



Assembly View *(representative model)*

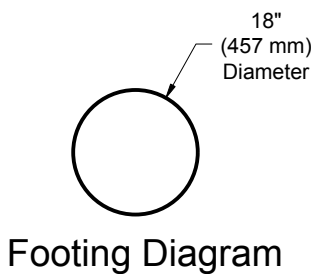
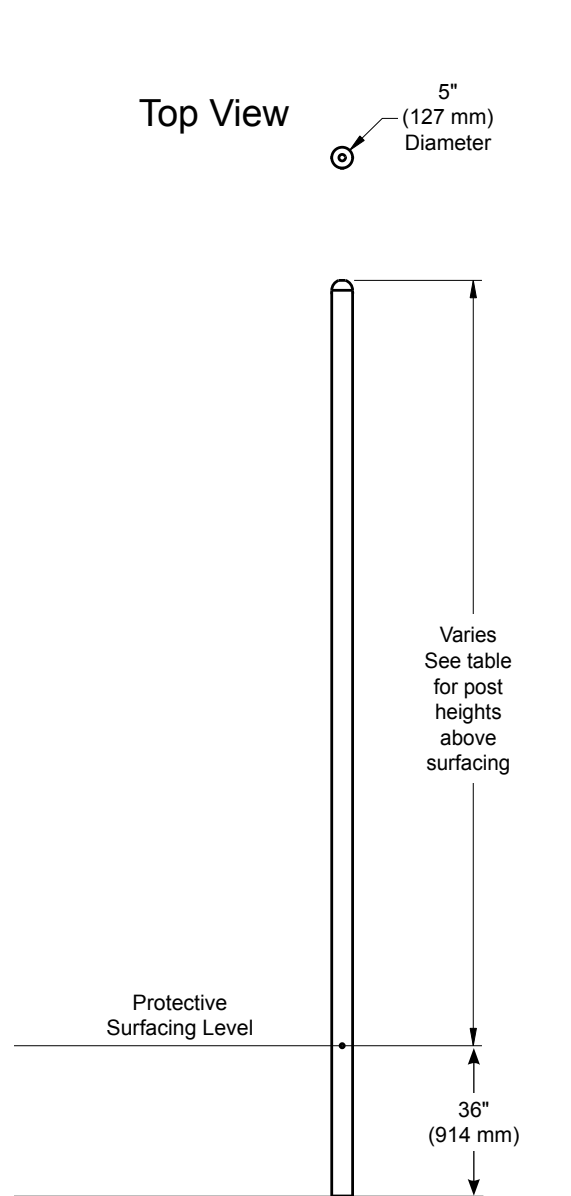
Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016,
PM0026, PM0036, PM0046, PM0056, PM0066,
PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

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

Installation Instructions



Model	Post Height	Height Above Surfacing
ZZPM0006	96" (2438 mm)	60" (1524 mm)
ZZPM0008	108" (2743 mm)	72" (1829 mm)
ZZPM0016	120" (3048 mm)	84" (2134 mm)
ZZPM0026	132" (3353 mm)	96" (2438 mm)
ZZPM0036	144" (3658 mm)	108" (2743 mm)
ZZPM0046	156" (3962 mm)	120" (3048 mm)
ZZPM0056	168" (4267 mm)	132" (3353 mm)
ZZPM0066	180" (4623 mm)	144" (3658 mm)
ZZPM0078	205" (5207 mm)	169" (4293 mm)
ZZPM0128	192" (4877 mm)	156" (3962 mm)
ZZPM0266	217" (5512 mm)	181" (4597 mm)
ZZPM0268	229" (5817 mm)	193" (4902 mm)



Installation Instructions

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

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Step 3: Prepare footings as shown in the **Support Post Footing Detail** in the *Playmakers Guidelines*.

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

Final Details.

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

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBL AT 36"	1

PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 36"	1

PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBL AT 36"	1

PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBL AT 36"	1

PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 36"	1

PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBL AT 36"	1

PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 36"	1

PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBL AT 36"	1

PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBL AT 36"	1

PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

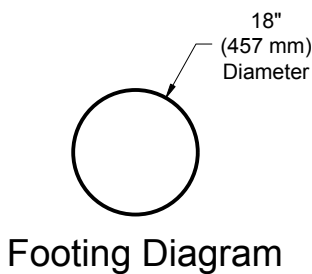
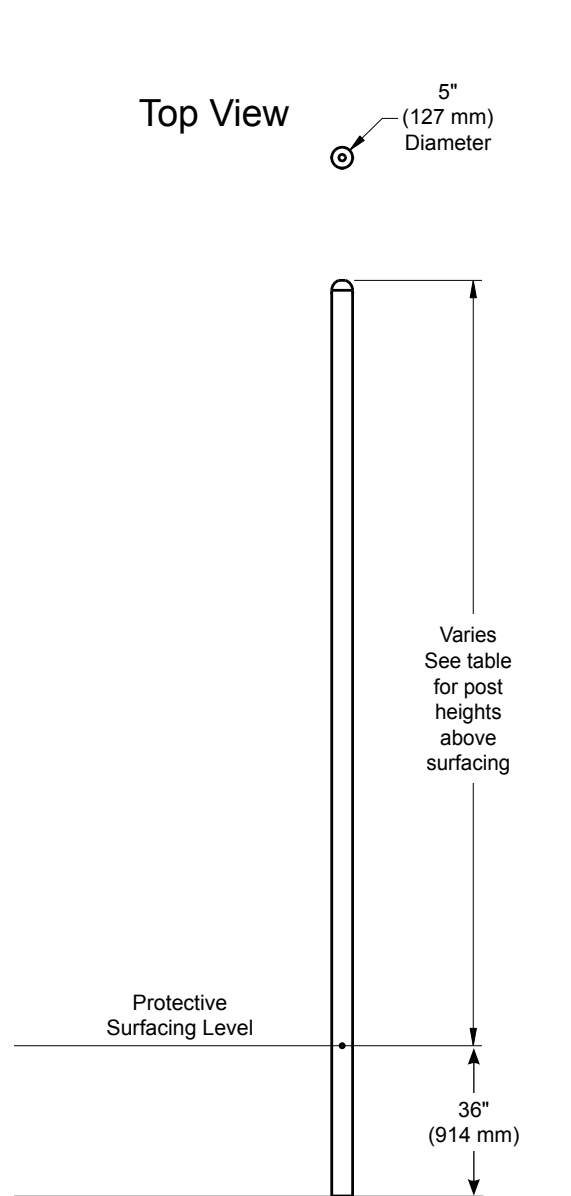
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PM0026, PM0036, PM0046, PM0056, PM0066,
PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

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

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

Final Details.

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

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBL AT 36"	1

PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 36"	1

PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBL AT 36"	1

PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBL AT 36"	1

PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 36"	1

PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBL AT 36"	1

PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 36"	1

PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBL AT 36"	1

PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBL AT 36"	1

PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

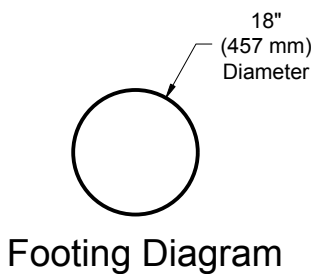
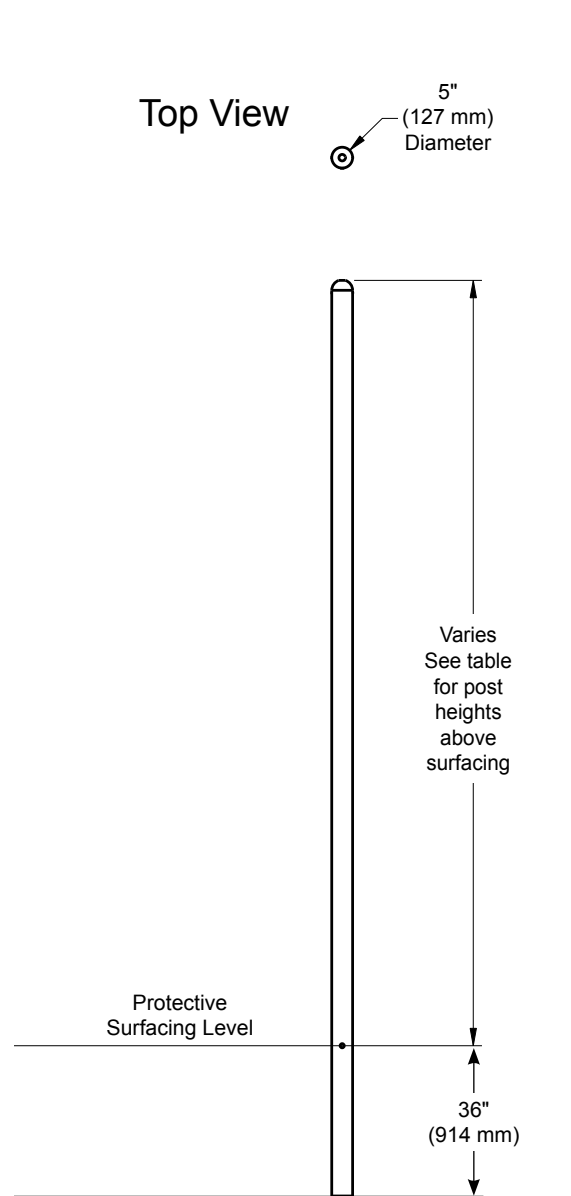
Installation Instructions

Playmakers® Models PM0006, PM0008, PM0016,
PM0026, PM0036, PM0046, PM0056, PM0066,
PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

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

Installation Instructions



Model	Post Height	Height Above Surfacing
ZZPM0006	96" (2438 mm)	60" (1524 mm)
ZZPM0008	108" (2743 mm)	72" (1829 mm)
ZZPM0016	120" (3048 mm)	84" (2134 mm)
ZZPM0026	132" (3353 mm)	96" (2438 mm)
ZZPM0036	144" (3658 mm)	108" (2743 mm)
ZZPM0046	156" (3962 mm)	120" (3048 mm)
ZZPM0056	168" (4267 mm)	132" (3353 mm)
ZZPM0066	180" (4623 mm)	144" (3658 mm)
ZZPM0078	205" (5207 mm)	169" (4293 mm)
ZZPM0128	192" (4877 mm)	156" (3962 mm)
ZZPM0266	217" (5512 mm)	181" (4597 mm)
ZZPM0268	229" (5817 mm)	193" (4902 mm)



Installation Instructions

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

Final Details.

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

PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBL AT 36"	1

PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 36"	1

PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBL AT 36"	1

PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBL AT 36"	1

PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 36"	1

PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBL AT 36"	1

PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 36"	1

PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBL AT 36"	1

PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBL AT 36"	1

PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

Installation Instructions

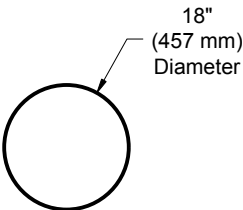
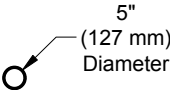
Playmakers® Models PM0017, PM0027, PM0037,
PM0047, PM0057, PM0067, PM0079, PM0129,
PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

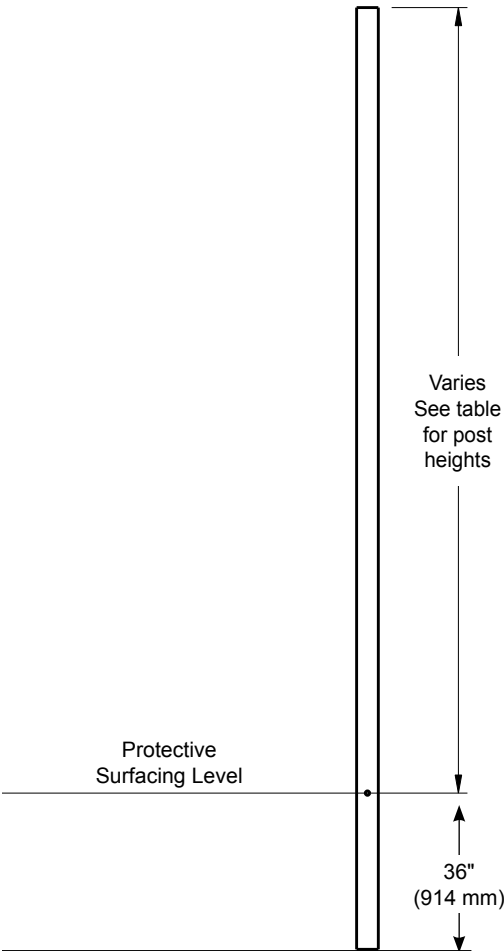
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0017	120" (3048 mm)	84" (2134 mm)
ZZPM0027	132" (3353 mm)	96" (2438 mm)
ZZPM0037	144" (3658 mm)	108" (2743 mm)
ZZPM0047	156" (3962 mm)	120" (3048 mm)
ZZPM0057	168" (4267 mm)	132" (3353 mm)
ZZPM0067	180" (4572 mm)	144" (3658 mm)
ZZPM0079	205" (5207 mm)	169" (4293 mm)
ZZPM0129	192" (4877 mm)	156" (3962 mm)
ZZPM0136	96" (2438 mm)	60" (1524 mm)
ZZPM0138	108" (2743 mm)	72" (1829 mm)
ZZPM0267	217" (5512 mm)	181" (4597 mm)
ZZPM0269	229" (5817 mm)	193" (4902 mm)



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Final Details.

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

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBL AT 36"	1

PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBL AT 36"	1

PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBL AT 36"	1

PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBL AT 36"	1

PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBL AT 36"	1

PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBL AT 36"	1

PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBL AT 36"	1

PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBL AT 36"	1

PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBL AT 36"	1

PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBL AT 36"	1

PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBL AT 36"	1

PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBL AT 36"	1





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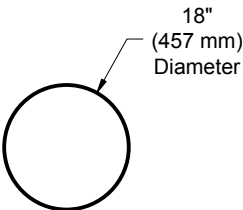
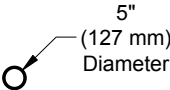
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96 in. (2438 mm) to 229 in. (5817 mm)

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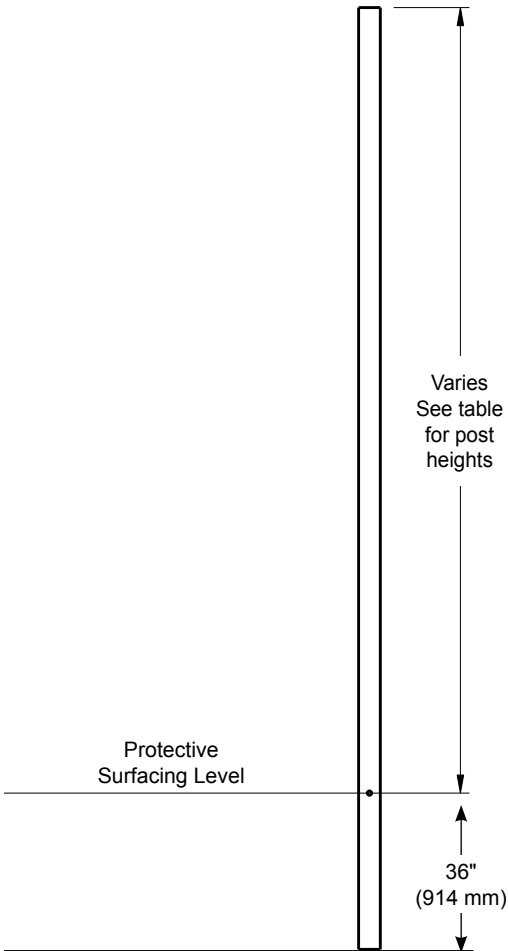
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Installation Instructions

Top View



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PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBL AT 36"	1

PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBL AT 36"	1

PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBL AT 36"	1

PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBL AT 36"	1

PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBL AT 36"	1

PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBL AT 36"	1

PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBL AT 36"	1

PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBL AT 36"	1

PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBL AT 36"	1

PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBL AT 36"	1

PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBL AT 36"	1

PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBL AT 36"	1

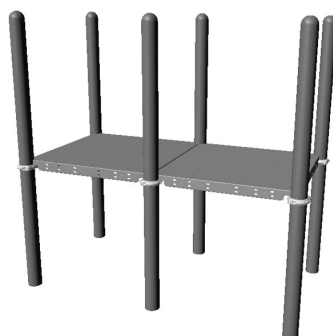


Installation Instructions

Playmakers® PM0616 and PM0629
Square and Long
Coated Perforated Decks



ZZPM0616
Square Deck




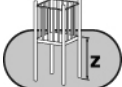

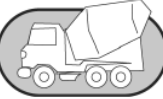
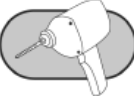


ZZPM0629
Long Deck

Assembly View

Installation Preparation

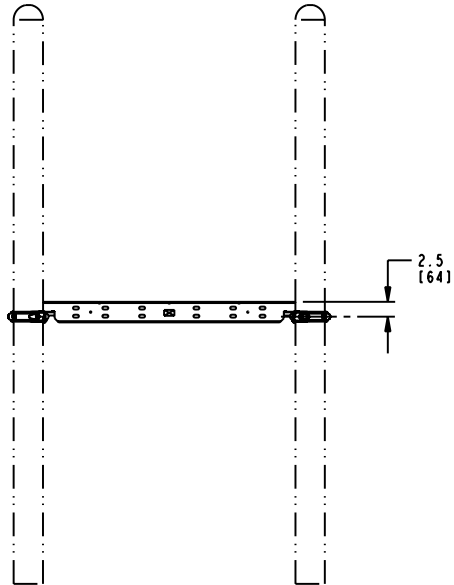
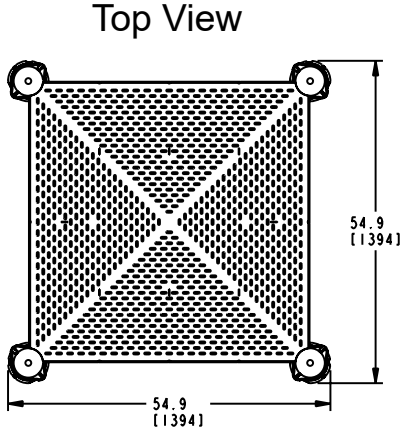
Recommended Crew (PM0616):..... Two (2) adults
Recommended Crew (PM0629):..... Four (4) adults
Installation Time (PM0616): 1 man-hour
Installation Time (PM0629): 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

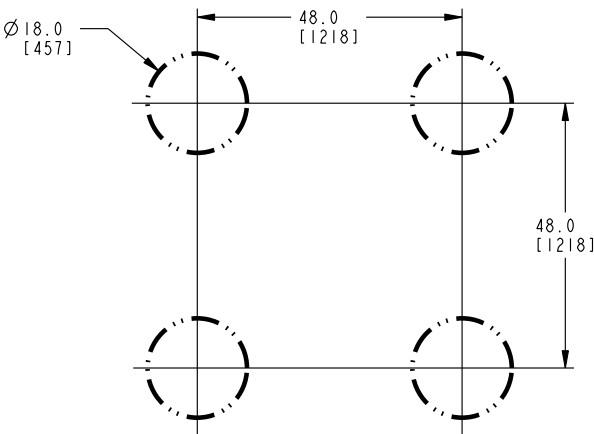
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

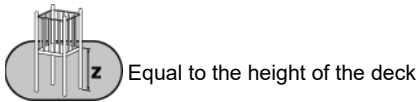
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

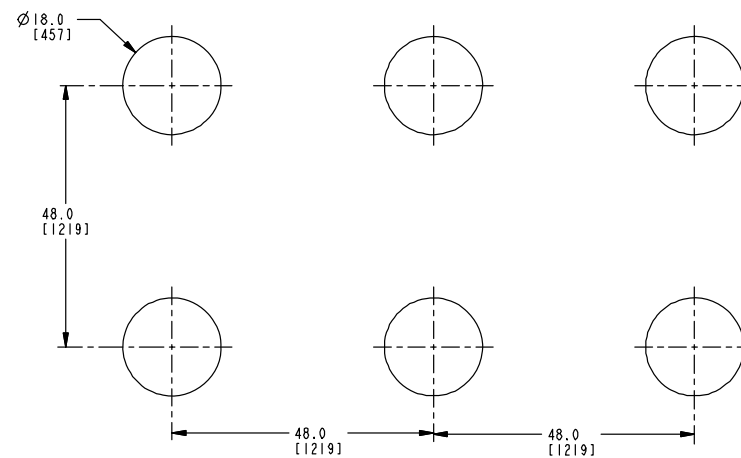
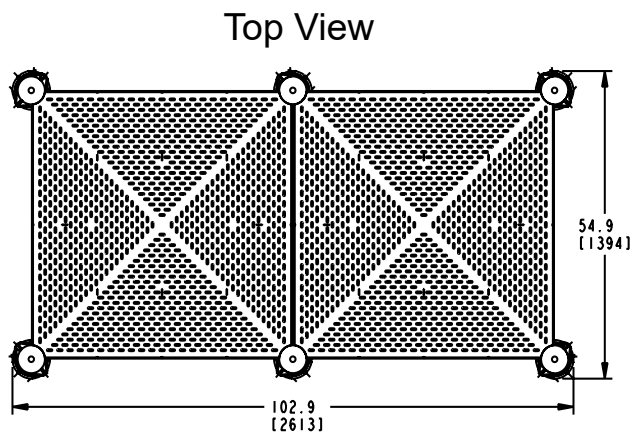


Footing Diagram

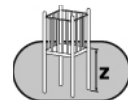
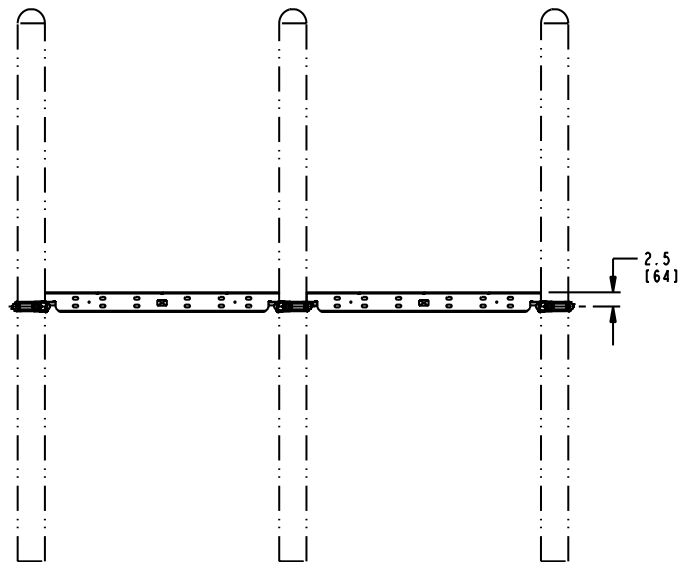


