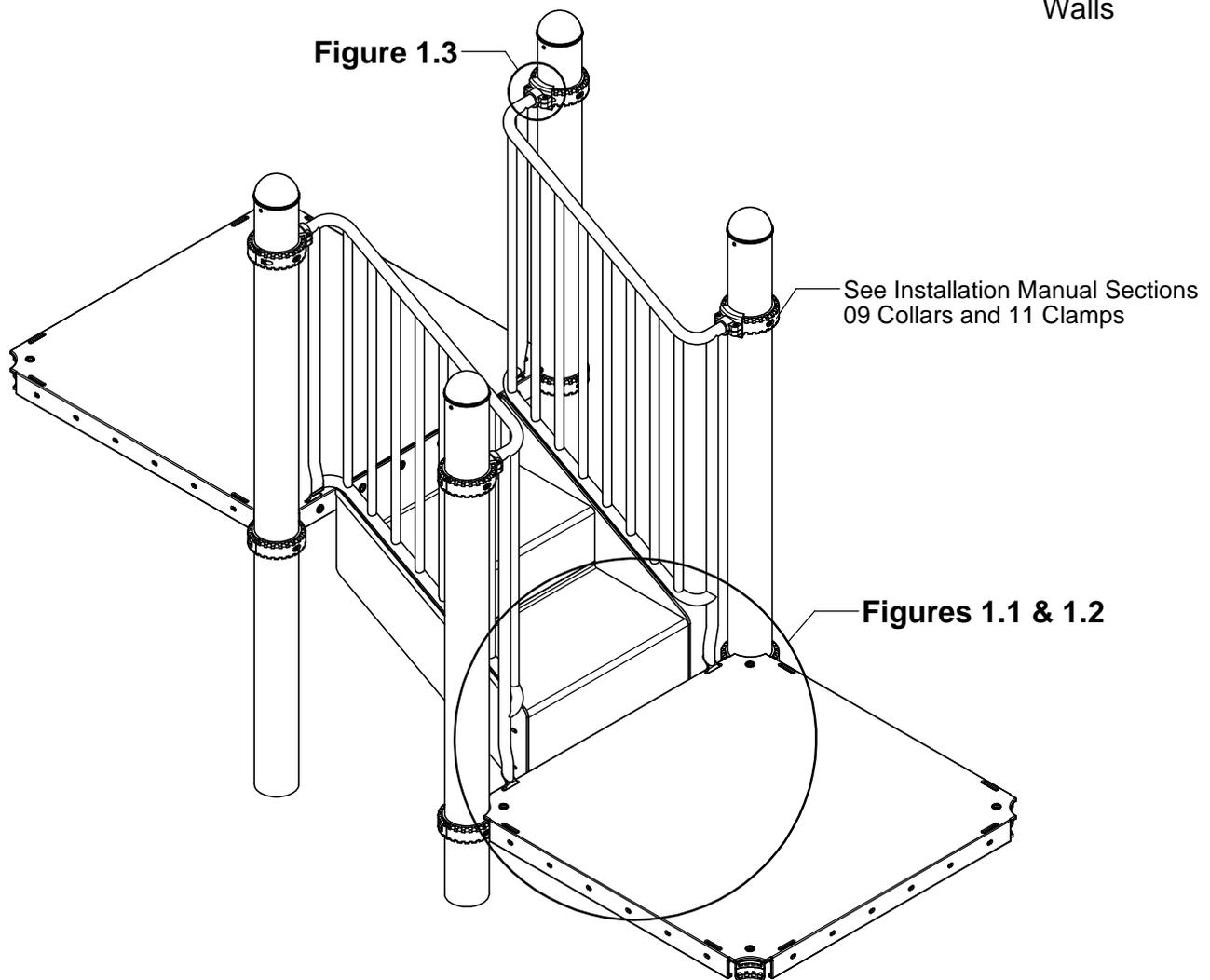
IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps installation instructions.

(C) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
24" ADA Steps w/
Walls



NOTE: R5 24" configuration shown. Other configurations will vary slightly, but does not affect the assembly.



Manufactured by Krauss Craft, Inc.
www.playcraftsystems.com

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800.333.8519 (U.S.A.) or
541.955.9199 (International)

Rev K
8/12/2016

Step 1

Attach ADA Steps to lower deck as shown in Figure 1.1.

Repeat for upper deck.
(See Note A)

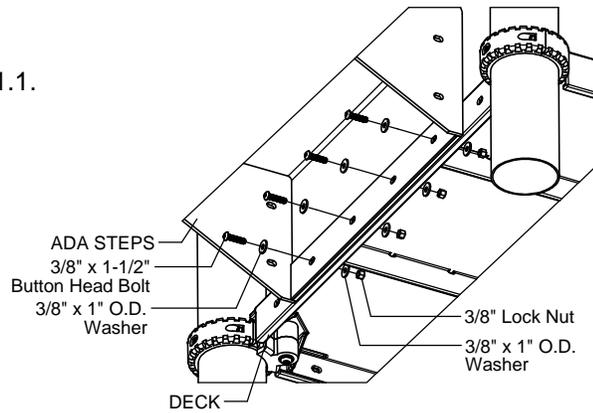


Figure 1.1

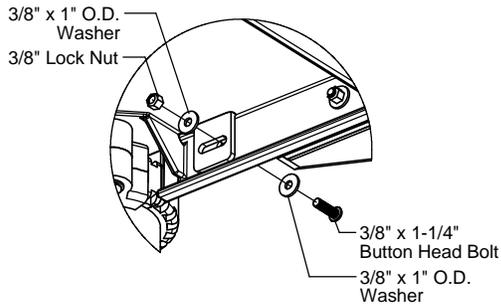


Figure 1.2

Step 2

Loosely attach ADA Step Walls to decks as shown in Figure 1.2. (See Note A)

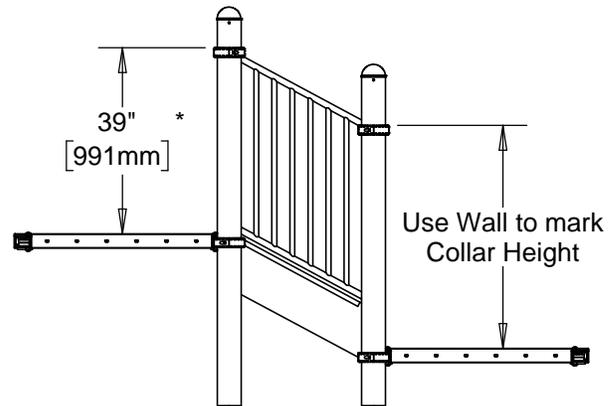


FIGURE 2

Step 3

Attach collars at height shown in Figure 2.
(See Note B)

* Height shown from top of deck to top of collar.

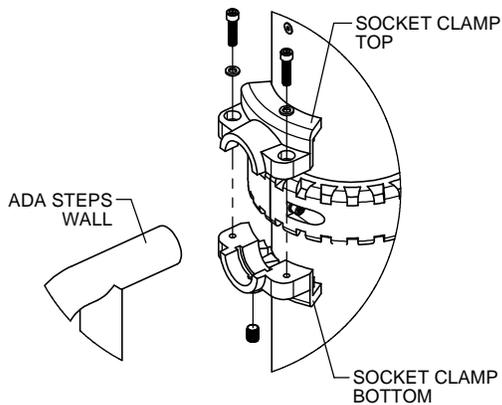


Figure 1.3

Step 4

Attach ADA Step Walls to collars as shown in Figure 1.3. (See Note B)

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Place appropriate compliant protective surfacing under and around ADA Steps.
(See Note C)

R5 Parts List

R5-1206-12 - 12" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4335	ADA Step 12-26	1
FS-1206-12R	ADA Steps 12-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-18 - 18" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4380	ADA Steps 18-26	1
FS-1206-18R	ADA Steps 18-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24 - 24" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4203	ADA Steps 24-26	1
FS-1206-24R	ADA Steps 24-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24R45 - ADA Steps w/ Walls 24"H x 45"L R5

Part #	DESCRIPTION	QTY.
CE-4911	ADA Steps 24-26-45 Run	1
FS-1206-24R45	ADA Steps 24-26-45 Wall Set	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24RCRV - 24" Curved Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CF-0848	Curved Steps 24" Rise R5	1
FS-1206-24CRVI	Curved Steps Inner Wall 24" Rise R5	1
FS-1206-24CRVO	Curved Steps Outer Wall 24" Rise R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-30 - 30" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4194	ADA Steps 30-26	1
FS-1206-30	ADA Steps 30-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-36 - 36" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4294	ADA Steps 36-26	1
FS-1206-36R	ADA Steps 36-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-42 - 42" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-0030	ADA Steps 42-26	1
FS-1206-42R	ADA Steps 42-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-48 - 48" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4486	ADA Steps 48-26	1
FS-1206-48R	ADA Steps 48-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12



R3.5 Parts List

R3.5-1206-12 - 12" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4335	ADA Step 12-26	1
FS-1206-12R35	ADA Steps 12-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-18 - 18" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4380	ADA Steps 18-26	1
FS-1206-18R35	ADA Steps 18-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-24 - 24" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4203	ADA Steps 24-26	1
FS-1206-24R35	ADA Steps 24-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-30 - 30" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4194	ADA Steps 30-26	1
FS-1206-30R35	ADA Steps 30-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-36 - 36" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4294	ADA Steps 36-26	1
FS-1206-36R35	ADA Steps 36-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-42 - 42" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-0030	ADA Steps 42-26	1
FS-1206-42R35	ADA Steps 42-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-48 - 48" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4486	ADA Steps 48-26	1
FS-1206-48R35	ADA Steps 48-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

Specifications

ADA STEPS:

Shall be made using punched, formed, and welded 12 gauge sheet steel with reinforcing cross members and gussets. The ADA Steps shall be Play-Tuff™ coated after fabrication.

ADA STEP WALLS:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.029" O.D. 14 gauge steel rungs and 1/4" thick steel brackets. The ADA Step Walls shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

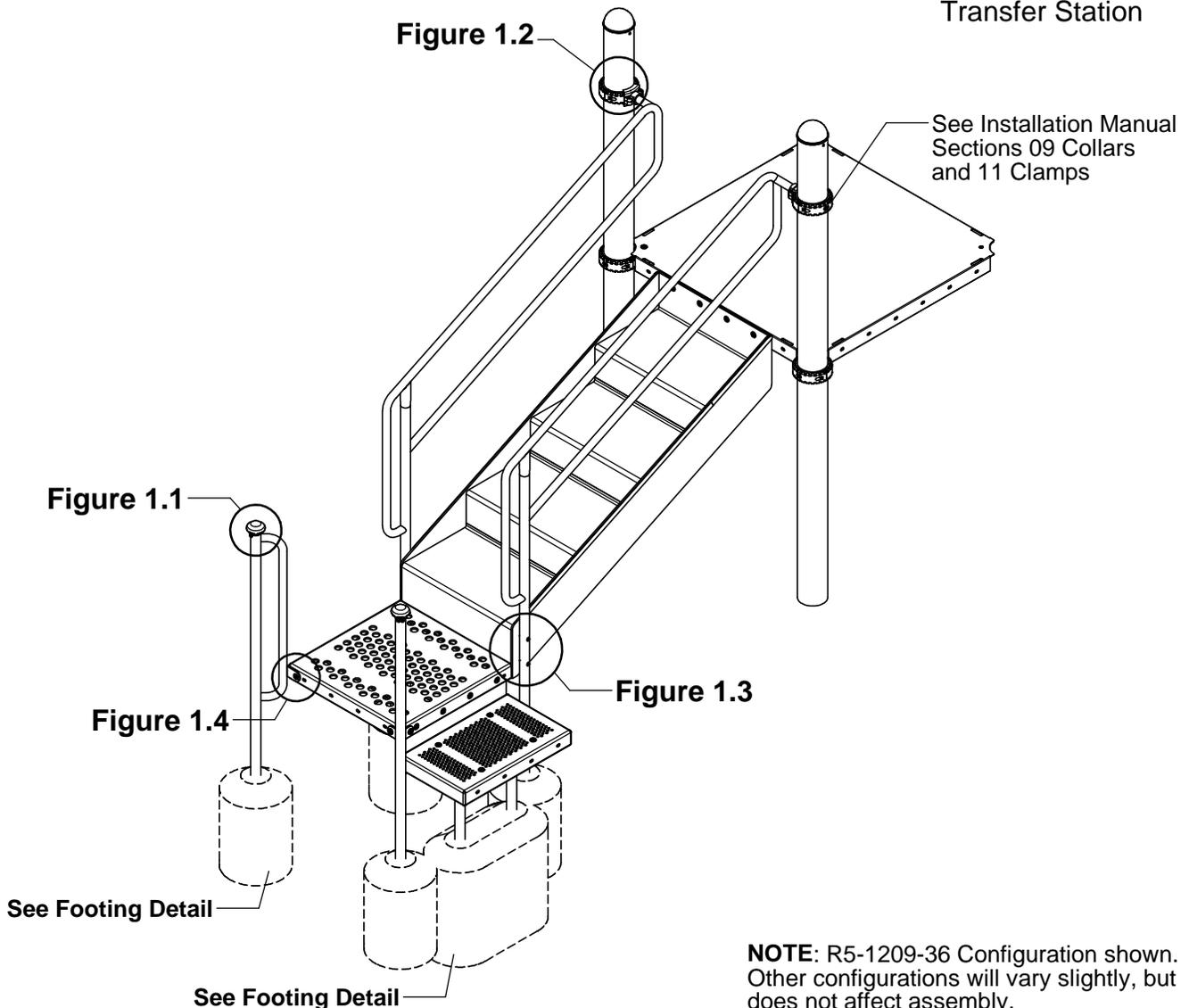
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 09 Collars and 11 Socket Clamps installation instructions.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Transfer Station



NOTE: R5-1209-36 Configuration shown. Other configurations will vary slightly, but does not affect assembly.

Step 1

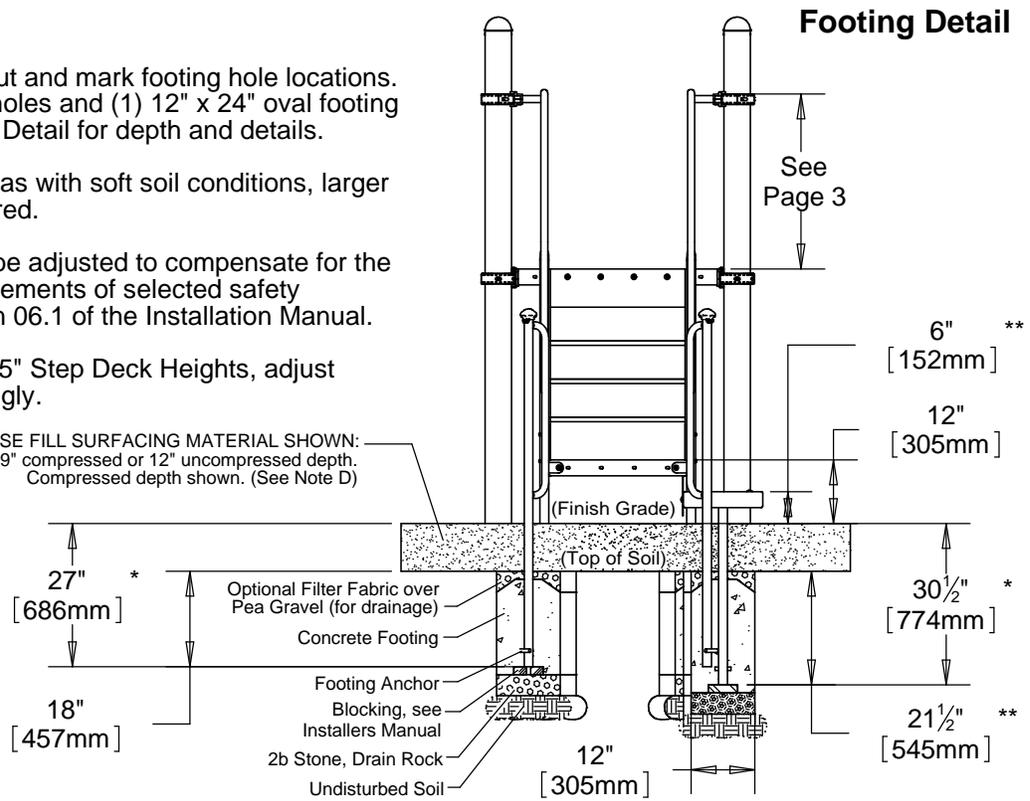
Refer to Footing Layout and mark footing hole locations. Dig (4) Ø 12" footing holes and (1) 12" x 24" oval footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

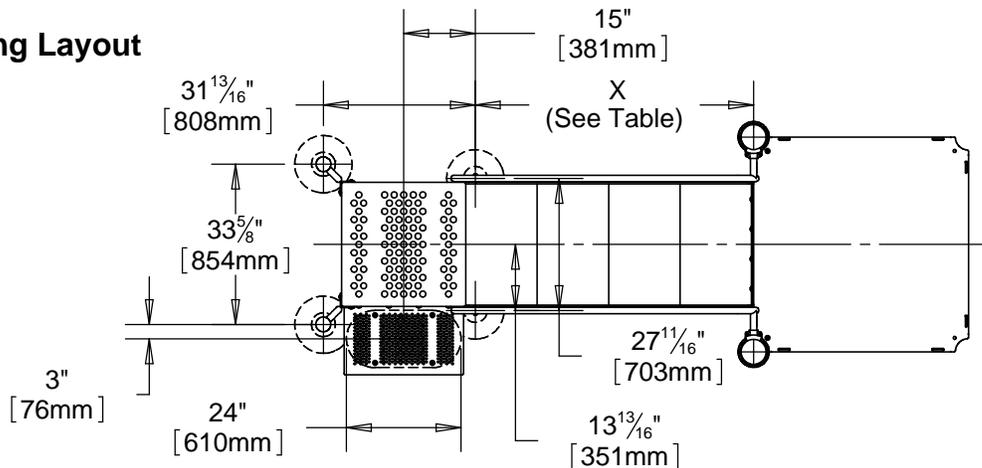
* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** For optional 4" and 5" Step Deck Heights, adjust footing depth accordingly.

LOOSE FILL SURFACING MATERIAL SHOWN:
9" compressed or 12" uncompressed depth.
Compressed depth shown. (See Note D)



Top View - Footing Layout



Footing Distance Table
Center of Post to Center of Footing

Deck Height	Assembly	X (in.)	X (mm)
24"	Transfer Station 12-24	13-1/4"	337
36"	Transfer Station 12-36	28-1/4"	717
42"	Transfer Station 12-42	43"	1092
48"	Transfer Station 12-48	58-1/4"	1480
60"	Transfer Station 12-60	73-1/4"	1861
72"	Transfer Station 12-72	103-1/4"	2623

Step 2

Locate and attach collars to posts at height shown in Figure 2. (See Note C)

NOTE: Collar height varies based on Transfer Station Hand Rail Type.

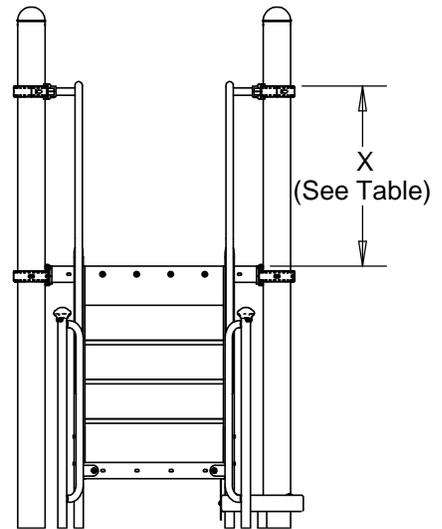
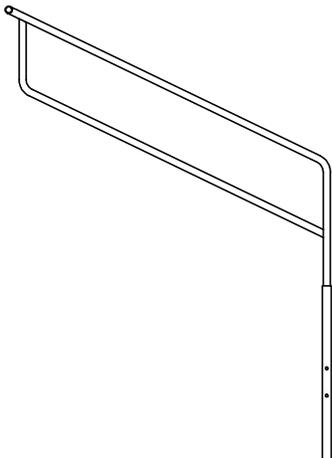
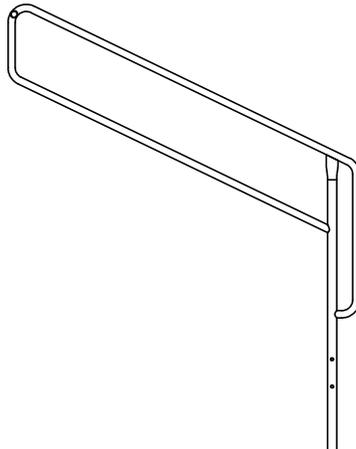


FIGURE 2
Transfer Station Hand Rail Identification
and Collar Height

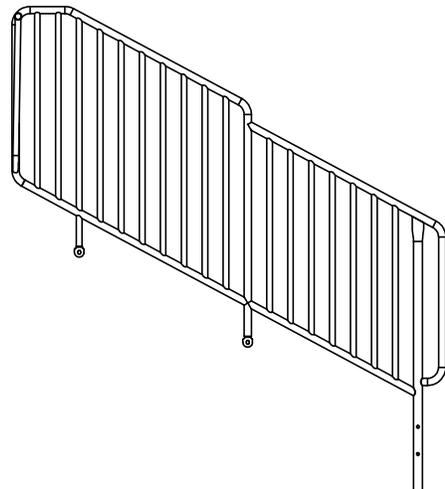
**RAIL
TYPE 1**



**RAIL
TYPE 2**



**RAIL
TYPE 3**



Collar Height Table Top of Deck to Top of Collar		
Hand Rail	X (in.)	X (mm)
TYPE 1	35-1/2"	902
TYPE 2 & 3	33"	838

Step 3 (Factory Assembled)

Attach Transfer Leg Top to Transfer Deck Support as shown in Figure 1.1. (See Note A)

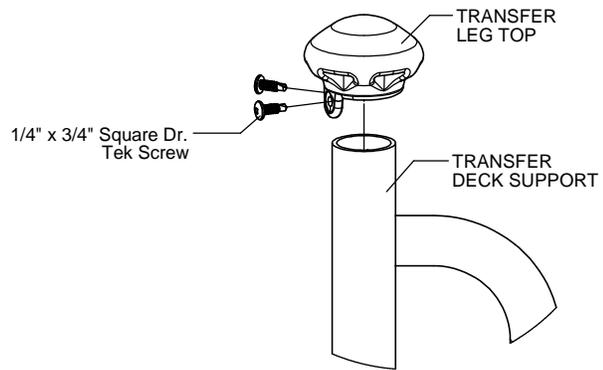


Figure 1.1

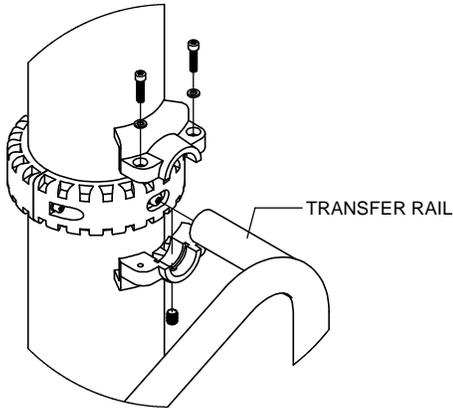


Figure 1.2

Step 4

Place Transfer Rails into footing holes and attach to collars as shown in Figure 1.2. (See Note C)

Step 5

Attach ADA Steps to Transfer Rails as shown in Figure 1.3. (See Note A)

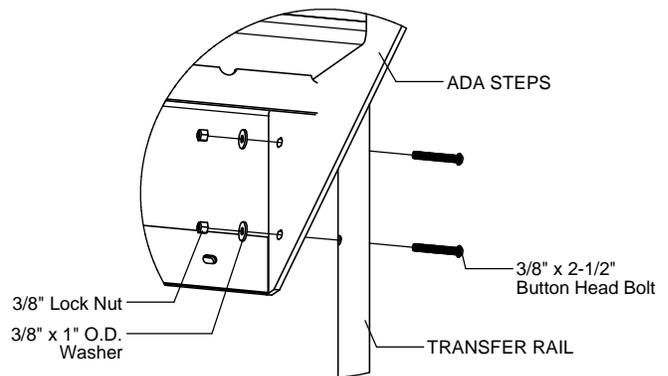


Figure 1.3

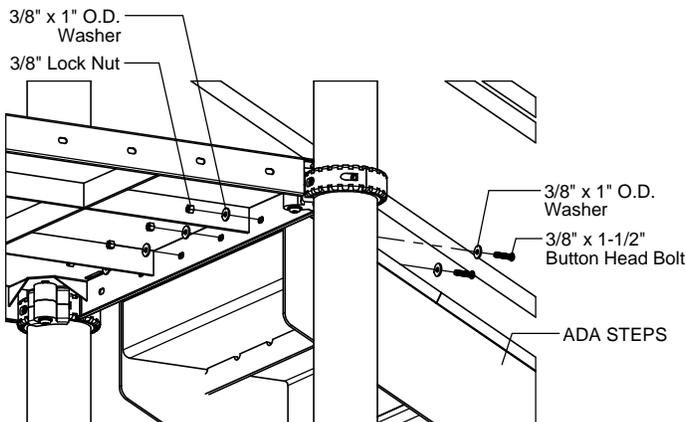


FIGURE 3

Step 6

Attach ADA Steps to deck as shown in Figure 3. (See Note A)

Step 7

For Transfer Station to 60" & 72" Decks Only

Attach Transfer Rail to ADA Steps as shown in Figure 4. (See Note A)

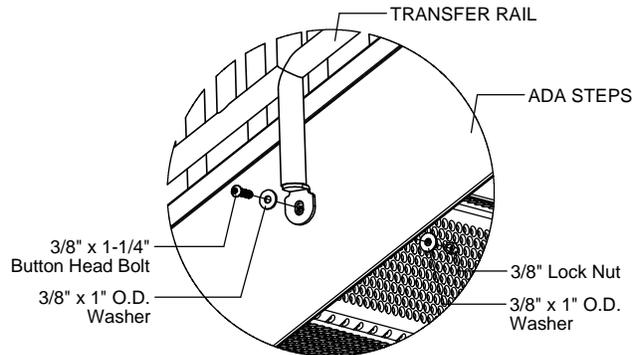


FIGURE 4

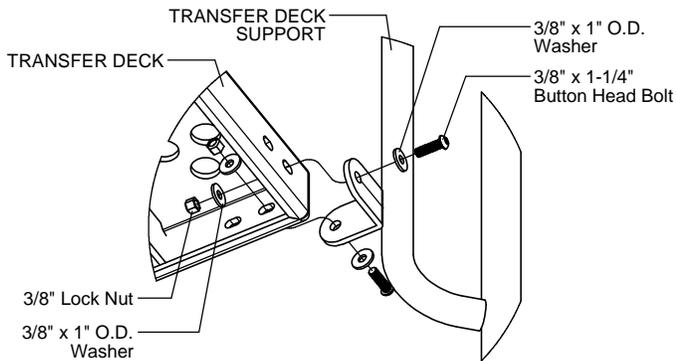


Figure 1.4

Step 8

Attach Transfer Deck Supports to Transfer Deck as shown in Figure 1.4. (See Note A)

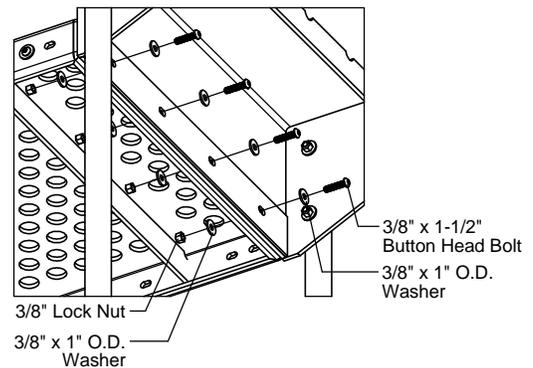


FIGURE 5

Step 9

Place Transfer Deck Supports into footing holes and attach Transfer Deck to ADA Steps as shown in Figure 5. (See Note A)

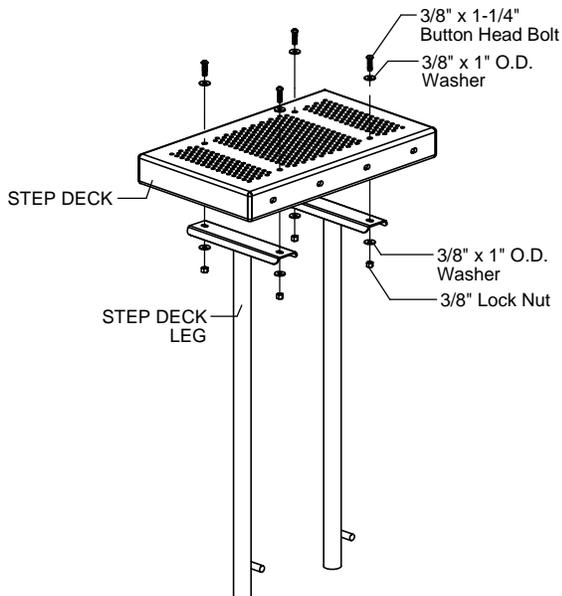


FIGURE 6

Step 10

Attach Step Deck Legs to Step Deck as shown in Figure 6. (See Note A)

Step 11

Place Step Deck Legs into footing holes and attach Filler to Transfer Deck and Step Deck as shown in Figure 7. (See Note A)

Step 12

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 13

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 14

Place required protective surfacing under and around Transfer Station. (See Note D)

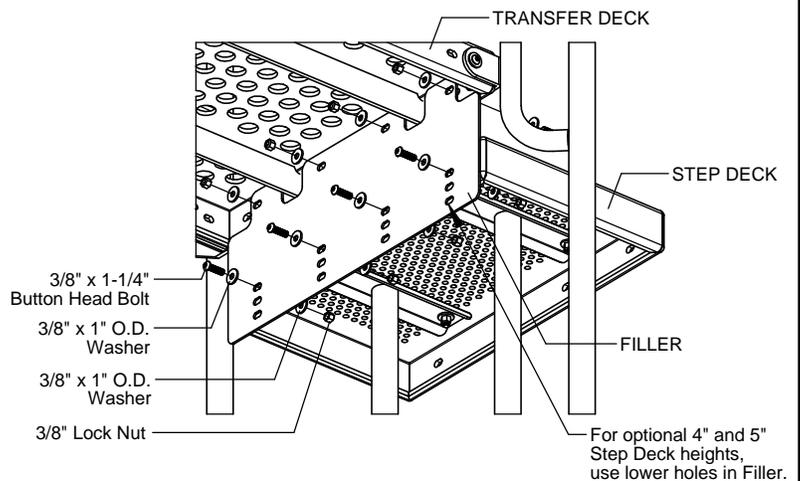


FIGURE 7

Specifications

STEP DECK LEG:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 10 gauge steel mounting bracket. The Step Deck Leg shall have a multi-stage baked-on powder coat finish.

STEP RAILS:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.660" O.D. 11 gauge steel leg. The Step Rails shall have a multi-stage baked-on powder coat finish.

TRANSFER STATION WALL:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.660" O.D. 11 gauge steel leg and 1.029" O.D. 14 gauge steel rungs. The Transfer Station Wall shall have a multi-stage baked-on powder coat finish.

STEPS & DECKS:

Shall be fabricated using punched, formed and welded 14 gauge sheet steel. Steps and Decks shall be Play-Tuff™ coated after fabrication.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

TRANSFER STATION INSTALLATION INSTRUCTIONS

1209
Page 7 of 7

Parts List

S-1209-12 - Transfer Station 12-24		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4335	ADA Step 12-26	1
FS-1202	Step Deck Leg	2
FS-1209-12	Transfer Station H Rail 24	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-36 - Transfer Station 12-48		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4294	ADA Steps 36-26	1
FS-1202	Step Deck Leg	2
FS-1209-36R	Transfer Station H. Rail 48	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-24 - Transfer Station 12-36		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4203	ADA Steps 24-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-24R	Transfer Station H. Rail 36	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-48 - Transfer Station 12-60		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4486	ADA Steps 48-26	1
FS-1202	Step Deck Leg	2
FS-1209-48	Transfer Station Wall 60	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	20
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	60
9413002	Nut Lock 3/8"	32

S-1209-30 - Transfer Station 12-42		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4194	ADA Steps 30-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-30R	Transfer Station H. Rail 42	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-60 - Transfer Station 12-72		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-0166	ADA Steps 60-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-60	Transfer Station Wall 72	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	20
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	60
9413002	Nut Lock 3/8"	32

Assembled Parts List

Part #	DESCRIPTION	QTY.
FS-1209A	Transfer Deck Support	2
GE-4636	Transfer Leg Top	2
9271032	Screw Tek 1/4" x 3/4" PH SQDR	4

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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541.955.9199 (International)

Rev Q
4/12/2012

IMPORTANT NOTES: Read First

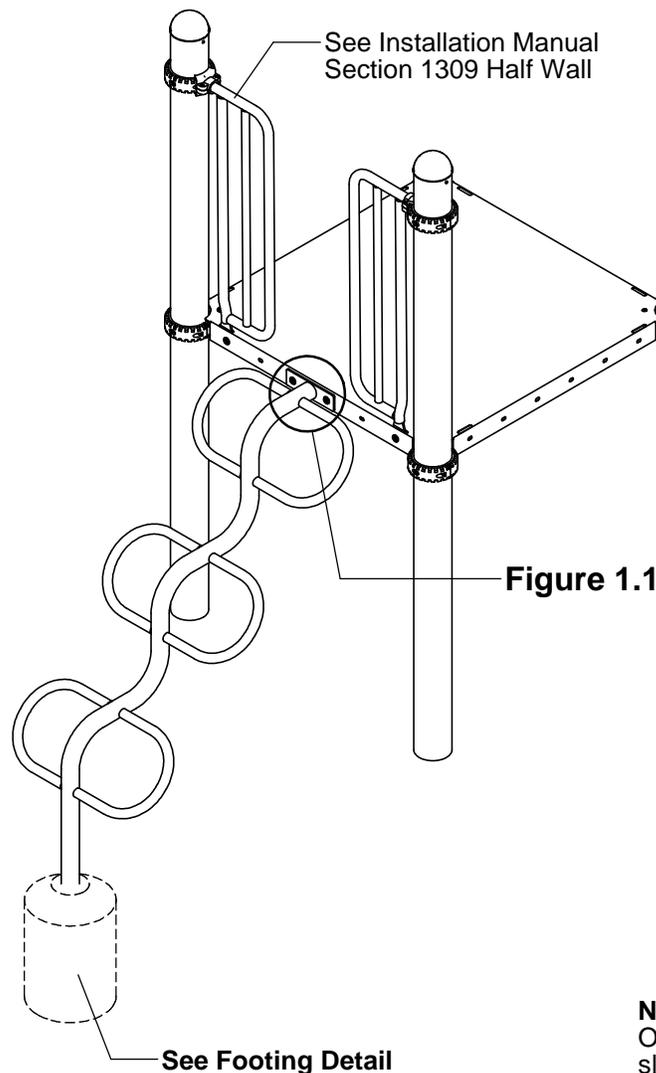
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 09 Collars, 11 Socket Clamps, and 1309 Half Wall installation instructions.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

**FIGURE 1
Centipede Climber**



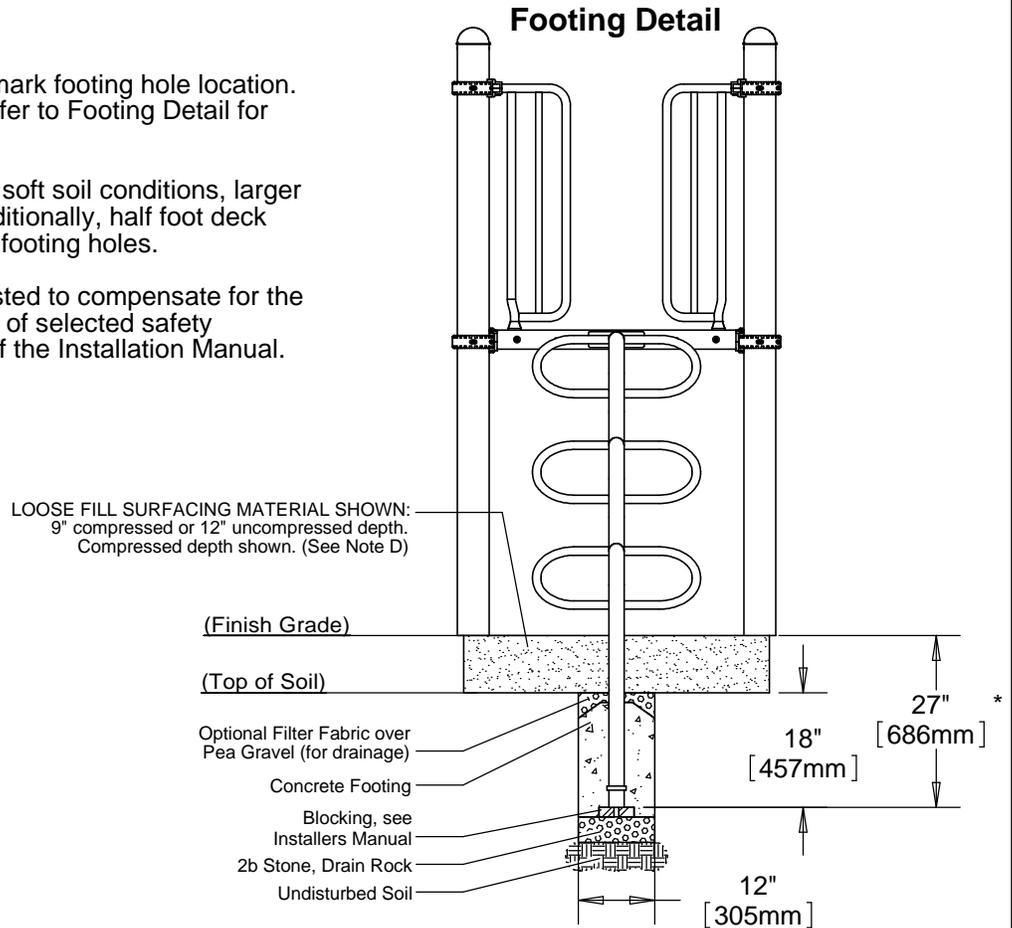
NOTE: R5 4' deck height shown. Other configurations will vary slightly, but does not affect assembly.

Step 1

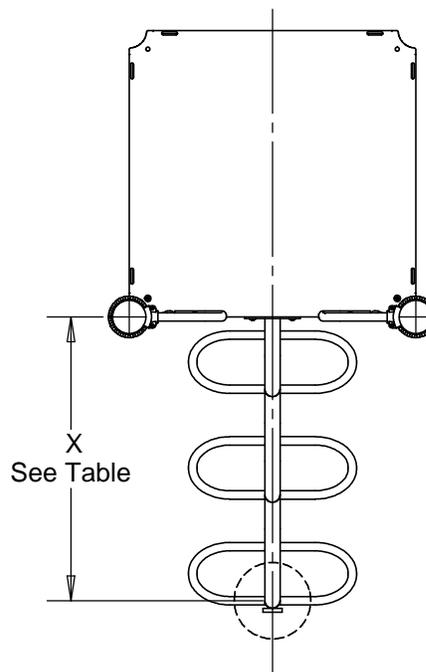
Refer to Footing Layout and mark footing hole location. Dig (1) Ø 12" footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, half foot deck heights will require 6" deeper footing holes.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.



Top View - Footing Layout



Footing Distance Table

Center of Post to Center of Footing (Approx.)

Deck Height	x (in.)	x (mm)
30", 36"	28	710
42", 48", 54"	44-9/16	1133
60", 72"	61-3/16	1555

Step 2

Attach Half Walls to deck. Place Centipede Climber into footing hole and attach to deck as shown in Figure 1.1. (See Notes A & C)

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 4

Plumb and level entire component. Pour concrete into footing hole(s). Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 5

Place required protective surfacing under and around Centipede Climber. (See Note D)

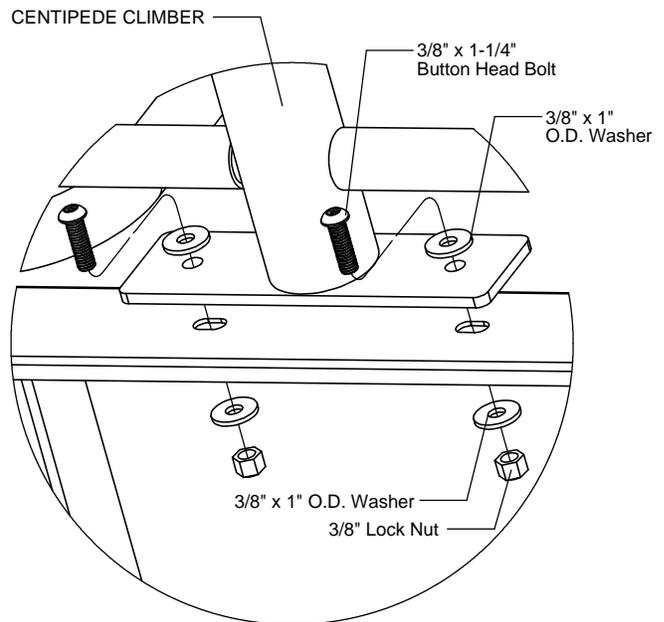


Figure 1.1

Parts List

Part #	DESCRIPTION	QTY
Varies	Centipede Climber	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

Specifications

CENTIPEDE CLIMBER:

Shall be fabricated from 2.375" O.D. 10 gauge steel tubing center rail with 1.315" O.D. 12 gauge steel tubing loops welded on. Centipede Climber shall have multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

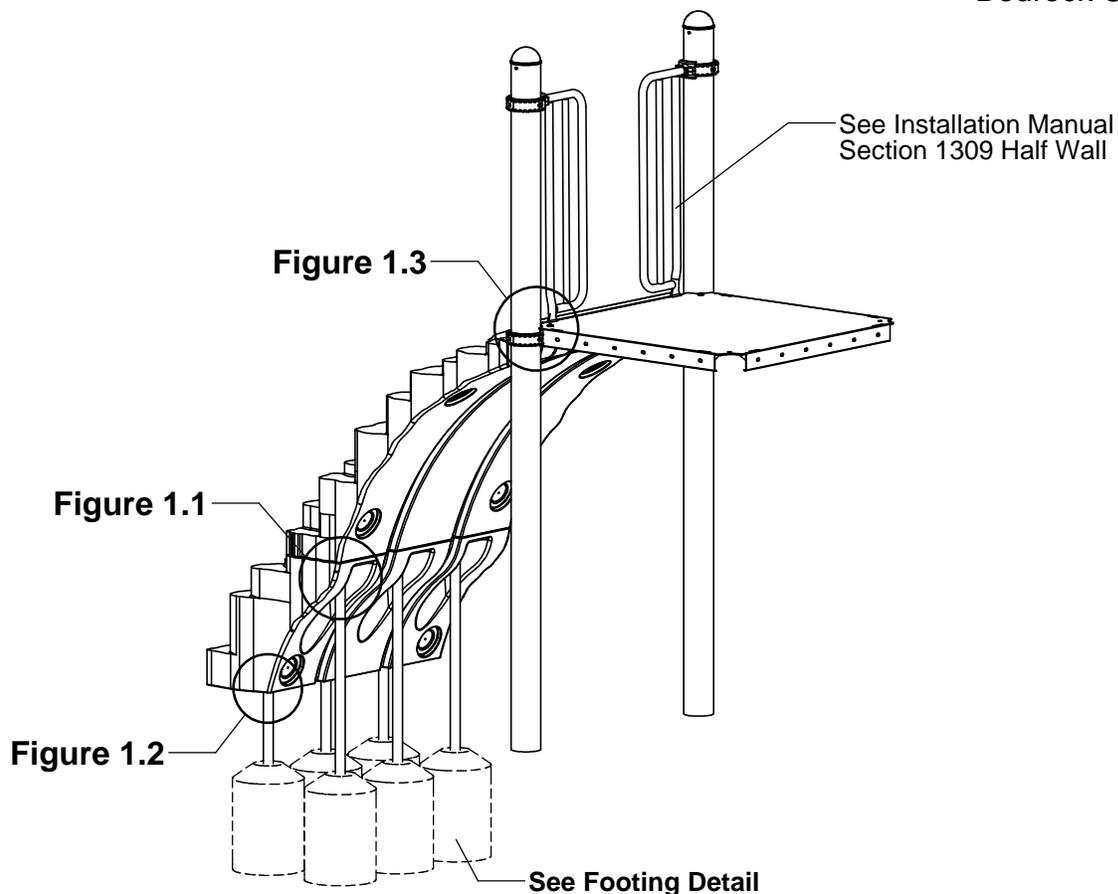
Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

IMPORTANT NOTES: Read First

- (A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.
- (B) All bolt threads protruding beyond the nut must be cut and de-burred until end is smooth to the touch. Sharp edges and/or points of any kind must be eliminated. A maximum of two threads may be exposed beyond the end of the nut.
- (C) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).
- (D) Refer to Installation Manual for 1309 Half Wall installation instructions.
- (E) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Bedrock Climber



NOTE: R5 6' deck height with extension shown. Other configurations will vary slightly, but does not affect assembly.

Step 1

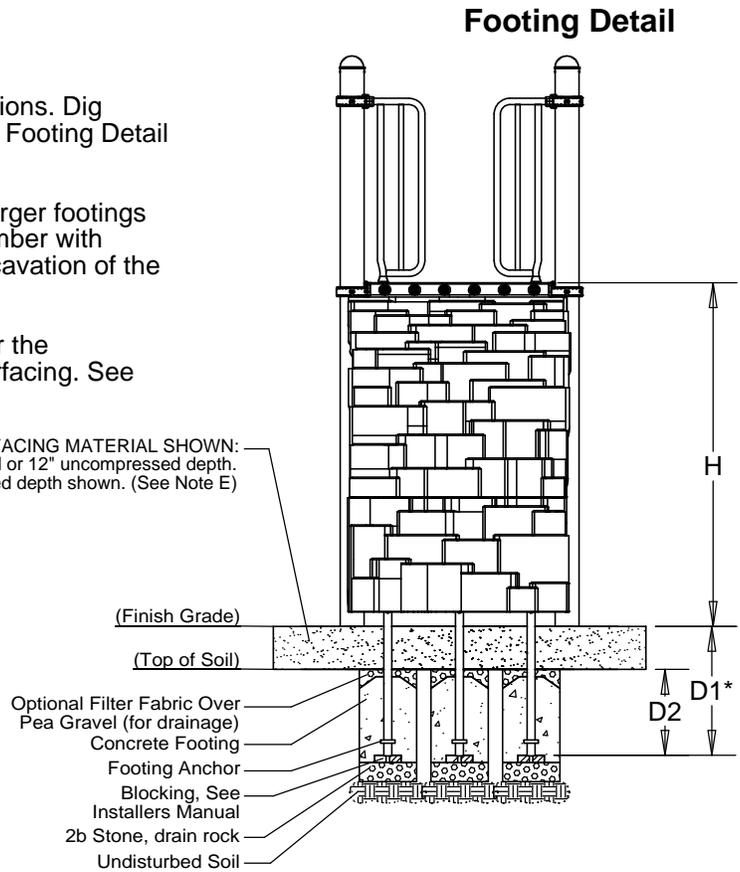
Refer to Footing Layout and mark footing hole locations. Dig appropriate number of Ø 12" footing holes. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, the 54" Bedrock Climber with Extension may require up to 6" [152mm] further excavation of the sub-grade depending on surfacing material used.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

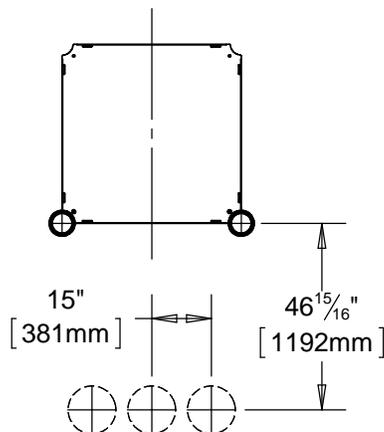
LOOSE FILL SURFACING MATERIAL SHOWN:
9" compressed or 12" uncompressed depth.
Compressed depth shown. (See Note E)

FOOTING DEPTH TABLE		
Deck Height	D1*	D2
36"	39" [991mm]	30" [762mm]
42"	33" [838mm]	24" [610mm]
48"	27" [686mm]	18" [457mm]
54"	45" [1143mm]	36" [914mm]
60"	39" [991mm]	30" [762mm]
66"	33" [838mm]	24" [610mm]
72"	27" [686mm]	18" [457mm]

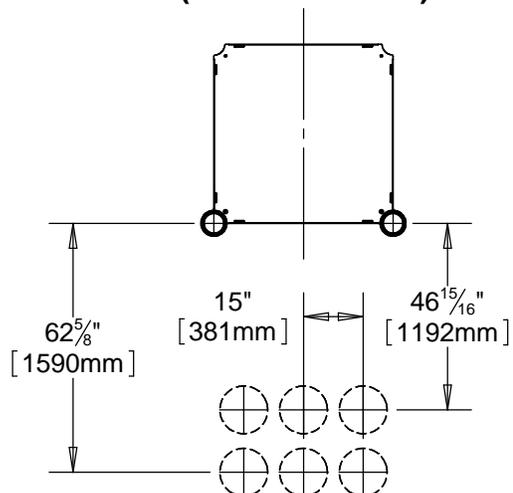


NOTE: For the 54" deck height only, remove an additional 6" [152mm] below the top of soil to accommodate the Bedrock Climber Extension.

**Top View - Footing Layout
36" - 48" Deck Heights**



**Top View - Footing Layout
54" - 74" Deck Heights
(With Extension)**



Step 2

For Bedrock 54" to 72" Extension Only

Attach Bedrock Extension and Extension Supports to Bedrock Climber as shown in Figure 1.1. (See Note A)

Step 3

Attach Climber Legs to Bedrock Climber as shown in Figure 1.2. (See Note A)

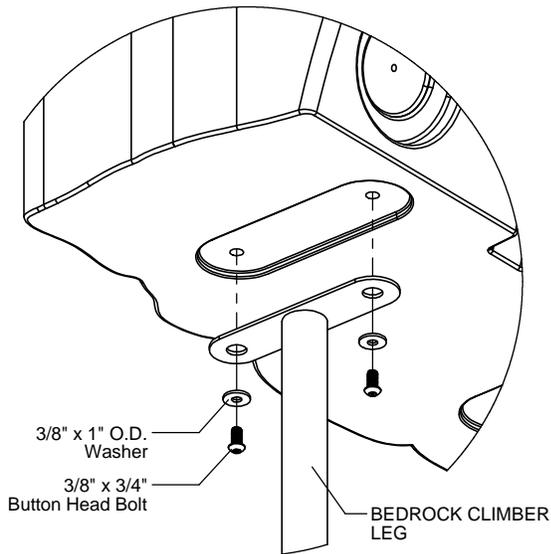


Figure 1.2

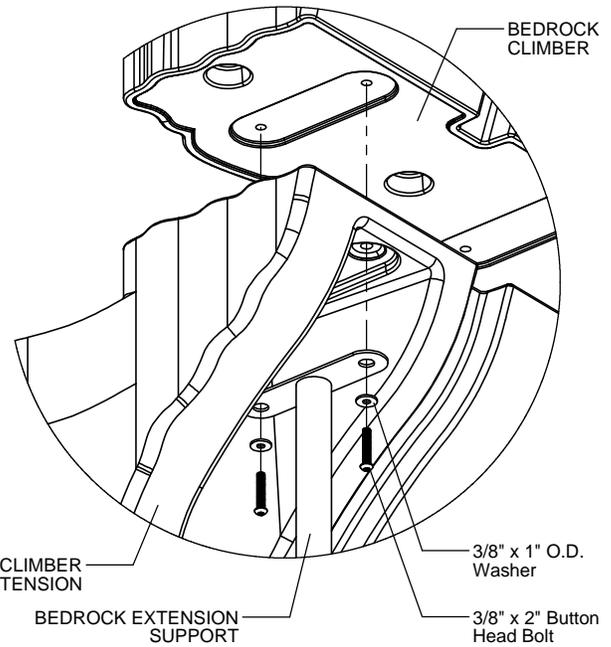


Figure 1.1

Step 4

Attach Half Walls to deck. Place Bedrock Climber into footing holes and attach Bedrock Climber to deck as shown in Figure 1.3. (See Notes A, B, C & D)

NOTE: For assembly of Half Walls use (2) 3/8" x 2-1/4" Button Head Bolts included with Bedrock Climber assembly.

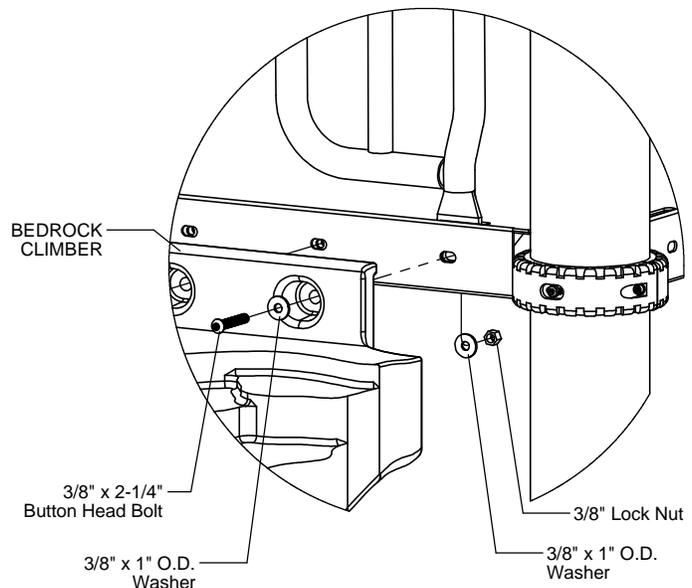


Figure 1.3

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note C)

Step 7

Place required protective surfacing under and around Bedrock Climber. (See Note E)

Parts List

BEDROCK CLIMBER 36"- 48" HEIGHT		
Part #	DESCRIPTION	QTY
DE-4722	Bedrock Climber	1
FS-1228	Bedrock Climber Leg #2	3
9103032-TR	Bolt Button Head 3/8" x 3/4"	6
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	18
9413002	Nut Lock 3/8"	6

BEDROCK CLIMBER 54" - 72" HEIGHT		
Part #	DESCRIPTION	QTY
DE-4722	Bedrock Climber	1
DE-4723	Bedrock Climber Extension	1
FS-1228	Bedrock Climber Leg #2	3
FS-1228-EXT	Bedrock Extension Support	3
9103032-TR	Bolt Button Head 3/8" x 3/4"	6
9103092-TR	Bolt Button Head 3/8" x 2"	6
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	6

Specifications

BEDROCK CLIMBER:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average double wall thickness of .250".

BEDROCK CLIMBER EXTENSION:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average double wall thickness of .250".

BEDROCK CLIMBER LEG:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 10 gauge steel plate. The Bedrock Climber Leg shall have a multi-stage baked-on powder coat finish.

BEDROCK EXTENSION SUPPORT:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 10 gauge steel plate. The Bedrock Climber Leg shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

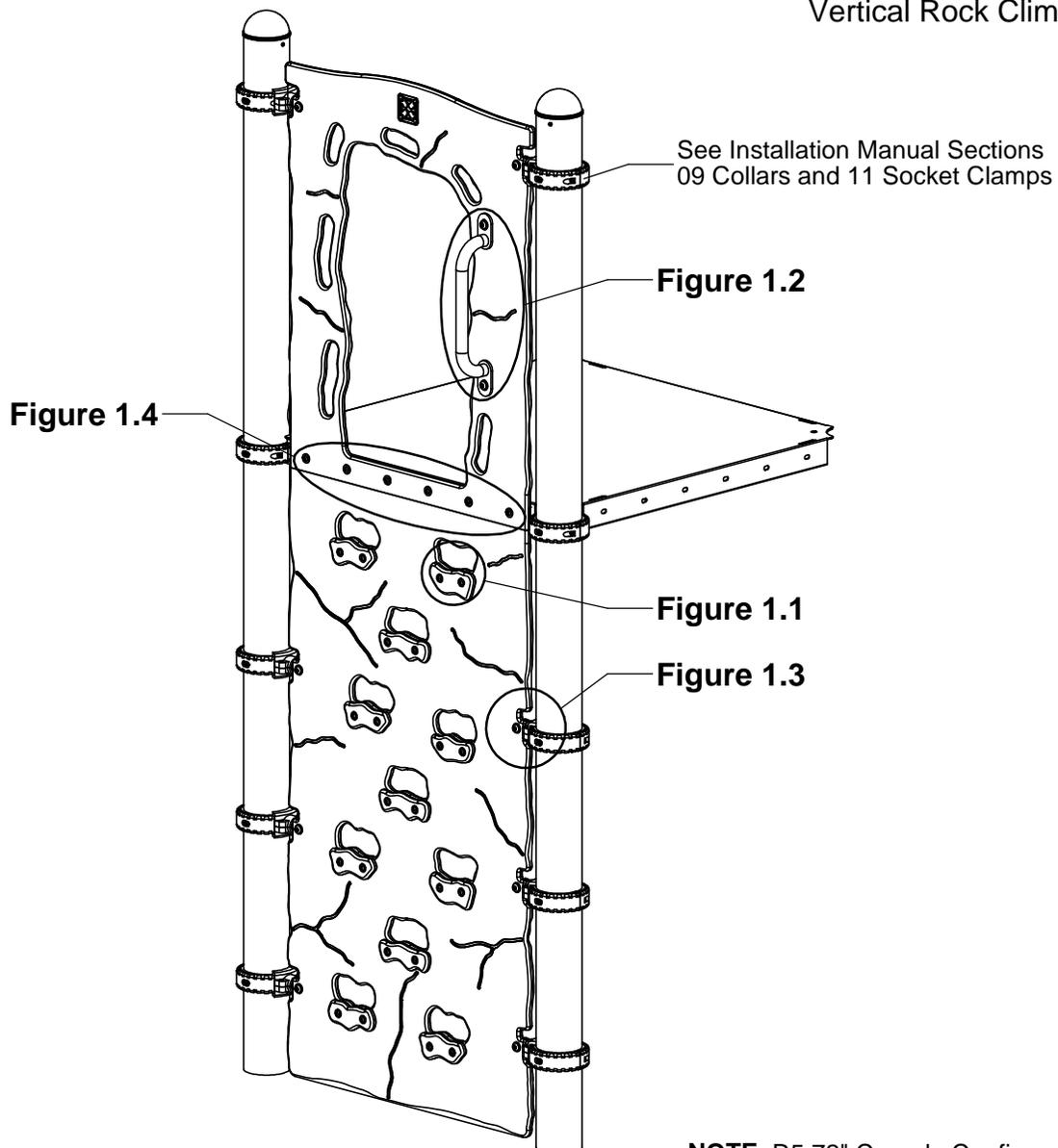


IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps assembly instructions.

FIGURE 1
Vertical Rock Climber



NOTE: R5 72" Canada Configuration shown. Other Configurations will vary slightly, but does not affect the assembly.

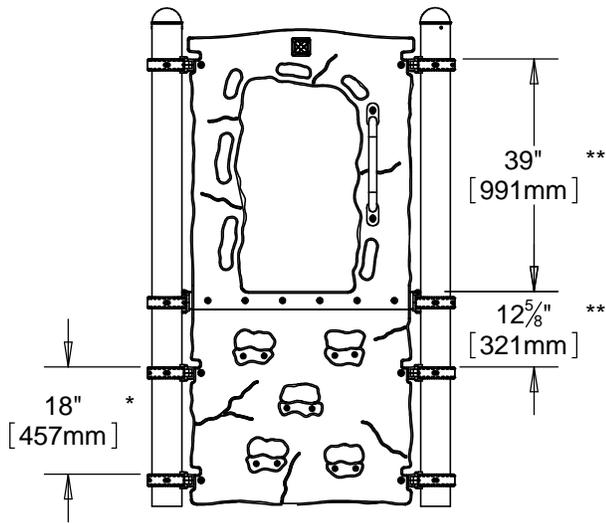


FIGURE 2
36" Vertical Rock Climber

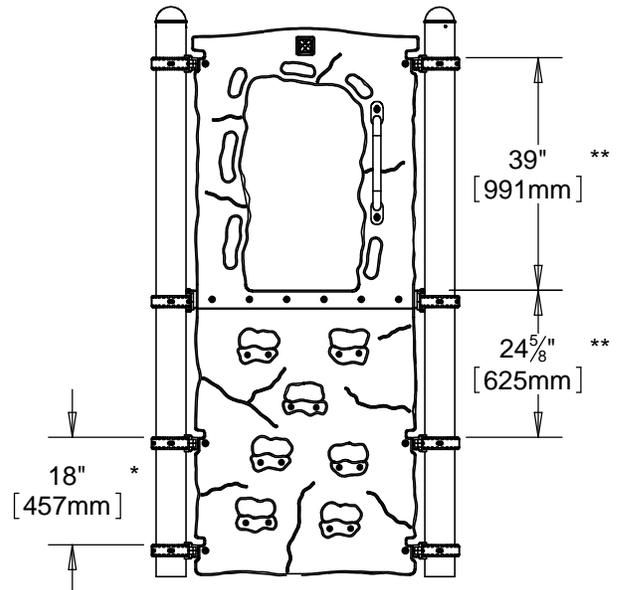


FIGURE 3
48" Vertical Rock Climber

* Top of Collar to Top of Collar
** Top of Deck to top of Collar

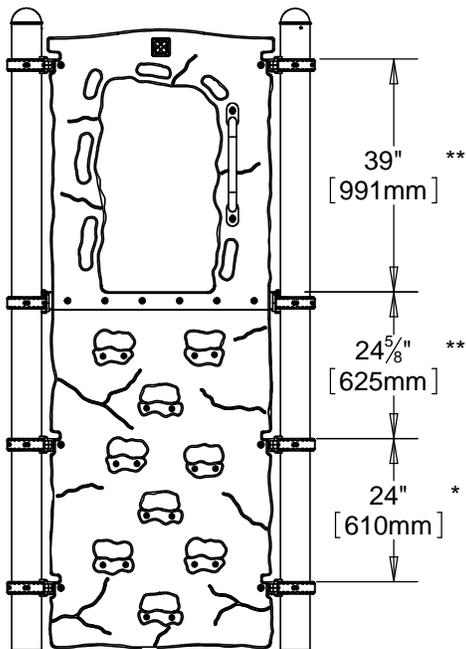


FIGURE 4
60" Vertical Rock Climber

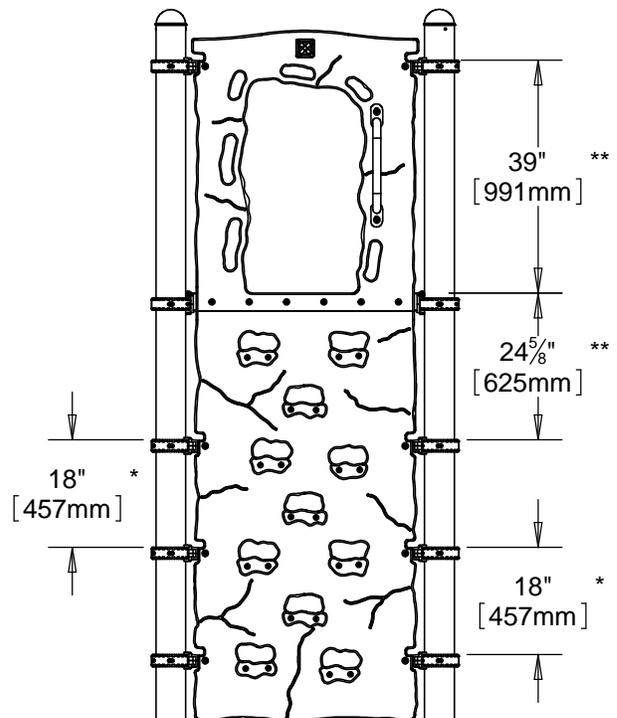


FIGURE 5
72" Vertical Rock Climber

Step 1 (Factory Assembled)

Attach the Vertical Rock Climb Grips to their corresponding slot on the Vertical Rock Climber Panel as shown in Figure 1.1. (See Note A)

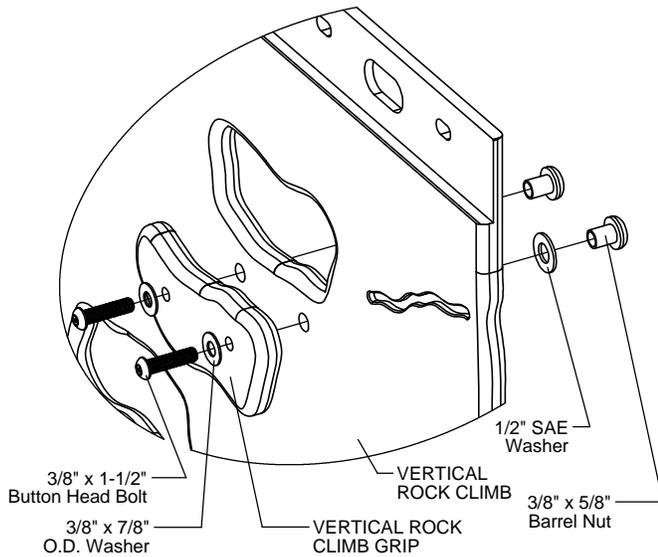


Figure 1.1

Step 2

Attach the Vertical Rock Climber Handle to the Vertical Rock Climb Entry Panel as shown in Figure 1.2. (See Note A)

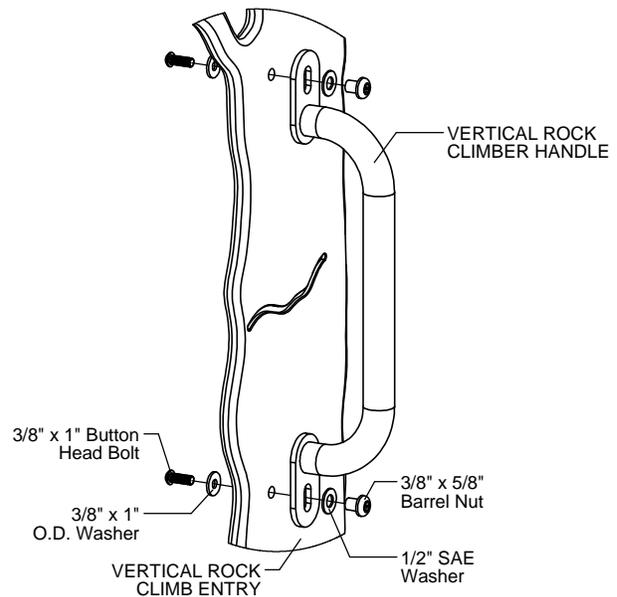


Figure 1.2

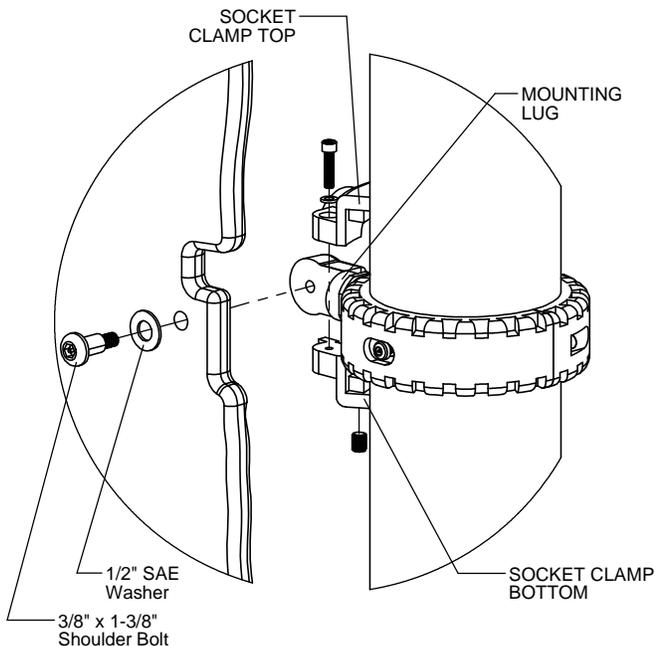


Figure 1.3

Step 3

Attach the collars at the heights shown on Page 2 for your climber height. (See Note A and Note B)

Step 4

Attach the Vertical Rock Climber Panel and Vertical Rock Climber Entry Panel to the posts as shown in Figure 1.3. (See Note A and Note B)

Step 5

Attach the Vertical Rock Climber Panel and Vertical Rock Climber Entry Panel to the Deck as shown in Figure 1.4. (See Note A)

Step 6

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

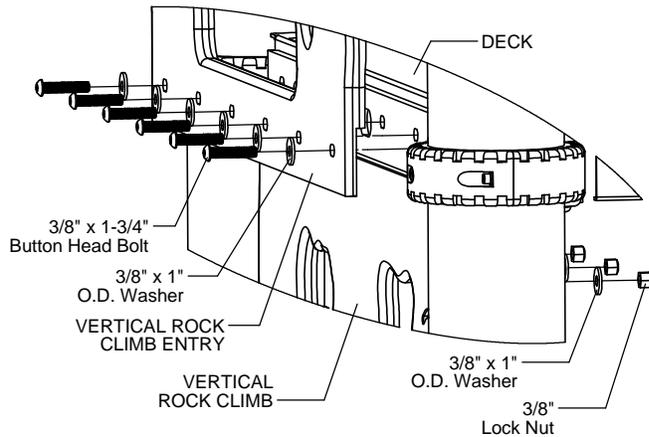


Figure 1.4

Parts List

36" Parts List		
Part #	DESCRIPTION	QTY.
FS-1237	Vertical Rock Climber Handle	1
HS-1001-R5	Socket Clamp Set R5	6
Varies	Mounting Lug	6
Varies	Vertical Rock Climb Entry	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	6
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	14
9345002	Washer Flat SAE 1/2"	8
9413002	Nut Lock 3/8"	6
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2

48" Parts List		
Part #	DESCRIPTION	QTY.
FS-1237	Vertical Rock Climber Handle	1
HS-1001-R5	Socket Clamp Set R5	6
Varies	Mounting Lug	6
Varies	Vertical Rock Climb Entry	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	6
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	14
9345002	Washer Flat SAE 1/2"	8
9413002	Nut Lock 3/8"	6
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2

36" Assembled Parts List		
Part #	DESCRIPTION	QTY.
EE-8197-G1	Vertical Rock Climb Grip - 1	1
EE-8197-G2	Vertical Rock Climb Grip - 2	1
EE-8197-G3	Vertical Rock Climb Grip - 3	1
EE-8197-G4	Vertical Rock Climb Grip - 4	2
Varies	Vertical Rock Climb 36"	1
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	10
9333042	Washer Flat 3/8" x 7/8" O.D.	10
9345002	Washer Flat SAE 1/2"	10
9443022-TR	Nut Barrel 3/8" x 5/8" BH	10

48" Assembled Parts List		
Part #	DESCRIPTION	QTY.
EE-8197-G1	Vertical Rock Climb Grip - 1	1
EE-8197-G2	Vertical Rock Climb Grip - 2	1
EE-8197-G3	Vertical Rock Climb Grip - 3	1
EE-8197-G4	Vertical Rock Climb Grip - 4	3
EE-8197-G5	Vertical Rock Climb Grip - 5	1
Varies	Vertical Rock Climb 48"	1
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	14
9333042	Washer Flat 3/8" x 7/8" O.D.	14
9345002	Washer Flat SAE 1/2"	14
9443022-TR	Nut Barrel 3/8" x 5/8" BH	14

Parts List

60" Parts List		
Part #	DESCRIPTION	QTY.
FS-1237	Vertical Rock Climber Handle	1
HS-1001-R5	Socket Clamp Set R5	6
Varies	Mounting Lug	6
Varies	Vertical Rock Climb Entry	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	6
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	14
9345002	Washer Flat SAE 1/2"	8
9413002	Nut Lock 3/8"	6
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2

60" Assembled Parts List		
Part #	DESCRIPTION	QTY.
EE-8197-G1	Vertical Rock Climb Grip - 1	1
EE-8197-G2	Vertical Rock Climb Grip - 2	1
EE-8197-G3	Vertical Rock Climb Grip - 3	3
EE-8197-G4	Vertical Rock Climb Grip - 4	3
EE-8197-G5	Vertical Rock Climb Grip - 5	1
Varies	Vertical Rock Climb 60"	1
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	18
9333042	Washer Flat 3/8" x 7/8" O.D.	18
9345002	Washer Flat SAE 1/2"	18
9443022-TR	Nut Barrel 3/8" x 5/8" BH	18

72" Parts List		
Part #	DESCRIPTION	QTY.
FS-1237	Vertical Rock Climber Handle	1
HS-1001-R5	Socket Clamp Set R5	8
Varies	Mounting Lug	8
Varies	Vertical Rock Climb Entry	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	6
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	14
9345002	Washer Flat SAE 1/2"	10
9413002	Nut Lock 3/8"	6
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2

72" Assembled Parts List		
Part #	DESCRIPTION	QTY.
EE-8197-G1	Vertical Rock Climb Grip - 1	1
EE-8197-G2	Vertical Rock Climb Grip - 2	2
EE-8197-G3	Vertical Rock Climb Grip - 3	3
EE-8197-G4	Vertical Rock Climb Grip - 4	4
EE-8197-G5	Vertical Rock Climb Grip - 5	1
Varies	Vertical Rock Climb 72"	1
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	22
9333042	Washer Flat 3/8" x 7/8" O.D.	22
9345002	Washer Flat SAE 1/2"	22
9443022-TR	Nut Barrel 3/8" x 5/8" BH	22

Specifications

VERTICAL ROCK CLIMBER HANDLE:
Shall be fabricated from Ø 1.315" 12 gauge tubing welded to 1/4" Steel tabs. Handle shall have a multi-stage baked-on powder coat finish.

VERTICAL ROCK CLIMBER PANELS:
Shall be made from high density 3/4" thick hot extruded polyethylene sheet plastic specially formulated for optimum UV stability and color retention.

MOUNTING LUGS:
Shall be precision die-cast from a high-strength aluminum alloy. The Mounting Lugs have a multi-stage baked-on powder coat finish.

HARDWARE:
Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

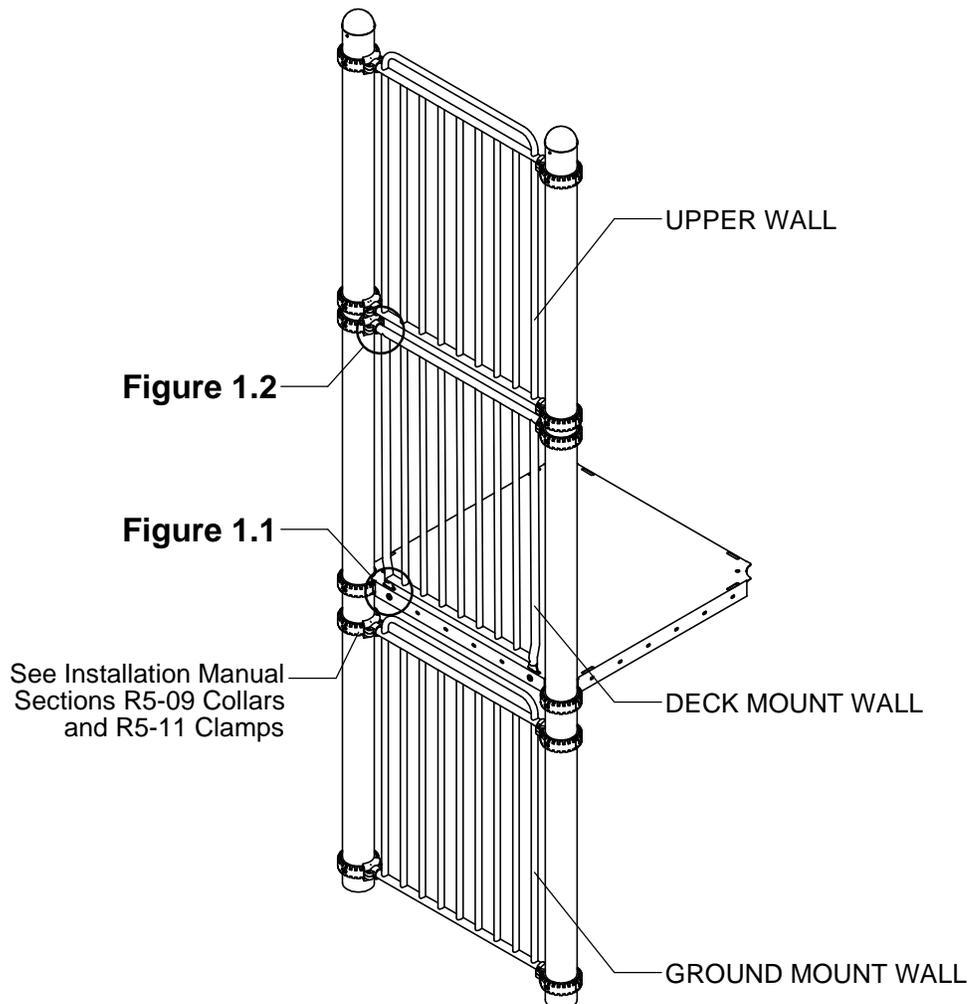
(B) Refer to Installation Manual for R5-09 Collars and R5-11 Socket Clamps assembly instructions.

(C) All gaps created (e.g. between walls, between wall and deck, between wall and roof, etc.) must be less than 3-1/2" [89mm] or greater than 9" [229mm].

(D) Collar heights will vary with different walls. Use wall to locate collar heights.

(E) These instructions apply for all configurations of R5 Walls, Short Walls, and Upper Walls.

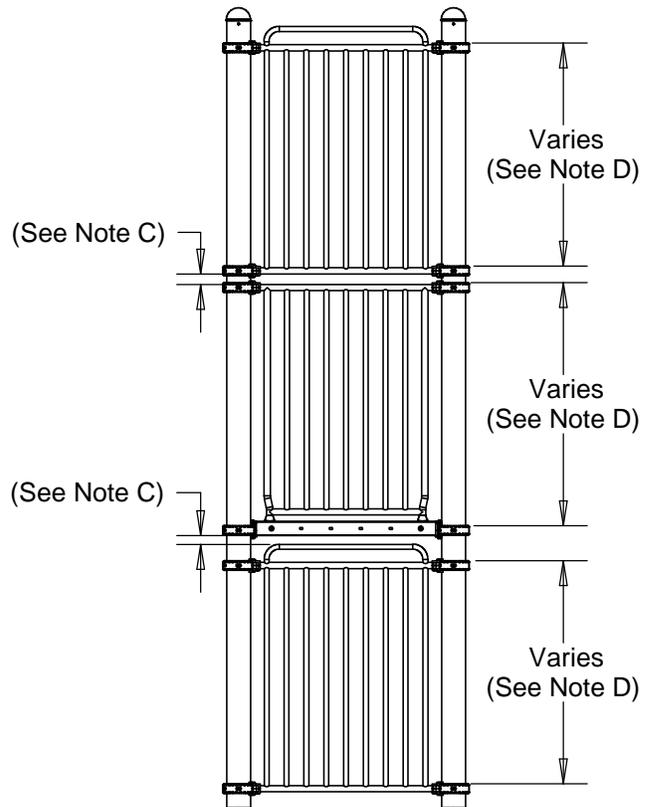
FIGURE 1
Steel Bar Wall Assembly



Step 1

Use the Wall to locate and attach collars.
Refer to Elevation View for notes.

ELEVATION VIEW



Step 2 (For Deck Mount Only)

Attach Wall to Deck as shown in Figure 1.1.
(See Note A)

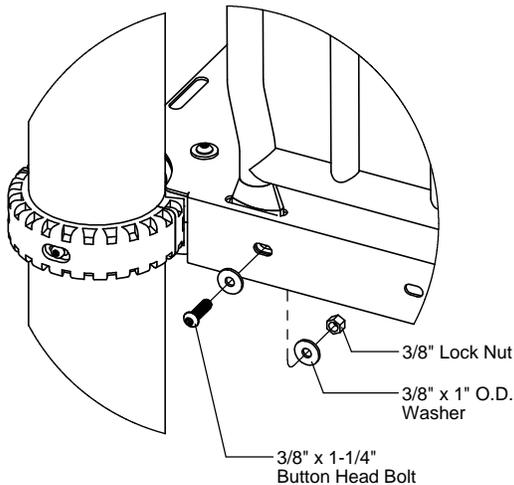


Figure 1.1

Step 3

Attach Wall to collars as shown in Figure 1.2.
(See Note B)

Step 4

Fully tighten all fasteners according to the
"TIGHTENING TORQUE FOR HARDWARE"
section of the Installation Manual.