Installation Instructions

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



Footing Diagram



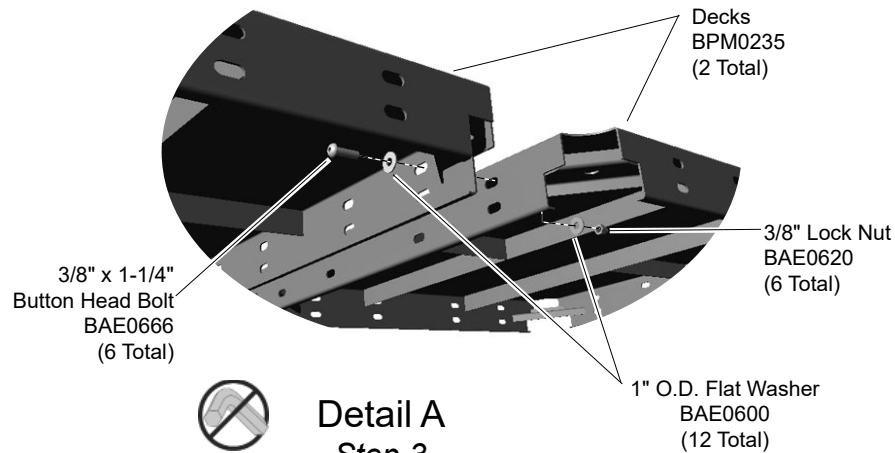
Equal to the height of the deck

Elevation View
Model PM0629



Installation Instructions

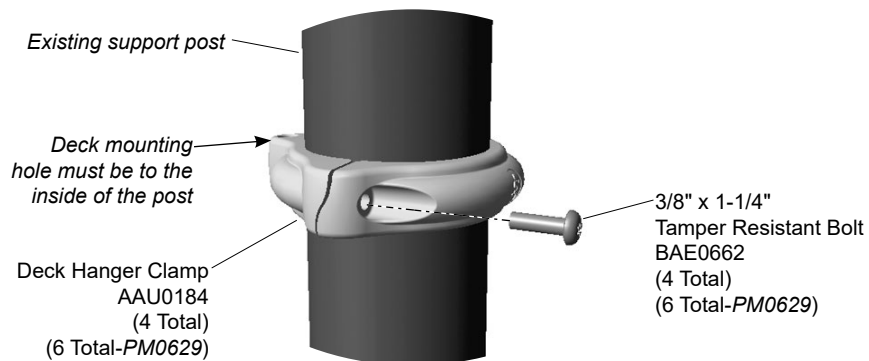
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 3

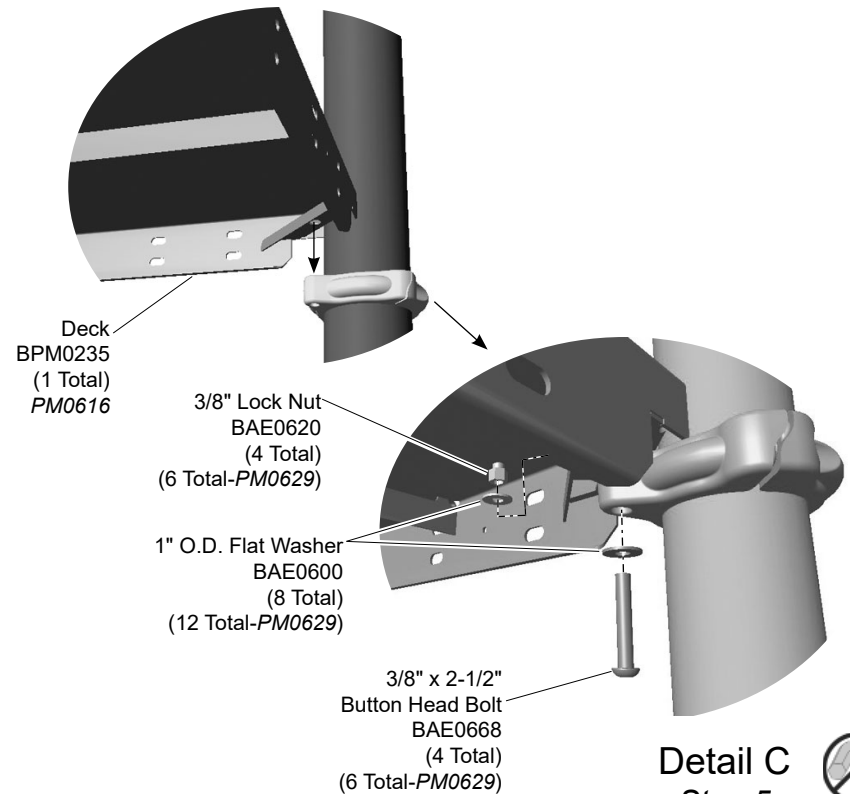
(Model PM0629 Only)

Attach the two decks together.



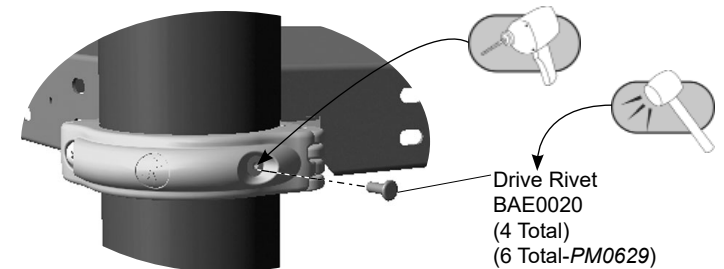
Detail B Step 4

Attach the deck clamps to the support posts.



Detail C Step 5

Attach the decks to the clamps.



Detail D Step 7

Secure the clamps to the support posts.

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

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

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

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

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

Final Details.

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

Torque Specifications:

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

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

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

PM0616 - SQUARE COATED PERFORATED DECK

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

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



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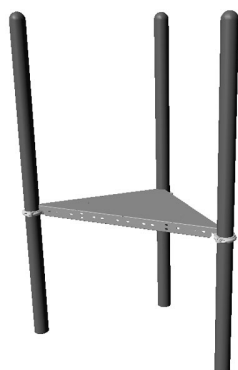
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

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



ZZPM0617
Triangular Deck




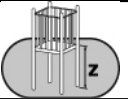

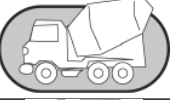



ZZPM0639
45 Degree Tri-Deck

Assembly View

Installation Preparation

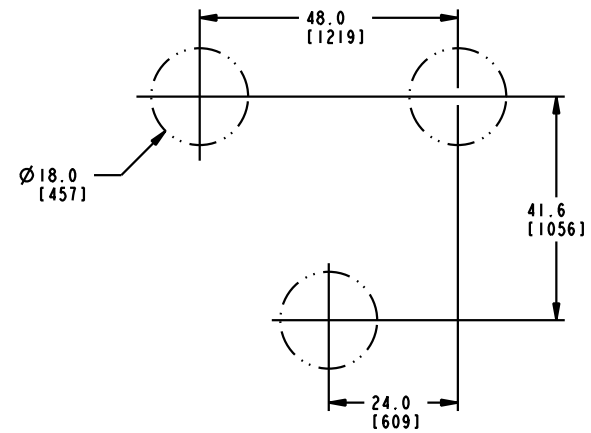
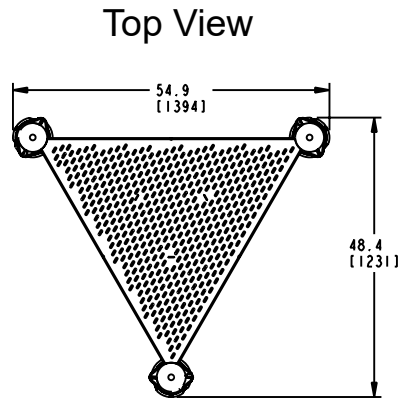
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

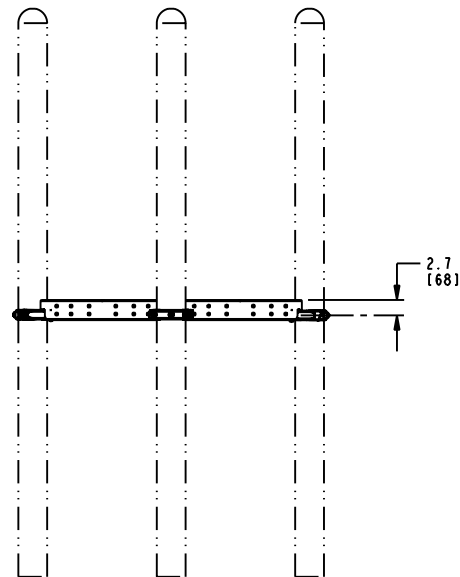
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

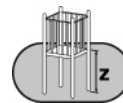
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



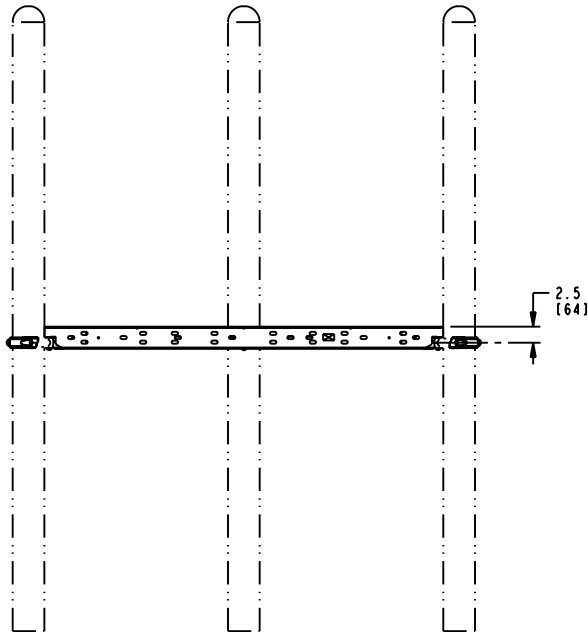
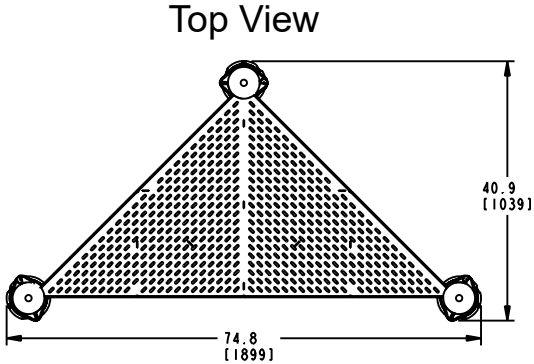
Elevation View
Model PM0617



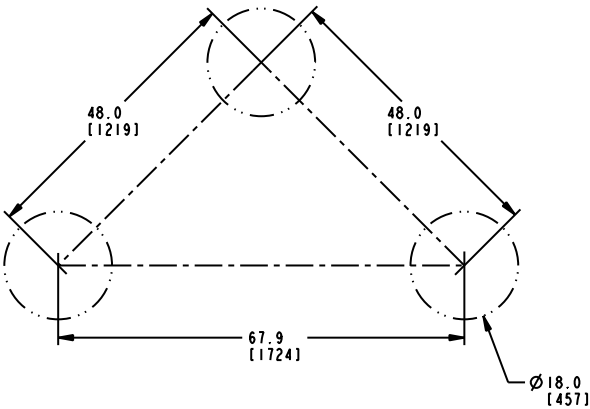
Equal to the height of the deck

Installation Instructions

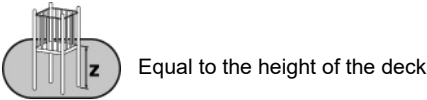
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0639

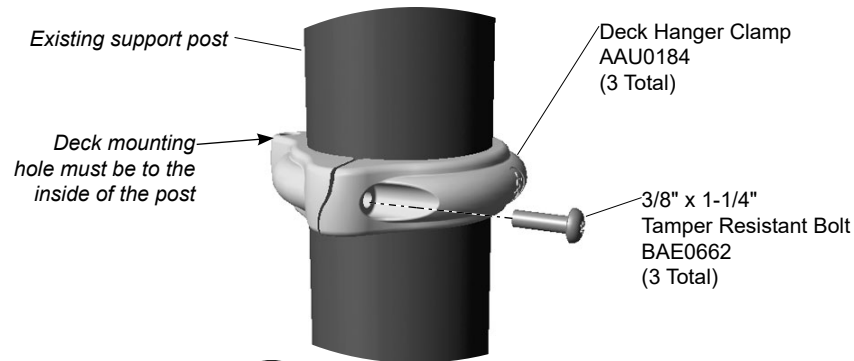


Footing Diagram



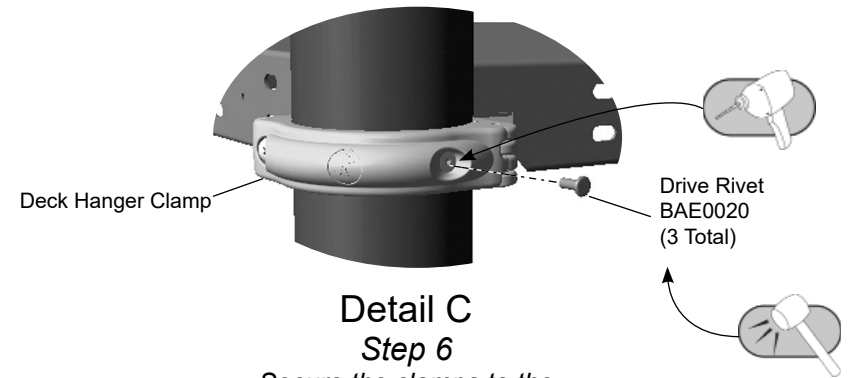
Installation Instructions

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



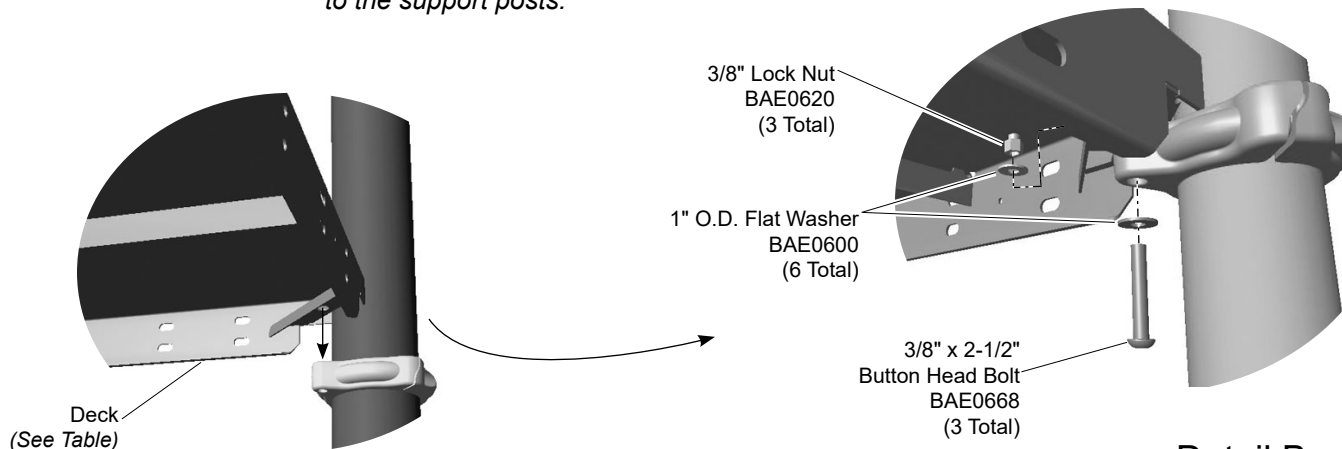
Detail A
Step 3

Attach the deck hanger clamps to the support posts.



Detail C
Step 6

Secure the clamps to the support posts.



Detail B
Step 4

Attach the deck to the deck hanger clamps.

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

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

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

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

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

Final Details.

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

Torque Specifications:

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

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

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

PM0617 - TRIANGULAR COATED PERFORATED DECK

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

PM0639 - 45 DEGREE TRI-DECK

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



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Assembly View (representative model)

Installation Instructions

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

Installation Preparation

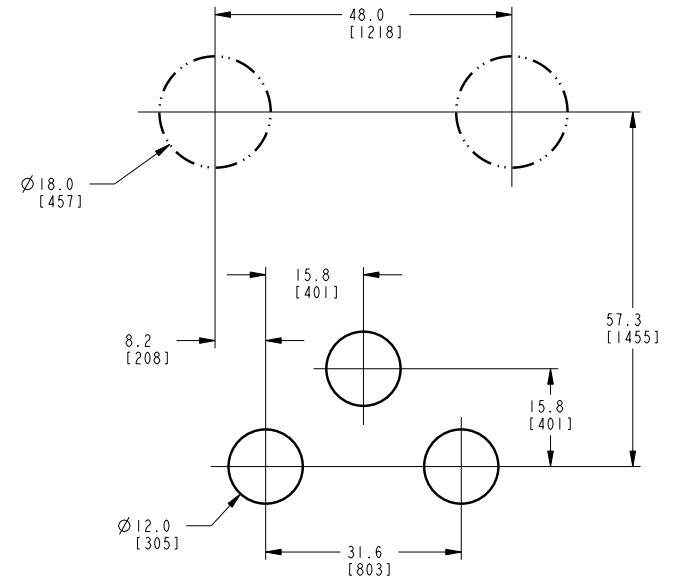
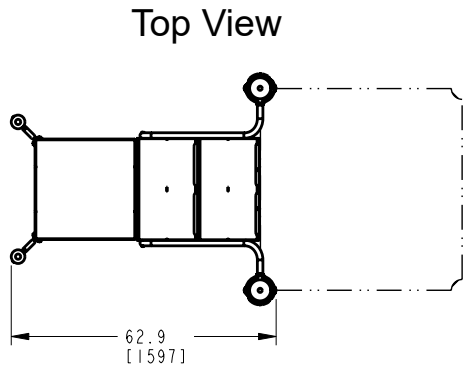
Recommended Crew: Two (2) adults
Installation Time (In-Ground): 3 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.09 cubic yard (0,07 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

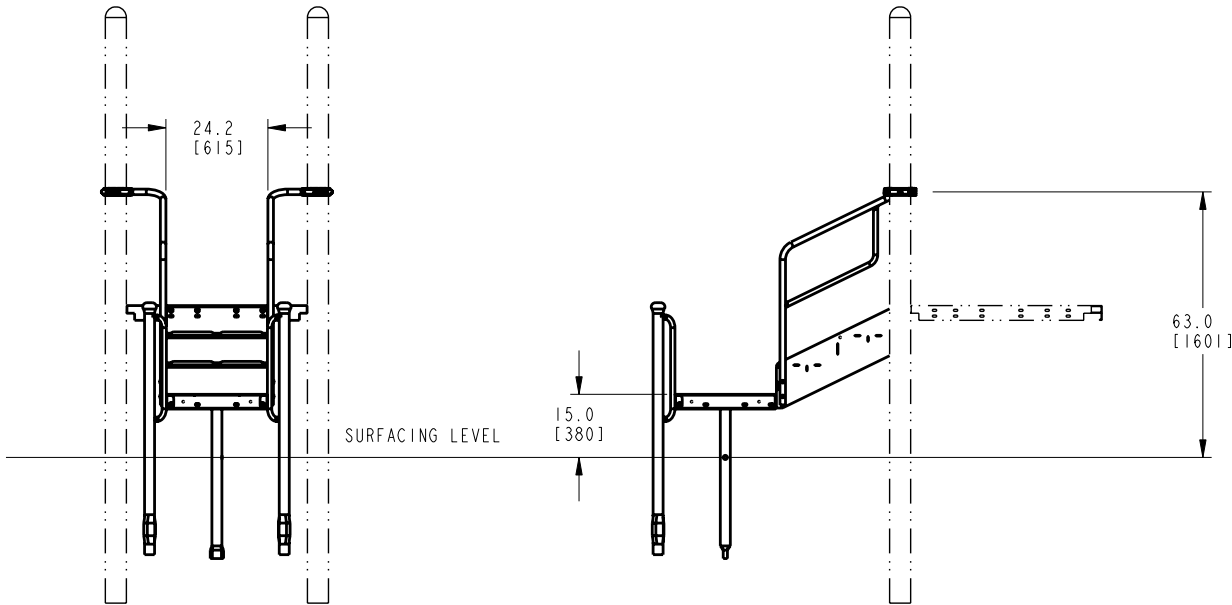
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	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

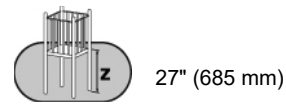
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



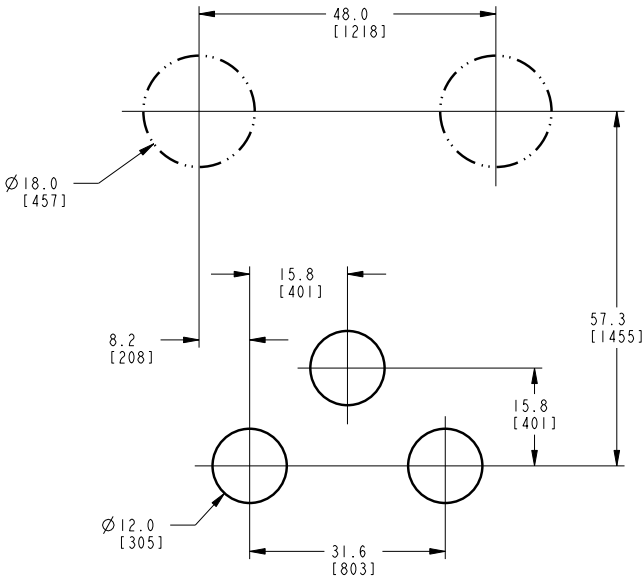
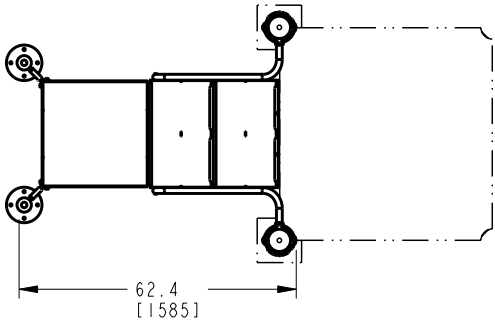
Elevation View
PM2006



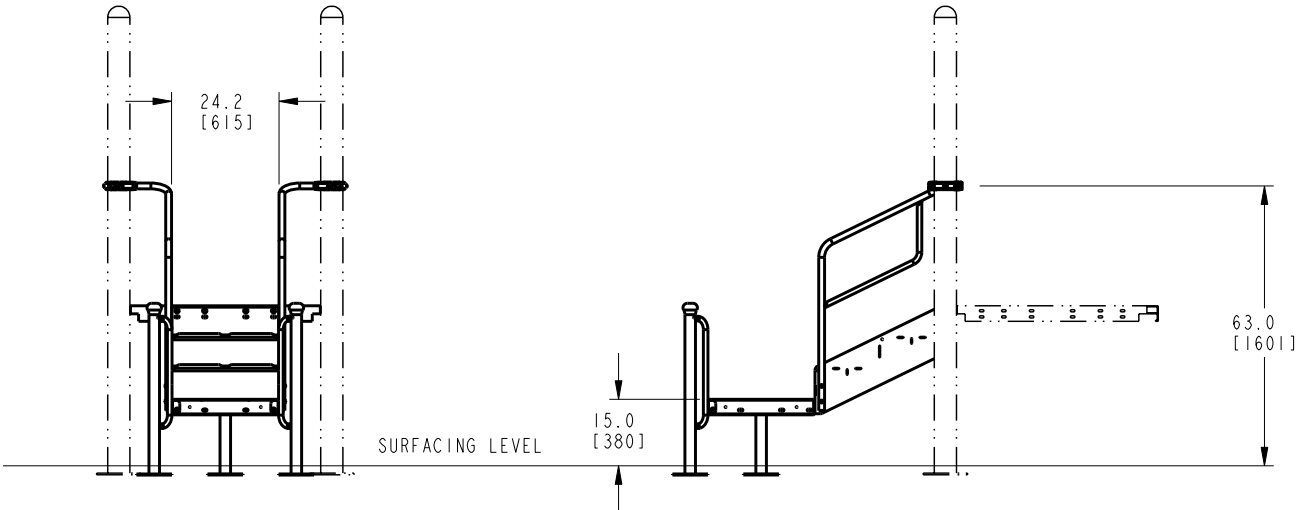
Installation Instructions

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

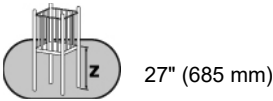
Top View



Footing Diagram



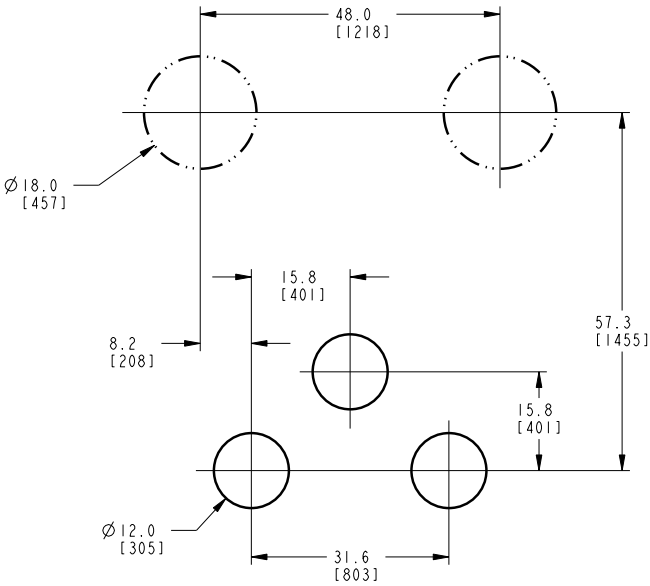
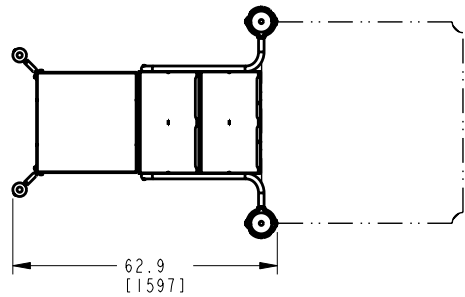
Elevation View
PM2006S



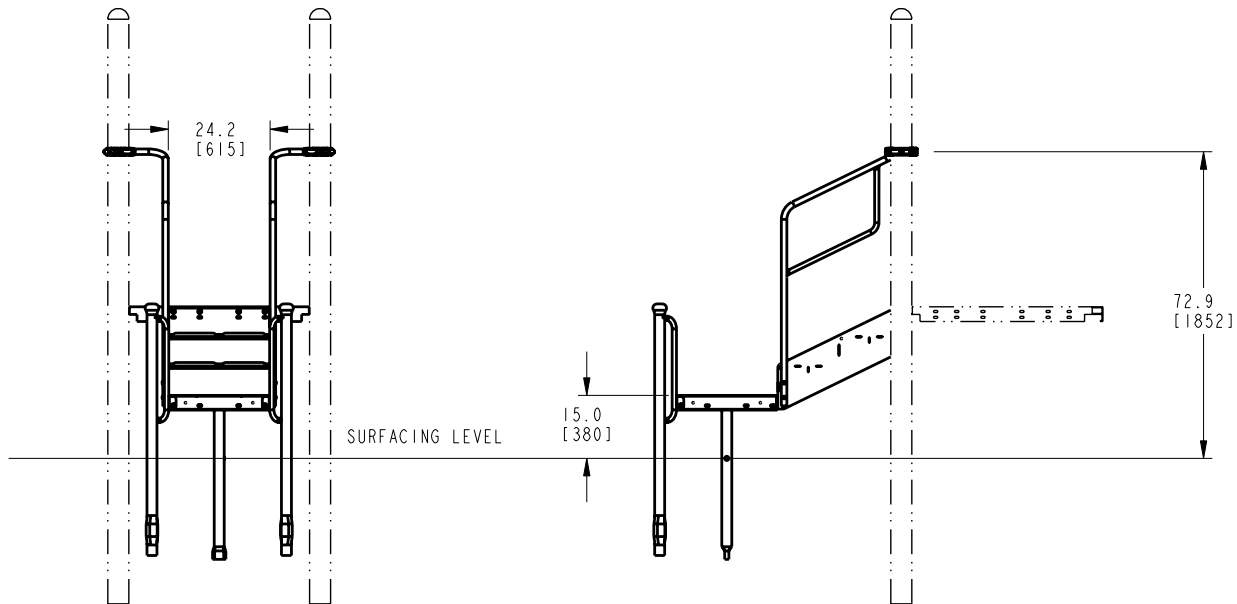
Installation Instructions

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

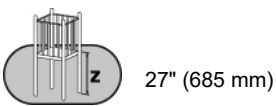
Top View



Footing Diagram



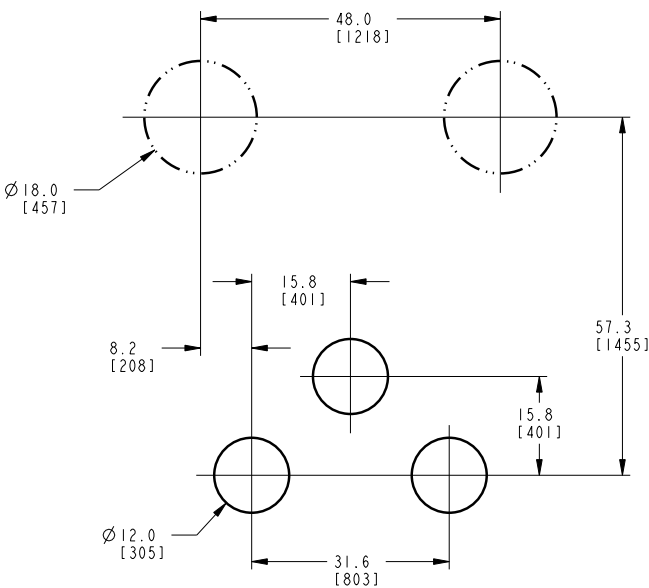
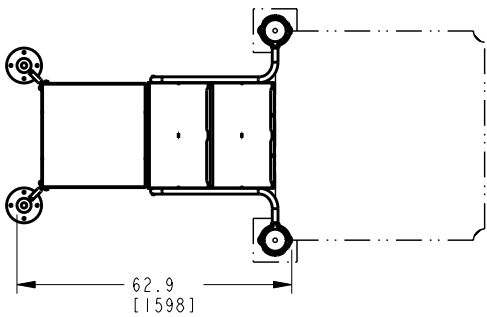
Elevation Views
PM2007



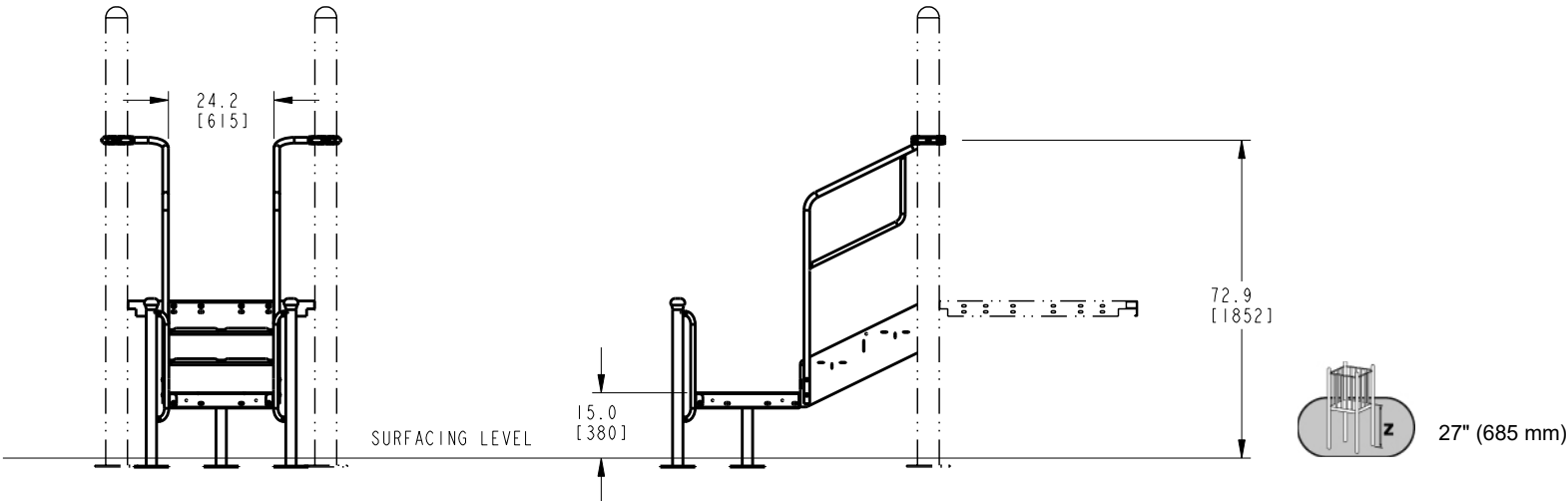
Installation Instructions

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

Top View



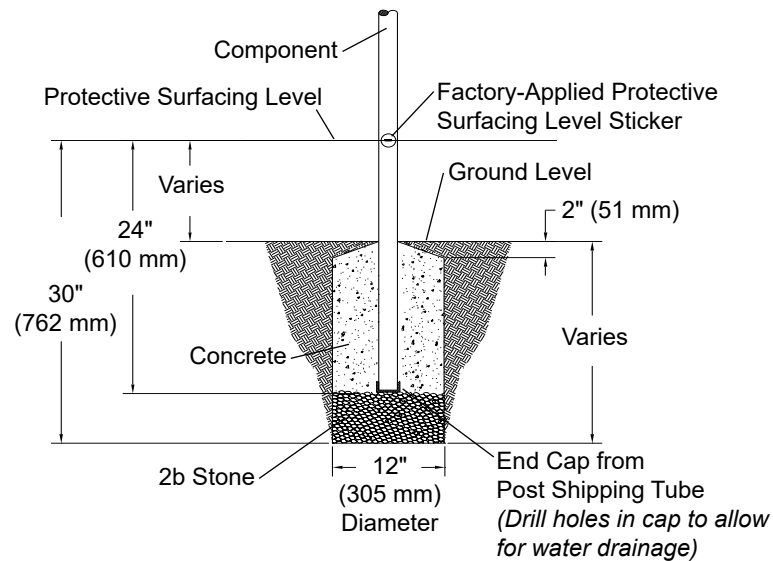
Footing Diagram



Elevation Views
PM2007S



Installation Instructions

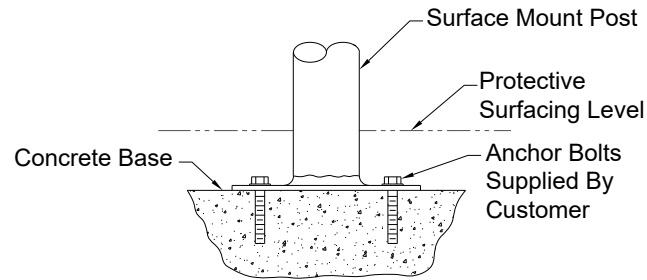


Component Footing Detail (ASTM/CSA)

FOOTING NOTES

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

Installation Instructions



Surface Mount Footing Detail

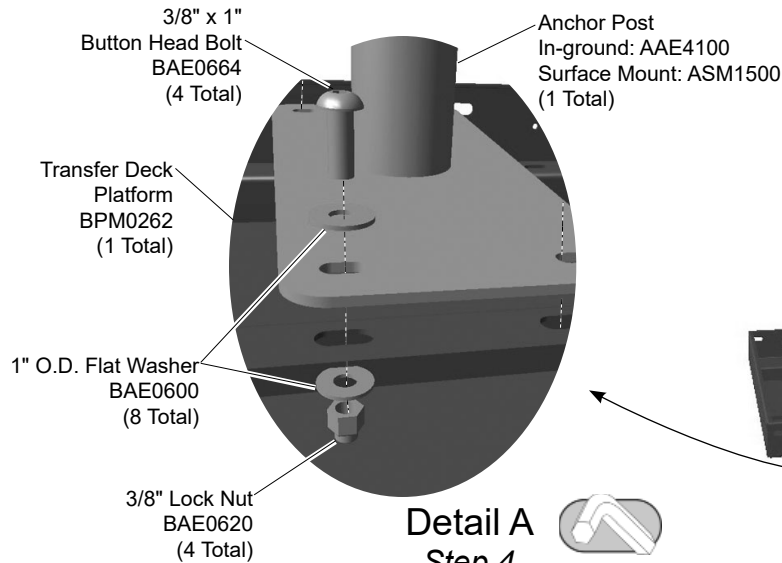
FOOTING NOTES

- All support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in [Handbook for Public Playground Safety](#) published by U. S. Consumer Product Safety Commission.

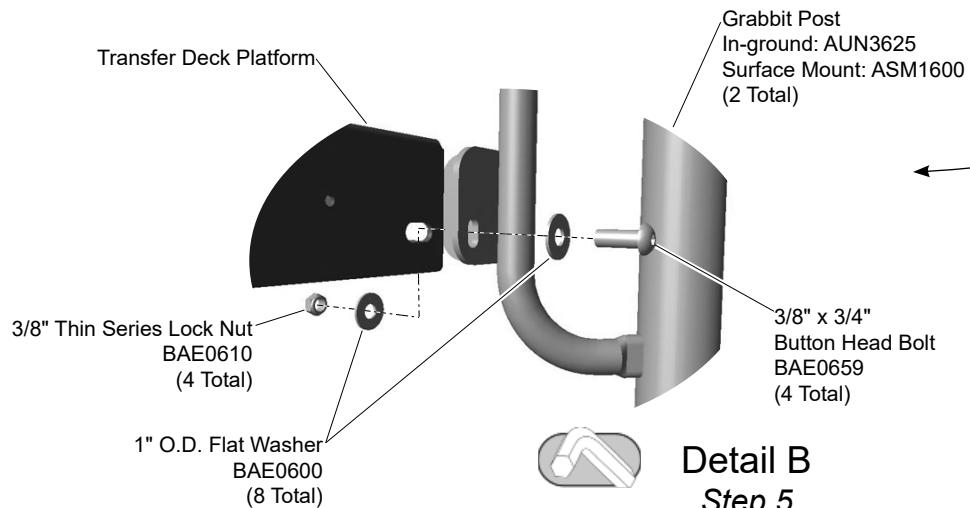
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

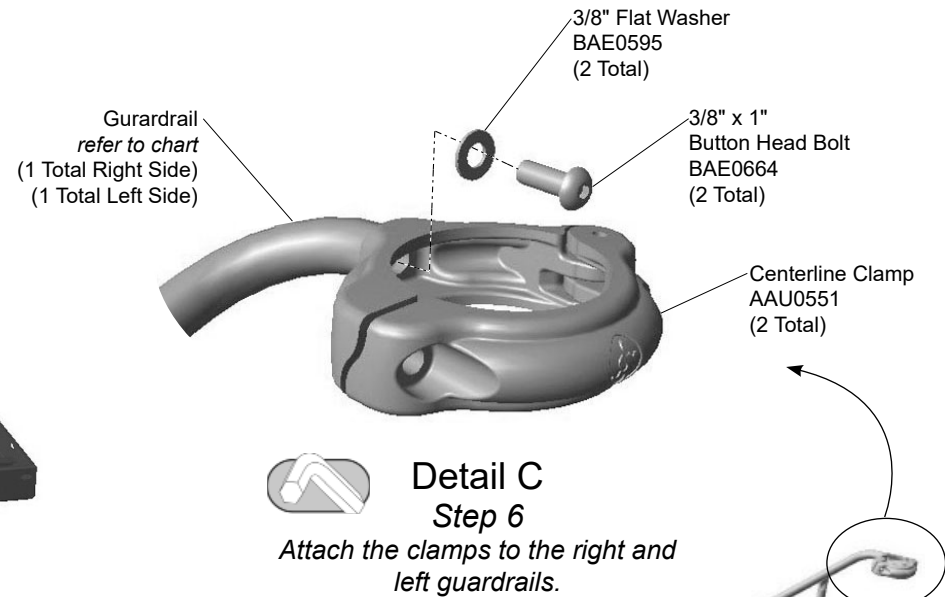
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 11.



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



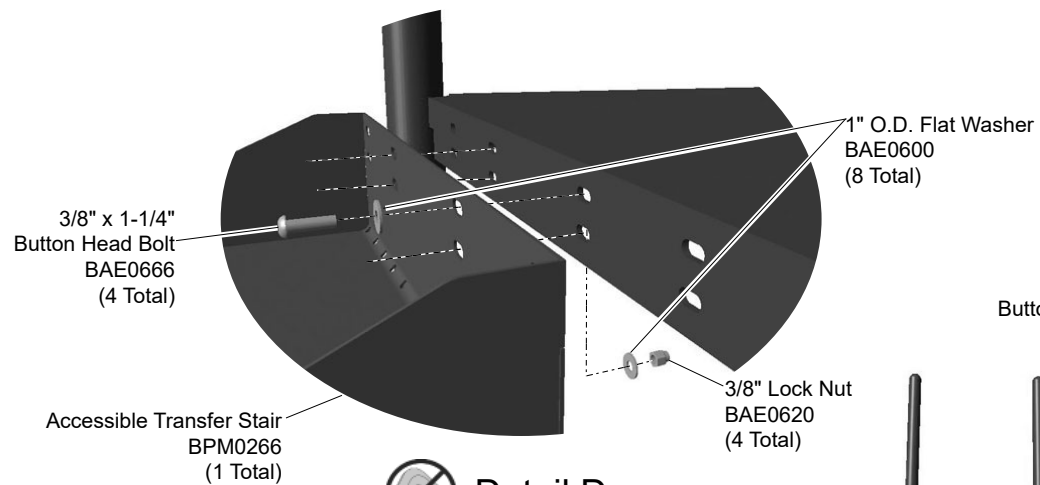
Detail B
Step 5
Attach the grabbit post to the platform.



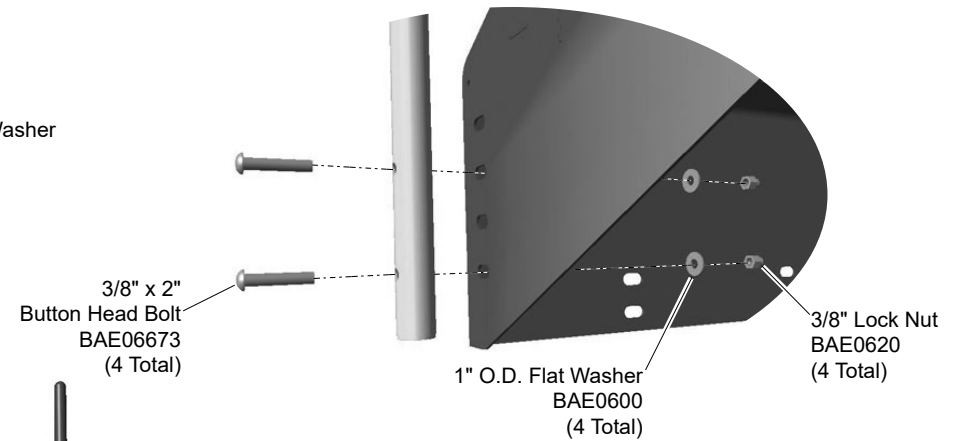
Detail C
Step 6
Attach the clamps to the right and left guardrails.

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

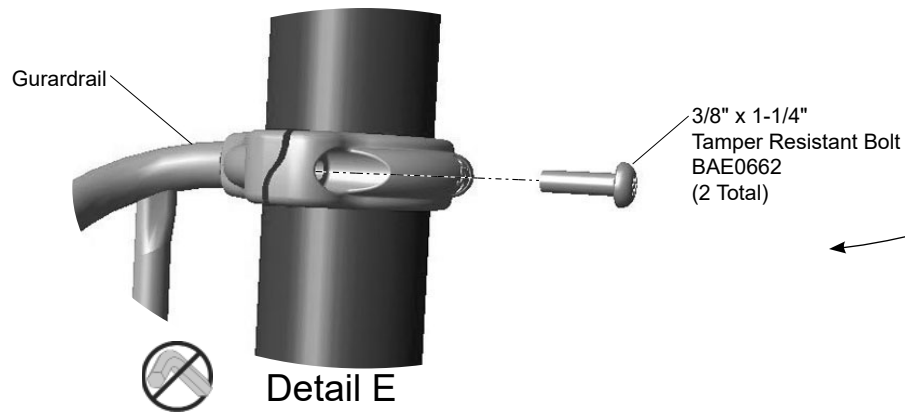
Installation Instructions



Detail D
Step 7
Attach the stair to the deck.

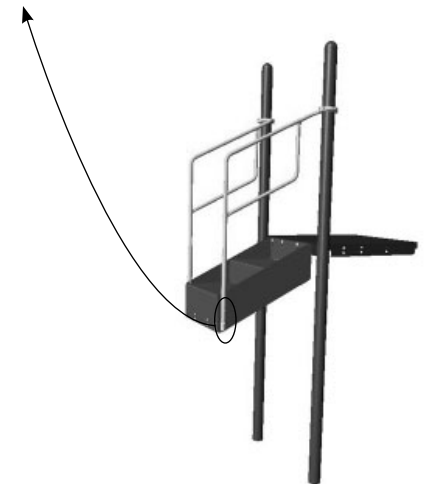
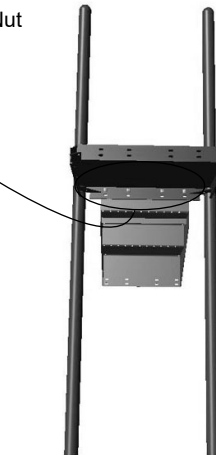


Detail F
Step 9
Attach the guardrails to the stair.

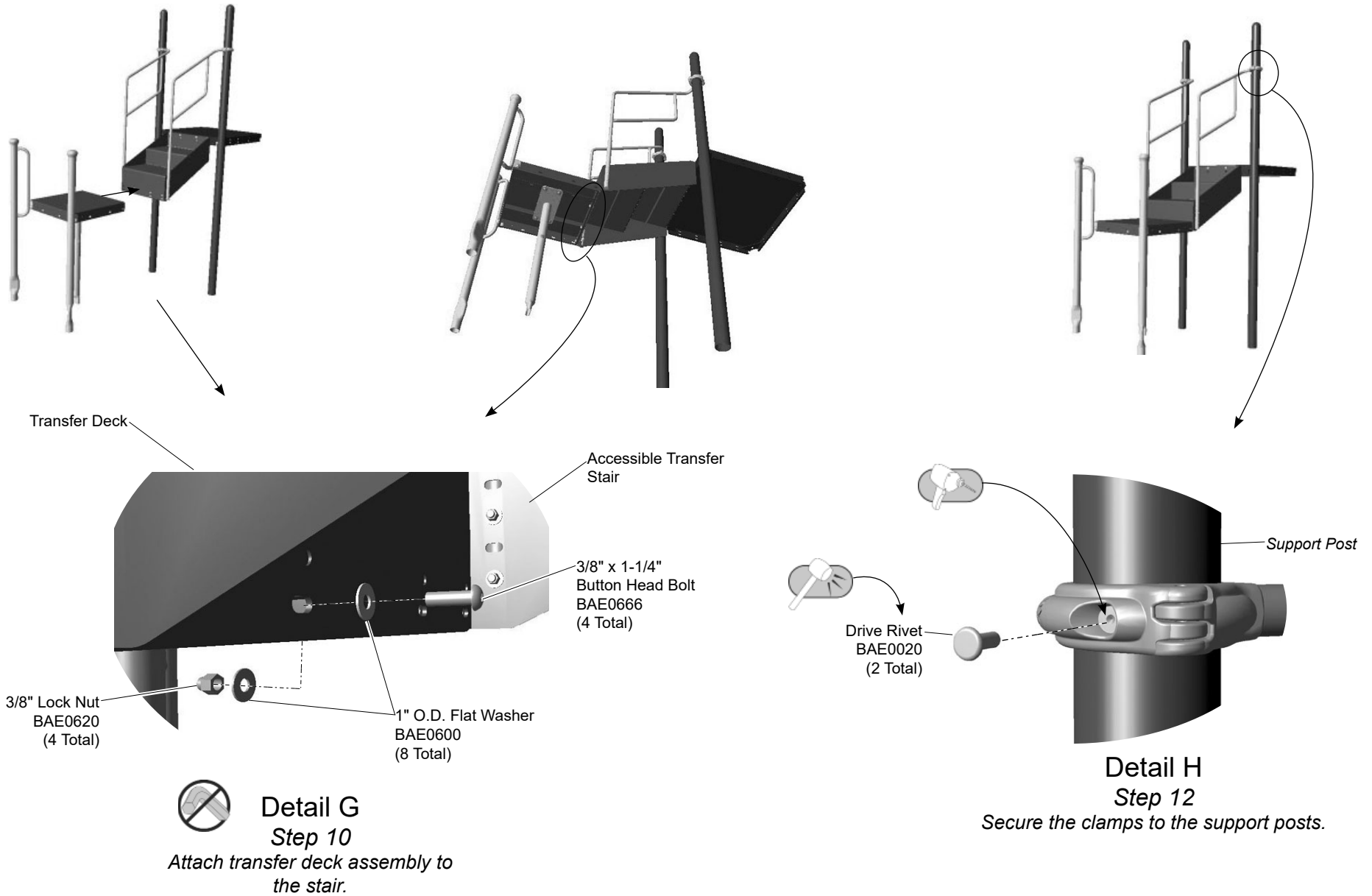


Detail E
Step 8

Attach the guardrails to the support posts.



Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Footing Details** on pages 6 and 7 of this installation document.

Attach the anchor post to the transfer deck.

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

Attach grabbites to transfer deck.

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

Attach the clamps to the guardrails.

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

Attach the stairs to existing support deck.

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

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

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

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

Attach guardrails to the support posts.

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

Attach guardrails to the stair.

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

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

Attach transfer deck assembly to the stair.

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

Final Details.

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

Torque Specifications:

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

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

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

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

Installation Instructions

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

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



Bill of Materials

ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBL COATED TRANSFER w/SLOTS	1

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

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBLE COATED TRANSFER w/SLOTS	1

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

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BAE0663	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSIBLE COATED TRANSFER w/SLOTS	1





Assembly View


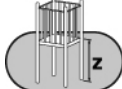

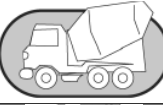



Installation Instructions

Playmakers® Model PM2805
Entry Support Bracket

Installation Preparation

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

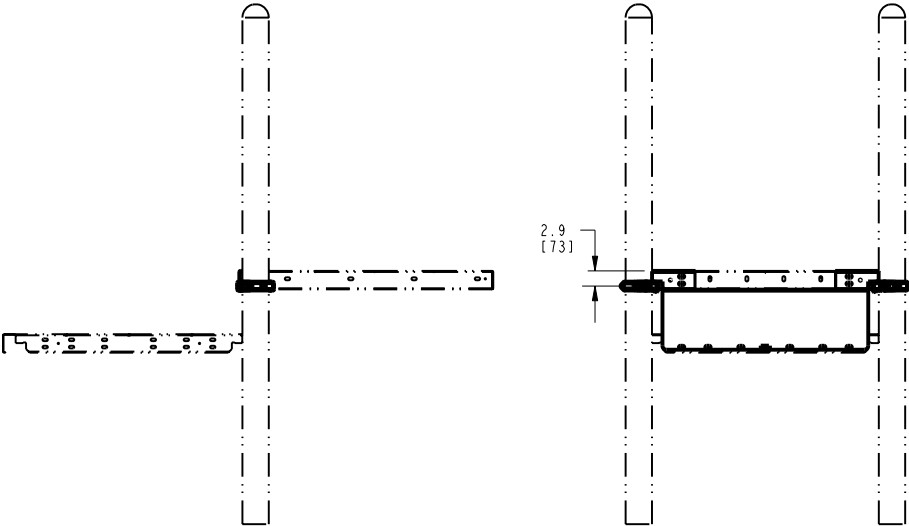
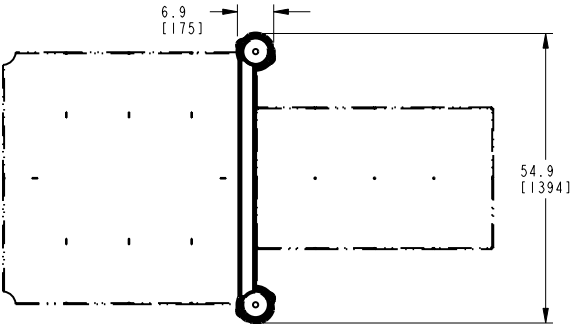
ICON KEY

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

Installation Instructions

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

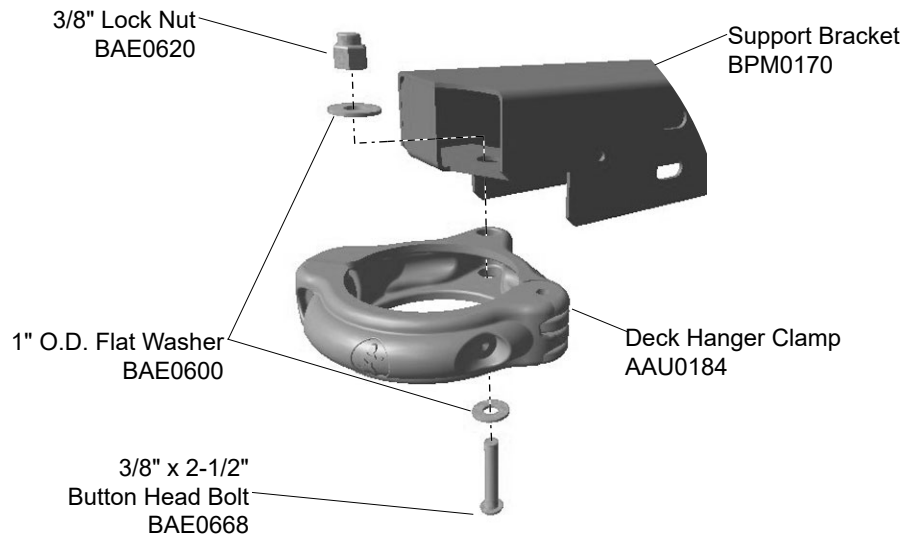
Top View



Elevation Views

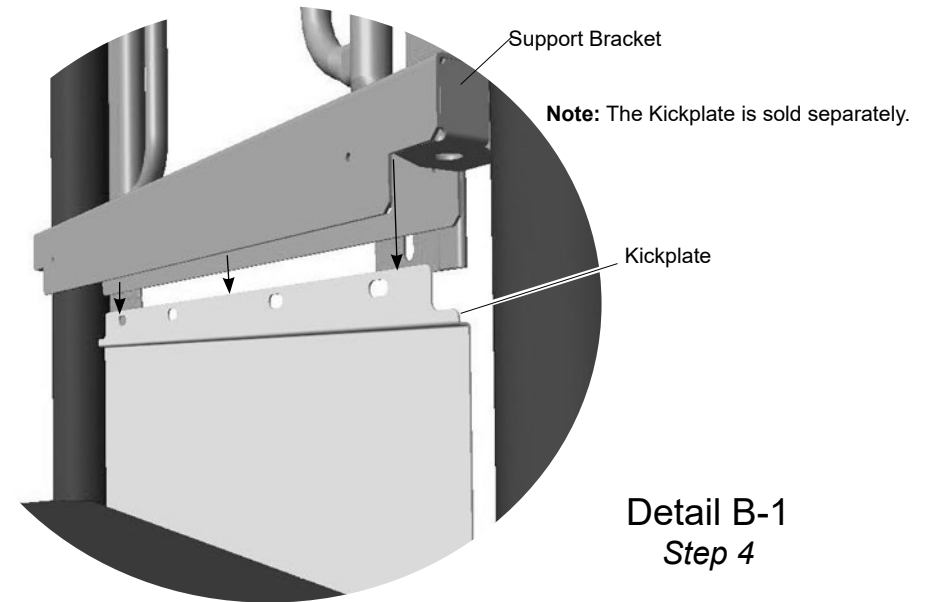
Installation Instructions

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

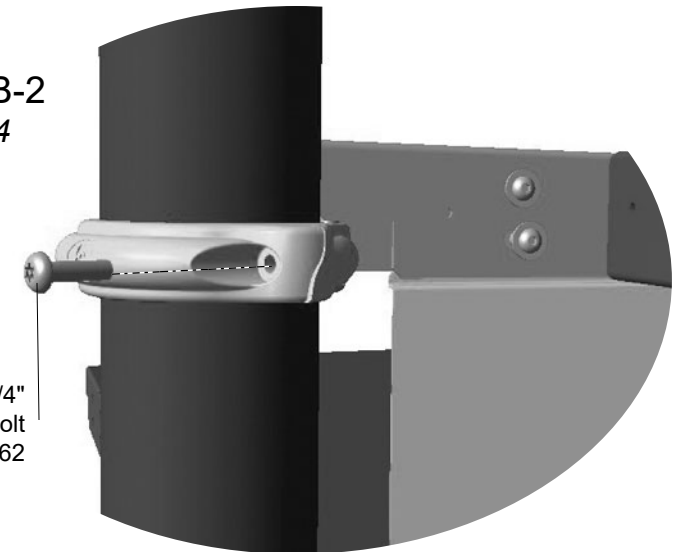
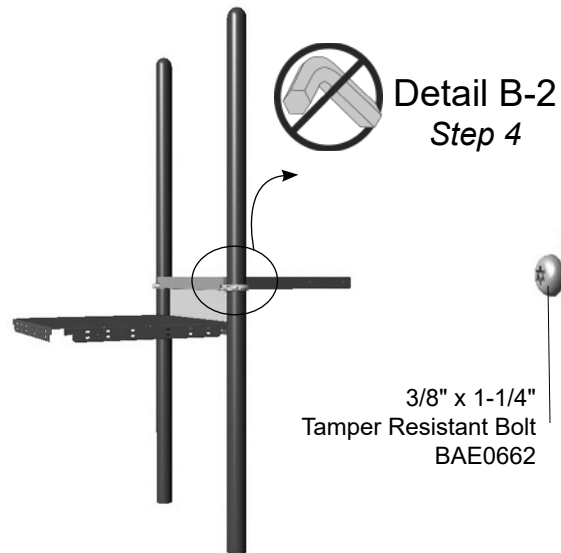


Detail A
Step 3

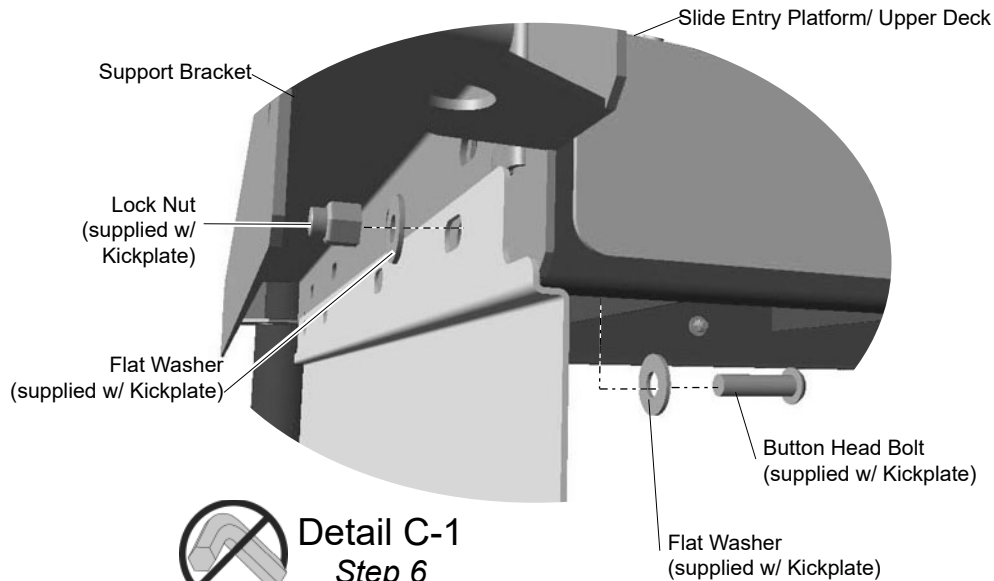
Detail A
Step 3



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

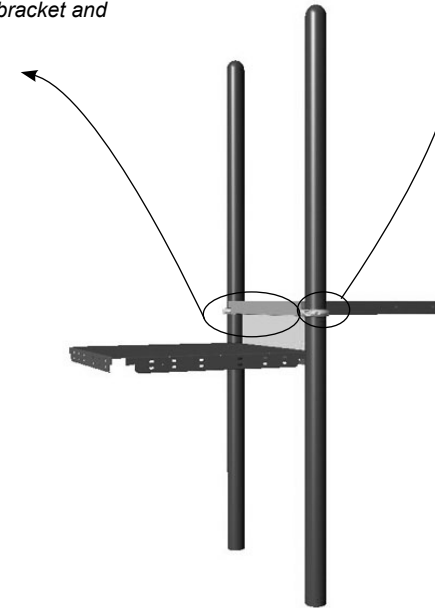
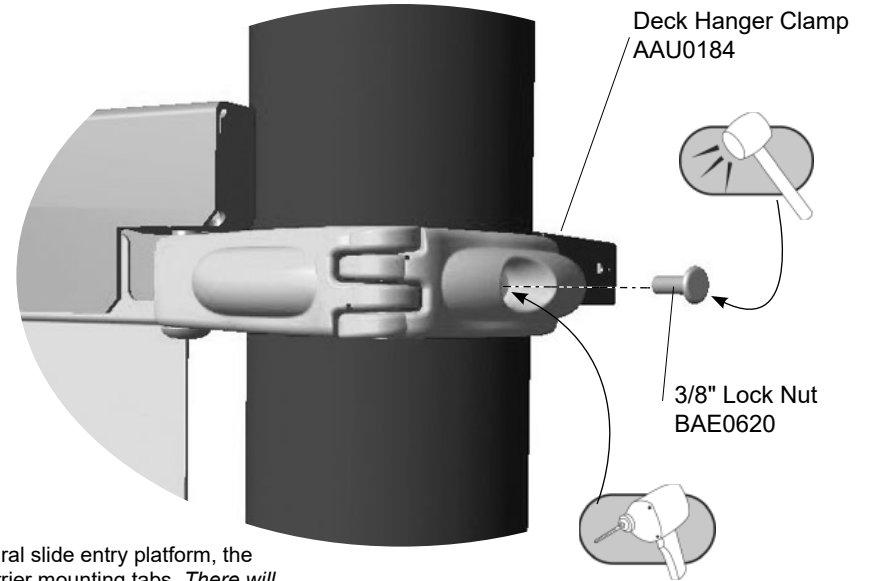
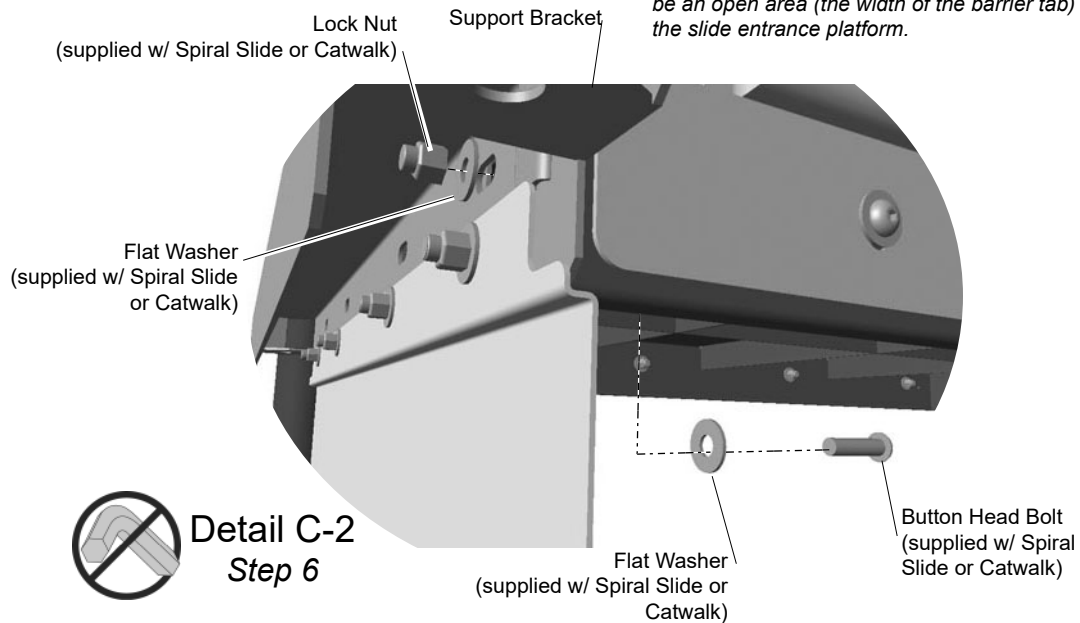


Installation Instructions



Note: The Kickplate is sold separately.

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



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the deck clamps to the Entry Support Bracket.

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

Attach the bracket assembly to the posts.

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

Note: The Kickplate is sold separately.

Spiral Slide/Catwalk Attachment:

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

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

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

Final Details.

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

Torque Specifications:

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

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

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

PM2805 - ENTRY SUPPORT BRACKET

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

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Assembly View (representative model)

Job Description	Installation Time
Slide Entrance & Canopy assembly	1 hour
Excavate footing holes (in-ground only)	0.5 hour per hole
Section to Section connection	0.25 hour
Slide / Exit Support Post attachment	0.25 hour per post

Installation Instructions

Playmakers® Models PM3206 and PM3206S

Slither Slide No.2

In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults

Installation Time: refer to the table at left

Concrete Required (per in-ground support only):


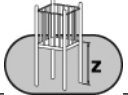

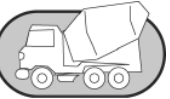
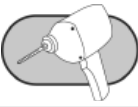

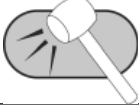
..... 0.03 cubic yard (0,02 cubic meters)

Use Zone: Refer to Master Drawing

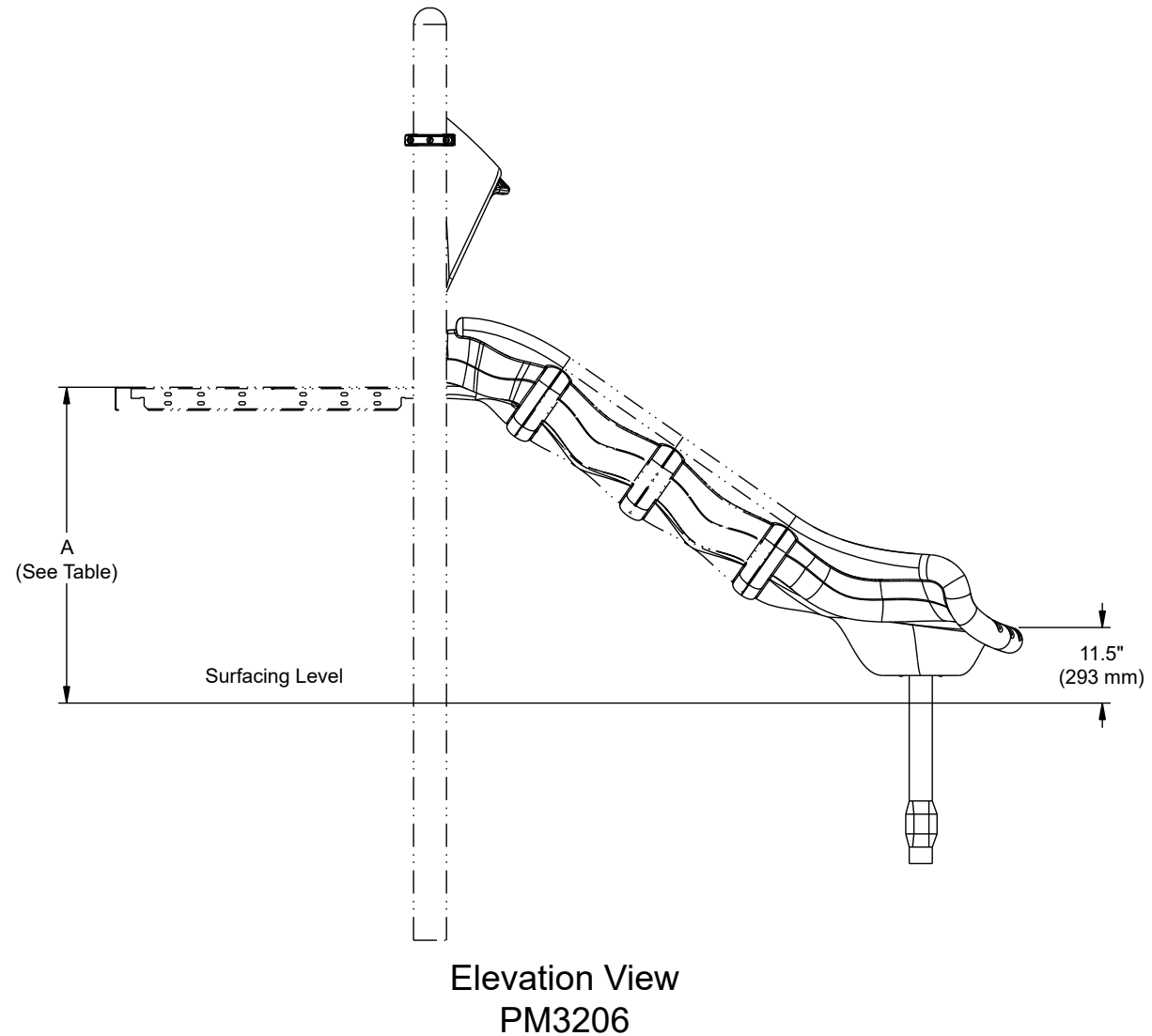
User Group Age (years): 48": ASTM/CSA: 2-12, EN: 2-14

..... 60"-108": ASTM/CSA: 5-12, EN: 6-14

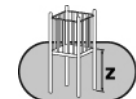
ICON KEY

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

Installation Instructions



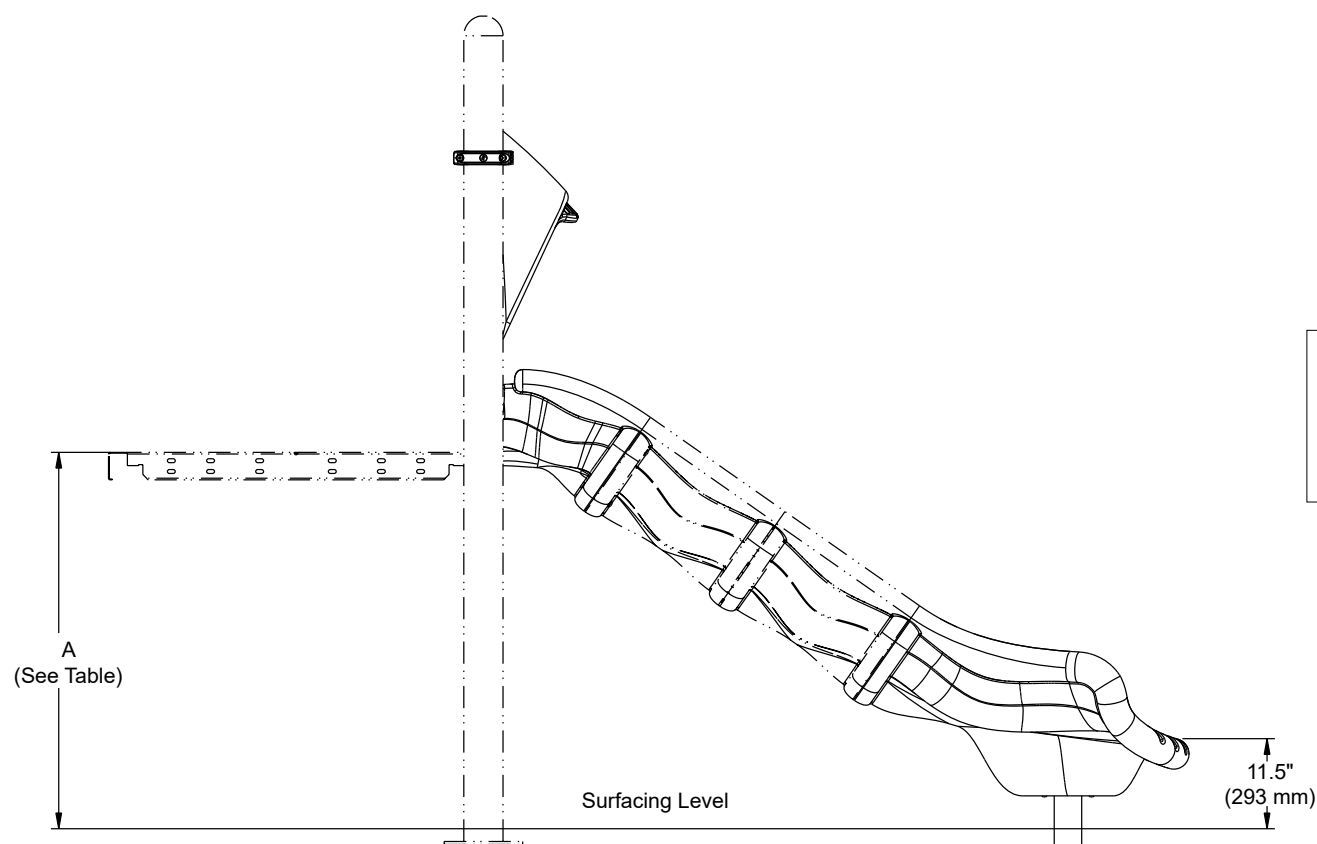
Note: The slide shown is a representation only and may not be your slide configuration. Refer to the slide detail drawing accompanying the master composite drawing for configuration and specific numbers of slide sections and support posts.