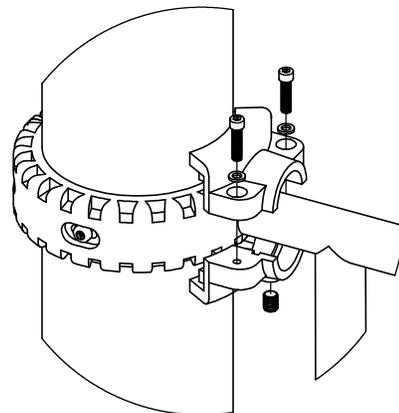


Figure 1.2

Specifications

R5 STEEL BAR WALL:

Shall be fabricated by welding 1.029" O.D. 14 gauge steel vertical rails between 1.315" O.D. 12 gauge steel horizontal rails. Ground and Upper walls will have a 1.029" O.D. 14 gauge top rail. The R5 Steel Bar Wall will have a multi-stage baked-on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

DECK MOUNT		
Part #	DESCRIPTION	QTY
HS-1001-R5	Socket Clamp Set R5	2
Varies	R5 Steel Bar Wall	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

GROUND / UPPER MOUNT		
Part #	DESCRIPTION	QTY
HS-1001-R5	Socket Clamp Set R5	4
Varies	R5 Steel Bar Wall	1

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

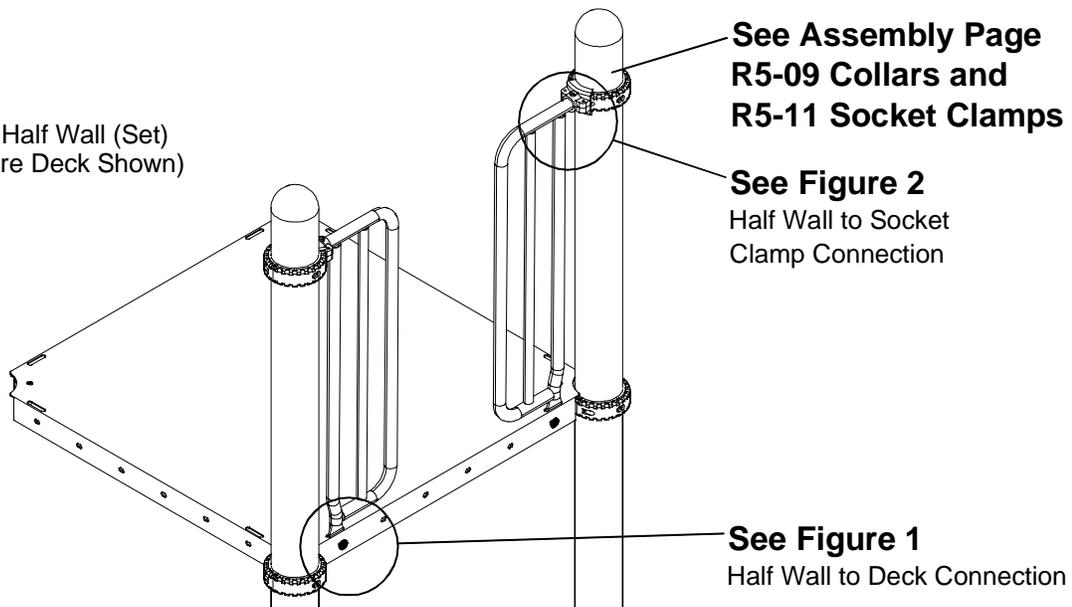
(A) Use liquid thread lock (such as Loctite[®]) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars and R5-11 Socket Clamps.

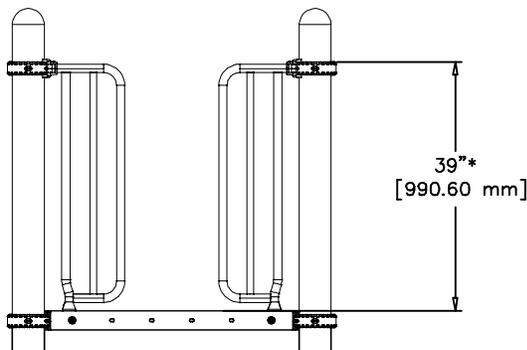
(C) Collar Locations: The Collar is to be placed 39" from top of the collar to top of the deck.

Assembly Views

Standard Half Wall (Set and Square Deck Shown)

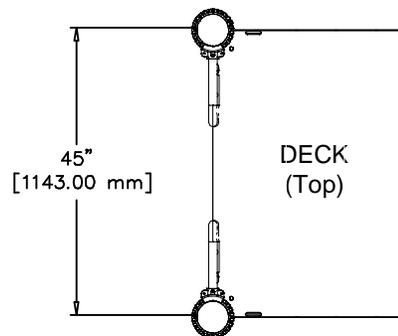


*Dimension given is from Top of Deck to Top of Collar.



Elevation

Front View



Footing Layout

Top View



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Rev G

Figure 1

Half Wall to Deck Connection

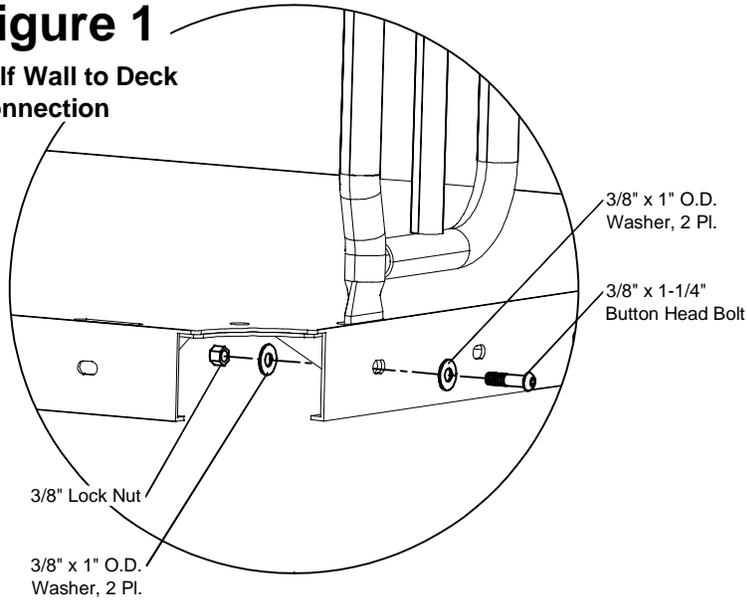
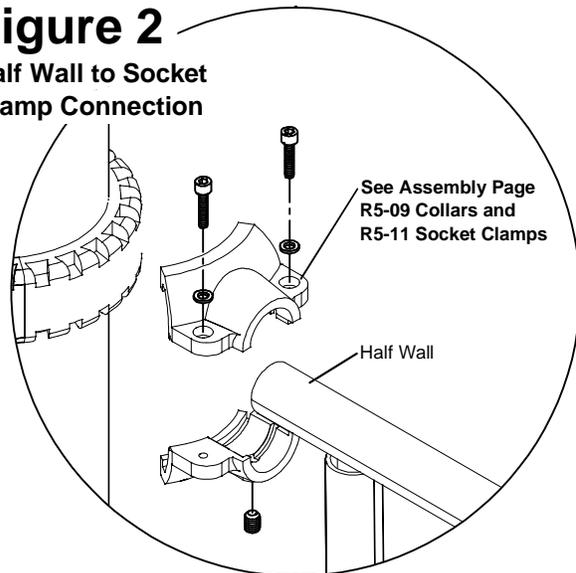


Figure 2

Half Wall to Socket Clamp Connection



Parts List

(1) Half Wall (Handle)

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
-VARIES-	Half Wall	1
See Pg. R5-11	Socket Clamp Assembly	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	1
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9413002	Nut Lock 3/8"	1

Half Wall Options

<u>PART #</u>	<u>DESCRIPTION</u>
FS-1309-R	Half Wall R5
FS-1309-R-TRNFR	Half Wall Transfer R5
FS-1309-RADA	Half Wall ADA Steps R5

Installation

Step 1.

Locate and mark the position of the Collars on the Support Posts. Refer to Elevation View for Collar locations. See Note C. See also Assembly Page R5 - 09 Collars for hardware type and orientation.

Step 2.

Loosely attach the Half Wall to the Deck. Verify left or right hand location on Top View of structure prior to installation. Refer to Figure 1 for hardware type and orientation.

Step 3.

Loosely attach the Half Wall to the Post Collars using the Socket Clamps. Refer to Figure 2 for hardware type and orientation. See also Assembly Page R5-11 Socket Clamps for additional hardware details.

Step 4.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Specifications

HALF WALL R5:

Shall be constructed of 1.315" O.D., 12 gauge steel tubing outer rails with 1.029" O.D., 14 gauge steel tubing welded vertically. The Half Wall may also have welded mounting tabs and/or plates. The Half Wall R5 has a multi-stage baked on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

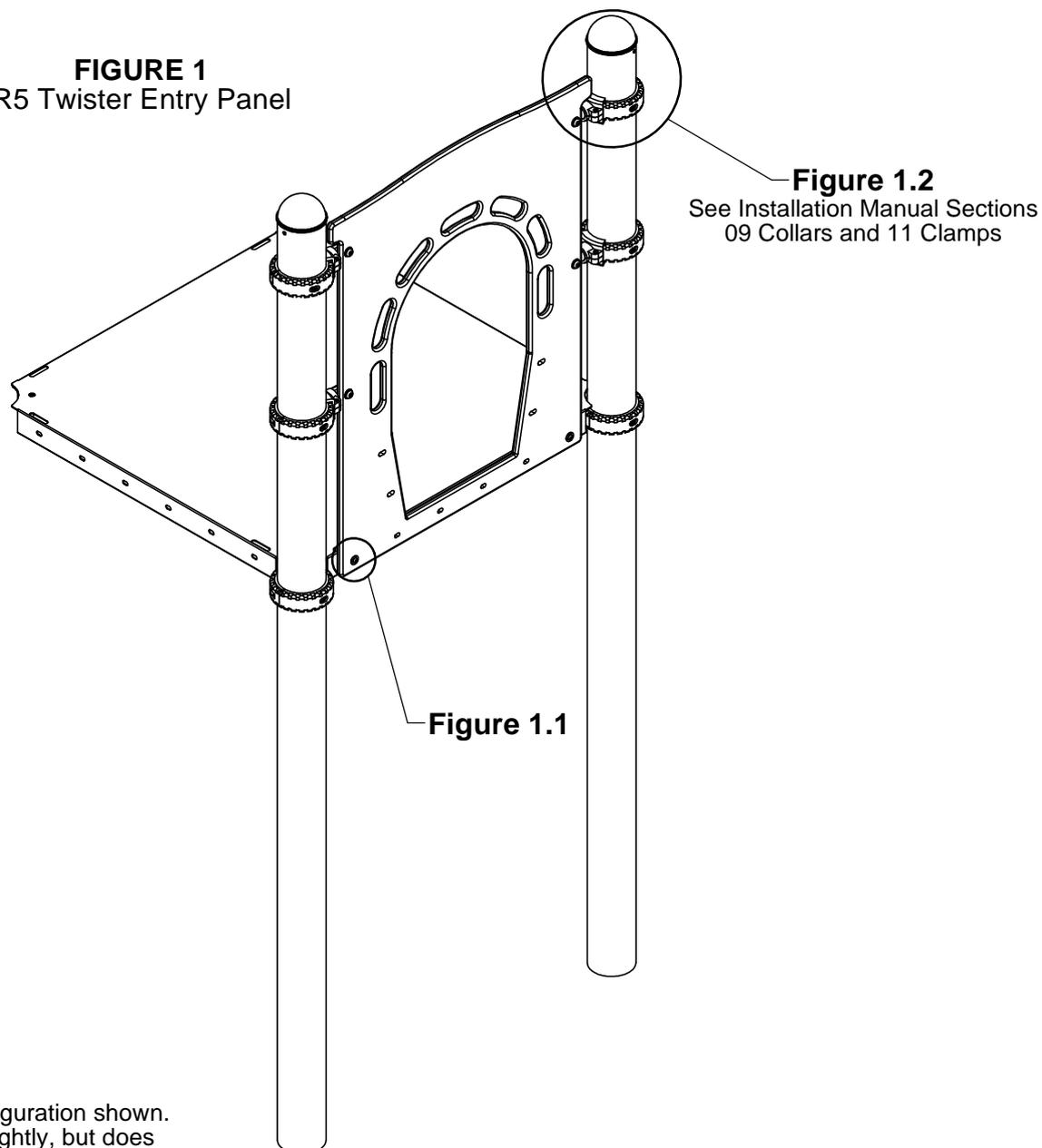


IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps assembly instructions.

FIGURE 1
R5 Twister Entry Panel



NOTE: R5 Configuration shown.
R3.5 will vary slightly, but does not affect the assembly.

Step 1

Attach collars at heights shown in Figure 2.
(See Note B)

* Height shown from top of deck
to top of collar.

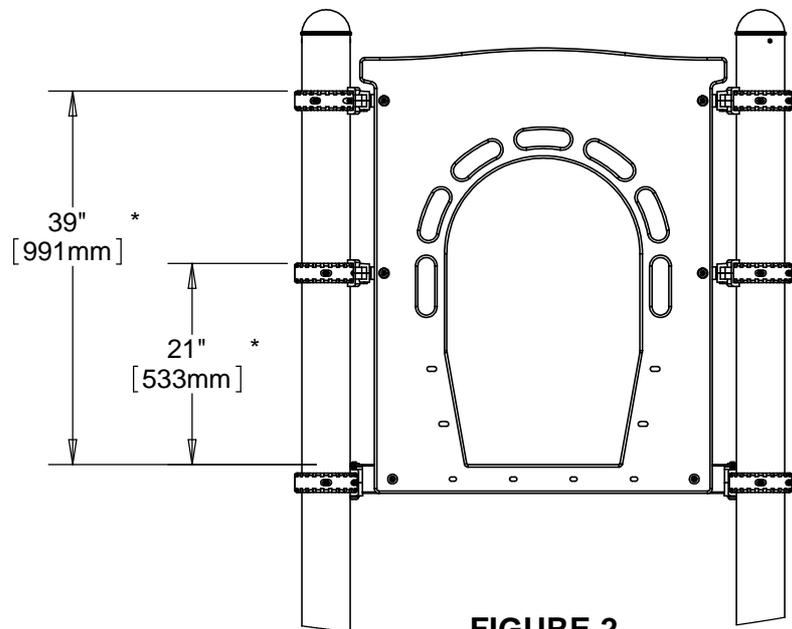


FIGURE 2

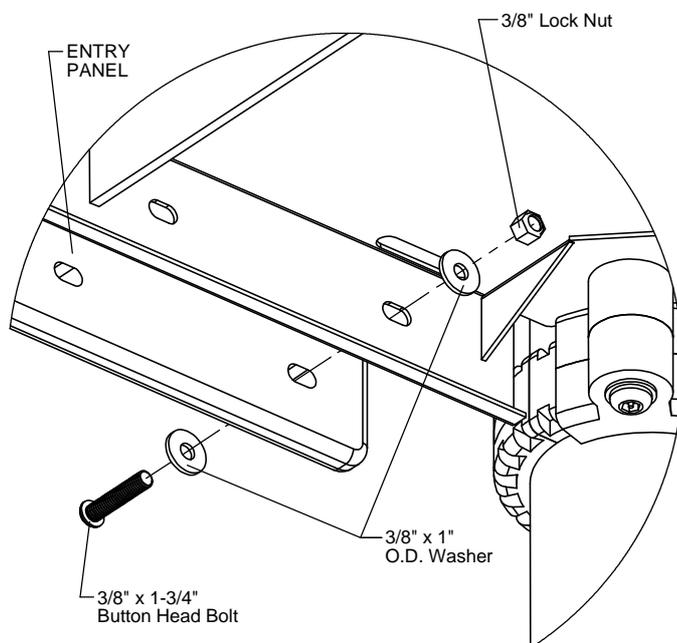


Figure 1.1

Step 2

Attach Entry Panel to deck as shown in Figure 1.1.
(See Note A)

Step 3

Attach Entry Panel to collars as shown in Figure 1.2.
(See Notes A and B)

Step 4

Fully tighten all fasteners according to the
"TIGHTENING TORQUE FOR HARDWARE" section
of the Installation Manual.

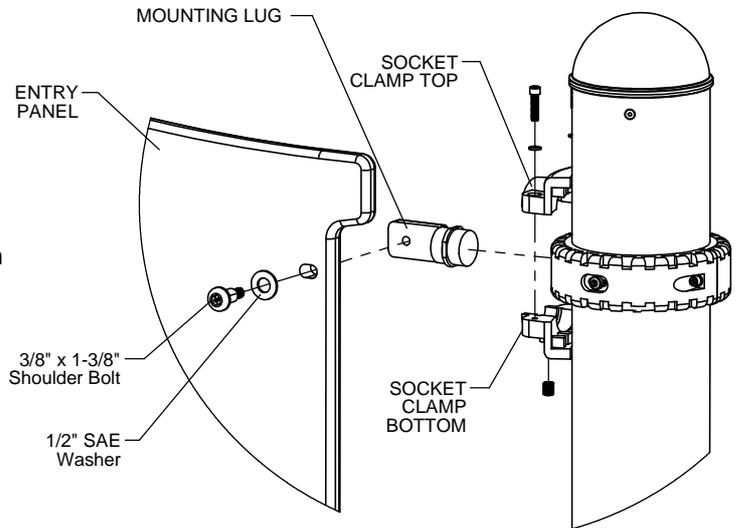


Figure 1.2

Parts List

R5-1316 - Twister Entry Panel R5		
Part #	DESCRIPTION	QTY.
EF-7091	Twister Entry Panel	1
GF-7007	Mounting Lug R5	4
HS-1001-R5	Socket Clamp Set R5	4
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	2
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9345002	Washer Flat SAE 1/2"	4
9413002	Nut Lock 3/8"	2

R3.5-1316 - Twister Entry Panel R3.5		
Part #	DESCRIPTION	QTY.
EG-8196	Twister Sit Down Panel R3.5	1
GG-8113	Mounting Lug R3.5	4
HS-1001-R35	R3.5 Socket Clamp Set	4
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	2
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9345002	Washer Flat SAE 1/2"	4
9413002	Nut Lock 3/8"	2

Specifications

TWISTER ENTRY PANEL:

Shall be made from high density 3/4" thick hot extruded polyethylene sheet plastic specially formulated for optimum UV stability and color retention.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

IMPORTANT NOTES: Read First

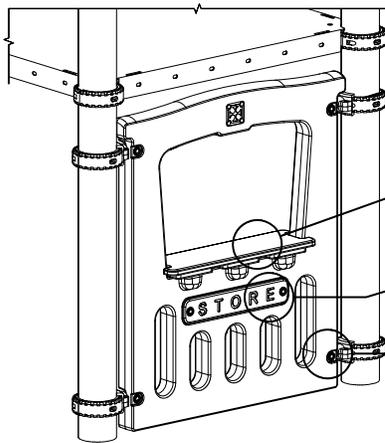
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars and R5-11 Socket Clamps.

(C) Collar Locations : Collars measure 33-5/8" from top of lower collar to top of upper collar.
Under Deck Installation: Make sure distance between the bottom of the deck and the top of the panel(s) is less than 3-1/2" or greater than 9" to avoid head and neck entrapment.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.

Assembly View



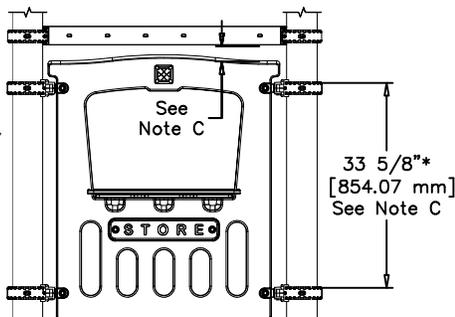
See Assembly Page R5-09 Collars and R5-11 Socket Clamps

See Figure 1
Counter Set to Panel Connection

See Figure 2
"STORE" Plaque to Panel Connection

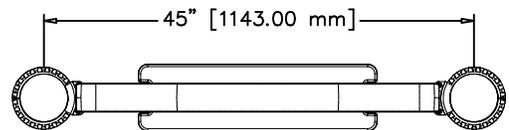
See Figure 3
Mounting Lug Connection

*Dimension given is from Top of Lower Collar to Top of Upper Collar



Elevation

Front View



Post Spacing

Top View



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Rev J

Figure 1

Counter Set to Panel Connection

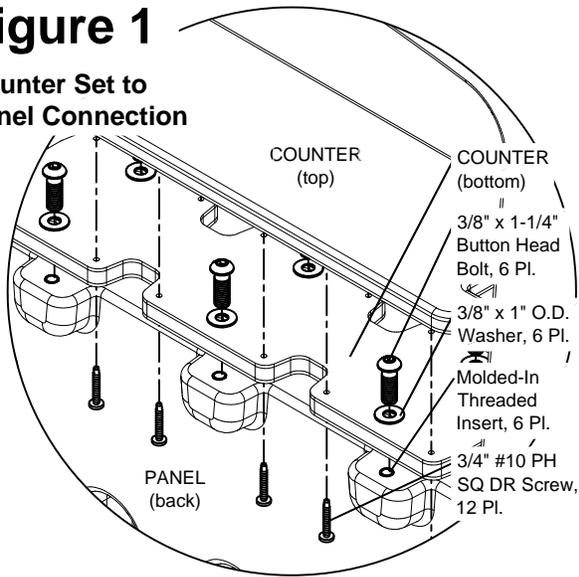


Figure 2

"STORE" Plaque to Panel Connection

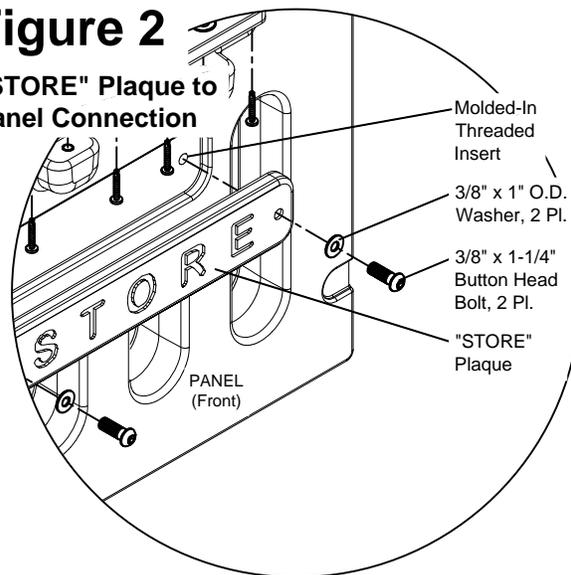
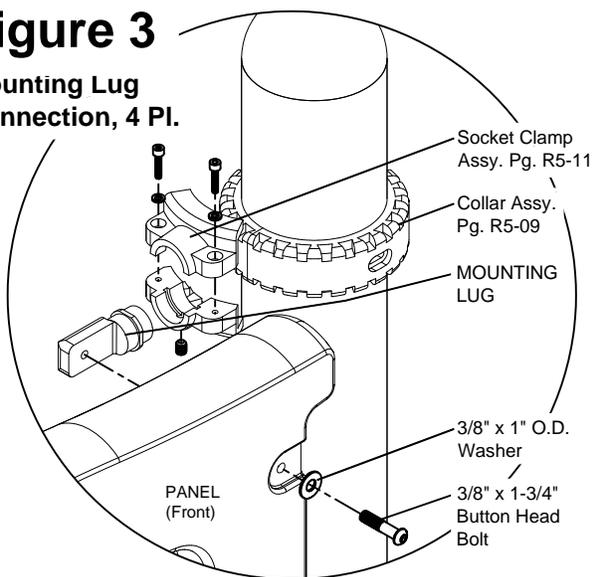


Figure 3

Mounting Lug Connection, 4 Pl.



Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
004785	Panel Store "Roto" Set (incl. Counter and Plaque)	1 Set
007007	Mounting Lug R5	4
123010	Panel Store Roto R5	1
See Pg. R5-11	Socket Clamp Assy.	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	8
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	4
9333002	Washer Flat 3/8" x 1" x .100 thk	12
9251032	Screw SQ #10 x 3/4" DR PH	12

Installation

Step 1.

Locate and mark the position of the Collars on the Support Posts. See Note C. Refer to Assembly Page R5-09 Collars for additional details and hardware.

Step 2.

Attach Counter Set to Panel. Refer to Figure 1 for hardware type and orientation. Attach "STORE" Plaque to front of Panel. Refer to Figure 2 for hardware type and orientation.

Step 3.

Loosely attach the top of the Panel to the Collars using Socket Clamps and Mounting Lugs. Refer to Figure 3 for hardware type and orientation. See also Assembly Page R5-11 Socket Clamps.

Step 4.

Repeat Step 3 to attach bottom of Panel to Collars.

Step 5.

Check distance between top of Panel and bottom of Deck to make sure it doesn't create an Entrapment. See Note C for details.

Step 6.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 7.

Place appropriate compliant protective surfacing under and around Store Panel Roto. See Note D.

Specifications

STORE PANEL ROTO R5:

Shall be constructed of UV-stabilized, rotationally molded, Linear Low Density Polyethylene with an average single wall thickness of 1/4". The Panel (ROTO) shall be 38" x 43-1/2" x 3" deep.

COUNTER SET & "STORE" PLAQUE:

Shall be fabricated using 3/4" High Density Polyethylene hot-extruded plastic.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

MOUNTING LUGS:

Shall be precision die-cast from a high-strength aluminum alloy. The Mounting Lugs have a multi-stage baked-on powder coating.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

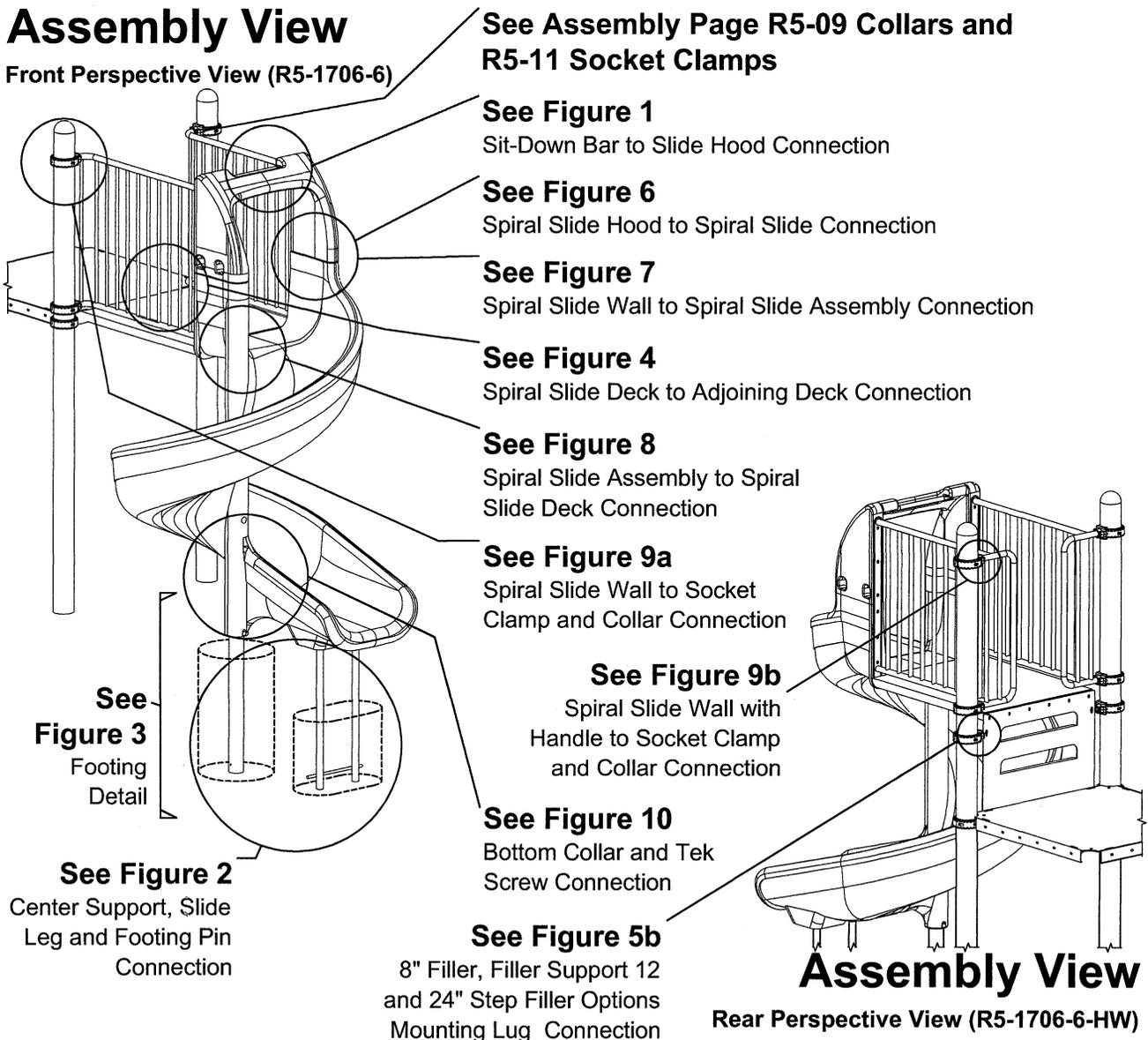
(B) Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars, and R5-11 Socket Clamps.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.

Assembly View

Front Perspective View (R5-1706-6)



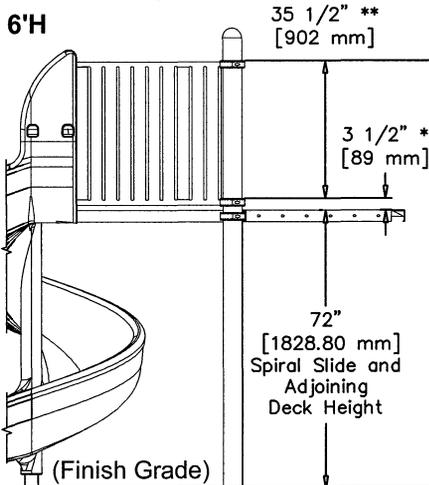
Elevation Views - Side Views

* Dimension given is from Top of Deck to Top of Collar

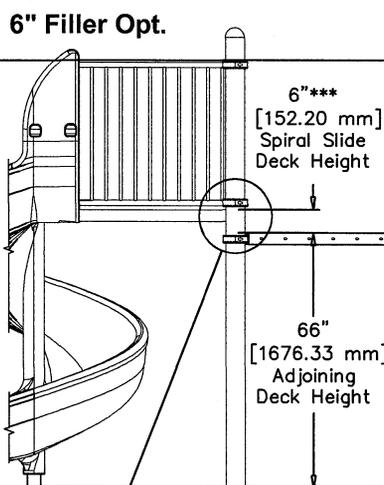
** Dimension given is from Top of Lower Collar to Top of Upper Collar

*** Dimension given is from Top of Deck to Top of Deck

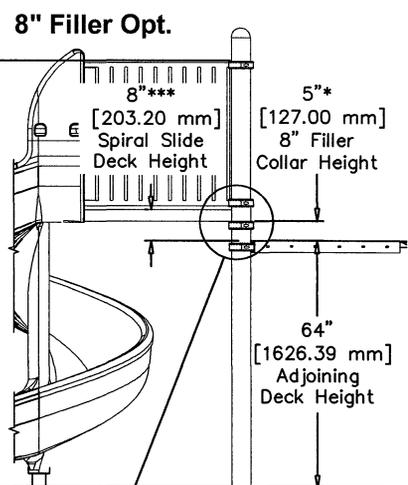
R5-1706-6 Spiral Slide 6'H



Spiral Slide 6'H w/ 6" Filler Opt.



Spiral Slide 6'H w/ 8" Filler Opt.



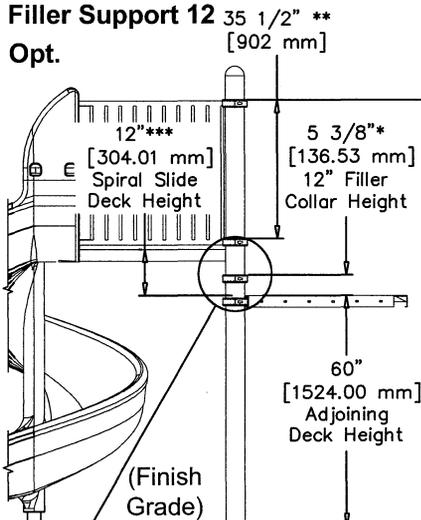
See Figure 5a

Spiral Slide Deck to Adjoining Deck Filler Option Connection

See Figure 5b

8" Filler Option Mounting Lug Connection

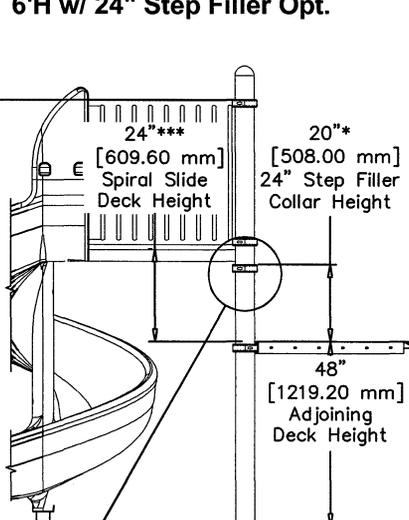
Spiral Slide 6'H w/ Filler Support 12" Opt.



See Figure 5b

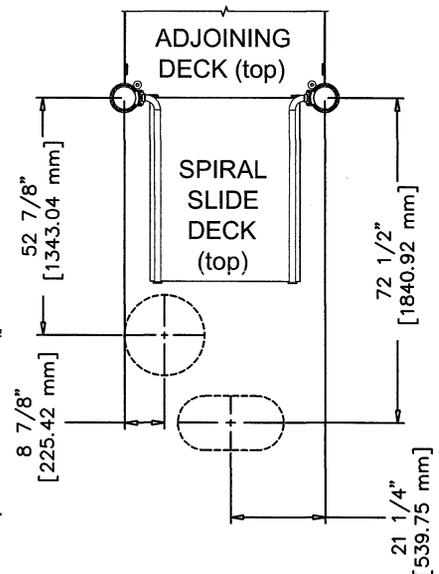
12" Filler Option Mounting Lug Connection

R5-1706-6-HW Spiral Slide 6'H w/ 24" Step Filler Opt.



See Figure 5b

24" Step Filler Option Mounting Lug Connection



Footings Layout

Top View (Spiral Slide Assembly hidden for clarity)

Figure 1

Sit-Down Bar to Spiral Slide Hood Connection

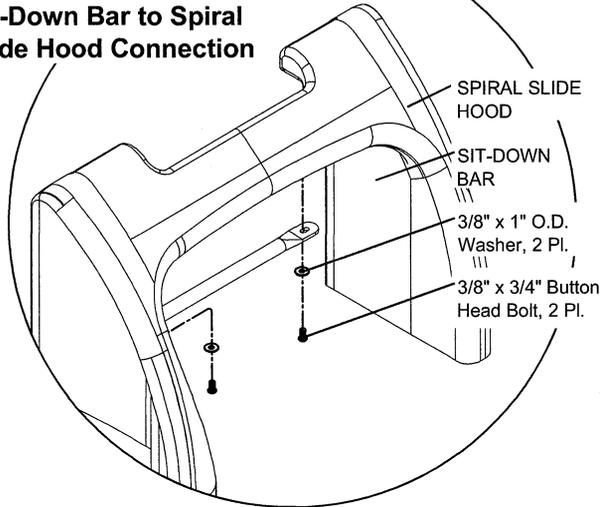


Figure 2

Center Support, Slide Leg and Footing Pin Connection

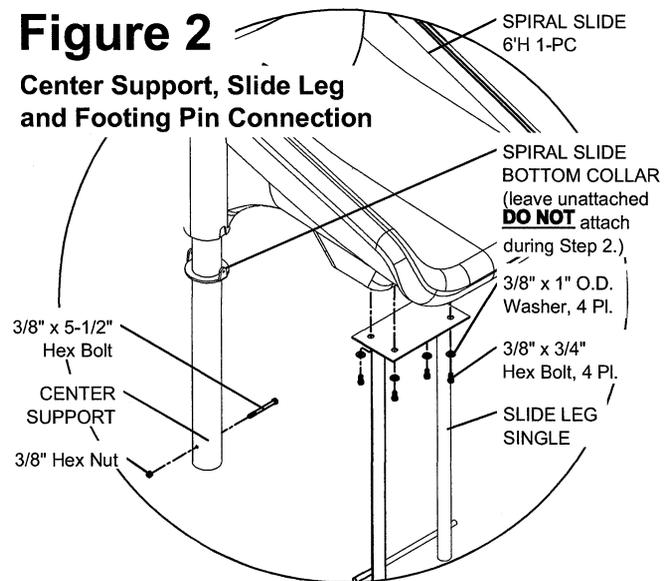
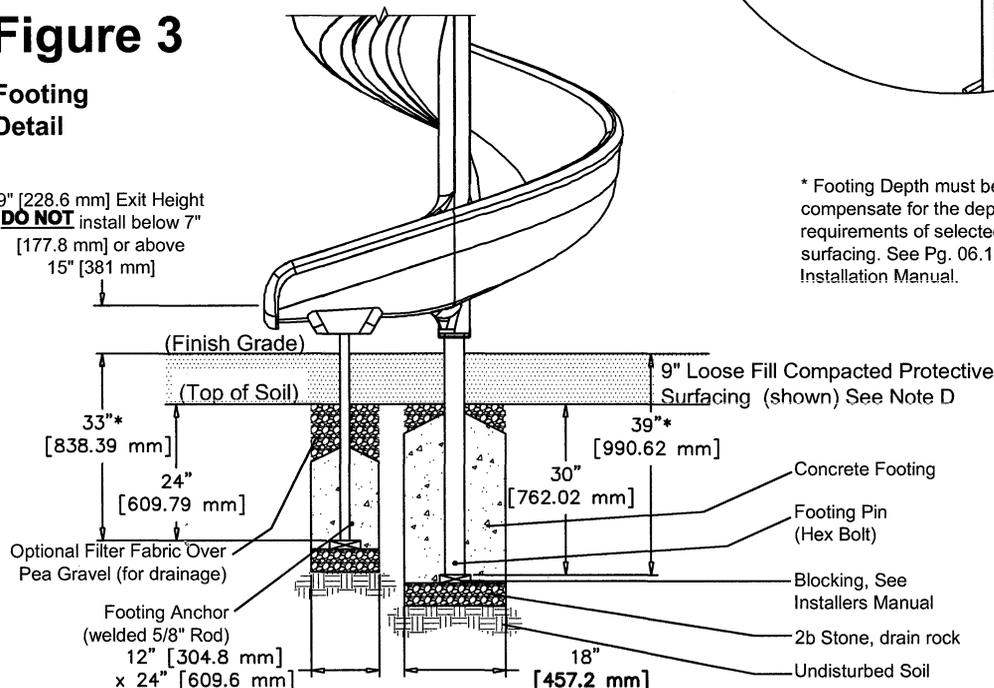


Figure 3

Footing Detail

9" [228.6 mm] Exit Height
DO NOT install below 7"
 [177.8 mm] or above
 15" [381 mm]



* Footing Depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Pg. 06.1 of the Installation Manual.

Figure 4

Spiral Slide Deck to Adjoining Deck Connection

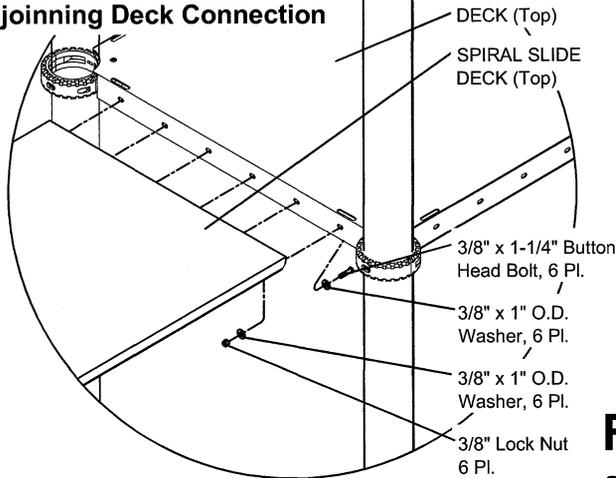


Figure 5a

Spiral Slide Deck to Adjoining Deck Filler Option Connection

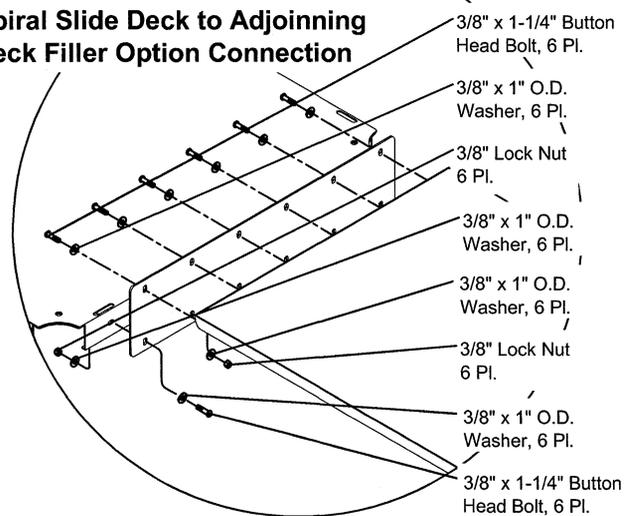
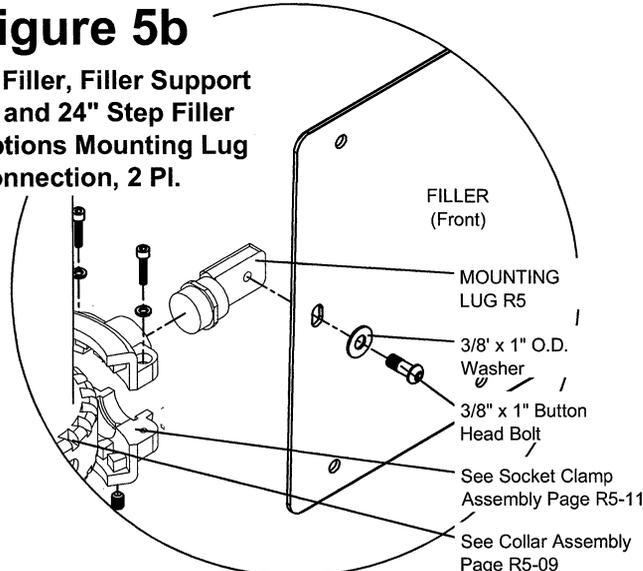


Figure 5b

8" Filler, Filler Support 12 and 24" Step Filler Options Mounting Lug Connection, 2 Pl.



<p>NOTE: For Filler Options Refer to Page 2 for Collar Locations</p>	<p>Filler Support 12</p> <p>Part# 007047</p>
	<p>6" Filler</p> <p>Part# 007085</p>
<p>8" Filler</p> <p>Part# 007272</p>	<p>24" Step Filler (Half Walls Required)</p> <p>Part# 007221</p>

Figure 6

**Spiral Slide Hood to
Spiral Slide Connection**

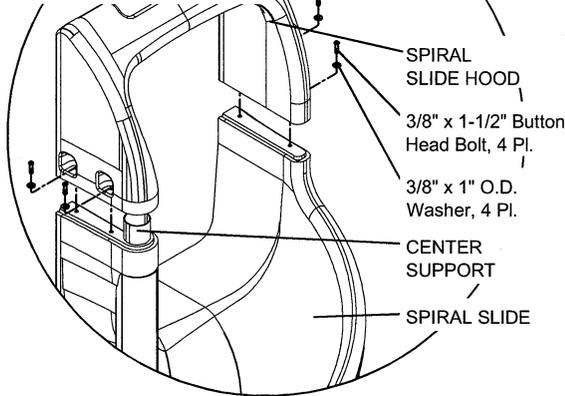


Figure 7

**Spiral Slide Wall to Spiral
Slide Assembly Connection**

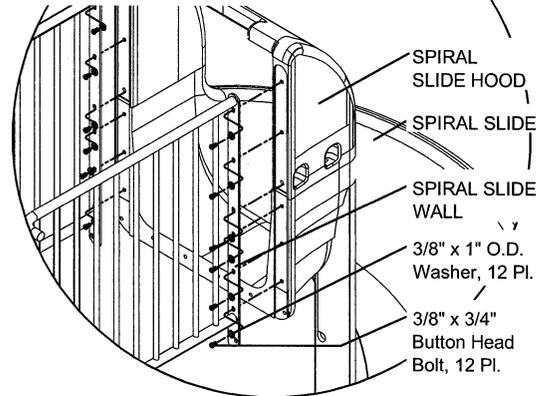


Figure 8

**Spiral Slide Assembly to
Spiral Slide Deck Connection**

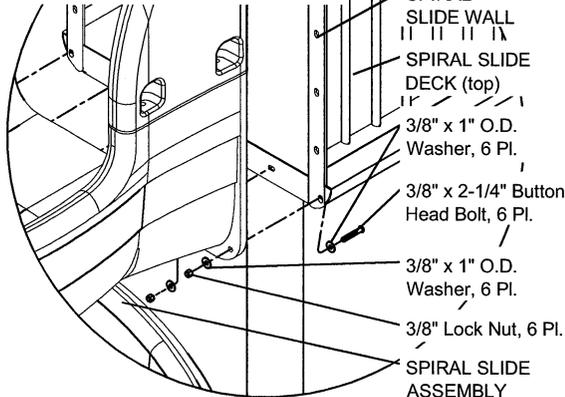


Figure 9a

**Spiral Slide Wall to Socket Clamp
and Collar Connection, 4 Pl.**

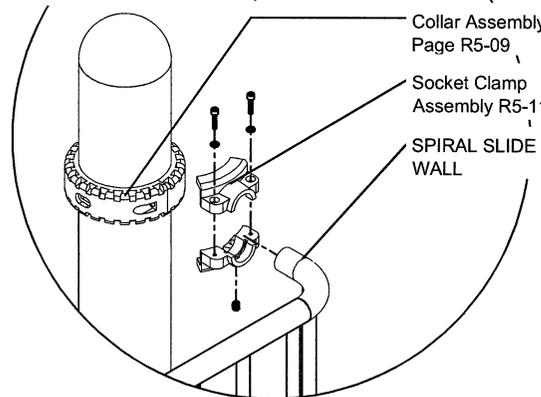


Figure 9b

**Spiral Slide Wall with Handle to Socket
Clamp and Collar Connection, 4 Pl.**

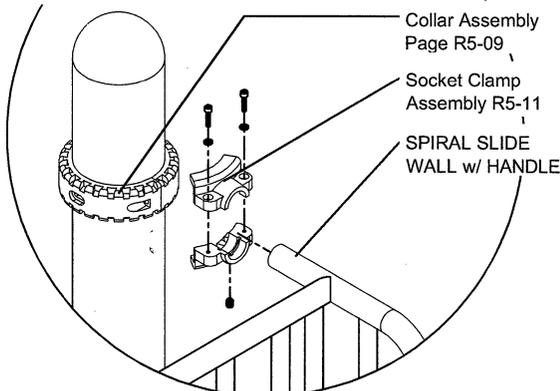
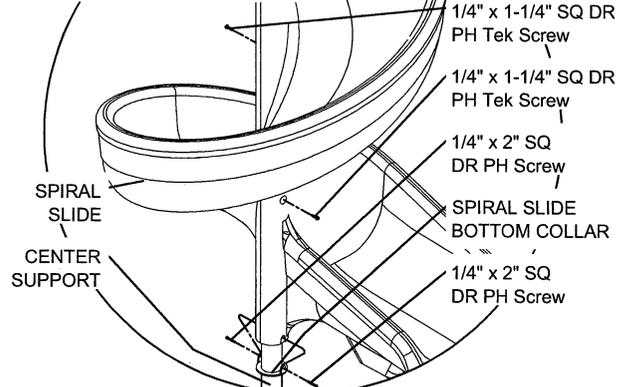


Figure 10

**Bottom Collar and Tek
Screws Connection**



Parts List - R5-1706-6

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
004487	Spiral Slide Deck #3	1
004490	Spiral Slide Bottom Collar	1
116704	Slide Spiral Hood	1
116724	Slide Spiral 6'H 1-PC	1
672611-11	Support Post 3.5" O.D. x 132"	1
See Pg. R5-11	Socket Clamp Assy.	4
FS-1701	Slide Leg Single	1
FS-1706-R	Spiral Slide Wall R5	1 Set
9103032-TR	Bolt Button Head 3/8" x 3/4"	12
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	6
9123032	Bolt Hex 3/8" x 3/4"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9221092	Screw 1/4" x 2" SQ DR PH	2
9271060	Screw Tek 1/4" x 1-1/4" PH SQ DR	2
9333002	Washer Flat 3/8" x 1" x .100 thick	44
9413002	Nut Lock 3/8"	12
9483602	Nut Hex 3/8"	1

Specifications

SLIDE SPIRAL 6'H 1-PC with HOOD:

Shall be constructed of UV-stabilized, rotationally molded, Linear Low Density Polyethylene with an average single wall thickness of 1/4" with a molded-in footing base. The Slide Spiral 6'H 1-PC with Hood shall have a slide way bed average of approximately 23" wide with 13" high side walls. One-Piece Spiral Slides are designed to attach to a 6'H deck or with a filler option to a lower height deck up to 24" below the Slide deck height of 6'H.

SPIRAL SIT-DOWN BAR KC:

Shall be made from \varnothing 1.029", 14 gauge steel tubing. The Spiral Sit-Down Bar KC has a multi-stage baked-on powder coat finish.

SPIRAL SLIDE BOTTOM COLLAR:

Shall be precision laser-cut from 1/4" thick sheet steel. The Spiral Slide Bottom Collar shall be zinc coated and have a multi-stage baked-on powder coat finish.

SPIRAL SLIDE WALL R5:

Shall be constructed of \varnothing 1.315", 12 gauge steel tubing top and bottom rails with welded \varnothing 1.029", 14 gauge steel tubing vertical rungs. A 1/4" steel wall bracket is welded to the outer rails for mounting wall to Spiral Slide. The Spiral Wall has a multi-stage baked on powder coat finish.

SPIRAL SLIDE DECK #3:

Walking surface shall be fabricated using 12 gauge sheet steel punched and formed with reinforcing cross members and gussets. The Spiral Slide Deck #3 shall be Play-Tuff™ coated after fabrication.

POST R35:

Shall be made from \varnothing 3.5", 11 gauge galvanized steel tubing.

SLIDE LEG SINGLE:

Shall be constructed of a 3/16" flat plate with (2) \varnothing 1.660", 11 gauge steel tubing (legs) welded vertically onto the base of the plate. There shall also be a 5/8" Round Bar footing anchor welded to the bottom of the legs to increase support in the footing. The Slide Leg Single has a multi-stage baked on powder coat finish.

MOUNTING LUGS:

Shall be precision die-cast from a high-strength aluminum alloy. The Mounting Lugs have a multi-stage baked-on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Assembled Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
FS-1706-SB	Spiral Slide Sit-Down Bar KC	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2



Additional Parts List - 6"H Filler Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
007085	Slide Spiral R5 Filler 6"H	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	12
9413002	Nut Lock 3/8"	6

Additional Parts List - 8"H Filler Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
See Pg. R5-11	Socket Clamp Assy.	2
007007	Mounting Lug R5	2
007272	Spiral Slide Filler 8"H	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	14
9413002	Nut Lock 3/8"	6

Additional Parts List - Filler Support 12 Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
See Pg. R5-11	Socket Clamp Assy.	2
007007	Mounting Lug R5	2
007047	Filler Support 12 R5	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	14
9413002	Nut Lock 3/8"	6

Parts List - R5-1706-6-HW 24" Step Filler w/ Half Walls

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
004487	Spiral Slide Deck #3	1
004490	Spiral Slide Bottom Collar	1
007007	Mounting Lug R5	2
007221	Vertical Step Slide Spiral	1
116704	Slide Spiral Hood	1
116724	Slide Spiral 6'H 1-PC	1
672611-11	Support Post 3.5" O.D. x 132"	1
See Pg. R5-11	Socket Clamp Assy.	6
FS-1701	Slide Leg Single	1
FS-1706-R2HW	Spiral Slide Wall w/ Handle R5	1 Set
9103032-TR	Bolt Button Head 3/8" x 3/4"	12
9103052-TR	Bolt Button head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	6
9123032	Bolt Hex 3/8" x 3/4"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9221092	Screw 1/4" x 2" SQ DR PH	2
9271060	Screw Tek 1/4" x 1-1/4" PH SQ DR	2
9333002	Washer Flat 3/8" x 1" x .100 thk	58
9413002	Nut Lock 3/8"	18
9483602	Nut Hex 3/8"	1

Assembled Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
FS-1706-SB	Spiral Slide Sit-Down Bar KC	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2

Additional Specifications

SPIRAL SLIDE FILLERS:

Shall be punch from 10 gauge HR Sheet Steel. The Spiral Slide Fillers have a multi-stage baked-on powder coat finish.

VERTICAL STEP SLIDE FILLER:

Shall be punch and formed from 10 gauge HR Sheet Steel. The Vertical Step Slide Filler shall be Play-Tuff™ coated after fabrication.

SPIRAL SLIDE WALL WITH HANDLE R5:

Shall be constructed of Ø 1.315", 12 gauge steel tubing outer rails with welded Ø 1.029" O.D., 14 gauge steel tubing vertical rungs. A 1/4" steel wall bracket is welded to the outer rails for mounting wall to Spiral Slide. The Spiral Wall has a multi-stage baked on powder coat finish.



Manufactured by Krauss Craft, Inc.
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541.955.9199 (International)

Rev E

Installation

Step 1. - This Step is Pre-Assembled.

Attach Spiral Slide Sit-Down Bar to Spiral Slide Hood. Refer to Figure 1 for hardware type and orientation.

Step 2.

Insert Center Support into Bottom Collar with Tabs/Ears pointed away from Footing Pin hole. Attach Footing Pin to Center Support. Insert Center Support into Spiral Slide. Leave Bottom Collar unattached to Center Support during this step. Attach Slide Leg Single to base of Spiral Slide. Refer to Figure 2 for hardware type and orientation.

Step 3.

Attach Collars to Support Posts. Refer to Elevation Views for Collar Location. See also Assembly Page R5-09 for hardware type and orientation.

Step 4.

Refer to Footing Layout and mark footing hole locations. Dig (1) 12" x 24" and (1) Ø 18" footing holes. Refer to Figure 3 for depth and details. **IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

Step 5a.

* For Spiral Slide 6'H 1-PC attached to 72"H Adjoining Decks Only *

Attach Spiral Slide Deck #3 to Adjoining 6'H Deck. Refer to Figure 4 for hardware type and orientation. Place temporary support under free end of Spiral Slide Deck #3, to hold it in a level position.

Step 5b.

* For Spiral Slides 6'H 1-PC attached to Adjoining Decks of less than 72"H*

Attach Filler to Adjoining Deck and to Spiral Slide Deck. Refer to Figure 5a for hardware type and orientation. For Fillers and Vertical Step Fillers additional mounting is required. Refer to Elevation Views for Collar Placement and See also Assembly Page R5-09 Collars and R5-11 Socket Clamps for hardware type and orientation Refer to Figure 5b for hardware type and orientation for attaching Fillers to Mounting Lugs and Socket Clamps. Place temporary support under free end of Spiral Slide Deck #3, to hold it in a level position.

Step 6.

Attach Spiral Slide Hood to Spiral Slide. Refer to Figure 6 for hardware type and orientation.

Step 7a.

* For Spiral Slide 6'H 1-PC attached to 60" - 72"H Adjoining Decks Only *

Attach Spiral Slide Wall to Spiral Slide Assembly. Refer to Figure 7 for hardware type and orientation.

Step 7b.

* For Spiral Slide 6'H 1-PC attached with 24" Step Filler to 48"H Adjoining Decks Only *

Attach Spiral Slide Wall with Handle to Spiral Slide Assembly. Refer to Figure 7 for hardware type and orientation.

Step 8.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 9.

Place Spiral Slide Assembly with Walls attached into place. Attach Spiral Slide to Spiral Slide Deck. Refer to Figure 8 for hardware type and orientation. Remove temporary support.

Step 10a.

* For Spiral Slide 6'H 1-PC attached to 60" - 72"H Adjoining Decks Only *

Attach Spiral Slide Wall to Collar using Socket Clamp Assembly and orientation. Refer to Figure 9a for wall orientation. See also Assembly Page R5-11 for hardware type and orientation.

Step 10b.

* For Spiral Slide 6'H 1-PC attached with 24" Step Filler to 48"H Adjoining Decks Only *

Attach Spiral Slide Wall with Handle to Collar using Socket Clamp Assembly and orientation. Refer to Figure 9b for wall orientation. See also Assembly Page R5-11 for hardware type and orientation.

Step 11.

Verify Exit Height. Refer to Figure 3 for details. Plumb and level Spiral Slide and Spiral Slide Deck. Block and Brace. Attach Spiral Slide Assembly to Center Support using Spiral Slide Bottom Collar. Refer to Figure 10 for hardware type and orientation.

Step 12.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 13.

Verify Spiral Slide and Deck are plumb and level. Block and brace prior to pouring concrete into footing holes. Pour concrete into footing holes. Refer to Figure 3 for details. Allow a minimum of 72 hours to cure before using this equipment. See Note B.

Step 14.

Place compliant protective surfacing under and around Center Support and Slide Leg Single. See Note D.

Maintenance

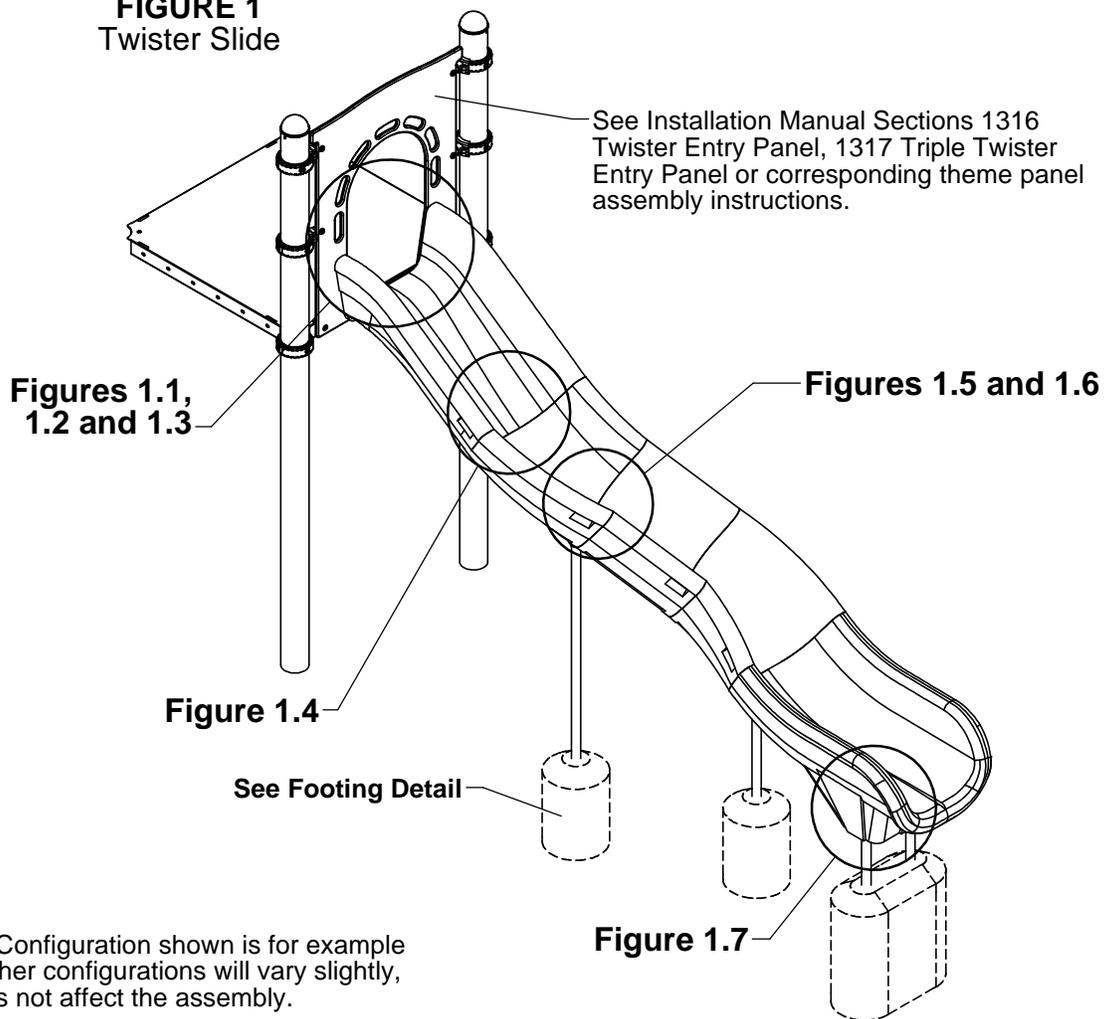
Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

- (A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.
- (B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).
- (C) Refer to Installation Manual for 1316 Twister Entry Panel, 1317 Triple Twister Entry Panel assembly instructions or corresponding theme panel assembly instructions.
- (D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.
- (E) Exit height must be between 7" [180mm] and 15" [380mm] from finish grade for slides with an elevation greater than 48". For slide elevations no greater than 48", the exit height shall be no greater than 11". Exit region must also have a downward slope of 0 to 4°.

FIGURE 1
Twister Slide



NOTE: Configuration shown is for example only. Other configurations will vary slightly, but does not affect the assembly.

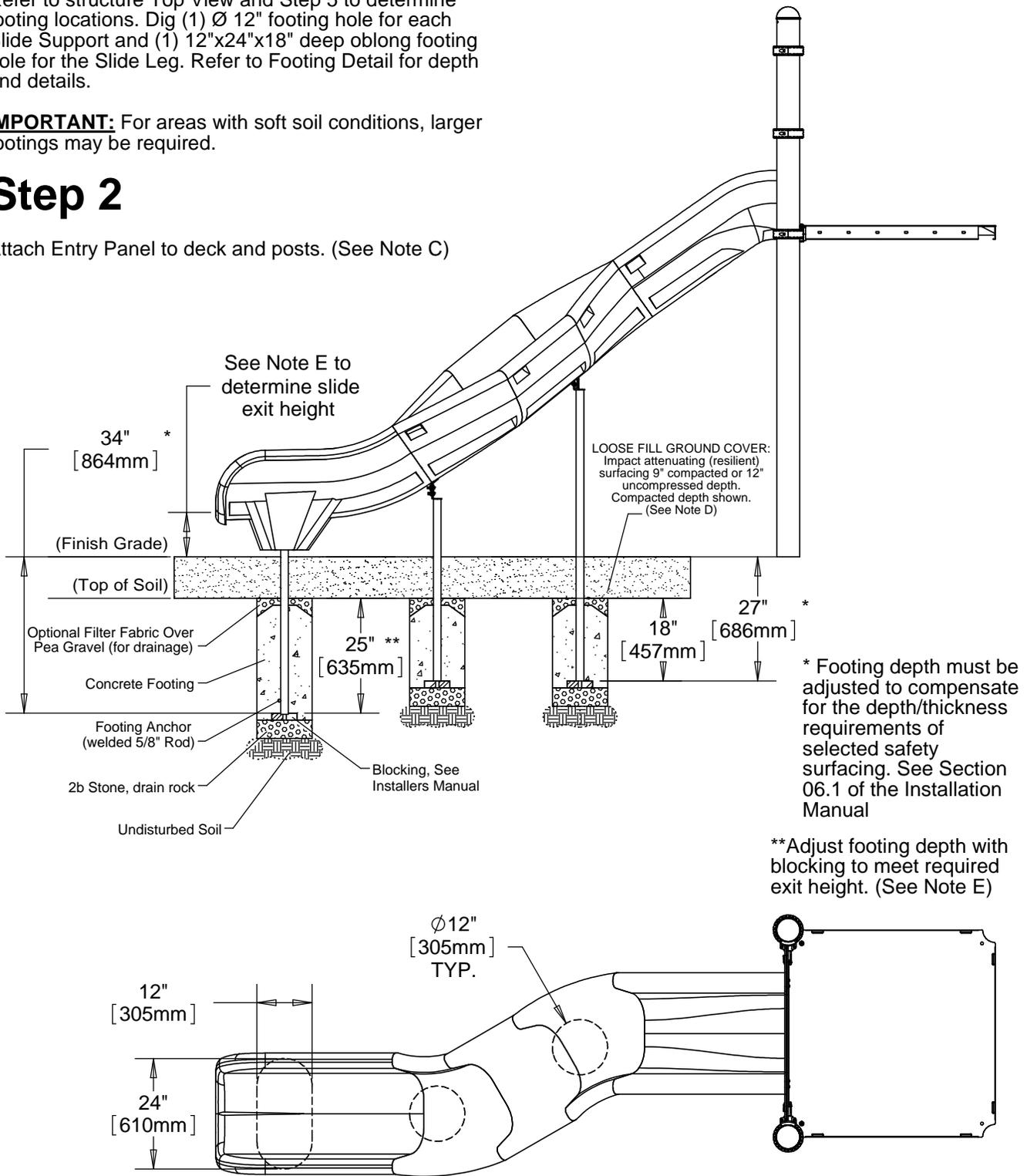
Step 1

Refer to structure Top View and Step 5 to determine footing locations. Dig (1) $\text{\O} 12''$ footing hole for each Slide Support and (1) $12'' \times 24'' \times 18''$ deep oblong footing hole for the Slide Leg. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

Step 2

Attach Entry Panel to deck and posts. (See Note C)

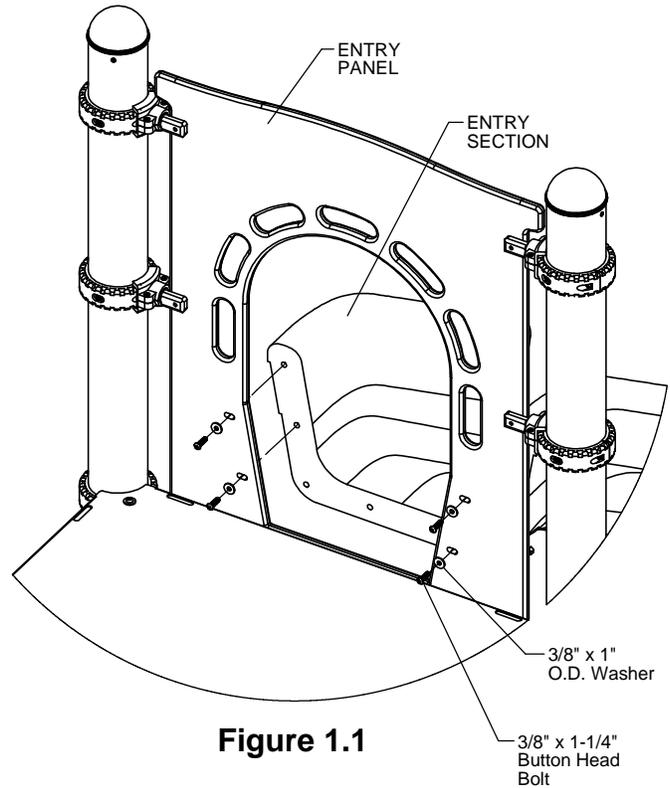


* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual

**Adjust footing depth with blocking to meet required exit height. (See Note E)

Step 3

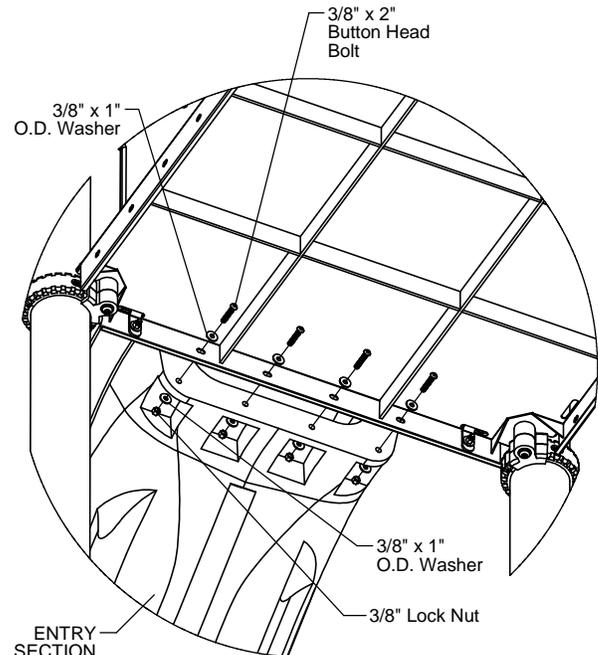
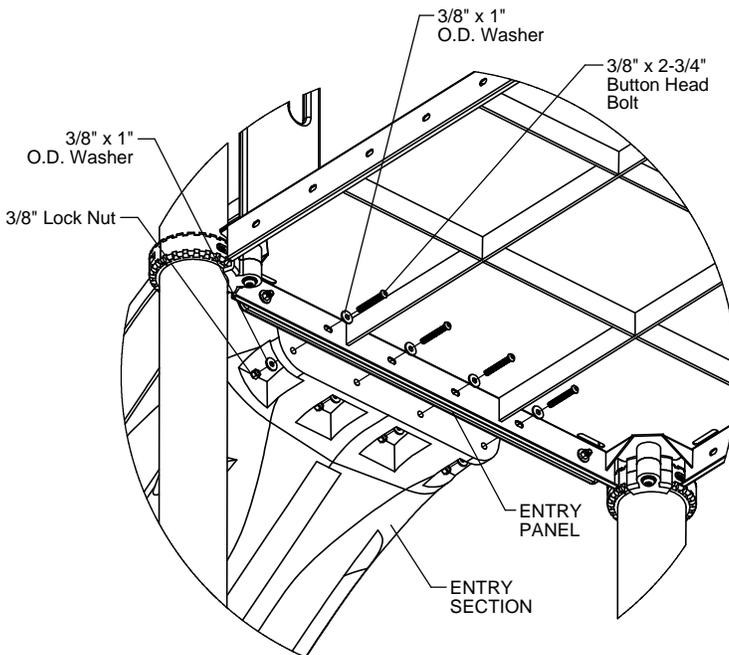
Attach Entry Section(s) to Entry Panel as shown in Figure 1.1. (See Note A)



Step 4

For Entry Sections including all Triple Twister Entry Panels use the hardware shown in Figure 1.2. (See Note A)

For Single Canada Entry Panels, attach Entry Section to deck as shown in Figure 1.3. (See Note A)



Step 5

Attach sections together as shown in Figure 1.4. Refer to structure Top View for configuration and support locations. For section joints where Support Bracket is attached, see Figure 1.5. (See Note A)

Determine footing center location by dropping plumb bob from Support Bracket(s).

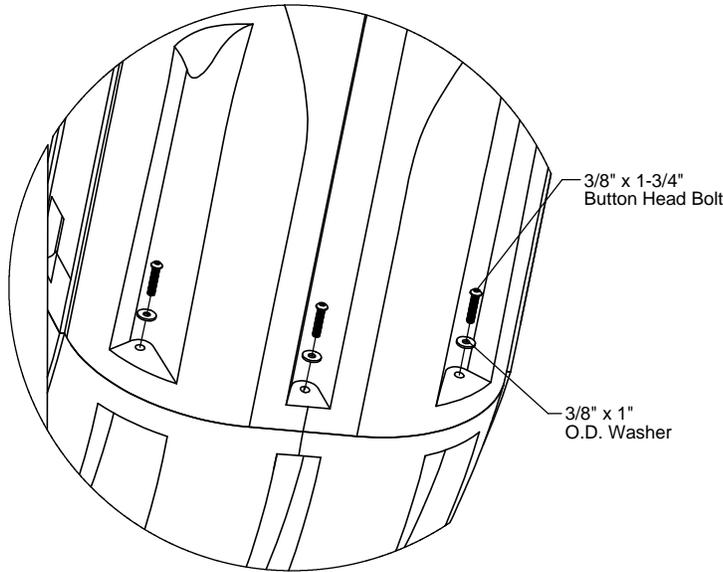


Figure 1.4

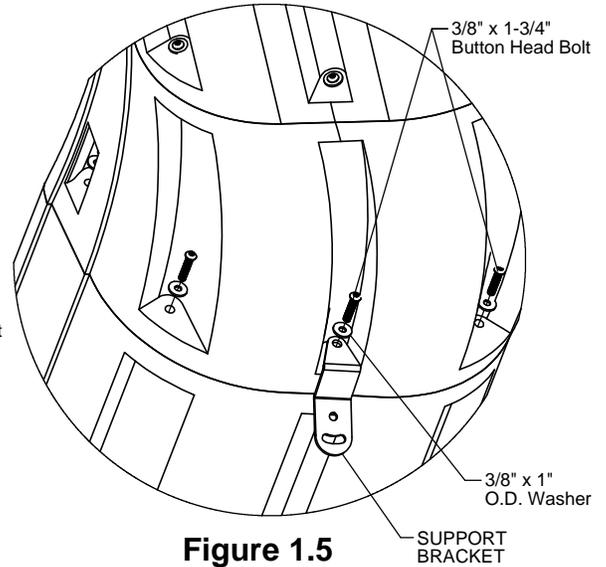


Figure 1.5

Step 6

Place Slide Support in footing hole and attach to Support Bracket as shown in Figure 1.6. (See Note A)

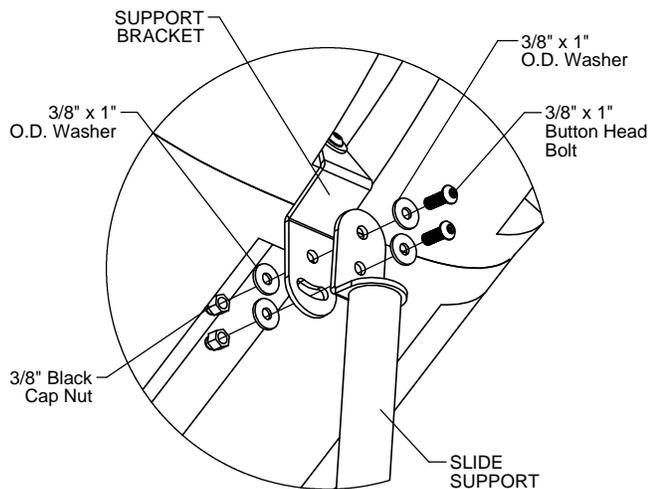


Figure 1.6

Step 7

Place Slide Leg in footing hole and attach to Exit Section as shown in Figure 1.7. (See Note A)

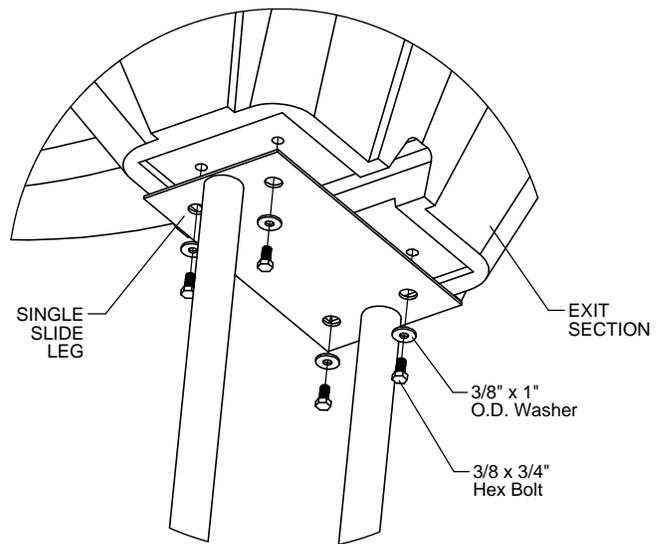


Figure 1.7

Step 8

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 9

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Notes B and E)

Step 10

Place appropriate compliant protective surfacing under and around Twister Slide. (See Note D)

Specifications

TWISTER SLIDE SECTIONS:

Shall be constructed of UV-stabilized rotationally molded linear low density polyethylene with an average wall thickness of .250".

TWISTER SLIDE SUPPORT:

Shall be fabricated of 1.660" O.D. 11 gauge steel tubing welded to a 3/16" formed and punched steel plate. Twister Slide Support has a multi-stage baked-on powder coat finish.

SINGLE SLIDE LEG:

Shall be fabricated of 1.660" O.D. 11 gauge steel tubing welded to a 10 gauge steel plate. The Single Slide Leg has a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

TWISTER SLIDE - TRIPLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	3
DE-4339-EXT	Twister Slide - Exit	3
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9103122-TR	Bolt Button Head 3/8" x 2-3/4"	12
9123032	Bolt Hex 3/8" x 3/4"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	48
9413002	Nut Lock 3/8"	12

Parts List

TWISTER SLIDE - SINGLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	1
DE-4339-EXT	Twister Slide - Exit	1
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103122-TR	Bolt Button Head 3/8" x 2-3/4"	4
9123032	Bolt Hex 3/8" x 3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	16
9413002	Nut Lock 3/8"	4

TWISTER SLIDE - CANADA SINGLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	1
DE-4339-EXT	Twister Slide - Exit	1
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103092-TR	Bolt Button Head 3/8" x 2"	4
9123032	Bolt Hex 3/8" x 3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	16
9413002	Nut Lock 3/8"	4

EACH MID-SUPPORT		
Part #	DESCRIPTION	QTY.
BE-4500	Sectional Slide Support Bracket #2	1
FS-1710-S	Sectional Slide Support	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413162-BLK	Nut Lock 3/8" w/ Black Cap	2

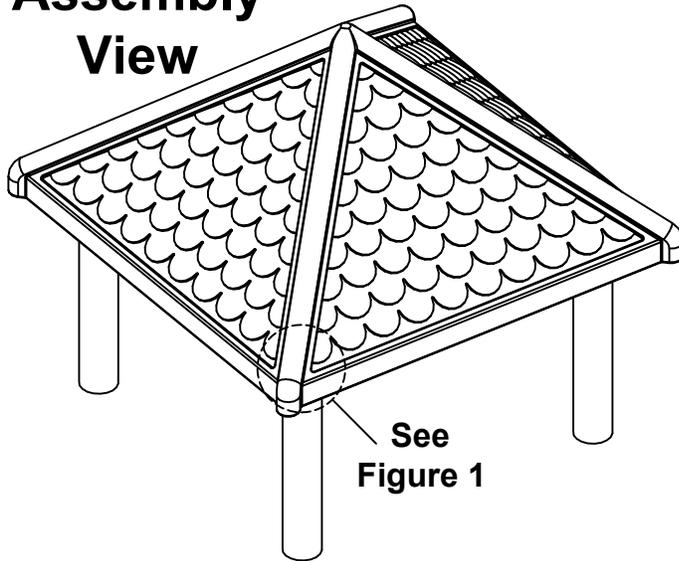
EACH SECTION JOINT		
Part #	DESCRIPTION	QTY.
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	5
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	5

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



Assembly View



Plan View

Roof Support Casting Layout

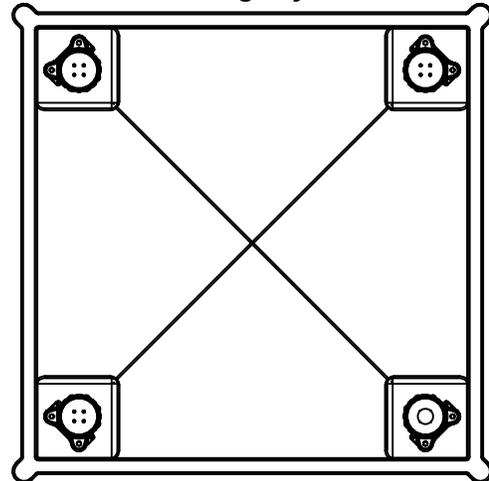
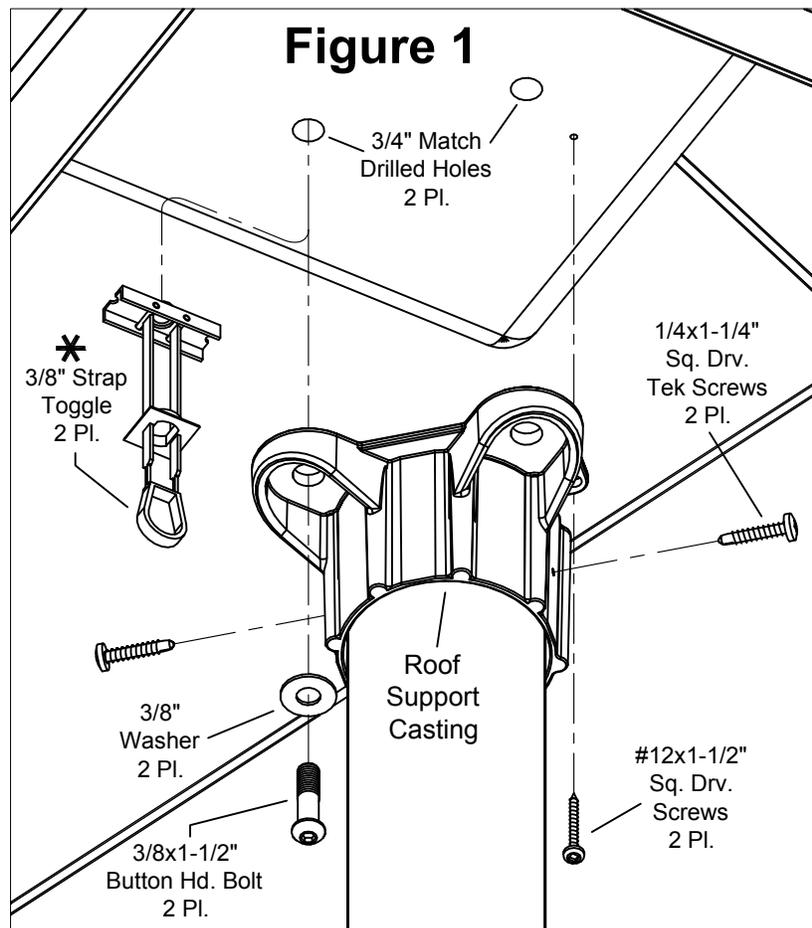


Figure 1



Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	Poly Shingled Roof	141020
4	Roof Support Castings 2-Ear	7163
8	3/8"x1-1/2" Button Hd. Bolts	9103072-TR
8	#12x1-1/2" Sq. Drv. Screws	9221272
8	1/4"x1-1/4" Sq. Drv. Tek Screws	9271060
8	3/8" Washers	9333002
8	3/8" Strap Toggle Fasteners	9643160

Specifications

ROOF:

Shall be roto-molded of UV-stabilized polyethylene with an average wall thickness of .250".

ROOF SUPPORT CASTING:

Shall be Die-Cast using a High-Strength Aluminum Alloy. To be finished with a baked on Powder Coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately.

Installation

Notes:

(A) Use Posts without caps.

(B) Snug tighten all fasteners during assembly. After assembly, check position and tighten the fasteners fully.

(C) Use liquid thread lock (such as Loctite) with all threaded hardware. ***Important:*** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

✱ (D) Caution must be given to Toggle Assembly as parts may become fragile during insertion and final securing.

Step 1.