(A) Deck Height	Critical Fall Height (EN)
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm
84" (2134 mm)	2135 mm
96" (2438 mm)	2440 mm
108" (2743 mm)	2745 mm

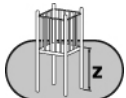


Installation Instructions



Elevation View
PM3206S

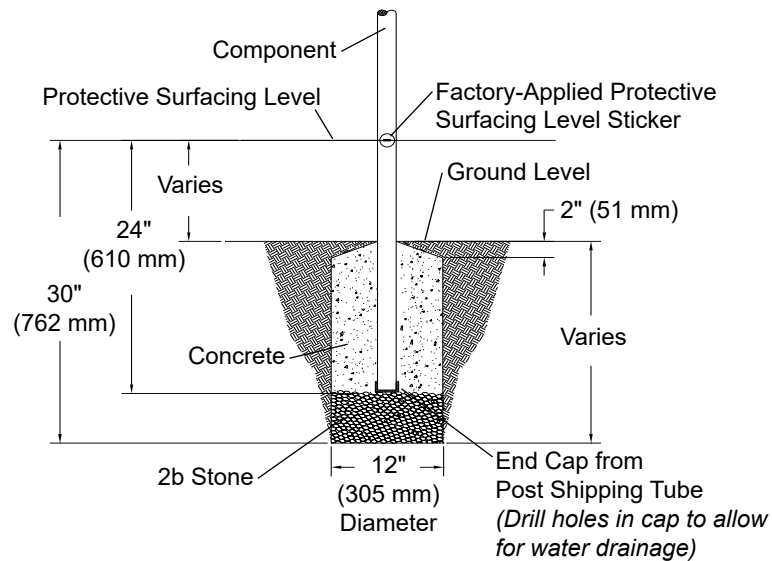
Note: The slide shown is a representation only and may not be your slide configuration. Refer to the slide detail drawing accompanying the master composite drawing for configuration and specific numbers of slide sections and support posts.



(A) Deck Height	Critical Fall Height (EN)
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm
84" (2134 mm)	2135 mm
96" (2438 mm)	2440 mm
108" (2743 mm)	2745 mm



Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

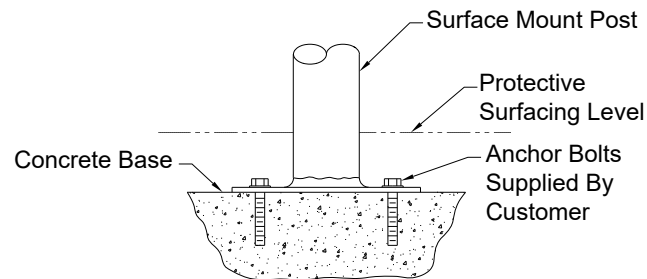
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

SURFACE MOUNT FOOTING DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

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

FOOTING NOTES: PIER TYPE SURFACE MOUNT

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

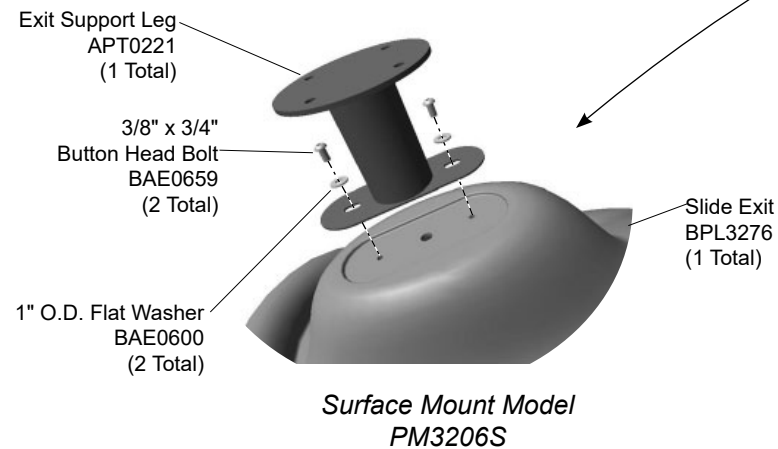
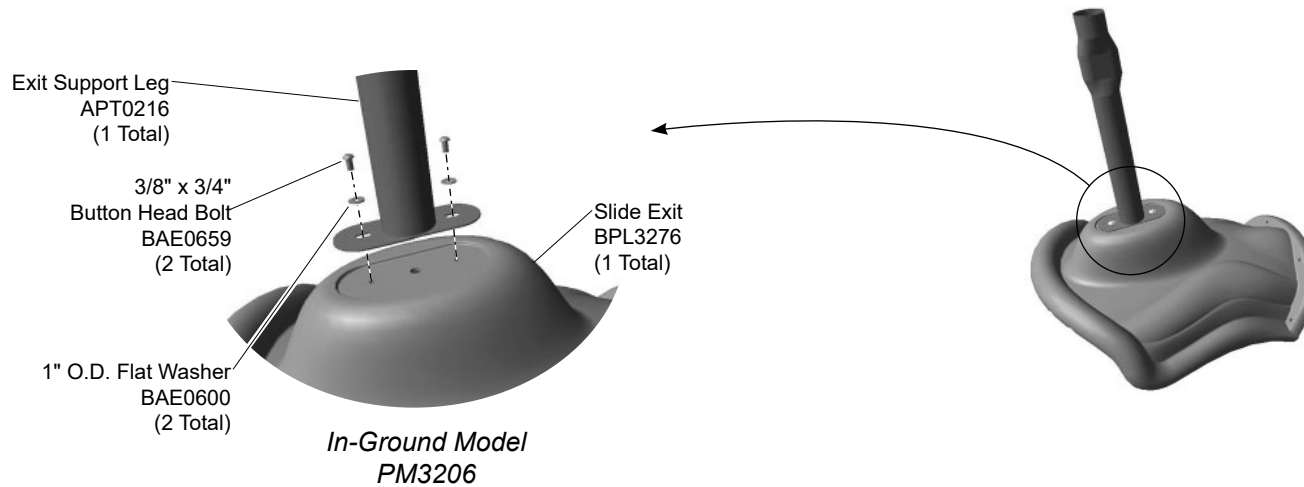
FOOTING NOTES: EXISTING CONCRETE SLAB TYPE SURFACE MOUNT

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

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

Installation Instructions

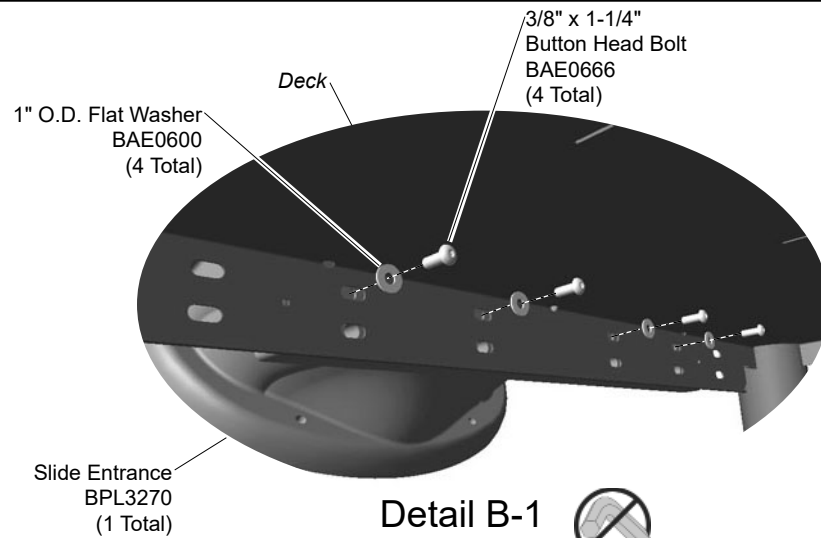
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 11.



Detail A Step 5

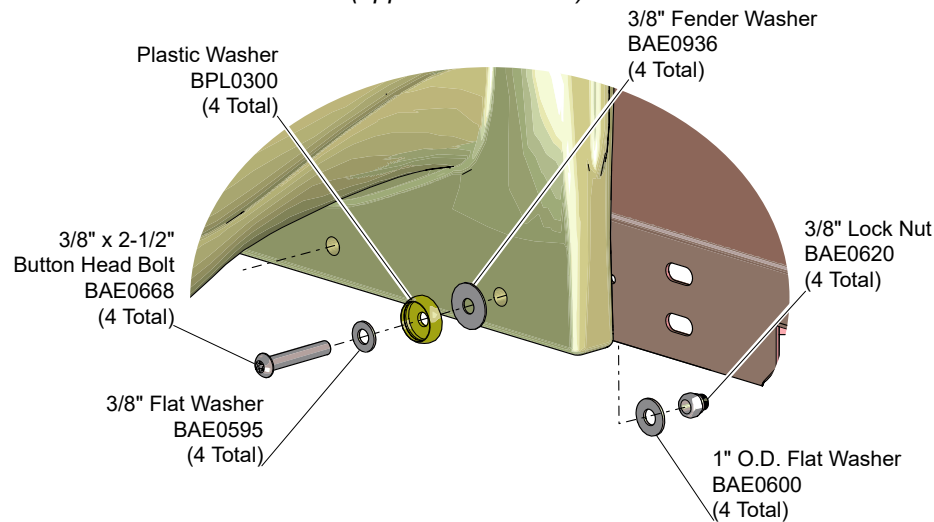
Attach the exit support leg to the slide exit.

Installation Instructions



Detail B-1
Step 6

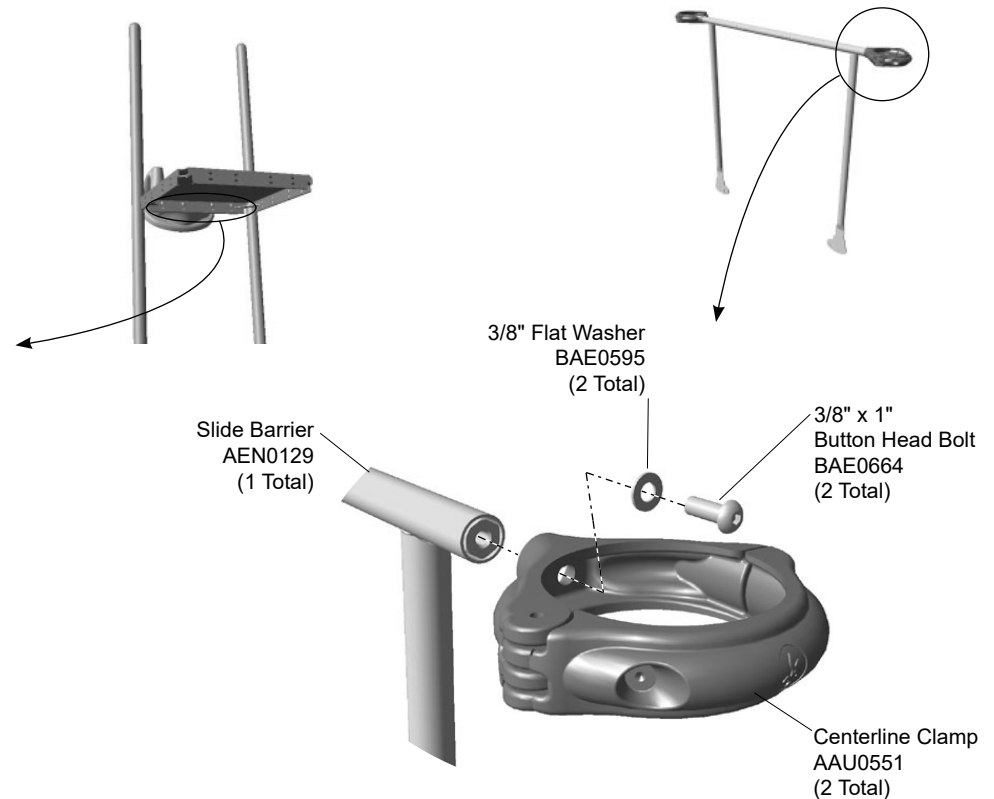
*Attach the slide entrance to the deck
(upper connections)*



Detail B-2
Step 7

*Attach the slide entrance to the deck
(lower connections)*

Note: Do not install bolt caps over the plastic washers until structure is complete and footed.

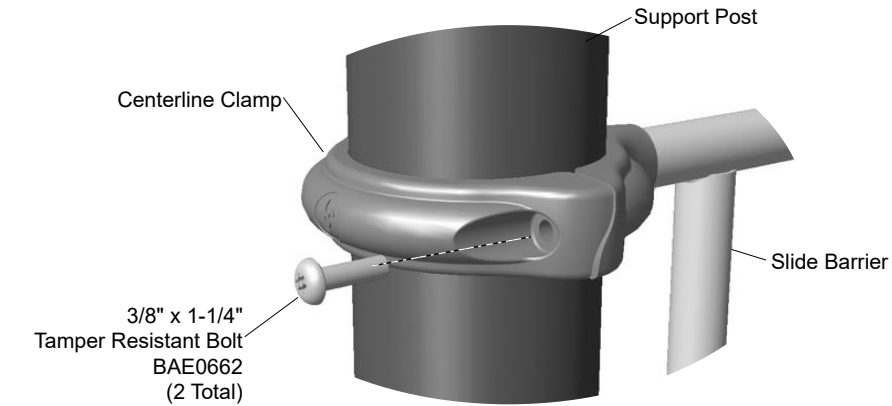


Detail C
Step 8

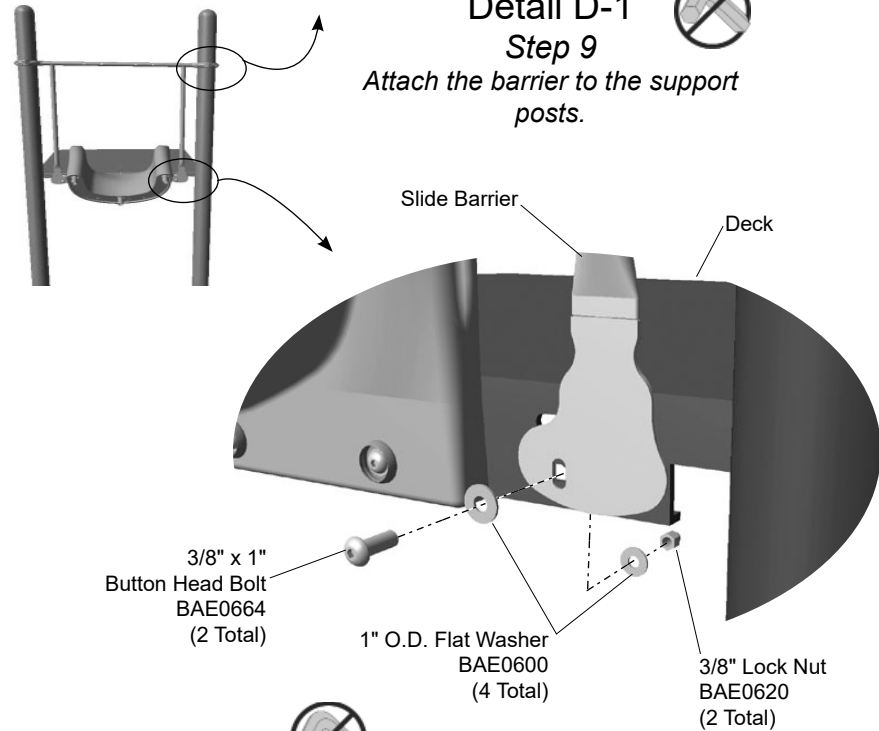
*Attach the clamps to the slide
barrier top rail.*



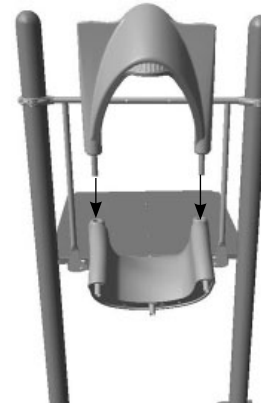
Installation Instructions



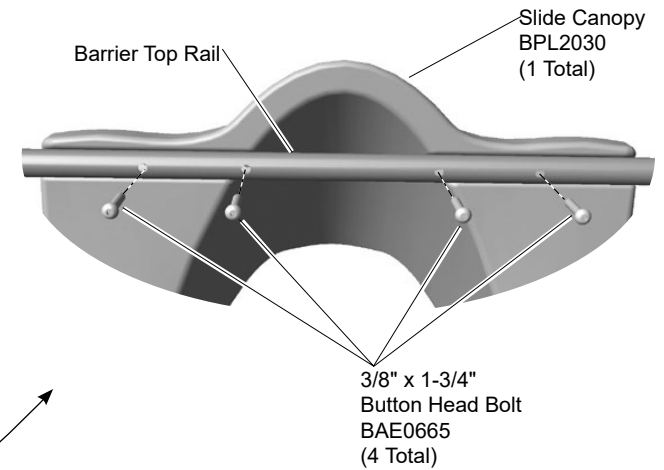
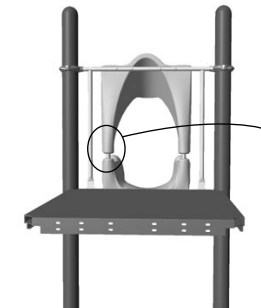
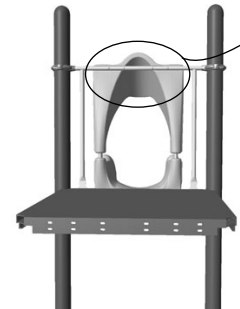
Detail D-1
Step 9
Attach the barrier to the support posts.



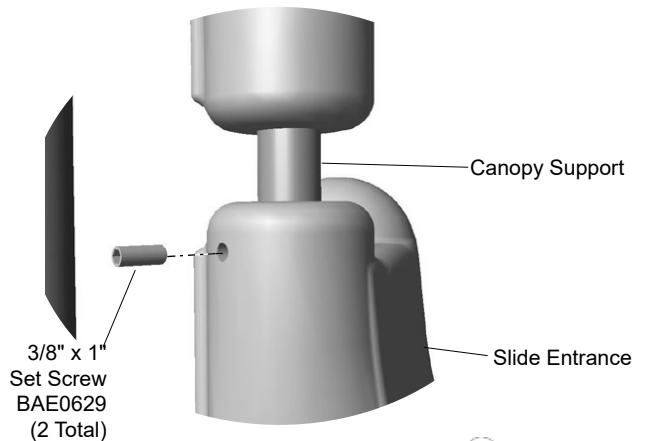
Detail D-2
Step 10
Attach the barrier to the deck.



Detail E-1
Step 11



Detail E-2
Step 11
Attach the slide canopy to the canopy top rail.



Detail F
Step 12
Secure the slide canopy to the slide entrance.

Installation Instructions

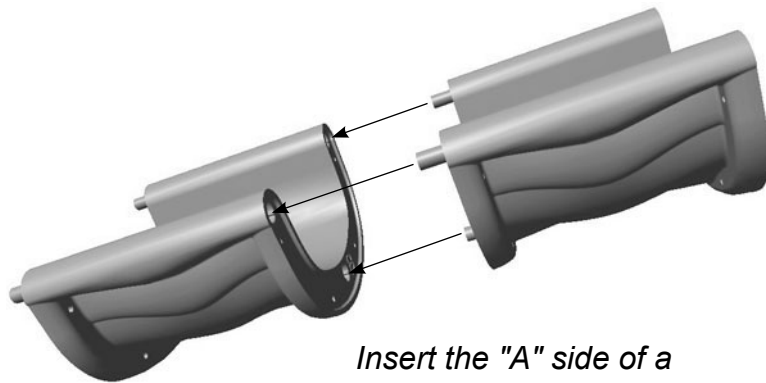


"B" Side

"A" Side

Lay the slide out on the ground in the correct configuration prior to connecting the sections. Start at the top of the slide and work down.

Note: Leave both bottom holes open at the appropriate location for support post placement. Refer to the drawings showing the slide configuration.



Insert the "A" side of a section into the "B" side of the next section.

Slide Section Orientation

Slide Section	Part Number	ZZ Number
Entry	BPL3270	PM3206(S)
Straight	BPL3271	UN3207
Right turn	BPL3272	UN3208
Left turn	BPL3273	UN3209
Right 120°	BPL3274	UN3217
Left 120°	BPL3275	UN3275
Exit	BPL3276	PM3206(S)
Roller	ASY0254	UN3219



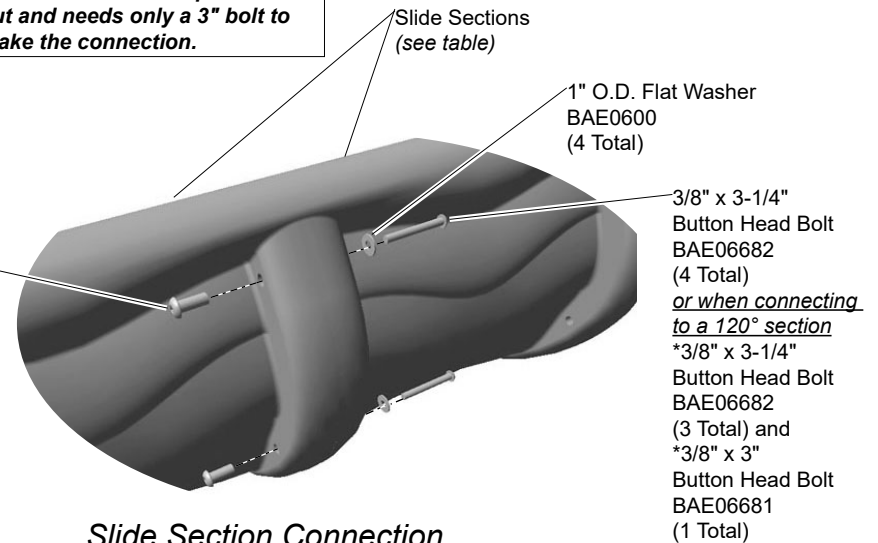
*The upper inside hole on the 120° section contains a threaded insert that doesn't require a barrel nut and needs only a 3" bolt to make the connection.