Attach Roof Casting to the top of the Post using 1/4"x1-1/4" Sq. Drv. Tek Screws as shown in Figure 1.

Step 2.

Position & center the Shingled Roof on the Roof Support Castings.

Step 3.

Mark Roof Casting hole positions on Poly Roof.

Step 4.

Move Roof out of position and match drill (2) 3/4" Dia. holes at each Casting location. Cinch the (2) Strap Toggle Fasteners into the roof through the 3/4" holes as shown in Figure 1. Re-position Shingled Roof.

Step 5.

Complete the attachment of the Roof to the Roof Castings using the 3/8"x1-1/2" Button Head Bolts and 3/8" Washers as shown in Figure 1.

Step 6.

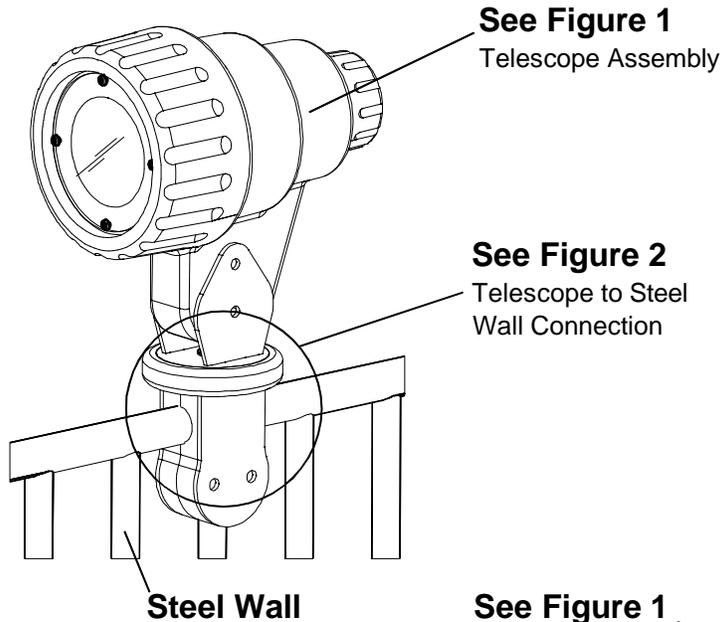
Fully tighten all fasteners.

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite[®]) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Assembly Views

1830-S Telescope On Wall - Steel



1830-P Telescope On Wall - HDPE

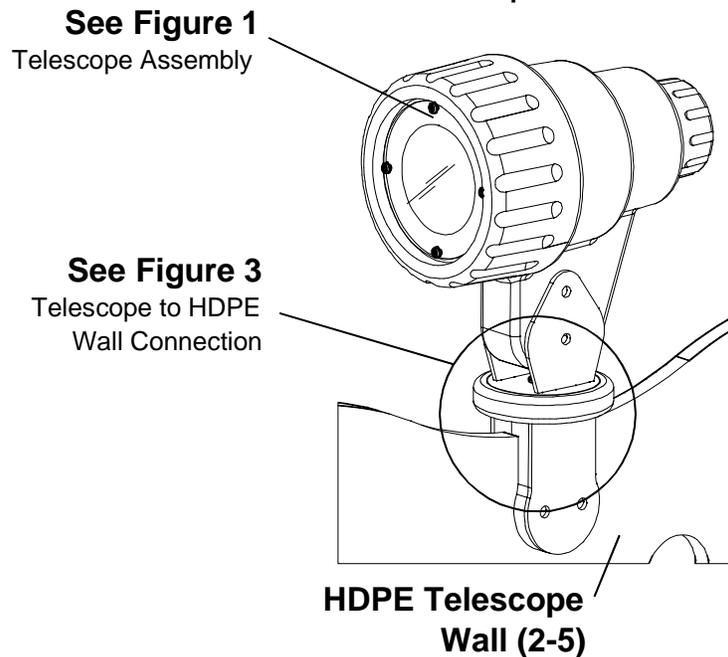


Figure 1

Telescope Assembly

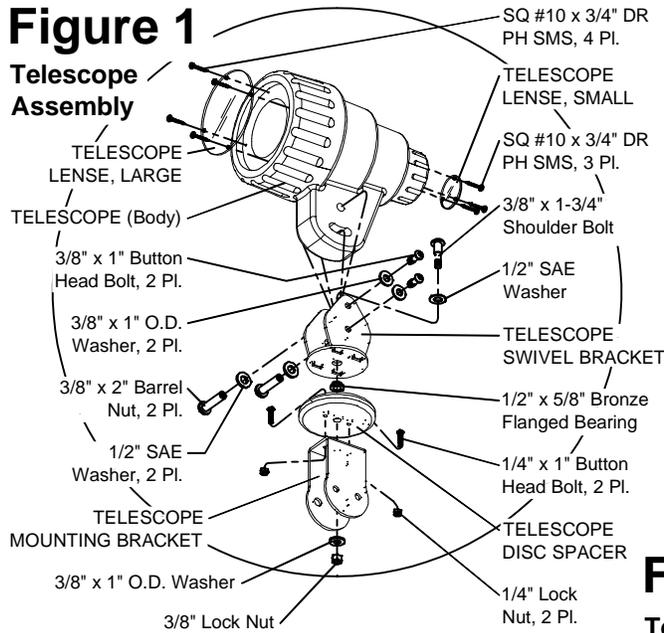


Figure 2

Telescope to Steel Wall Connection

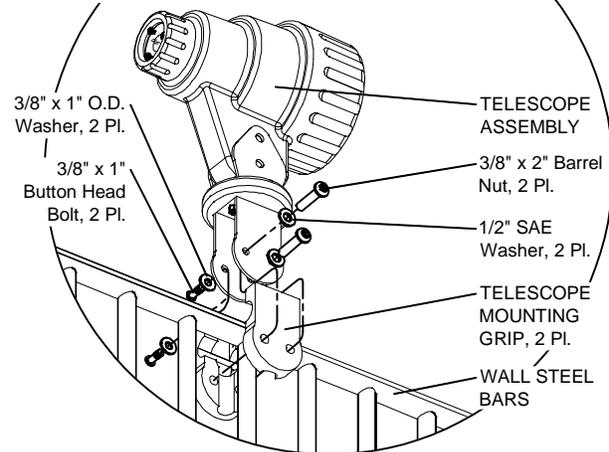
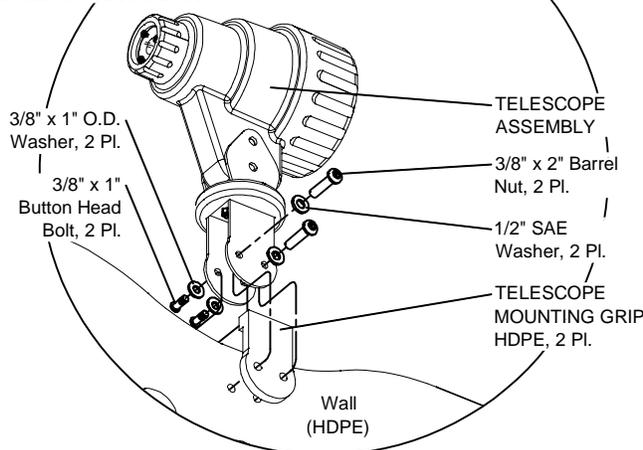


Figure 3

Telescope to HDPE Wall Connection



Parts List

1830-S Telescope on Wall (Steel)

PART #	DESCRIPTION	QTY.
007116	Telescope Mount Grip	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9345002	Washer Flat SAE 1/2"	2
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Parts List

1830-P Telescope on Wall (HDPE)

PART #	DESCRIPTION	QTY.
004624	Telescope Mount Grip HDPE	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9345002	Washer Flat SAE 1/2"	2
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Assembled Parts List

PART #	DESCRIPTION	QTY.
004523	Telescope (Body)	1
004579	Telescope Mounting Bracket	1
004584	Telescope Disc Spacer Wall	1
004585	Telescope Lens Small and Large	1 Set
562005	Bearing Flanged Bronze 1/2" x 5/8"	1
FS-1830	Telescope Swivel Bracket	1
9101052-TR	Bolt Button Head 1/4" x 1"	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
91431-CUT	Bolt Shoulder 3/8" x 1-3/4" BH	1
9251032	Screw SQ #10 x 3/4" DR PH SMS	7
9333002	Washer Flat 3/8" x 1" x .100 thick	3
9345002	Washer Flat SAE 1/2"	3
9411012	Nut Lock 1/4"	2
9413002	Nut Lock 3/8"	1
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

Installation

Step 1. (Factory Assembled)

Assemble Telescope. Refer to Figure 1 for hardware type and orientation. Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE " Section of the Installation Manual. See Note A.

Step 2a. *Wall (Steel) ONLY*

Attach Telescope Assembly to Wall. Refer to Figure 2 for hardware type and orientation.

Step 2b. *HDPE (Wall/Panel) ONLY*

Attach Telescope Assembly to Wall. Refer to Figure 3 for hardware type and orientation.

Step 3.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE " Section of the Installation Manual. See Note A.

Specifications

TELESCOPE (Body):

Shall be constructed of UV-stabilized rotationally molded Linear Low Density Polyethylene with an average single wall thickness of .250".

TELESCOPE MOUNTING BRACKET:

Shall be precision laser-cut and formed from 3/16" thick H.R. sheet steel. The Telescope Mounting Bracket has a multi-stage baked-on powder coat finish.

TELESCOPE DISC SPACER WALL and MOUNTING GRIP:

Shall be fabricated using 3/4" High Density Polyethylene hot-extruded plastic specially formulated for optimum UV stability and color Retention.

TELESCOPE LENS SMALL and LARGE:

Shall be fabricated using .118" thick Polycarbonate.

TELESCOPE SWIVEL BRACKET:

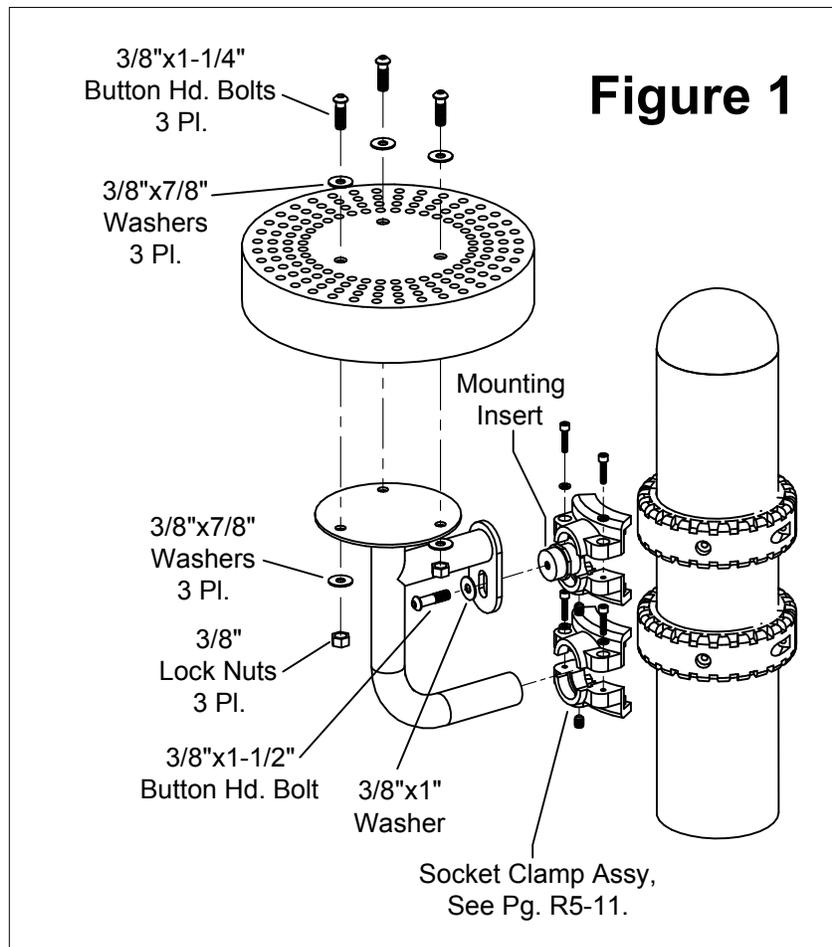
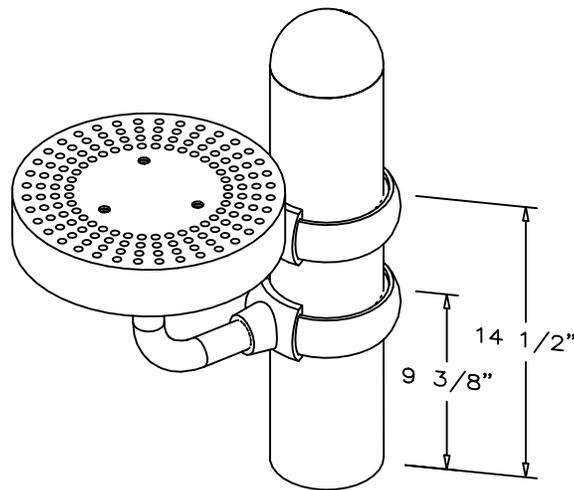
Shall be 3-pieces precision laser-cut and welded together from 3/16" thick H.R. sheet steel. The Telescope Swivel Bracket has a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.



Assembly View



Parts List

QTY.	DESCRIPTION	PART #
1	Round Play Seat	4568
1	Seat on Post Support	FS-1963
2	R5 Socket Clamp Assy.	See Page 11
1	Mounting Insert	7015
1	3/8x1-1/2" Button Hd. Bolt	9103072-TR
3	3/8x1-1/4" Button Hd. Bolts	9103062-TR
3	3/8" Lock Nuts	9433001
6	3/8x7/8" O.D. Washers	9333042
1	3/8" Washer	9333002

Instructions

Notes:

(A) The dimensions shown in the Assembly View are measured from top of ground cover (Finish Grade) to tops of collars.

(B) Use liquid thread lock (such as Loctite) with all threaded hardware. ***Important:*** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Step 1.

Locate and mark collar positions as shown in the Assembly View, and attach as shown on Collar Assembly Page 09.

Step 2.

Attach Play Seat to the post as shown in Figure 1. See Socket Clamp Assembly Page 11 .

Step 3.

Fully tighten all fasteners.

Specifications

PLAY SEAT:

Shall be punched and formed of 12 gage, vinyl coated steel.

SOCKET CLAMPS:

Shall be two part and precision die-cast from a high strength alluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

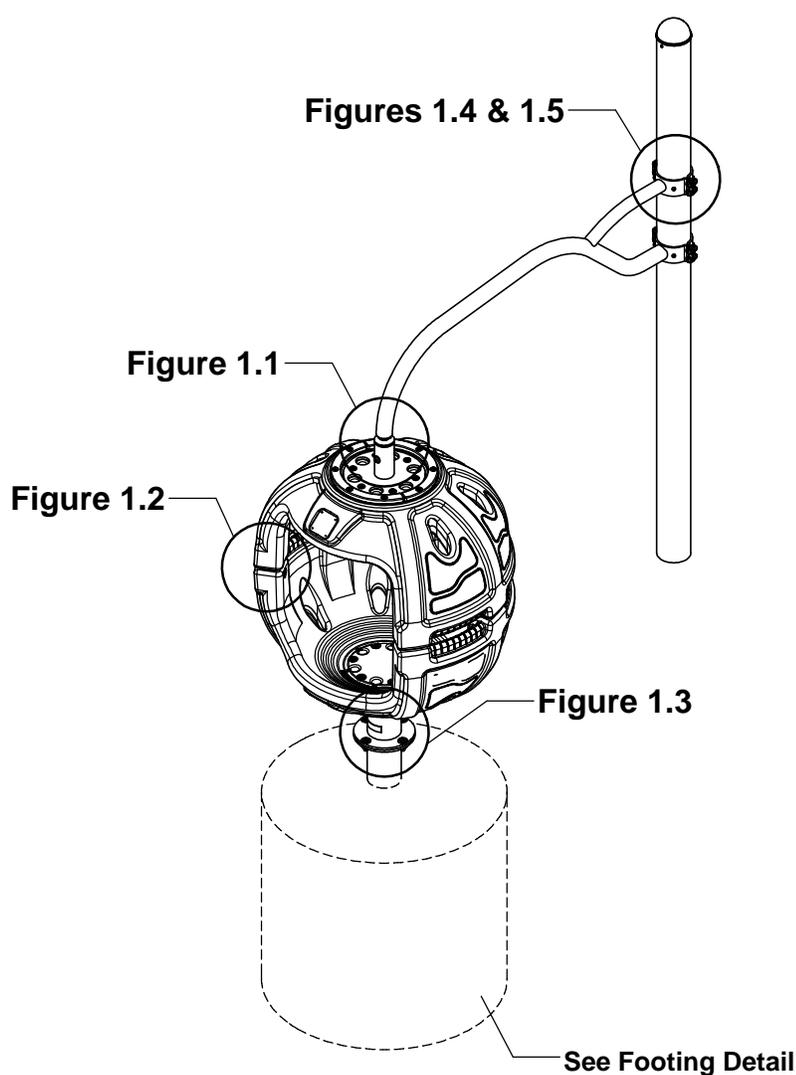
IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) **Important:** prior to pouring concrete, verify that the Spin Max Pod spins freely.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.



**FIGURE 1
Spin Max Pod**

Step 1

Footing Detail

Refer to Footing Layout and mark footing hole location. Dig (1) Ø 36" footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** Height shown from finish grade to top of collar.

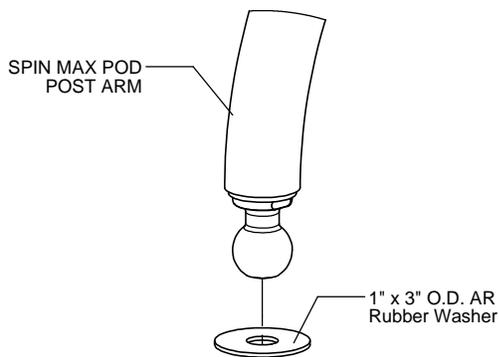
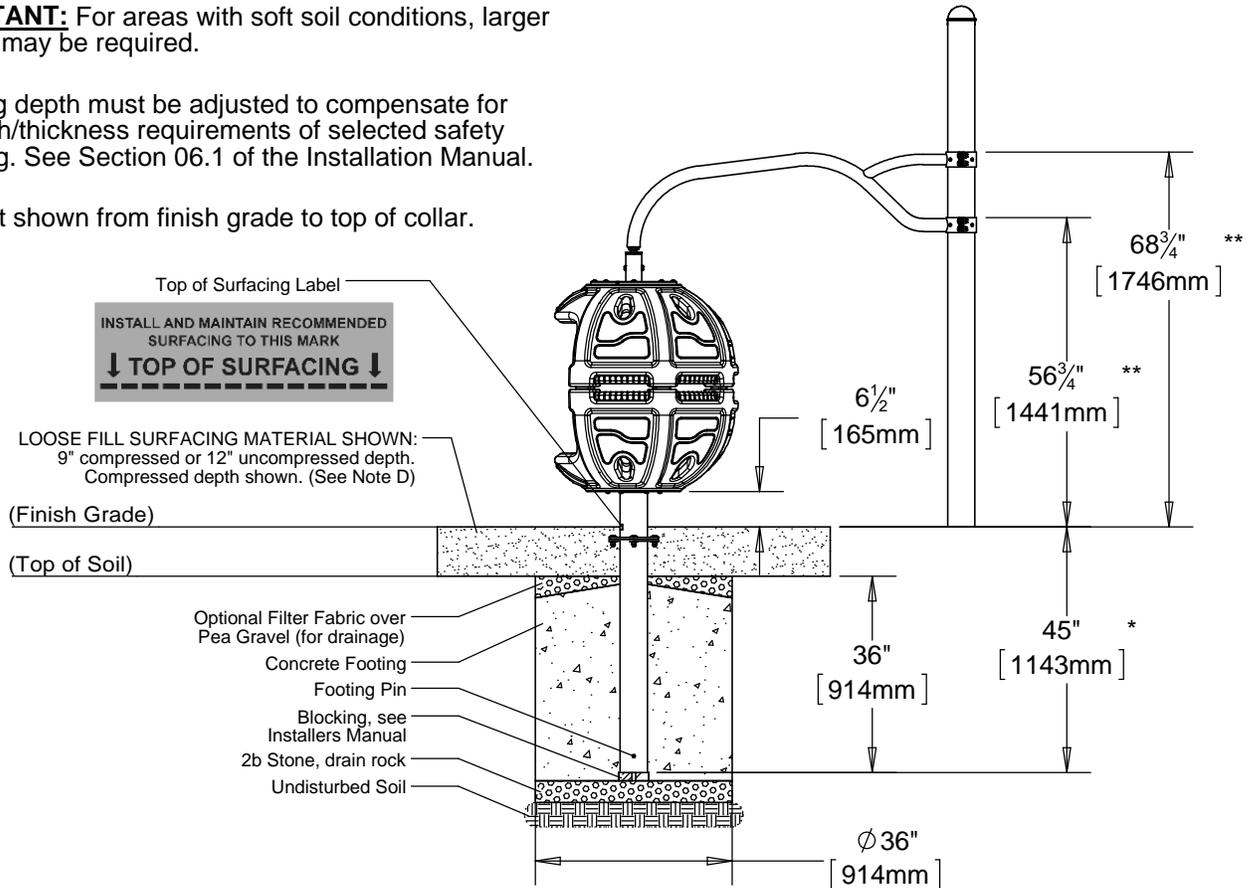


Figure 1.1

Step 2 (Factory Assembled)

Secure Rubber Washer over Ball Joint as shown in Figure 1.1

Step 3 (Factory Assembled)

Insert Double Seal Ball Bearings into Spin Max Bearing House as shown in Figure 2.

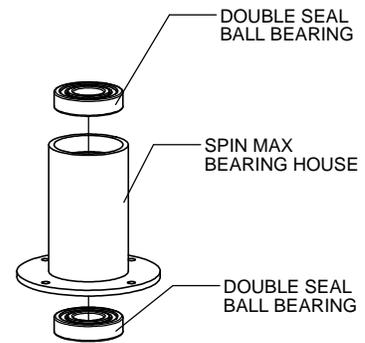


FIGURE 2

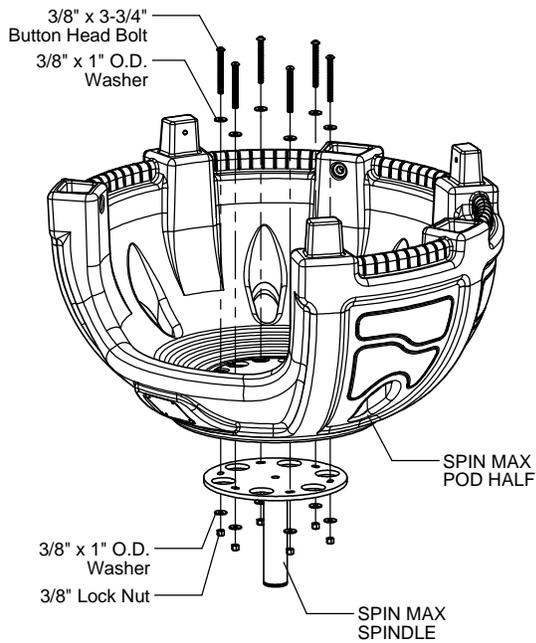


FIGURE 3

Step 4 (Factory Assembled)

Attach Spin Max Spindle to the bottom Spin Max Pod Half as shown in Figure 3. (See Note A)

Step 5 (Factory Assembled)

Attach Spin Max Pod Half to Spin Max Bearing House as shown in Figure 4.

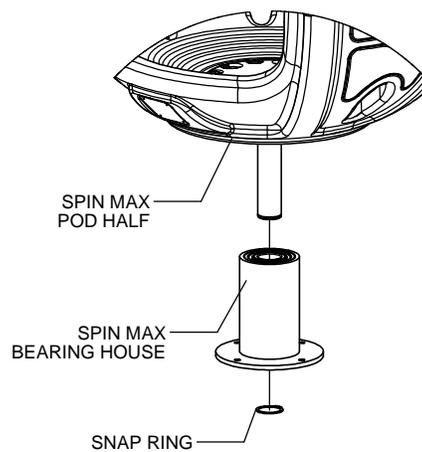


FIGURE 4

Step 6 (Factory Assembled)

Attach Spin Max Pod Hub to top Spin Max Pod Half as shown in Figure 5. (See Note A)

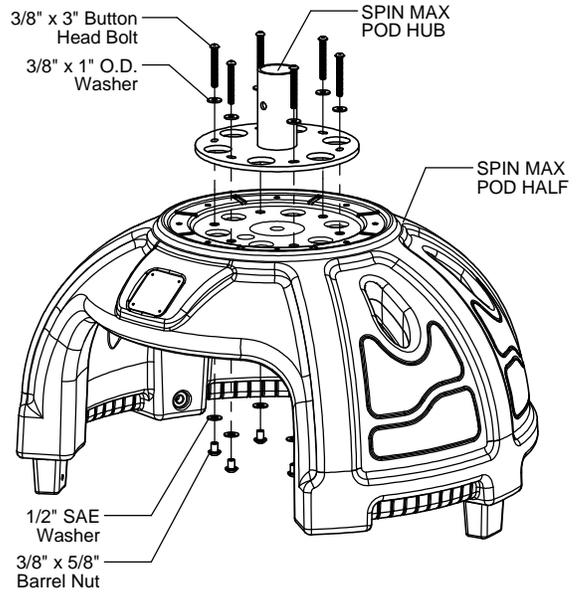


FIGURE 5

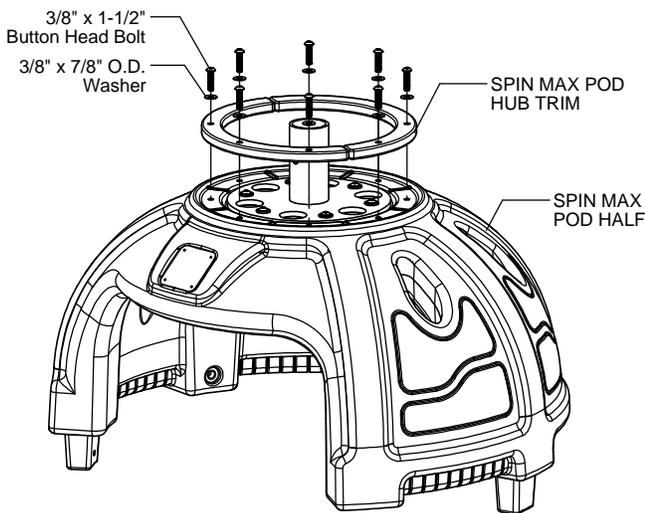


FIGURE 6

Step 8

Attach Spin Max Pod Halves together as shown in Figure 1.2. (See Note A)

Step 7 (Factory Assembled)

Attach Spin Max Pod Hub Trim to top Spin Max Pod Half as shown in Figure 6. (See Note A)

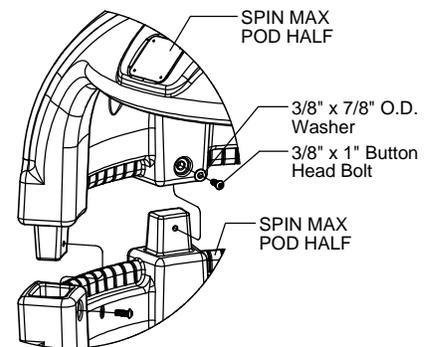


Figure 1.2

Step 9

Install footing pin into Leg as shown in Figure 7.
(See Note A)

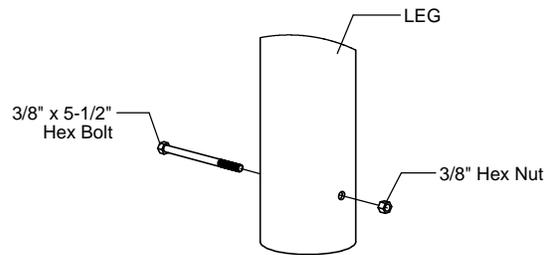


FIGURE 7

Step 10

Attach Spin Max Bearing House to Leg as shown in Figure 1.3 and place Spin Max Pod into footing hole.
(See Notes A & B)

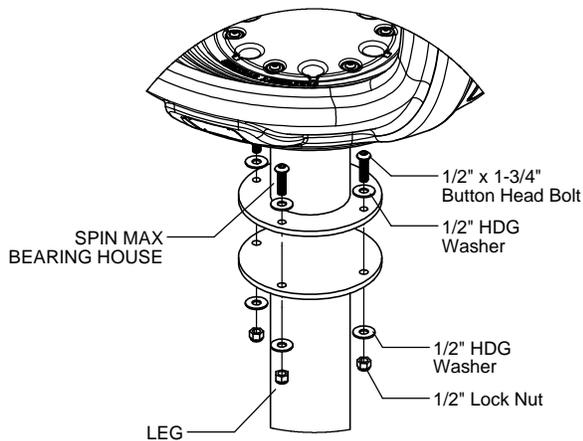


Figure 1.3

Step 11

Refer to Footing Detail for collar heights and attach Spin Max Pod Post Arm to post as shown in Figure 1.4. (See Note A)

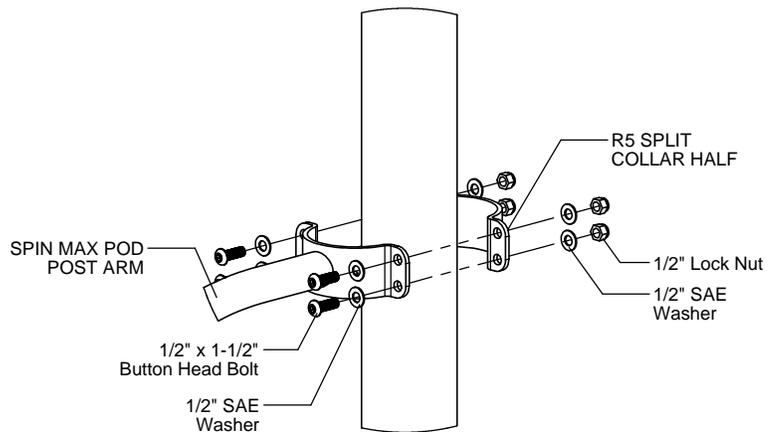


Figure 1.4

Step 12

Attach Spin Max Pod Post Arm to Spin Max Pod Hub as shown in Figure 8. (See Notes A & C)

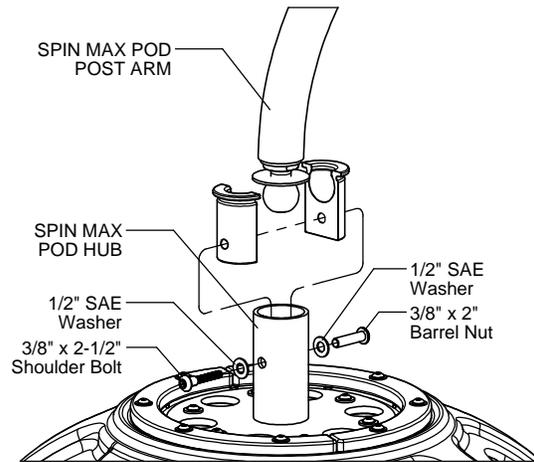


FIGURE 8

Step 13

Secure Split Collar Halves to post as shown in Figure 1.5. (See Note C)

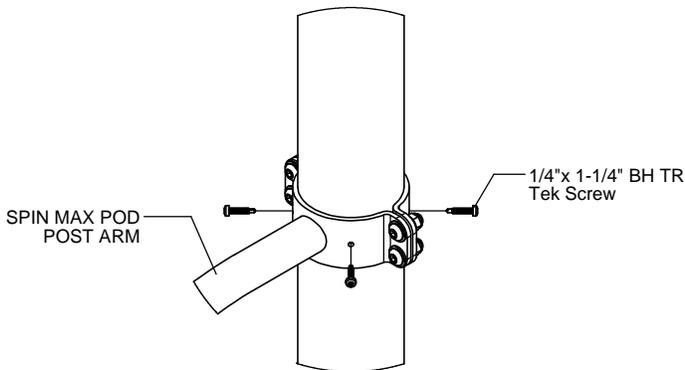


Figure 1.5

Step 14

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 15

Plumb and level entire component. Pour concrete into footing hole. Allow at least 72 hours to cure before using this equipment. (See Note B & C)

Step 16

Affix "Top of Surfacing" label to base of Spin Max Pod indicating the top of minimum required surfacing depth as shown in Footing detail. (See Note D)

Step 17

Place required protective surfacing under and around Spin Max Pod. (See Note D)

Specifications

SPIN MAX BEARING HOUSE:

Shall be fabricated from a machined 5" O.D. steel tubing with a 1/2" wall welded to a 3/8" thick steel mounting plate. The Spin Max Bearing House shall have a multi-stage baked-on powder coat finish.

SPIN MAX POD HALF:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

SPIN MAX POD HUB:

Shall be fabricated using 2-1/4" O.D. machined steel hub with welded 3/8" thick steel plate. The Spin Max Pod Hub shall have a multi-stage baked-on powder coat finish.

SPIN MAX POD HUB TRIM:

Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV stability and color retention.

SPIN MAX POD LEG:

Shall be fabricated using 5" O.D. 7 gauge steel post with welded 3/8" thick steel mounting plate. The Spin Max Pod Leg shall have a multi-stage baked-on powder coat finish.

SPIN MAX POD POST ARM R5:

Shall be fabricated using 2.375" O.D. 11 gauge steel tubing with welded 1.900" O.D 11 gauge support, 3/16" thick steel pipe plug, 1/4" thick steel mounting brackets and stainless steel ball bearing. The Spin Max Pod Post Arm R5 shall have a multi-stage baked-on powder coat finish.

SPIN MAX POD SPINDLE:

Shall be fabricated from precision cut 3/8" thick steel plate with a welded machined steel spindle. The Spin Max Pod Spindle shall have a multi-stage baked-on powder coat finish.

BALL JOINT HALF:

Shall be made from Ultra High Molecular Weight Polyethylene for lasting durability and minimal rotational resistance.

SPLIT COLLAR HALF R5:

Shall be formed from 1/4" thick steel with a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

Part #	DESCRIPTION	QTY.
BF-7068	Split Collar Half R5	2
FS-PC2478-LEG	Spin Max Pod Leg	1
IH-0001	Ball Joint Socket Half	2
372017	Top of Surfacing Label	1
9103052-TR	Bolt Button Head 3/8" x 1"	6
9105072	Bolt Button Head 1/2" x 1-1/2"	8
9105082	Bolt Button Head 1/2" x 1-3/4"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	1
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	8
9315003	Washer Cut 1/2" HDG	8
9333042	Washer Flat 3/8" x 7/8" O.D.	6
9345002	Washer Flat SAE 1/2"	18
9415132	Nut Lock 1/2"	12
9443092-TR	Nut Barrel 3/8" x 2" BH	1
9483602	Nut Hex 3/8"	1

Assembled Parts List

Part #	DESCRIPTION	QTY.
DE-0068	Spin Max Pod Half	2
EE-0460	Spin Max Pod Hub Trim	2
FS-1972	Spin Max Pod Hub	1
FS-1972-R5	Spin Max Pod Post Arm R5	1
FS-PC2476-BHS	Spin Max Bearing House	1
FS-PC2478	Spin Max Pod Spindle	1
480320	External Snap Ring	1
481631	Double Seal Ball Bearing	2
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103132-TR	Bolt Button Head 3/8" x 3"	6
9103162-TR	Bolt Button Head 3/8" x 3-3/4"	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	18
9333042	Washer Flat 3/8" x 7/8" O.D.	8
9345002	Washer Flat SAE 1/2"	6
9380130	Washer Rubber AR 1" x 3" O.D.	1
9413002	Nut Lock 3/8"	6
9443022-TR	Nut Barrel 3/8" x 5/8" BH	6

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



SUNSET PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

SUNSET PARK
SW VIEW

R5

FOR KIDS
AGES
5-12



STRUCTURE#: R50EAF68C
PROJECT#: CRS174CDCA-2
DATE: 2/8/2017 | DRAWN BY: CSH



SUNSET PARK
NE VIEW

R5

FOR KIDS
AGES
5-12



STRUCTURE#: R50EAF68C
PROJECT#: CRS174CDCA-2
DATE: 2/8/2017 | DRAWN BY: CSH



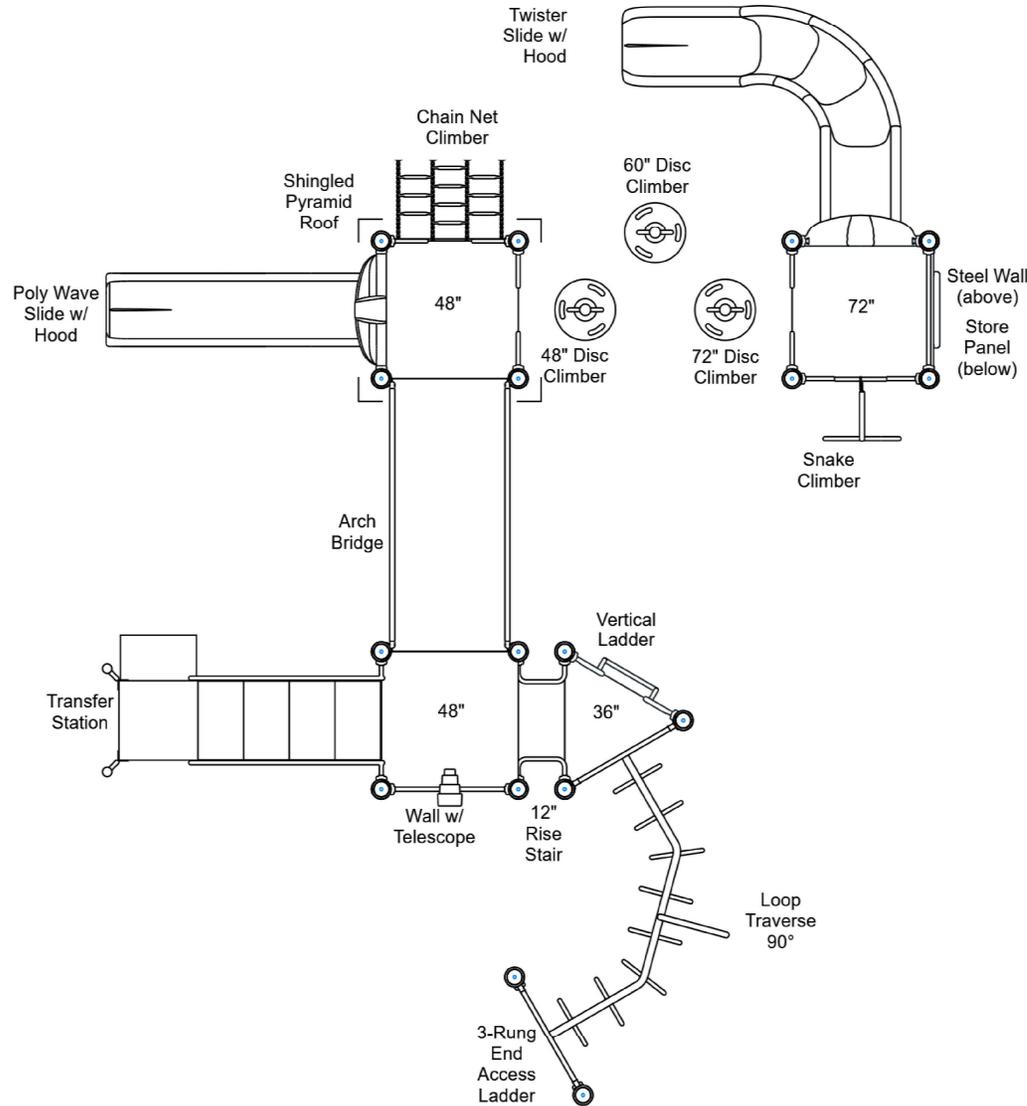
SUNSET PARK TOP VIEW

ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
7	5/4	0	1/2	1/2

R5

FOR KIDS
AGES
5-12



GENERAL NOTES:

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC's Handbook For Public Playground Safety, Section 4: Surfacing.

STRUCTURE#: R50EAF68C

PROJECT#: CRS174CDCA-2

DATE: 2/8/2017 | DRAWN BY: CSH

MIN. USE ZONE: 35' x 42'

PLAYCRAFT REP:

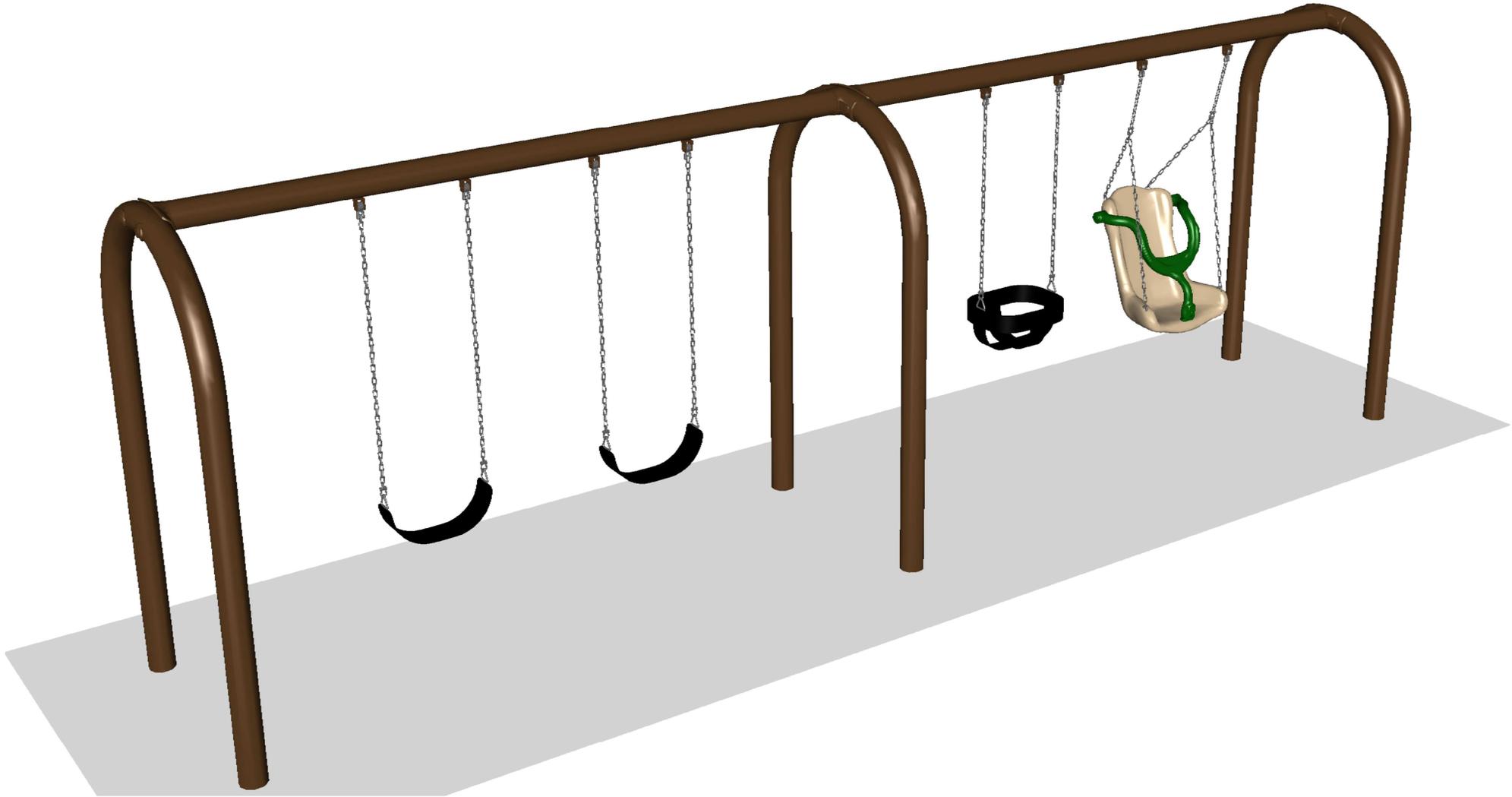
Commercial Recreation Specialis



SUNSET PARK
SW VIEW

R5

FOR KIDS
AGES
5-12



STRUCTURE#: FREPC2120+AB
PROJECT#: CRS174CDCA-2
DATE: 2/8/2017 | DRAWN BY: CSH



SUNSET PARK

TOP VIEW

ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0	4/0	1/0

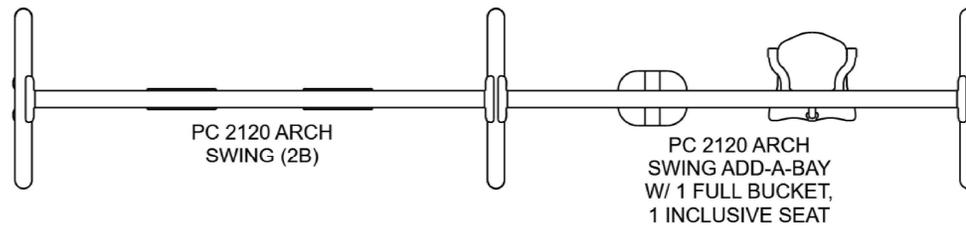


FOR KIDS
AGES
5-12

GENERAL NOTES:

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.



STRUCTURE#: FREPC2120+AB

PROJECT#: CRS174CDCA-2

DATE: 2/8/2017 | DRAWN BY: CSH

MIN. USE ZONE: 36' x 30'

PLAYCRAFT REP:

Commercial Recreation Specialis





Bill of Materials

SUNSET PARK
Nick McHone

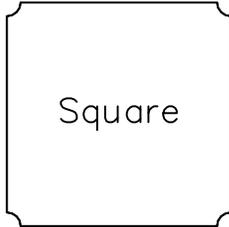
Project# CRS174CDCA-2
2/8/2017

Item	Description	Quantity
R50EAF68C		
HS-1004-R	Collars	45
GF-7002	Dome Cap, R5	13
S-1011-R5-11ft	Post, 11ft R5	5
S-1012-R5-12ft	Post, 12ft R5	4
S-1013-R5-13ft	Post, 13ft R5	4
S-1014-R5-14ft	Post, 14ft R5	4
S-1101-R5	Square Deck	3
S-1102-R5	Tri-Deck	1
S-1206-12R5	ADA Stairs, 12in Rise w/ Walls	1
S-1209-36-R5	Transfer Station, 48in-L	1
S-1210-36R5	Climber, Vertical Ladder 30-36in	1
S-1221-4R5	Climber, Chain Net 42-48in	1
S-1222-6R	Climber, Snake 66-72in	1
S-1233-4R5-HWMC	Climber, Disc 42-48in (w/ HW, MC)	1
S-1233-5-MC	Climber, Disc 54-60in (MC)	1
S-1233-6R5-HWMC	Climber, Disc 66-72in (w/ HW, MC)	1
S-1301-1830-S-R5	Wall w/ Telescope	1
S-1301-R5	Wall, Steel 36in (Standard)	1
S-1403-R5	End Access Ladder (3-Rung)	1
S-1411-90-R5	Traverse, Loop (90 Degree)	1
S-1502-90	Bridge, Arch (90in)	1
S-1615-R5	Store Panel	1
S-1704-4R5H	Slide, Wave 48in (Single w/ Hood)	1
S-1710-6R5H-LLL	Slide, Twister 72in (L3, w/ Hood)	1
S-1807-R5	Roof, Square Pyramid (Shingled)	1

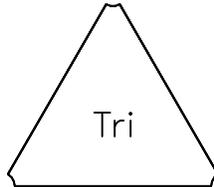


**Bill of Materials
(continued)**

Item	Description	Quantity
HS-1007-R5	Extra Hardware	2
FREPC2120+AB		
A2-2120-2B	PC 2120 Arch Swing (2B)	1
A2-2120-FB-ADA-AB	PC 2120 Arch Swing (Right, 1FB, 1INC)	1



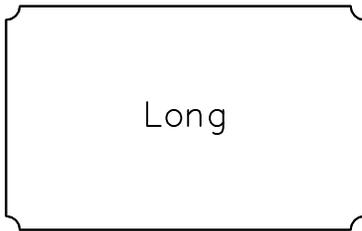
R5 Deck 1



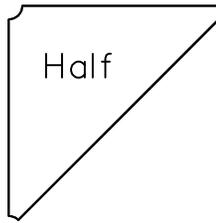
R5 Deck 2



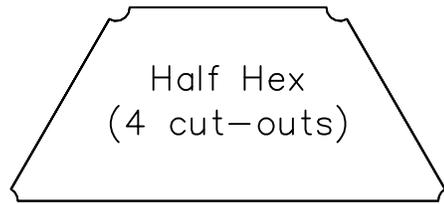
R5 Deck 4



R5 Deck 4



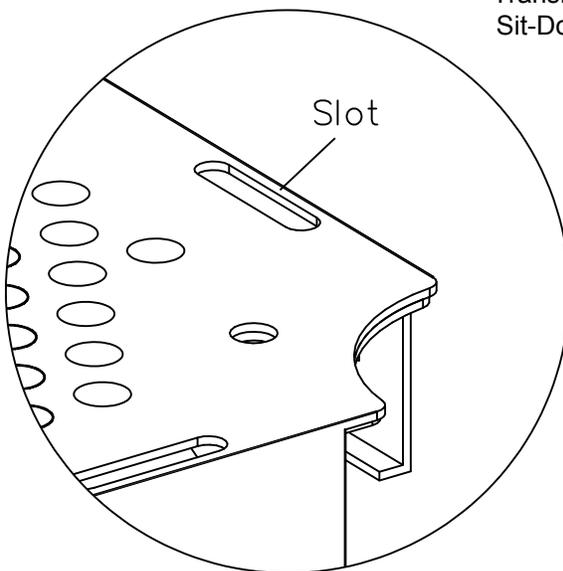
R5 Deck 5



R5 Deck 6

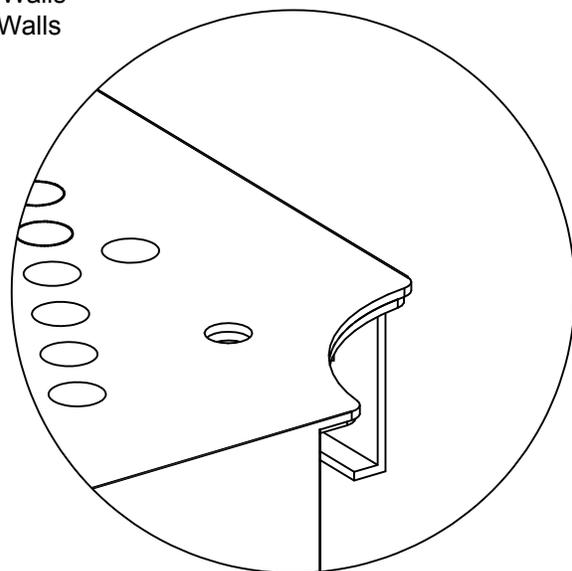
Note: Most walls require Decks w/ slots.

Deck With Slots

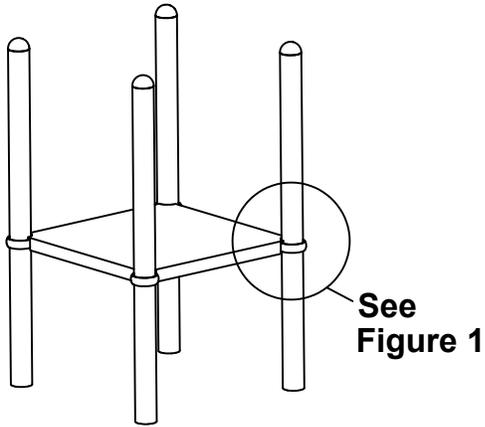


APPLIES TO:
Full Walls
Half Walls
Transition Walls
Sit-Down Walls

Deck Without Slots



Assembly View



R5 DECK 1

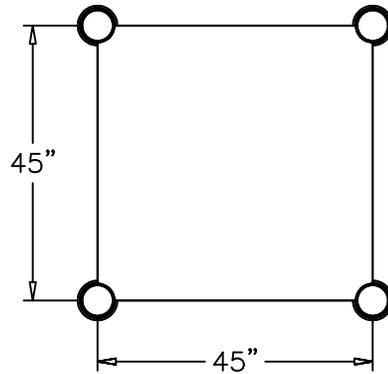
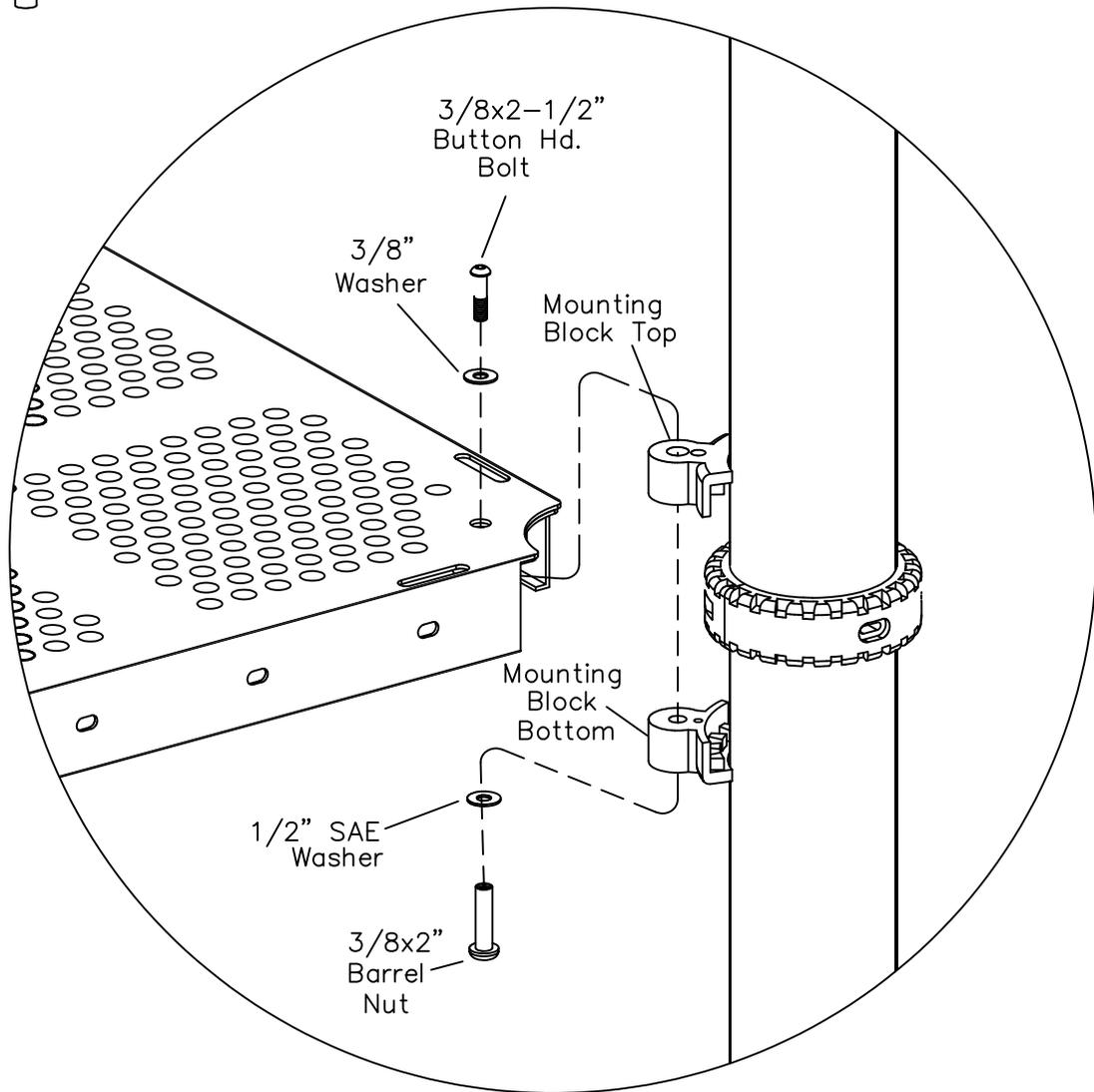


Figure 1



Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	R5 Deck 1	7008
4	Mounting Block Top	7006-T
4	Mounting Block Bottom	7006-B
4	3/8 x 2-1/2" Button Hd. Bolts	9103112-TR
4	3/8 x 2" Barrel Nuts	9443092-TR
4	3/8" Washers	9333002
4	1/2" SAE Washers	9345002

Installation

Notes:

(A) All deck heights on your system's top view drawing are measured from the top of ground cover (finished grade). Post location dimensions are on centers.

(B) The collars are to be located 7/8" below the top of the deck (to the top of the collar). Refer to page R5-09 for Collar Assembly instructions.

(C) Never allow the gap between decks to be between 3-1/2" and 9". Deck fillers are provided for gaps between decks with 8" and 12" rise increments.

(D) Use liquid thread lock (such as Loctite) with all threaded hardware that does not include self-locking nuts.

Specifications

R5 DECK 1:

Deck shall be constructed using 12 gauge sheet steel which shall be formed and fabricated into required designs. All steel decks and stepping surface shall be punched with a uniform hole pattern and be finished with slip-resistant PVC (poly-vinyl-chloride) coating.

MOUNTING BLOCKS:

Shall be two part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Step 1.

Place Mounting Blocks on the support collars and lower Deck into place, aligning the holes with the Mounting Block holes.

Step 2.

Secure each corner of Deck to the support post's collars using hardware as shown in Figure 1 .

Step 3.

Square and level all support posts and deck assemblies. Check to ensure that all deck assemblies are at the specified heights above the ground cover level.

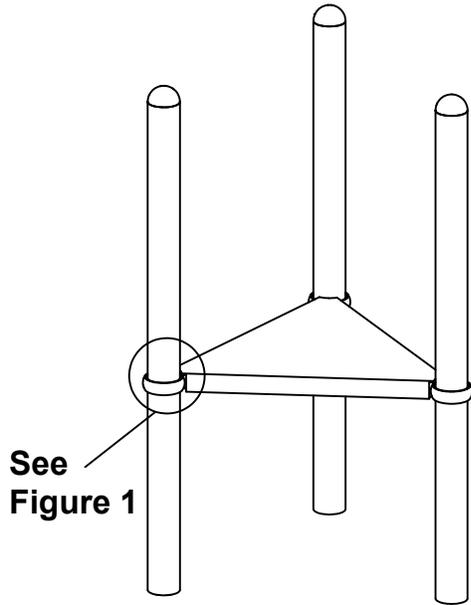
Step 4.

Fully tighten all fasteners.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately.

Assembly View



R5 DECK 2

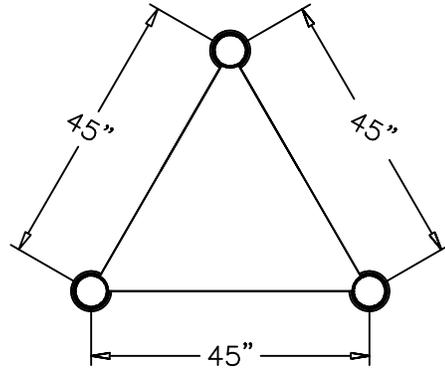
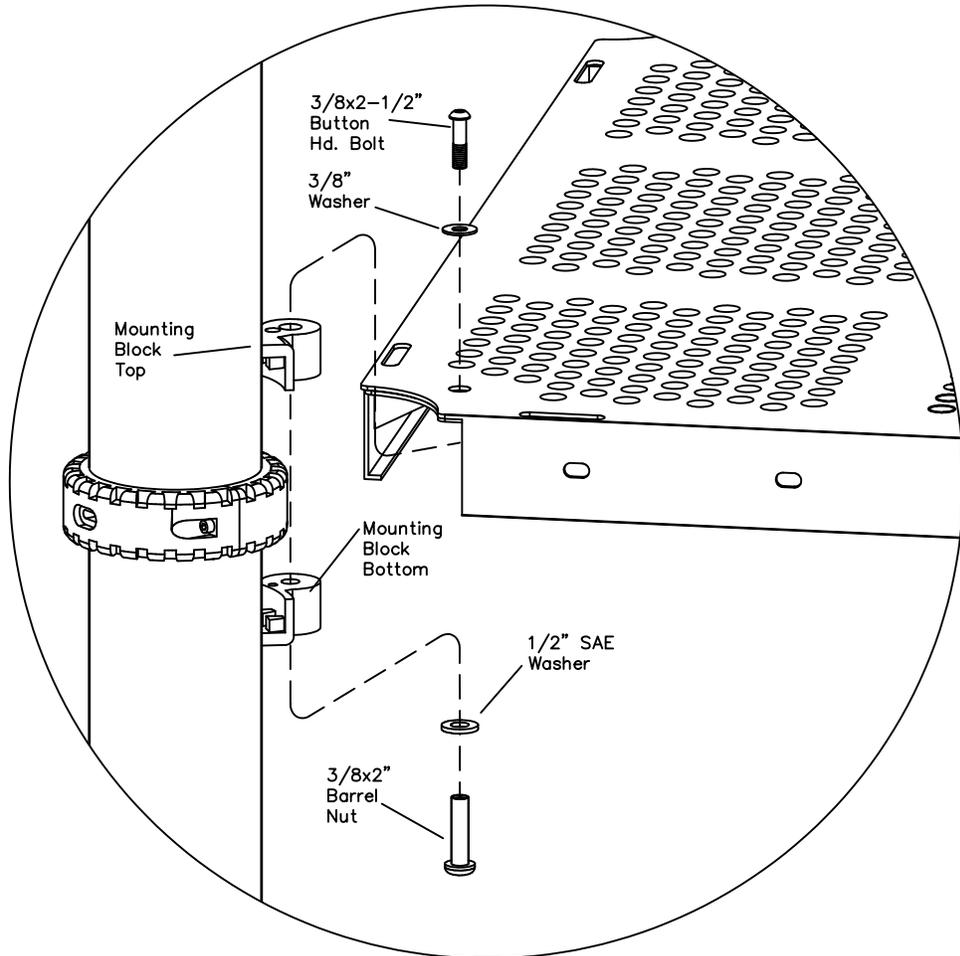


Figure 1



Parts List

QTY.	DESCRIPTION	PART #
1	R5 Deck 2	7009
3	Mounting Block Top	7006-T
3	Mounting Block Bottom	7006-B
3	3/8 x 2-1/2" Button Hd. bolts	9103112-TR
3	3/8 x 2" Barrel Nuts	9443092-TR
3	3/8" Washers	9333002
3	1/2" SAE Washers	9345002

Installation

Notes:

(A) All deck heights on your system's top view drawing are measured from the top of ground cover (finished grade). Post location dimensions are on centers.

(B) The collars are to be located 7/8" below the top of the deck (to the top of the collar). Refer to page R5-09 for Collar Assembly instructions.

(C) Never allow the gap between decks to be between 3-1/2" and 9". Deck fillers are provided for gaps between decks with 8" and 12" rise increments.

(D) Use liquid thread lock (such as Loctite) with all threaded hardware that does not include self-locking nuts.

Specifications

R5 DECK 2 (TRI-DECK):

Shall be constructed using 12 gauge sheet steel which shall be formed and fabricated into required designs. All steel decks and walking surfaces shall be punched with a uniform hole pattern and be finished with slip-resistant PVC (poly-vinyl-chloride) coating.

MOUNTING BLOCKS:

Shall be two part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Step 1.

Place Mounting Blocks on the support collars and lower Deck into place, aligning the holes with the Mounting Block holes.

Step 2.

Secure each corner (3) of Deck to the support post's collars using hardware as shown in Figure 1 .

Step 3.

Square and level all support posts and deck assemblies. Check to ensure that all deck assemblies are at the specified heights above the ground cover level.

Step 4.

Fully tighten all fasteners.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately.



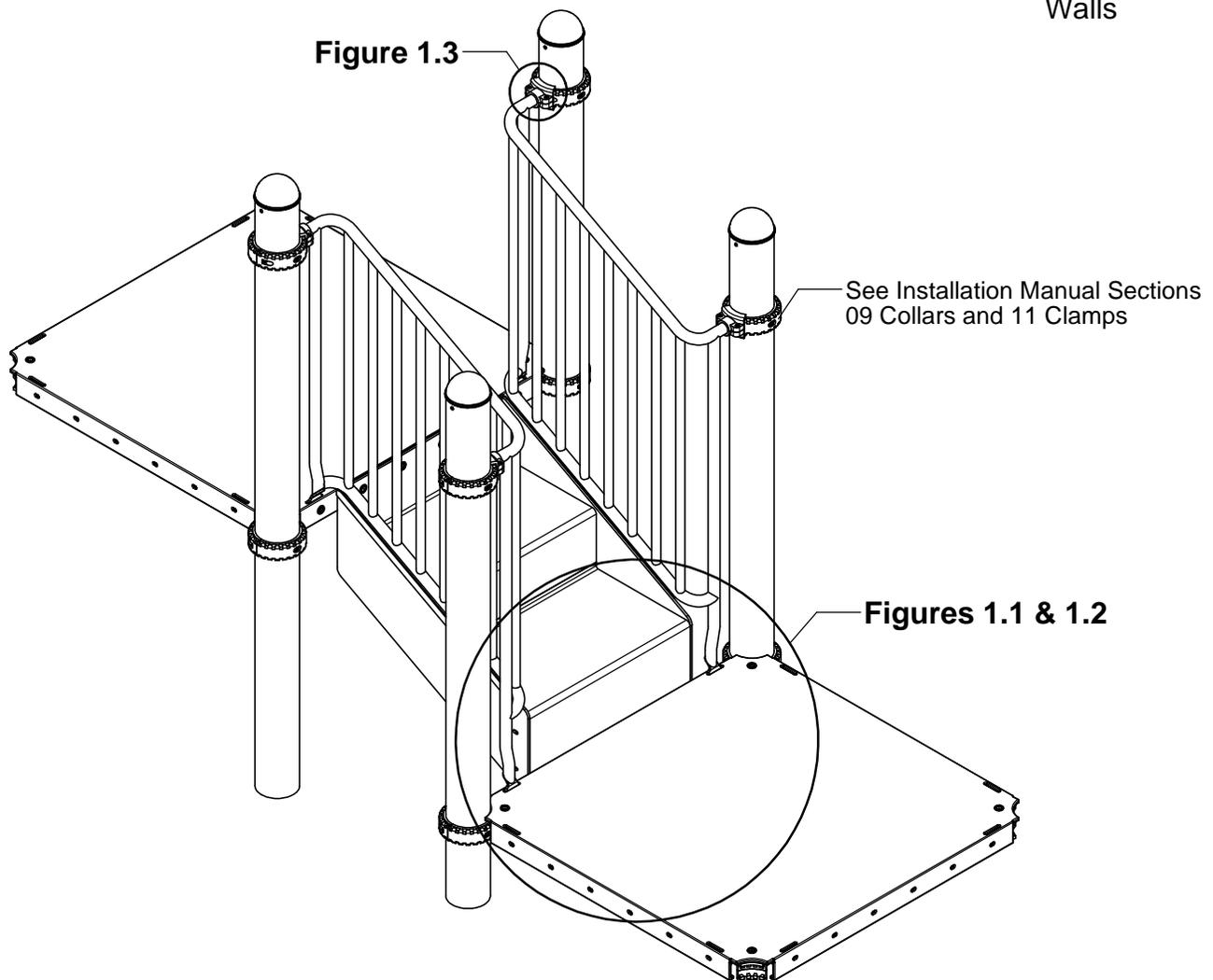
IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps installation instructions.

(C) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

**FIGURE 1
24" ADA Steps w/
Walls**



NOTE: R5 24" configuration shown. Other configurations will vary slightly, but does not affect the assembly.

Step 1

Attach ADA Steps to lower deck as shown in Figure 1.1.

Repeat for upper deck.
(See Note A)

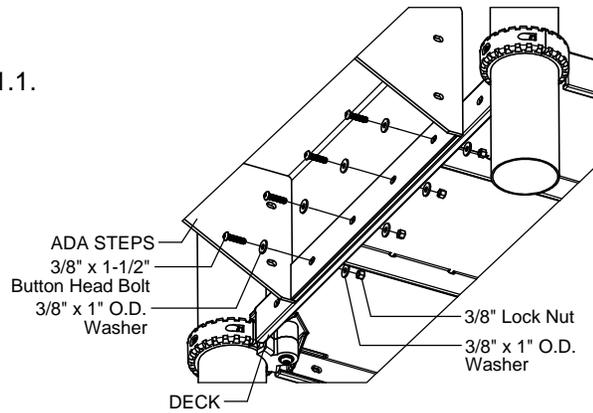


Figure 1.1

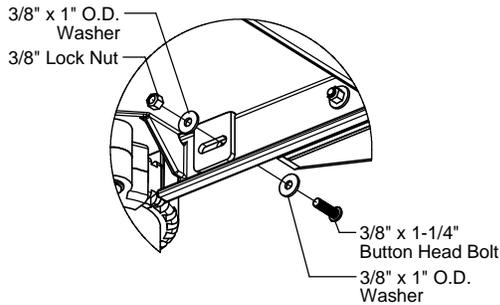


Figure 1.2

Step 2

Loosely attach ADA Step Walls to decks as shown in Figure 1.2. (See Note A)

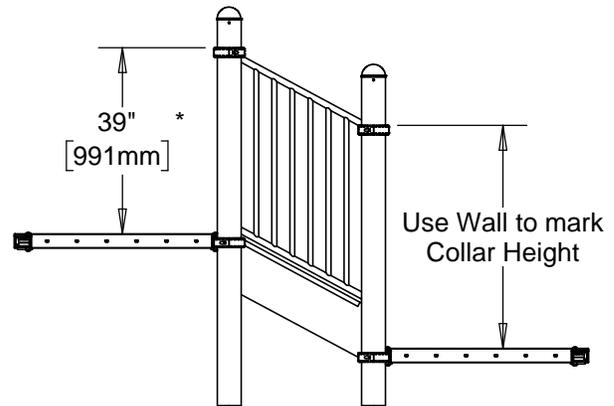


FIGURE 2

Step 3

Attach collars at height shown in Figure 2.
(See Note B)

* Height shown from top of deck to top of collar.

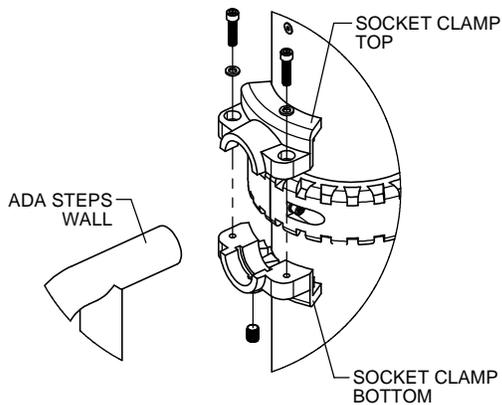


Figure 1.3

Step 4

Attach ADA Step Walls to collars as shown in Figure 1.3. (See Note B)

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Place appropriate compliant protective surfacing under and around ADA Steps.
(See Note C)

R5 Parts List

R5-1206-12 - 12" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4335	ADA Step 12-26	1
FS-1206-12R	ADA Steps 12-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-18 - 18" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4380	ADA Steps 18-26	1
FS-1206-18R	ADA Steps 18-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24 - 24" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4203	ADA Steps 24-26	1
FS-1206-24R	ADA Steps 24-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24R45 - ADA Steps w/ Walls 24"H x 45"L R5

Part #	DESCRIPTION	QTY.
CE-4911	ADA Steps 24-26-45 Run	1
FS-1206-24R45	ADA Steps 24-26-45 Wall Set	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24RCRV - 24" Curved Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CF-0848	Curved Steps 24" Rise R5	1
FS-1206-24CRVI	Curved Steps Inner Wall 24" Rise R5	1
FS-1206-24CRVO	Curved Steps Outer Wall 24" Rise R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-30 - 30" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4194	ADA Steps 30-26	1
FS-1206-30	ADA Steps 30-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-36 - 36" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4294	ADA Steps 36-26	1
FS-1206-36R	ADA Steps 36-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-42 - 42" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-0030	ADA Steps 42-26	1
FS-1206-42R	ADA Steps 42-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-48 - 48" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4486	ADA Steps 48-26	1
FS-1206-48R	ADA Steps 48-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12



R3.5 Parts List

R3.5-1206-12 - 12" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4335	ADA Step 12-26	1
FS-1206-12R35	ADA Steps 12-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-18 - 18" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4380	ADA Steps 18-26	1
FS-1206-18R35	ADA Steps 18-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-24 - 24" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4203	ADA Steps 24-26	1
FS-1206-24R35	ADA Steps 24-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-30 - 30" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4194	ADA Steps 30-26	1
FS-1206-30R35	ADA Steps 30-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-36 - 36" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4294	ADA Steps 36-26	1
FS-1206-36R35	ADA Steps 36-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-42 - 42" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-0030	ADA Steps 42-26	1
FS-1206-42R35	ADA Steps 42-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-48 - 48" ADA Steps w/ Walls R3.5

Part #	DESCRIPTION	QTY.
CE-4486	ADA Steps 48-26	1
FS-1206-48R35	ADA Steps 48-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

Specifications

ADA STEPS:

Shall be made using punched, formed, and welded 12 gauge sheet steel with reinforcing cross members and gussets. The ADA Steps shall be Play-Tuff™ coated after fabrication.

ADA STEP WALLS:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.029" O.D. 14 gauge steel rungs and 1/4" thick steel brackets. The ADA Step Walls shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

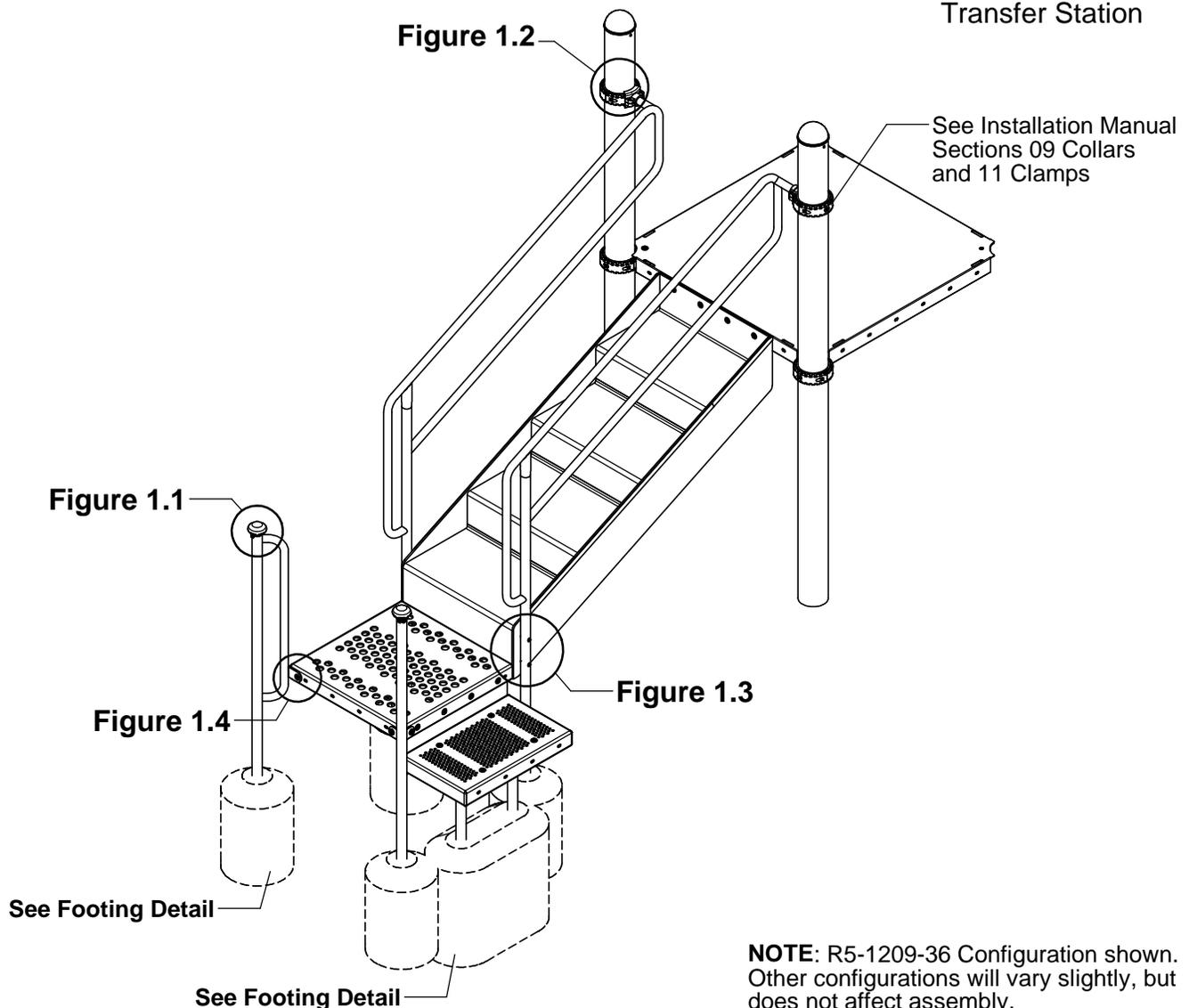
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 09 Collars and 11 Socket Clamps installation instructions.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Transfer Station



NOTE: R5-1209-36 Configuration shown. Other configurations will vary slightly, but does not affect assembly.

Step 1

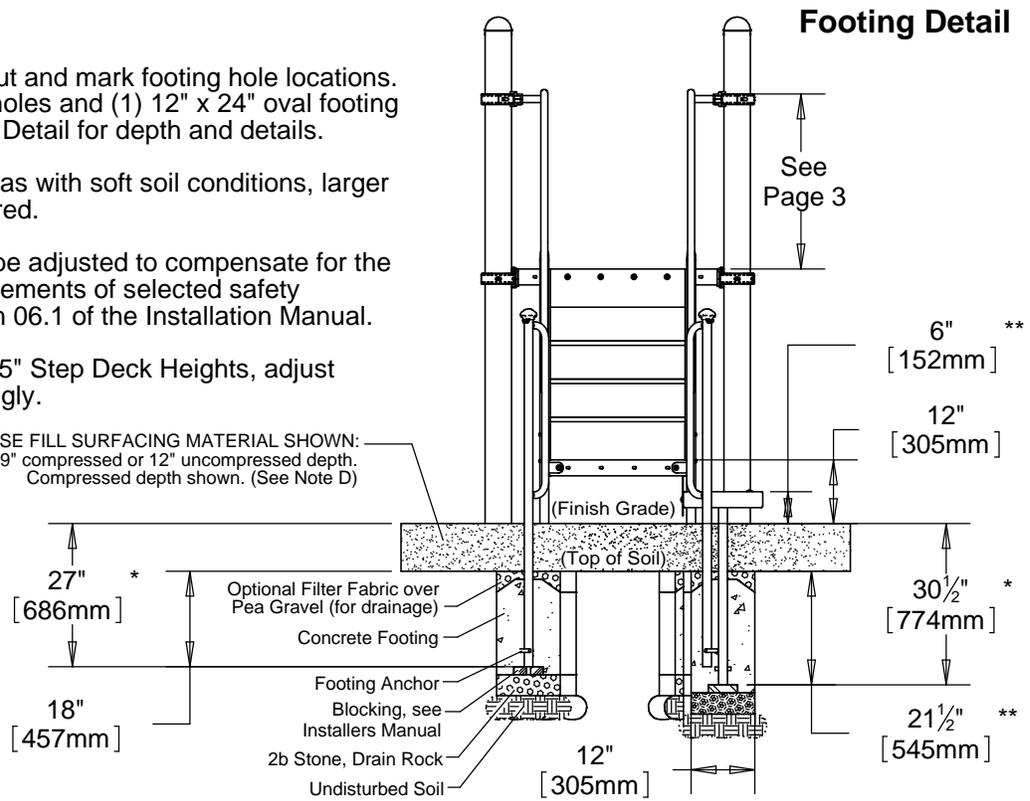
Refer to Footing Layout and mark footing hole locations. Dig (4) Ø 12" footing holes and (1) 12" x 24" oval footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

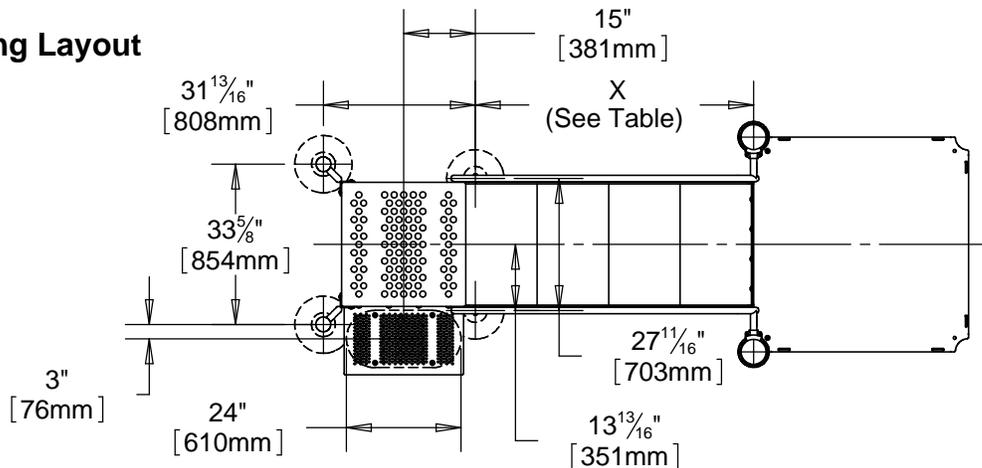
* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** For optional 4" and 5" Step Deck Heights, adjust footing depth accordingly.

LOOSE FILL SURFACING MATERIAL SHOWN:
9" compressed or 12" uncompressed depth.
Compressed depth shown. (See Note D)



Top View - Footing Layout



Footing Distance Table
Center of Post to Center of Footing

Deck Height	Assembly	X (in.)	X (mm)
24"	Transfer Station 12-24	13-1/4"	337
36"	Transfer Station 12-36	28-1/4"	717
42"	Transfer Station 12-42	43"	1092
48"	Transfer Station 12-48	58-1/4"	1480
60"	Transfer Station 12-60	73-1/4"	1861
72"	Transfer Station 12-72	103-1/4"	2623



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541.955.9199 (International)

Rev Q
4/12/2012

Step 2

Locate and attach collars to posts at height shown in Figure 2. (See Note C)

NOTE: Collar height varies based on Transfer Station Hand Rail Type.