3/8" Barrel Nut
BAE0632
(4 Total)

*(3 Total when attaching to a 120° section)

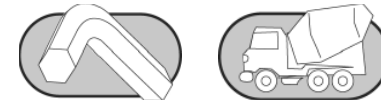
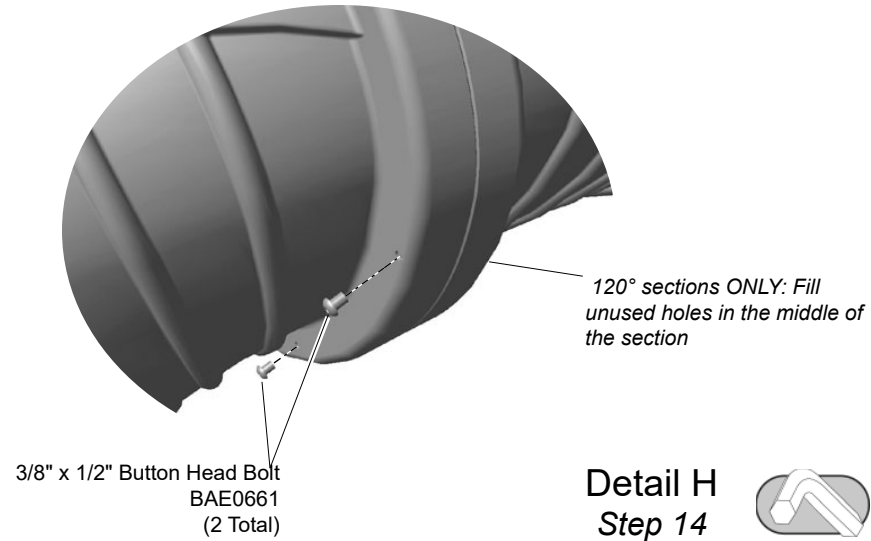
Detail G Step 13

Attach the slide sections together.



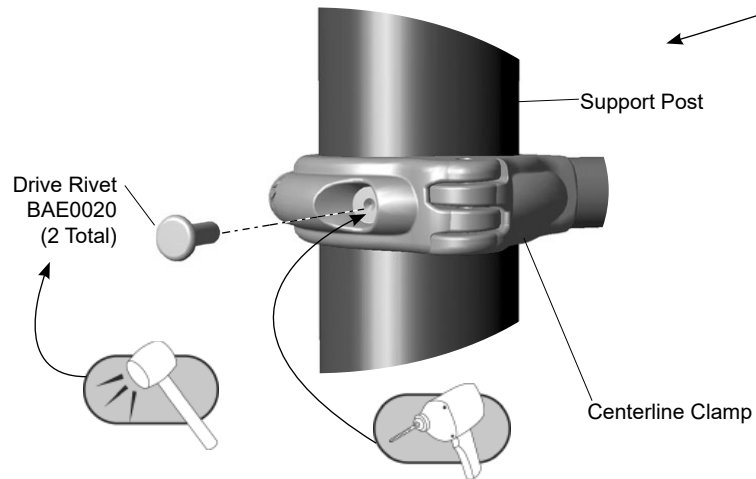
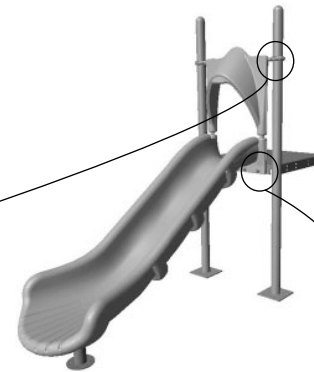
Slide Section Connection Reference

Installation Instructions



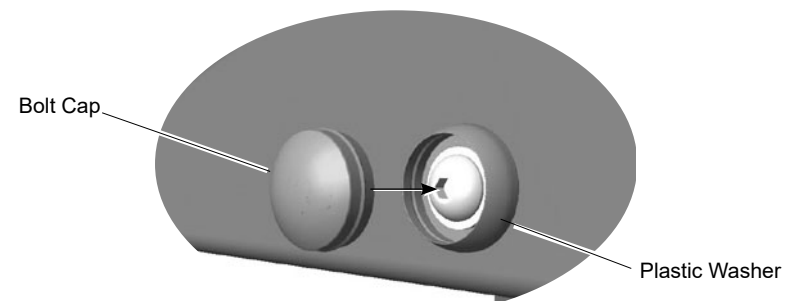
Step 15

Detail H
Step 14
(if applicable)



Detail I
Step 16

Secure the clamps to the support posts.



Detail J
Step 17
(refer to Detail B-2 also)

Installation Instructions

This is a composite installation instruction for both an in-ground and surface mount slither slide that is attached to a deck.

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Lay the slide sections out on the ground in the order specified on the master layout diagram.

Important Notes:

- Each slide section has an 'A' and 'B' end. See **Slide Section Orientation**. The 'A' end contains the protruding tubes and should be positioned *facing* toward the slide exit.
- The frame of reference for the curved sections is looking *down* from the deck to the slide exit.
- Assemble the slide from the top down.

Attach the exit support leg to the slide exit.

Step 5: Attach the exit support leg to slide exit. See **Detail A**. Place the exit support leg into the indentation under the slide exit. Fully tighten the connections.

Attach the slide entrance to the deck.

Step 6: Attach the slide entrance to the deck. See **Detail B-1**. Select the slide entrance and the appropriate hardware. Position the slide entrance against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 7: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 8: Connect the clamps to the barrier. See **Detail C**. Place a clamp against each end of the barrier and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 9: Attach the barrier to the posts. See **Detail D-1**. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 10: Attach the bottom of the barrier to the deck. See **Detail D-2**. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide entrance.

Step 11: Position and attach the canopy. See **Details E-1 and E-2**. Place the canopy above the slide entrance and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Attach the top rail to the canopy as shown. If there is a clamp conflict the top rail can be moved up to 40" (1016 mm).

Step 12: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Thread each screw into the slide until the screw is tight against the canopy supports.

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

Installation Instructions

Assemble the slide.

Lay the slide sections out on the ground in the correct configuration and orientation. Place the support posts beside the appropriate joint. Refer to the master drawing for the configuration and order of sections.

Step 13: Attach the slide sections together. See **Detail G**. Starting at the slide entrance, select the first slide section and the appropriate hardware. Fit the first section into the entry section, and attach as shown. Reference the **Slide Section Connection Reference** for all section to section connections except when attaching a support post. If a support post will be attached to the joint, leave the bottom (2) two holes open. Block or brace the slide while assembling the remaining sections. Snug tighten the connections.

Important Note: Sections that attach to a 120° section will attach as shown in the **Slide Section Connection Reference** except that the *upper inside hole on the "B" side of the 120° section contains a threaded insert and will not require the barrel nut.*

Support Post Note: For slides attached to decks 60 in. or higher, support posts will be utilized to help support the slide. **Generally, a support post will be attached at the end of every three sections down the length of the slide starting with the slide entrance.** *Because of different slide configurations, you must reference the master layout drawing for the location and number of support posts that accompany your slide. The 120° sections have a middle seam that can accept a support post in some configurations. (See the installation instructions for the support post)*

Step 14: *(if applicable)* Fill in any open lower holes under the middle of the 120° sections. See **Detail H**. Select 3/8" x 1/2" button head bolts. Thread each bolt into an open hole. Fully tighten the connections.

Final Details.

Step 15: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. There should not be any measurable gaps between sections. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

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

60" - 108" Slides: The slide exit height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

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

Set Screws: Snug tighten and tighten an additional turn.

Step 16: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

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

Step 17: Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and J**. The bolt caps install more easily when they are warm.

Step 18: Apply the hood string entanglement warning label to the equipment at eye level.

Bill of Materials

PM - SLITHER SLIDE NO. 2 ENTRY / EXIT - PM3206 (IN-GROUND)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0632	NUT - 3/8"-16 x 1-1/4 BARREL w/PATCH	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	4
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL3270	SLIDE - SEGMENTED ENTRANCE	1
BPL3276	SLIDE - SEGMENTED EXIT	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM - SLITHER SLIDE NO. 2 ENTRY / EXIT - PM3206S (SURFACE MOUNT)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0221	POST - 3-1/2" O.D. x 6-3/4" SM EXIT SUPPORT	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0632	NUT - 3/8"-16 x 1-1/4 BARREL w/PATCH	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	4
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL3270	SLIDE - SEGMENTED ENTRANCE	1
BPL3276	SLIDE - SEGMENTED EXIT	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

UN - SLITHER SLIDE STRAIGHT SECTION - UN3207

PART NO.	DESCRIPTION	QTY.
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BPL3271	SLIDE - SEGMENTED STRAIGHT	1

UN - SLITHER SLIDE RIGHT SECTION - UN3208

PART NO.	DESCRIPTION	QTY.
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BPL3272	SLIDE - SEGMENTED RIGHT	1

UN - SLITHER SLIDE LEFT SECTION - UN3209

PART NO.	DESCRIPTION	QTY.
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4
BPL3273	SLIDE - SEGMENTED LEFT	1

UN - SLITHER SLIDE 120° RIGHT SECTION - ZZUN3217

PART NO.	DESCRIPTION	QTY.
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	3
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	1
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	3
BPL3274	SLIDE - 120 DEGREE RIGHT TURN	1

UN - SLITHER SLIDE 120° LEFT SECTION - ZZUN3218

PART NO.	DESCRIPTION	QTY.
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	3
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	1
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	3
BPL3275	SLIDE - 120 DEGREE LEFT TURN	1

UN - SLITHER SLIDE ROLLER SECTION - ZZUN3219

PART NO.	DESCRIPTION	QTY.
ASY0254	SLIDE - SEGMENTED ROLLER SLIDE	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0632	NUT - 3/8"-16 x 1.25" BARREL w/PATCH	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4





Assembly View (representative model)

Installation Instructions

Playmakers® Models PM3537 and PM3537S


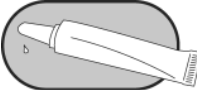

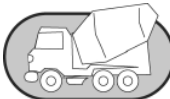
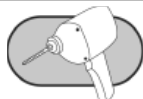

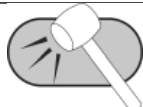
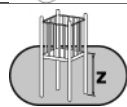
Nuvo™ 360° Spiral Slide

In-Ground and Surface Mount

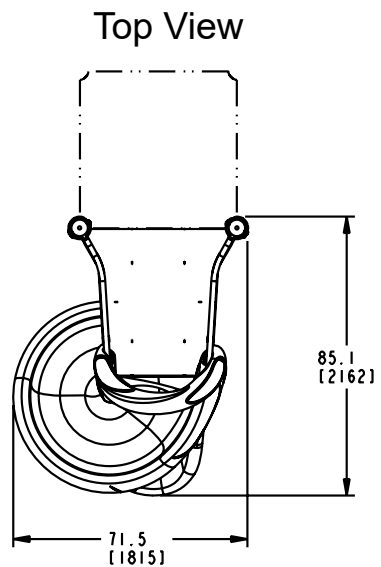
Installation Preparation

Recommended Crew: Four (4) adults
 Installation Time (in-ground): 6 man-hours
 Installation Time (surface mount): 5 man-hours
 Concrete Required: 0.15 cubic yard (0,11 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

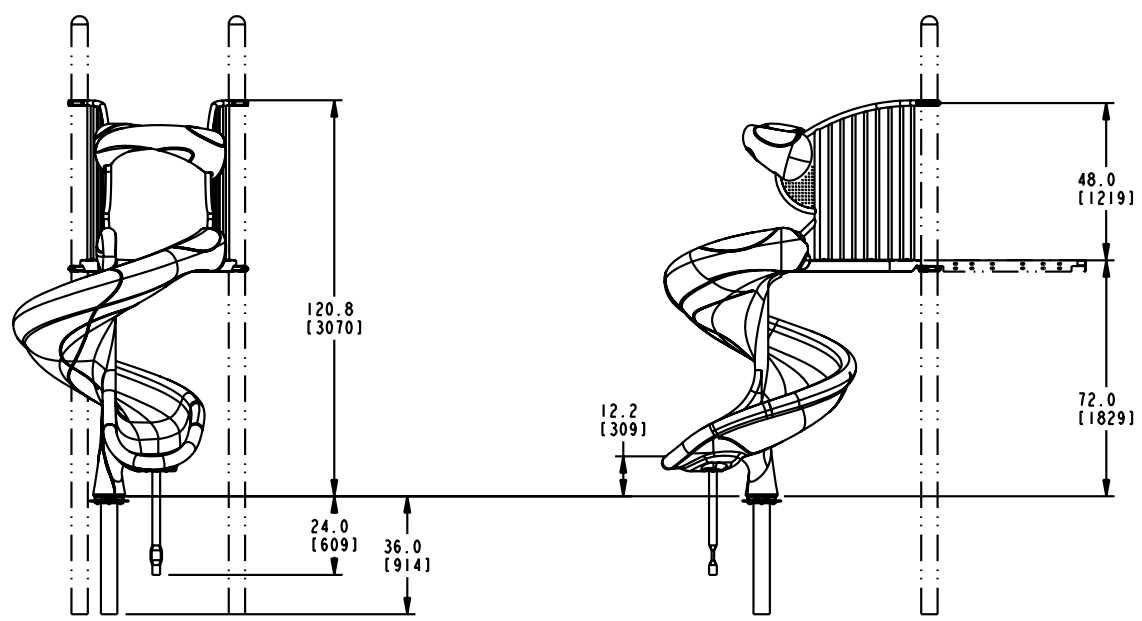
ICON KEY

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

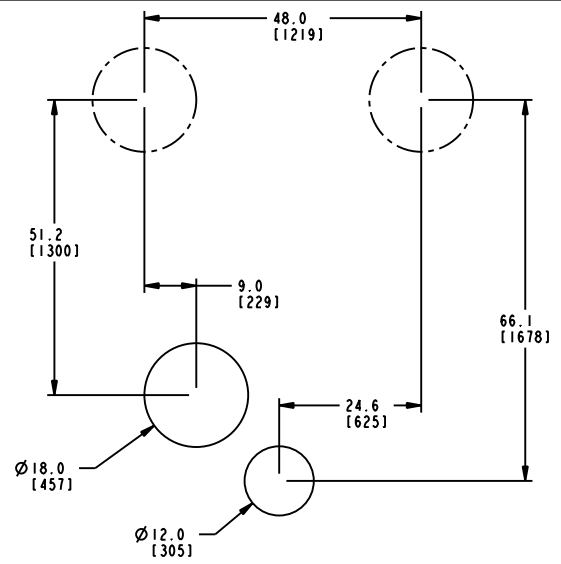
Installation Instructions



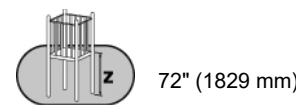
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



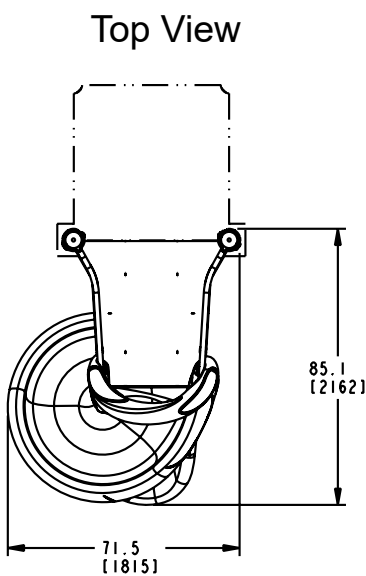
Elevation Views
PM3537



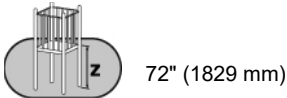
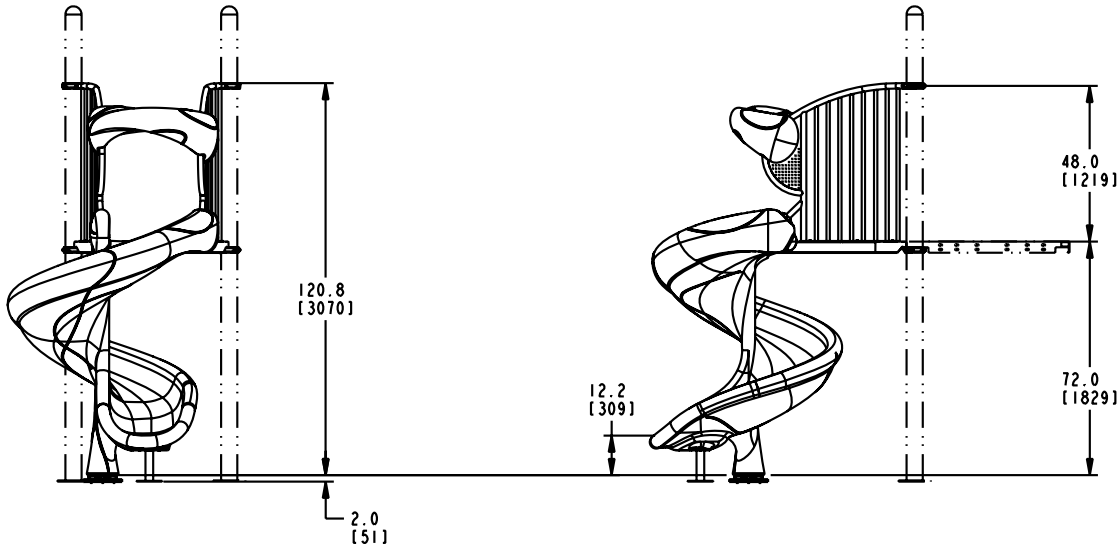
Footing Diagram
(Both Models)



Installation Instructions



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

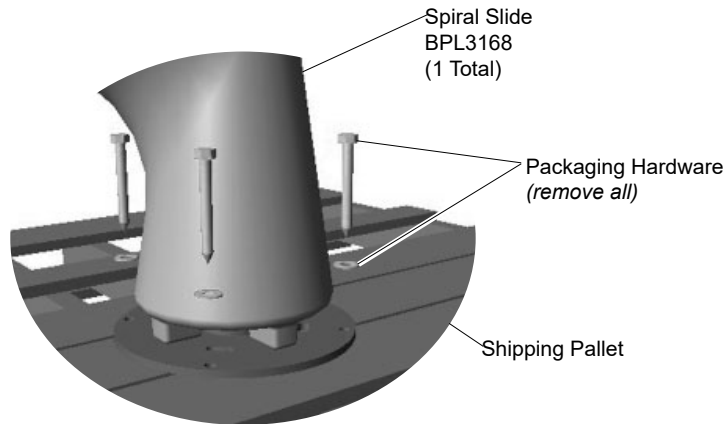


Elevation Views
PM3537S



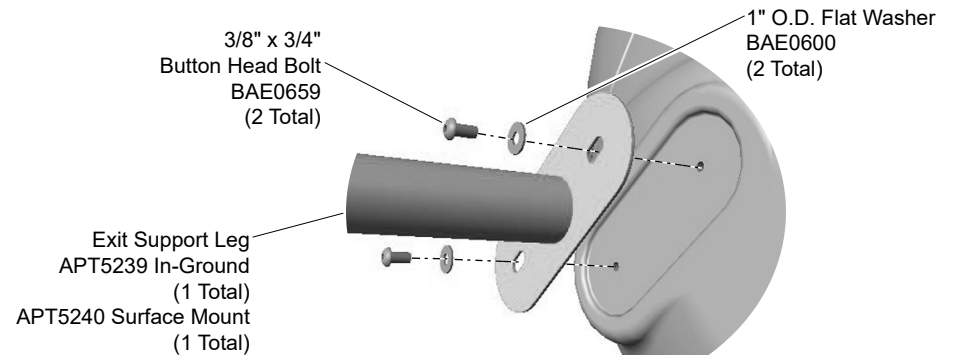
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 11.

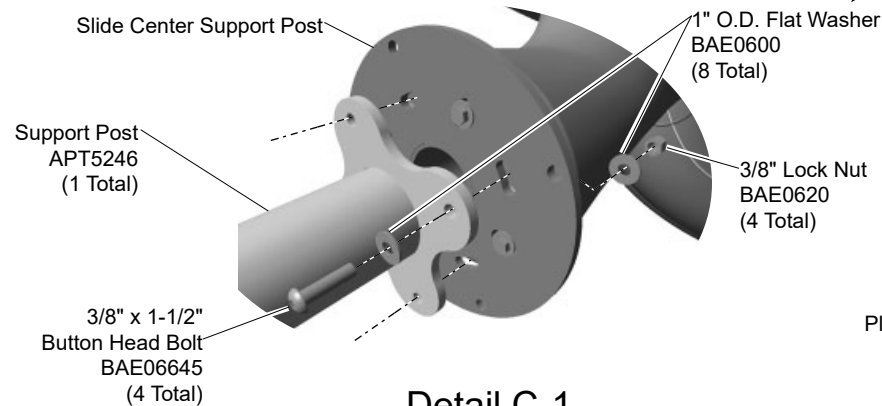


Detail A
Step 4

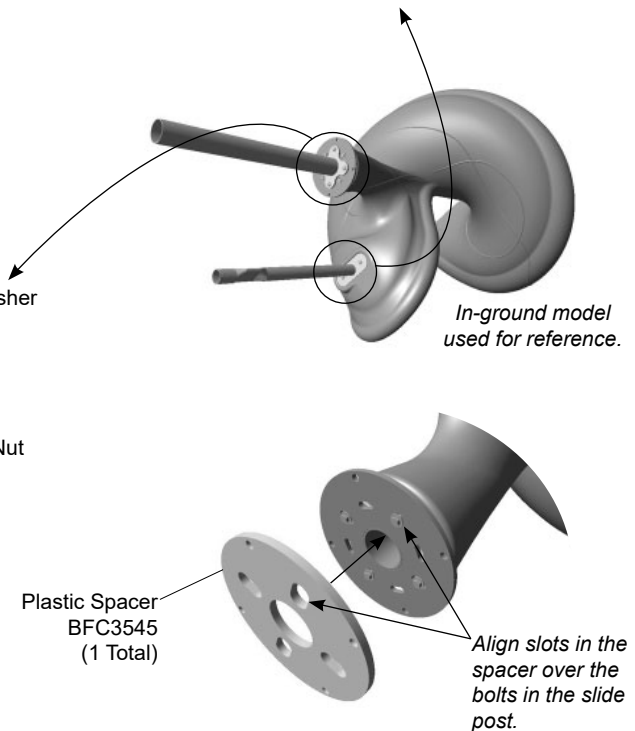
Remove the slide from the shipping pallet and lay on it's side.