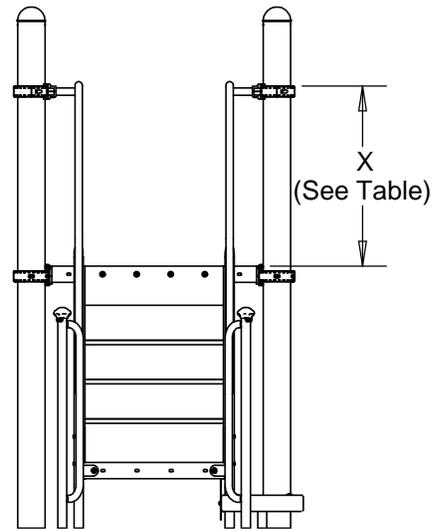
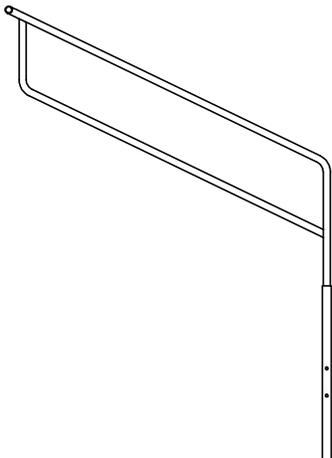
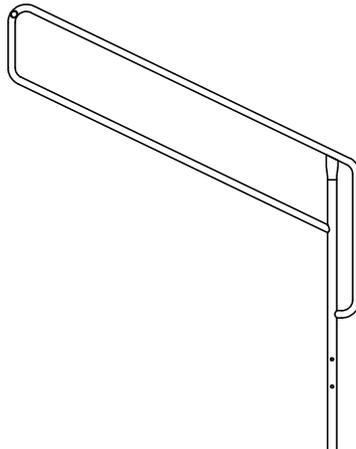


FIGURE 2
Transfer Station Hand Rail Identification
and Collar Height

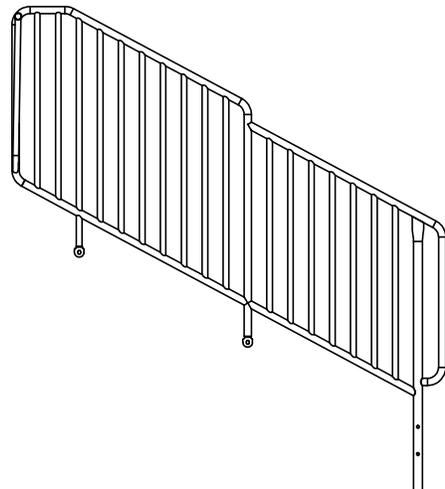
**RAIL
TYPE 1**



**RAIL
TYPE 2**



**RAIL
TYPE 3**



Collar Height Table Top of Deck to Top of Collar		
Hand Rail	X (in.)	X (mm)
TYPE 1	35-1/2"	902
TYPE 2 & 3	33"	838

Step 3 (Factory Assembled)

Attach Transfer Leg Top to Transfer Deck Support as shown in Figure 1.1. (See Note A)

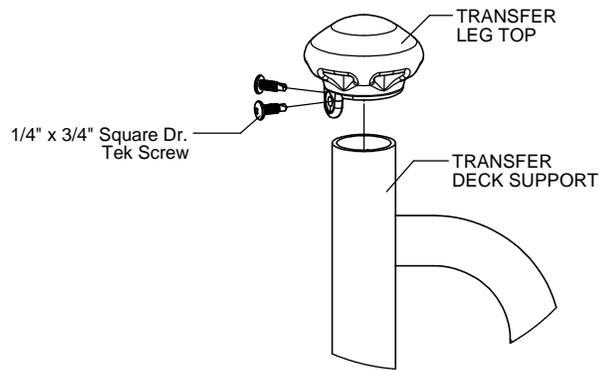


Figure 1.1

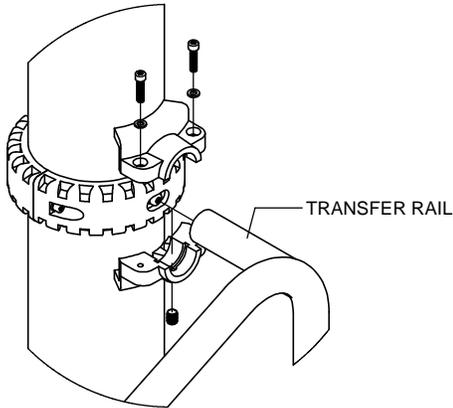


Figure 1.2

Step 4

Place Transfer Rails into footing holes and attach to collars as shown in Figure 1.2. (See Note C)

Step 5

Attach ADA Steps to Transfer Rails as shown in Figure 1.3. (See Note A)

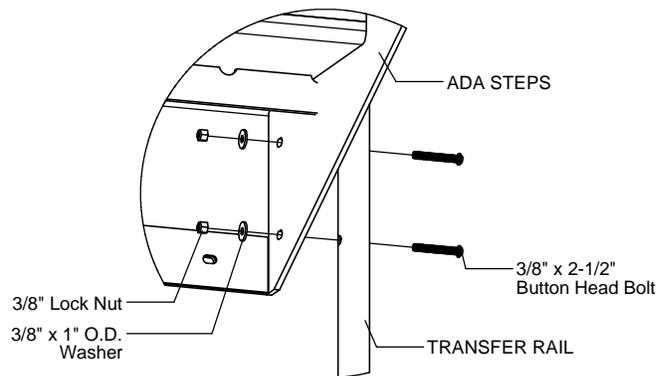


Figure 1.3

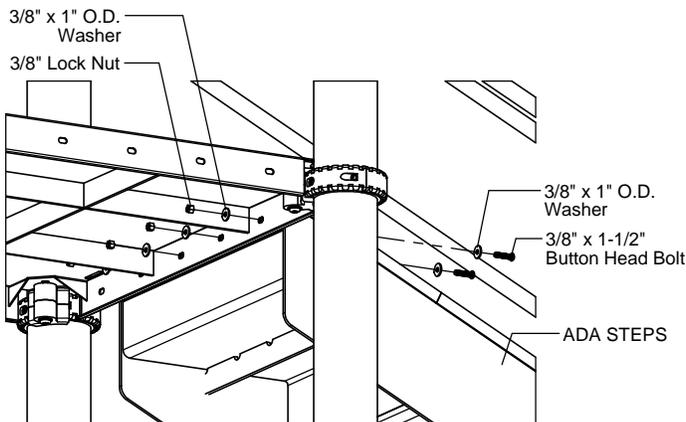


FIGURE 3

Step 6

Attach ADA Steps to deck as shown in Figure 3. (See Note A)

Step 7

For Transfer Station to 60" & 72" Decks Only

Attach Transfer Rail to ADA Steps as shown in Figure 4. (See Note A)

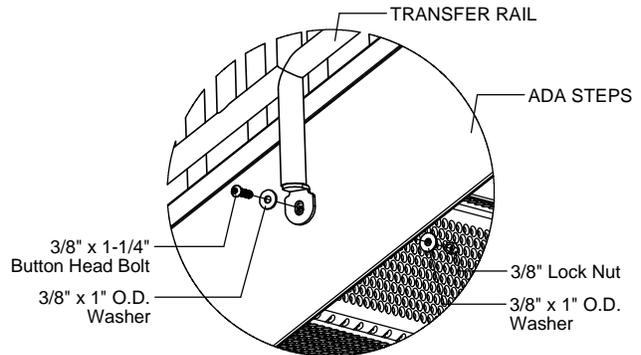


FIGURE 4

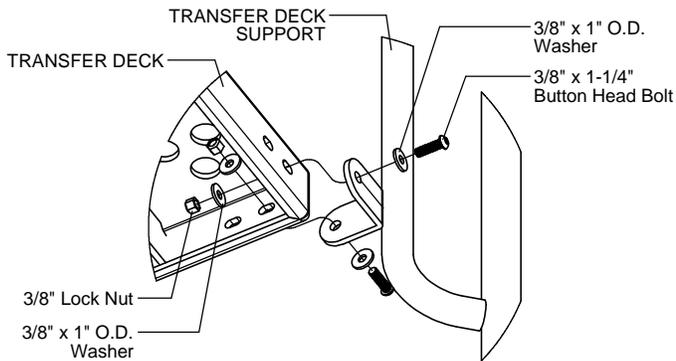


Figure 1.4

Step 8

Attach Transfer Deck Supports to Transfer Deck as shown in Figure 1.4. (See Note A)

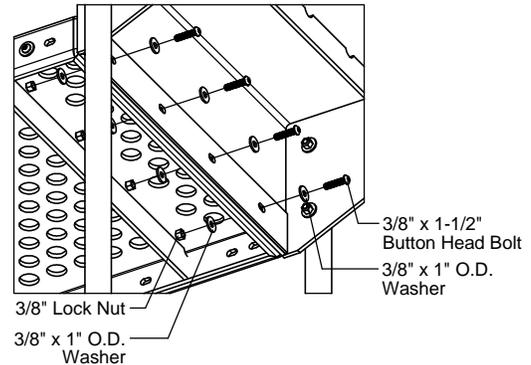


FIGURE 5

Step 9

Place Transfer Deck Supports into footing holes and attach Transfer Deck to ADA Steps as shown in Figure 5. (See Note A)

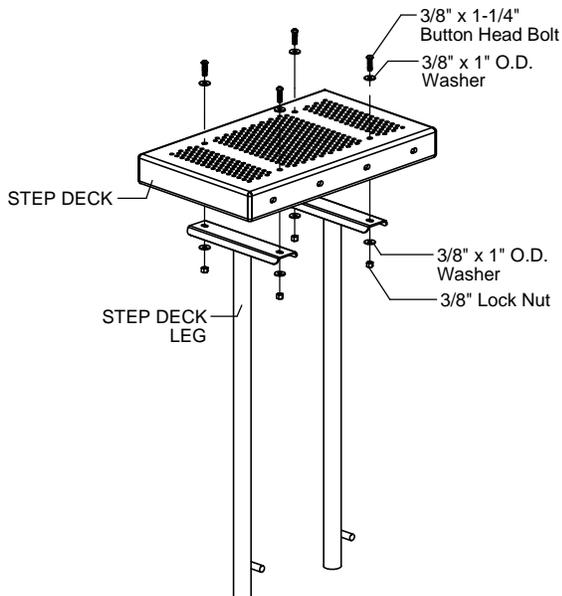


FIGURE 6

Step 10

Attach Step Deck Legs to Step Deck as shown in Figure 6. (See Note A)

Step 11

Place Step Deck Legs into footing holes and attach Filler to Transfer Deck and Step Deck as shown in Figure 7. (See Note A)

Step 12

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 13

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 14

Place required protective surfacing under and around Transfer Station. (See Note D)

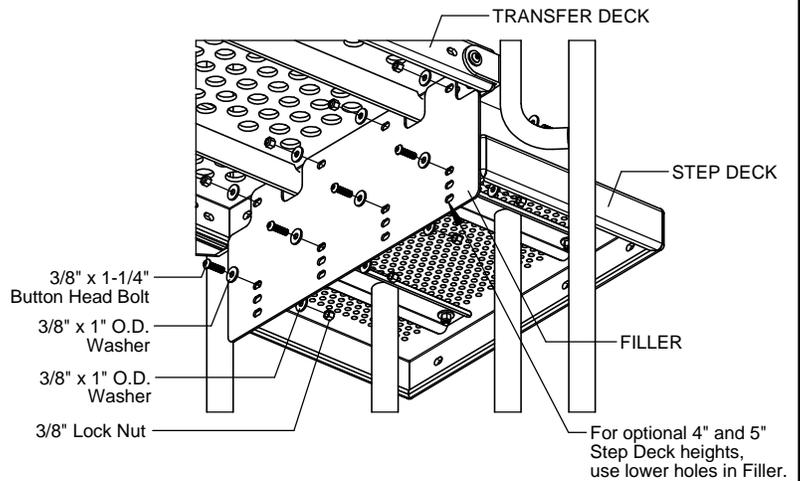


FIGURE 7

Specifications

STEP DECK LEG:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 10 gauge steel mounting bracket. The Step Deck Leg shall have a multi-stage baked-on powder coat finish.

STEP RAILS:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.660" O.D. 11 gauge steel leg. The Step Rails shall have a multi-stage baked-on powder coat finish.

TRANSFER STATION WALL:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.660" O.D. 11 gauge steel leg and 1.029" O.D. 14 gauge steel rungs. The Transfer Station Wall shall have a multi-stage baked-on powder coat finish.

STEPS & DECKS:

Shall be fabricated using punched, formed and welded 14 gauge sheet steel. Steps and Decks shall be Play-Tuff™ coated after fabrication.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

TRANSFER STATION INSTALLATION INSTRUCTIONS

1209
Page 7 of 7

Parts List

S-1209-12 - Transfer Station 12-24		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4335	ADA Step 12-26	1
FS-1202	Step Deck Leg	2
FS-1209-12	Transfer Station H Rail 24	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-36 - Transfer Station 12-48		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4294	ADA Steps 36-26	1
FS-1202	Step Deck Leg	2
FS-1209-36R	Transfer Station H. Rail 48	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-24 - Transfer Station 12-36		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4203	ADA Steps 24-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-24R	Transfer Station H. Rail 36	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-48 - Transfer Station 12-60		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4486	ADA Steps 48-26	1
FS-1202	Step Deck Leg	2
FS-1209-48	Transfer Station Wall 60	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	20
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	60
9413002	Nut Lock 3/8"	32

S-1209-30 - Transfer Station 12-42		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4194	ADA Steps 30-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-30R	Transfer Station H. Rail 42	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-60 - Transfer Station 12-72		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-0166	ADA Steps 60-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-60	Transfer Station Wall 72	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	20
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	60
9413002	Nut Lock 3/8"	32

Assembled Parts List

Part #	DESCRIPTION	QTY.
FS-1209A	Transfer Deck Support	2
GE-4636	Transfer Leg Top	2
9271032	Screw Tek 1/4" x 3/4" PH SQDR	4

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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541.955.9199 (International)

Rev Q
4/12/2012

IMPORTANT NOTES: Read First

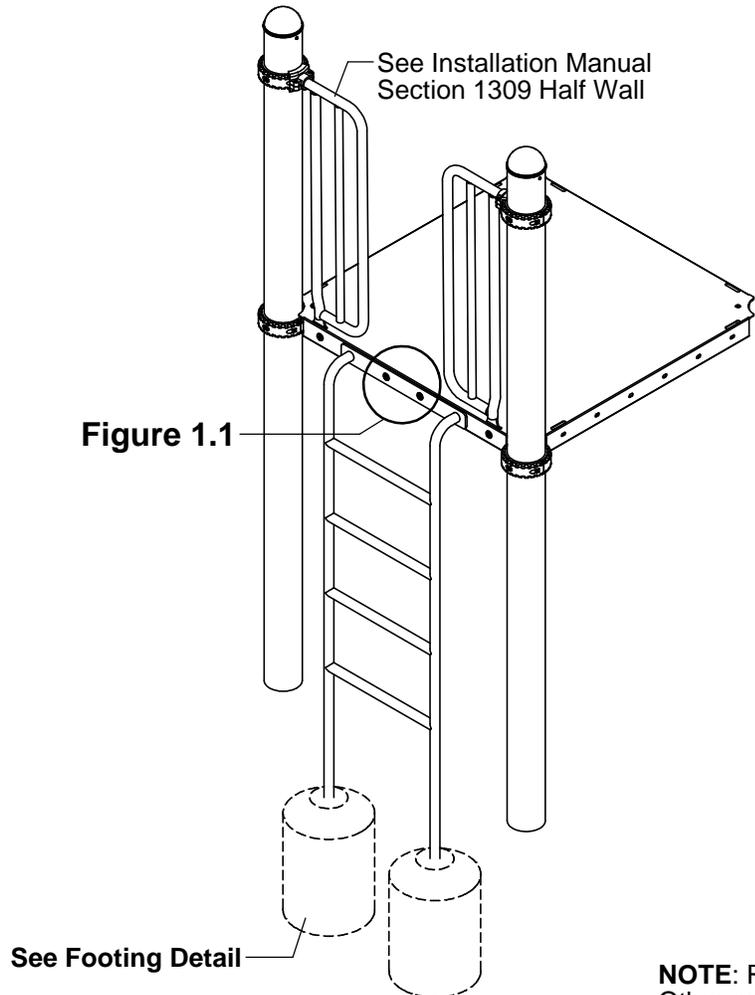
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 1309 Half Wall installation instructions.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

**FIGURE 1
Vertical Ladder**



NOTE: R5 5' Vertical Ladder shown. Other configurations will vary slightly, but does not affect assembly.

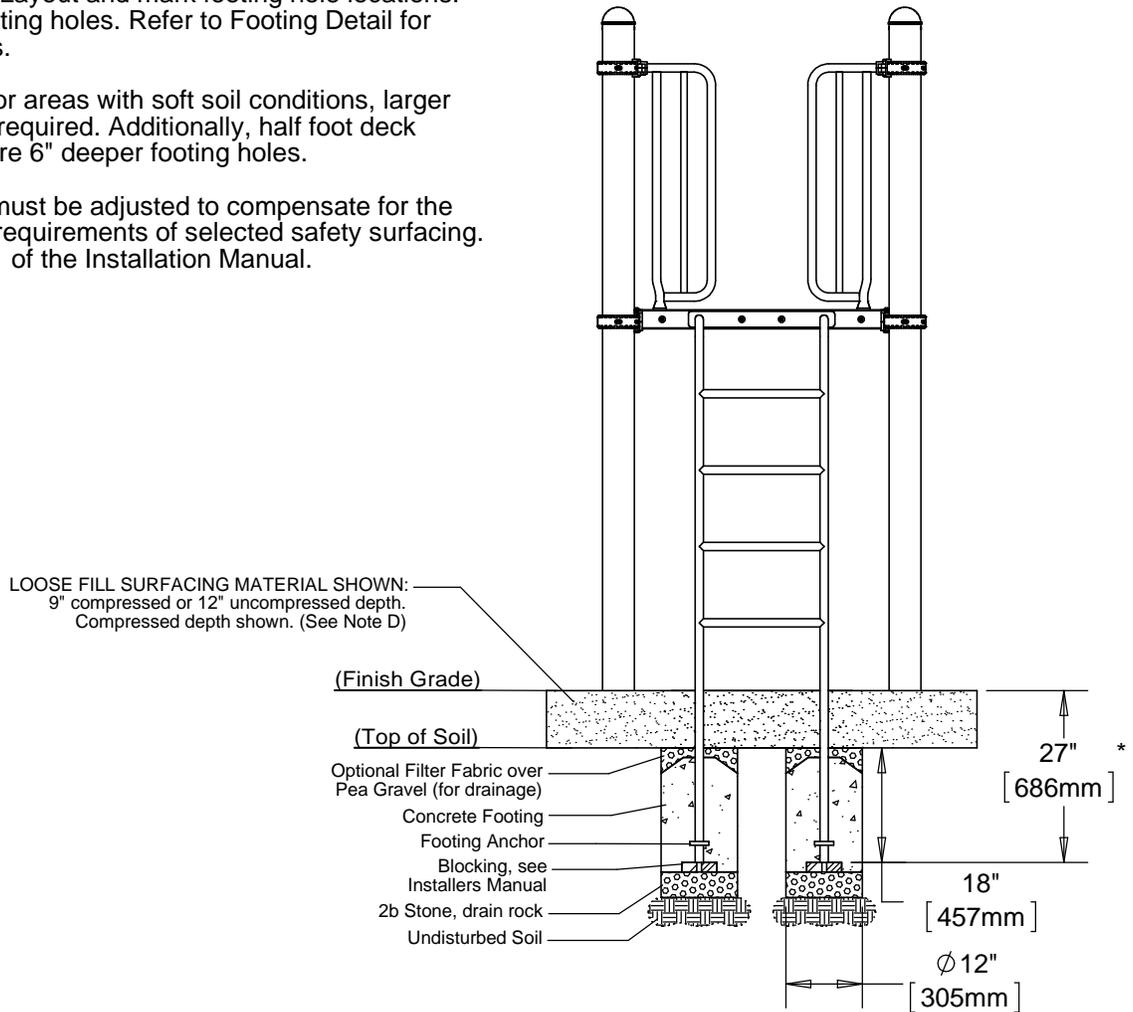
Step 1

Refer to Footing Layout and mark footing hole locations. Dig (2) Ø 12" footing holes. Refer to Footing Detail for depth and details.

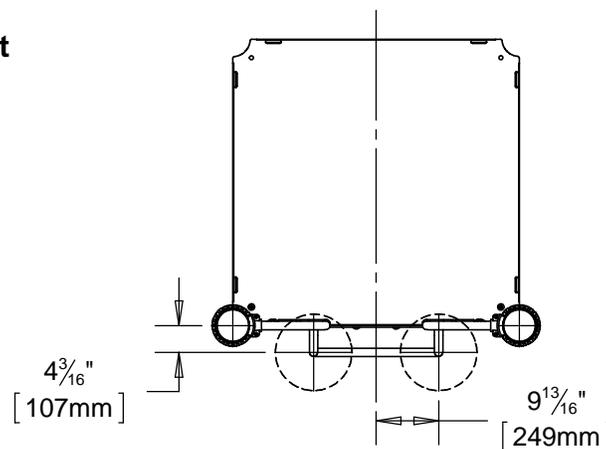
IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, half foot deck heights will require 6" deeper footing holes.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

Footing Detail



Top View - Footing Layout



Step 2

Attach Half Walls to Deck. Place Vertical Ladder into footing holes and attach to deck as shown in Figure 1.1. (See Notes A & C)

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 4

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 5

Place required protective surfacing under and around Vertical Ladder. (See Note D)

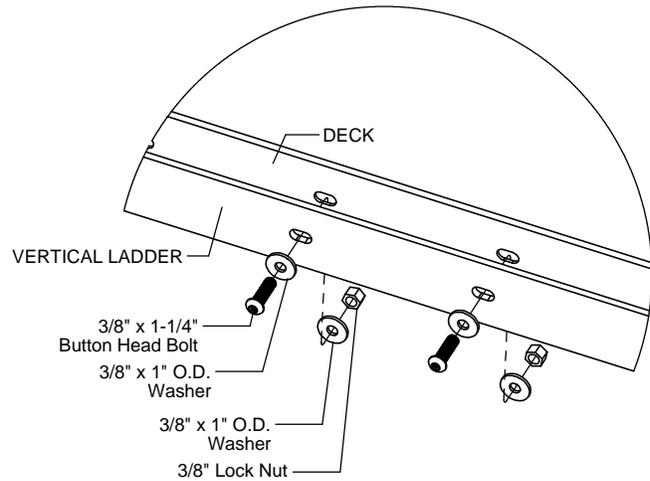


Figure 1.1

Parts List

Part #	DESCRIPTION	QTY.
Varies	Vertical Ladder	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

Specifications

VERTICAL LADDER:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.315" O.D. 12 gauge steel rungs and 1/4" thick steel mounting plate. The Vertical Ladder shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

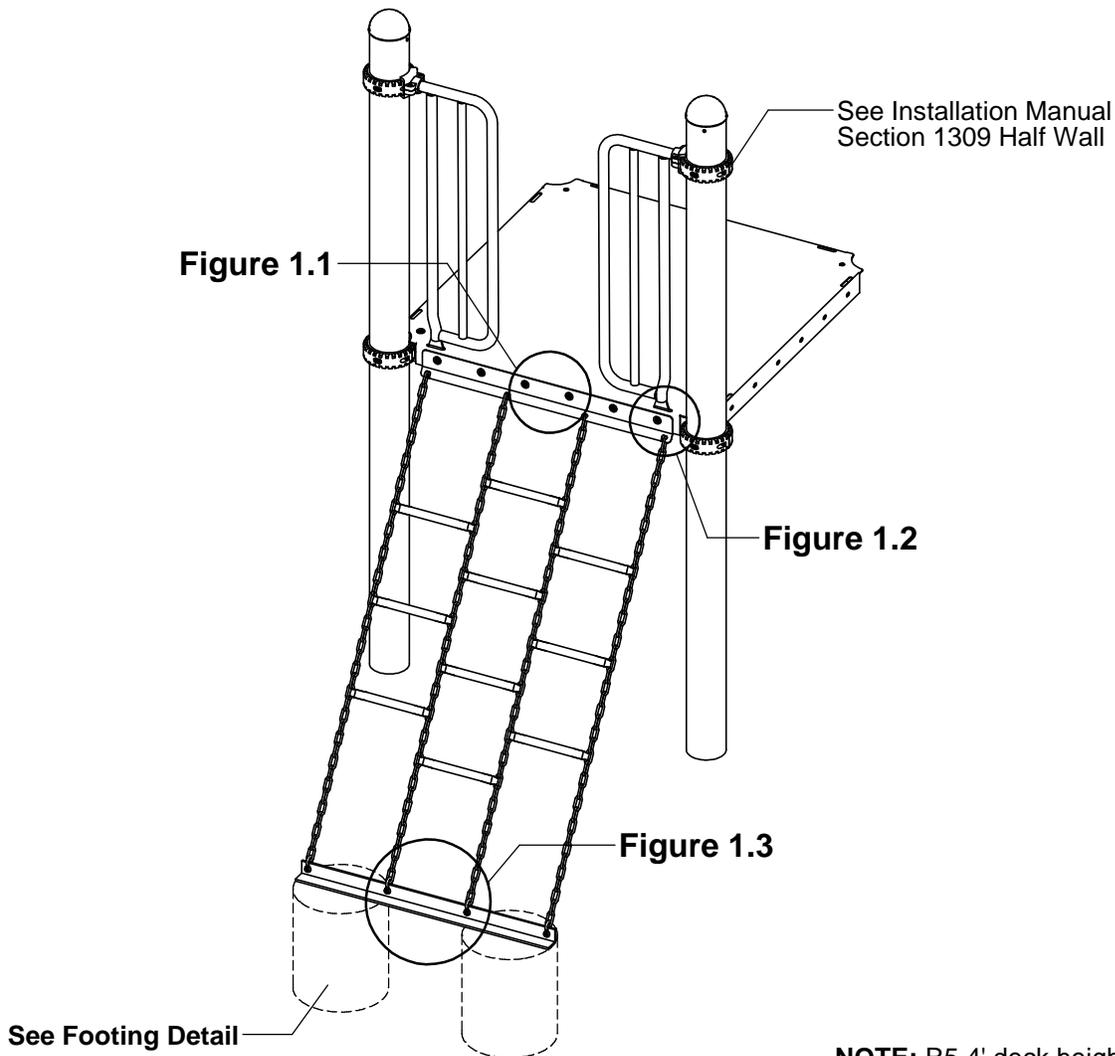
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 1309 Half Wall assembly instructions.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Chain Net Climber



NOTE: R5 4' deck height shown.
Other configurations will vary slightly,
but does not affect assembly.

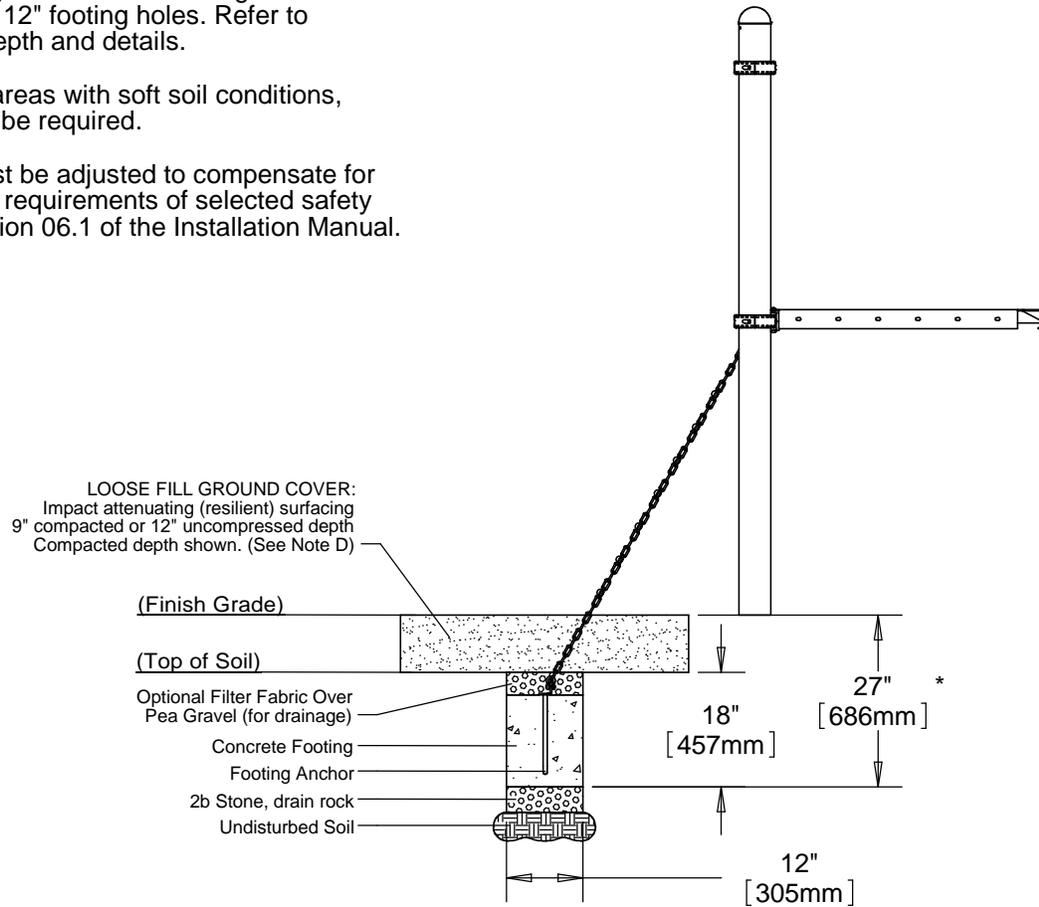
Step 1

Refer to Footing Layout and mark footing hole locations. Dig (2) Ø 12" footing holes. Refer to Footing Detail for depth and details.

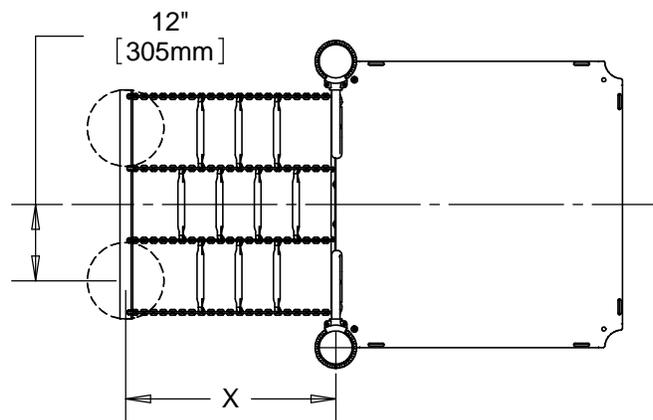
IMPORTANT: For areas with soft soil conditions, larger footings may be required.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

Footing Detail



Top View - Footing Layout



Footing Distance Table
Center of Post to Center of Footing

Deck Height	x (in.)	x (mm)
24"	19	482
30"	22.5	571
36"	26	660
42"	29.5	749
48"	33	838
54"	36.5	927
60"	40	1016
66"	43.5	1105
72"	47	1194

Step 2

Attach Chain Net Climber to deck as shown in Figure 1.1. (See Note A)

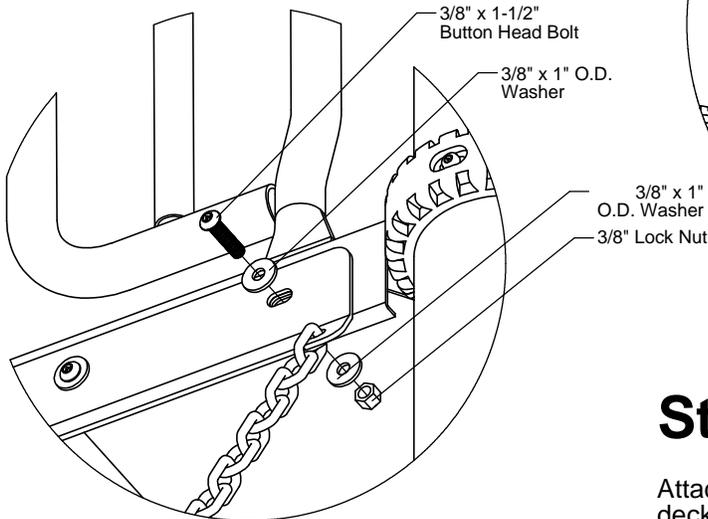


Figure 1.2

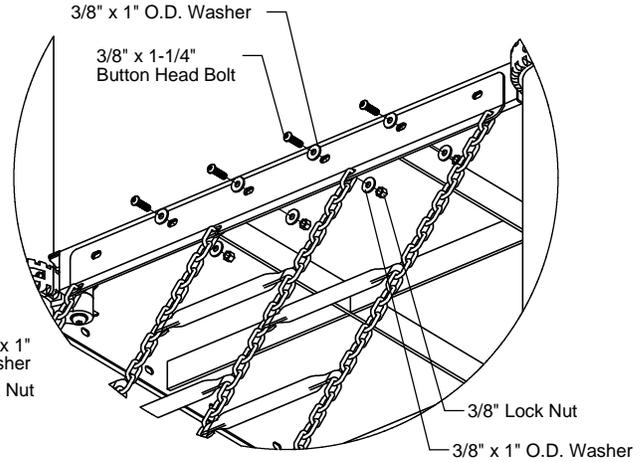


Figure 1.1

Step 3

Attach Half Walls to deck. Confirm the slot alignment of deck, Chain Net Climber Mount and Half Wall Tabs, then attach as shown in Figure 1.2. (See Notes A & C)

NOTE: Use (2) 3/8" x 1-1/2" Button Head Bolts included with Chain Net Climber.

Step 4

Attach Chain Net to Chain Net Foot as shown in Figure 1.3. (See Note A)

NOTE: To maintain desired angle and slack, chain length adjustments will be required for some deck heights.

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Pour concrete into footing holes. Keep chains tight while setting the base of the Chain Net Foot on top of the concrete and the footing anchors in the concrete.

Brace Chain Net to maintain approximate position during concrete curing process. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 7

Place appropriate compliant protective surfacing under and around Chain Net Climber. (See Note D)

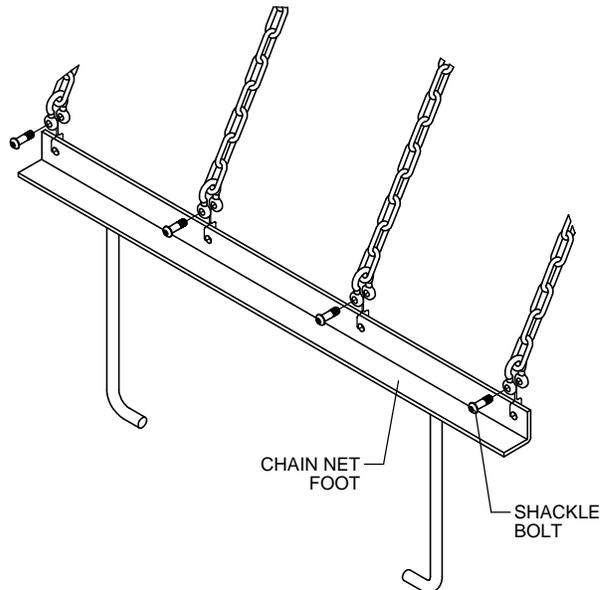


Figure 1.3

Specifications

CHAIN NET:

Rungs shall be constructed of 1.029" O.D. 14 gauge steel tubing and welded to lengths of 5/0 chain. Mount bracket and plugs shall be fabricated from 10 gauge sheet steel. Rungs, chains, mount bracket, and plugs shall be assembled and Play-Tuff™ coated.

CHAIN NET FOOT:

Shall be fabricated from 2"x2"x1/4" angle iron welded to 5/8" O.D. round steel. Chain Net Foot shall have a multi-stage, baked-on powder coating.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

24" to 48" DECK HEIGHT

Part #	DESCRIPTION	QTY
FS-1221	Chain Net Foot	1
HE-4374	Chain Net #4 3-4H	1
451165	Shackle w/Bolt	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	12
9413002	Nut Lock 3/8"	6

54" to 72" DECK HEIGHT

Part #	DESCRIPTION	QTY
FS-1221	Chain Net Foot	1
HE-4296	Chain Net #3 5-6H	1
451165	Shackle w/Bolt	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	12
9413002	Nut Lock 3/8"	6

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

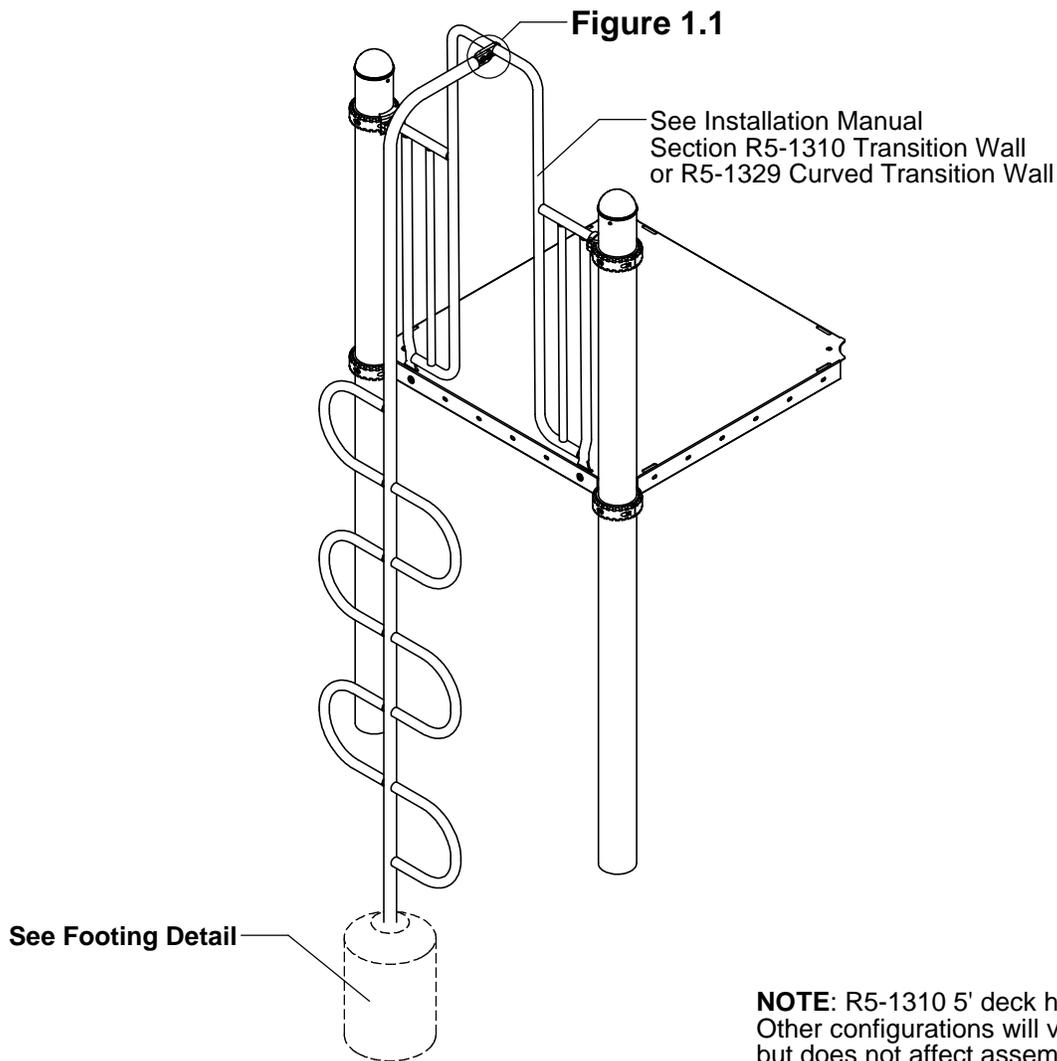
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for R5-1310 Transition Wall or R5-1329 Curved Transition Wall assembly instructions.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Snake Climber



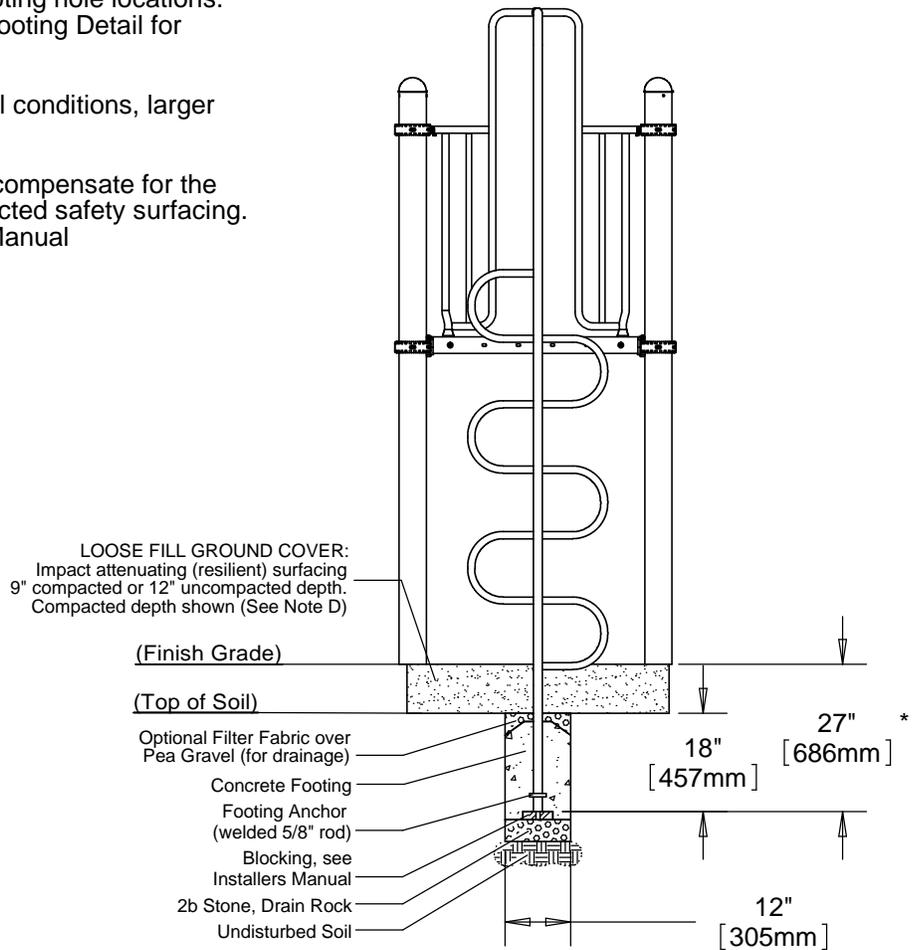
Step 1

Refer to Footing Layout and mark footing hole locations. Dig (1) Ø 12" footing hole. Refer to Footing Detail for depth and details.

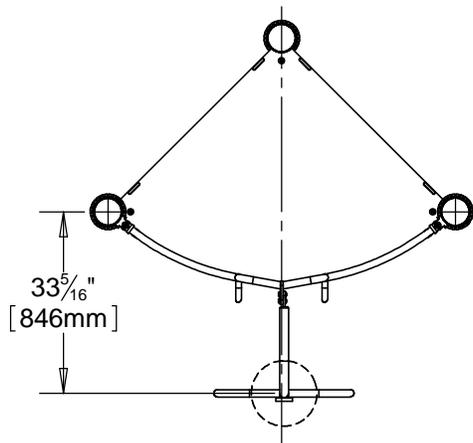
IMPORTANT: For areas with soft soil conditions, larger footings may be required.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual

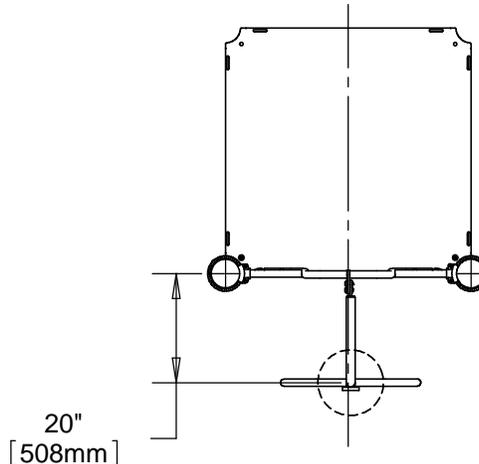
Footing Detail



Top View - Footing Layout
R5 Curved Deck Configuration



Top View - Footing Layout
R5 Square Deck Configuration



Step 2

Attach appropriate Transition Wall to deck. Place Snake Climber in the footing hole and attach to the Transition Wall as shown in Figure 1.1. (See Notes A & C)

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 4

Plumb and level entire component. Pour concrete into footing hole. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 5

Place appropriate compliant protective surfacing under and around Snake Climber. (See Note D)

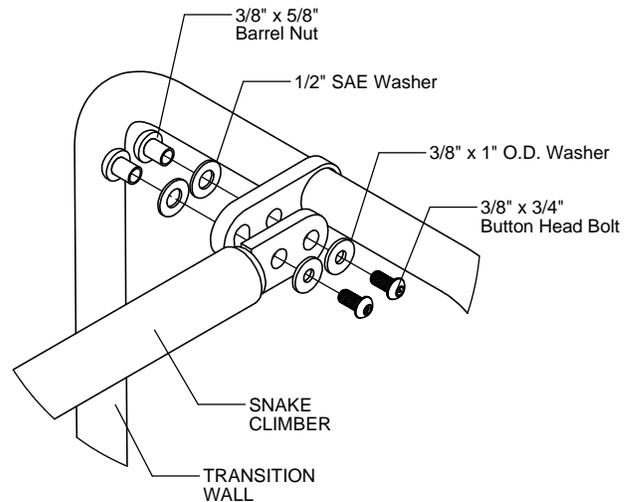


Figure 1.1

Specifications

SNAKE CLIMBER:

Shall be constructed of 1.660" O.D 11 gauge steel tubing with welded 1.315" O.D 12 gauge steel tube rungs. The Snake Climber has a multi-stage baked on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

Part #	DESCRIPTION	QTY
Varies	Snake Climber R5	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	2
9345002	Washer Flat SAE 1/2"	2
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

IMPORTANT NOTES: Read First

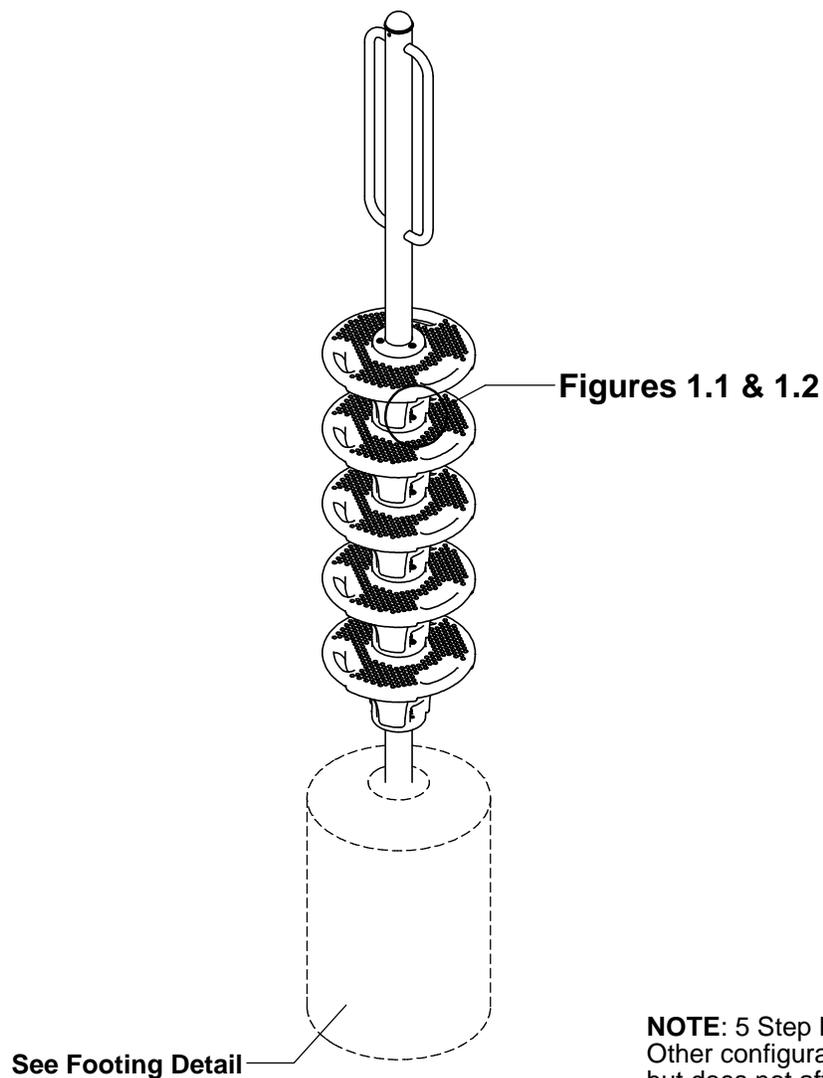
(A) Use liquid thread lock (such as Loctite[®]) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) The maximum distance from center of post footing to center of deck face is 21" [533 mm] or 34" [864 mm] between center of post footings. Additionally, all handles must point towards each other or towards a conjunctive deck.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Disc Climber



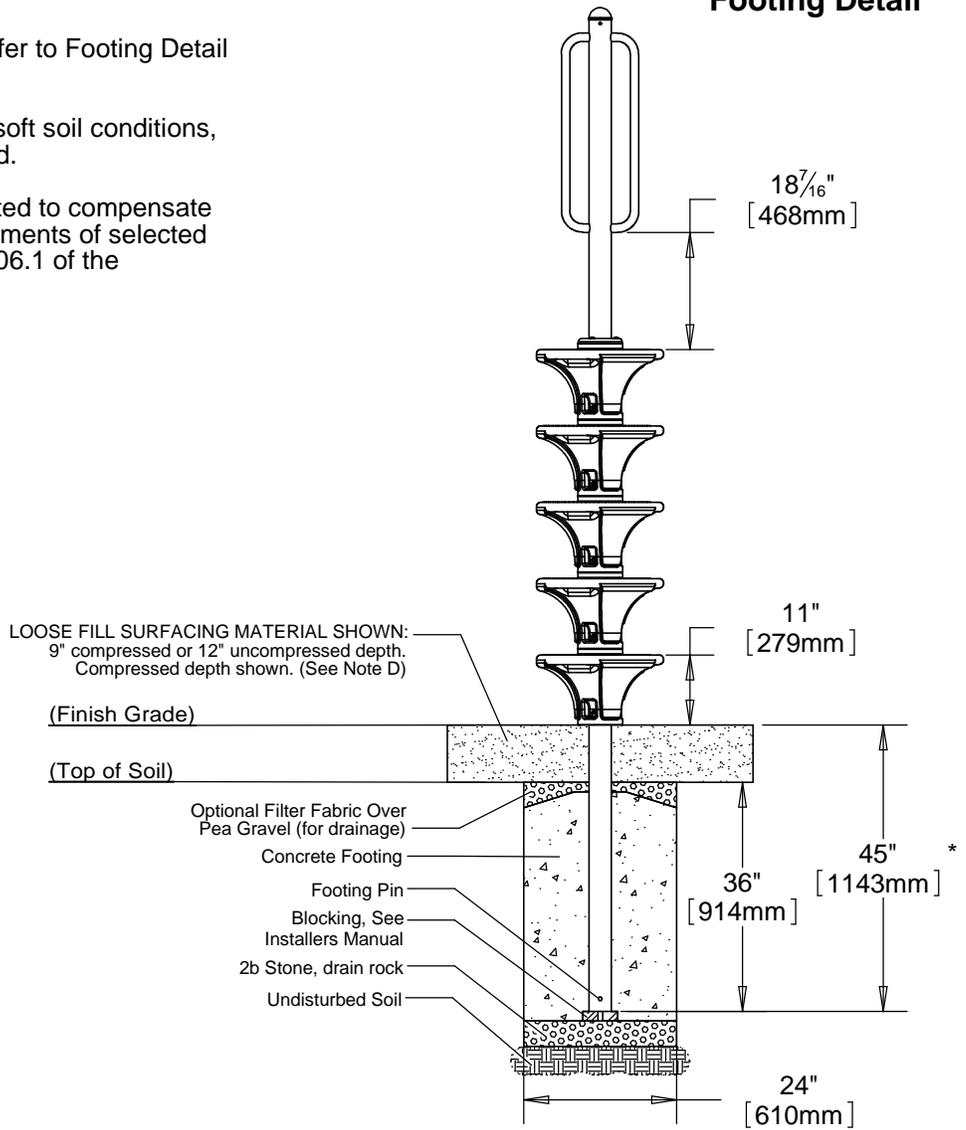
Step 1

Dig (1) Ø 24" footing hole. Refer to Footing Detail for depth and details.

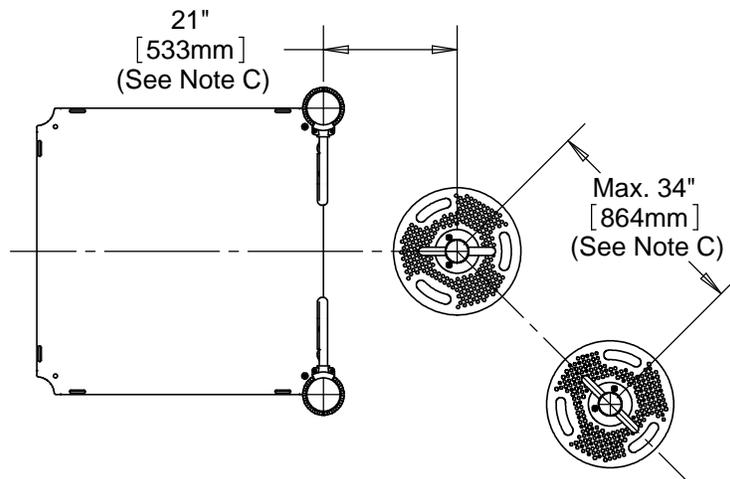
IMPORTANT: For areas with soft soil conditions, larger footings may be required.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

Footing Detail



**Top View
Footing Layout Requirements**



Step 2 (Factory Assembled)

Attach Dome Post Cap to Disc Climber Post as shown in Figure 2.

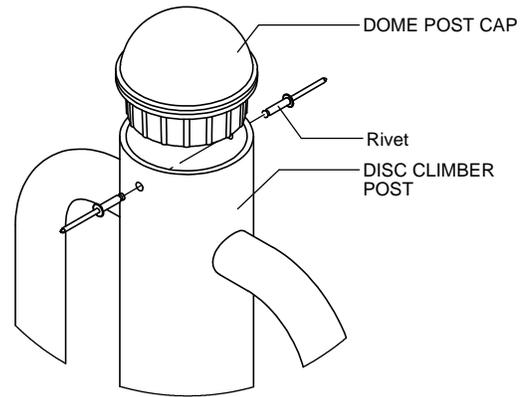


FIGURE 2

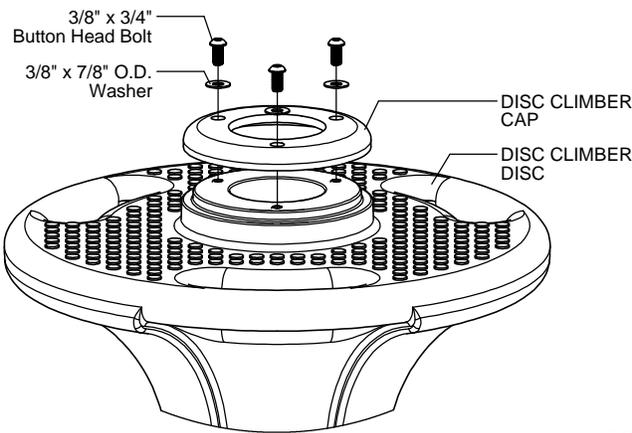


FIGURE 3

Step 3 (Factory Assembled)

Attach Disc Climber Cap to top Disc Climber Disc as shown in Figure 3. (See Note A)

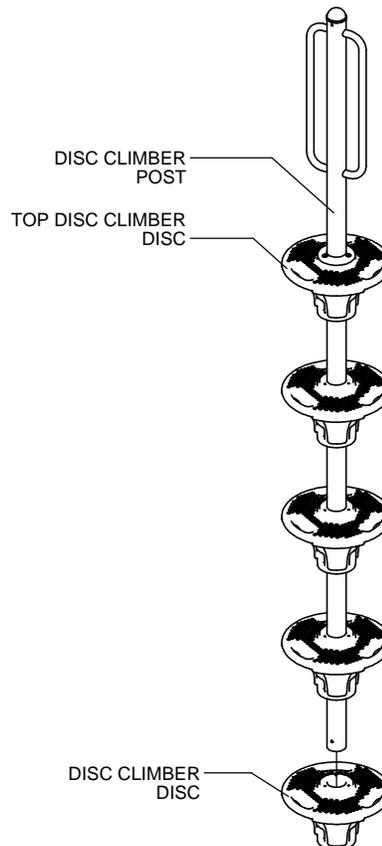


FIGURE 4

Step 4 (Factory Assembled)

Starting with the top Disc Climber, slide Discs onto Disc Climber Post as shown in Figure 4.

**Step 5 (Factory Assembled)
FOR EACH ADDITIONAL DISC**

Attach Disc Climber Disc to Disc Climber Disc as shown in Figure 1.1. (See Note A)

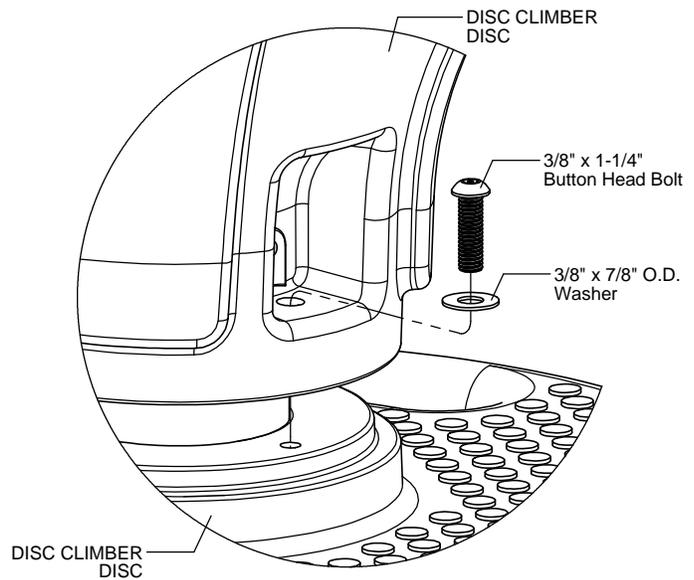


Figure 1.1

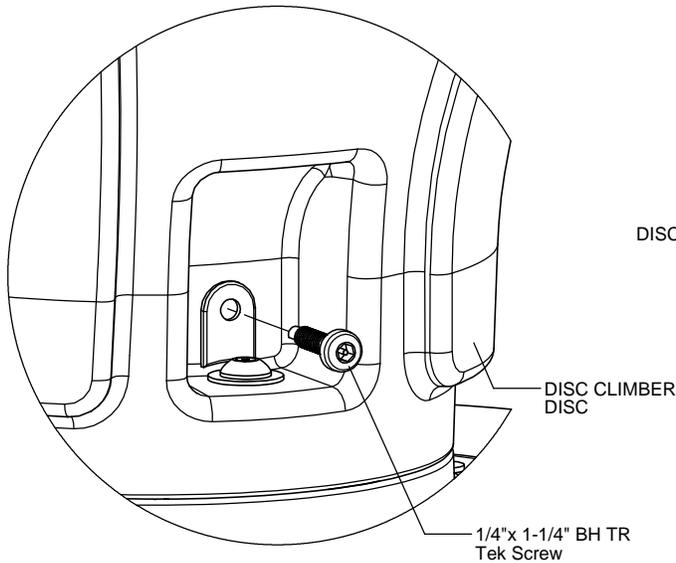


Figure 1.2

Step 6 (Factory Assembled)

Refer to Top View for orientation of handles to top Disc Climber Disc and position as shown in Footing Detail. Secure Disc Climber Disc(s) to Disc Climber Post as shown in Figure 1.2.

Step 7

Install Anchor Pin to Disc Climber Post and place into footing hole as shown in Figure 5. (See Notes A, B, & C)

Step 8

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 9

Plumb and level entire component. Pour concrete into footing hole. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 10

Place required protective surfacing under and around Disc Climber. (See Note D)

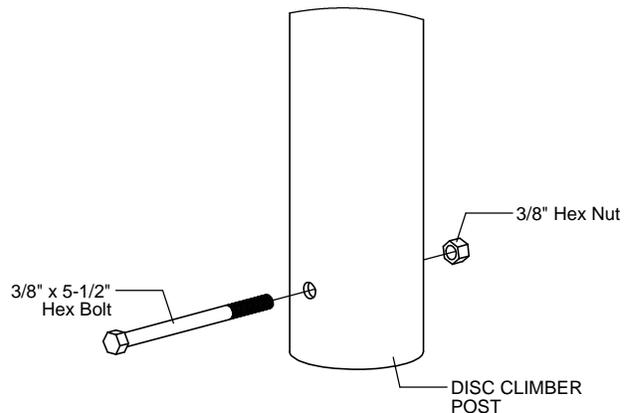


FIGURE 5

Assembled Parts List

1 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	1
EG-4442	Disc Climber Cap	1
FS-1233-1	Disc Climber Post 12"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	3
9333042	Washer Flat 3/8" x 7/8" O.D.	3
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

2 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	2
EG-4442	Disc Climber Cap	1
FS-1233-2	Disc Climber Post 24"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	3
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	6
9333042	Washer Flat 3/8" x 7/8" O.D.	6
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

3 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	3
EG-4442	Disc Climber Cap	1
FS-1233-3	Disc Climber Post 36"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	9
9333042	Washer Flat 3/8" x 7/8" O.D.	9
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

4 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	4
EG-4442	Disc Climber Cap	1
FS-1233-4	Disc Climber Post 48"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	9
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	12
9333042	Washer Flat 3/8" x 7/8" O.D.	12
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

5 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	5
EG-4442	Disc Climber Cap	1
FS-1233-5	Disc Climber Post 60"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	15
9333042	Washer Flat 3/8" x 7/8" O.D.	15
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

6 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	6
EG-4442	Disc Climber Cap	1
FS-1233-6	Disc Climber Post 72"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	15
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	18
9333042	Washer Flat 3/8" x 7/8" O.D.	18
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

Parts List

Part #	DESCRIPTION	QTY
9123231	Bolt Hex 3/8" x 5-1/2"	1
9483602	Nut Hex 3/8"	1

Specifications

DISC CLIMBER CAP:

Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV protection and color retention.

DISC CLIMBER DISC:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

DISC CLIMBER POST:

Shall be fabricated using 3.5" O.D. 8 gauge steel tubing with welded 1.315" O.D. 12 gauge steel handles. The Disc Climber Post shall have a multi-stage baked-on powder coat finish.

POST CAP R3.5 DOME:

Shall be precision die cast from a high-strength aluminum alloy. The Post Cap R3.5 Dome shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

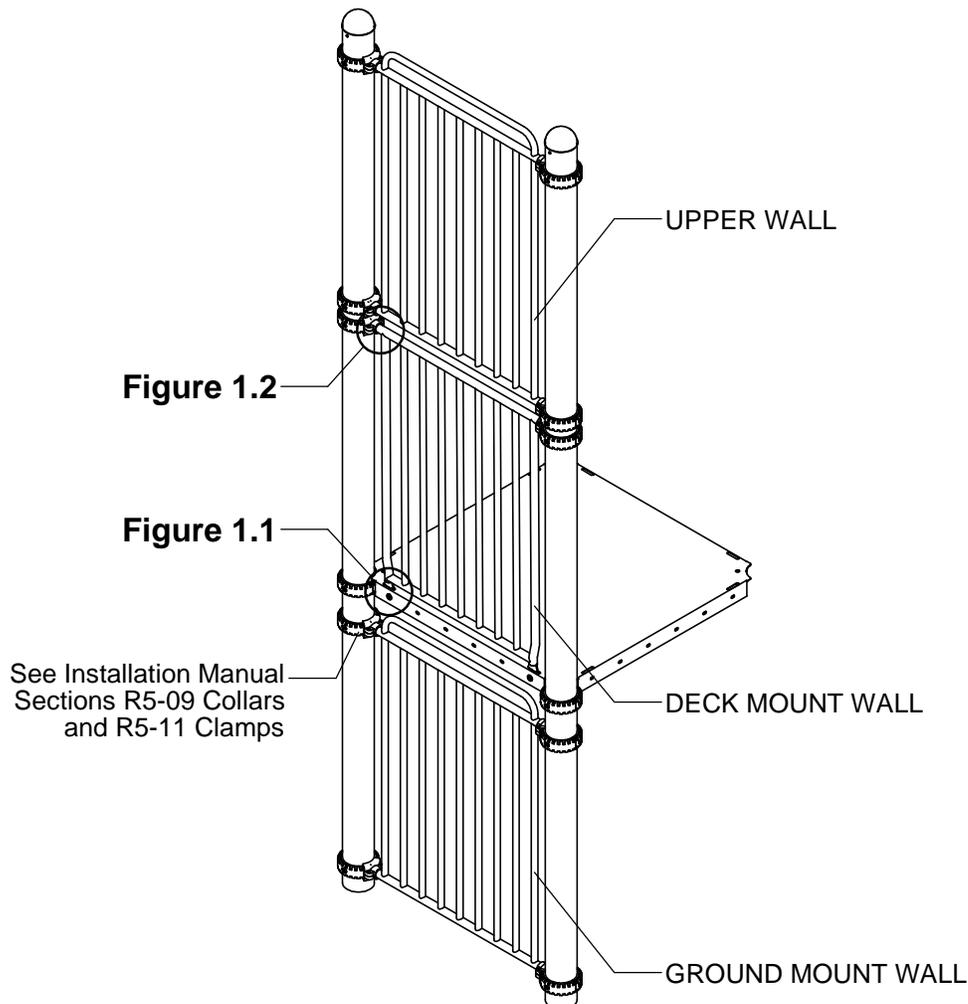
(B) Refer to Installation Manual for R5-09 Collars and R5-11 Socket Clamps assembly instructions.

(C) All gaps created (e.g. between walls, between wall and deck, between wall and roof, etc.) must be less than 3-1/2" [89mm] or greater than 9" [229mm].

(D) Collar heights will vary with different walls. Use wall to locate collar heights.

(E) These instructions apply for all configurations of R5 Walls, Short Walls, and Upper Walls.

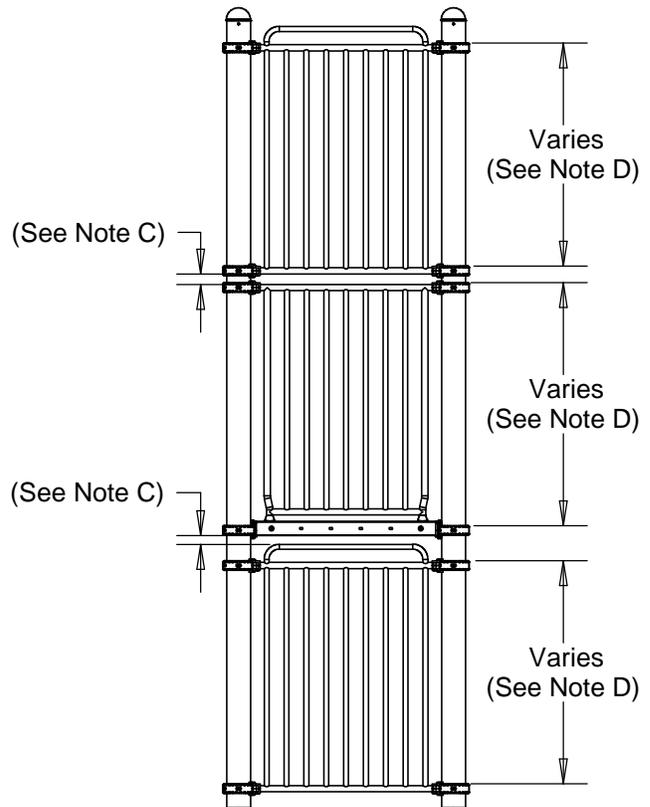
FIGURE 1
Steel Bar Wall Assembly



Step 1

Use the Wall to locate and attach collars.
Refer to Elevation View for notes.

ELEVATION VIEW



Step 2 (For Deck Mount Only)

Attach Wall to Deck as shown in Figure 1.1.
(See Note A)

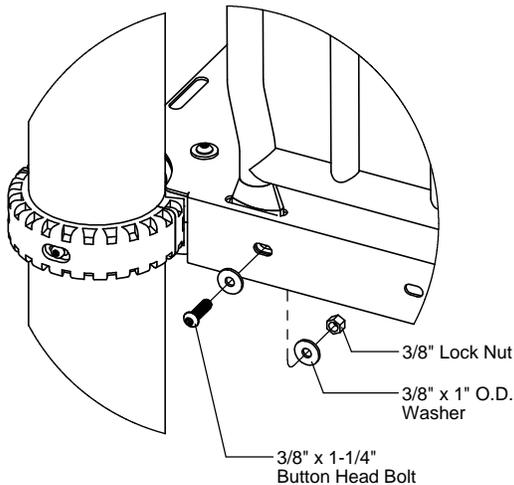


Figure 1.1

Step 3

Attach Wall to collars as shown in Figure 1.2.
(See Note B)

Step 4

Fully tighten all fasteners according to the
"TIGHTENING TORQUE FOR HARDWARE"
section of the Installation Manual.

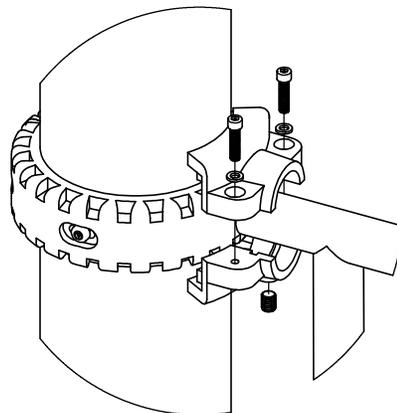


Figure 1.2

Specifications

R5 STEEL BAR WALL:

Shall be fabricated by welding 1.029" O.D. 14 gauge steel vertical rails between 1.315" O.D. 12 gauge steel horizontal rails. Ground and Upper walls will have a 1.029" O.D. 14 gauge top rail. The R5 Steel Bar Wall will have a multi-stage baked-on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

DECK MOUNT

Part #	DESCRIPTION	QTY
HS-1001-R5	Socket Clamp Set R5	2
Varies	R5 Steel Bar Wall	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

GROUND / UPPER MOUNT

Part #	DESCRIPTION	QTY
HS-1001-R5	Socket Clamp Set R5	4
Varies	R5 Steel Bar Wall	1

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

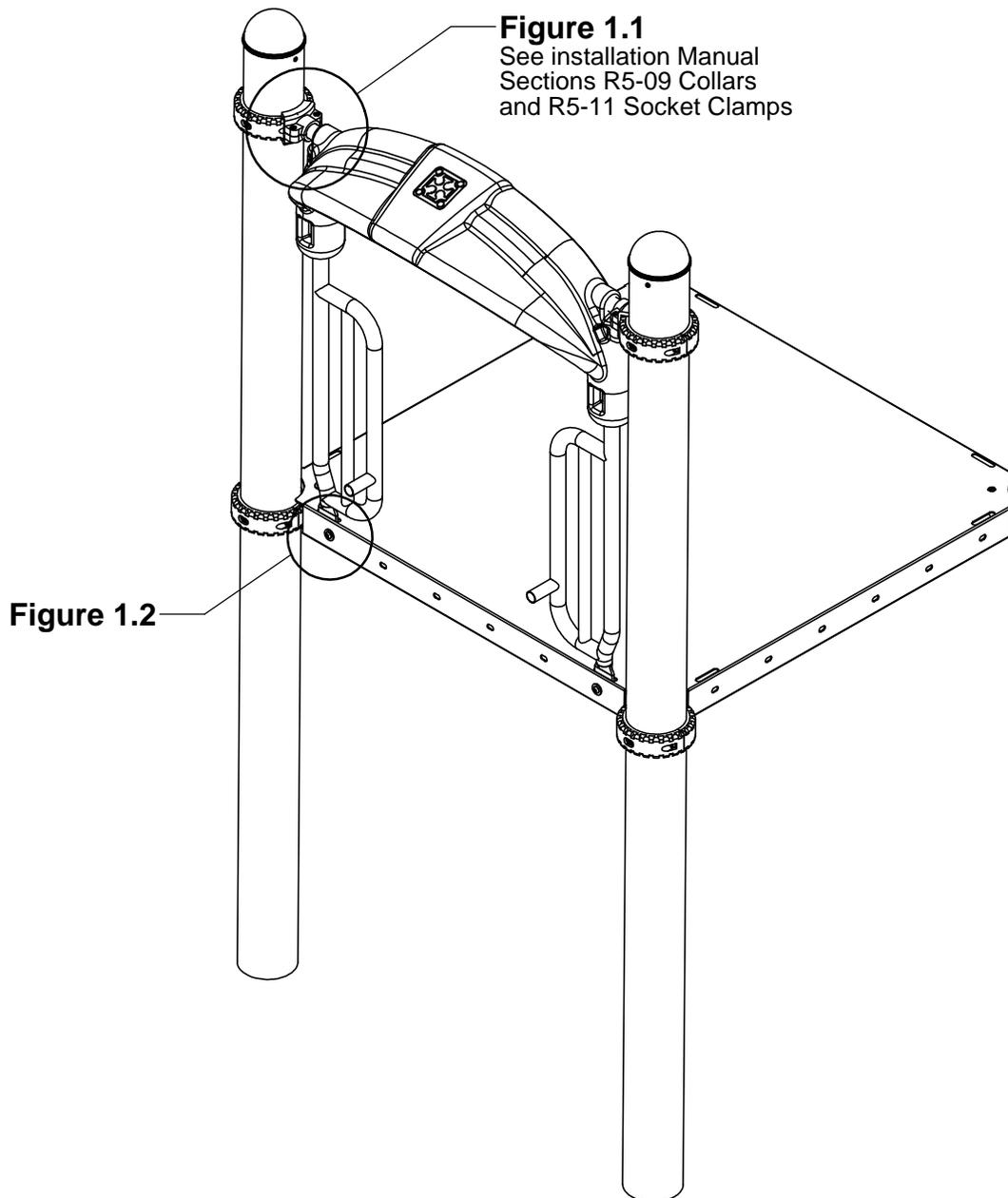


IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for R5-09 Collars and R5-11 Socket Clamps assembly instructions.

FIGURE 1
Slide Sit Down Hood



Step 1 (Factory Assembled)

Attach Sit Down Hood Guards to the Slide Hood as shown in Figure 2.

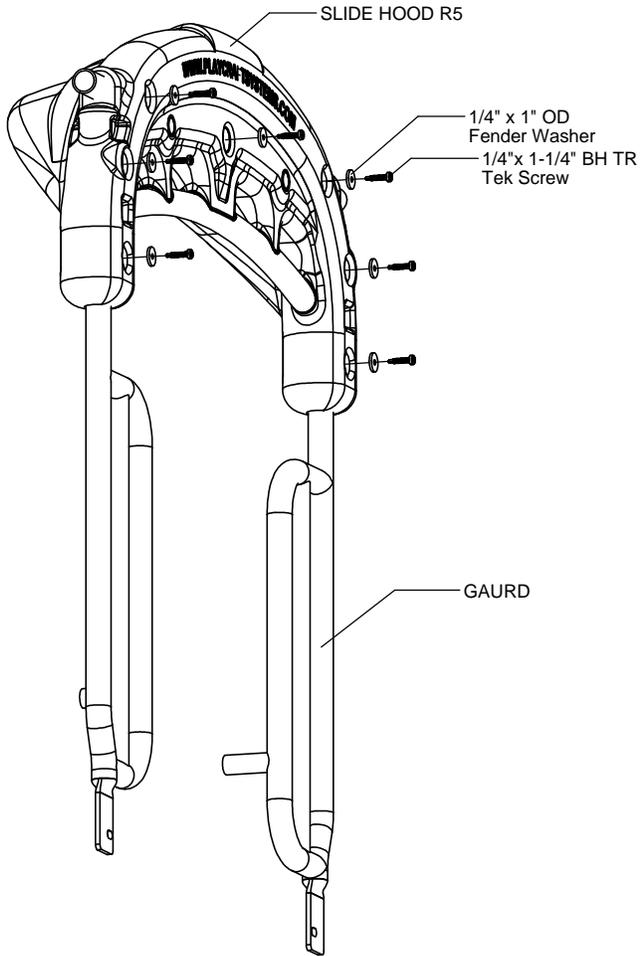
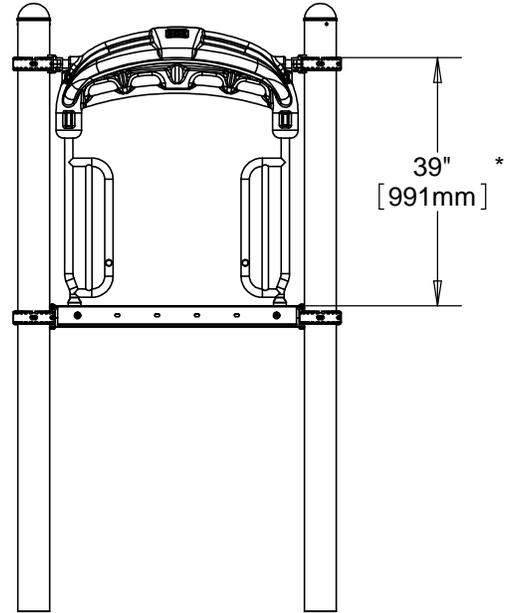


FIGURE 2



FRONT ELEVATION

Step 2

Locate and attach collars at the height shown in Front Elevation (See Note B).

* Height shown from top of deck to top of collar.

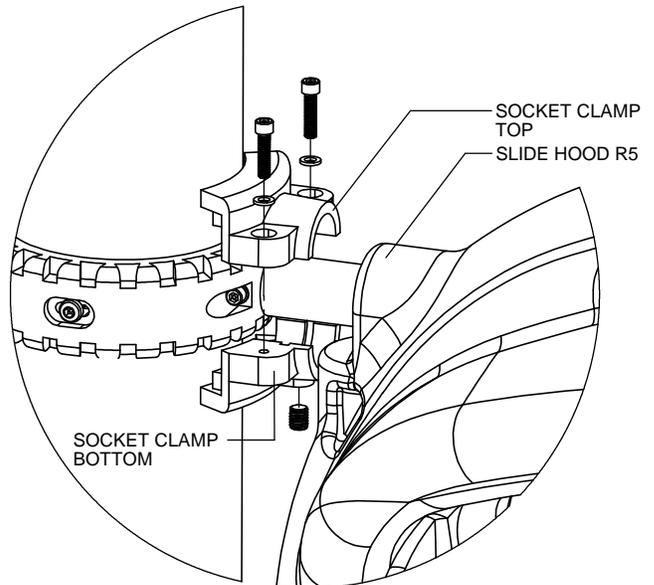


Figure 1.1

Step 3

Insert the bottom tabs of Slide Sit Down Hood into the slots of Deck and attach Slide Sit Down Hood to collars as shown in Figure 1.1. (See Note B)

Step 4

Attach Slide Sit Down Hood to Deck as shown in Figure 1.2. (See Note A)

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

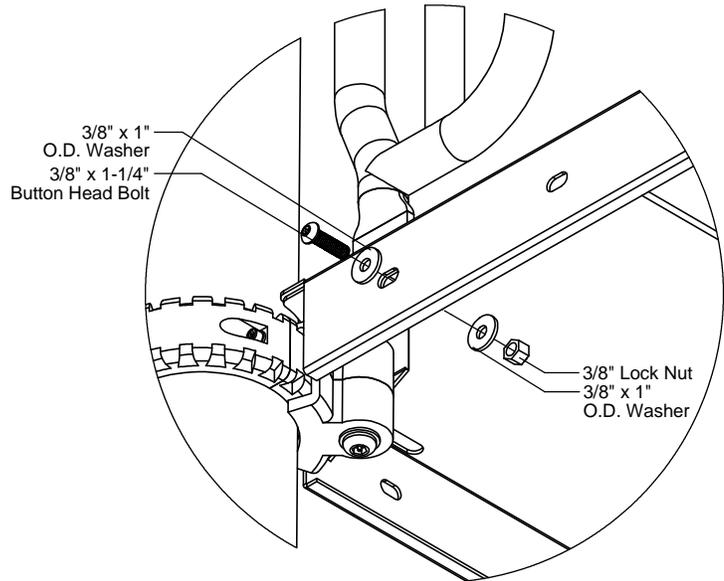


Figure 1.2

Specifications

SLIDE SIT DOWN HOOD:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

SIT DOWN HOOD - TOP RAIL:

Shall be constructed of 1.315" O.D. 12 gauge steel tubing. Sit Down Hood - Top Rail shall have a multi-stage baked-on powder coat finish.

SIT DOWN HOOD GUARD SINGLE:

Shall be constructed of 1.315" O.D. 12 gauge and 1.029" O.D. 14 gauge steel tubing. Sit Down Hood Guard shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

Part #	DESCRIPTION	QTY.
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

Assembled Parts List

Part #	DESCRIPTION	QTY.
DF-4827	Slide Hood R5	1
FS-1303-R5	Sit Down Hood Guard	2
LF-0009	Sit Down Hood - Top Rail	1
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	7
9321052-THK	Washer Fender 1/4" x 1" OD x .125" thk	7

Maintenance

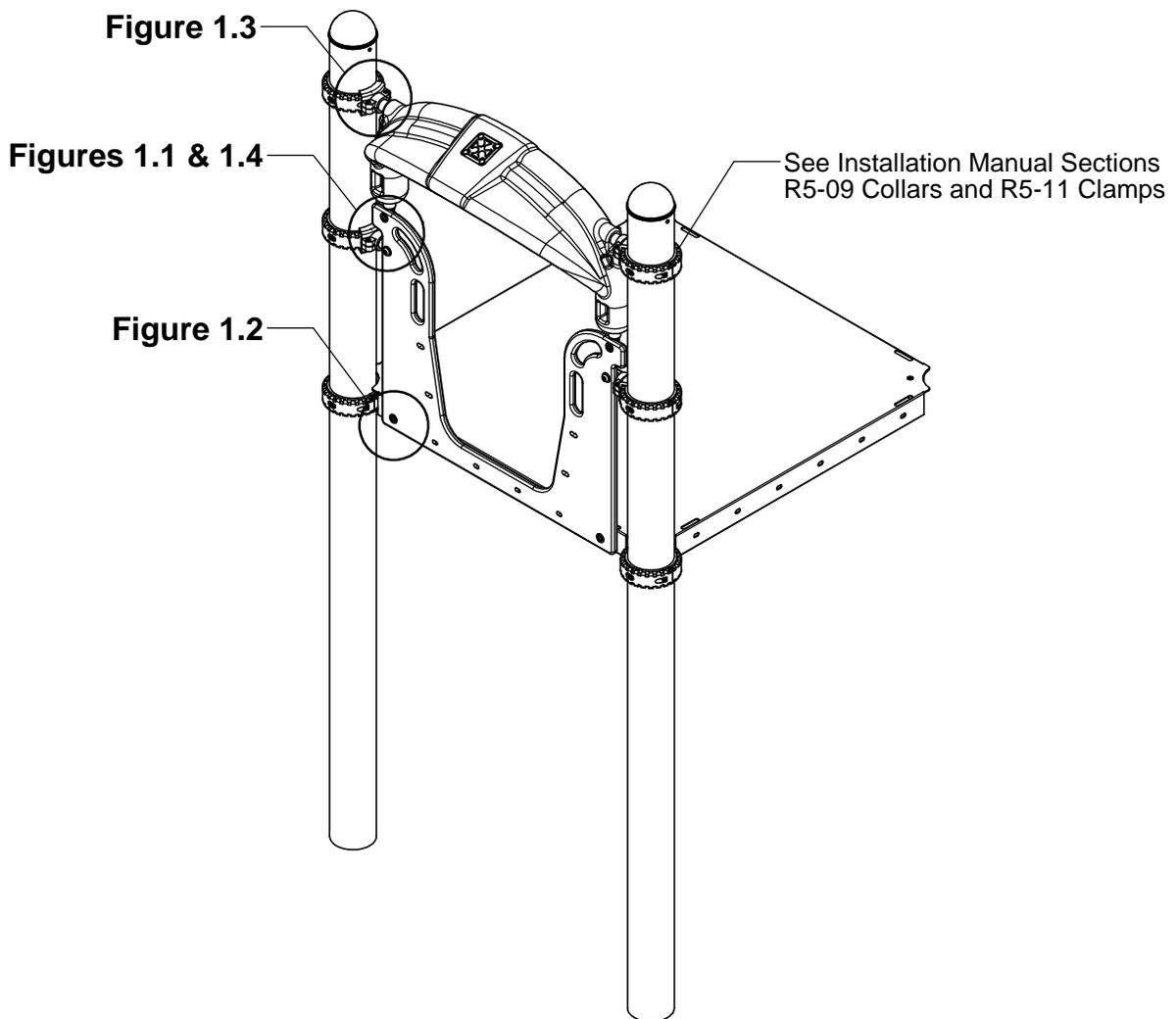
Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for R5-09 Collars and R5-11 Socket Clamps installation instructions.

FIGURE 1
Twister Entry Panel
w/ Sit Down Hood



Step 1

Locate and attach collars at heights shown in Elevation View. (See Note B)

*Height shown from top of deck to top of collar.

**Height shown from top of collar to top of collar.

Elevation View

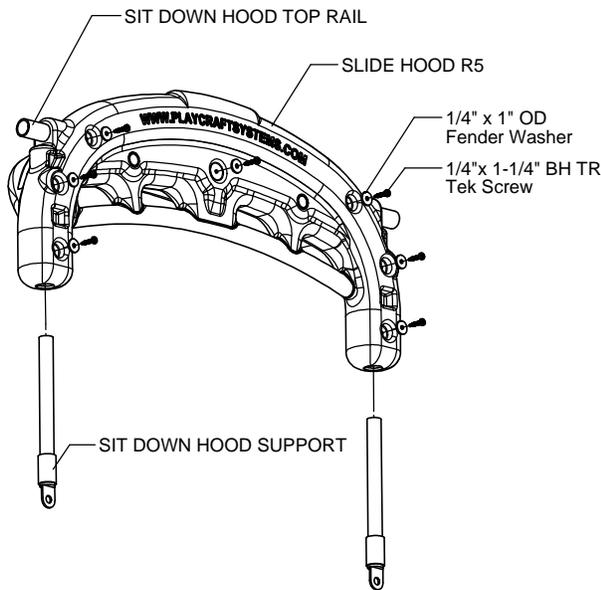
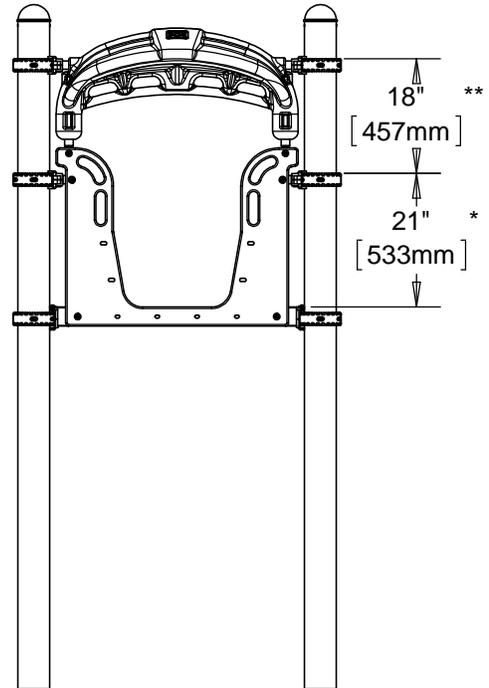


FIGURE 2

Step 3

Attach Entry Panel to collars as shown in Figure 1.1. (See Notes A & B)

Step 2 (Factory Assembled)

Attach Sit Down Hood Supports and Top Rail to Slide Hood as shown in Figure 2.

NOTE: Support Tabs must be parallel to Entry Panel.

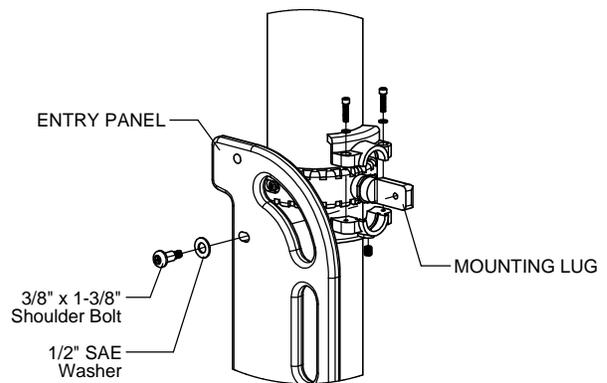


Figure 1.1

Step 4

Attach Entry Panel to deck as shown in Figure 1.2.
 (See Note A)

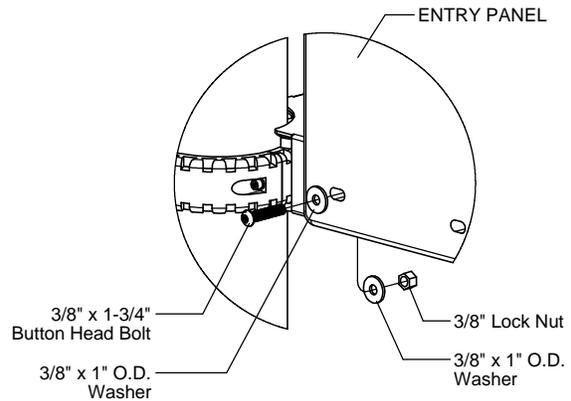


Figure 1.2

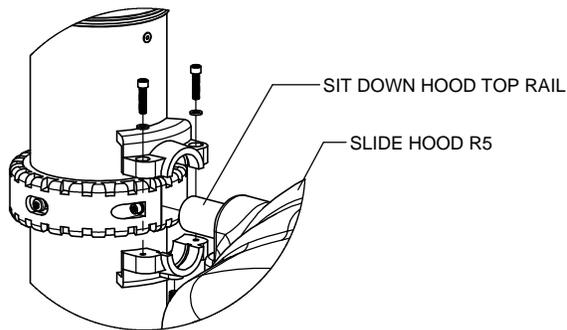


Figure 1.3

Step 5

Attach Slide Hood to collars as shown in Figure 1.3.
 (See Note B)

Step 6

Attach Slide Hood Supports to Entry Panel as shown in Figure 1.4. (See Note A)

Step 7

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

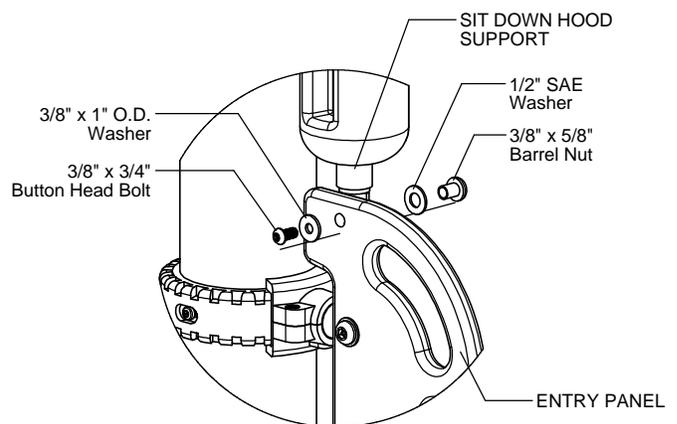


Figure 1.4

Parts List

Part #	DESCRIPTION	QTY.
EF-0218	Twister Entry Panel for Slide Hood R5	1
GF-7007	Mounting Lug R5	2
HS-1001-R5	Socket Clamp Set R5	4
9103032-TR	Bolt Button Head 3/8" x 3/4"	2
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	2
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	6
9345002	Washer Flat SAE 1/2"	4
9413002	Nut Lock 3/8"	2
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2

Assembled Parts List

Part #	DESCRIPTION	QTY.
DF-4827	Slide Hood R5	1
FS-1303-R5TW	Sit Down Hood Support	2
LF-0009	Sit Down Hood - Top Rail	1
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	7
9321052-THK	Washer Fender 1/4" x 1" OD x .125" thk	7

Specifications

SIT DOWN HOOD SUPPORT:

Shall be fabricated using 1.315 O.D. 12 gauge steel tubing with welded 1.029 O.D. 14 gauge steel tubing and a 10 gauge steel tab. The Sit Down Hood Support shall have a multi-staged baked-on powder coat finish.

SLIDE HOOD R5:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

TWISTER ENTRY PANEL FOR SLIDE HOOD:

Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV stability and color retention.

MOUNTING LUGS:

Shall be precision die-cast from a high strength aluminum alloy. The Mounting Lugs have a multi-stage baked-on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

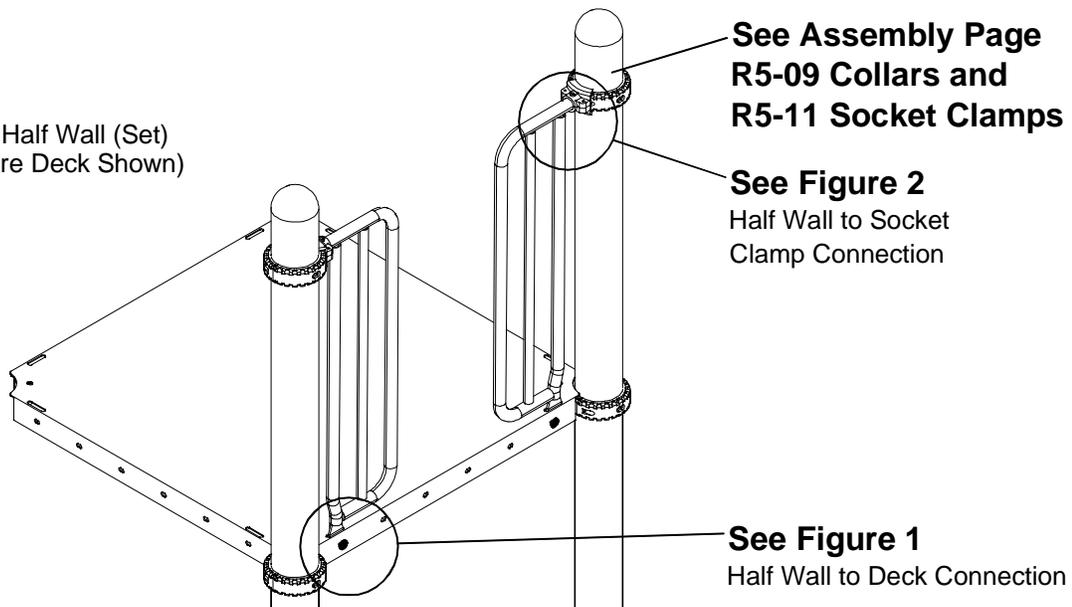
(A) Use liquid thread lock (such as Loctite[®]) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars and R5-11 Socket Clamps.

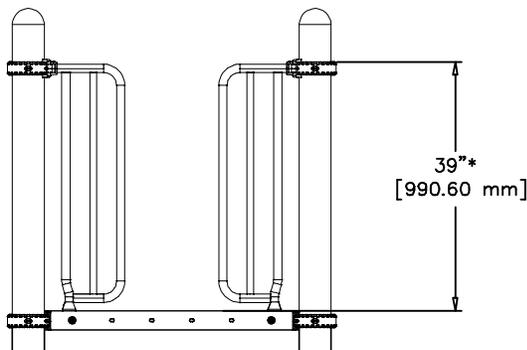
(C) Collar Locations: The Collar is to be placed 39" from top of the collar to top of the deck.

Assembly Views

Standard Half Wall (Set and Square Deck Shown)

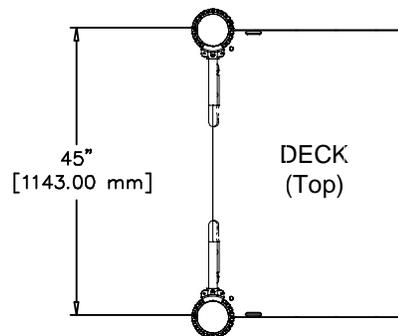


*Dimension given is from Top of Deck to Top of Collar.



Elevation

Front View



Footings Layout

Top View



Manufactured by Krauss Craft, Inc.
www.playcraftsystems.com

For Customer Service Call
800.333.8519 (U.S.A.) or
541.955.9199 (International)

Rev G

Figure 1

Half Wall to Deck Connection

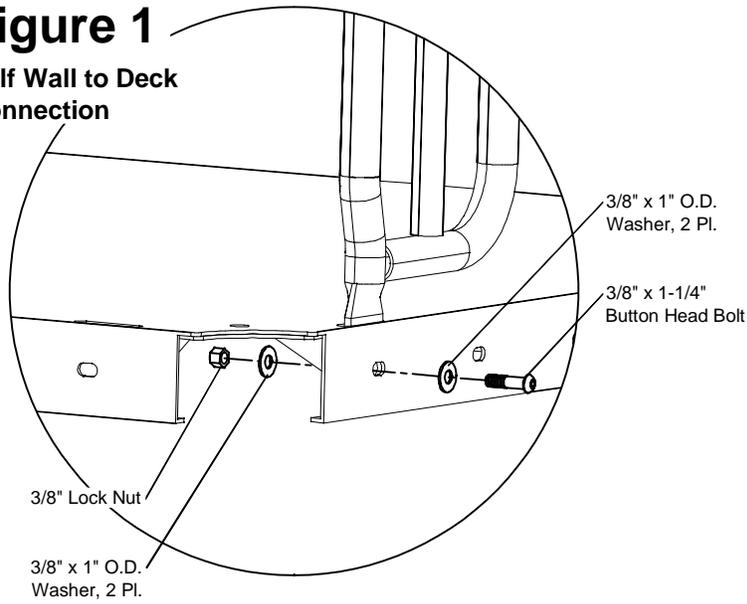
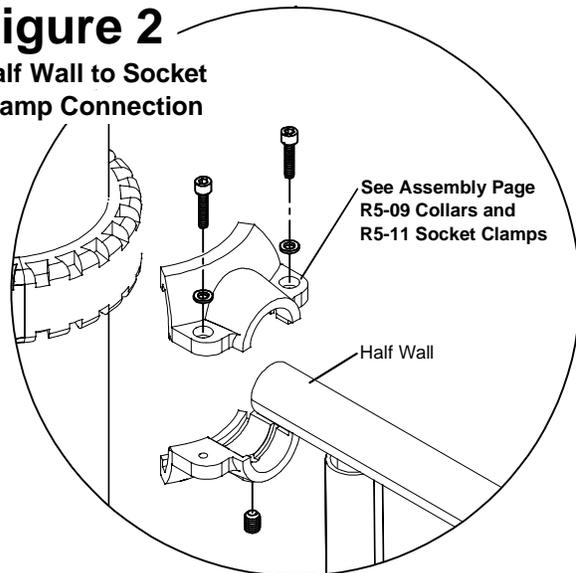


Figure 2

Half Wall to Socket Clamp Connection



Parts List

(1) Half Wall (Handle)

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
-VARIES-	Half Wall	1
See Pg. R5-11	Socket Clamp Assembly	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	1
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9413002	Nut Lock 3/8"	1

Half Wall Options

<u>PART #</u>	<u>DESCRIPTION</u>
FS-1309-R	Half Wall R5
FS-1309-R-TRNFR	Half Wall Transfer R5
FS-1309-RADA	Half Wall ADA Steps R5

Installation

Step 1.

Locate and mark the position of the Collars on the Support Posts. Refer to Elevation View for Collar locations. See Note C. See also Assembly Page R5 - 09 Collars for hardware type and orientation.

Step 2.

Loosely attach the Half Wall to the Deck. Verify left or right hand location on Top View of structure prior to installation. Refer to Figure 1 for hardware type and orientation.

Step 3.

Loosely attach the Half Wall to the Post Collars using the Socket Clamps. Refer to Figure 2 for hardware type and orientation. See also Assembly Page R5-11 Socket Clamps for additional hardware details.

Step 4.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Specifications

HALF WALL R5:

Shall be constructed of 1.315" O.D., 12 gauge steel tubing outer rails with 1.029" O.D., 14 gauge steel tubing welded vertically. The Half Wall may also have welded mounting tabs and/or plates. The Half Wall R5 has a multi-stage baked on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



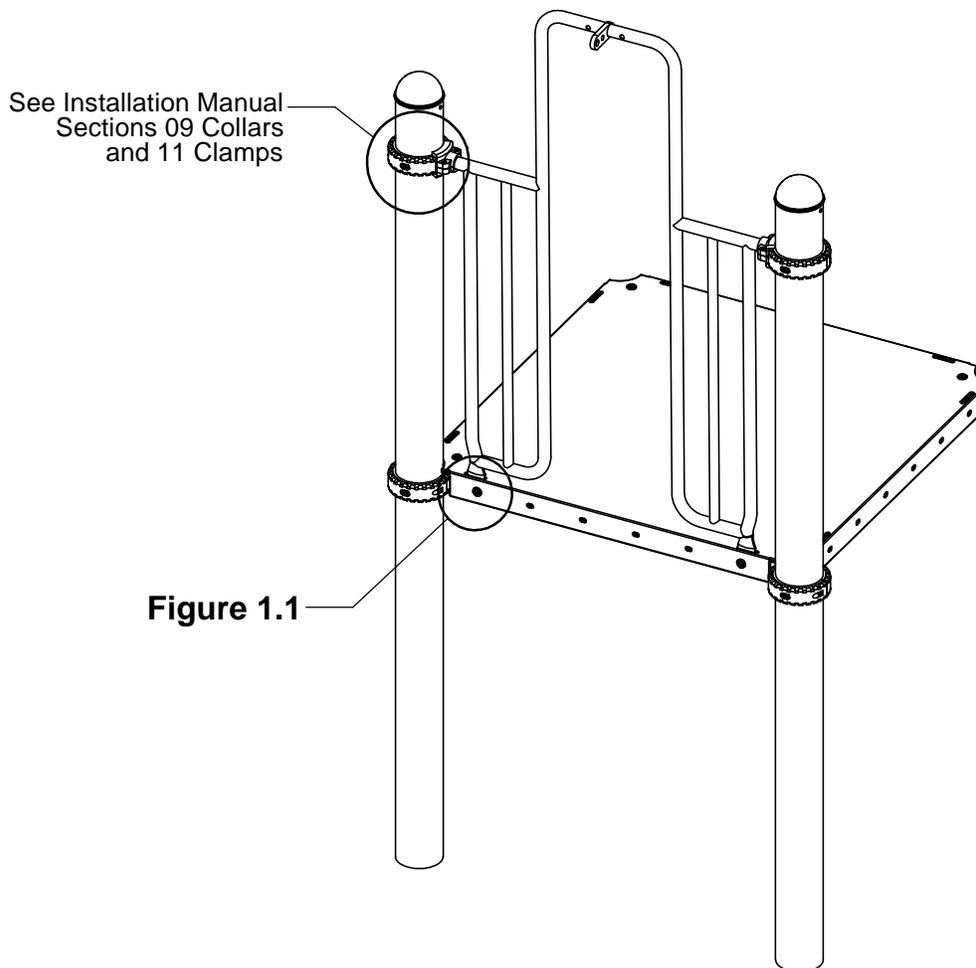
IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps assembly instructions.

(C) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

**FIGURE 1
Transition Wall**



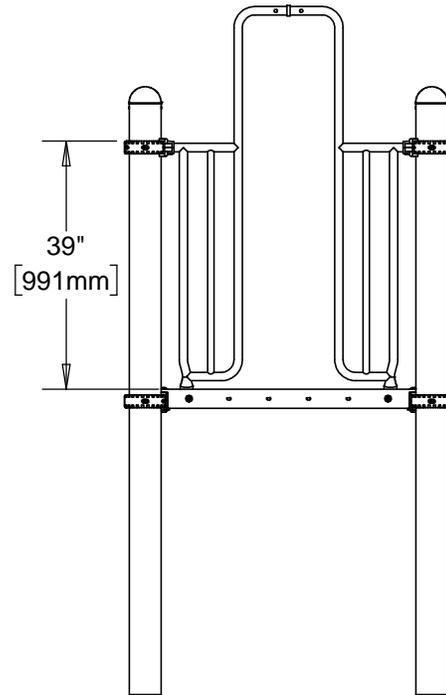
NOTE: R5 Single Tab Transition Wall shown. Other configurations will vary slightly but do not affect assembly.

Step 1

Locate and attach collars to posts at height shown in Front Elevation. Height is from top of Deck to top of Collar. (See Note B)

Step 2

Place Transition Wall Tabs into Deck slots and loosely attach hardware as shown in Figure 1.1. (See Note A)



FRONT ELEVATION

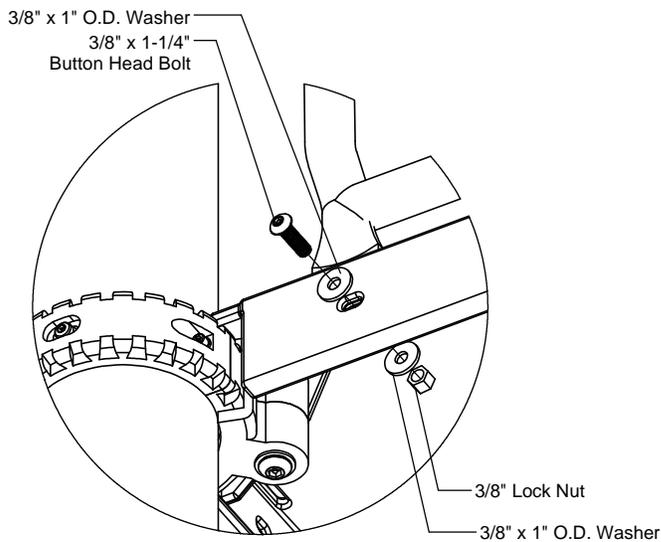


Figure 1.1

Step 3

Attach Transition Wall to posts using Socket Clamps as shown in Figure 1.2. (See Note B)

Step 4

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

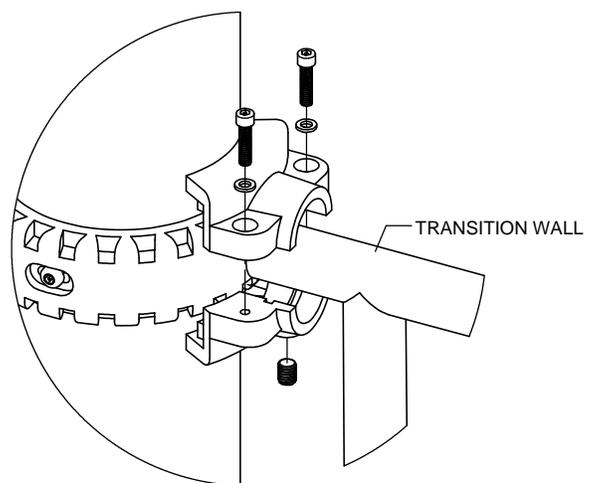


Figure 1.2

Parts List

R3.5 TRANSITION WALL		
Part #	DESCRIPTION	QTY.
Varies	Transition Wall R3.5	1
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

R5 TRANSITION WALL		
Part #	DESCRIPTION	QTY.
Varies	Transition Wall R5	1
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

Specifications

TRANSITION WALL:

Shall be fabricated from 1.315" O.D. 12 guage steel tubing with welded 1.029" O.D. 14 guage vertical rails and handles. 1/2" thick steel tab(s) shall be welded to the wall. The Transition Wall has a multi-stage baked on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked on powder coat finish.

HARDWARE:

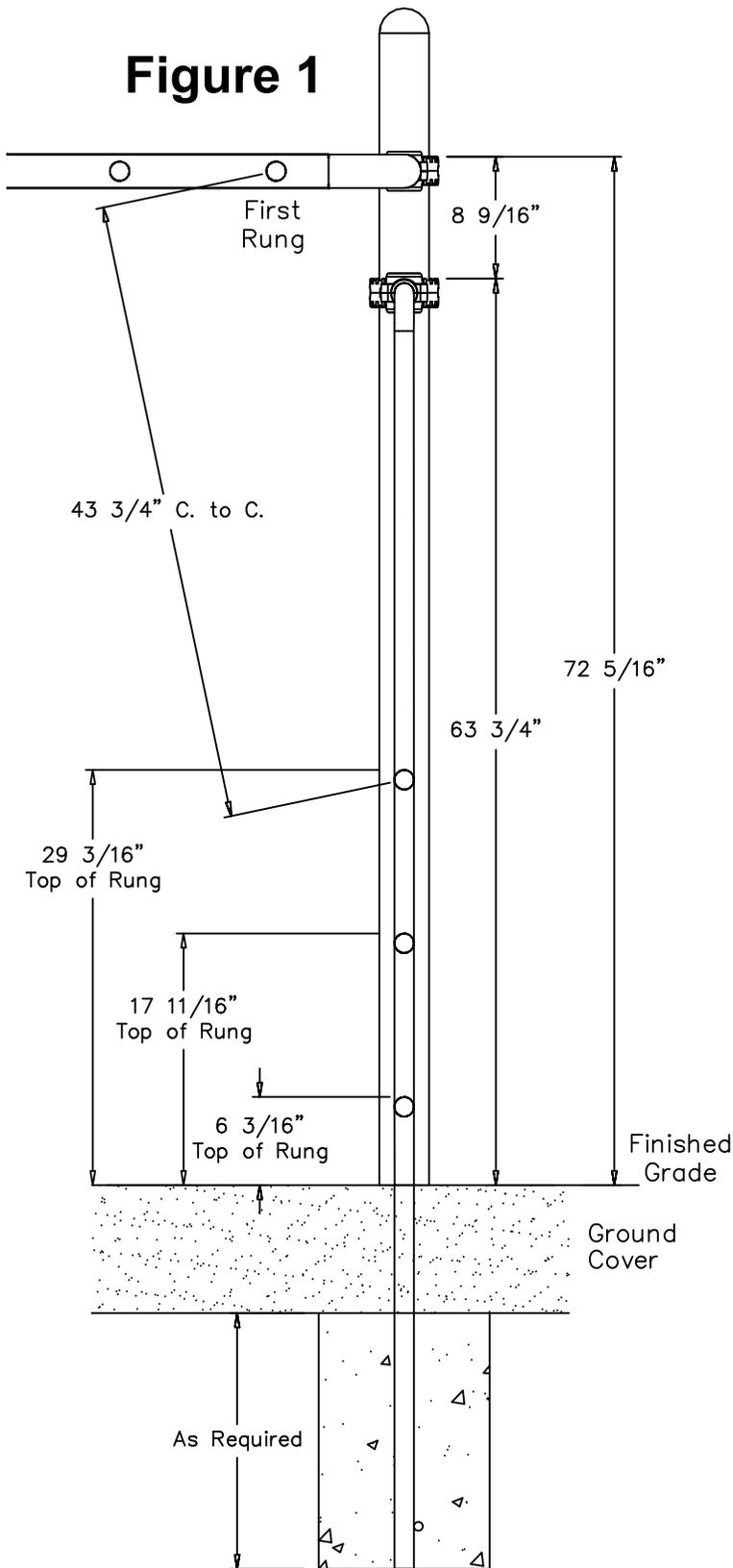
Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

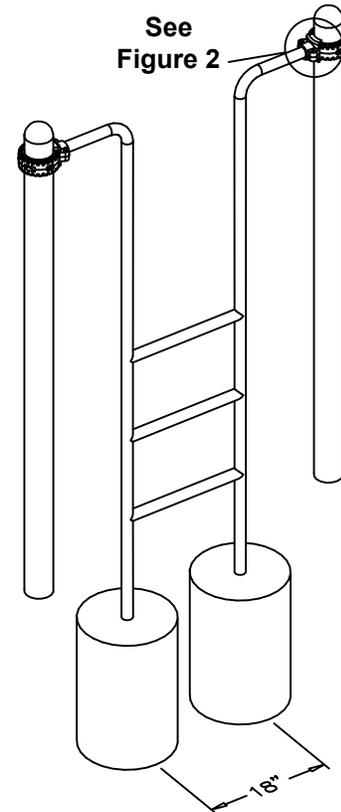
Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



Figure 1

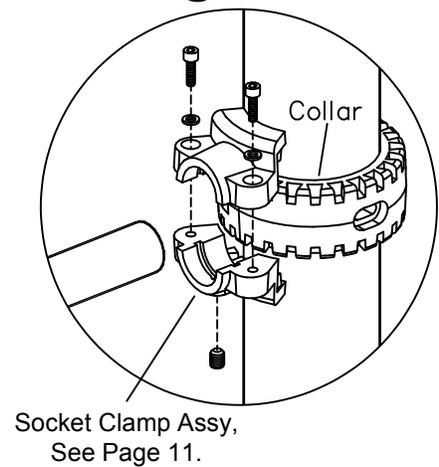


Assembly View



**Concrete Footings
See Figure 1**

Figure 2



Parts List

QTY.	DESCRIPTION	PART #
1	End Access Ladder	FS-1403-RLA512
2	R5 Socket Clamp Assy.	See Page 11

Specifications

END ACCESS LADDER:

Shall be constructed of 1.315" OD, 12 gage steel tube and finished with a baked on powder coating.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately.

Instructions

Notes:

(A) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Step 1.

Dig (2) 12" dia. footing holes approx. 18" deep. See Assembly View for locations.

Step 2.

Locate and mark the locations of the collars and attach to the support posts as shown on Collar Assembly Page 09.

Step 3.

Place the ladder into the footing holes and attach to the support collars as shown in Figure 2. See Socket Clamp Assembly Page 11.

Step 4.

Fully tighten all fasteners.

Step 5.

Pour concrete footings. Allow 72 hours for concrete to cure before continuing.



Assembly View

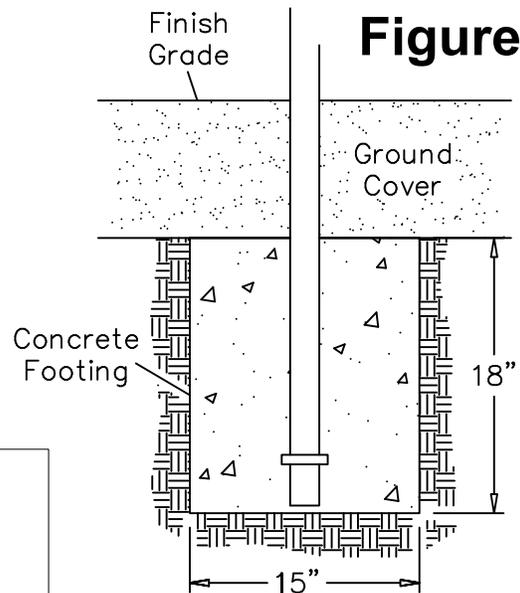
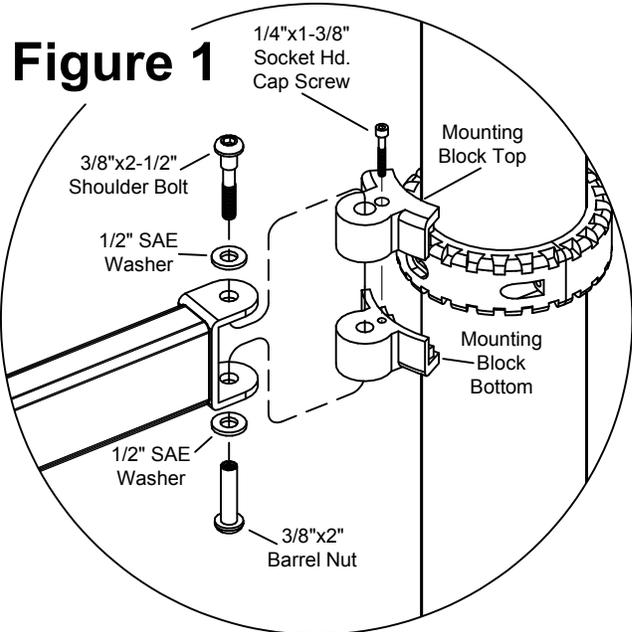
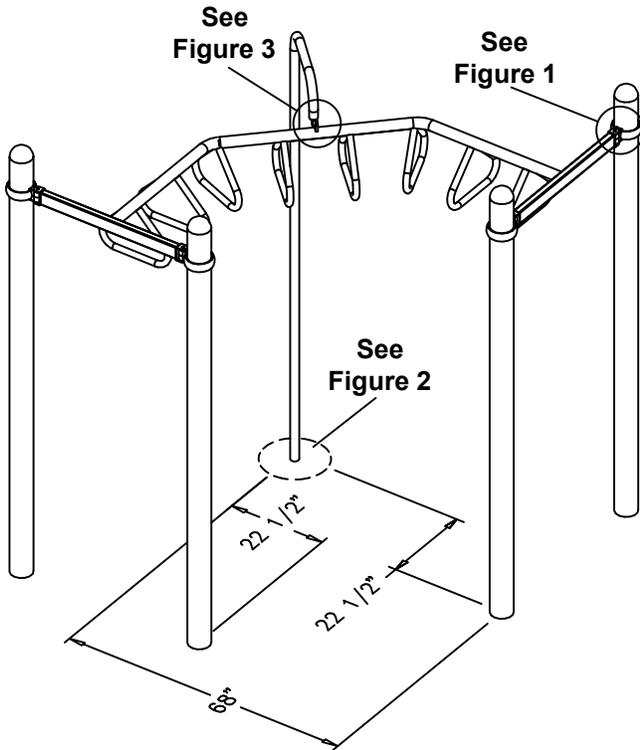
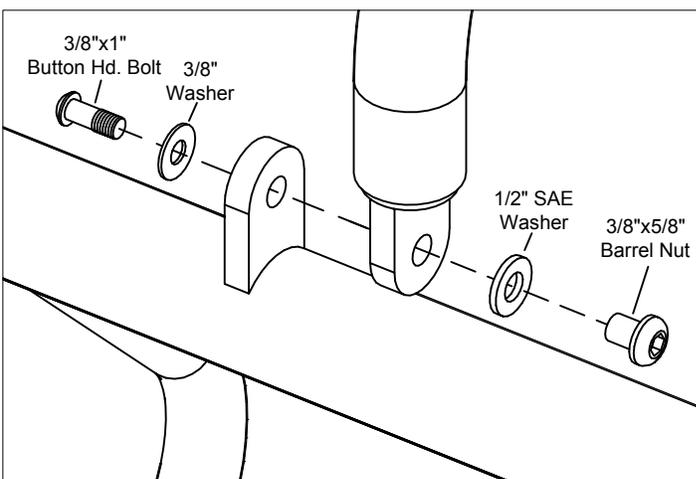


Figure 3



Parts List

QTY.	DESCRIPTION	PART #
1	90° Loop Traverse	FS-1411-R90
1	90° Loop Traverse Support	FS-1411-90A
4	Mounting Block Top	7006-T
4	Mounting Block Bottom	7006-B
1	3/8"x1" Button Hd. Bolt	9103052-TR
4	3/8"x2-1/2" Shoulder Bolts	9143112-TR
4	1/4"x1-3/8" Socket Cap Screws	9281062-5
1	3/8" Washer	9333002
9	1/2" SAE Washers	9345002
1	3/8"x5/8" Barrel Nut	9443022-TR
4	3/8"x2" Barrel Nuts	9443092-TR

Instructions

Notes:

(A) The height of the Loop (at grasping point) from the top of ground cover varies by age group.
 Ages 2-5: Max. 60" above ground cover.
 Ages 5-12: Max. 84" above ground cover.

(B) Use liquid thread lock (such as Loctite) with all threaded hardware. ***Important:*** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly

Step 1.

Locate and mark collar positions as shown in the Assembly View, and attach as shown on Collar Assembly Page 09.

Step 2.

Place Mounting Blocks in position on the collars and secure with Socket Head Cap Screws. Attach Loop Traverse to Mounting Blocks as shown in Figure 1.

Step 3.

Check to ensure that the Loop Traverse has been installed to the correct height (see Note A).

Step 4.

Dig a 15" dia. footing hole approx. 18" deep. See Assembly View for location and Figure 2 for footing detail.

Step 5.

Place the Traverse Support in the footing hole and attach to the 90° Loop Traverse as shown in Figure 3.

Step 6.

Fully tighten all fasteners.

Step 7.

Pour concrete footing. Allow 72 hours for concrete to cure before continuing.

Specifications

LOOP TRAVERSE:

Center support beam shall be 2.375" OD, 10 gage steel tube welded to 1.5" x 3" cross members.
 Rungs shall be made from 1.315" OD, 12 gage steel tubing. Finished with a baked on powder coating.

MOUNTING BLOCKS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
 A periodic inspection of all parts is necessary.
 If a part is broken or worn, replace immediately.



IMPORTANT NOTES: Read First

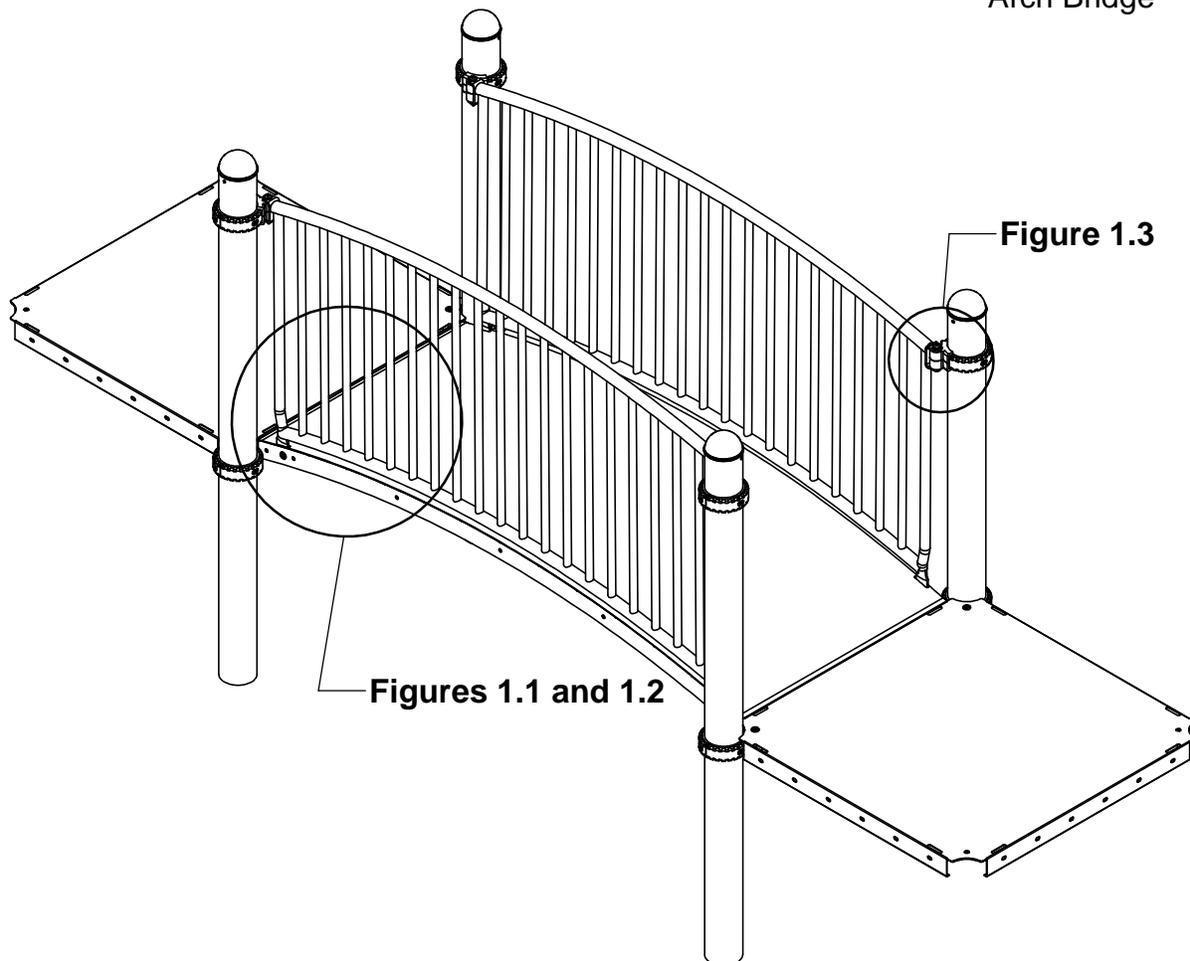
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) If more than two threads of a bolt are exposed beyond the end of the nut then the bolt must be cut down to two or less threads and de-burred until the end is smooth to the touch.

(C) Refer to Installation Manual for 09 Collars, 11 Socket Clamps, and 1309 Half Wall assembly instructions.

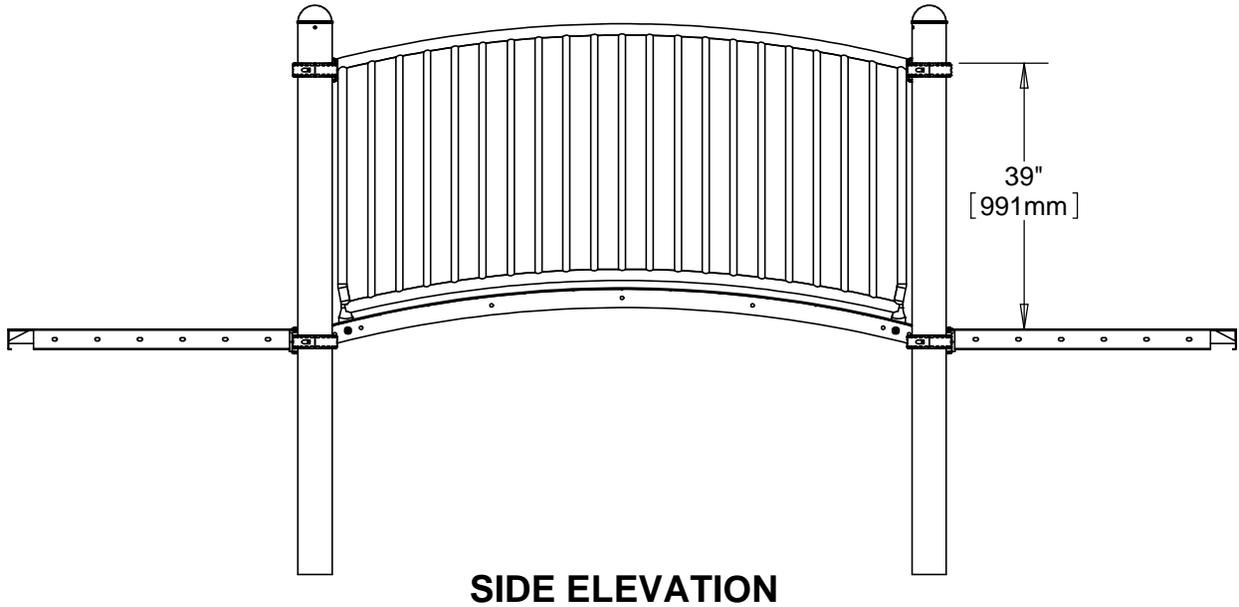
(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Arch Bridge



Step 1

Locate and attach collars at the height given in the Side Elevation. Height is shown from the top of deck to the top of collar. (See Note C)



Step 2

Attach the Arch Bridge between the decks as shown in Figure 1.1. (See Notes A & B)

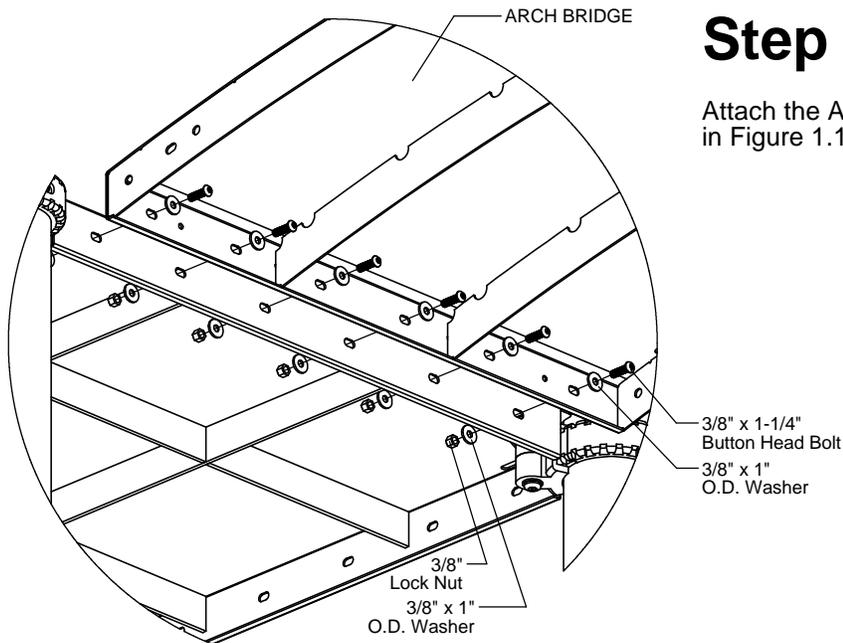


Figure 1.1

Step 3

Attach the Arch Bridge Hand Rail to the Bridge as shown in Figure 1.2. (See Notes A & B)

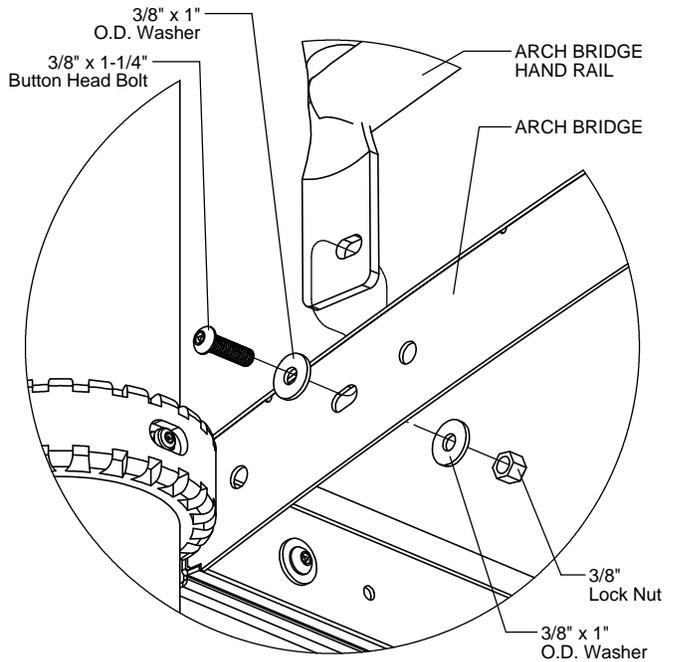


Figure 1.2

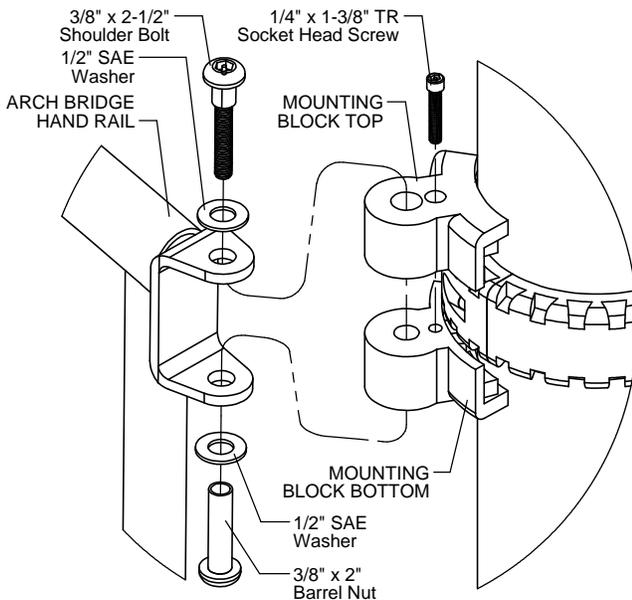


Figure 1.3

Step 4

Attach the Arch Bridge Hand Rail to the collars as shown in Figure 1.3. (See Note A)

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Place appropriate compliant protective surfacing under and around Arch Bridge Assembly. (See Note D)

Specifications

ARCH BRIDGE 90 R5:

Shall be fabricated using 12 gage sheet steel. The Arch Bridge 90 shall be Play-Tuff™ coated after fabrication.

ARCH BRIDGE HAND RAIL 90 R5:

Shall be fabricated from 1.315" O.D. 12 gauge steel tubing with 1.029" O.D. 14 gauge welded vertical rails. A 0.25" thick clevis shall be welded to the vertical rails. The Arch Bridge Hand Rail has a multi-stage baked-on powder coat finish.

MOUNTING BLOCKS R5:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Mounting Blocks have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

Parts List		
Part #	DESCRIPTION	QTY.
CF-7093	Arch Bridge 90	1
FS-1502-R90	Arch Bridge 90 H Rail	2
GF-7006-B	Mounting Block R5 Bottom	4
GF-7006-T	Mounting Block R5 Top	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	32
9345002	Washer Flat SAE 1/2"	8
9413002	Nut Lock 3/8"	16
9443092-TR	Nut Barrel 3/8" x 2" BH	4

Canada Parts List		
Part #	DESCRIPTION	QTY.
CF-0052	Arch Bridge 90 CAN	1
FS-1502-R90	Arch Bridge 90 H Rail	2
GF-7006-B	Mounting Block R5 Bottom	4
GF-7006-T	Mounting Block R5 Top	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	32
9345002	Washer Flat SAE 1/2"	8
9413002	Nut Lock 3/8"	16
9443092-TR	Nut Barrel 3/8" x 2" BH	4

Maintenance

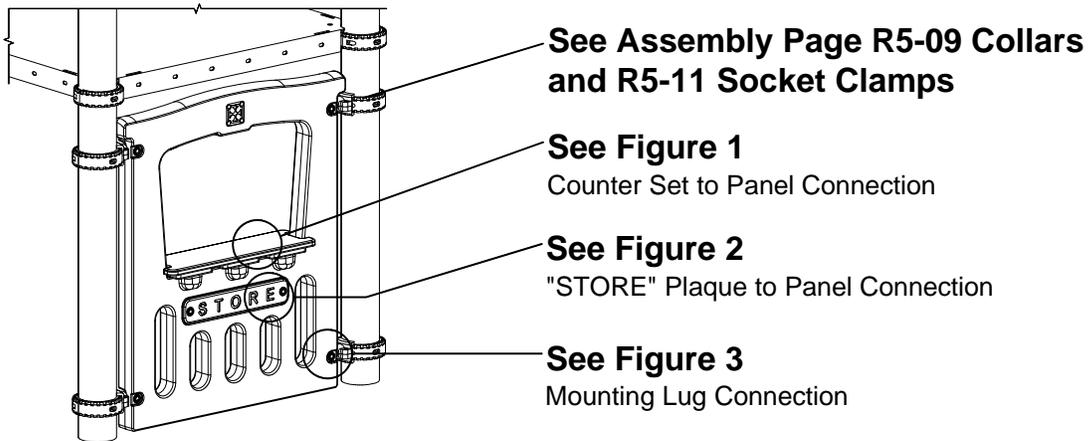
Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



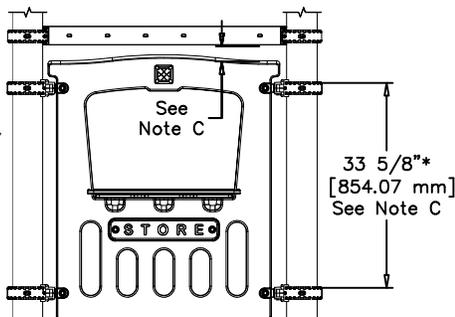
IMPORTANT NOTES: Read First

- (A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.
- (B) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars and R5-11 Socket Clamps.
- (C) Collar Locations : Collars measure 33-5/8" from top of lower collar to top of upper collar.
Under Deck Installation: Make sure distance between the bottom of the deck and the top of the panel(s) is less than 3-1/2" or greater than 9" to avoid head and neck entrapment.
- (D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.

Assembly View

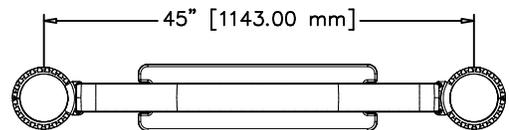


*Dimension given is from Top of Lower Collar to Top of Upper Collar



Elevation

Front View



Post Spacing

Top View



Manufactured by Krauss Craft, Inc.
www.playcraftsystems.com

For Customer Service Call
800.333.8519 (U.S.A.) or
541.955.9199 (International)

Rev J

Figure 1

Counter Set to Panel Connection

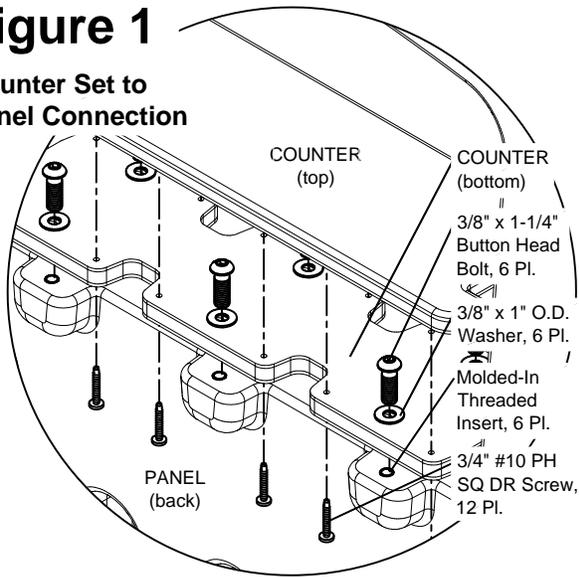


Figure 2

"STORE" Plaque to Panel Connection

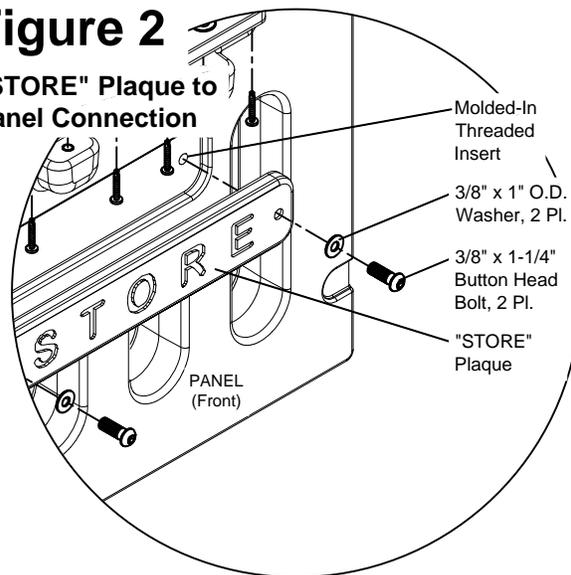
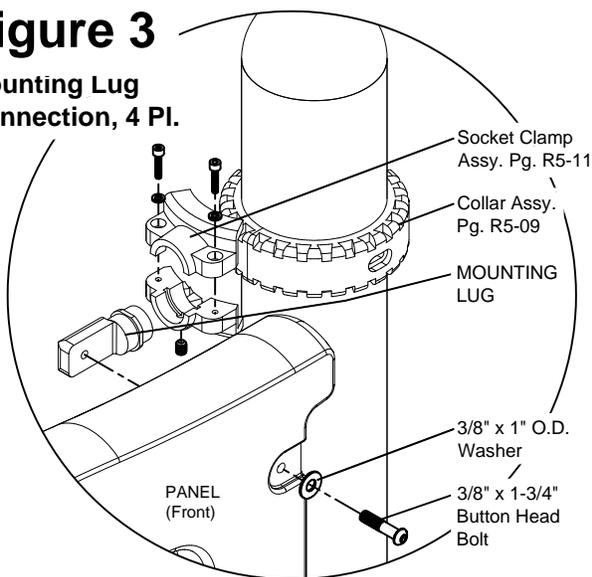


Figure 3

Mounting Lug Connection, 4 Pl.



Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
004785	Panel Store "Roto" Set (incl. Counter and Plaque)	1 Set
007007	Mounting Lug R5	4
123010	Panel Store Roto R5	1
See Pg. R5-11	Socket Clamp Assy.	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	8
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	4
9333002	Washer Flat 3/8" x 1" x .100 thk	12
9251032	Screw SQ #10 x 3/4" DR PH	12

Installation

Step 1.

Locate and mark the position of the Collars on the Support Posts. See Note C. Refer to Assembly Page R5-09 Collars for additional details and hardware.

Step 2.

Attach Counter Set to Panel. Refer to Figure 1 for hardware type and orientation. Attach "STORE" Plaque to front of Panel. Refer to Figure 2 for hardware type and orientation.

Step 3.

Loosely attach the top of the Panel to the Collars using Socket Clamps and Mounting Lugs. Refer to Figure 3 for hardware type and orientation. See also Assembly Page R5-11 Socket Clamps.

Step 4.

Repeat Step 3 to attach bottom of Panel to Collars.

Step 5.

Check distance between top of Panel and bottom of Deck to make sure it doesn't create an Entrapment. See Note C for details.

Step 6.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 7.

Place appropriate compliant protective surfacing under and around Store Panel Roto. See Note D.

Specifications

STORE PANEL ROTO R5:

Shall be constructed of UV-stabilized, rotationally molded, Linear Low Density Polyethylene with an average single wall thickness of 1/4". The Panel (ROTO) shall be 38" x 43-1/2" x 3" deep.

COUNTER SET & "STORE" PLAQUE:

Shall be fabricated using 3/4" High Density Polyethylene hot-extruded plastic.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

MOUNTING LUGS:

Shall be precision die-cast from a high-strength aluminum alloy. The Mounting Lugs have a multi-stage baked-on powder coating.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

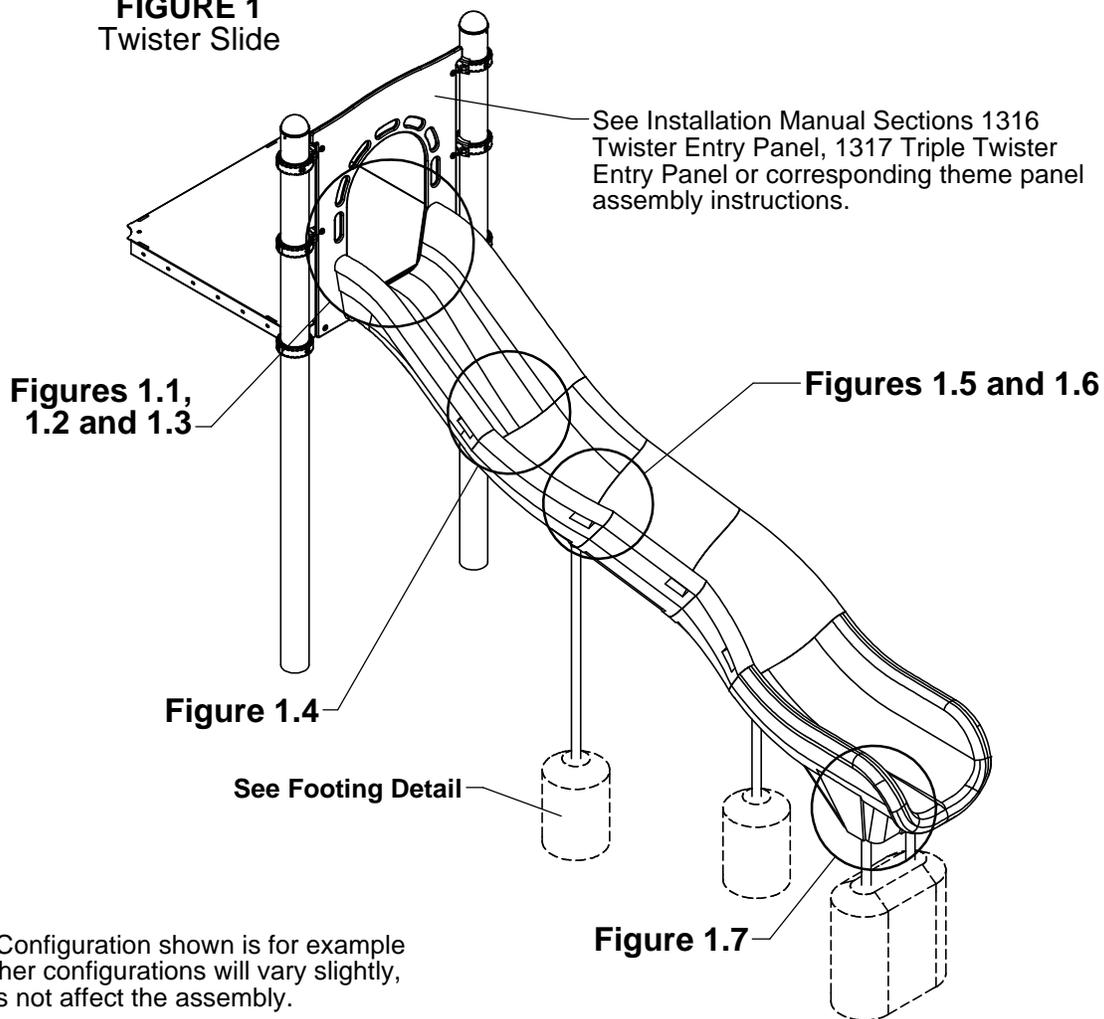
Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

- (A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.
- (B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).
- (C) Refer to Installation Manual for 1316 Twister Entry Panel, 1317 Triple Twister Entry Panel assembly instructions or corresponding theme panel assembly instructions.
- (D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.
- (E) Exit height must be between 7" [180mm] and 15" [380mm] from finish grade for slides with an elevation greater than 48". For slide elevations no greater than 48", the exit height shall be no greater than 11". Exit region must also have a downward slope of 0 to 4°.

FIGURE 1
Twister Slide



NOTE: Configuration shown is for example only. Other configurations will vary slightly, but does not affect the assembly.

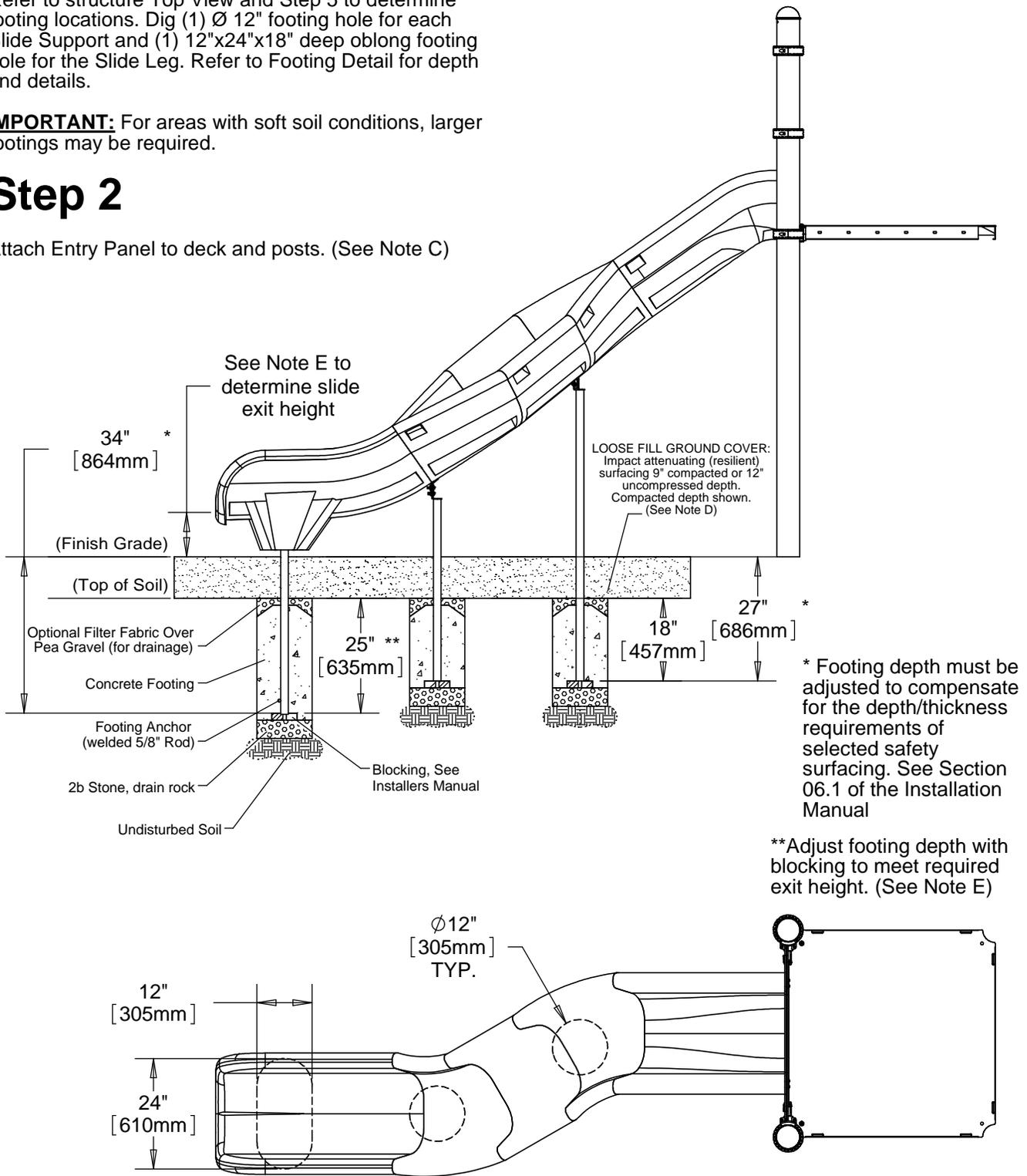
Step 1

Refer to structure Top View and Step 5 to determine footing locations. Dig (1) \varnothing 12" footing hole for each Slide Support and (1) 12"x24"x18" deep oblong footing hole for the Slide Leg. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

Step 2

Attach Entry Panel to deck and posts. (See Note C)

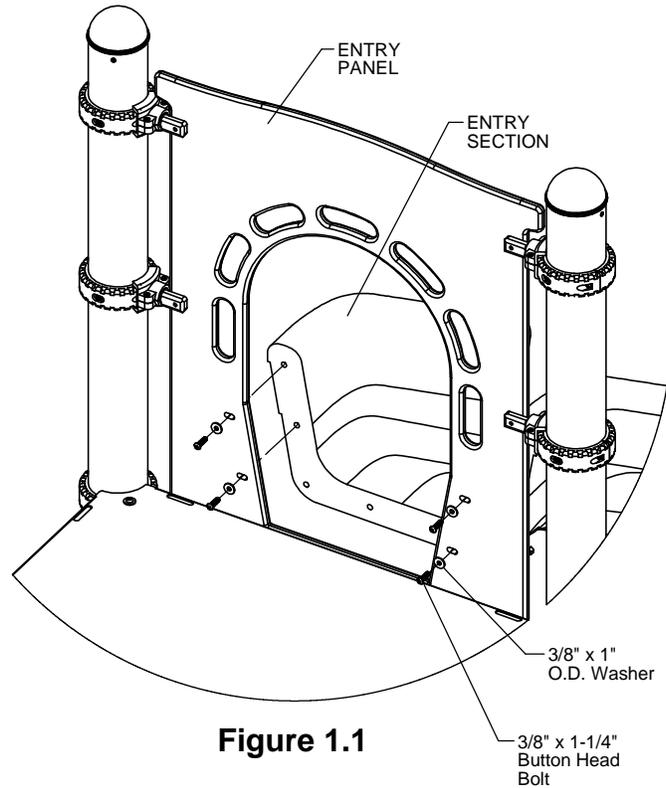


* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual

**Adjust footing depth with blocking to meet required exit height. (See Note E)

Step 3

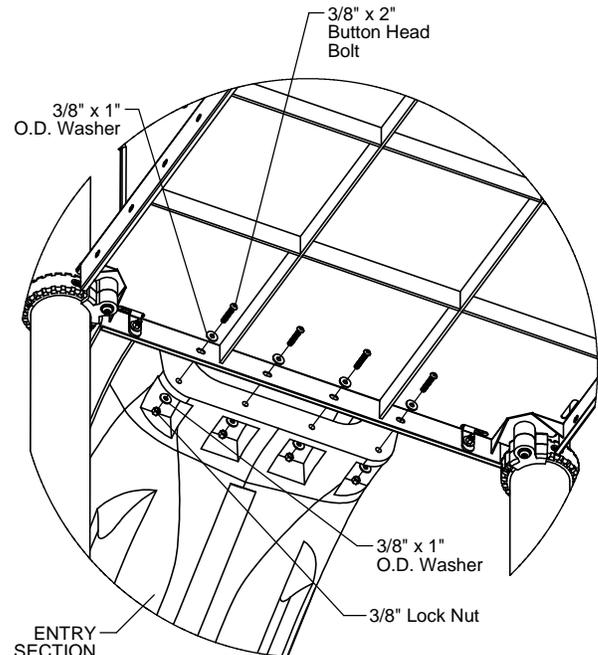
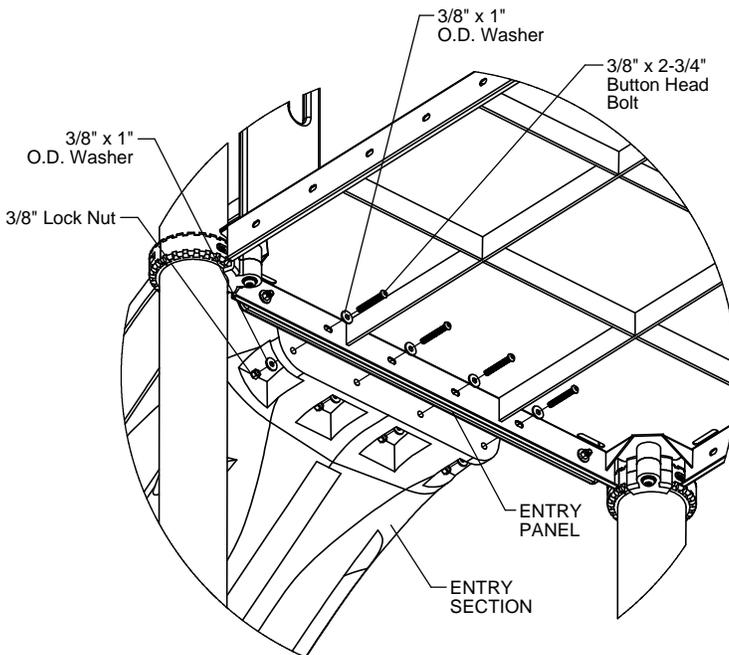
Attach Entry Section(s) to Entry Panel as shown in Figure 1.1. (See Note A)



Step 4

For Entry Sections including all Triple Twister Entry Panels use the hardware shown in Figure 1.2. (See Note A)

For Single Canada Entry Panels, attach Entry Section to deck as shown in Figure 1.3. (See Note A)



Step 5

Attach sections together as shown in Figure 1.4. Refer to structure Top View for configuration and support locations. For section joints where Support Bracket is attached, see Figure 1.5. (See Note A)

Determine footing center location by dropping plumb bob from Support Bracket(s).

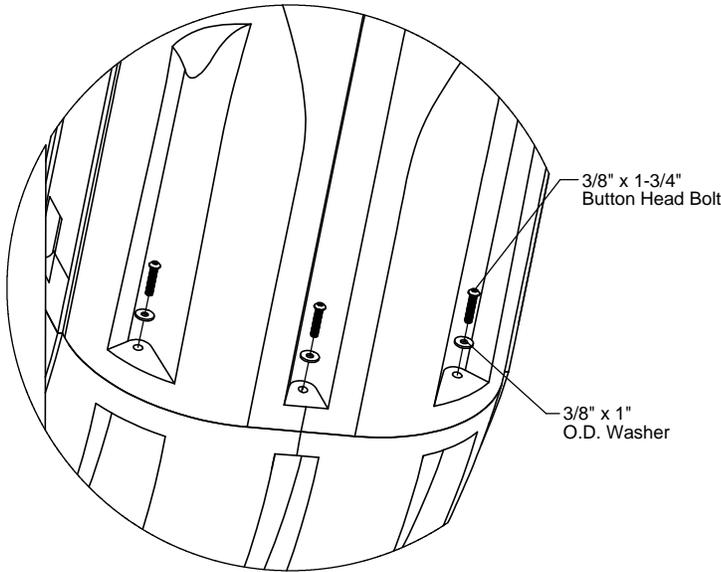


Figure 1.4

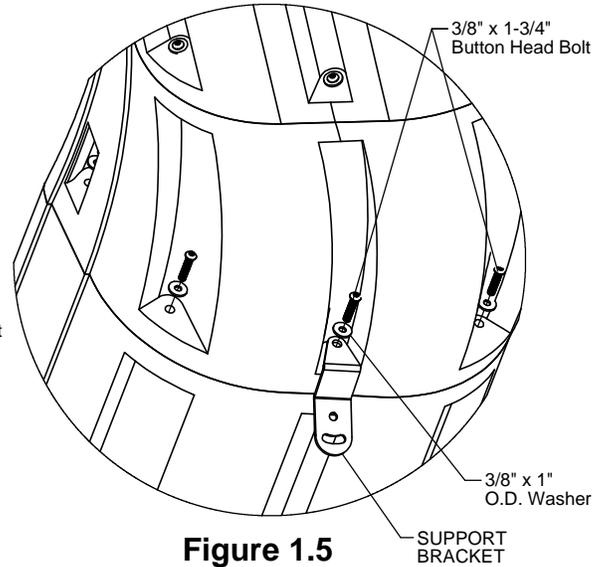


Figure 1.5

Step 6

Place Slide Support in footing hole and attach to Support Bracket as shown in Figure 1.6. (See Note A)

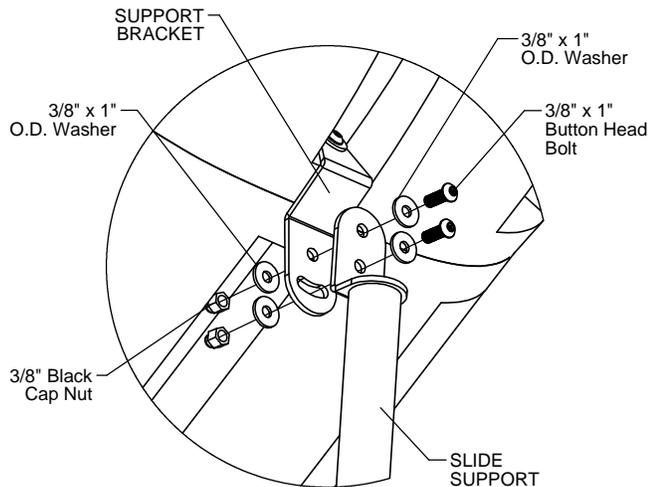


Figure 1.6

Step 7

Place Slide Leg in footing hole and attach to Exit Section as shown in Figure 1.7. (See Note A)

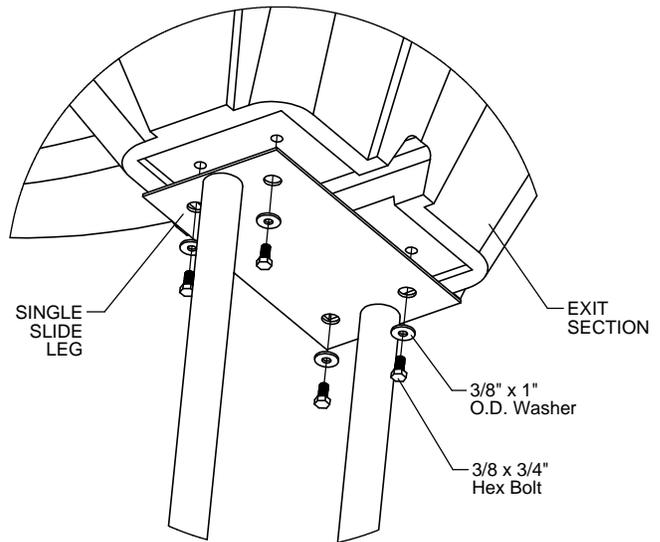


Figure 1.7

Step 8

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 9

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Notes B and E)

Step 10

Place appropriate compliant protective surfacing under and around Twister Slide. (See Note D)

Specifications

TWISTER SLIDE SECTIONS:

Shall be constructed of UV-stabilized rotationally molded linear low density polyethylene with an average wall thickness of .250".

TWISTER SLIDE SUPPORT:

Shall be fabricated of 1.660" O.D. 11 gauge steel tubing welded to a 3/16" formed and punched steel plate. Twister Slide Support has a multi-stage baked-on powder coat finish.