Detail B



Detail C-1
(In-ground model only)



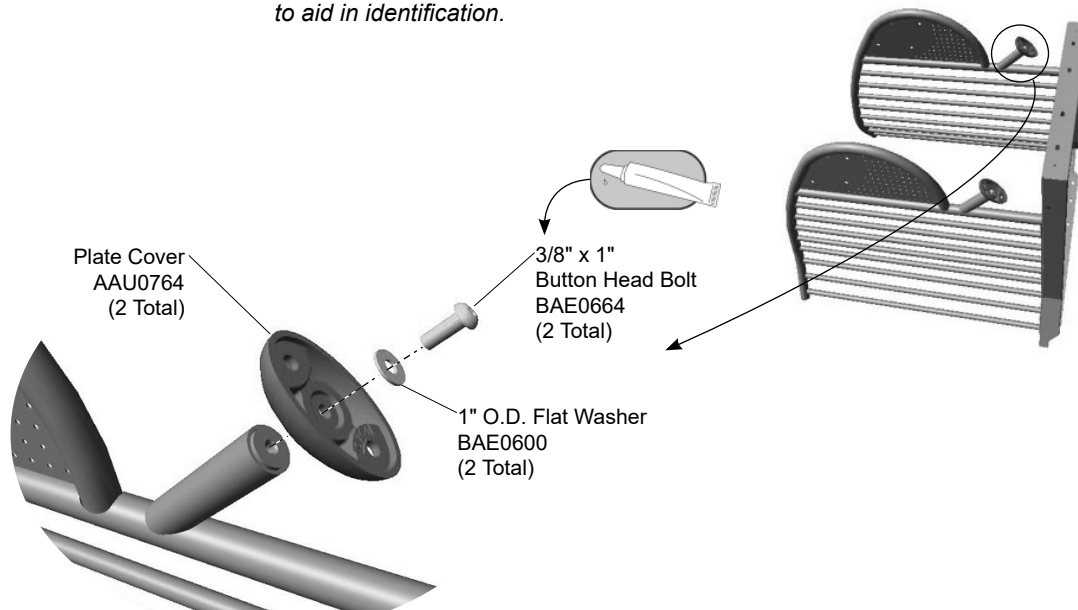
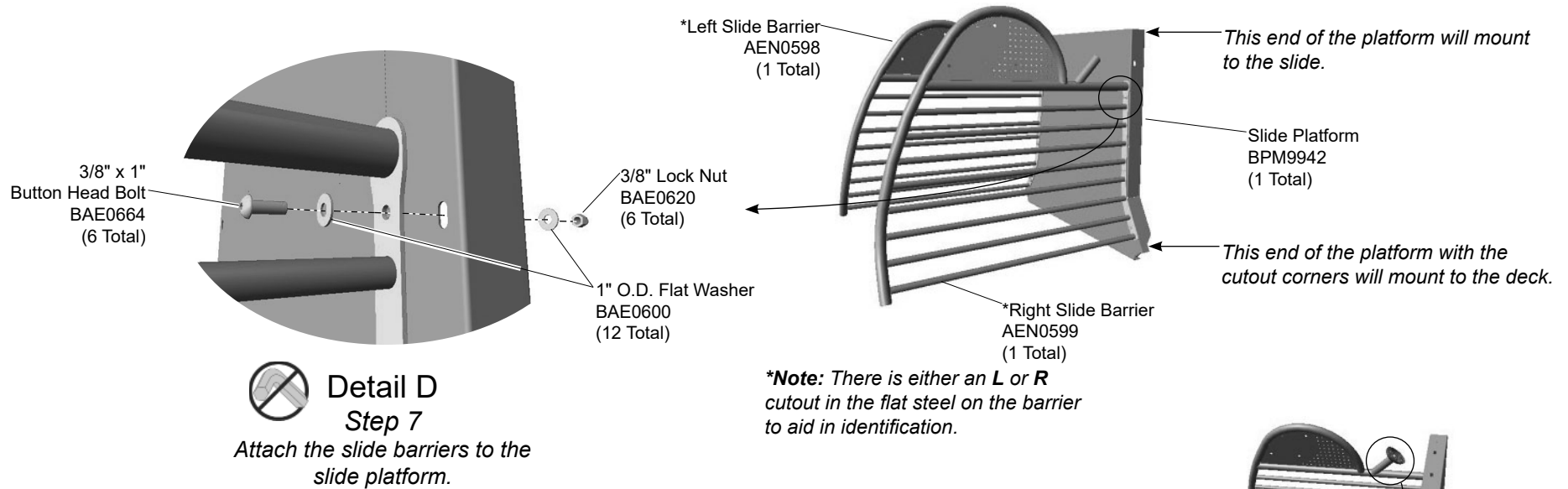
Detail C-2
(Surface mount model only)



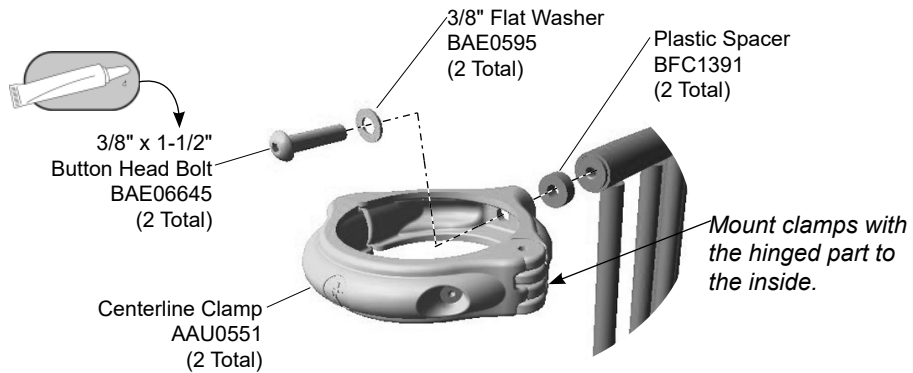
Details B & C-1 & C-2
Steps 5 and 6

Attach the exit support leg and support post to the slide.

Installation Instructions

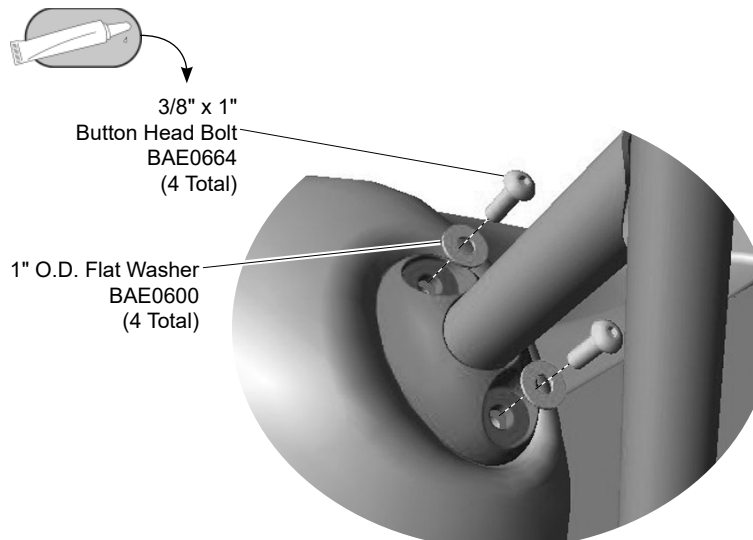
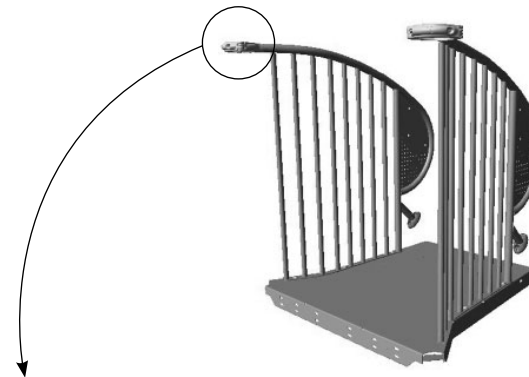


Installation Instructions



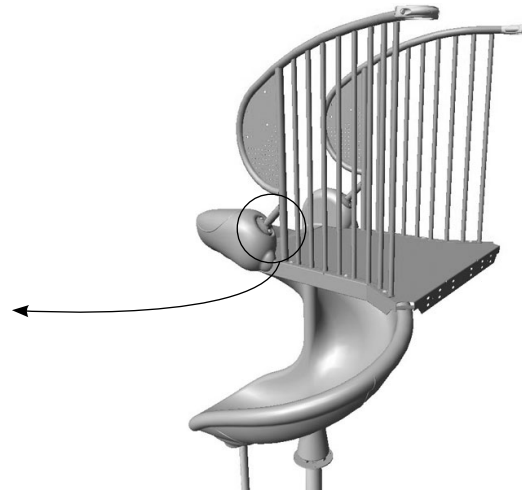
Detail F Step 9

Attach the centerline clamps to
the slide barriers.

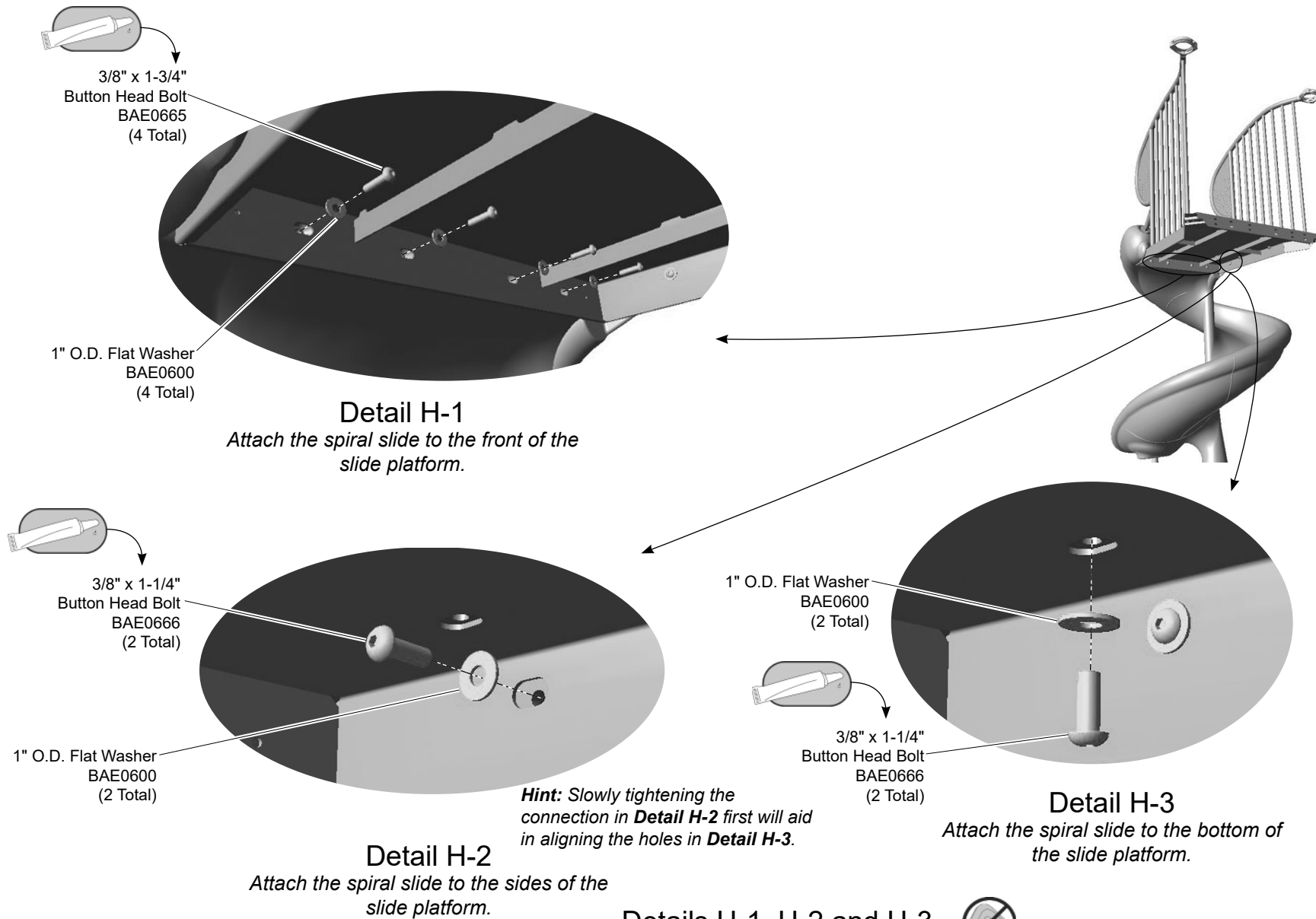


Detail G Step 10

Attach the spiral slide to the barriers.



Installation Instructions



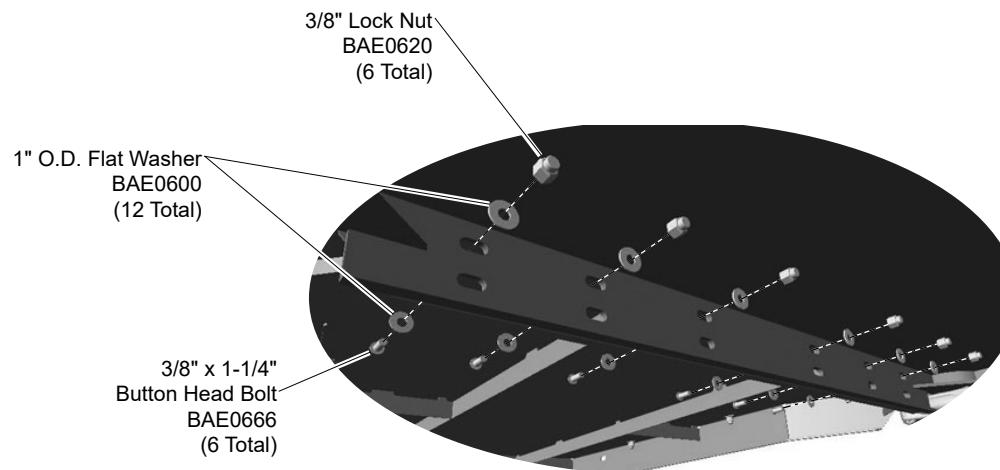
Details H-1, H-2 and H-3

Step 11

Attach the spiral slide to the slide platform.



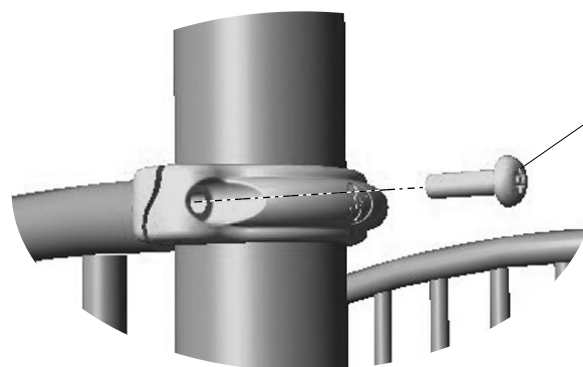
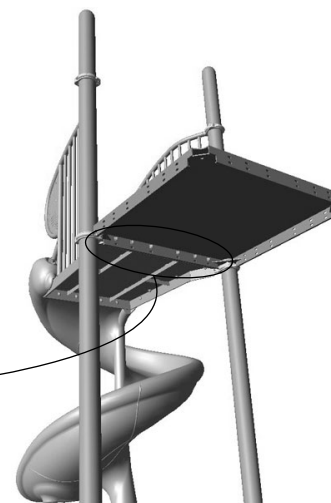
Installation Instructions



Detail I

Step 12

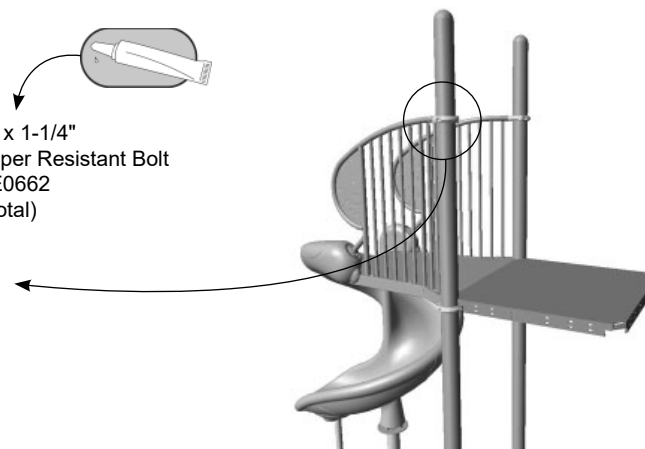
*Attach the slide platform assembly
to the deck.*



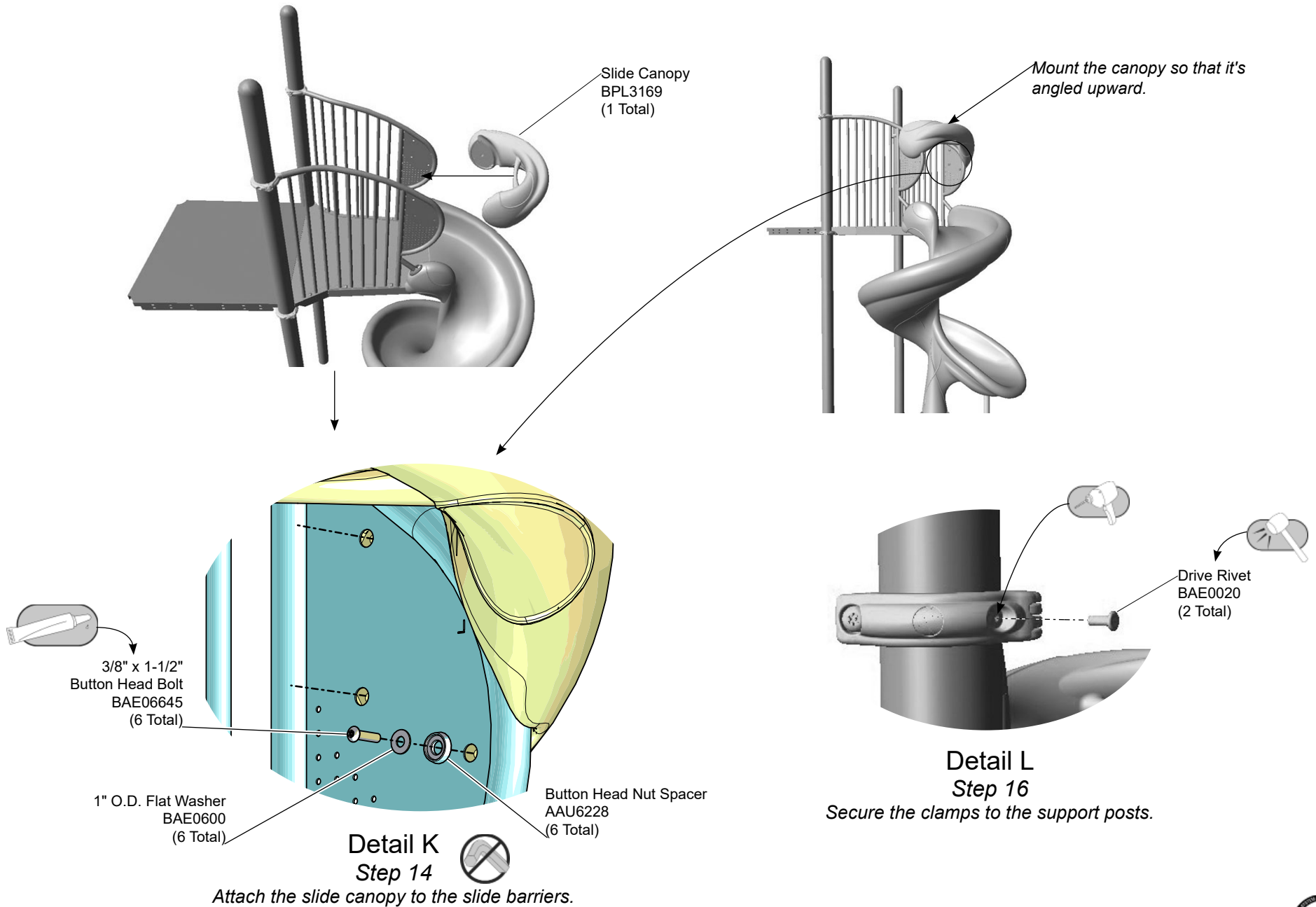
Detail J

Step 13

*Attach the barrier clamps to the
support posts.*

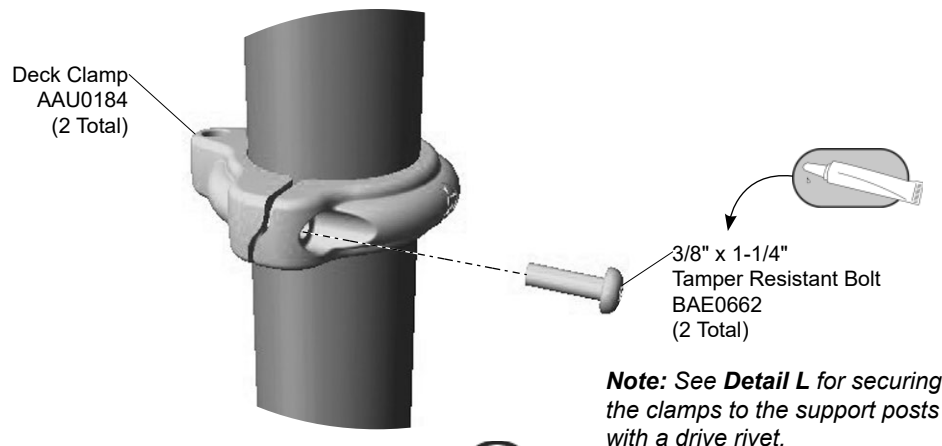


Installation Instructions



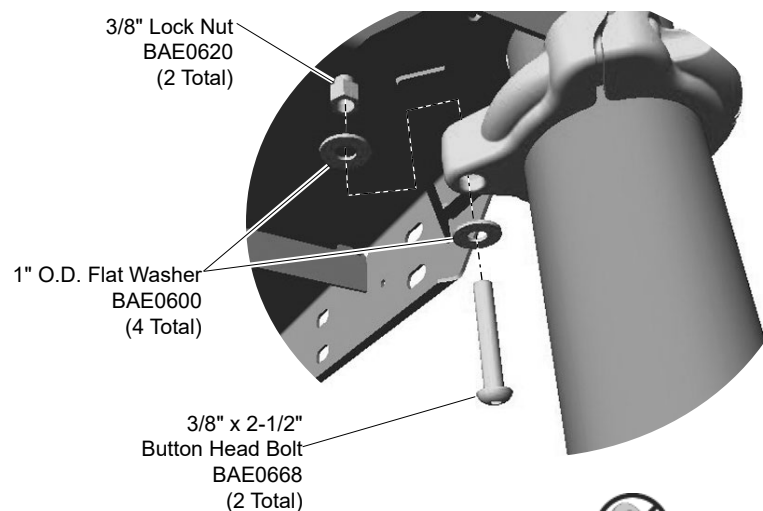
Installation Instructions

ADDITIONAL INSTRUCTIONS



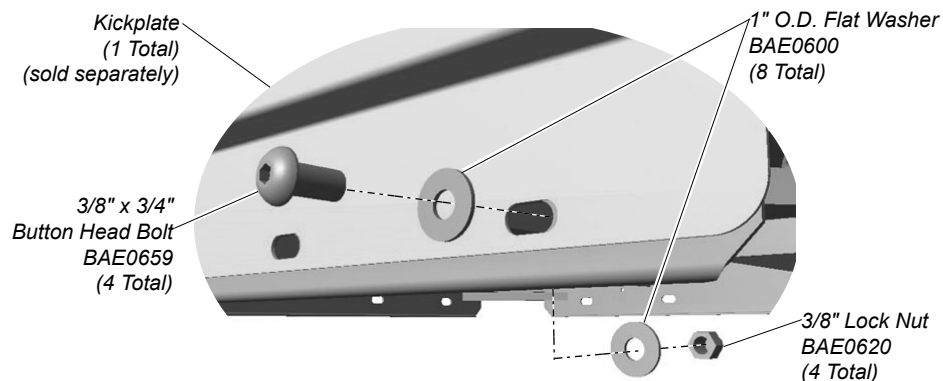
Detail M
Step 1

Attach the deck hanger clamps to the support posts.