SINGLE SLIDE LEG:

Shall be fabricated of 1.660" O.D. 11 gauge steel tubing welded to a 10 gauge steel plate. The Single Slide Leg has a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

TWISTER SLIDE - TRIPLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	3
DE-4339-EXT	Twister Slide - Exit	3
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9103122-TR	Bolt Button Head 3/8" x 2-3/4"	12
9123032	Bolt Hex 3/8" x 3/4"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	48
9413002	Nut Lock 3/8"	12

Parts List

TWISTER SLIDE - SINGLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	1
DE-4339-EXT	Twister Slide - Exit	1
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103122-TR	Bolt Button Head 3/8" x 2-3/4"	4
9123032	Bolt Hex 3/8" x 3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	16
9413002	Nut Lock 3/8"	4

TWISTER SLIDE - CANADA SINGLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	1
DE-4339-EXT	Twister Slide - Exit	1
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103092-TR	Bolt Button Head 3/8" x 2"	4
9123032	Bolt Hex 3/8" x 3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	16
9413002	Nut Lock 3/8"	4

EACH MID-SUPPORT		
Part #	DESCRIPTION	QTY.
BE-4500	Sectional Slide Support Bracket #2	1
FS-1710-S	Sectional Slide Support	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413162-BLK	Nut Lock 3/8" w/ Black Cap	2

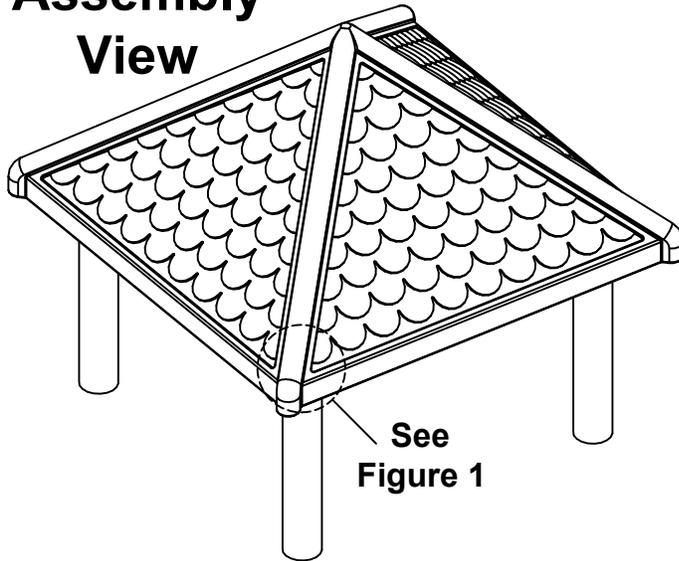
EACH SECTION JOINT		
Part #	DESCRIPTION	QTY.
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	5
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	5

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



Assembly View



Plan View

Roof Support
Casting Layout

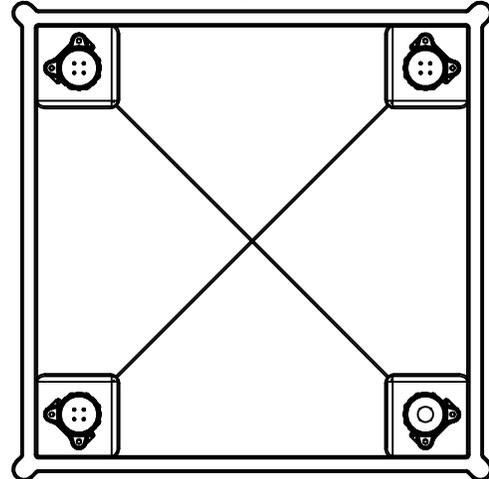
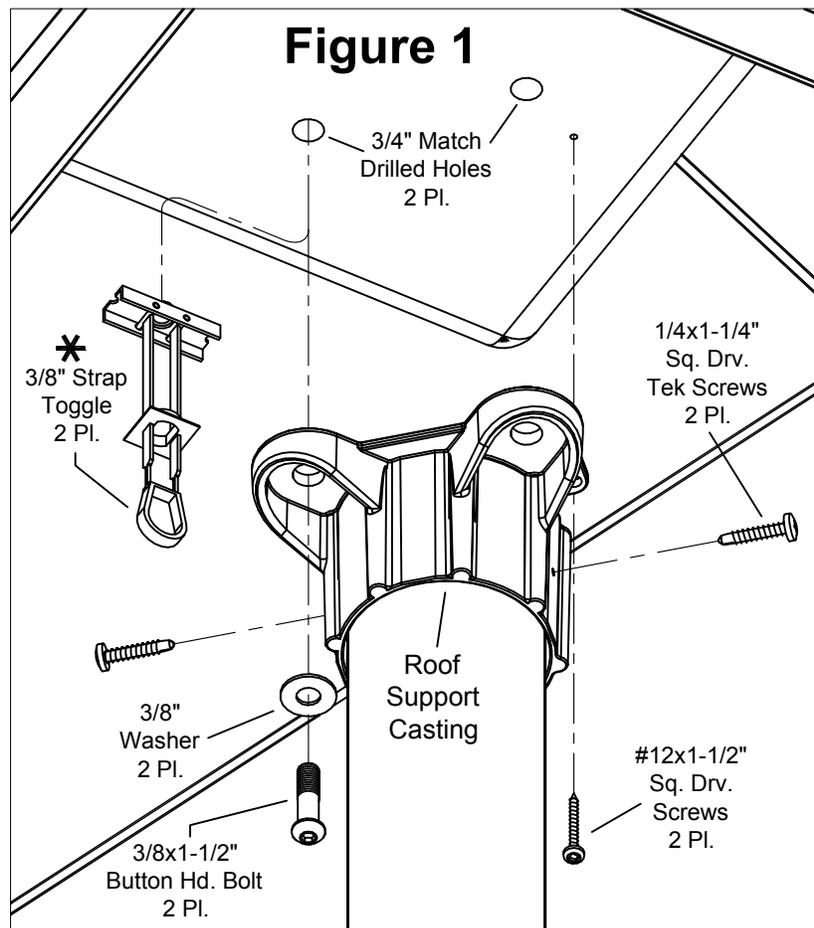


Figure 1



Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	Poly Shingled Roof	141020
4	Roof Support Castings 2-Ear	7163
8	3/8"x1-1/2" Button Hd. Bolts	9103072-TR
8	#12x1-1/2" Sq. Drv. Screws	9221272
8	1/4"x1-1/4" Sq. Drv. Tek Screws	9271060
8	3/8" Washers	9333002
8	3/8" Strap Toggle Fasteners	9643160

Specifications

ROOF:

Shall be roto-molded of UV-stabilized polyethylene with an average wall thickness of .250".

ROOF SUPPORT CASTING:

Shall be Die-Cast using a High-Strength Aluminum Alloy. To be finished with a baked on Powder Coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately.

Installation

Notes:

(A) Use Posts without caps.

(B) Snug tighten all fasteners during assembly. After assembly, check position and tighten the fasteners fully.

(C) Use liquid thread lock (such as Loctite) with all threaded hardware. ***Important:*** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

✱ (D) Caution must be given to Toggle Assembly as parts may become fragile during insertion and final securing.

Step 1.

Attach Roof Casting to the top of the Post using 1/4"x1-1/4" Sq. Drv. Tek Screws as shown in Figure 1.

Step 2.

Position & center the Shingled Roof on the Roof Support Castings.

Step 3.

Mark Roof Casting hole positions on Poly Roof.

Step 4.

Move Roof out of position and match drill (2) 3/4" Dia. holes at each Casting location. Cinch the (2) Strap Toggle Fasteners into the roof through the 3/4" holes as shown in Figure 1. Re-position Shingled Roof.

Step 5.

Complete the attachment of the Roof to the Roof Castings using the 3/8"x1-1/2" Button Head Bolts and 3/8" Washers as shown in Figure 1.

Step 6.

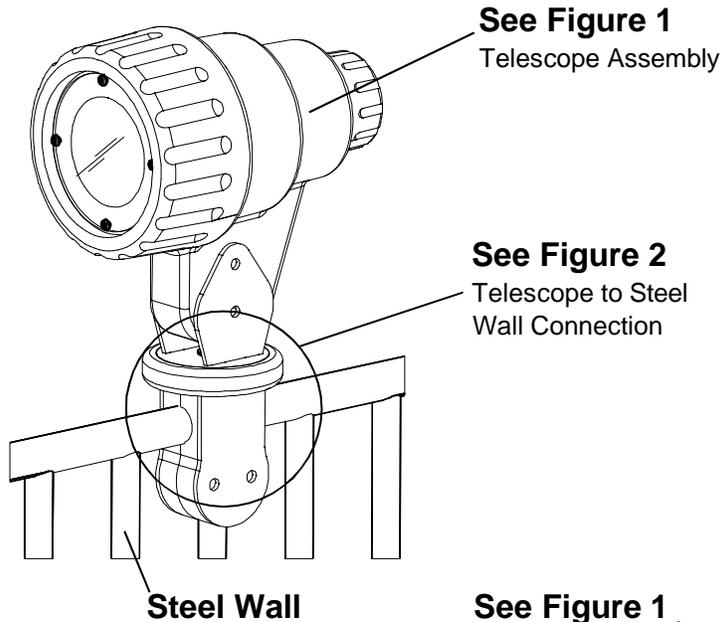
Fully tighten all fasteners.

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite[®]) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Assembly Views

1830-S Telescope On Wall - Steel



1830-P Telescope On Wall - HDPE

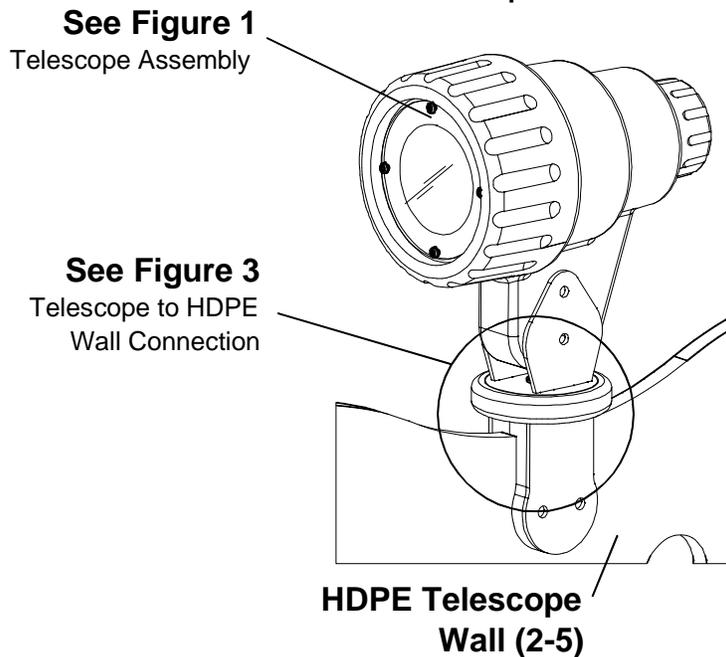


Figure 1

Telescope Assembly

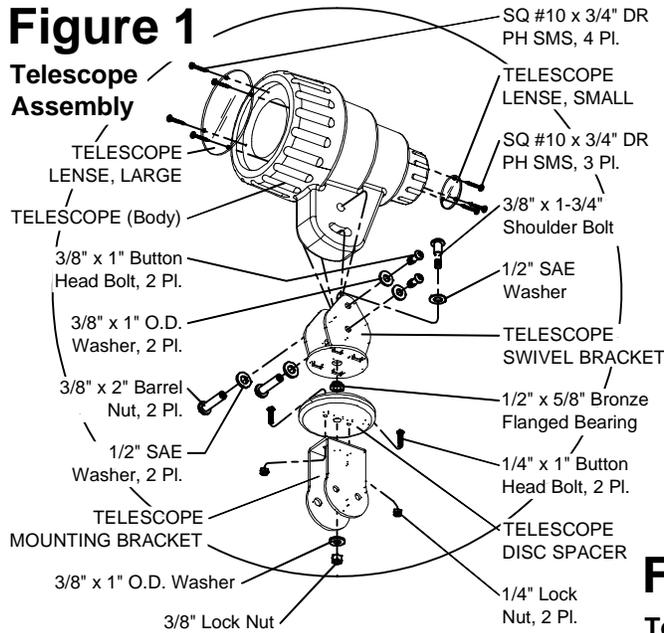


Figure 2

Telescope to Steel Wall Connection

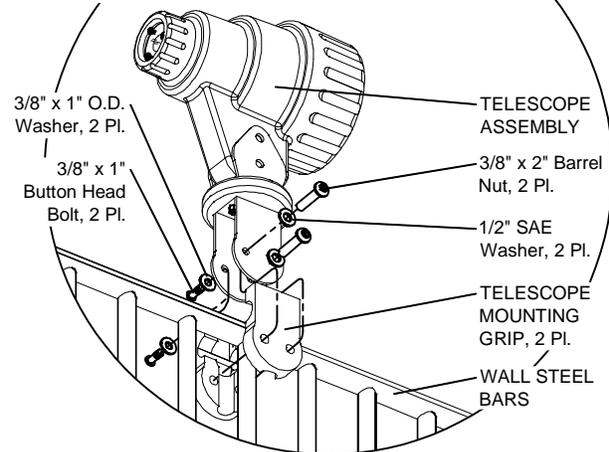
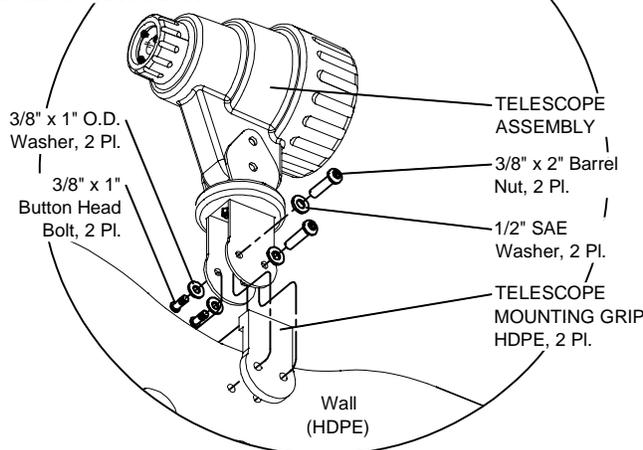


Figure 3

Telescope to HDPE Wall Connection



Parts List

1830-S Telescope on Wall (Steel)

PART #	DESCRIPTION	QTY.
007116	Telescope Mount Grip	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9345002	Washer Flat SAE 1/2"	2
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Parts List

1830-P Telescope on Wall (HDPE)

PART #	DESCRIPTION	QTY.
004624	Telescope Mount Grip HDPE	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9345002	Washer Flat SAE 1/2"	2
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Assembled Parts List

PART #	DESCRIPTION	QTY.
004523	Telescope (Body)	1
004579	Telescope Mounting Bracket	1
004584	Telescope Disc Spacer Wall	1
004585	Telescope Lens Small and Large	1 Set
562005	Bearing Flanged Bronze 1/2" x 5/8"	1
FS-1830	Telescope Swivel Bracket	1
9101052-TR	Bolt Button Head 1/4" x 1"	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
91431-CUT	Bolt Shoulder 3/8" x 1-3/4" BH	1
9251032	Screw SQ #10 x 3/4" DR PH SMS	7
9333002	Washer Flat 3/8" x 1" x .100 thick	3
9345002	Washer Flat SAE 1/2"	3
9411012	Nut Lock 1/4"	2
9413002	Nut Lock 3/8"	1
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

Installation

Step 1. (Factory Assembled)

Assemble Telescope. Refer to Figure 1 for hardware type and orientation. Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE " Section of the Installation Manual. See Note A.

Step 2a. *Wall (Steel) ONLY*

Attach Telescope Assembly to Wall. Refer to Figure 2 for hardware type and orientation.

Step 2b. *HDPE (Wall/Panel) ONLY*

Attach Telescope Assembly to Wall. Refer to Figure 3 for hardware type and orientation.

Step 3.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE " Section of the Installation Manual. See Note A.

Specifications

TELESCOPE (Body):

Shall be constructed of UV-stabilized rotationally molded Linear Low Density Polyethylene with an average single wall thickness of .250".

TELESCOPE MOUNTING BRACKET:

Shall be precision laser-cut and formed from 3/16" thick H.R. sheet steel. The Telescope Mounting Bracket has a multi-stage baked-on powder coat finish.

TELESCOPE DISC SPACER WALL and MOUNTING GRIP:

Shall be fabricated using 3/4" High Density Polyethylene hot-extruded plastic specially formulated for optimum UV stability and color Retention.

TELESCOPE LENS SMALL and LARGE:

Shall be fabricated using .118" thick Polycarbonate.

TELESCOPE SWIVEL BRACKET:

Shall be 3-pieces precision laser-cut and welded together from 3/16" thick H.R. sheet steel. The Telescope Swivel Bracket has a multi-stage baked-on powder coat finish.

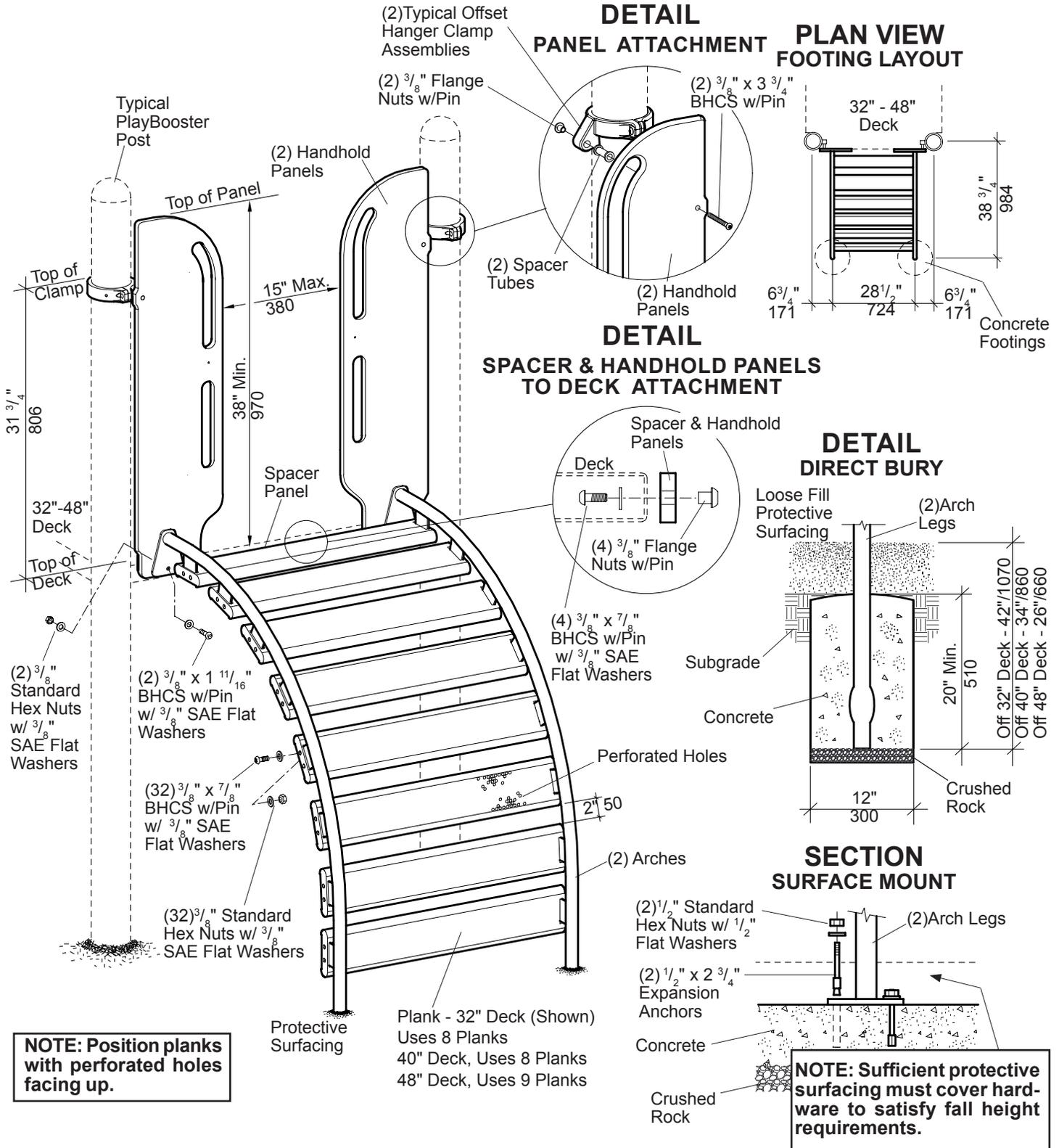
HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.



WESTMORLAND PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS



Parts List

Part#	Description	Qty.
113226	Plank 32" & 40", Specify Color	8
113226	Plank 48", Specify Color	9
139563	Handhold Panel, Specify Color	2
122776	Spacer Panel, Specify Color	1
113255	32" & 40" Arch (DB), Specify Color	2
113613	48" Arch (DB), Specify Color	2
114190	40" Arch (SM), Specify Color	2
114188	48" Arch (SM), Specify Color	2
105327	5" Half Clamp, Specify Clamp	2
113729	Offset Hanger Clamp, Specify Color	2
113468	Spacer Tube, Specify Color	2
148138	32" & 40" Tenderdeck 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	36
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100327	3/8" Standard Hex Nut, SST	34
100351	3/8" Tee nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	6
100365	3/8" SAE Flat Washer, SST	72
123224	3/8" x 1 11/16" BHCS w/Pin, SST	2
148139	48" Tenderdeck 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	40
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100327	3/8" Standard Hex Nut, SST	38
100351	3/8" Tee nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	6
100365	3/8" SAE Flat Washer, SST	80
123224	3/8" x 1 11/16" BHCS w/Pin, 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

Arch: Weldment comprised of 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing and 3/8" x 2 1/2" x 2 3/4" flat steel plates. Finish: ProShield®, color specified.

Plank: Flange formed from 12 GA (.105) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" diameter holes. Finish: TenderTuff™, color specified.

Handhold Panel: Solid color Permalene®, color specified.

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

Spacer Tube: Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". 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).

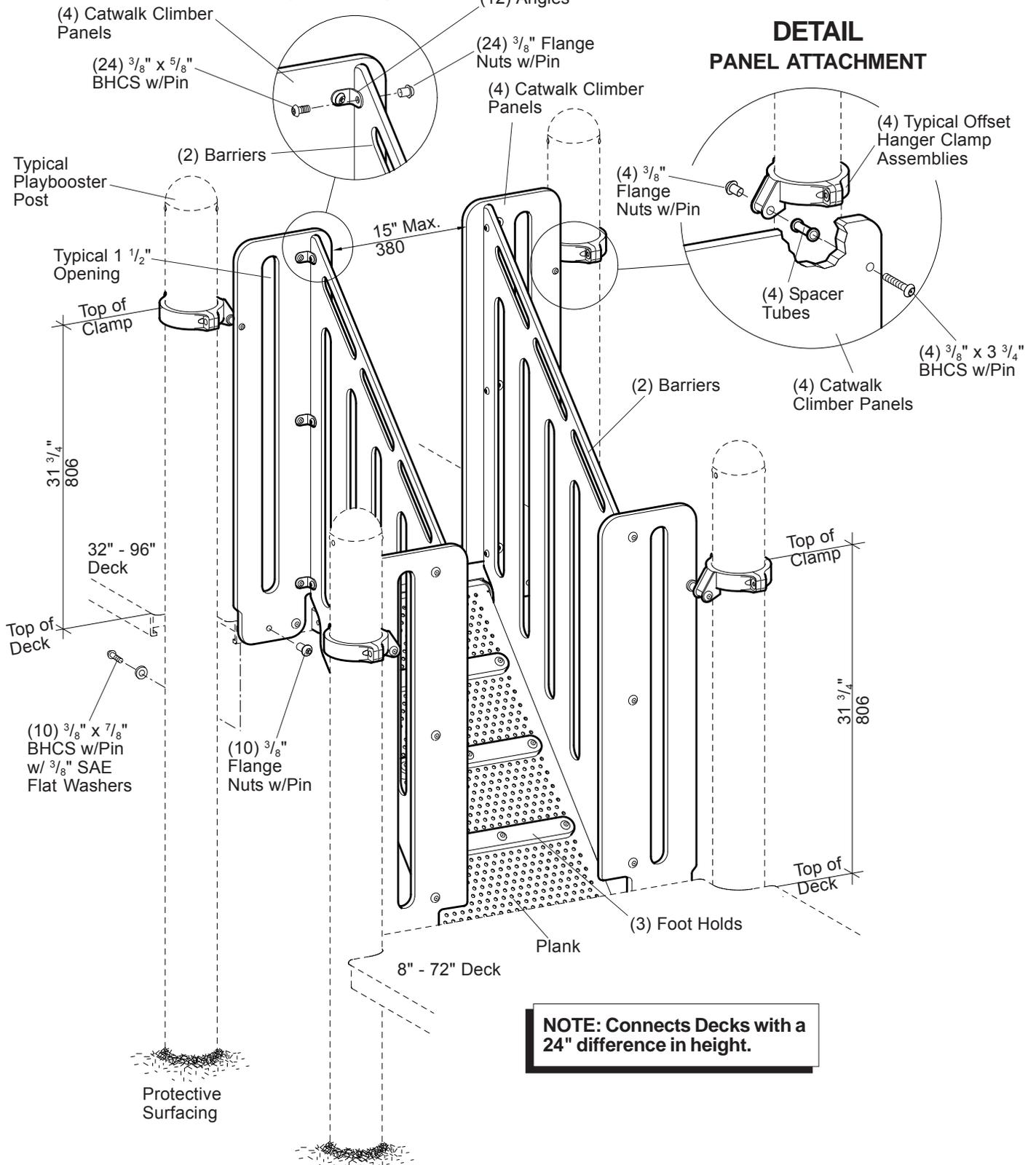
Installation Time: SM - Approx. 2 1/2 man hours
DB - Approx. 3 man hours
Concrete Req.: Approx. 2.6 cu. ft.
Weight: 32" & 40" - 116 lbs.
48" - 126 lbs.
Fall Height: Deck Height

Installation Instructions

- (Direct Bury)** Dig footings as shown.
- Attach arches to handhold panels and the face of deck using 3/8" x 1 11/16" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. **NOTE:** Arches attach to outside holes in handhold panels.
- Attach spacer and 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 Spacer & Handhold Panels To Deck Attachment Detail.
- Attach offset hanger clamps to handhold panels 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.
- 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.
- Insert planks over flanges on arches and attach 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. **NOTE:** Position planks with perforated holes facing up.
- (Direct Bury)** With climber in final position, 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) 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 plate 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
 ANGLE ATTACHMENT** (12) Angles

**DETAIL
 PANEL ATTACHMENT**



Parts List

Part#	Description	Qty.
128292	Plank, Specify Color	1
128302	Foot Hold, Specify Color	3
141224	Catwalk Climber Panel, Specify Color	4
141225	Catwalk Climber Barrier, Specify Color	2
122122	Bracket, Specify Color	2
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
113468	Spacer Tube, Specify Color	4
141480	Catwalk Climber Hardware Package	1
100195	3/8" x 5/8" BHCS w/Pin, SST	24
100196	3/8" x 7/8" BHCS w/Pin, SST	23
100198	3/8" x 1 1/8" BHCS w/Pin, SST	12
100327	3/8" Standard Hex Nut, SST	8
100351	3/8" Tee Nut, SST	8
100353	3/8" Flange Nut w/Pin, SST	47
100365	3/8" SAE Flat Washer, SST	31
105207	1/8" x 1 1/2" x 1 1/2" Angle, SST	12
124460	3/8" x 3 3/4" BHCS w/Pin, SST	4

Specifications

Plank: Flange formed from 11 GA (.120") sheet steel conforming to ASTM A1011. Standing surface is perforated with 1/4" diameter holes. Finish: TenderTuff, color specified.

Foot Hold: Solid color Permalene®, color specified.

Panel/Barrier: Solid color Permalene, color specified.

Bracket: Fabricated form formed 3/16" x 2" HR flat steel. Finish: ProShield®, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" O.D. x 1 1/16". 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).

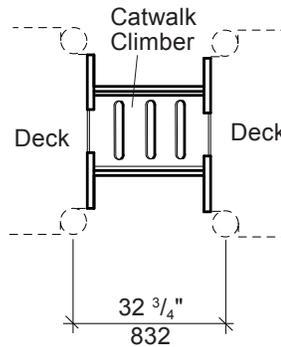
Installation Time: Approx. 2 1/2 man hours

Weight: 112 lbs.

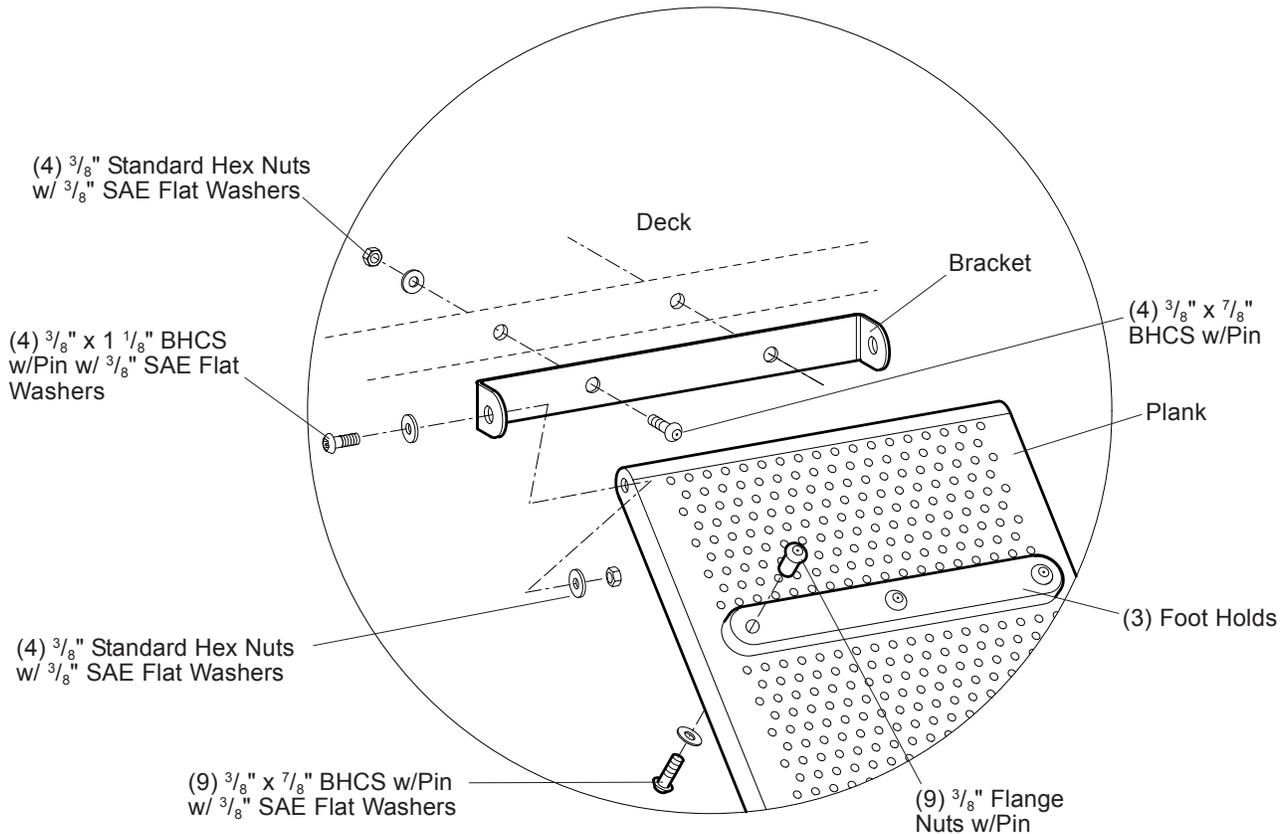
Installation Instructions

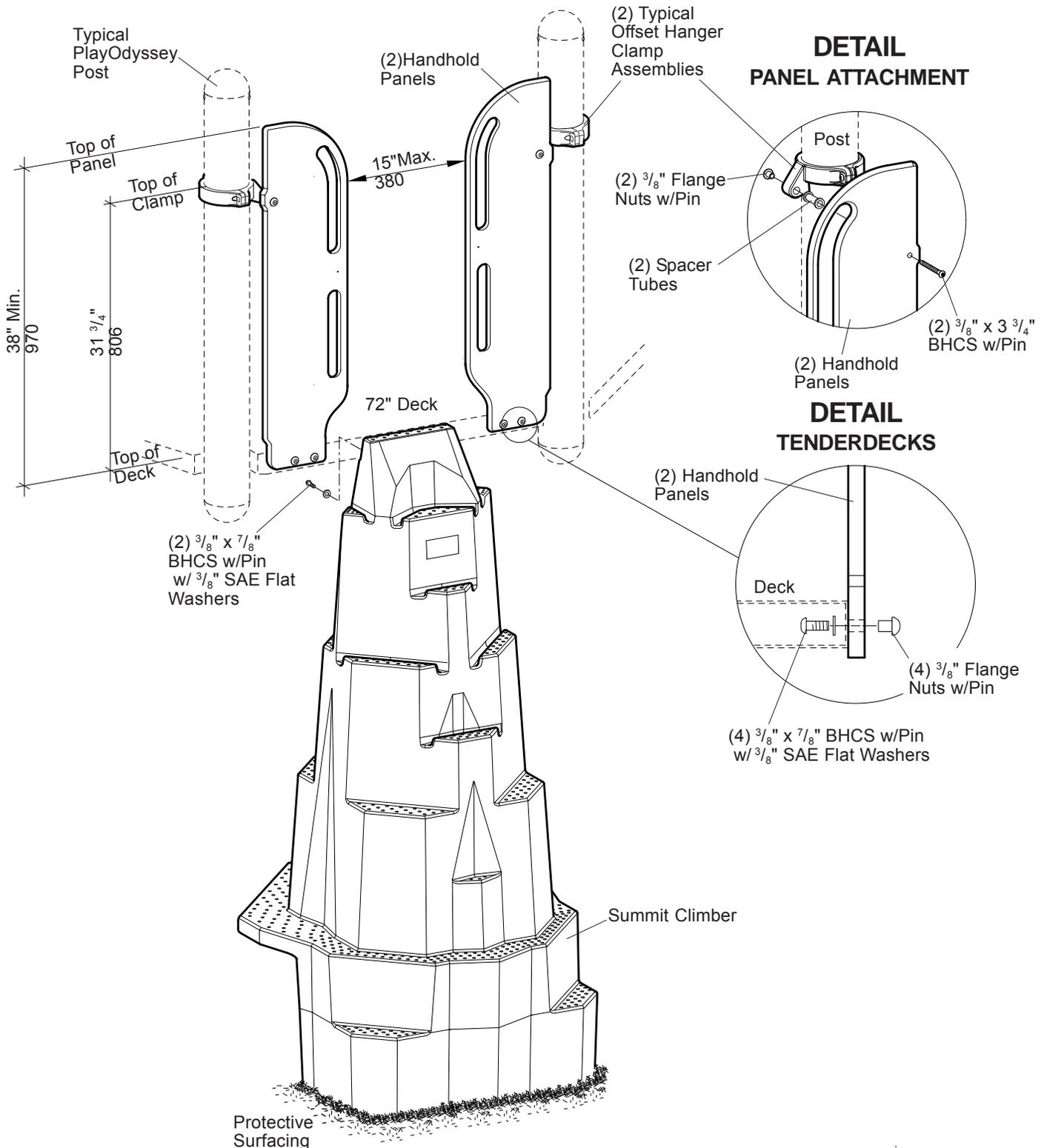
- 1) Attach Catwalk Climber panels to the face of the deck using 3/8" x 7/8" BHCS w/Pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin, as shown.
- 2) Attach offset hanger clamps to posts at height shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/Pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 3) Attach Catwalk Climber 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 foot holds to the plank 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 Plank Attachment Detail.
- 5) Attach brackets to the face of the decks using 3/8" x 7/8" BHCS w/Pin and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to the Plank Attachment Detail.
- 6) Attach the plank to the brackets 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.
- 7) Attach barriers to the Catwalk Climber panels using angles, 3/8" x 5/8" BHCS w/Pin and 3/8" flange nuts w/pin, as shown. Refer to the Angle Attachment Detail.
- 8) Attach barriers to plank using 3/8" x 7/8" BHCS w/Pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin.
- 9) Install protective surfacing before users are allowed to play on the structure.

PLAN VIEW/FOOTING LAYOUT



**DETAIL
PLANK ATTACHMENT**







PlayOdyssey® 129453 Summit Climber, PlayOdyssey 72" Deck

Parts List

Part#	Description	Qty.
126791	Summit Climber, Specify Color	1
139563	Handhold Panel, 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
113468	Spacer Tube, Specify Color	2
180715	Support, Specify Color	1
139899	Summit Climber Pod 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	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	6
100365	3/8" SAE Flat Washer, SST	6
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
129111	Summit Support (DB) Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	2
100362	3/8" Flat Washer, SST	2

Specifications

Summit Climber: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

Handhold Panel: Solid color Permalene®, color specified.

Support: Weldment comprised of 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and 1/4" HR 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.

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

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

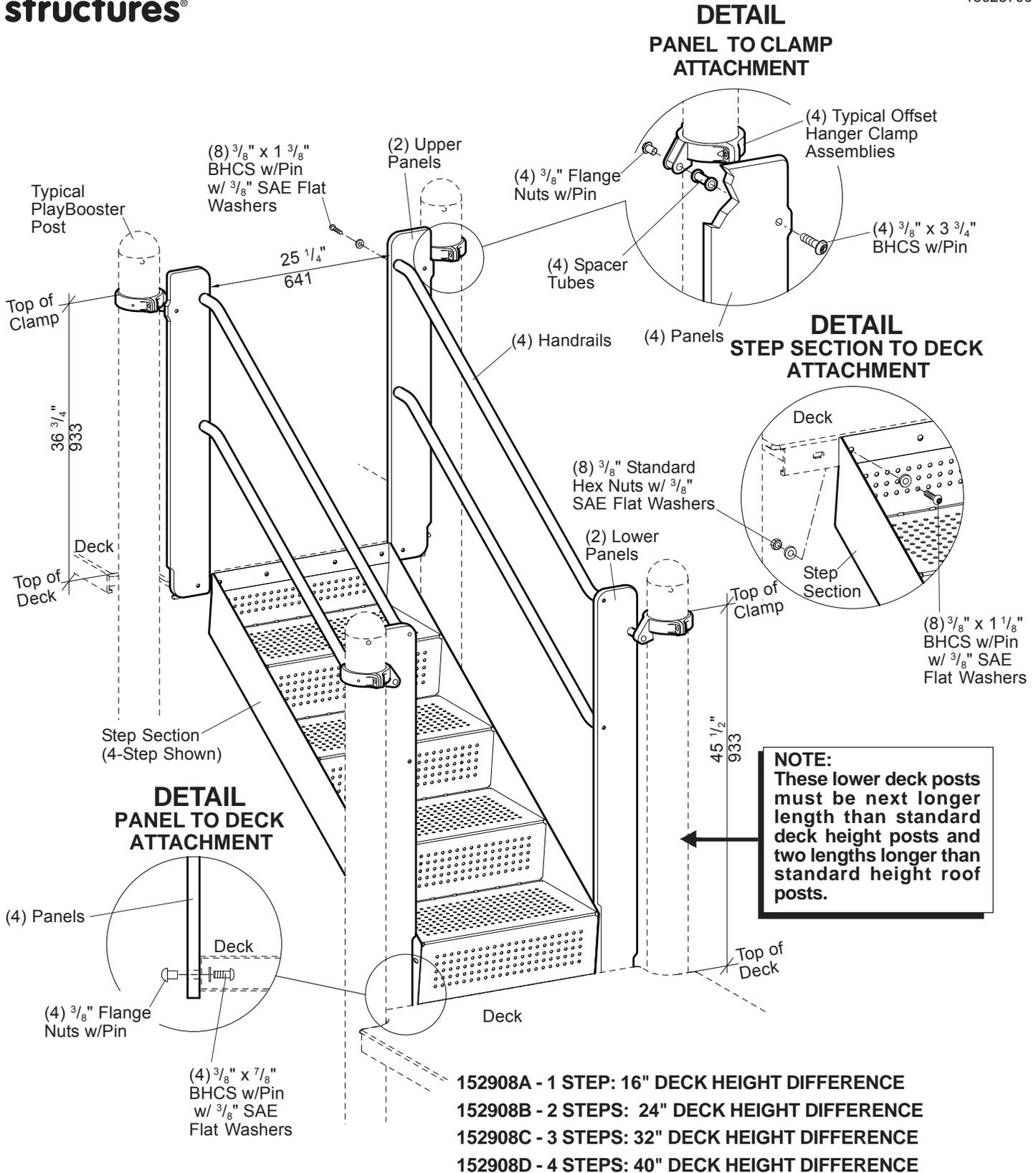
Installation Time: Approx. 3 man hours

Weight: 108 lbs.

Fall Height: Deck Height

Installation Instructions

- 1) Dig footing hole spaced as shown.
- 2) 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.
- 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. Refer to the Tenderdeck Detail.
- 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, as shown. Refer to the Panel Attachment Detail.
- 5) Attach support to summit climber using 3/8" x 1 1/8" BHCS w/pin with 3/8" flat washers, as shown.
- 6) Attach summit climber to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers, as shown.
- 7) Block the summit climber up to keep the weight off the attachment. With summit climber plumb and level, 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.



Parts List

Part#	Description	Qty.
144696	1-Step Section, Specify Color	1
144698	2-Step Section, Specify Color	1
144700	3-Step Section, Specify Color	1
144702	4-Step Section, Specify Color	1
144704	1-Step Handrail, Specify Color	4
144706	2-Step Handrail, Specify Color	4
144708	3-Step Handrail, Specify Color	4
144710	4-Step Handrail, Specify Color	4
144712	Lower Panel, Specify Color	2
144711	Upper Panel, Specify Color	2
113468	Spacer Tube, Specify Color	4
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
156286	Deck Link/Handrail 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	16
100327	3/8" Standard Hex Nut, SST	8
100351	3/8" Tee Nut, SST	8
100353	3/8" Flange Nut w/Pin, SST	8
100365	3/8" SAE Flat Washer, SST	28
113027	3/8" x 1 3/8" BHCS w/Pin, SST	8
124460	3/8" x 3 3/4" BHCS, SST	4

Specifications

Panels: Solid color Permalene®, color specified.

Handrail: 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.

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

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

Installation Time: Approx. 1 1/2 man hours

Weight:
 1-Step - 95 lbs.
 2-Step - 129 lbs.
 3-Step - 165 lbs.
 4-Step - 201 lbs.

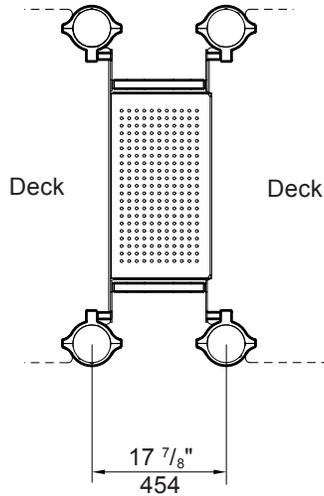
Fall Height: Deck Height

Installation Instructions

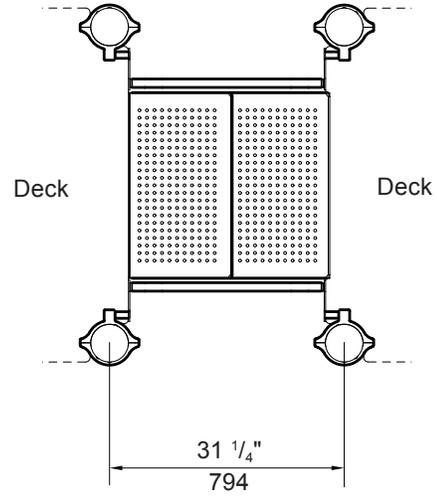
- 1) Attach step section to decks using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers, as shown. Refer to the Step Section To Deck Attachment Detail.
- 2) Attach upper and lower panels to the face of the deck using 3/8" x 7/8" BHCS w/pin with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

PLAN VIEW/FOOTING LAYOUTS

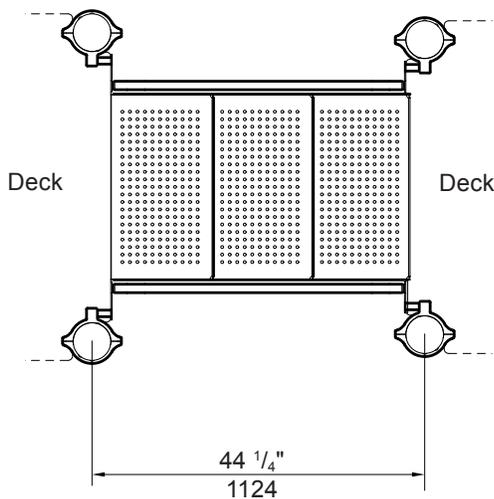
FOOTINGS/ 1-STEP



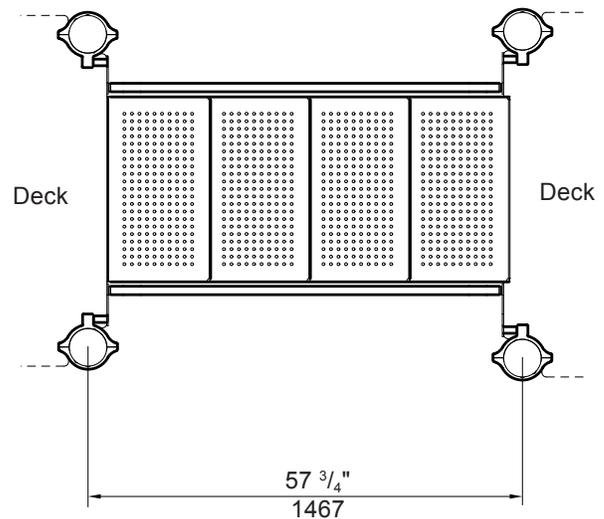
FOOTINGS/ 2-STEP



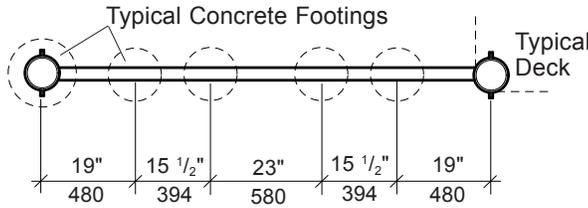
FOOTINGS/ 3-STEP



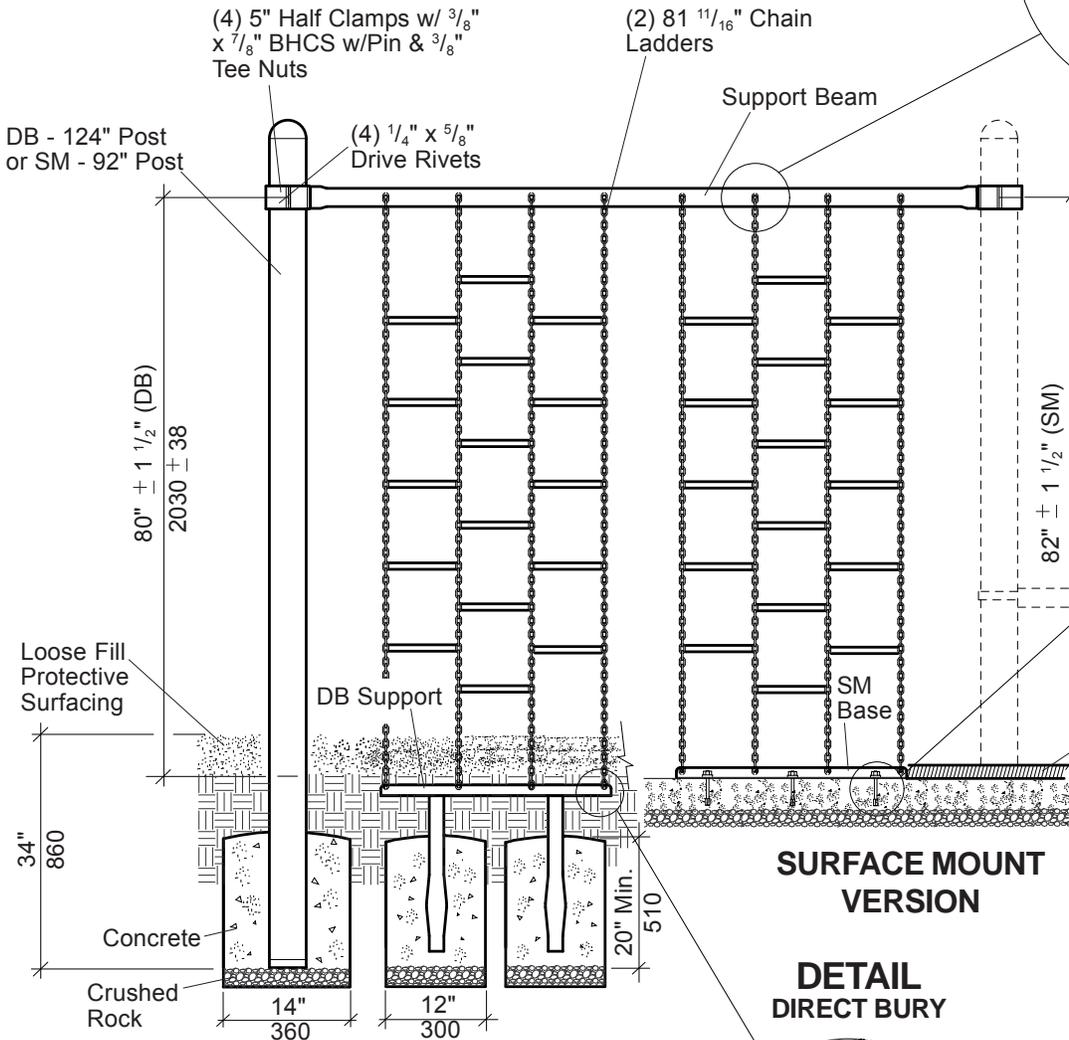
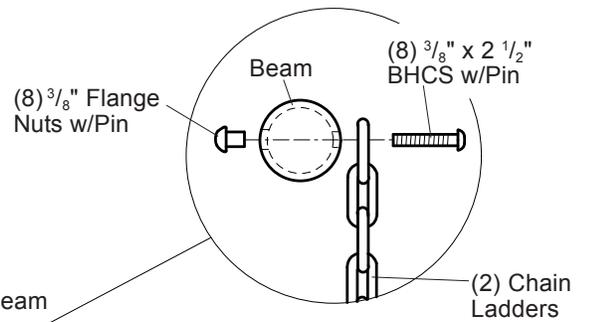
FOOTINGS/ 4-STEP



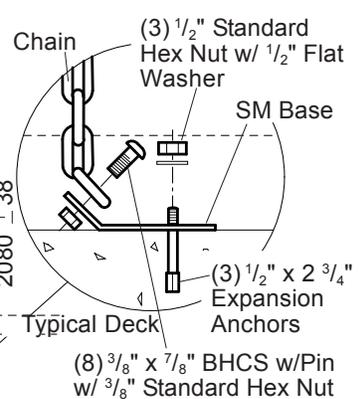
DIRECT BURY FOOTINGS



DETAIL CHAIN ATTACHMENT

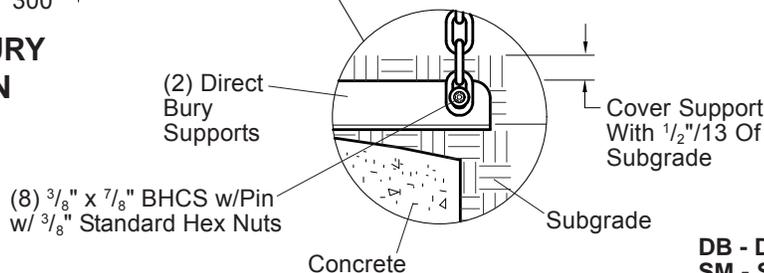


DETAIL SURFACE MOUNT BASE



SURFACE MOUNT VERSION

DETAIL DIRECT BURY



DIRECT BURY VERSION

DB - Direct Bury
SM - Surface Mount

Parts List

Part#	Description	Qty.
107700	124" Aluminum Post, (DB), Specify Color	1
107525	124" Steel Post, (DB), Specify Color	1
107626	92" Aluminum Post, (SM), Specify Color	1
107472	92" Steel Post, (SM), Specify Color	1
103308	Support, DB, Specify Color	2
104347	Base, SM	2
163216	Support Beam, Specify Color	1
105327	5" Half Clamp, Specify Color	4
150532	81 11/16" Chain Ladder, Specify Color	2
132626	5/16" x 7/8" BHCS w/Pin, SST	64
149819	1 3/16" Dia. x 9 9/16" Rail	32
150531	4/0 x 81 9/16" Chain, Specify Color	8
163217	Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	16
100351	3/8" Tee Nut, SST	8
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
100174	3/8" x 2 1/2" BHCS w/Pin, SST	8
100327	3/8" Standard Hex Nut, SST	8
100353	3/8" Flange Nut w/Pin, SST	8
156847	Play Safe Label, 5-12 Yrs.	1
121348	4 Hole (SM) Hardware Package	2
100266	1/2" x 2 3/4" Expansion Anchor	8
100322	1/2" Standard Hex Nut, SST	8
100363	1/2" Flat Washer, SST	8
118613	3 Hole (SM) Hardware Package	2
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

Support Beam: Weldment comprised of 2.375" O.D. RS20 (.095"-.105") galvanized steel tubing, 1/4" x 3" wide half clamps and zinc plated chain rings. Finish: ProShield®, color specified.

Support (DB): Weldment comprised of 1.900" O.D. RS20 (.090"-.100") galvanized steel tubing and 11 GA (.120") 4" x 30" zinc plated steel strap. Finish: ProShield, color specified.

Base (SM): Fabricated from 11 GA (.120") 4" x 30" flat steel zinc-plated with a 65° bend.

Ladder: Comprised of 4/0 zinc plated chain. Finish: TenderTuff, color specified, and 1 3/16" O.D. 6061 aluminum rails. Finish: TenderTuff™, color specified.

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

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

Installation Time: SM - Approx. 2 1/2 man hours
DB - Approx. 3 1/2 man hours
Concrete Req.: DB - Approx. 8 cu. ft.
Area Req.: 6' (1,83 m) minimum use zone
Weight: Steel - 192 lbs.
Aluminum - 142 lbs.
Fall Height: 84" (2,13 m)

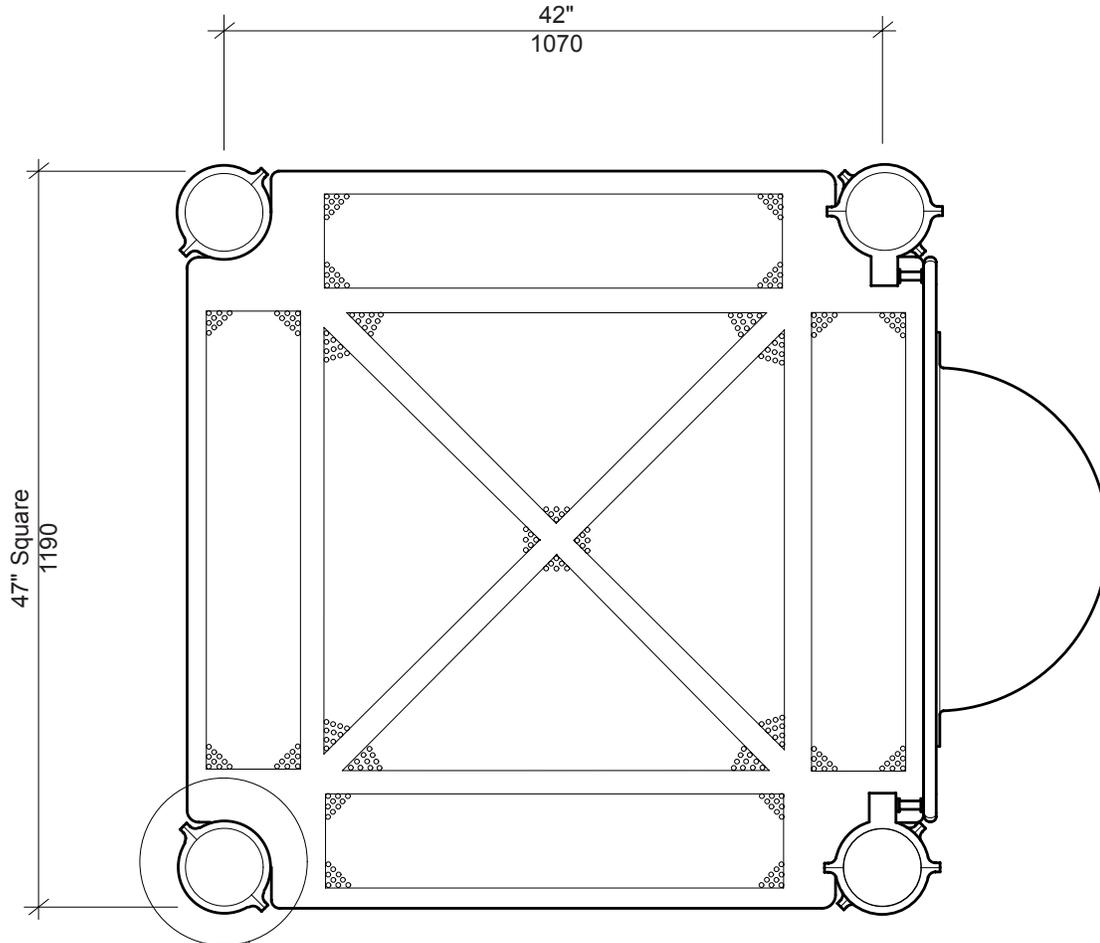
Installation Instructions

Direct Bury

- 1) Dig footings spaced and to depths as shown.
- 2) Set posts in footing holes and attach support beam to posts at height shown using 5" half clamps and 3/8" x 7/8" BHCS w/pin with 3/8" tee nuts.
- 3) Attach chain ladders to support beam using 3/8" x 2 1/2" BHCS w/pin and 3/8" flange nuts w/pin. See Chain Attachment Detail.
- 4) Fasten chain ladder to support using 3/8" x 7/8" BHCS w/pin and 3/8" standard hex nuts.
- 5) Plumb posts and level beam. Pour concrete footings. Push chain ladder support into concrete until it is flush with top of subgrade. Temporarily weigh base down so it remains in position until concrete has cured.
- 6) After concrete has cured for a minimum of 72 hours, adjust beam to tighten chain if necessary.
- 7) Install 1/4" x 5/8" drive rivets at each end of beam in 5" half clamps. Drill through hole in half clamps and into 5" pipe with a 1/4" or "F" (only) drill bit, insert rivet in hole and hammer rivet pin in until it is flush with head.
- 8) Install protective surfacing before users are allowed to play on the structure.

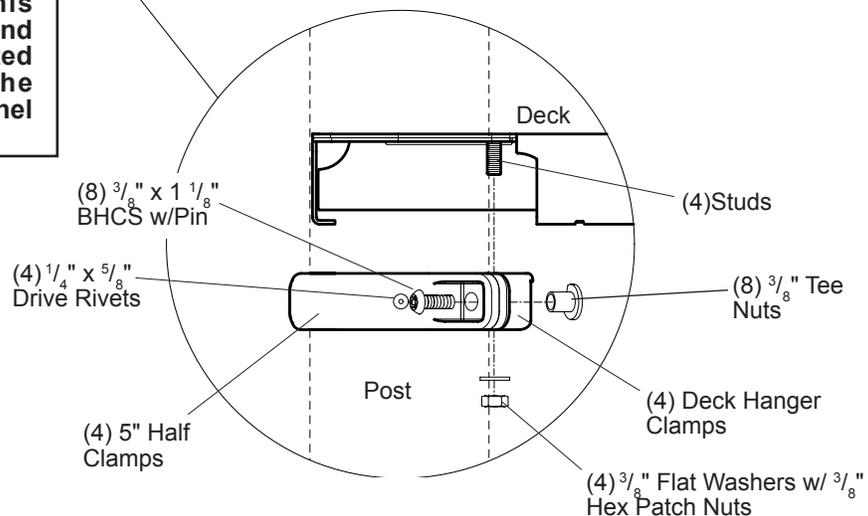
Surface Mount

- 1) Attach support beam to posts at height shown using 5" half clamps and 3/8" x 7/8" BHCS w/pin with 3/8" tee nuts.
- 2) Attach chain ladders to support beam using 3/8" x 2 1/2" BHCS w/pin and 3/8" flange nuts w/pin. See Chain Attachment Detail.
- 3) Fasten chain ladder to base using 3/8" x 7/8" BHCS w/pin and 3/8" standard hex nuts.
- 4) With posts and chain ladder bases in final position, drill through post base plate and chain ladder bases 3" deep into concrete slab using 1/2" masonry bit and hammer drill. Tap expansion anchors into drilled holes and secure with 1/2" standard hex nuts with 1/2" flat washers.
- 5) Install protective tiles 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).

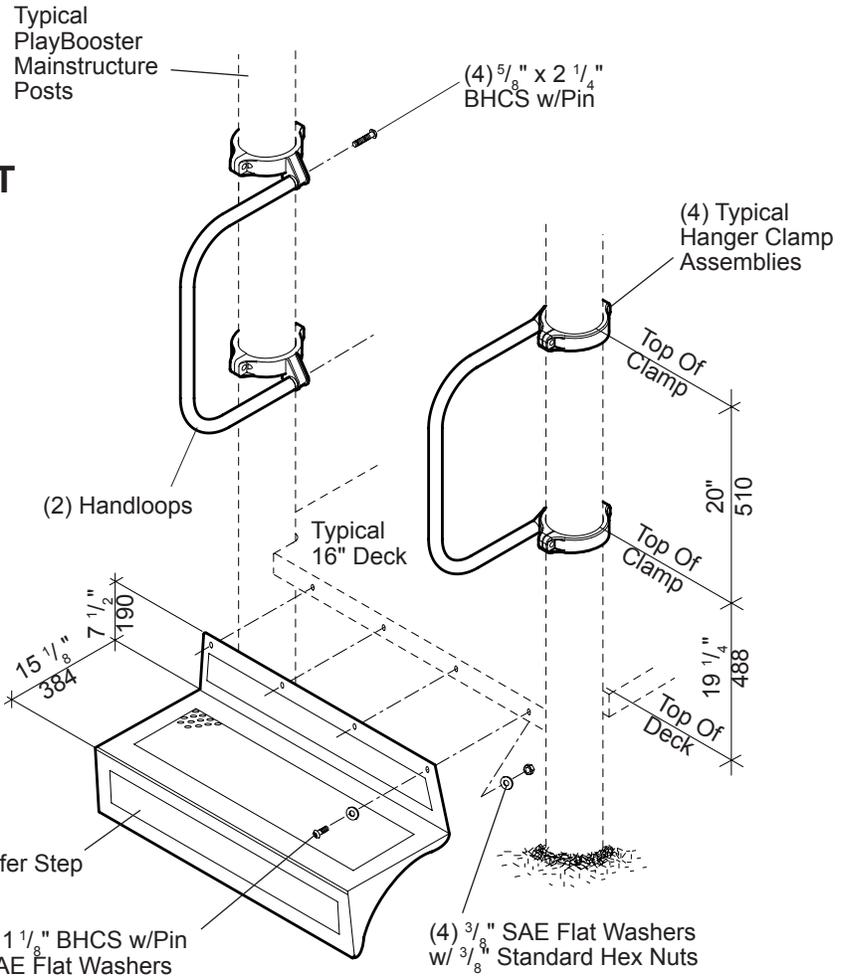
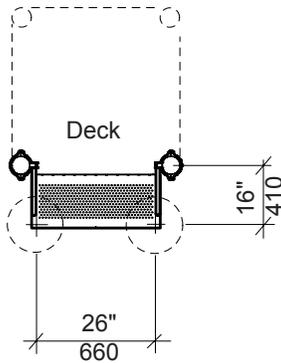
Installation Time: Approx. 1 man hour

Weight: 119 lbs.

Installation Instructions

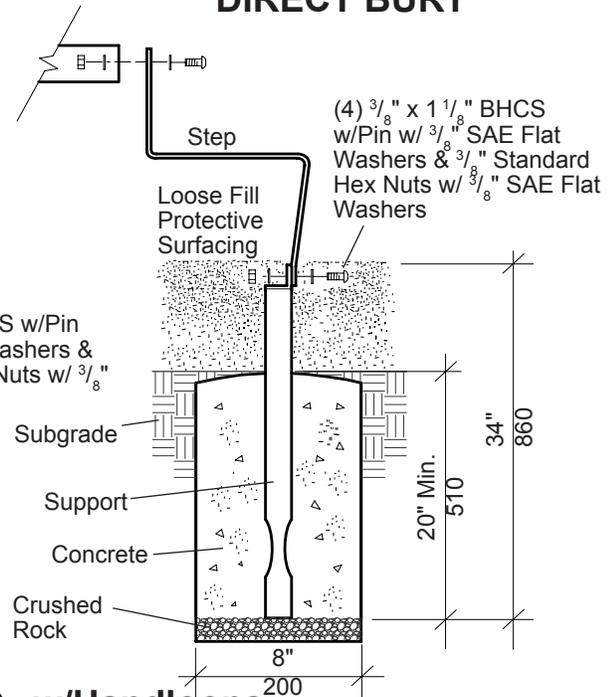
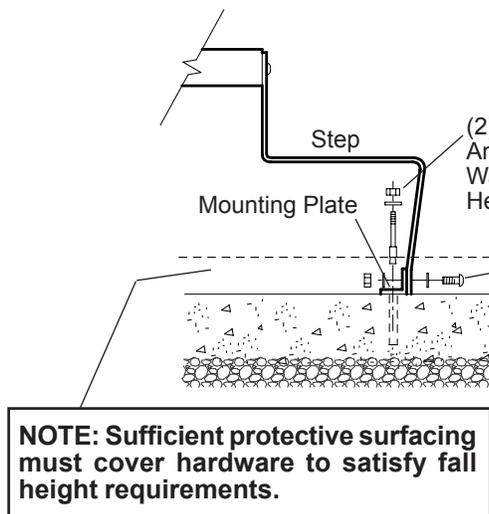
- 1) Mark posts for the appropriate height of the deck you are installing.
- 2) Fasten hanger clamps to marked position on posts. See Detail on front of sheet.
- 3) Lift deck into position, lining up studs underneath deck with deck hanger clamp as shown. Attach with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " 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.

PLAN/FOOTING LAYOUT



DIRECT BURY

SURFACE MOUNT





PlayBooster® 185852 Transfer Step, w/Handloops

Parts List

Part#	Description	Qty.
149024	Transfer Step, Specify Color	1
181342	Transfer Step, Support (DB), Specify Color	1
181343	Transfer Step, Mounting Plate (SM), Specify Color	1
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
108542	Handloop, Specify Color	2
125741	Transfer Step Leg Hardware Package (DB)	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100327	3/8" Standard Hex Nut, SST	4
100365	3/8" SAE Flat Washer, SST	8
125740	Transfer Step Leg Hardware Package (SM)	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100263	3/8" x 2 3/4" Expansion Anchor	2
100327	3/8" Standard Hex Nut, SST	6
100365	3/8" SAE Flat Washer, SST	10
127148	Transfer Step Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	8
100327	3/8" Standard Hex Nut, SST	4
114309	Handloop/Rail Hardware Package	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8
100203	5/8" x 2 1/4" BHCS w/Pin, SST	4
100351	3/8" Tee Nut, SST	8
100610	1/4" x 5/8" Drive Rivet, SST	4

DB = Direct Bury
SM = Surface Mount

Specifications

Step:	Formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Finish: TenderTuff™, 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.
Handloop:	Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with 5/8" internal thread. Finish: TenderTuff, color specified.
Clamps:	Cast aluminum. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 1 1/2 man hours
Concrete Req.:	DB - 1.16 cu. ft.
Weight:	SM - 69 lbs. DB - 77 lbs.

Specifications are subject to change without notice.

Installation Instructions

Direct Bury

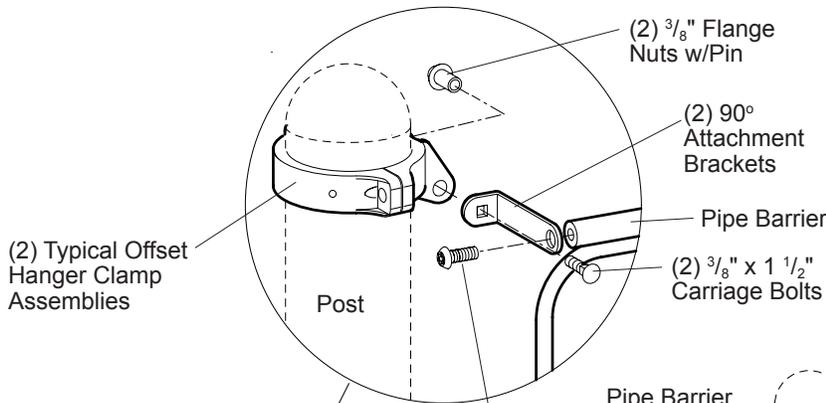
- 1) Dig footings spaced as shown.
- 2) Mark locations of clamps on posts per dimensions on front of sheet.
- 3) Attach offset hanger clamps to ends of handloops using 5/8" x 2 1/4" BHCS w/pin.
- 4) Position handloops with offset hanger clamps on marked positions on posts and attach using 5" half clamps and 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Assembly Sheet.
- 5) Install drive rivets in half clamps per the Typical Offset Hanger Clamp Assembly Sheet.
- 6) Attach transfer step support to transfer step 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.
- 7) Attach transfer step to 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 as shown.
- 8) With deck and steps in level position, pour concrete footings. Allow concrete to cure for a minimum of 72 hours before users are allowed to play on the structure.
- 9) Install protective surfacing before users are allowed to play on the structure.

Surface Mount

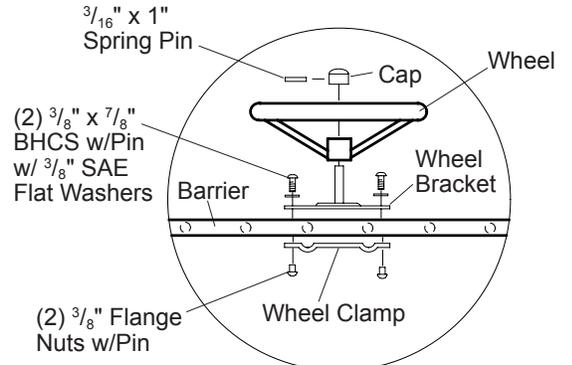
- 1) Mark locations of clamps on posts per dimensions on front of sheet.
- 2) Attach offset hanger clamps to ends of handloops using 5/8" x 2 1/4" BHCS w/pin.
- 3) Position handloops with offset hanger clamps on marked positions on posts and attach using 5" half clamps and 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Assembly Sheet.
- 4) Install drive rivets in half clamps per the Typical Offset Hanger Clamp Assembly Sheet.
- 5) Attach transfer step mounting plate to transfer step 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.
- 6) Attach transfer step to 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 as shown.
- 7) Mark holes for expansion anchors on concrete slab through step mounting plate.
- 8) Detach step from deck and drill 3/8" x 3" deep holes into concrete on marks using 3/8" masonry bit and hammer drill.
- 9) Reattach transfer step to deck.
- 10) With step over drilled holes, tap expansion anchors into drilled holes. Secure using 3/8" standard hex nuts with 3/8" SAE flat washers.
- 11) Install protective surfacing before users are allowed to play on the structure.

ECO 54590 Created new model number and added handloops to Parts List.

**DETAIL
90° ATTACHMENT BRACKETS**

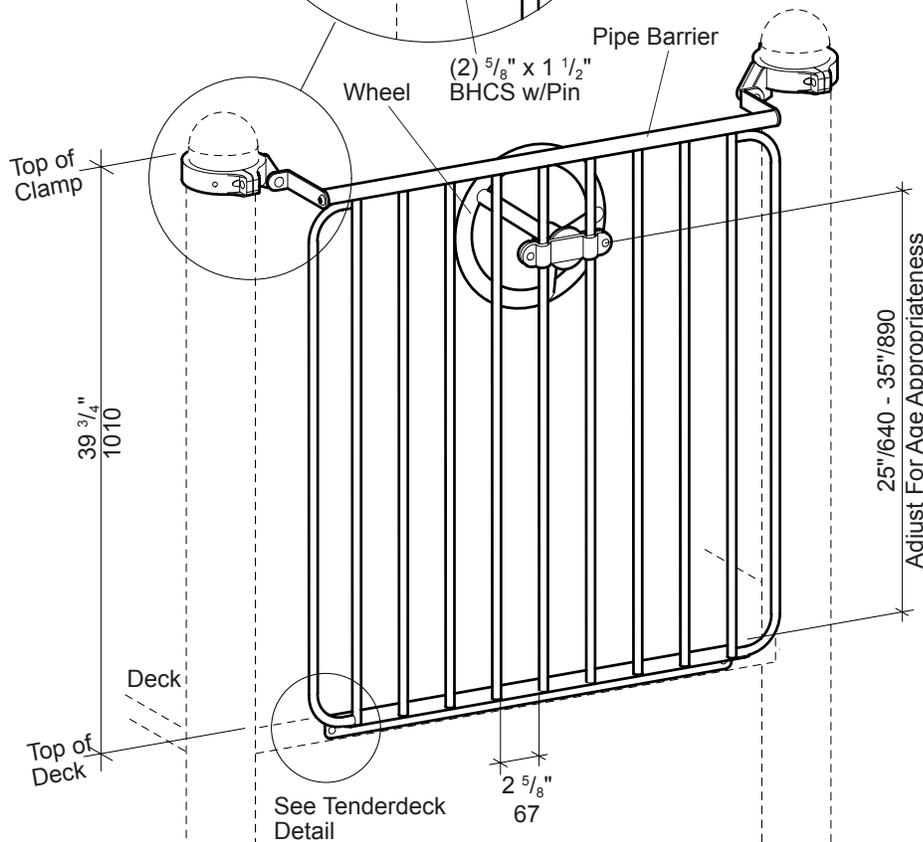
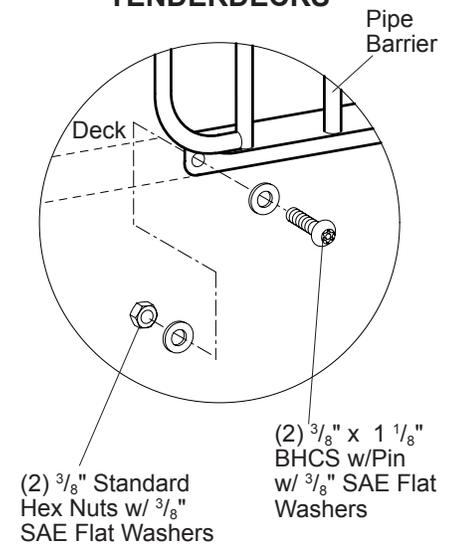


**DETAIL
WHEEL ASSEMBLY**



Refer to Wheel Assembly Details on the back of sheet 2.

**DETAIL
TENDERDECKS**



NOTE: Steering Wheel Infill Panel available. Refer to the Wheel Spec Sheet.

DECK MOUNT

Protective Surfacing

PlayBooster® 116244 Pipe Barrier, w/Wheel

Part#	Description	Qty.
ABOVE DECK		
132755	Pipe Barrier, Specify Color	1
128824	90° Attachment Bracket, Specify Color.....	2
127207	Wheel Clamp, Specify Color.....	1
127242	Steering Wheel Bracket, Specify Color.....	1
108432	Wheel, 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
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
222684	Wire/Pipe Barrier Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100353	3/8" Flange Nut w/Pin, SST.....	2
118452	3/16" x 1" Spring Pin, SST	1
148623	Cap, White.....	1
100365	3/8" SAE Flat Washer, SST.....	2
BELOW DECK		
132755	Pipe Barrier, Specify Color	1
128824	90° Attachment Bracket, Specify Color.....	2
127207	Wheel Clamp, Specify Color.....	1
127242	Steering Wheel Bracket, Specify Color.....	1
108432	Wheel, Specify Color	1
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
222684	Wire/Pipe Barrier Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100353	3/8" Flange Nut w/Pin, SST.....	2
118452	3/16" x 1" Spring Pin, SST	1
148623	Cap, White.....	1
100365	3/8" SAE Flat Washer, SST.....	2
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.
Wheel:	12" diameter cast A356 aluminum alloy. Finish: TenderTuff, 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.

Specifications are subject to change without notice.

Wheel Bracket: Weldment comprised of formed 3/16" plate and 5/8" O.D. stainless steel shaft. Finish: ProShield, color specified.

Wheel Clamp: Formed from 3/16" x 2" HRPO zinc-plated. 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 1/4 man hour

Weight: Above Deck 58 lbs.
Below Deck 62 lbs.

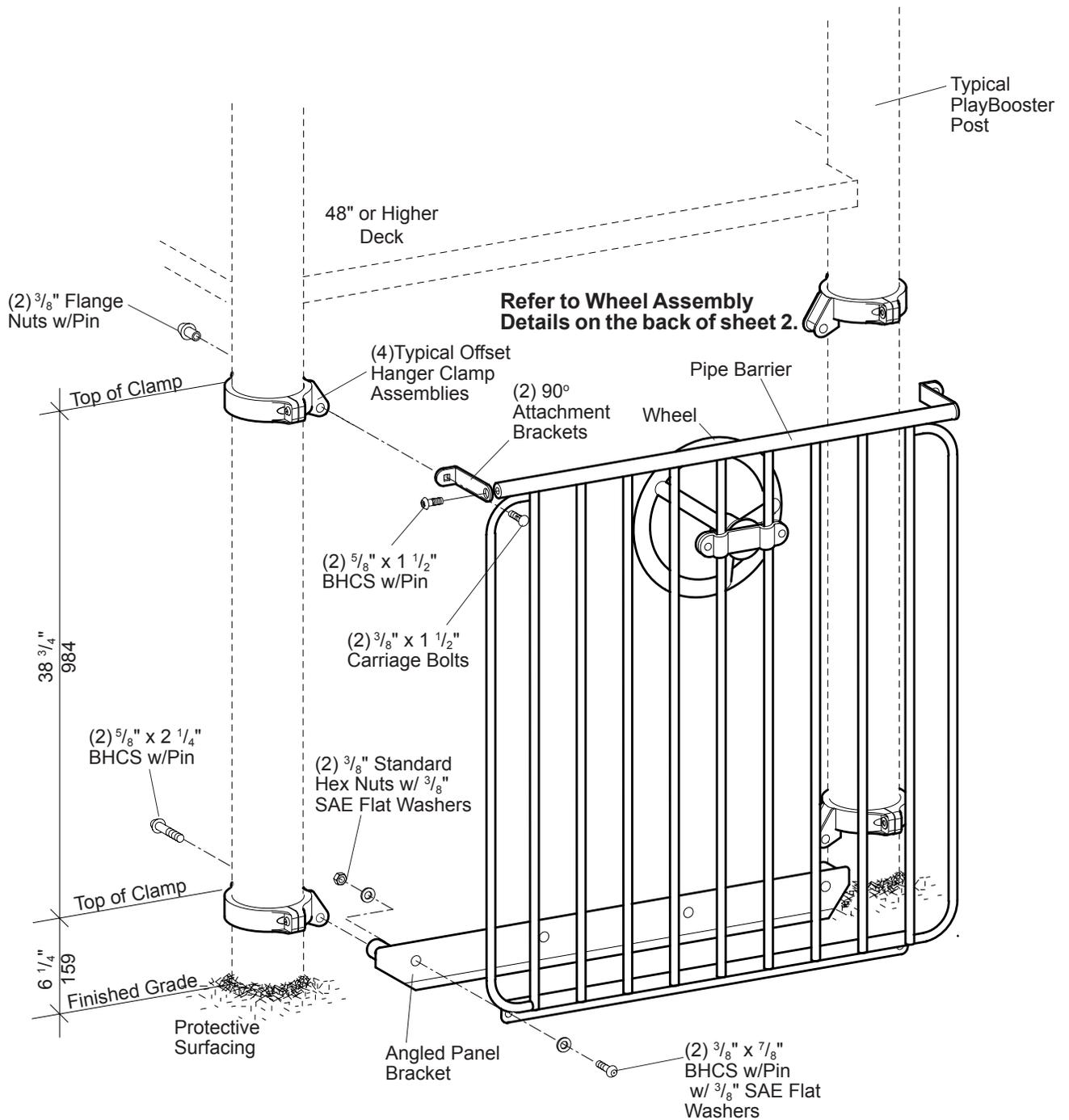
Installation Instructions

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) Attach wheel bracket and wheel clamp to barrier in desired position using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Slide wheel and cap onto wheel bracket shaft and tap 3/16" x 1" spring pin through cap and shaft. Refer To The Wheel Assembly Details on front of sheet 1 and the back of sheet 2.
- 6) 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 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) Attach wheel bracket and wheel clamp to barrier in desired position using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Slide wheel and cap onto wheel bracket shaft and tap 3/16" x 1" spring pin through cap and shaft. Refer To The Wheel Assembly Details on front of sheet 1 and the back of sheet 2.
- 7) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec sheet.
- 8) Install protective surfacing before users are allowed to play on the structure.

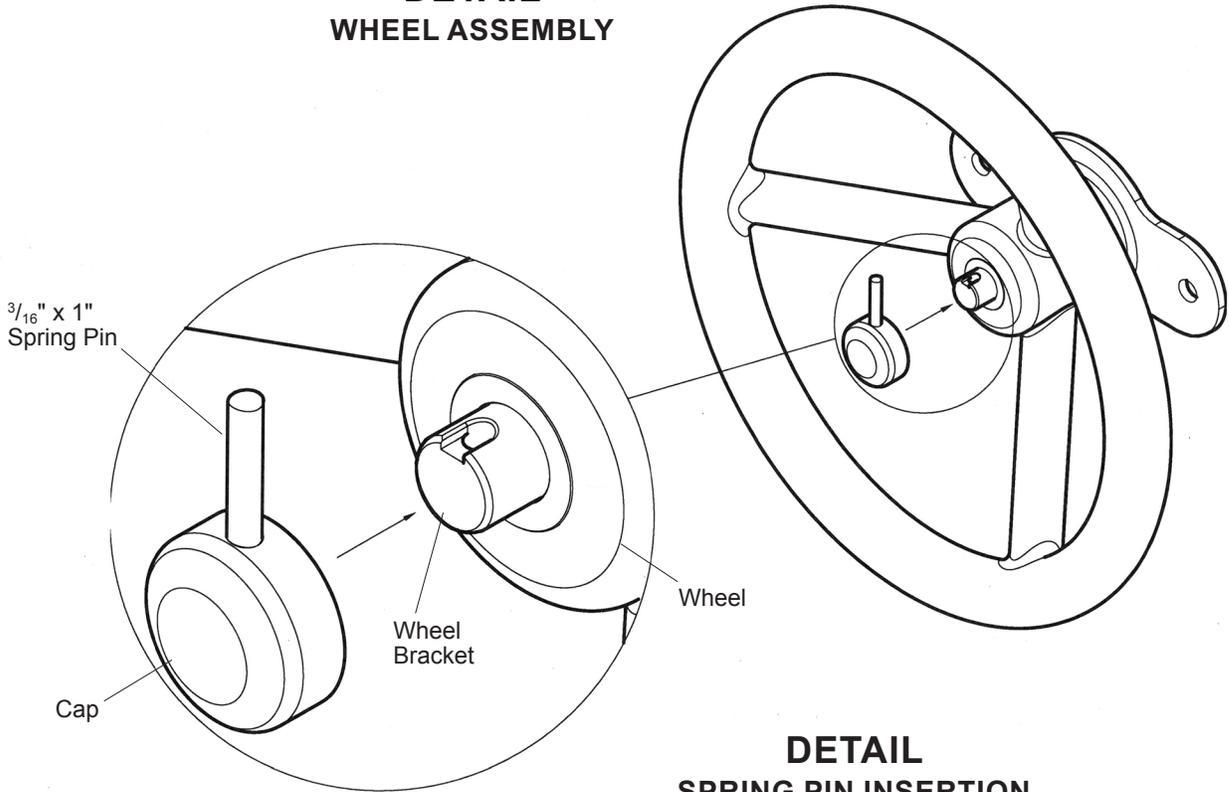


**BELOW
 DECK
 MOUNT**

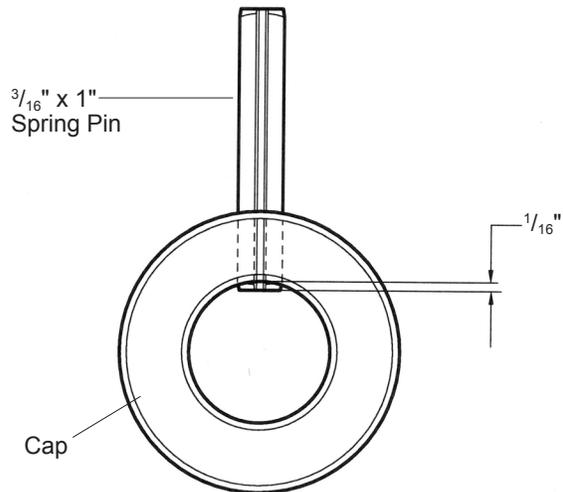
PlayBooster® 116244 Pipe Barrier, w/Wheel

Sheet 2 of 2

**DETAIL
WHEEL ASSEMBLY**

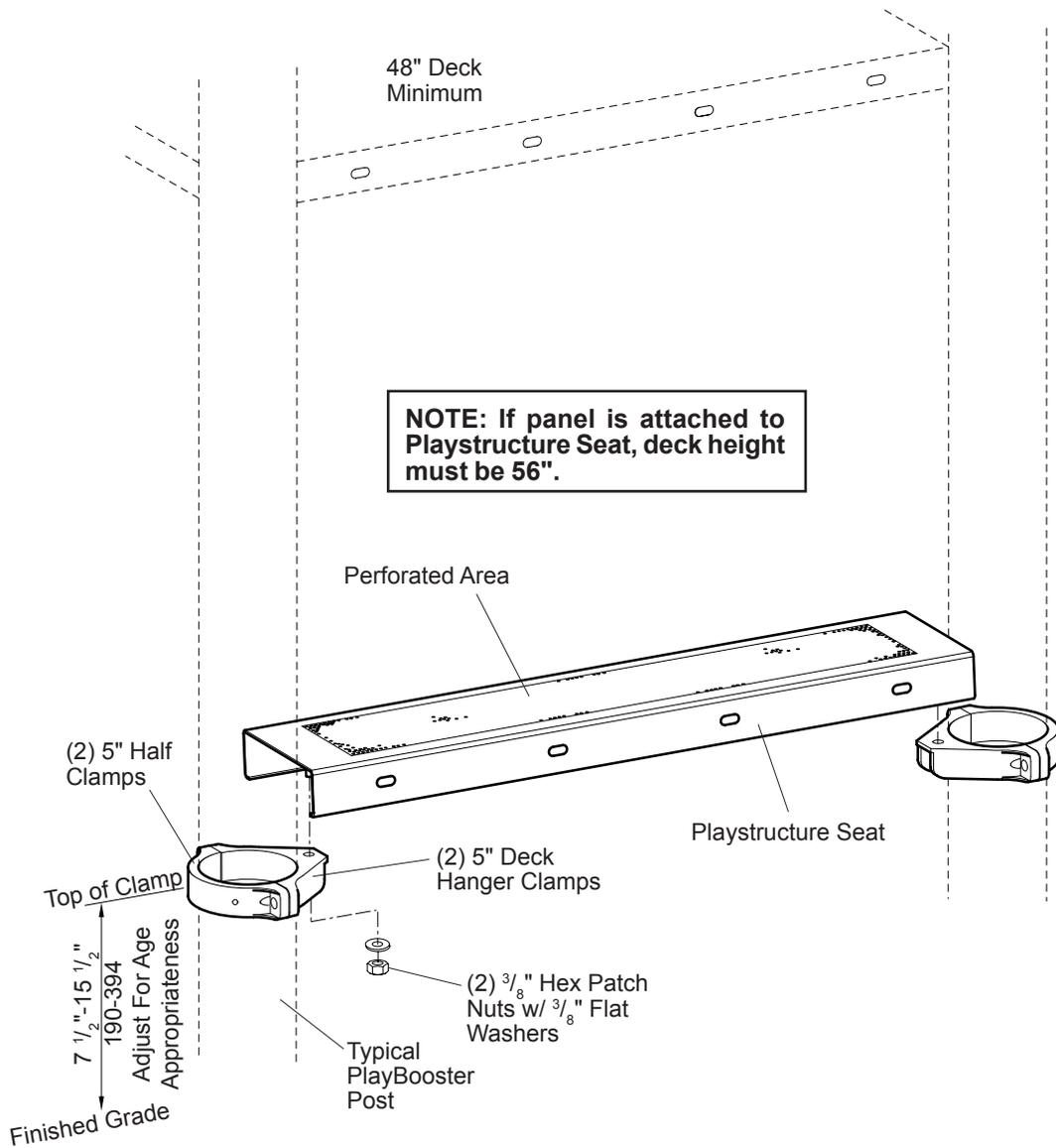
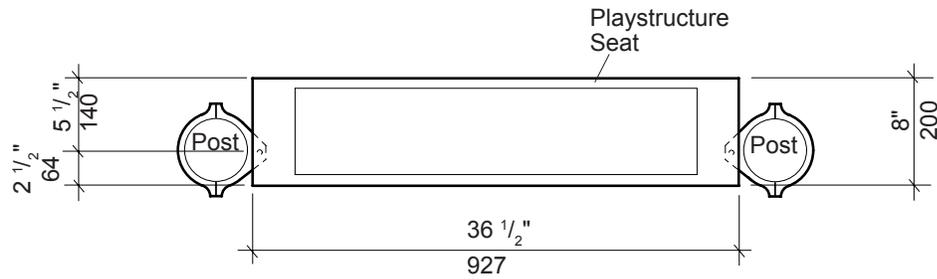


**DETAIL
SPRING PIN INSERTION
(CAP BACK VIEW)**



NOTE: To assist in the alignment of the cap to the wheel bracket shaft, tap spring pin through cap approximately 1/16". Orient spring pin to groove on wheel bracket shaft. Slide cap in place and tap spring pin through cap and shaft until flush.

Top View



PlayBooster® 120818 Playstructure Seat



PlayBooster® 120818 Playstructure Seat

Parts List

Part#	Description	Qty.
153952	Playstructure Seat, Specify Color.....	1
105327	5" Half Clamp, Specify Color	2
106022	5" Deck Hanger Clamp, Specify Color	2
106676	Seat Hardware Package	1
100198	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100321	$\frac{3}{8}$ " Hex Patch Nut, SST.....	2
100351	$\frac{3}{8}$ " Tee Nut, SST.....	4
100362	$\frac{3}{8}$ " Flat Washer, SST	2
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2

Specifications

Seat: Flange formed from 11 GA (.120") sheet steel. Seating surface is perforated with $\frac{5}{16}$ " diameter holes. Finish: TenderTuff™, color specified.

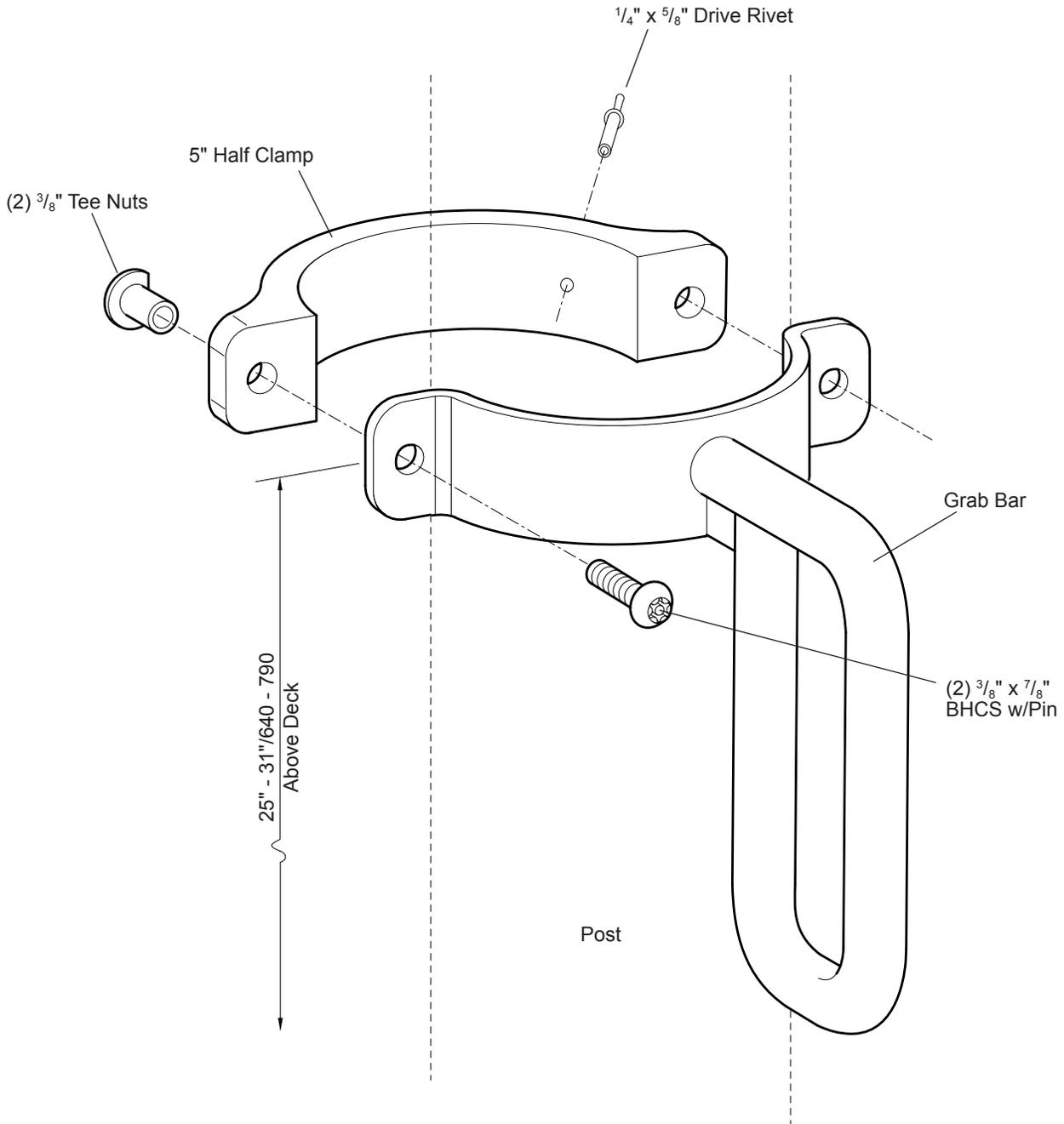
Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield®, color specified.

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: 26 lbs.

Installation Instructions

- 1) Playstructure seat attaches offset to posts. Refer to your site layout for where and which direction the playstructure seat needs to be installed. **NOTE: If panel is attached to Playstructure Seat, deck height must be 56".**
- 2) Mark posts for the appropriate height of the playstructure seat you are installing. **NOTE: Height is adjustable 8"-16".**
- 3) Fasten 5" deck hanger clamps to the marked position on posts 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.
- 4) Position seat over 5" deck hanger clamps and attach using $\frac{3}{8}$ " hex patch nuts with $\frac{3}{8}$ " flat washers, as shown.
- 5) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.





PlayBooster® 120901 Grab Bar

Parts List

Part#	Description	Qty.
105327	5" Half Clamp, Specify Color	1
141541	Grab Bar, Specify Color	1
106518	Grab Bar Hardware Package	1
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	2
100351	³ / ₈ " Tee Nut, SST.....	2
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	1

Specifications

Grab Bar: Weldment comprised of formed ⁷/₈" O.D. 11 GA (.120") and ¹/₄" x 1 ³/₄" stainless steel half clamp. Finish: TenderTuff™, color specified.

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

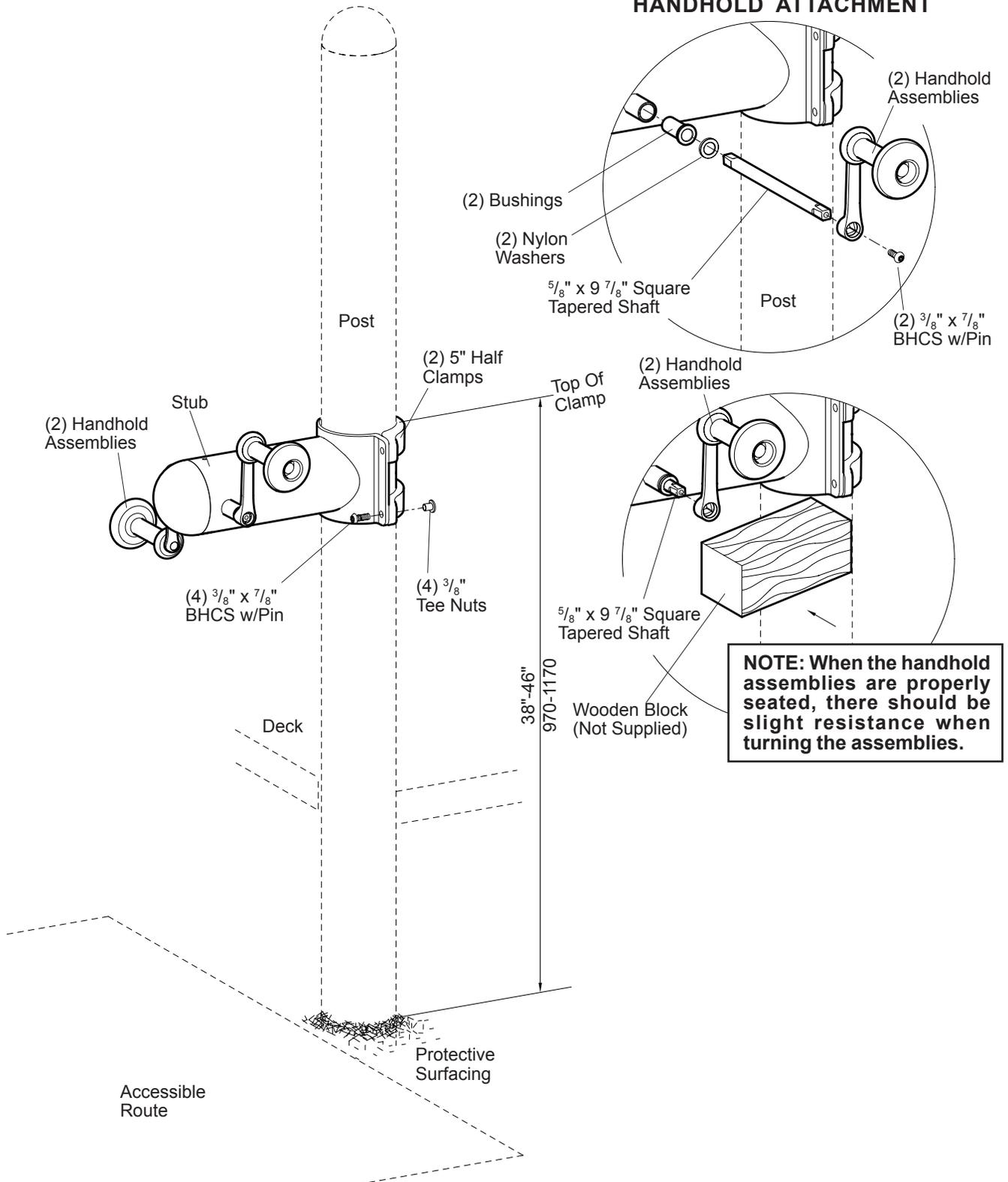
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. ¹/₄ man hour
Weight: 5 lbs.

Installation Instructions

- 1) Attach grab bar to post at height shown, using a 5" half clamp, ³/₈" x ⁷/₈" BHCS w/pin and ³/₈" tee nuts.
- 2) Install ¹/₄" x ⁵/₈" drive rivet in 5" half clamp. Refer to the Offset Hanger Clamp Spec Sheet.
- 3) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
HANDHOLD ATTACHMENT**



PlayBooster® 153165 Stationary Cycler, Accessible



PlayBooster® 153165 Stationary Cyler, Accessible

Parts List

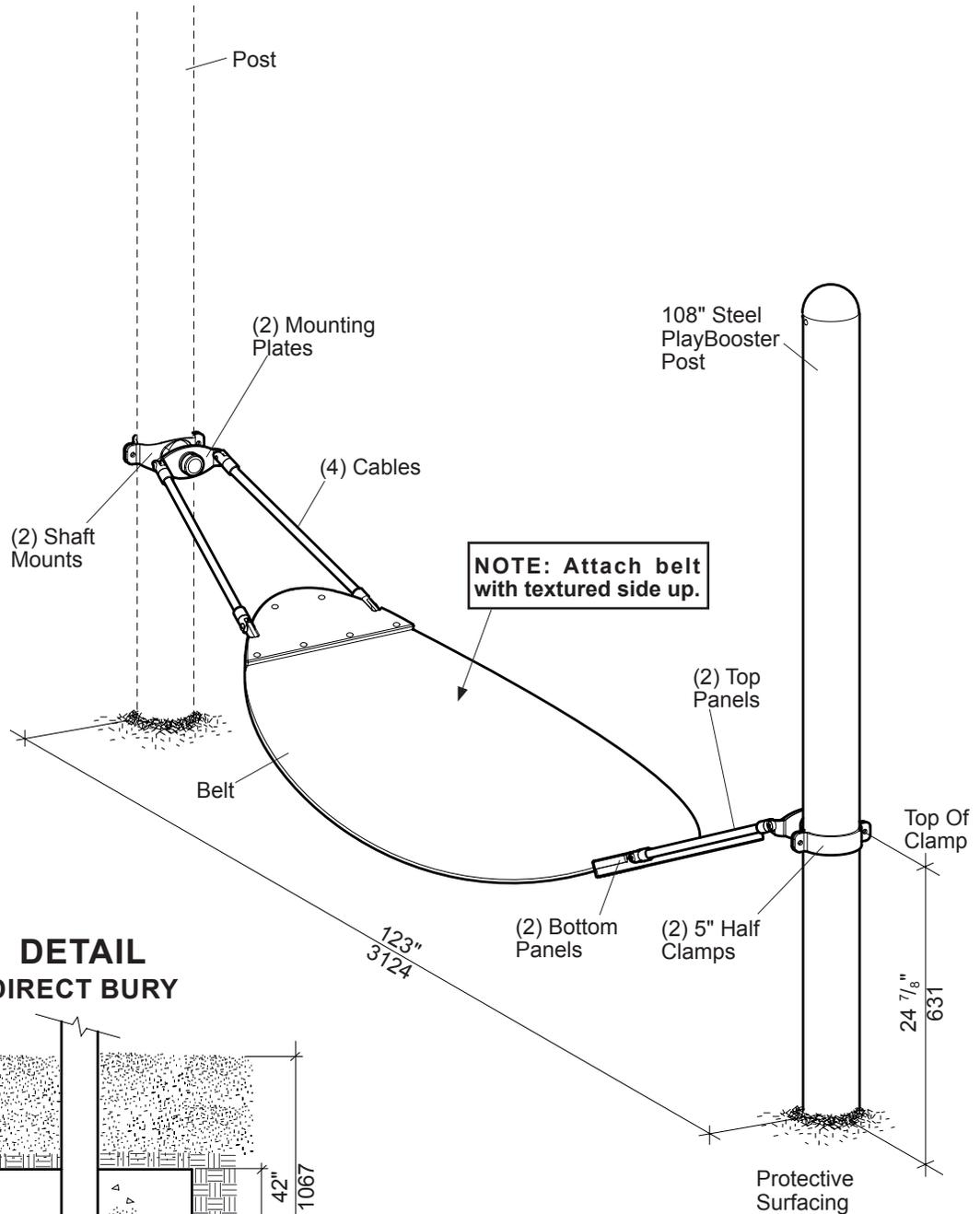
Part#	Description	Qty.
100610	1/4" x 5/8" Drive Rivet, AL/SST	2
105327	5" Half Clamp, Specify Color	2
160567	5/8" x 9 7/8" Tapered Shaft	1
153101	Stub, Specify Color	1
153972	Handhold Assembly	2
152231	Handhold, Black	2
153577	Handle Crank Weldment, Specify Color	2
153714	Retaining Ring	2
160570	Stationary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

Specifications

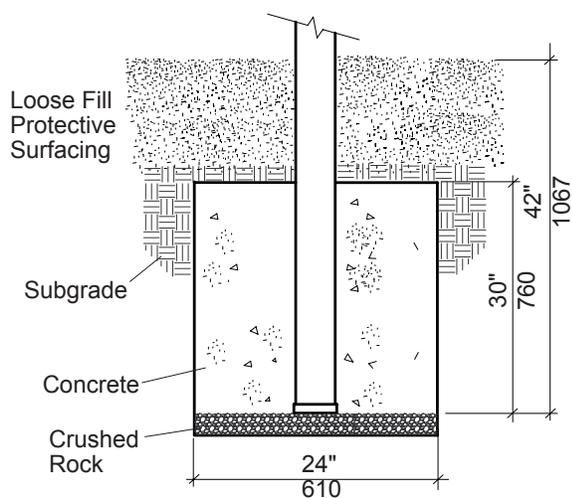
Handhold:	Handhold fabricated from high density polyethylene, black in color.
Handhold Crank:	Weldment comprised of 3/4" O.D. stainless steel shaft and forged carbon steel.
Stub:	Weldment comprised of 5.000" O.D. x 11 Ga. (.120") steel tube, 1/4" x 6" HRPO flat steel and 1.063" O.D. 1018 steel shaft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

Installation Instructions

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



**DETAIL
DIRECT BURY**



Parts List

Part#	Description	Qty.
100610	1/4" x 5/8" Drive Rivet, AL/SST	2
105327	5" Half Clamp, Specify Color	2
140619	108" Steel Post w/Cap, 42" DB, Specify Color	1
194220	Belt, Specify Color	1
194377	Belt Plate, Specify Color	2
194378	Top Panel, Specify Color	2
194379	Bottom Panel, Specify Color	2
198514	Mounting Plate, Specify Color	2
194381	Shaft Mount, Specify Color	2
195244	25" Cable, Black	4
196831	Presser Plate, Specify Color	2
212797	Boogie Board Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
113027	3/8" x 1 3/8" BHCS w/Pin, SST	12
100290	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	8
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	12
121135	1/4" O.D. x 2" Long Spring Pin, SST	2
127179	5/8" O.D. x 3/8" Bushing, SST	8
128296	3/8" Jam Nut, SST	4
120302	Collar, SST	2
149200	Thrust Bearing	2

Specifications

Post: See PlayBooster® (PB) General Specifications.

Mounting Plate: Weldment comprised or 3/8" (9,53 mm) thick HRPO sheet steel, and 2" (50,8 mm) O.D. x 1.50" (38,1 mm) I.D. stainless steel housing. Finish: ProShield®, color specified. (Oilite Bronze Bearing) 1.500" (38,1 mm) O.D. x 1.257" (31,92 mm) I.D.

Shaft Mount: Weldment comprised of 1/4" (6,35 mm) thick HRPO flat steel and 1" (25 mm) diameter stainless steel shaft. Finish: ProShield®, color specified.

Belt Plate: Weldment comprised or 3/8" (9,53 mm) thick HRPO sheet steel and 1/4" (6,35 mm) thick HRPO sheet steel. Finish: ProShield®, color specified.

Presser Plate: Fabricated from 7 GA. (.179") (4,54 mm) thick HRPO sheet steel. Finish: ProShield®, color specified.

Cable Assembly: **(Cable)** Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core. **(Cable Connectors)** 6063-T6 aluminum.

Panels: Permalene®, color specified.

Belt: .315" (8,00 mm) Thick mini rough top rubber belting with polyester fabric plys, black in color.

Clamps: Cast Aluminum. Finish: ProShield®, color specified.

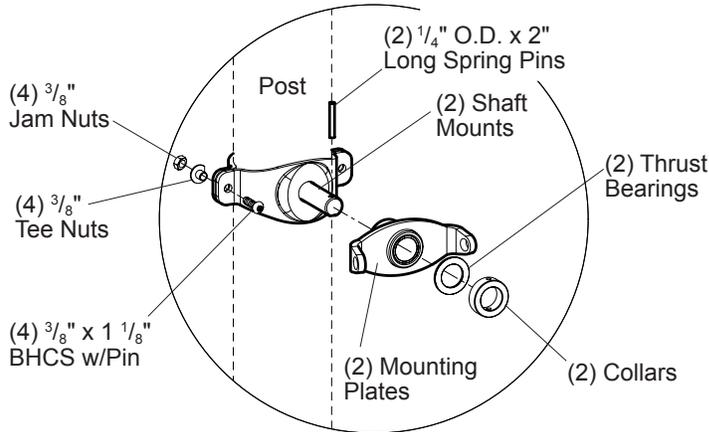
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 3 man hours
Weight: 110 lbs.
Concrete: Approx. 7.85 cu. ft.
Fall Height: 24" (0,61 m)

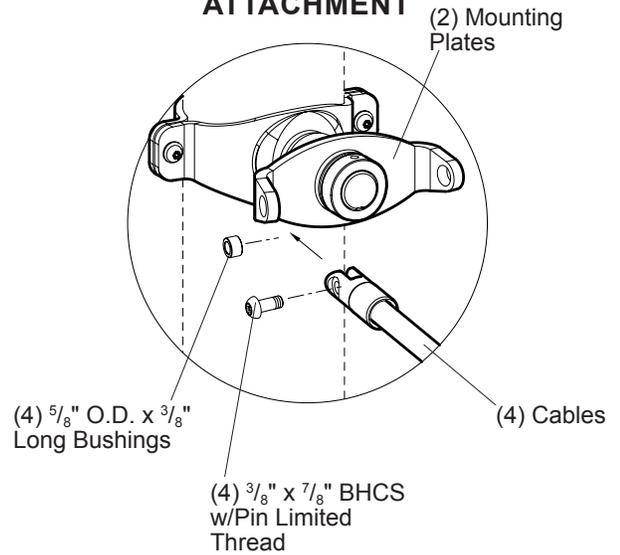
Installation Instructions

- 1) **(Direct Bury)** Dig footings to dimensions shown.
- 2) Attach shaft mounts to posts at height shown. Refer to the Shaft Mount Assembly Detail.
- 3) Slide mounting plate, thrust bearing, and collar onto shaft mount shaft. Line up hole in collar with hole in shaft. Tap 1/4" O.D. x 2" long spring pin through collar and shaft. Refer to the Shaft Mount Assembly Detail.
- 4) Attach belt plates, presser plates and panels to belt. Refer to the Belt Plate Attachment Detail.
- 5) Insert 5/8" O.D. x 3/8" long bushings into belt plate tabs. Attach cables to belt plate tabs. Refer to the Boogie Board Attachment Detail.
- 6) Insert 5/8" O.D. x 3/8" long bushings into mounting plate holes. Attach cables to mounting plates. Refer to the Cable Attachment Detail.
- 7) With post plumb, pour concrete footing. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.
- 8) Install 1/4" x 5/8" drive rivets in 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a 1/4" or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 9) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
SHAFT MOUNT ASSEMBLY**

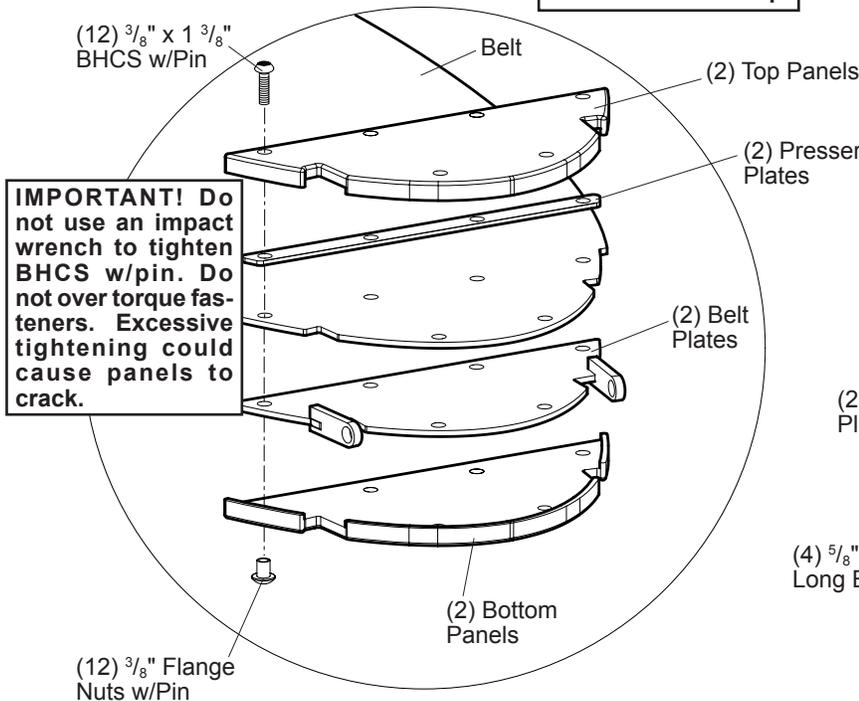


**DETAIL
CABLE ATTACHMENT**



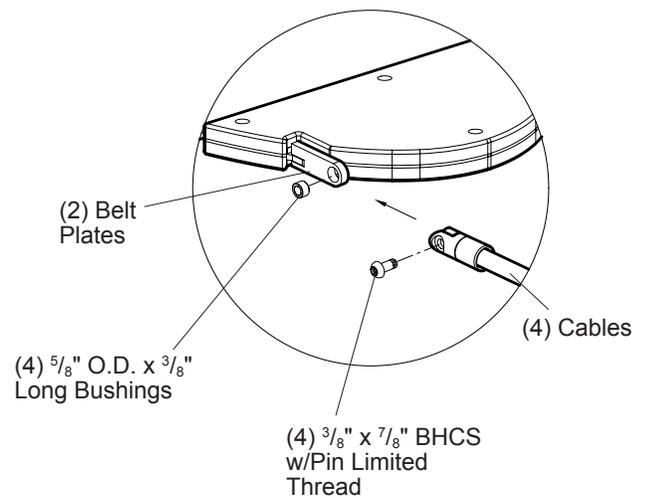
**DETAIL
BELT PLATE ATTACHMENT**

NOTE: Attach belt with textured side up.

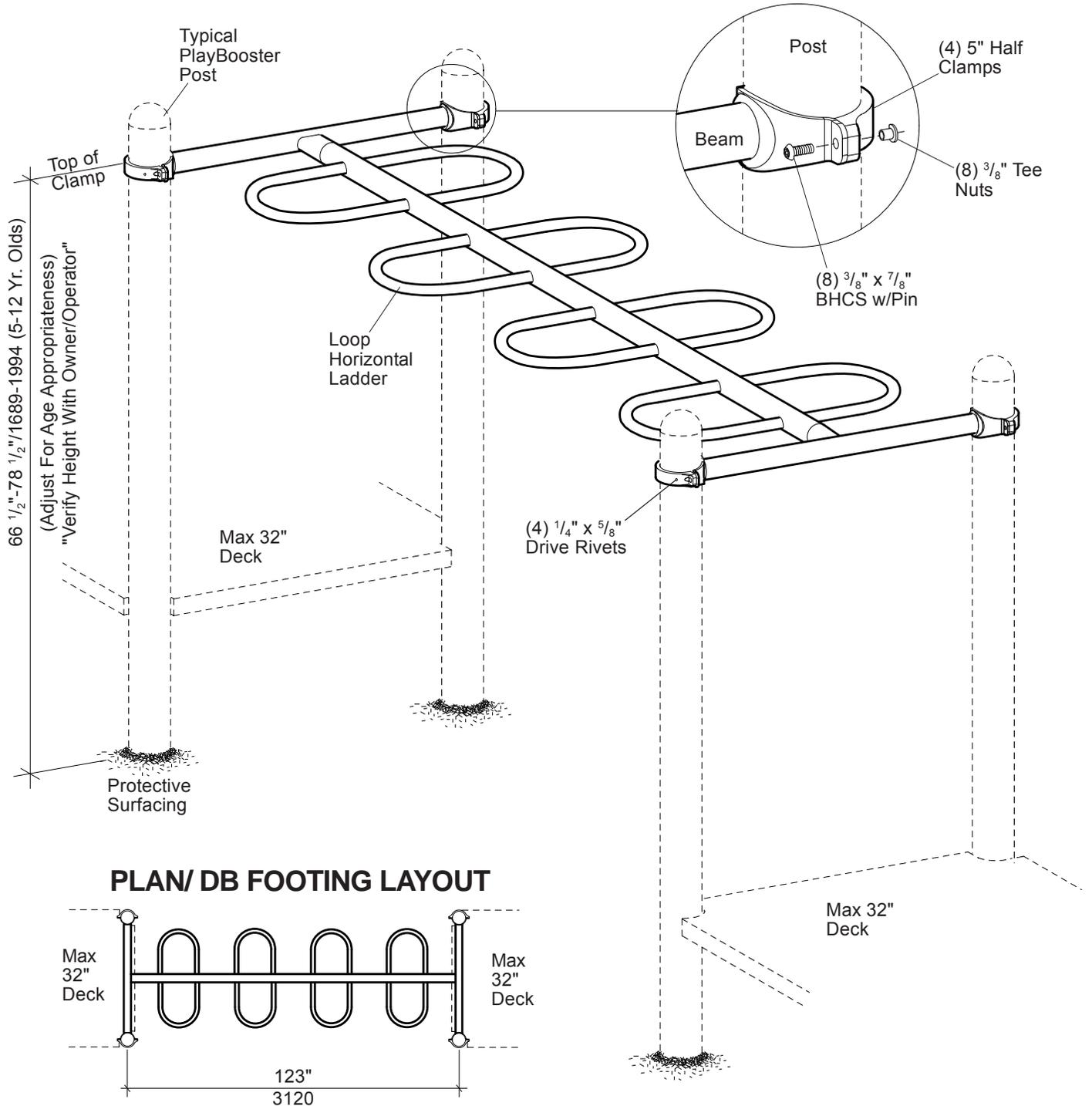


IMPORTANT! Do not use an impact wrench to tighten BHCS w/pin. Do not over torque fasteners. Excessive tightening could cause panels to crack.

**DETAIL
BOOGIE BOARD ATTACHMENT**



**DETAIL
BEAM ATTACHMENT**



PlayBooster® 119806 Horizontal Ladder, Loop, Single Beam 123"



PlayBooster® 119806 Horizontal Ladder, Loop, Single Beam 123"

Parts List

Part#	Description	Qty.
145937	Loop Horizontal Ladder, Specify Color	1
105327	5" Half Clamp, Specify Color	4
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
149233	Horizontal Ladder, Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	8
100351	3/8" Tee Nut, SST	8

Specifications

Loop Ladder: Weldment comprised of 2.875" O.D. RS40 (.160" - .170") galvanized steel tubing, 2.375" O.D. RS40 (.130"-.140") galvanized steel tubing, 1.315 O.D. RS20 (.080"-.090") galvanized steel tubing and 1/4" HRPO flat steel. 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. 1 man hour

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

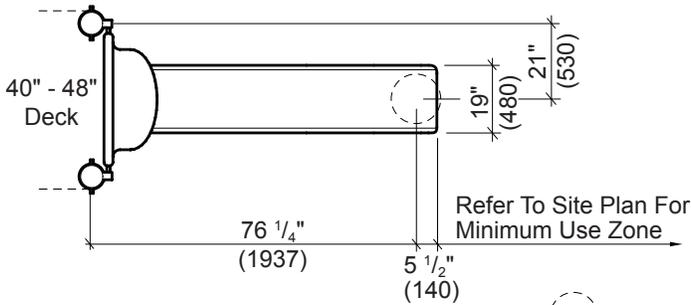
Weight: 117 lbs.

Max. Fall Height: 67"-79" (1,70 m - 2,01 m) 5-12 Yr. Olds.

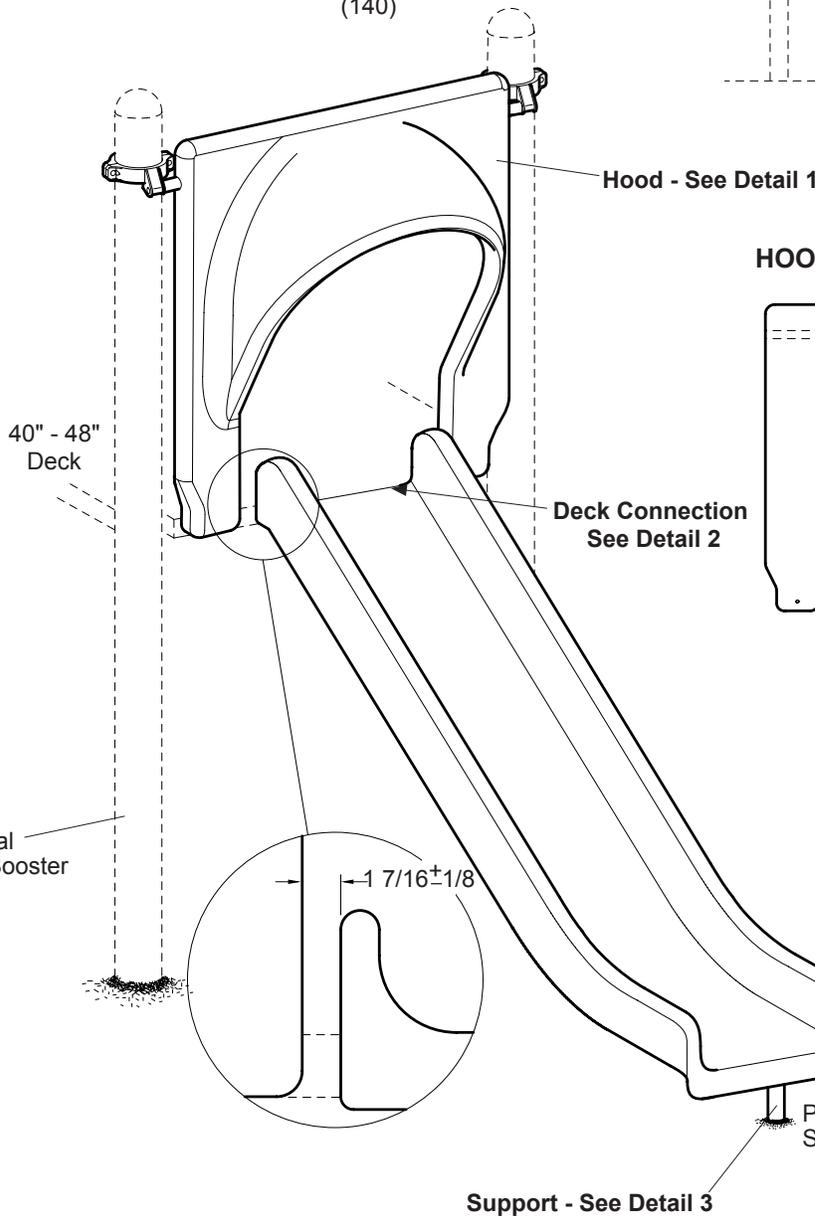
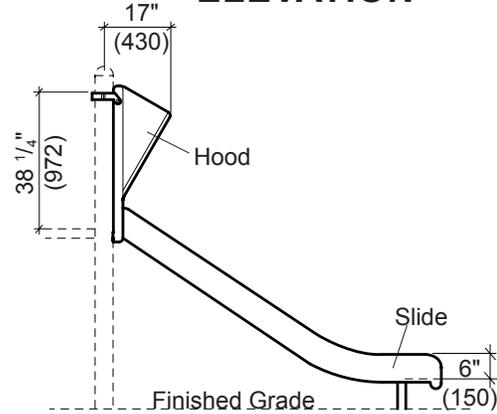
Installation Instructions

- 1) Mark posts for the appropriate height of the loop horizontal ladder. Adjust height for age appropriateness.
- 2) Lift loop horizontal ladder into position and attach to posts using 5" half clamps with 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts.
- 3) Be sure loop horizontal ladder is level, if not, adjust clamps to do so.
- 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.

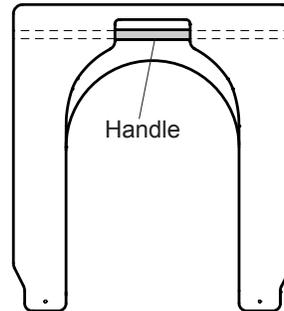
PLAN VIEW/ FOOTING LAYOUT



ELEVATION



HOOD - HANDLE DETAIL



PlayBooster® 123337 Single Slide, 40"- 48"



PlayBooster® 123337 Single Slide, 40" - 48"

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.

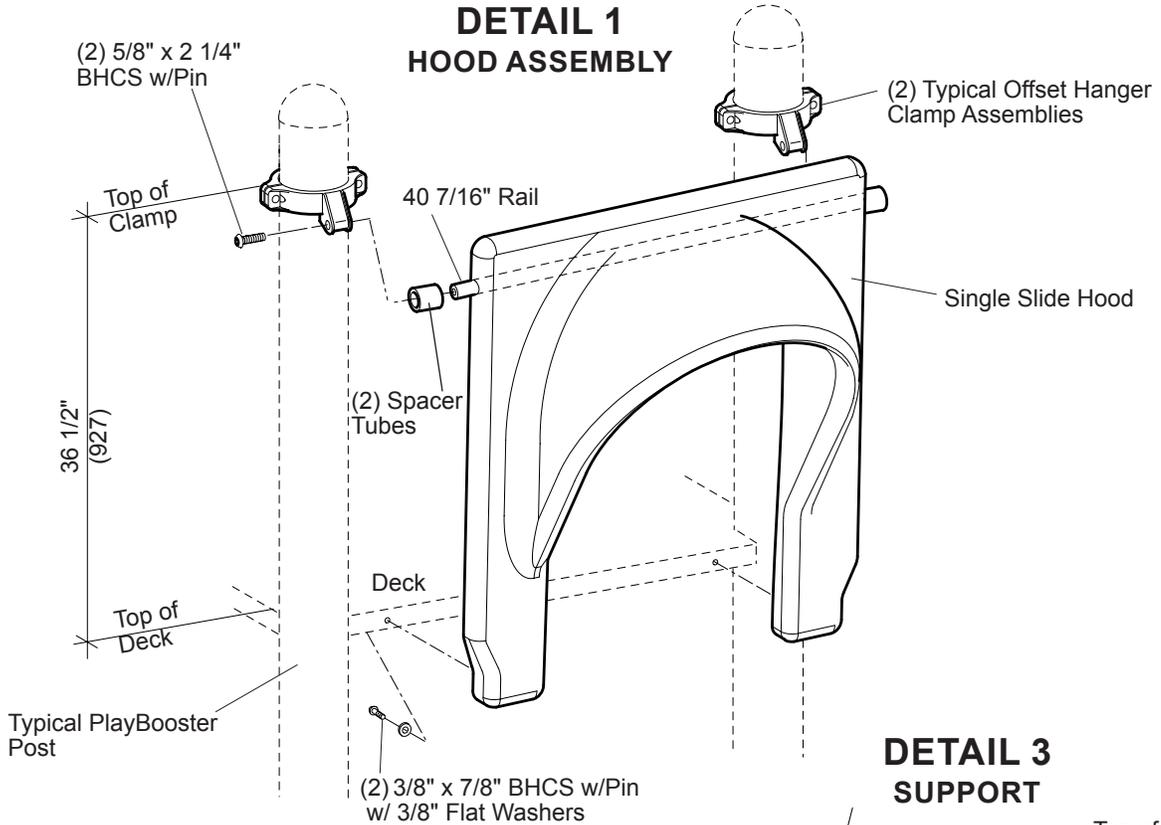
Area Req.: Refer To Plan View

Weight: 93 lbs.

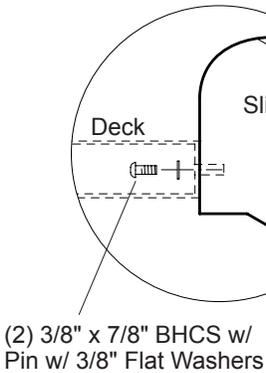
Fall Height: Deck Height

Installation Instructions

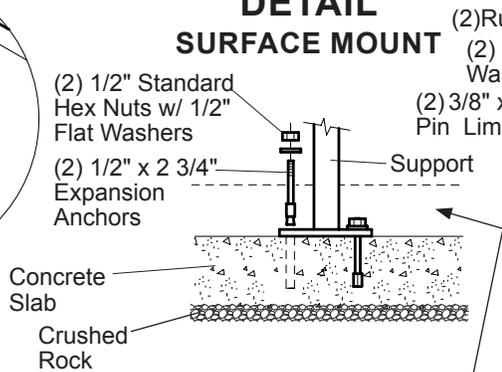
- (Direct Bury)** Dig footings spaced as shown.
- Insert 40 7/16" rail through top of hood, place spacer tubes over each end of the 40 7/16" rail. Attach offset hanger clamps to ends of pipe bolt using 5/8" x 2 1/4" BHCS w/Pin. Position hood against face of deck with offset hanger clamps against posts. 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.
- 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.
- 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.
- (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.
- Install protective surfacing before users are allowed to play on the structure.



DETAIL 2 DECK CONNECTION



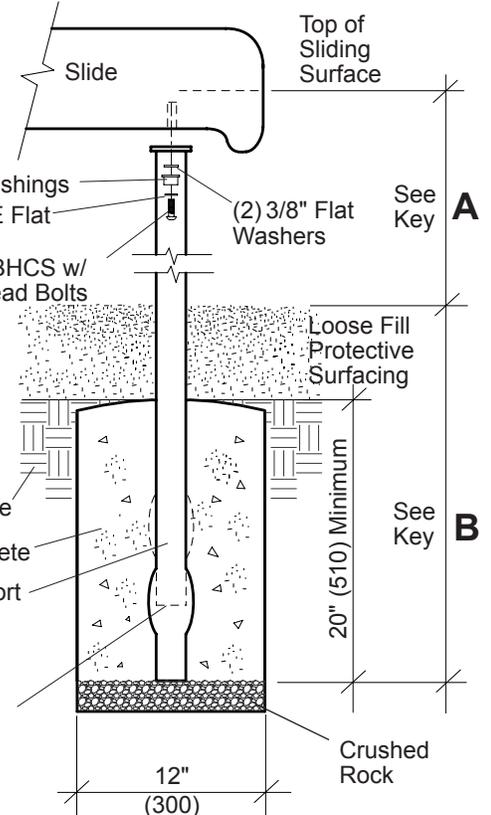
DETAIL SURFACE MOUNT



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

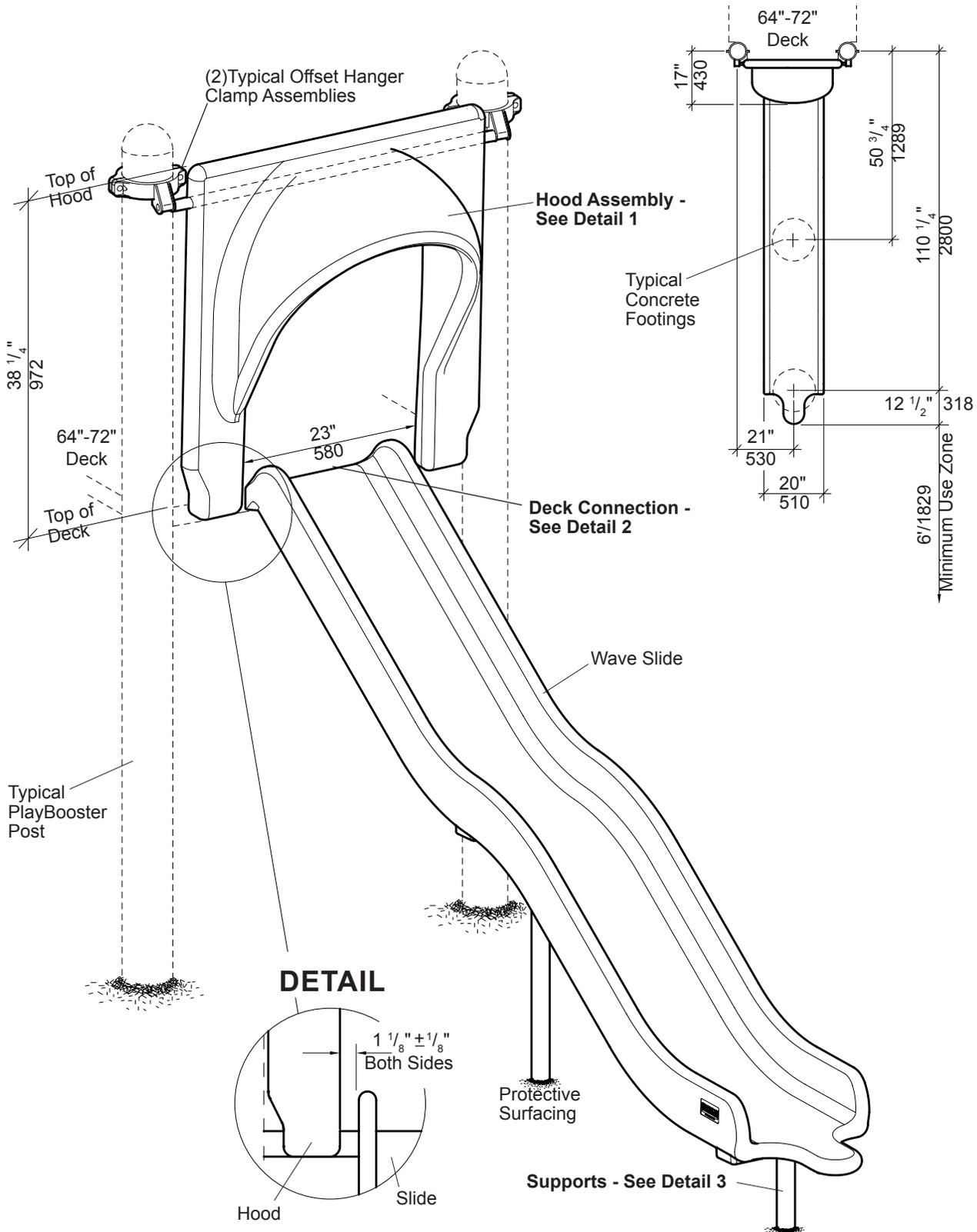
Bottom Of Support When Attaching Slide To A 48" Deck

DETAIL 3 SUPPORT

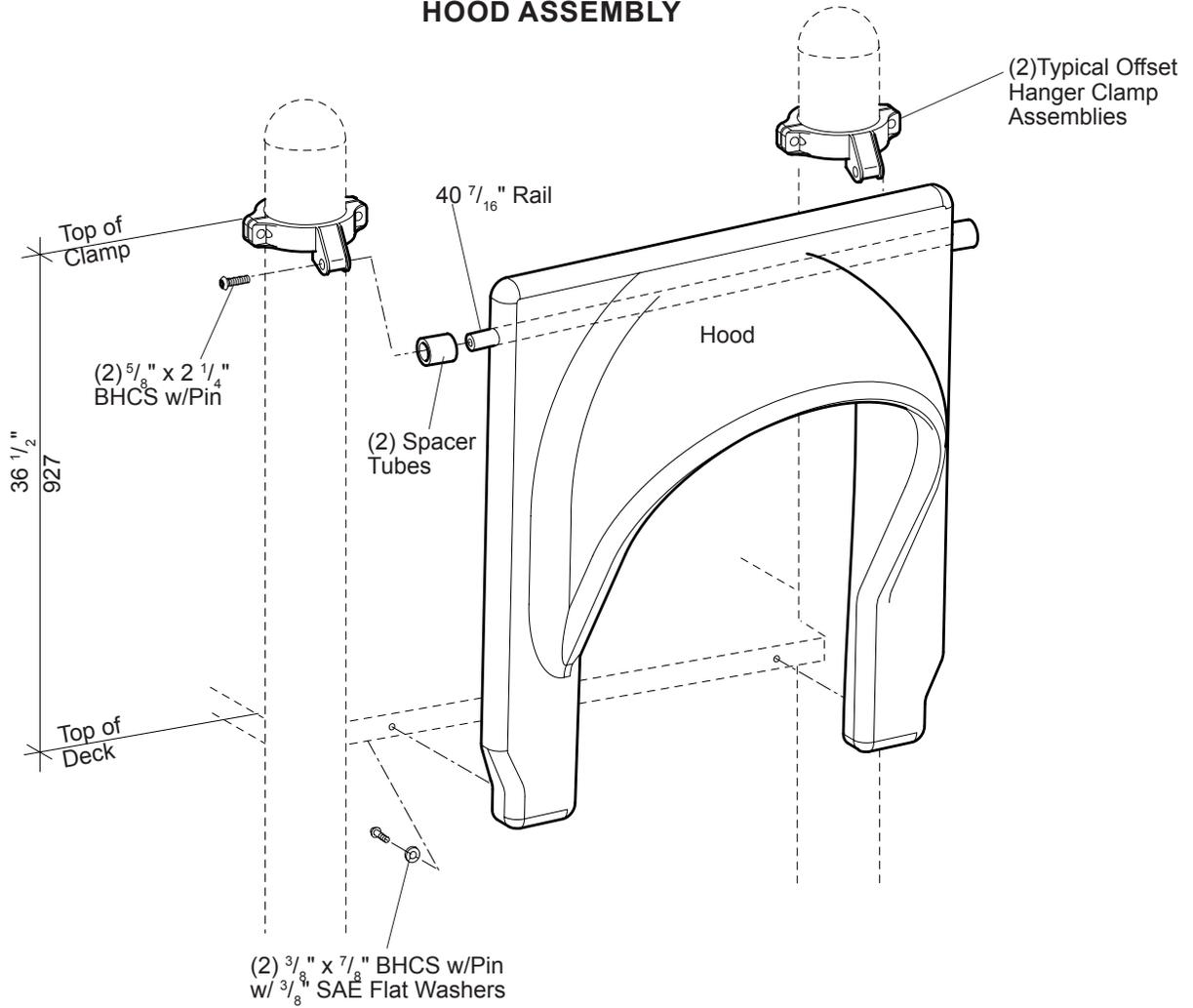


KEY:	
Deck Hgt.	Dimension
40"	A = 8" (200)
48"	A = 11" (280)
40"	B = 37" (940)
48"	B = 34" (860)

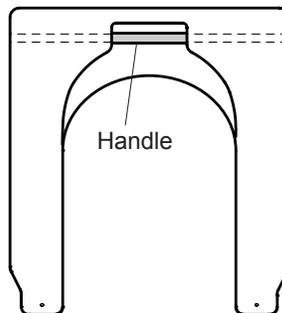
PLAN VIEW/ FOOTING LAYOUT



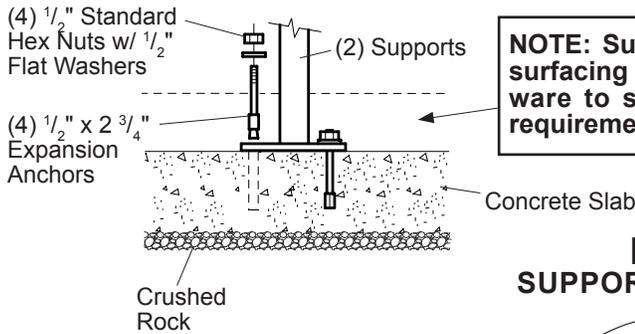
**DETAIL 1
 HOOD ASSEMBLY**



HOOD - HANDLE DETAIL

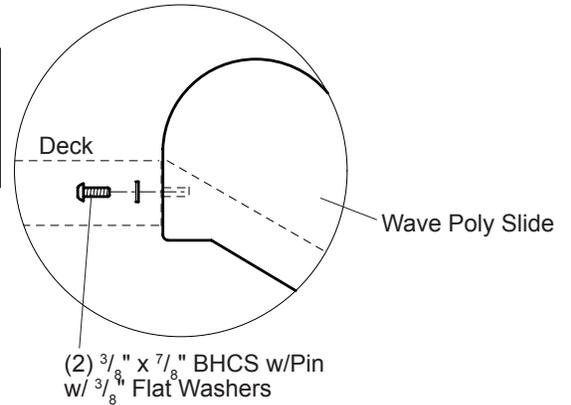


**DETAIL
 SURFACE MOUNT**

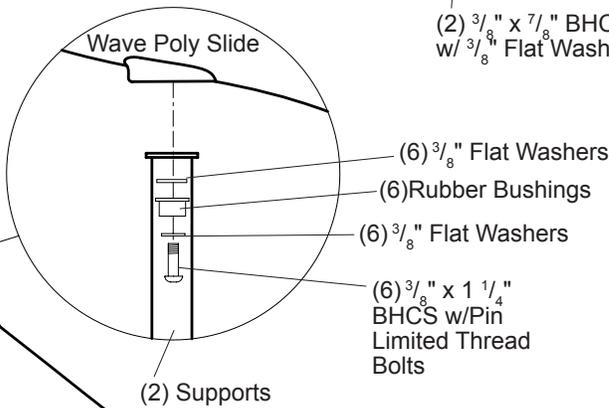


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

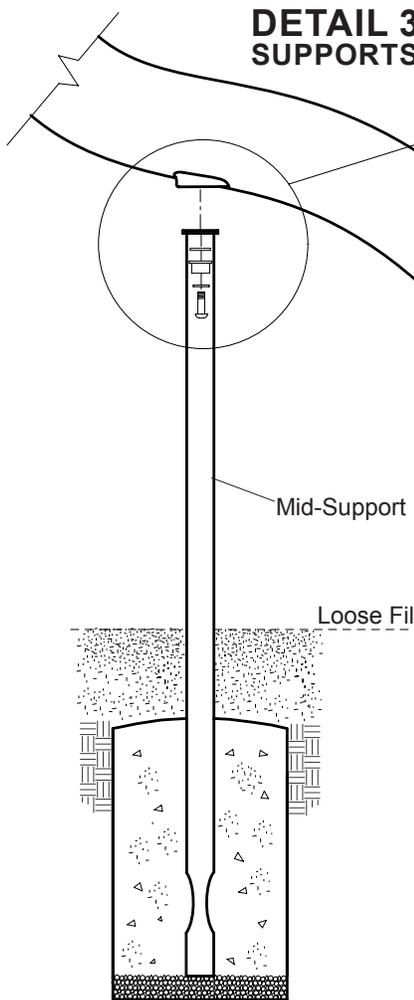
**DETAIL 2
 DECK CONNECTION**



**DETAIL
 SUPPORT ATTACHMENT**



**DETAIL 3
 SUPPORTS**



Wave Slide

Top of Sliding Surface

64" Deck 8"/200
 72" Deck 14"/360

20" Minimum
 510
 64" Deck 39"/990
 72" Deck 33"/840

12"
 300

Parts List

Part#	Description	Qty.
130612	Wave Slide, Specify Color	1
134180	Slide Hood, Specify Color.....	1
103201	Exit Support, (DB), Specify Color	1
130691	Mid-Support, (DB), Specify Color.....	1
131653	Exit Support, 64" Deck (SM), Specify Color.....	1
103198	Exit Support, 72" Deck (SM), Specify Color.....	1
131655	Mid-Support, 64" Deck (SM), Specify Color.....	1
131651	Mid-Support, 72" Deck (SM), 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
131672	Slide Hardware Package	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread Bolt, SST.....	6
111442	Rubber Bushing.....	6
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100362	3/8" Flat Washer, SST	14
106578	Hood Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100362	3/8" Flat Washer, SST	2
100203	5/8" x 2 1/4" BHCS w/Pin, SST	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100351	3/8" Tee Nut, SST.....	4
100610	1/4" x 5/8" Drive Rivet, AL/SST.....	2
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

Specifications

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

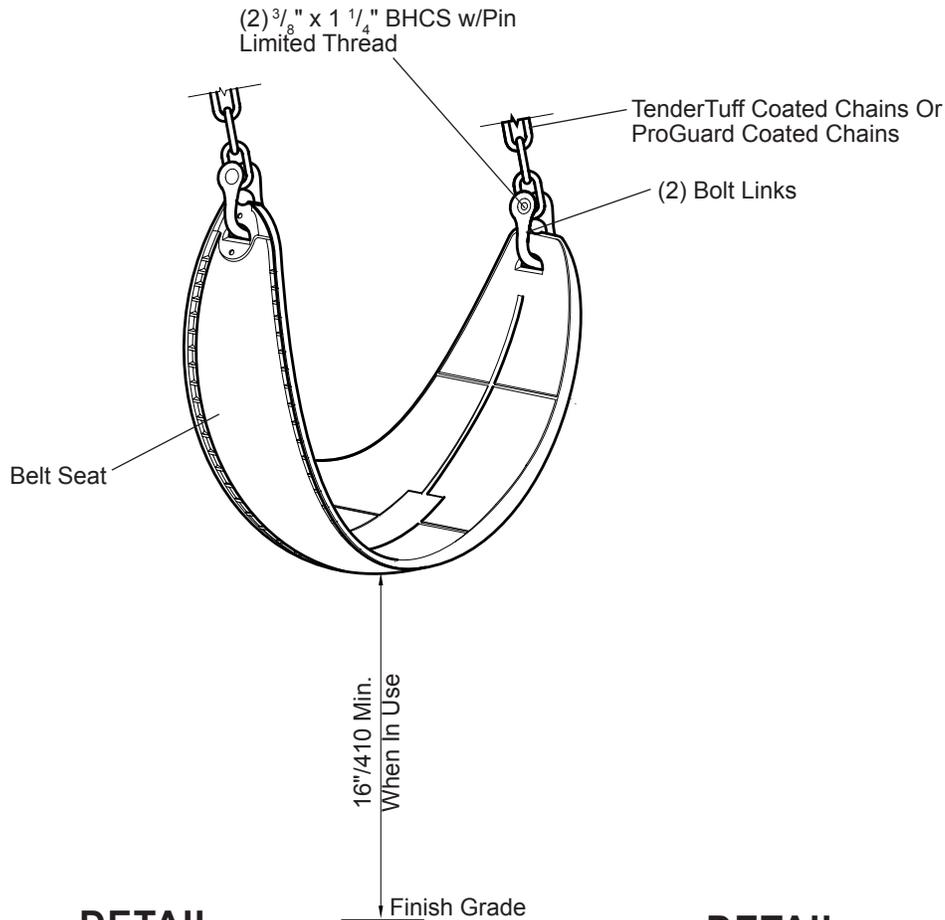
Installation Time:	Approx. 3 man hours
Concrete Req.:	Approx. 2.6 cu. ft.
Area Req.:	6' (1,83 m) minimum use zone at exit
Weight:	121 lbs.
Fall Height:	64" Deck (1,63 m) 72" Deck (1,83 m)

Installation Instructions

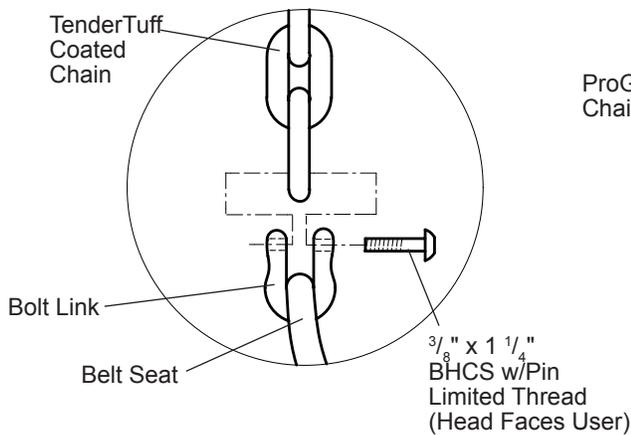
- (Direct Bury)** Dig footings spaced as shown.
- Insert 40 7/16" rail through hood, place spacer tubes over each end of the 40 7/16" rail, attach to offset hanger clamps as shown using 5/8" x 2 1/4" BHCS w/Pin. Position hood against face of deck and line up holes in hood and deck. Attach hood to deck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

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

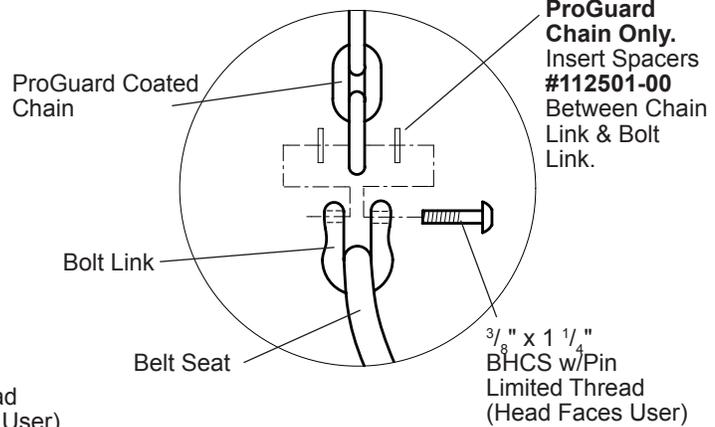
- Install protective surfacing before users are allowed to play on the structure.



DETAIL BOLT LINK



DETAIL BOLT LINK



Swings

174018 Belt Seat

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

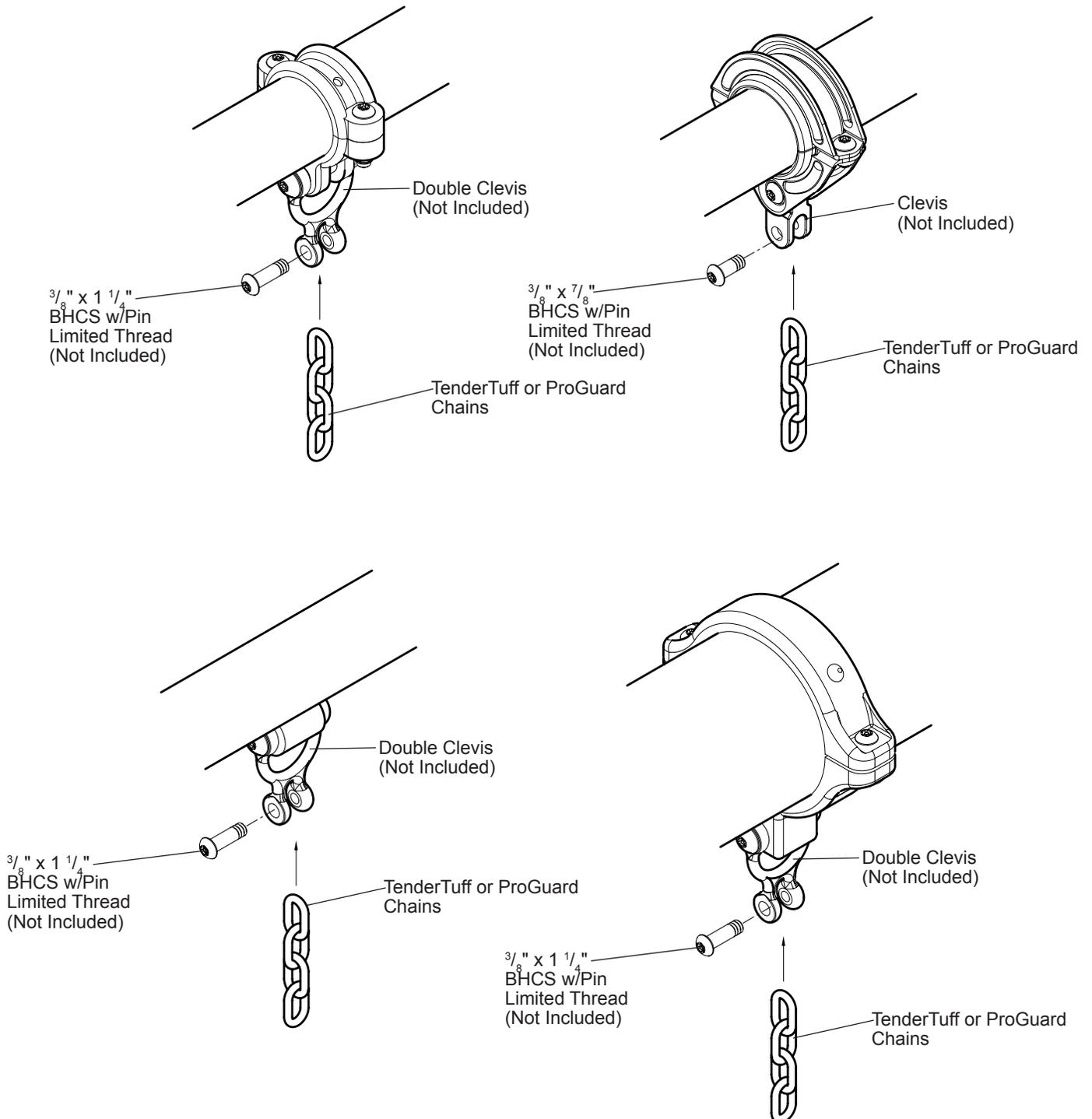
Swing Hangers With Double Clevis

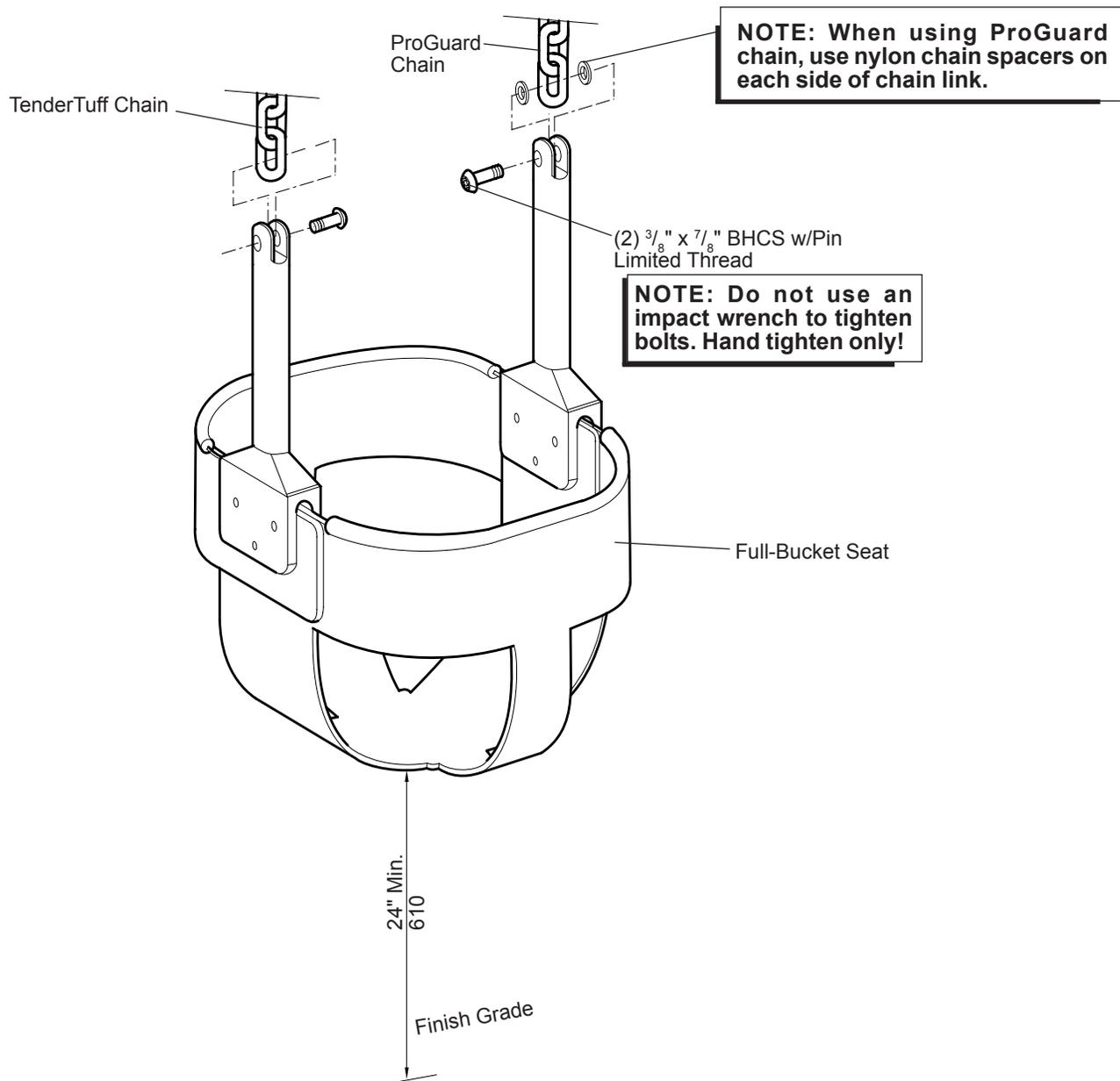
- 1) Attach chains to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install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



Swings 176038 Full-Bucket Seat, w/Chains

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

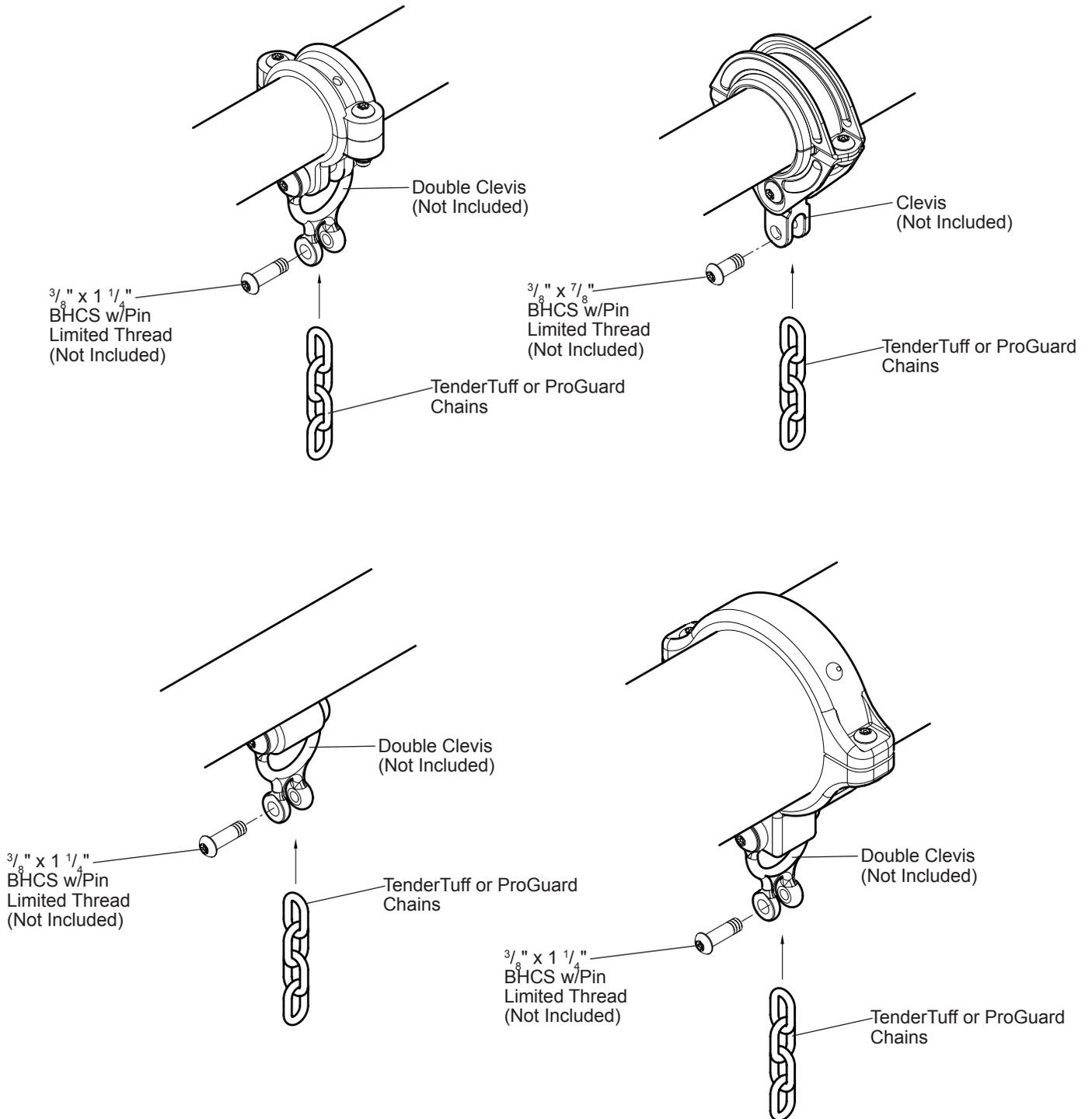
Swing Hangers with Double Clevis

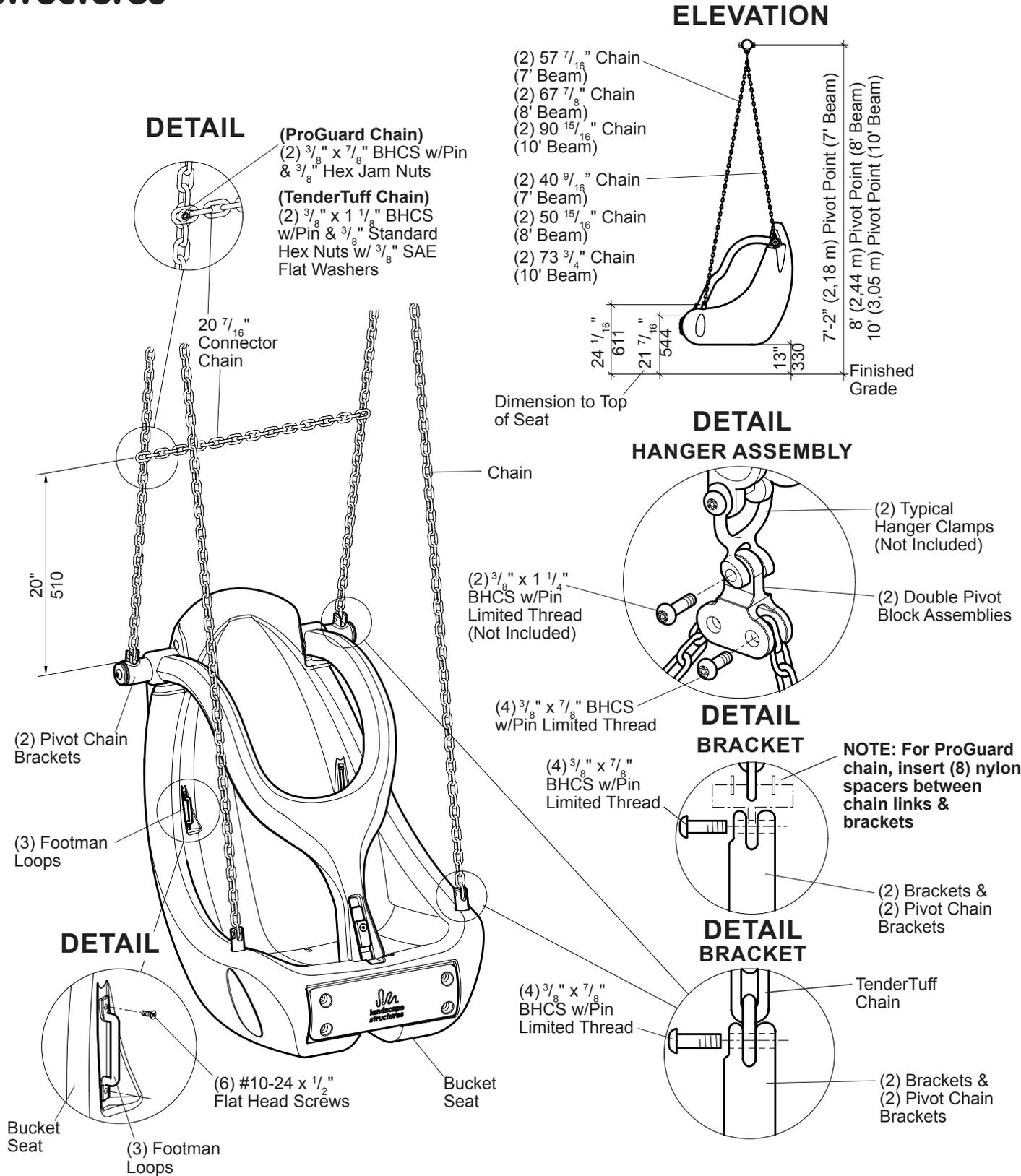
- 1) Attach chains to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread bolts, as shown.
- 2) Attach chains to full-bucket seat using 3/8" x 7/8" BHCS w/pin limited thread bolts. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install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





Swings **177351 Molded Bucket Seat, w/Harness**



Swings 177351 Molded Bucket Seat, w/Harness

Parts List

Part#	Description	Qty.
182025	Molded Bucket Seat Assembly, Specify Color.....	1
7 Ft. High Beam - ProGuard Finished Chains		
178679	57 7/16" Long, (Front).....	2
193869	49 9/16" Long, (Back).....	2
175653	20 7/16" Long, (Connector).....	1
8 Ft. High Beam - ProGuard Finished Chains		
174404	67 7/8" Long, (Front).....	2
175619	50 15/16" Long, (Back).....	2
175653	20 7/16" Long, (Connector).....	1
10 Ft. High Beam - ProGuard Finished Chains		
174884	90 11/16" Long, (Front).....	2
175623	73 3/4" Long, (Back).....	2
175653	20 7/16" Long, (Connector).....	1
7 Ft. High Beam - TenderTuff Chains		
178679	57 7/16" Long, (Front), Specify Color.....	2
179286	40 9/16" Long, (Back), Specify Color.....	2
174571	20 7/16" Long, (Connector), Specify Color.....	1
8 Ft. High Beam - TenderTuff Chains		
152050	67 7/8" Long, (Front), Specify Color.....	2
174572	50 15/16" Long, (Back), Specify Color.....	2
174571	20 7/16" Long, (Connector), Specify Color.....	1
10 Ft. High Beam -TenderTuff Chains		
152052	90 11/16" Long, (Front), Specify Color.....	2
175621	73 3/4" Long, (Back), Specify Color.....	2
174571	20 7/16" Long, (Connector), Specify Color.....	1
225662	Molded Seat w/Yoke 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.....	2
100290	3/8" x 7/8" BHCS w/Pin Limited Thread, SST.....	8
100327	3/8" Standard Hex Nut, SST.....	2
100365	3/8" SAE Flat Washer, SST.....	6
106035	Seat Mounting Bracket.....	2
112501	Nylon Spacer.....	8
128296	3/8" Hex Jam Nut, SST.....	2
207709	Footman Loop, SST.....	3
160307	Double Pivot Block Assy.....	2
162462	#10-24 x 1/2" Flat Head Screw, SST.....	6

Specifications

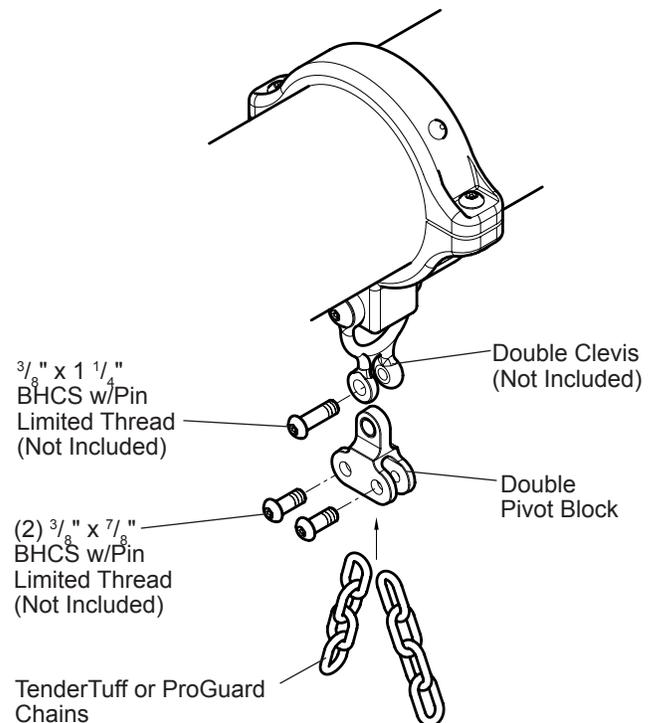
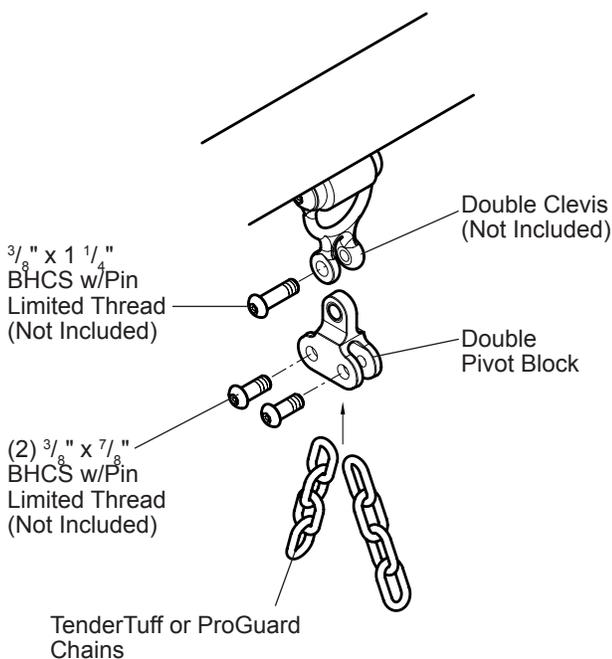
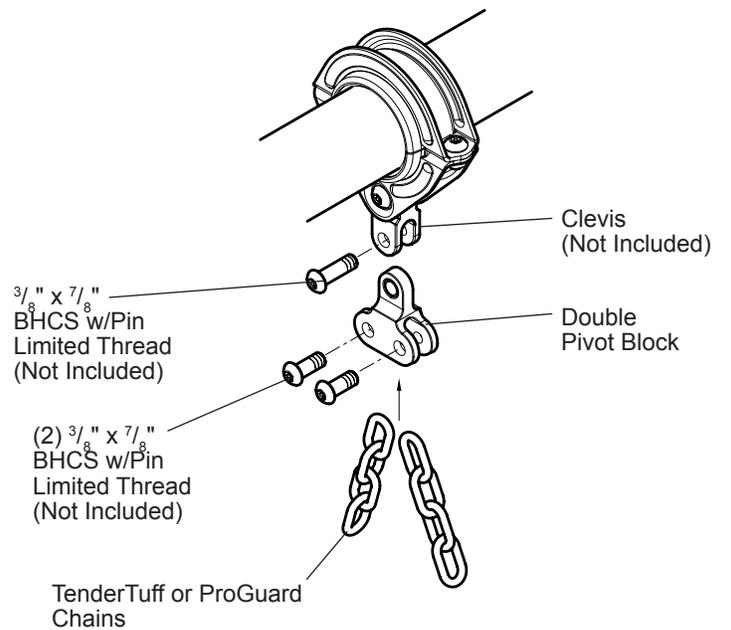
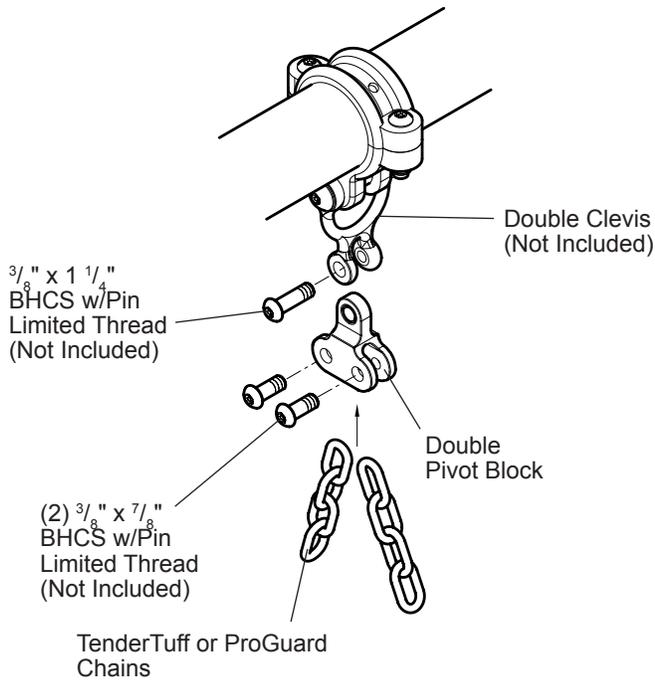
- Bucket Seat Assy:** (Bucket Seat & Yoke) Rotationally molded from U.V. stabilized linear low density polyethylene, color specified. (Pipebolt) Made from 1.125" O.D. 6005-T5 threaded anodized aluminum tube. (Bearings) UHMW PE lubricated. (Brackets) Made from 356-T6 aluminum.
- Chain/ProGuard:** Steel 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.

- Seat Mounting Bracket:** Cast from 535 aluminum magnesium.
- Bumper:** Molded from U.V. stabilized black EPDM rubber encapsulating 11 GA (.120") HRPO steel sheet.
- Dbl. Pivot Block:** Fabricated from 6061-T6 Aluminum with bronze oil impregnated bearing.
- 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:** 50 lbs. (7 Ft. Beam w/ProGuard Chains)
53 lbs. (7 Ft. Beam w/TenderTuff Chains)
48 lbs. (8 Ft. Beam w/ProGuard Chains)
51 lbs. (8 Ft. Beam w/TenderTuff Chains)
51 lbs. (10 Ft. Beam w/ProGuard Chains)
55 lbs. (10 Ft. Beam w/TenderTuff Chains)

Installation Instructions

- 1) Insert seat mounting brackets into molded-in holes in front of bucket seat and attach ends of chain, using 3/8" x 7/8" BHCS w/pin limited thread. See Bracket Detail. **NOTE:** For ProGuard coated chain, insert (4) nylon spacers between chain links and brackets.
- 2) Attach ends of chain to pivot chain brackets, using 3/8" x 7/8" BHCS w/pin limited thread. See Bracket Detail. **NOTE:** For ProGuard coated chain, insert (4) nylon spacers between chain links and brackets.
- 3) Attach chains to double pivot blocks, using 3/8" x 7/8" BHCS w/pin limited thread.
- 4) **(Swing Hangers with Double Clevis)** Attach chains to swing hanger double clevis, using 3/8" x 1 1/4" BHCS w/pin limited thread.
(Anti-wrap Swing Hangers) Attach chains to anti-wrap swing hanger clevis, using 3/8" x 7/8" BHCS w/pin limited thread.
- 5) **(ProGuard Chain)** Attach connector chain to back swing chains at dimension shown, using 3/8" x 7/8" BHCS w/pin & 3/8" jam nuts. Refer to Detail.
(TenderTuff Chain) Attach connector chain to back swing chains at dimension shown, using 3/8" x 1 1/8" BHCS w/pin & 3/8" standard hex nuts with 3/8" SAE Flat Washers. Refer to Detail.
- 6) Attach footman loops, using #10-24 x 1/2" flat head screws, as shown. Footman loops are used for seat belts (not included).
- 7) Attach bumper to front of swing seat, using 3/8" x 7/8" BHCS w/pin with 3/8" SAE Flat Washers.
- 8) Install protective surfacing before users are allowed to play on the structure.

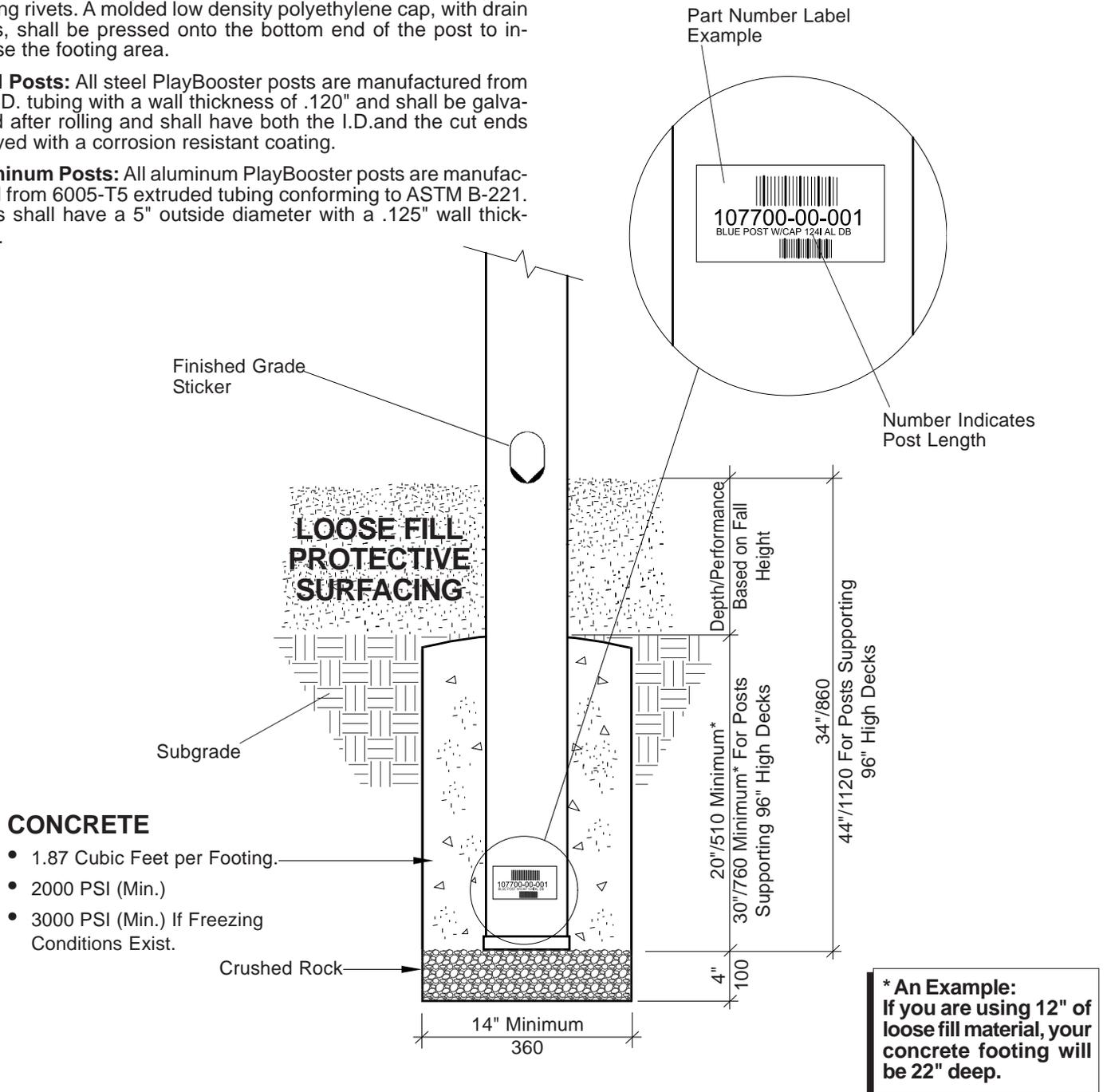
SWING HANGER OPTIONS



Post Specifications: Post length shall vary depending upon the intended use and shall be a minimum of 42" above the deck height. All posts shall be powdercoated to specified color. All posts shall have a "finished grade marker" positioned on the post identifying the 34" bury line (or 44" bury line for posts for 96" decks) required for correct installation and the top of the loose fill protective surfacing. Top caps for posts shall be aluminum die cast from 369.1 alloy and powdercoated to match the post color. All caps shall be factory installed and secured in place with (3) self sealing rivets. A molded low density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the post to increase the footing area.

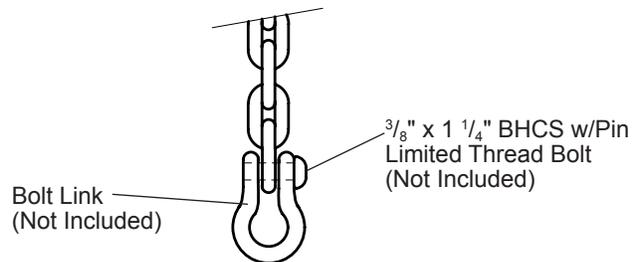
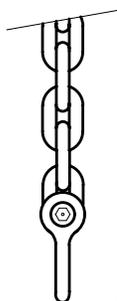
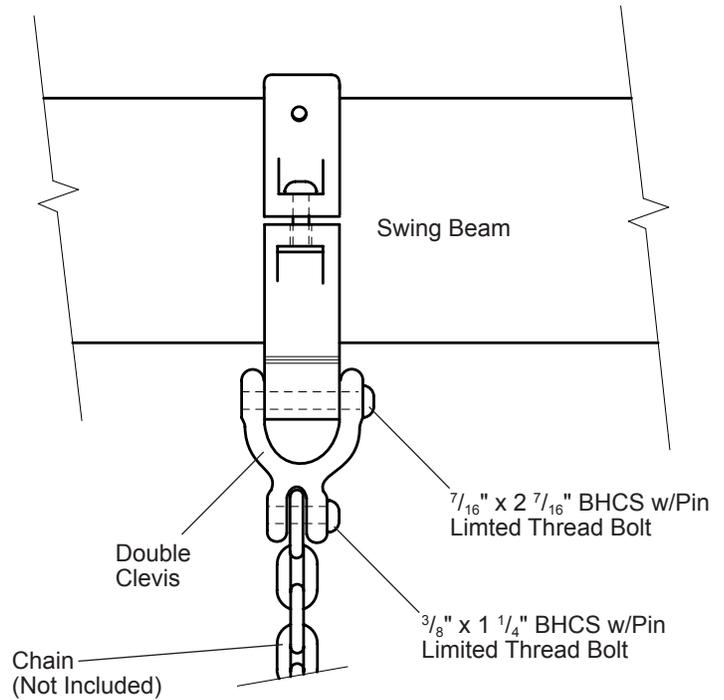
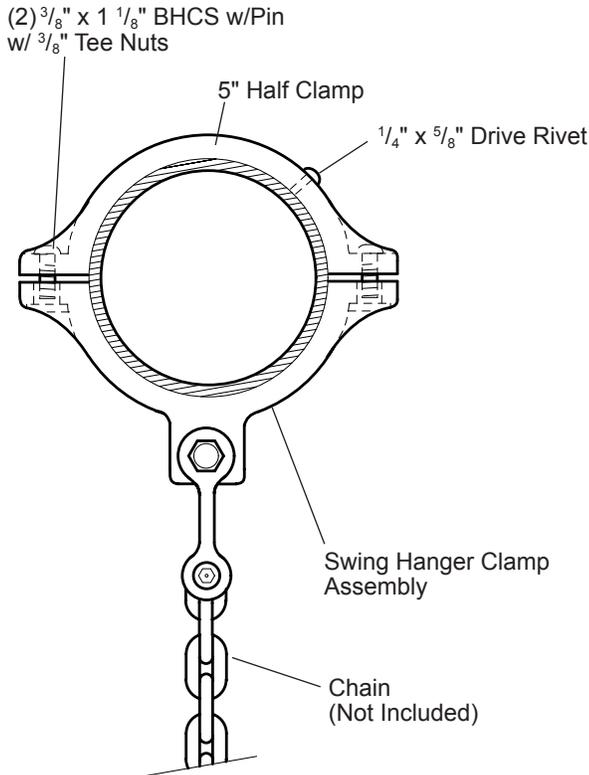
Steel Posts: All steel PlayBooster posts are manufactured from 5" O.D. tubing with a wall thickness of .120" and shall be galvanized after rolling and shall have both the I.D. and the cut ends sprayed with a corrosion resistant coating.

Aluminum Posts: All aluminum PlayBooster posts are manufactured from 6005-T5 extruded tubing conforming to ASTM B-221. Posts shall have a 5" outside diameter with a .125" wall thickness.



*** An Example:**
If you are using 12" of loose fill material, your concrete footing will be 22" deep.

PlayBooster® Concrete Footings, 5" Posts



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).

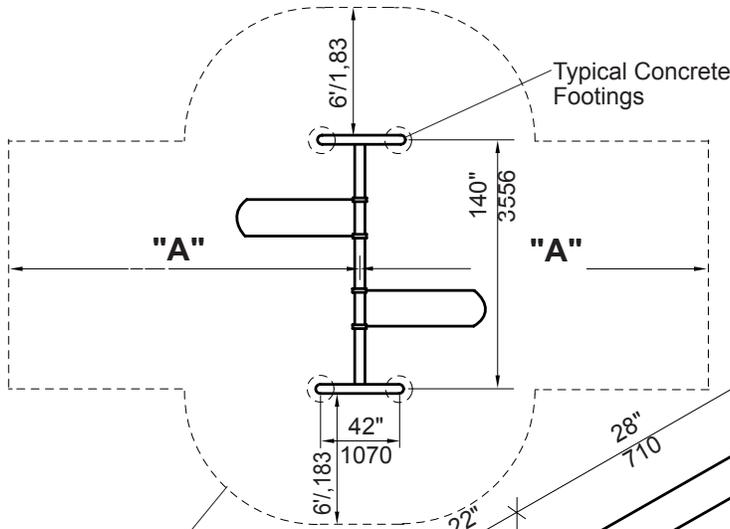
Installation Time: Approx. $\frac{1}{2}$ man hour

Weight: 6 lbs.

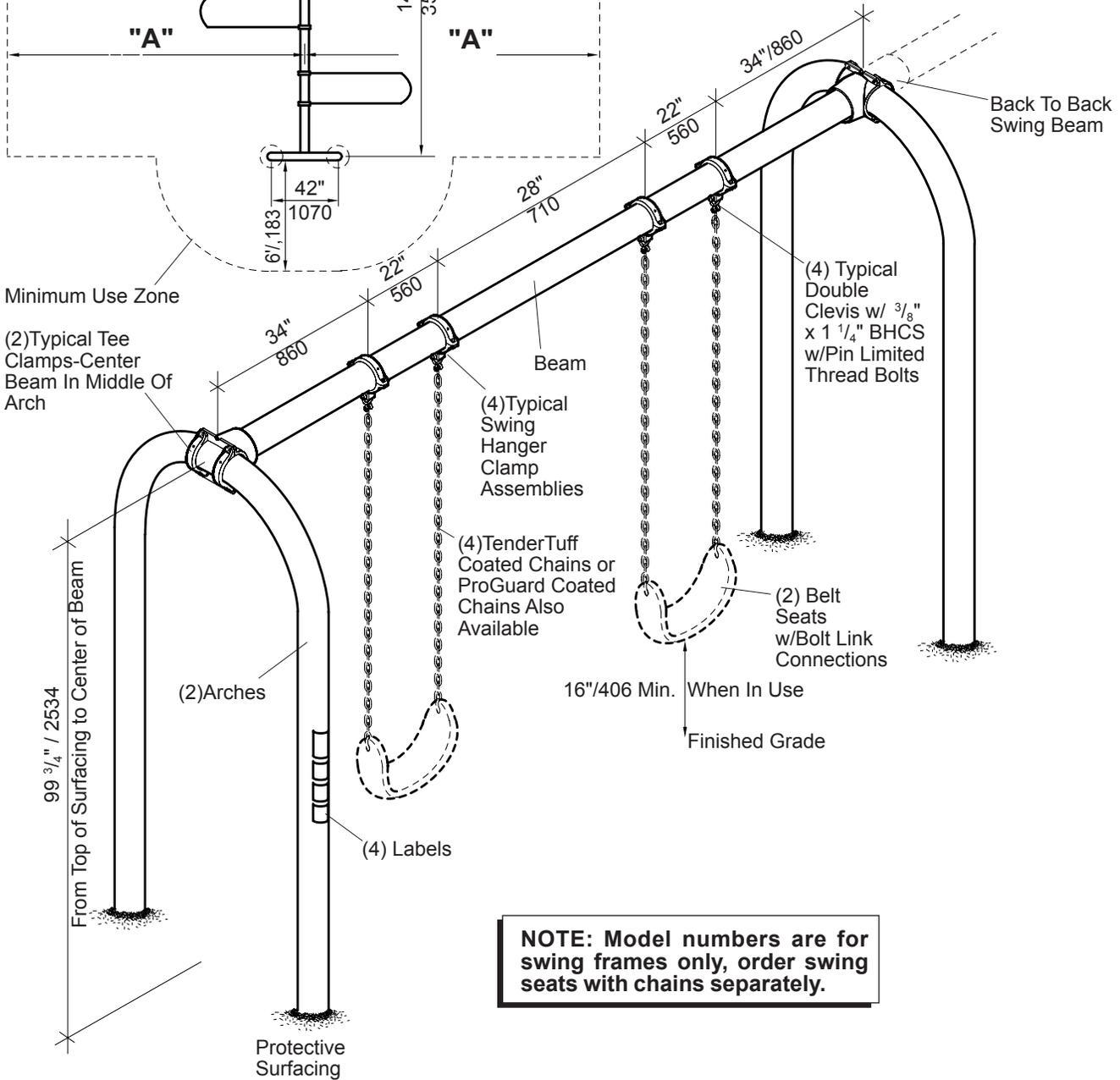
Installation Instructions

- 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



KEY	Dimension "A"
Seat Type	
Belt	16'-0" (4,88 m)
Flat	16'-0" (4,88 m)
Full Bucket	12'-0" (3,66 m)
Half Bucket	16'-0" (4,88 m)
Molded Bucket	16'-0" (4,88 m)
Molded Bucket/Harness	13'-0" (3,96 m)
Infant Full Bucket	N/A



NOTE: Model numbers are for swing frames only, order swing seats with chains separately.

Model #221293 Additional Bay

Swings 221292/221293 Arch Swing Frame



Swings 221292/221293 Arch Swing Frame

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
184227	Arch Swing 5" O.D. Beam Hardware Pkg.	1	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST.....	8	8
113027	3/8" x 1 3/8" BHCS w/Pin, SST.....	8	8
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST.....	4	4
100351	3/8" Tee Nut, SST.....	16	16
156846	Play Safe Label, 2-12 Yrs.....	1	1
128296	3/8" Hex Jam Nut, SST.....	8	8
182213	Hot Surface Warning Label.....	2	1
182212	Entanglement Warning Label.....	2	1
115176	Hard Surface Warning Label.....	2	1

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

Specifications

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

Swing Beam: Weldment comprised of tee clamps and 5" O.D. extruded 6005-T5 aluminum alloy tube with a .125" 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)

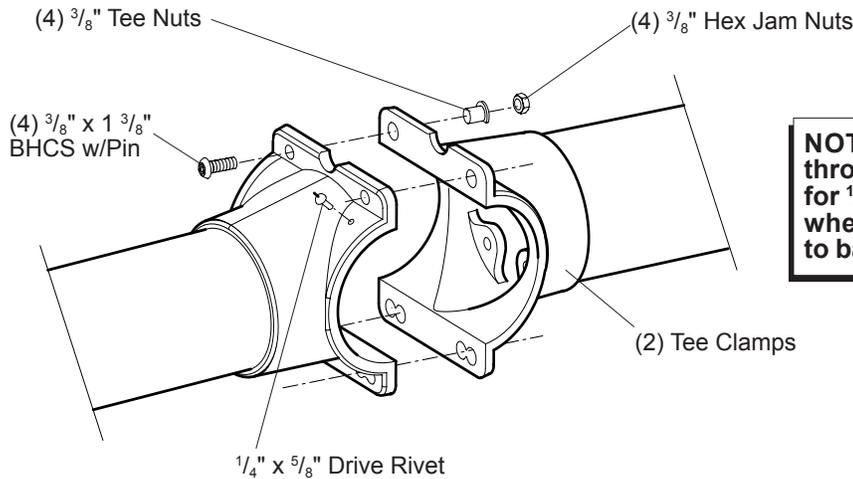
Weight: 204 lbs.
Additional Bay 124 lbs.

Fall Height: 96" (2,43 m)

Installation Instructions

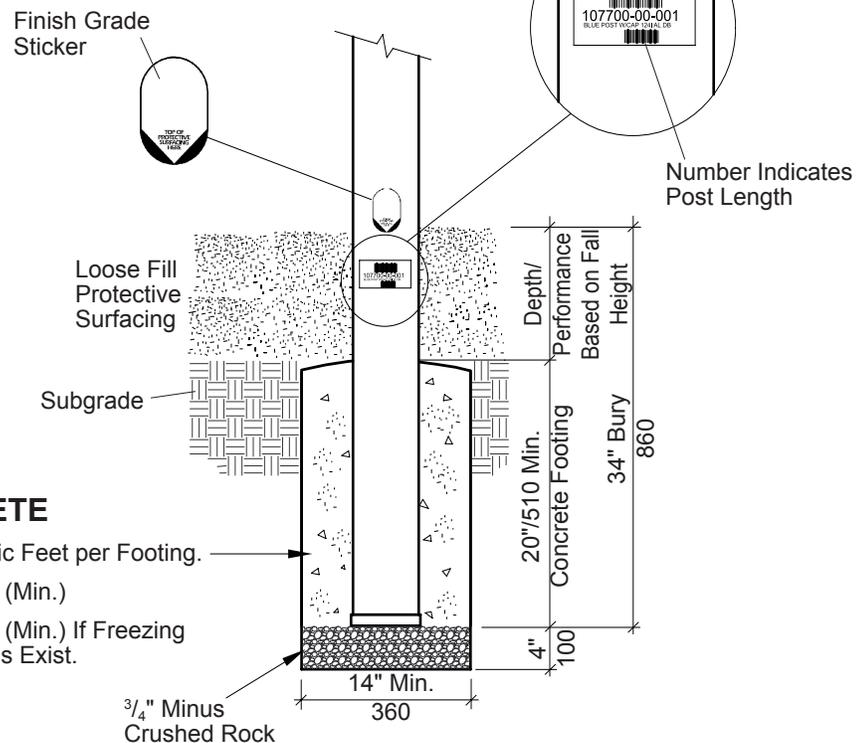
- 1) Dig footings, spaced as shown. Refer to the Concrete Footing Detail.
- 2) Set arches in footing holes and attach swing beam to center of arches using 5" half clamps with 3/8" x 1 3/8" BHCS w/pin and 3/8" tee nuts with 3/8" hex jam nuts. Refer to the Tee Clamp Position Detail. Center of beam should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

**DETAIL
BACK TO BACK
TEE CLAMPS**

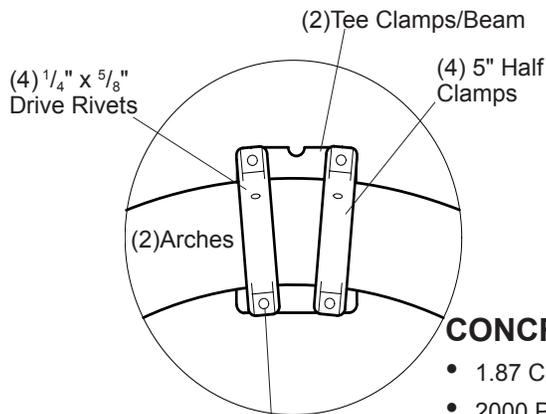


NOTE: Drill 1/4" hole through tee and arch for 1/4" x 5/8" drive rivet when installing back to back tee clamps.

**DETAIL
CONCRETE FOOTING**



**DETAIL
TEE CLAMP POSITION**

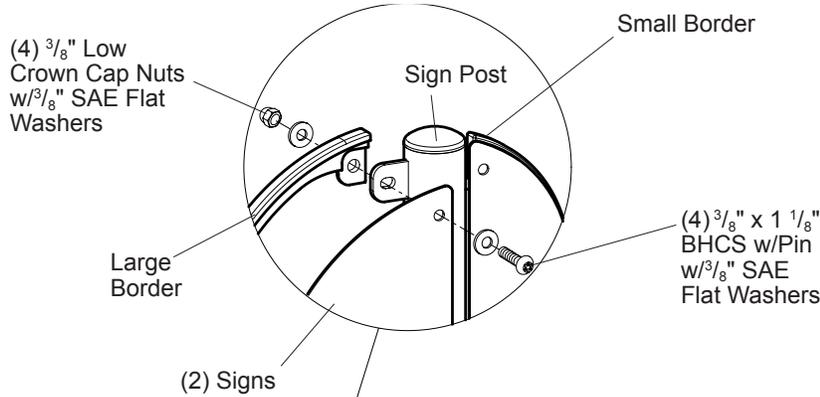


NOTE: Use Inside Holes For (4) 1/4" x 5/8" BHCS w/Pin & 3/8" Tee Nuts w/ 3/8" Hex Jam Nuts

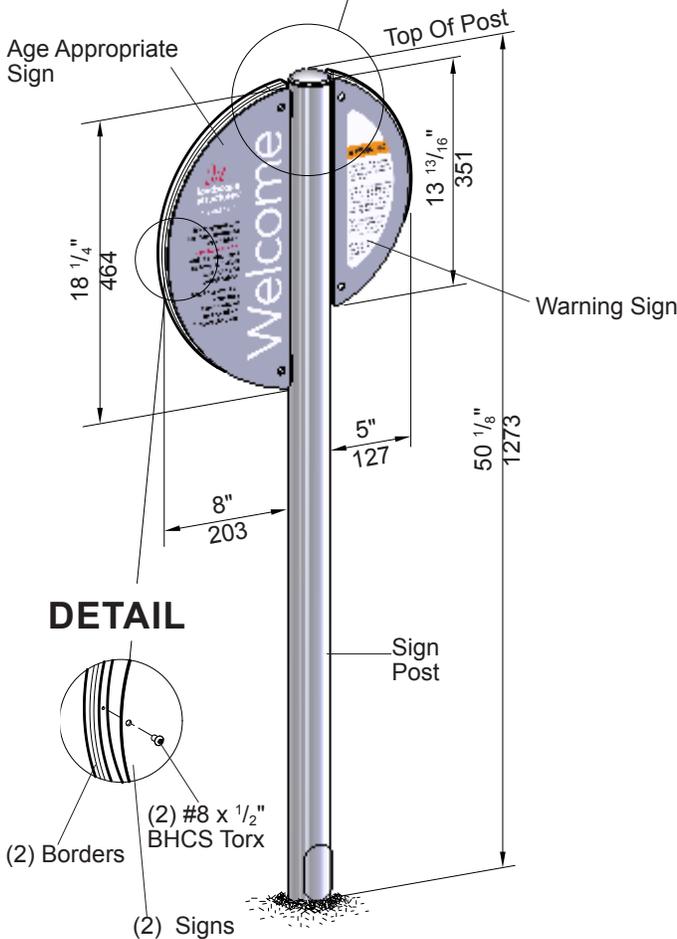
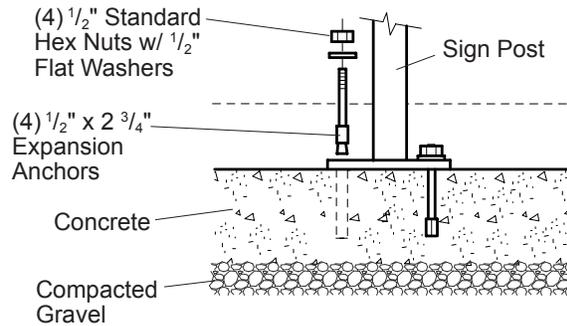
CONCRETE

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

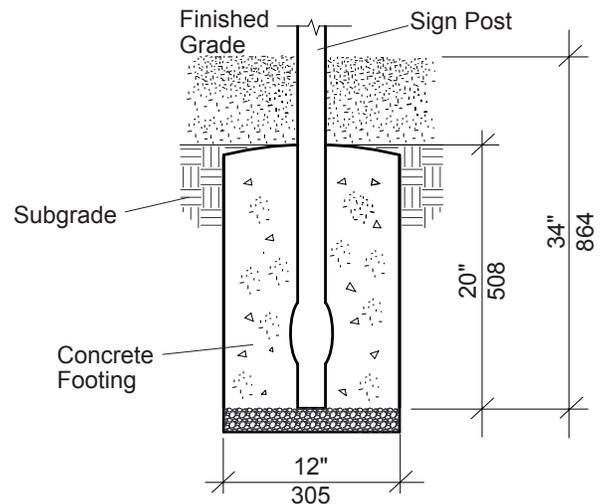
**DETAIL
SIGN ATTACHMENT**



**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

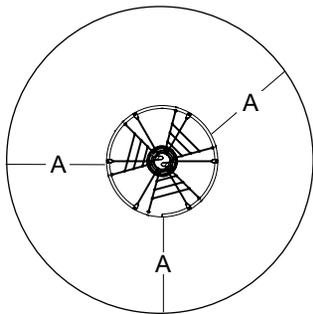
- 1) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers. Attach signs to borders using #8 x 1/2" BHCS Torx.
- 2) With sign in proper position, using a 1/2" masonry bit and hammer drill, drill 3" deep 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.

Installation Instructions

Playworld Systems® Model ZZXX0151
Spinami



Assembly View

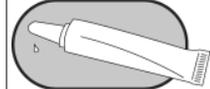
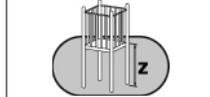


Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 2000 mm

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 6 man-hours
Concrete Required: 0.33 cubic yard (0,26 cubic meters)
Use Zone:..... Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

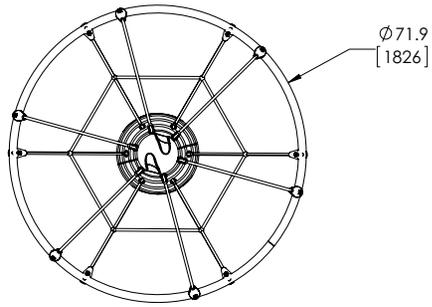
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Refer to the Elevation View for the specific Critical Fall Height for the component.

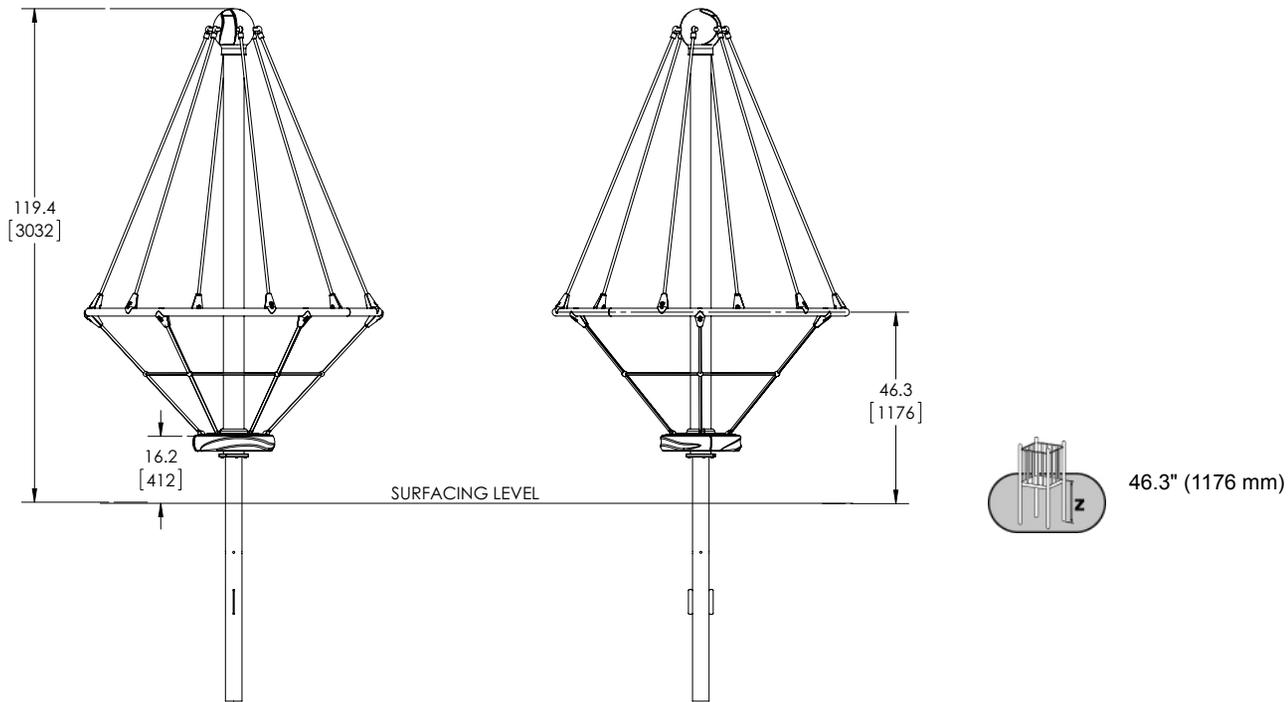
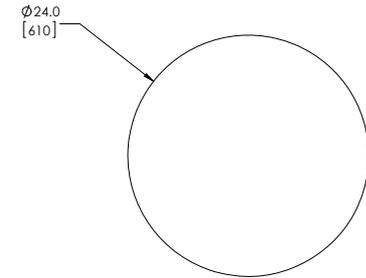
Installation Instructions

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

Top View



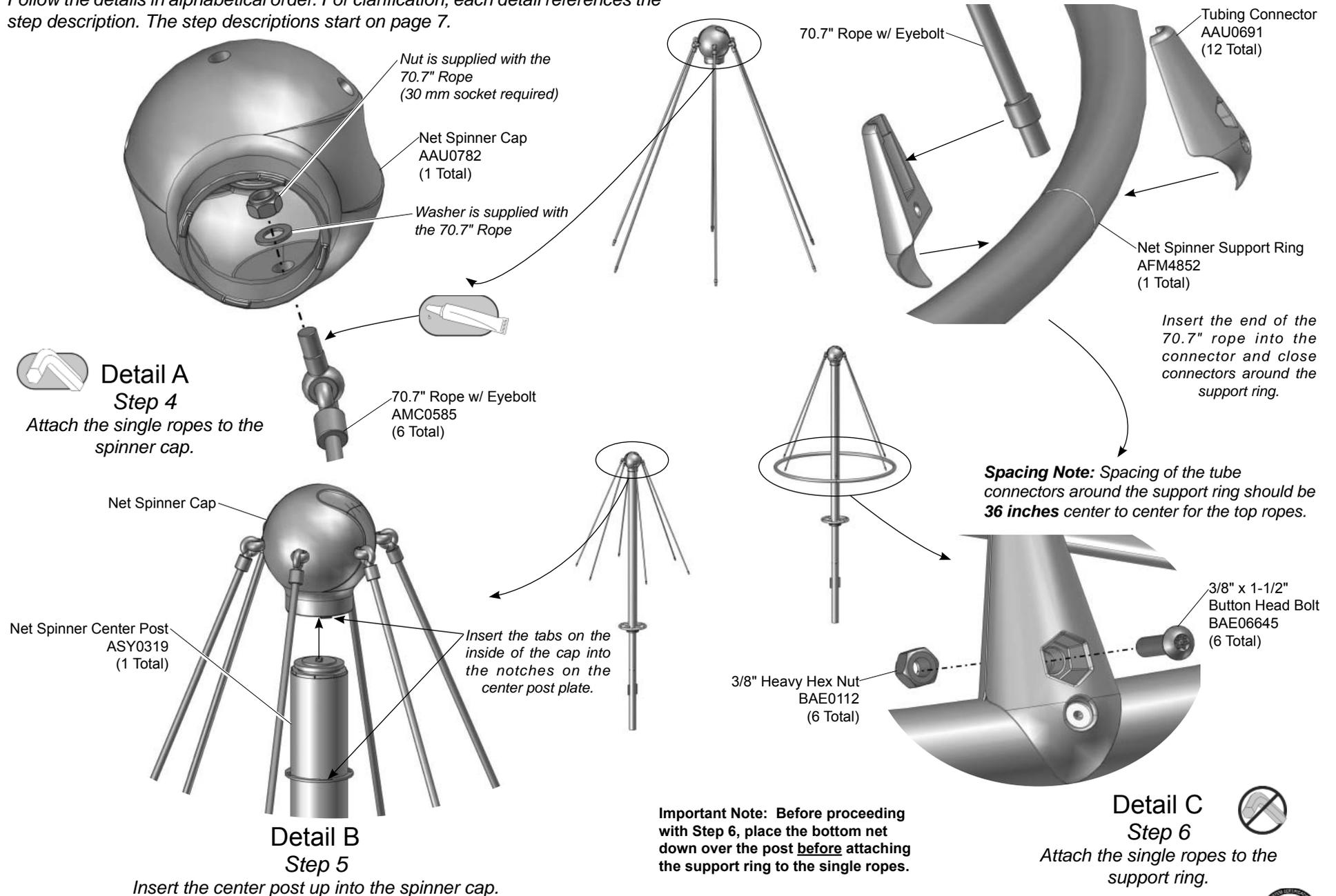
Footing Diagram



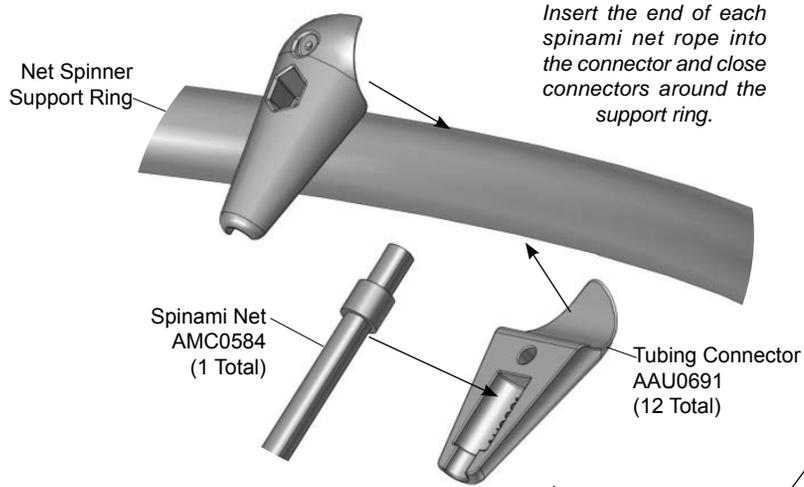
Elevation Views

Installation Instructions

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

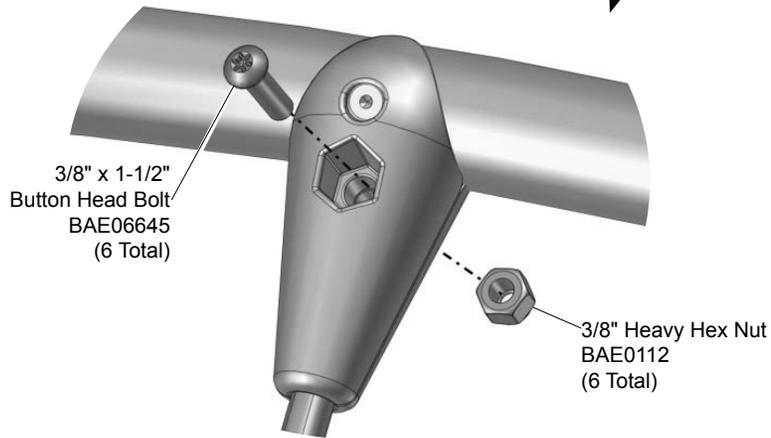


Installation Instructions



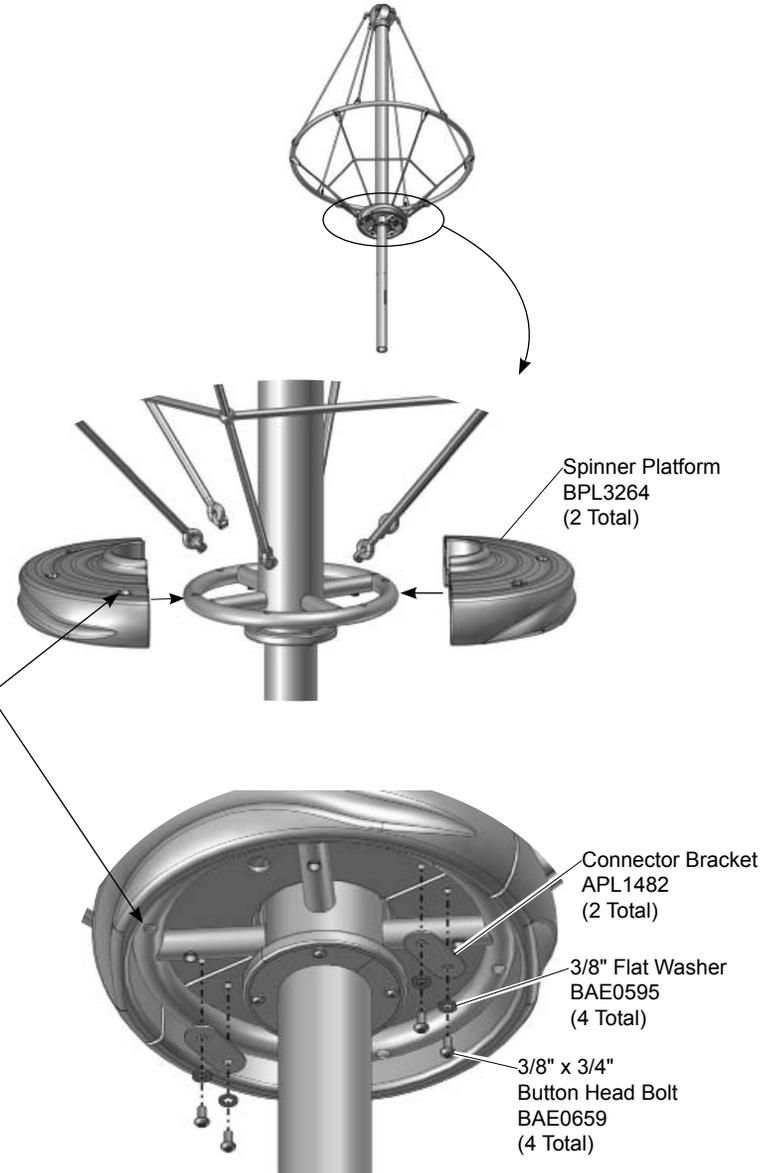
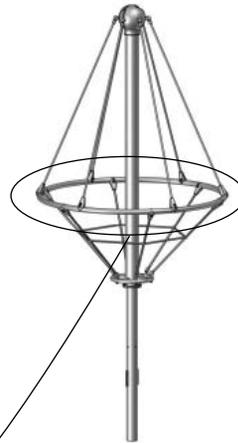
Insert the end of each spinami net rope into the connector and close connectors around the support ring.

Spacing Note: Spacing of the tube connectors around the support ring should be **35.5 inches** center to center for the bottom net.



Detail D
Step 7

Attach the spinner nets to the support ring.

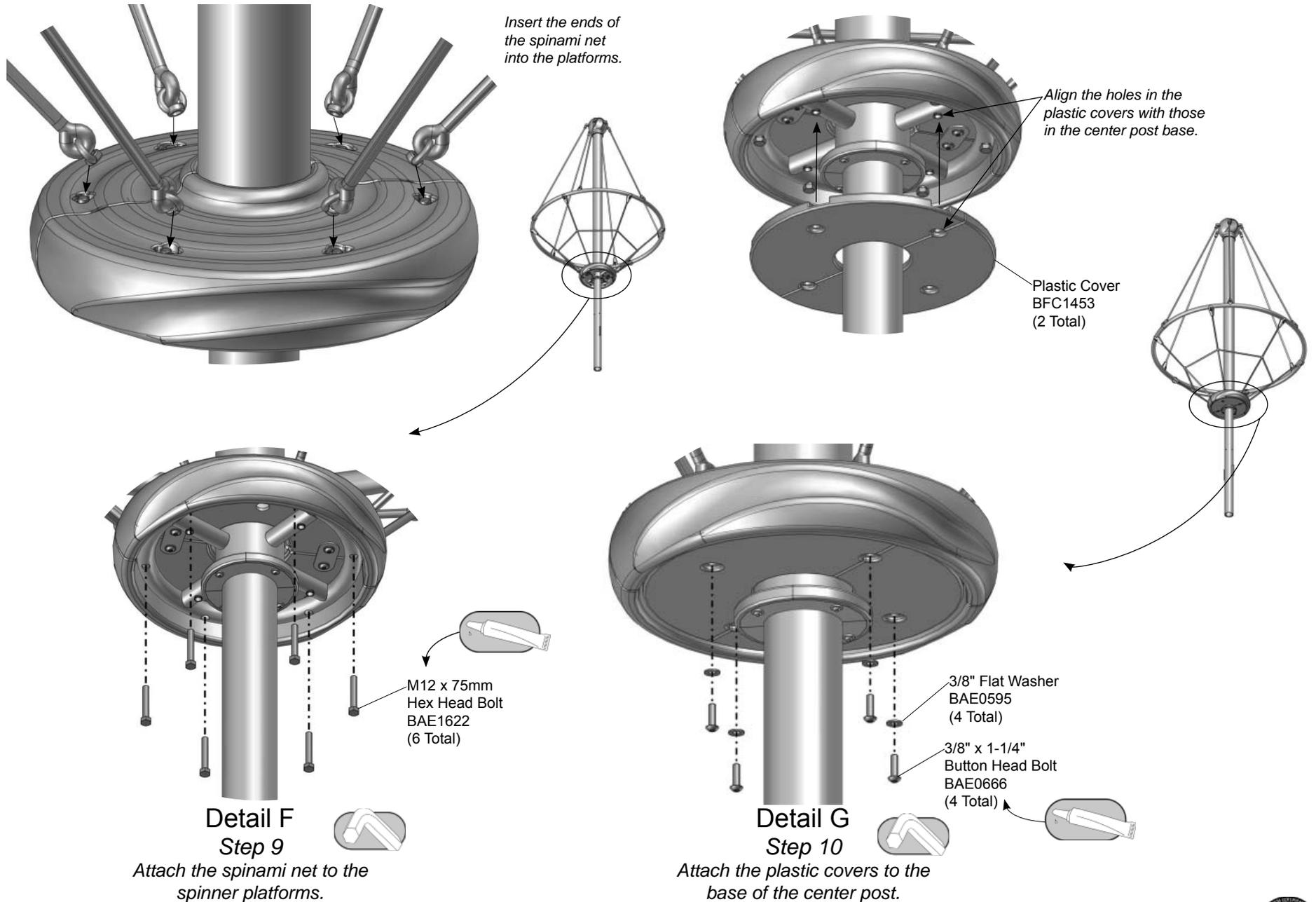


Align the holes in the platform with those in the center post base.

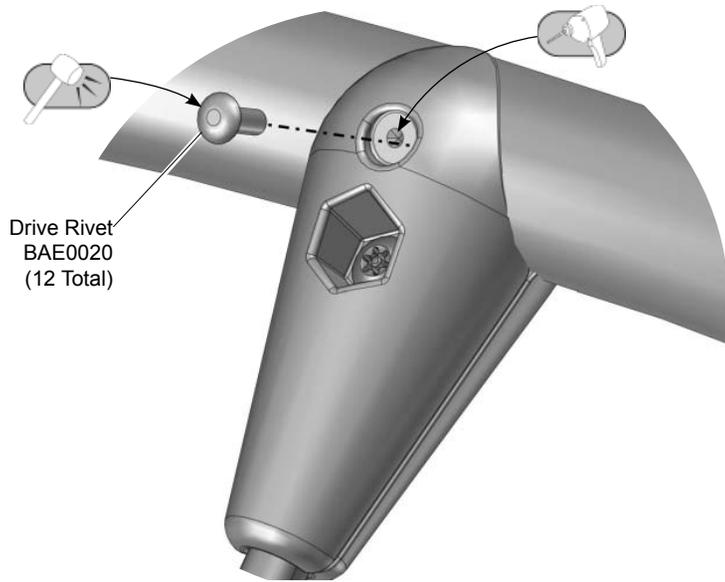
Detail E
Step 8

Attach the spinner platforms to the center post.

Installation Instructions



Installation Instructions



Drive Rivet
BAE0020
(12 Total)

Detail H Step 12

*Secure the connectors to the
support ring.*

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 the footings as shown in the **Support Post Footing Detail** on the [next page](#). Place the spinner post in the footing and block and brace in place.

Step 4: Attach the single ropes to the spinner cap. See **Detail A**. Insert the eyebolt on the end of each rope into the spinner cap, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections.

Step 5: Insert the center post up into the spinner cap. See **Detail B**. Insert the post up into the cap making sure to insert the tabs on the inside of the cap into the notches on the center post plate.

Important Note: Before proceeding with the next step, place the bottom net down over the post **before** attaching the support ring to the ropes.

Step 6: Attach the ropes to the support ring. See **Detail C**. Place the open end of each rope into a connector, close the connectors around the support ring, and attach as shown.

Note: Spacing of the connectors around the support ring should be **36 inches** center to center for the top ropes.

Step 7: Attach the spinami net to the support ring. See **Detail D**. Place the open end of each net strand into a connector, close the connectors around the support ring, and attach as shown.

Note: Spacing of the connectors around the support ring should be **35.5 inches** center to center for the net.

Step 8: Attach the spinner platforms to the base of the center post. See **Detail E**. Position the platforms onto the base of the post, align the holes, and attach as shown. Fully tighten the connections.

Step 9: Attach the spinami net to the spinner platforms. See **Detail F**. Insert the ends of the net into the holes in the platform, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections.

Step 10: Attach the plastic covers to the base of the center post. See **Detail G**. Insert the ends of the nets into the holes in the platform, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections.

Final Details.

Step 11: 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.

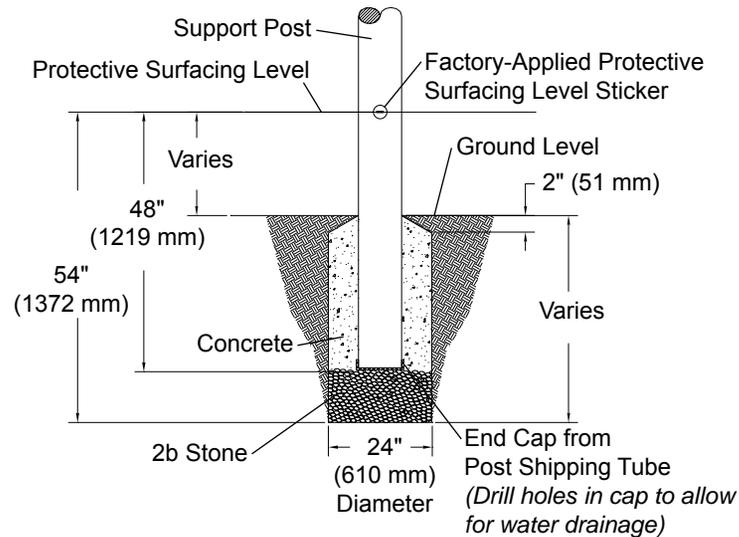
Torque Specifications:

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

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

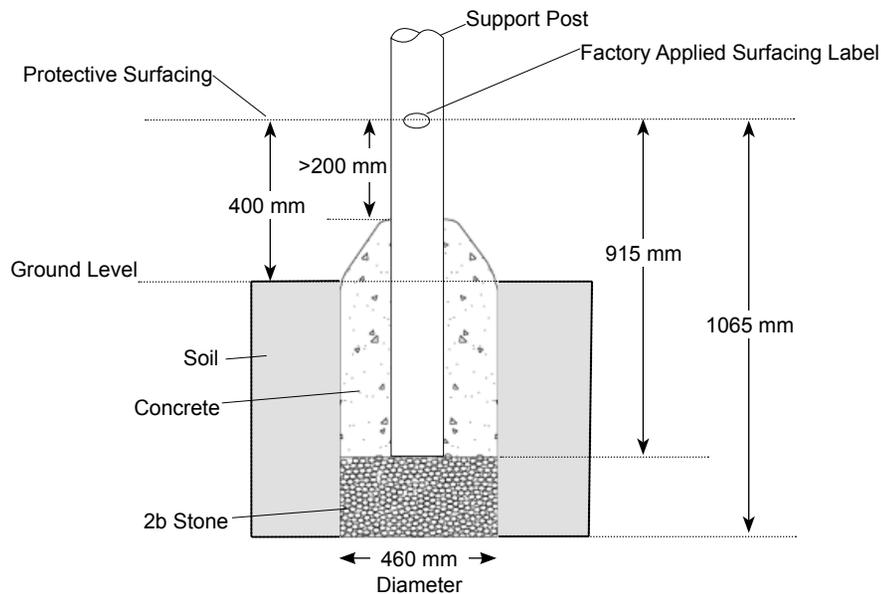
Installation Instructions



Support Post Footing Detail ASTM/CSA

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.



Footing Detail Support Post (EN)

XX0151 - SPINAMI

PART NO.	DESCRIPTION	QTY.
AAU0691	CASTING - 1.90" O.D. TUBING CONNECTOR	24
AAU0782	CASTING - NET SPINNER CAP	1
AFM4852	FAB METAL - 71.90" O.D. SUPPORT RING	1
AMC0584	SPINAMI NET (LOWER)	1
AMC0585	70.7" ROPE w/EYEBOLT	6
APL1482	PLATE - 3.50" x 1.50" x 12 GA	2
ASY0319	ASSEMBLY - NET SPINNER CENTER POST	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	12
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0112	NUT - 3/8"-16 HEAVY HEX	12
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	4
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - S.S.	12
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE1622	BOLT- M12 x 1.75 x 75mm HEX HEAD	6
BFC1453	SHEET - 16.38" x 8.19" x .75"	2
BPL3264	NET SPINNER PLATFORM	2



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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.
- 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.

Rope/Net

- Inspect the rope for any fraying, wear or loose connectors.

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 XX0151 Spinami



Inspection Form

Preventive Maintenance

... for Safety's Sake!

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

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect connectors 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			
Inspect surfacing to insure proper depth and distribution.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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





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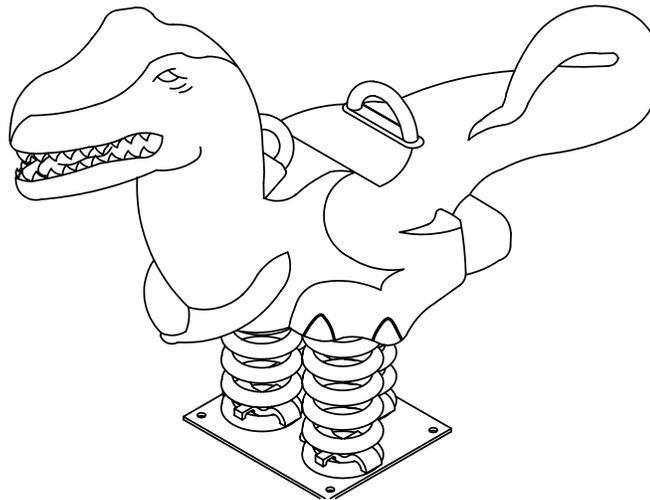
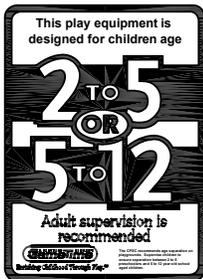
6051

ADVENTURE MATE

ISSUED/REVISED: 09/13/04

-  = INSTALLATION
= DETAIL
-  = PARTS LIST
= REFERENCE

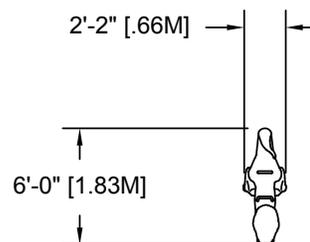
JURASSIC GREEN	6051
PURPLE	6063
IN-GROUND	6065



❑ OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F1292 AND ASTM F1487 (U.S.) OR CAN/CSA-Z614 (CANADA).

❑ THE ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE ARE DETERMINED BY EXTENDING THE PRODUCT OUTSIDE DIMENSIONS SHOWN A MINIMUM ADDITIONAL DISTANCE OF 6'-0" [1.8M] IN ALL DIRECTIONS.

❑ FOR CANADIAN INSTALLATIONS, PRODUCT REQUIRES A NO-ENCROACHMENT ZONE EXTENDING AT LEAST 6'-0" [1.83M] BEYOND THE CSA PROTECTIVE SURFACING ZONE.



TOP VIEW



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- Equipment should be placed to eliminate conflicting traffic patterns.
- All protruding nuts and bolts should be covered; sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- Never add components not intended for use with this product.
- Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.
- Check to be sure all fittings are tight and that the bars and pipes do not move.
- A soft, resilient surface should be placed under all climbers, extending at least six feet in all directions surrounding the climbers. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

SPECIFICATIONS

DINOSAUR: Shall be approximately 6'-0" [1.83 M] long by 2'-2" [.66 M] wide and shall have two seats. A 1-5/16" diameter looped handle shall be provided at each seat. The dinosaur shall be rotationally molded from polyethylene. The polyethylene shall be linear low density material. All materials U-V stabilized with the color molded in and shall have a nominal wall thickness of 1/4". All plastic products shall meet or exceed the following specifications: ASTM D-1248, Type 2, Class A and Federal Specification LP-390C, Type 1, Class M, Grade 2, Category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D638); Flexural Modulus (ASTM D-790). All graphics are molded into part.

SPRING: Shall be fabricated 3/4" diameter wire, of 5-1/2" O.D. x 13-1/2" long. Spring is fabricated especially for GAMETIME® Saddlemates. The spring shall have a powder coat black finish.

TOP MOUNTING PLATE: Shall be fabricated of 0'-1/4" x 1'-2" x 1'-9-3/4" hot rolled flat steel. Plate shall have a powder coat black finish.

BOTTOM MOUNTING PLATE: Shall be fabricated of 0'-1/4" x 1'-0" x 1'-2" hot rolled flat steel. Plate shall have a powder coat black finish.

IN-GROUND MOUNTING PLATE: Shall be fabricated of (1) 0'-1/4" x 1'-0" x 1'-2" top plate and (3) 5" O.D. (.120" wall) galvanized uprights, 2'-6-1/16" long. Assembly shall have a powder coat black finish.

SPRING MOUNT CASTING: Shall be high strength type 32510 malleable iron.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate supplied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

INSTALLATION INSTRUCTIONS

NOTE: THIS SPECIFICATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Read installation instructions thoroughly before starting assembly. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.

FOR 6051 / 6063

STEP 1: Dig required ground hole and fill with concrete. See Footing Detail and 6051/6053 Assembly Drawing.

NOTE: AFTER ASSEMBLY IS COMPLETE, THE SEAT AREA HEIGHT SHOULD BE BETWEEN 1'-2" [35.56 CM] AND 2'-4" [71.12 CM] ABOVE THE FINISHED SURFACE.

STEP 2: Place the first 1/2" hex nut onto the (4) anchor bolts so that 0'-1" [2.54 cm] of the anchor bolt comes through the hex nut. Place the (4) anchor bolts through the bottom mounting plate at each corner and tighten, using 1/2" flatwashers, lockwashers, and hex nuts. See Assembly Drawing.

STEP 3: While concrete is still wet yet firm enough to support the bottom mounting plate, make three 2" x 4" x 1" deep [5.08 cm x 10.16 cm x 2.54 cm] depressions in the concrete as shown in the Footing Detail. Then position the bottom mounting plate on the concrete footing, pushing the (4) anchor bolts down into the cement until the plate comes to rest on the footing. Level bottom mounting plate and allow a minimum of 48 hours for concrete to harden before proceeding with assembly.

STEP 4: After concrete has cured, remove bottom mounting plate by removing the 1/2" flatwasher, lockwasher, and hex nut at each corner. Secure the (3) coil springs to the bottom mounting plate using 1-1/4" fine thread hex head bolts, 1/2" flatwashers and lockwashers, and spring mount castings. See Detail 'A'.

STEP 5: Bolt top mounting plate to coil springs using 1/2" x 1-1/4" fine thread hex head bolts, 1/2" flatwashers and lockwashers, and spring mount castings. See Detail 'A' for proper location.

STEP 6: After concrete has cured, place the spring/mounting plate assembly back onto the (4) anchor bolts and secure with 1/2" flatwashers, lockwashers, and hex nuts. See Assembly Drawing.

STEP 7: VERY IMPORTANT Place (12) 3/8" flatwashers between dinosaur body and top mounting plate. Then bolt dinosaur body to top mounting plate using 3/8" x 1-1/4" hex head bolts, and 3/8" flatwashers and lockwashers. See Detail 'A'.

FOR 6065

STEP 1: Dig required ground hole as shown in Assembly Drawing.

NOTE: AFTER ASSEMBLY IS COMPLETE, THE SEAT AREA HEIGHT SHOULD BE BETWEEN 1'-2" [35.56 CM] AND 2'-4" [71.12 CM] ABOVE THE top mounting plate using 1-1/4" fine thread hex head bolts, 1/2" flatwashers and lockwashers, and spring mount castings. See Detail 'A'.

STEP 5: After concrete has cured, position the spring/mounting plate assembly on the in-ground mount assembly and secure using 1/2" x 1" hex head bolts, 1/2" lockwashers and hex nuts. See Assembly Drawing.

STEP 6: VERY IMPORTANT Place (12) 3/8" flatwashers between dinosaur body and top mounting plate. Then bolt dinosaur body to top mounting plate using 3/8" x 1-1/4" hex head bolts, and 3/8" flatwashers and lockwashers. See Detail 'A'.

NOTE: Approximately .27 cubic yards [.21 cubic meters] of concrete required.

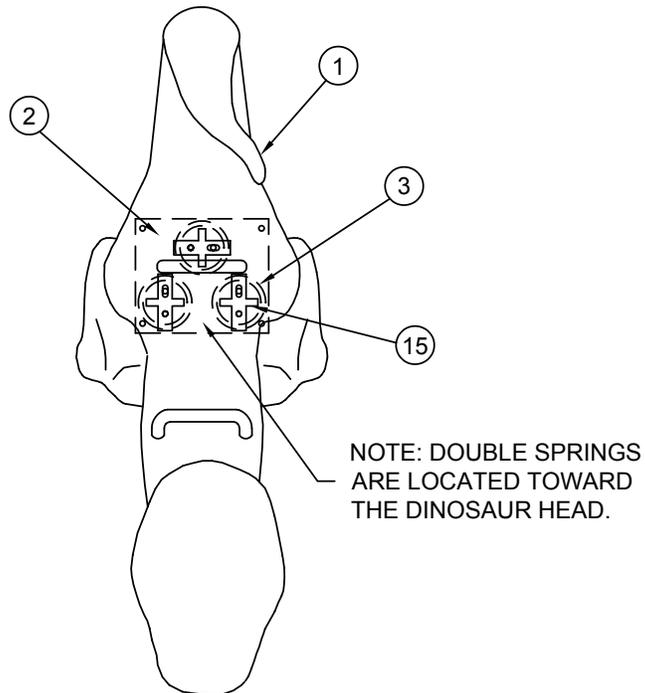
NOTE: Loctite (supplied by others) should be used on all threaded hardware.

PARTS LIST

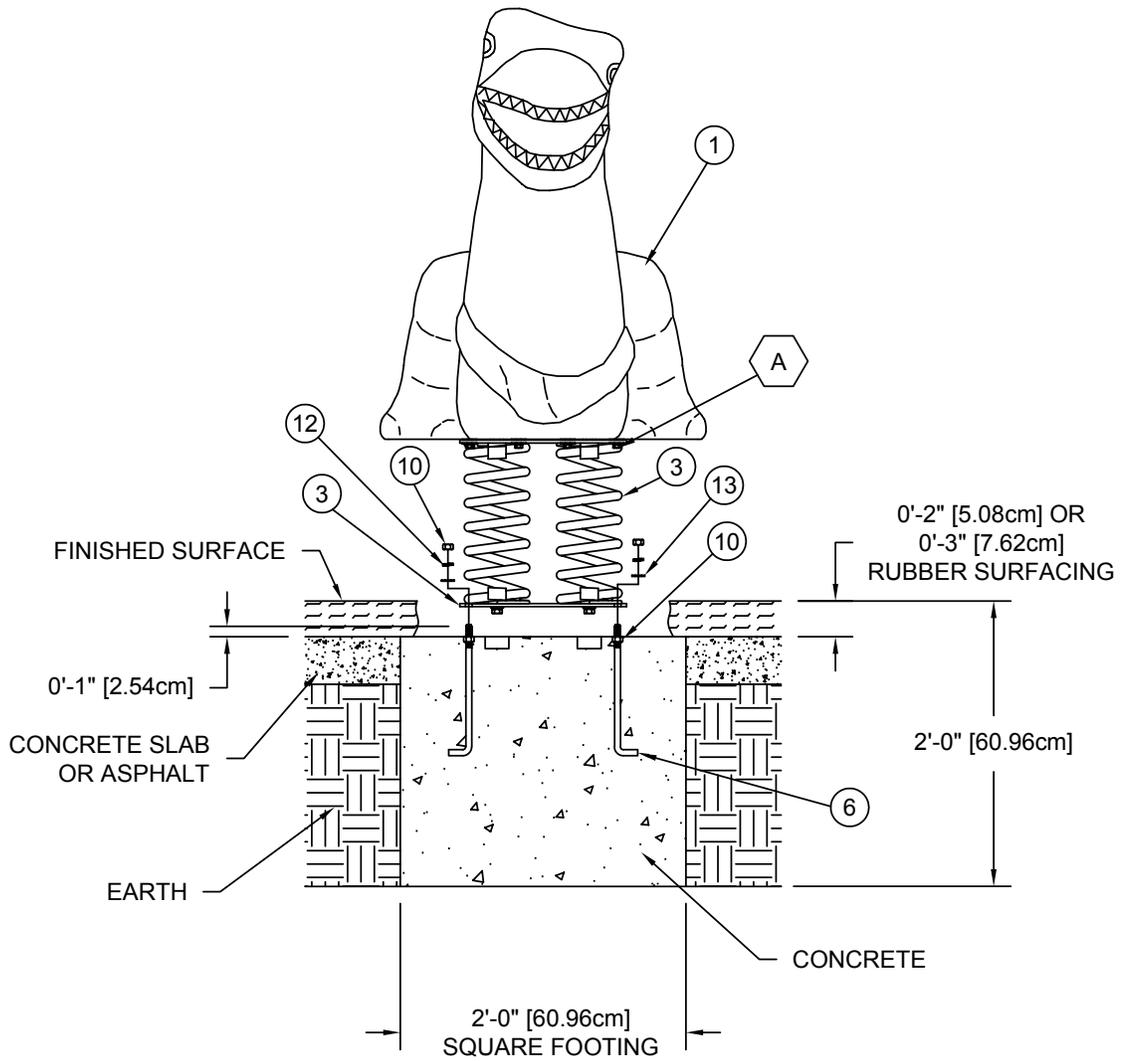
REF. NO.	DESCRIPTION	NO. REQ'D.			PART NUMBER
		6051	6063	6065	
1	Dinosaur	1	0	0	147730
1	Dinosaur	0	1	0	147729
2	Bottom Mounting Plate	1	1	0	163473
3	Coil Spring	3	3	0	100334
4	Top Mounting Plate	1	1	0	147731
5	In-Ground Mount Ass'y.	0	0	1	163470
	<i>Hardware Complete</i>	1	1	1	141698
6	1/2" Anchor Bolt	4	4	4	800000*
7	3/8" x 1-1/4" Hex Head Bolt	12	12	12	801004*
8	1/2" x 1" Hex Head Bolt	4	4	4	801203*
9	1/2" x 1-1/4" Fine Thread Hex Head Bolt	12	12	12	801254*
10	1/2" Hex Nut	12	12	12	804055*
11	3/8" Lockwasher	12	12	12	817334*
12	1/2" Lockwasher	20	20	20	817342*
13	1/2" Flatwasher	16	16	16	817412*
14	3/8" Flatwasher (1-1/4" O.D.)	24	24	24	817424*
15	Spring Mount Casting	6	6	6	1089*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.



PLAN VIEW



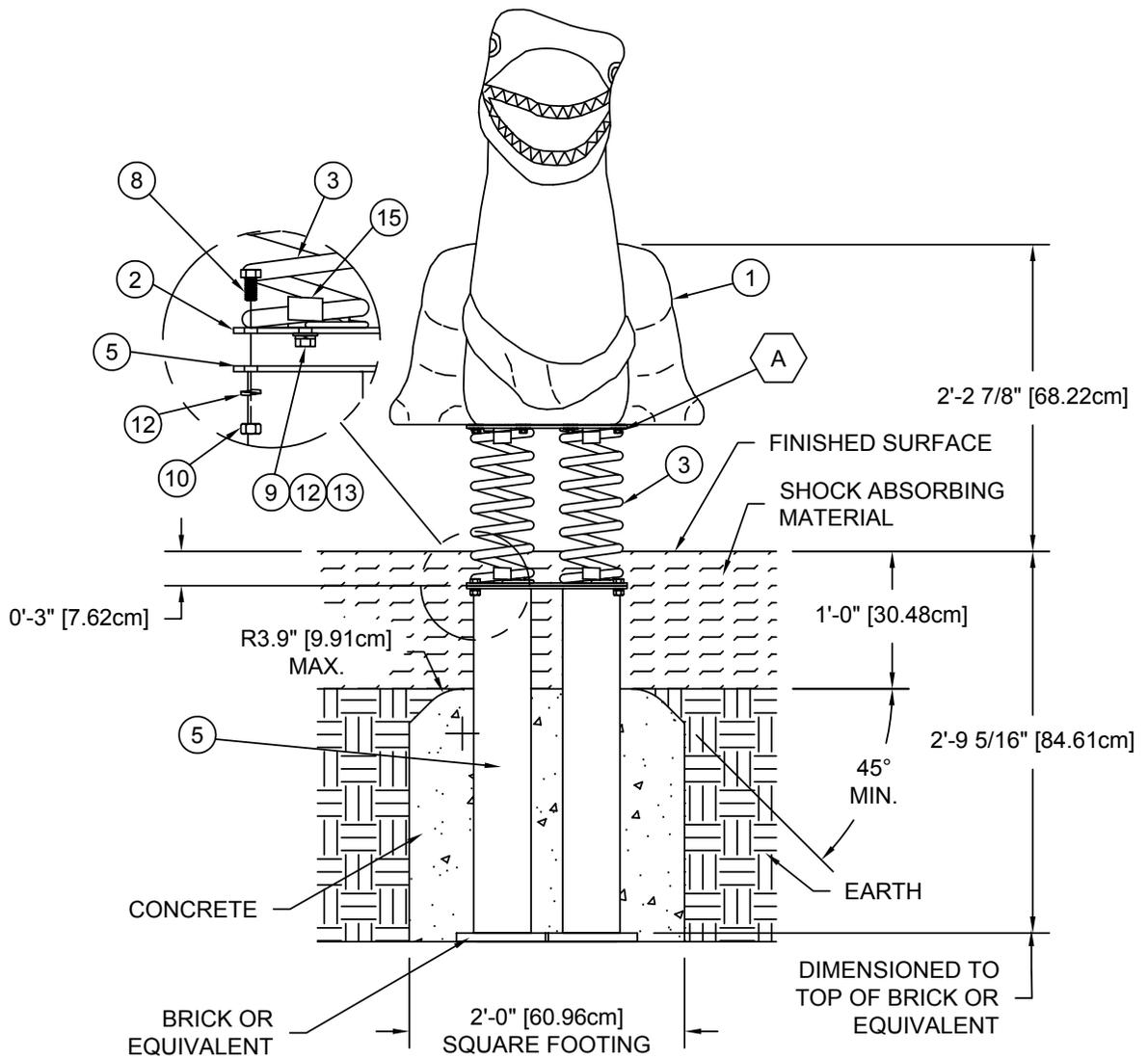
ASSEMBLY DRAWING
6051/6063

NOTE:

□ HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE ASSEMBLY DRAWINGS. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

□ SUGGESTED MINIMUM CONCRETE RATING: 3000psi

CONCRETE REQUIRED:
APPROXIMATELY .27 CUBIC YARDS
[.21 CUBIC METERS]



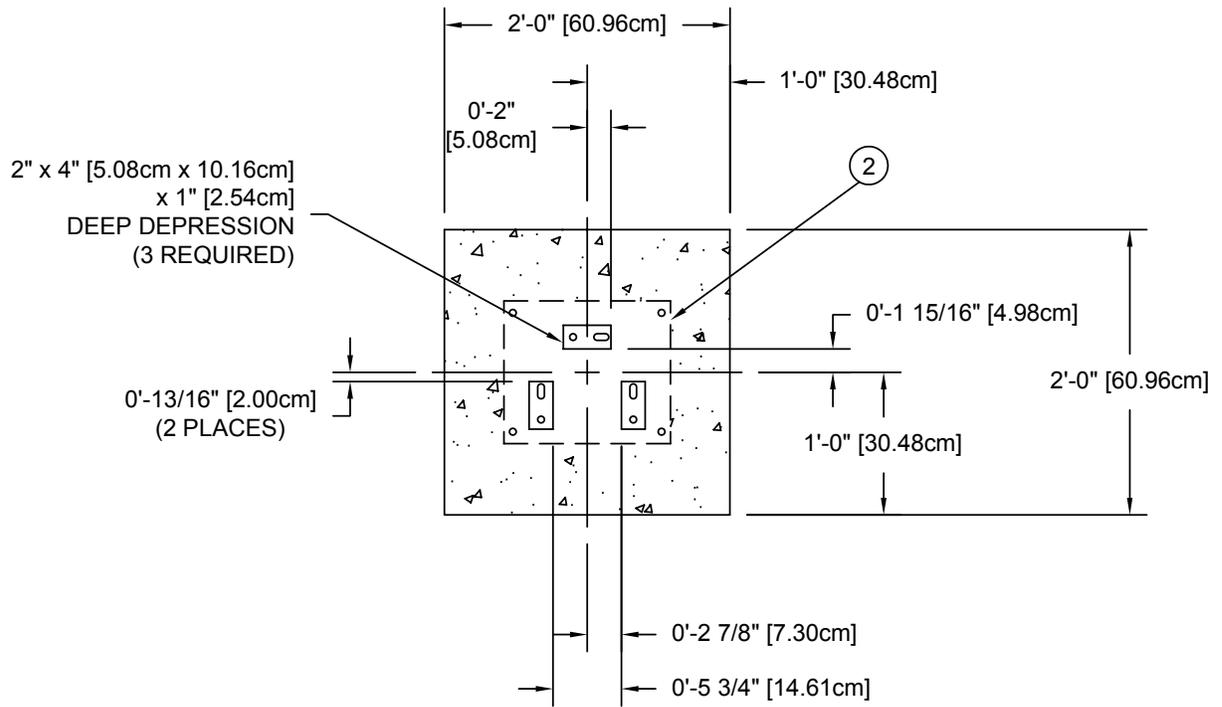
ASSEMBLY DRAWING
6065

NOTE:

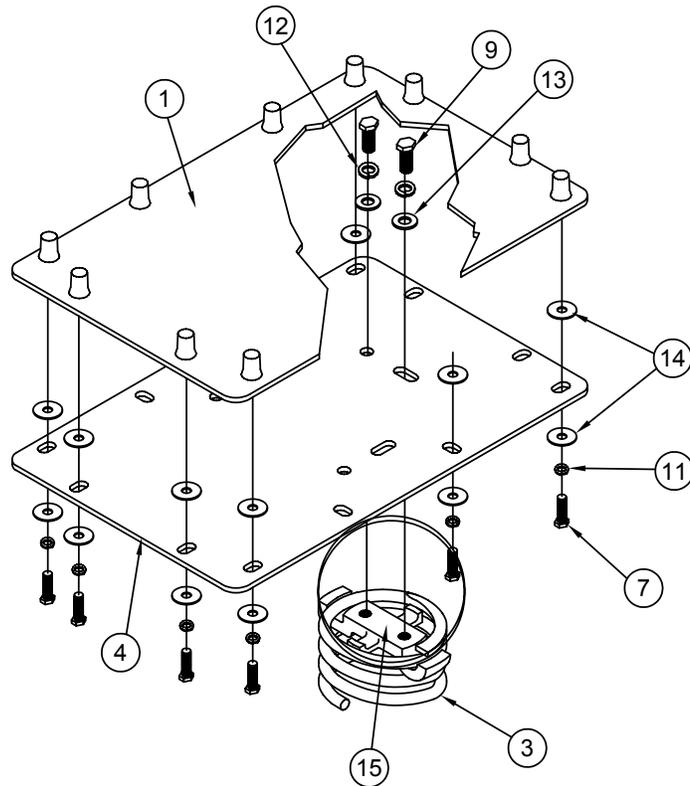
- HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE ASSEMBLY DRAWINGS. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.
- SUGGESTED MINIMUM CONCRETE RATING: 3000psi
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1

CONCRETE REQUIRED:
APPROXIMATELY .27 CUBIC YARDS
[.21 CUBIC METERS]

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



FOOTING DETAIL



DETAIL 'A'