Detail N
Step 2

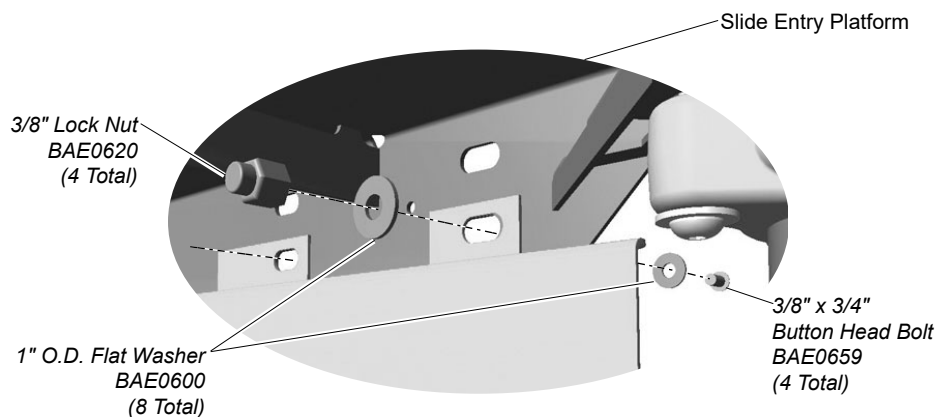
Attach the slide entry platform to the deck hanger clamps.



Detail O
Step 3

Attach the kickplate to the lower deck.

Note: The Kickplate is shown here. If you have the Deck To Deck Climber please refer to the appropriate install. Hardware shown in Details O and P is supplied with the kickplate.



Detail P
Step 4

Attach the kickplate to the slide entry platform (lower hole connections).

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Footing Details** show in the *Guidelines* at the beginning of this instruction booklet.

(*In-ground model*): For the slide support post, reference the **Support Post Footing Detail** and for the slide exit leg reference the **Component Footing Detail**.

Step 4: Unbolt the slide from the shipping pallet. See **Detail A**. Remove the slide from the pallet and lay the slide down on the ground.

Step 5: Attach the exit support leg to the bottom of the slide. See **Detail B**. Place the support leg into the indent on the bottom of the slide exit. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the torque specifications (See **Final Details**).

Step 6: Attach the support post to the bottom of the slide center support post (*in-ground model*). See **Detail C-1**. Align the mounting holes in the plate of the support post with the slots in the center support post and attach as shown. Fully tighten the connections according to the torque specifications. For the *surface mount* model a plastic spacer is provided and should be placed under the slide center post with the slots in the spacer over the hardware in the center post. See **Detail C-2**.

Step 7: Attach the slide barriers to the slide platform. See **Detail D**. Position each barrier against the top of the platform and attach as shown. Note the placement of the barriers is to the end of the platform with the cutout corners.

Step 8: Attach the plate covers to the slide barriers. See **Detail E**. Position a plate cover against each short protrusion on the bottom of the front rung on the barriers, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the torque specifications.

Step 9: Attach the centerline clamps to the slide barriers. See **Detail F**. Position a clamp against the top rail on each barrier, *with the hinges facing in*, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections according to the torque specifications.

Step 10: Attach the spiral slide to the barriers. See **Detail G**. Position the platform assembly against the top of the spiral slide with the barrier plate covers seated in the recessed sections in the spiral slide. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 11: Attach the spiral slide to the slide platform. See **Details H-1, H-2 and H-3**. Align the holes in the spiral slide with those in the slide platform, apply a drop of thread locking adhesive to the bolt threads, and attach as shown to the front, bottom and sides of the platform.

Attach the slide assembly to the structure deck.

Important note: Due to the weight of the assembly it is recommended that (4) four average sized adults perform **Steps 12 and 13**. *If attaching the assembly to a kickplate and entry support bracket on a lower deck, refer to instructions accompanying those items and the additional Details on pages 10 and 11 of these instructions.*

Step 12: Attach the slide assembly to the deck. See **Detail I**. Position the slide platform against the structure deck, close the clamps on the barriers around the support posts, and attach the platform to the deck as shown.

Step 13: Attach the barrier clamps to the support posts. See **Detail J**. Apply a drop of thread locking adhesive to the bolt threads, and attach the clamps to the support posts as shown.

Step 14: Attach the slide canopy to the slide barriers. See **Detail K**. Position the canopy over the barriers so that it's angled upward, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Installation Instructions

Final Details.

Step 15: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

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

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

Step 16: Install drive rivets. See **Detail L**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head. This step will also apply to the deck hanger clamps used in **Detail M**.

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

Step 17: Apply the hood string entanglement warning label to the equipment at eye level.

Additional instructions and details for connection of the slide to a kickplate (sold separately) on a lower structure deck.

Note: The *Kickplate* is shown. If you have the *Deck To Deck Climber* please refer to the appropriate install.

Step 1: Attach the deck hanger clamps to the support posts. See **Detail M**. Position the clamps around the support post at the appropriate height, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Portion of the clamp that will accept the slide platform should be to the inside of the posts.

Step 2: Attach the slide entry platform to the deck hanger clamps. See **Detail N**. Position the cutout corners of the platform on top of the deck hanger clamps and attach as shown. Platform will need to be supported during the following steps.

Step 3: Attach the kickplate to the lower deck. See **Detail O**. Align the kickplate with the holes in the deck and attach as shown.

Step 4: Attach the kickplate to the slide entry platform (*lower hole connections*). See **Detail P**. Align the slide entry platform with the kickplate. Insert each bolt through the lower holes of the slide platform and attach as shown.

Hint: Use an alignment tool to help keep the platform and kickplate aligned until several connections have been made.

Step 5: Continue attaching the slide to the slide platform (*Steps 13 - 14*). Follow remainder of instructions.

PM3537 - NUVO™ 360° SPIRAL SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0764	CASTING - 1.66" O.D. TUBING PLATE COVER	2
AAU6228	SPACER - BUTTON HEAD NUT	6
AEN0598	BARRIER - SPIRAL SLIDE - LEFT (PM)	1
AEN0599	BARRIER - SPIRAL SLIDE - RIGHT (PM)	1
APT5239	POST - 31.87" EXIT SUPPORT	1
APT5246	POST - 34.38" x 6.81" x 6.81"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	58
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	18
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - SS	10
BAE06675	BOLT - 3/8"-16 x 2.25" BUTTON HEAD - SS	2
BFC1391	SHEET - 1.25" x .50"	2
BPL3168	SLIDE - NUVO 360 SPIRAL SLIDE	1
BPL3169	CANOPY - 360 SPIRAL SLIDE	1
BPM9942	PLATFORM - NUVO SPIRAL SLIDE - PM	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3537S - NUVO™ 360° SPIRAL SLIDE SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0764	CASTING - 1.66" O.D. TUBING PLATE COVER	2
AAU6228	SPACER - BUTTON HEAD NUT	6
AEN0598	BARRIER - SPIRAL SLIDE - LEFT (PM)	1
AEN0599	BARRIER - SPIRAL SLIDE - RIGHT (PM)	1
APT5240	POST - 9.87" SURFACE MOUNT EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	50
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	14
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - SS	6
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - SS	10
BAE06675	BOLT - 3/8"-16 x 2.25" BUTTON HEAD - SS	2
BFC1391	SHEET - 1.25" x .50"	2
BFC3545	SHEET - 12.00" x .50"	1
BPL3168	SLIDE - NUVO 360 SPIRAL SLIDE	1
BPL3169	CANOPY - 360 SPIRAL SLIDE	1
BPM9942	PLATFORM - NUVO SPIRAL SLIDE - PM	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View


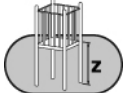

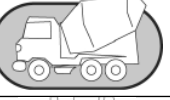



Installation Instructions

Playmakers® Model PM4090
Centerline Pipe Wall Barrier

Installation Preparation

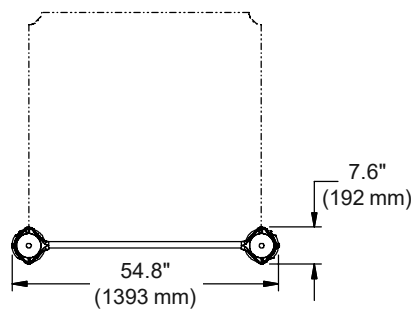
Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

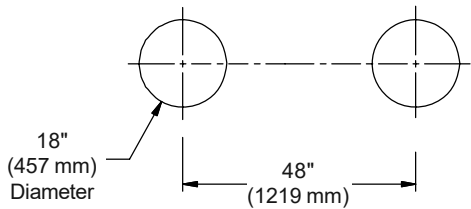
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	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

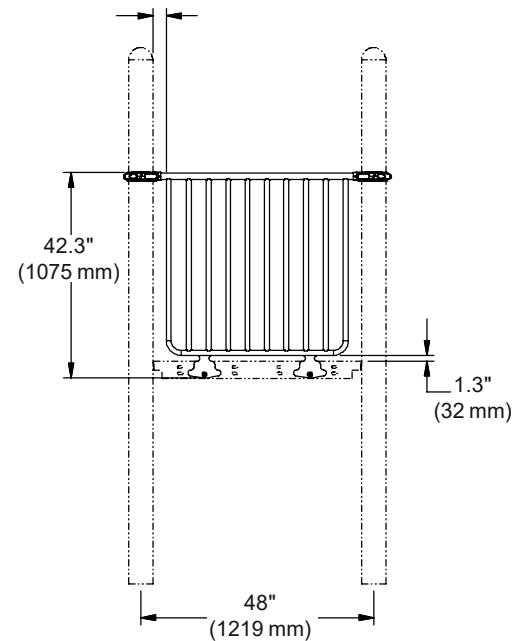
Top View



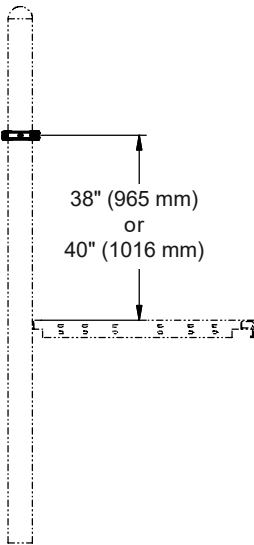
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Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

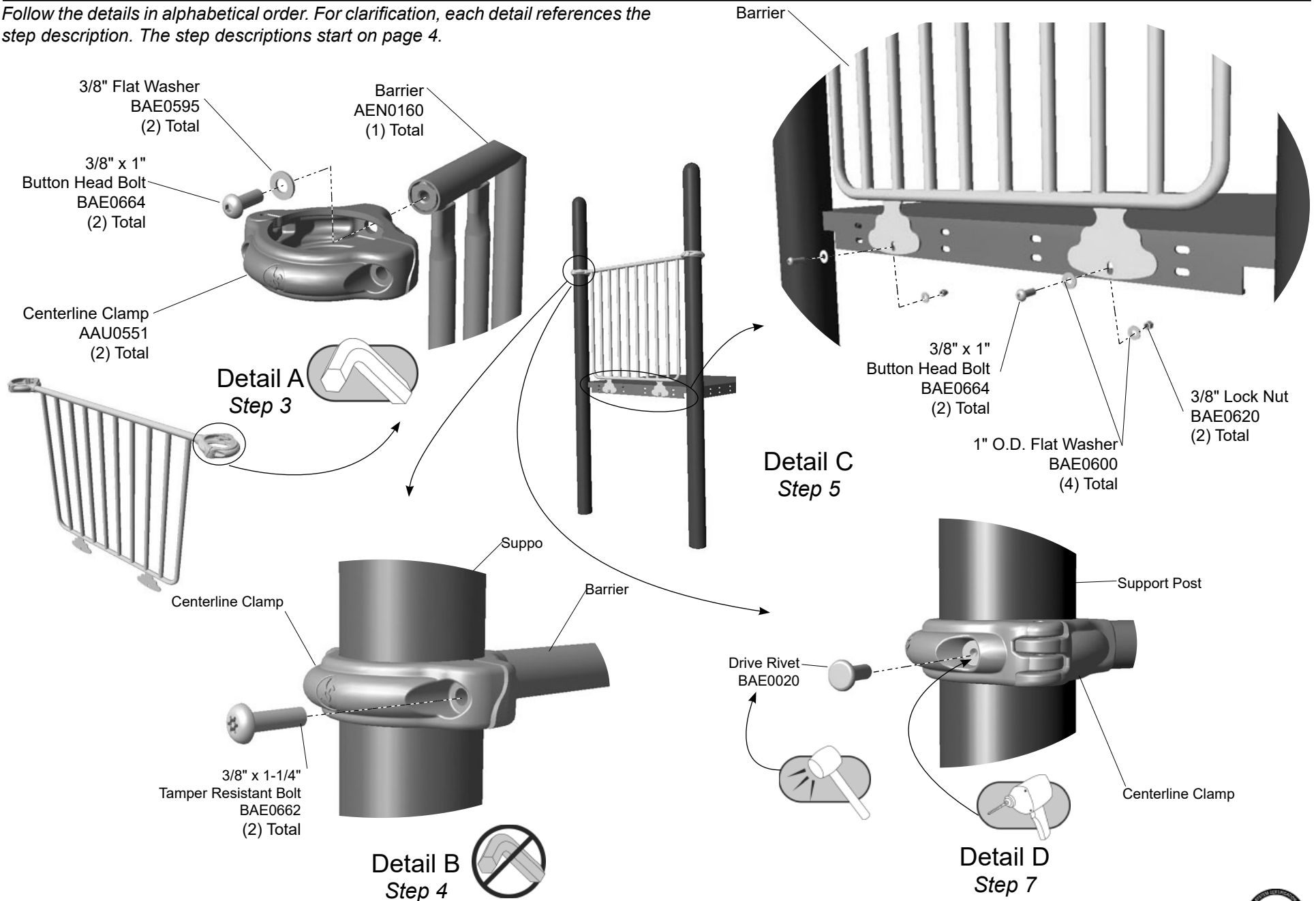


Elevation View



Installation Instructions

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



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

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

Attach the clamps to the support posts.

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

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

Attach the bottom of the barrier to the deck.

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

Final Details.

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

Torque Specifications:

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

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

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

Bill of Materials

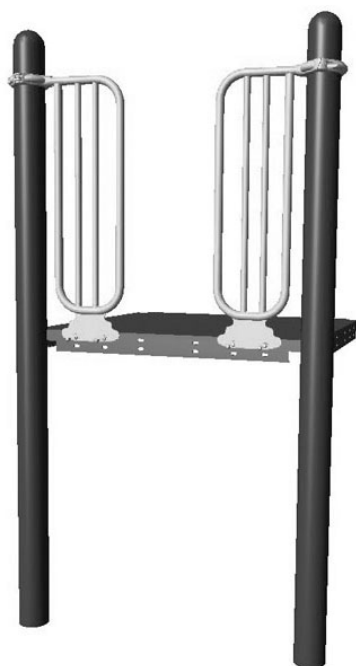
PM4090 - CENTERLINE PIPE WALL BARRIER

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

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Assembly View


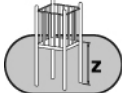

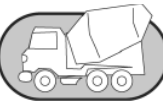
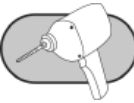


Installation Instructions

Playmakers® Model PM4288
Compliance Access Gate

Installation Preparation

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

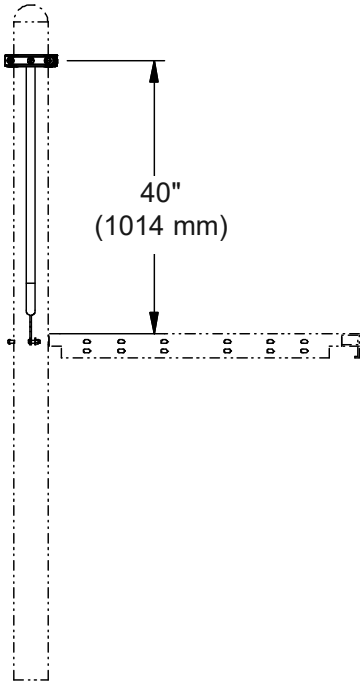
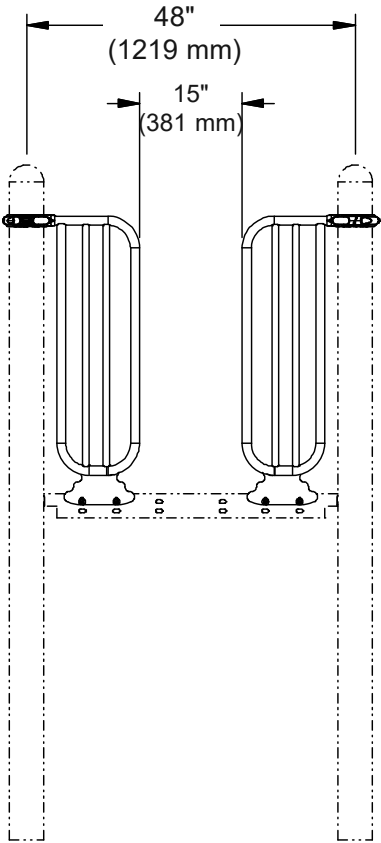
ICON KEY

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

Installation Instructions

KEY

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

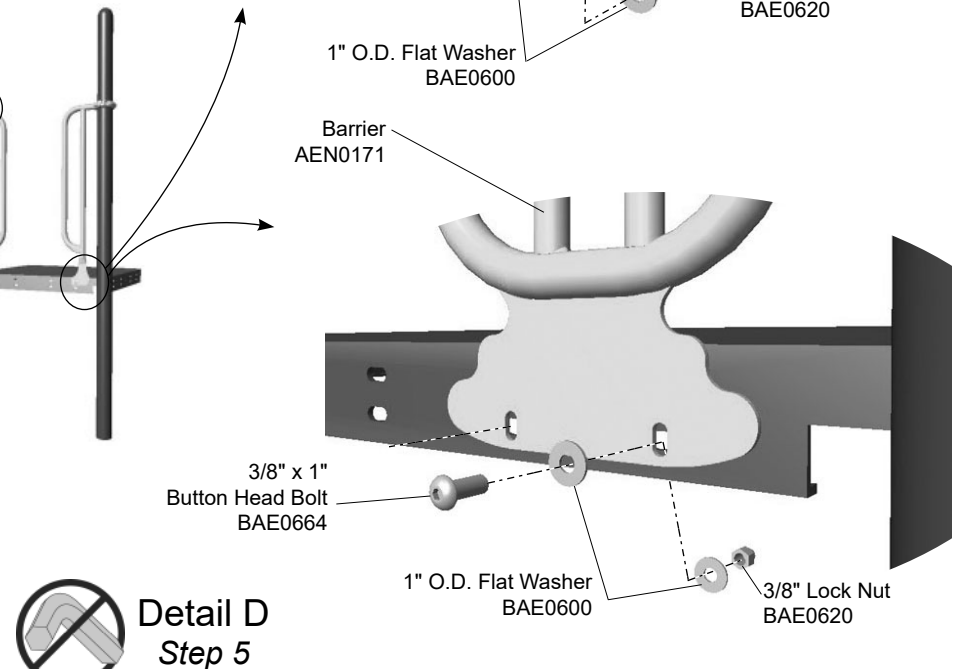
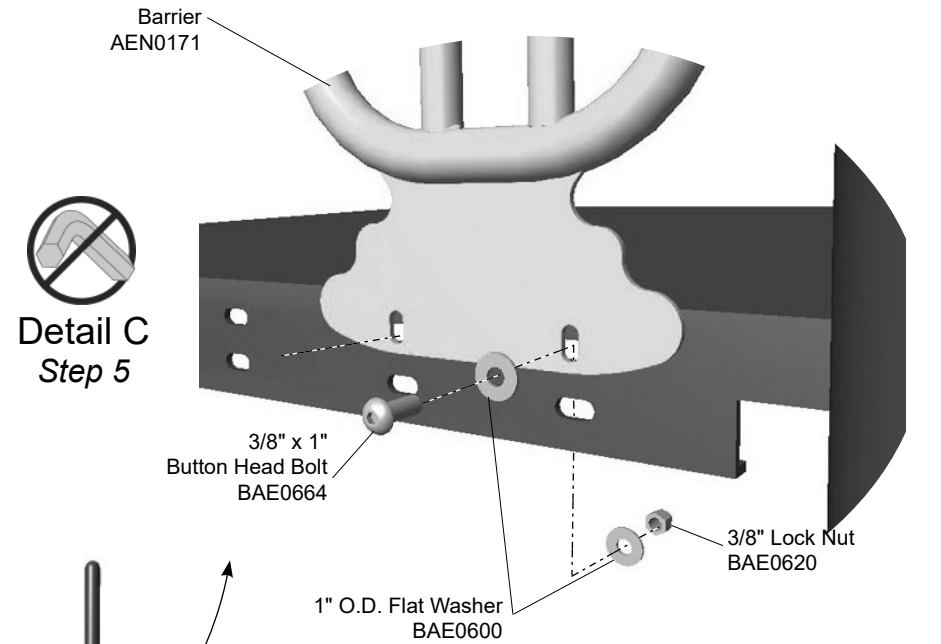
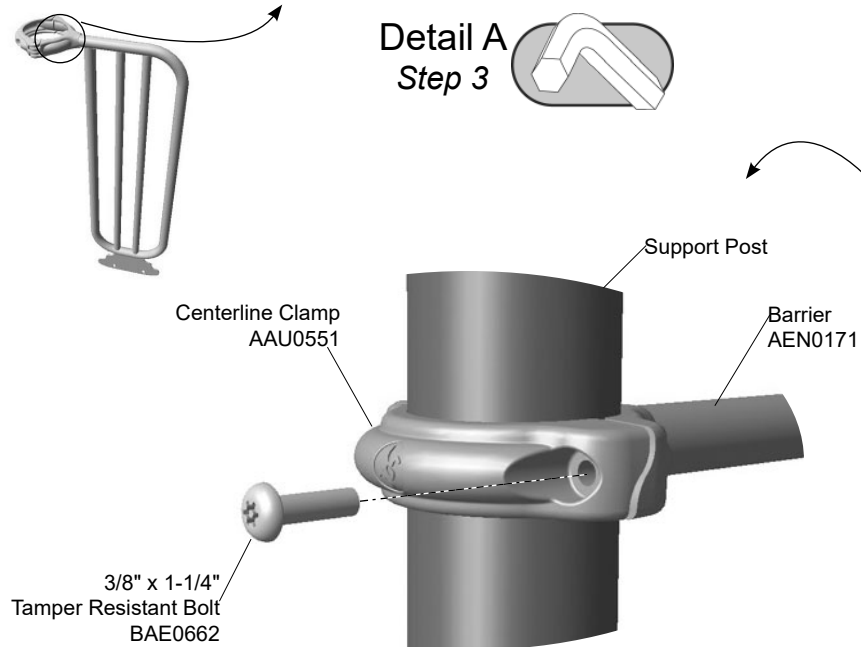
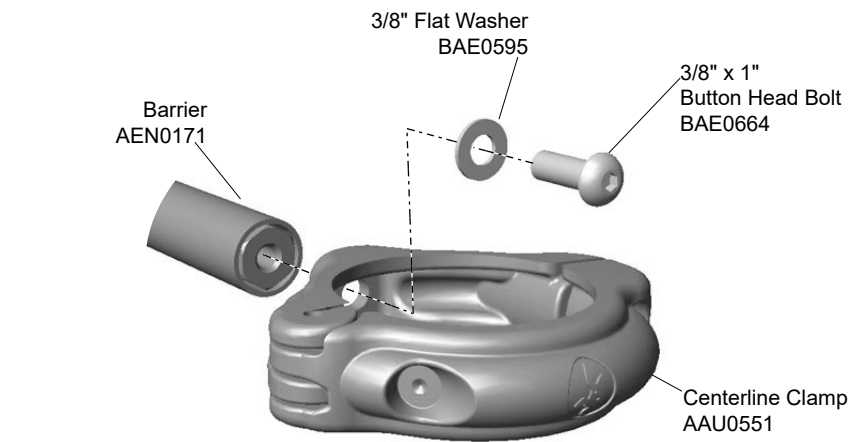


Elevation View



Installation Instructions

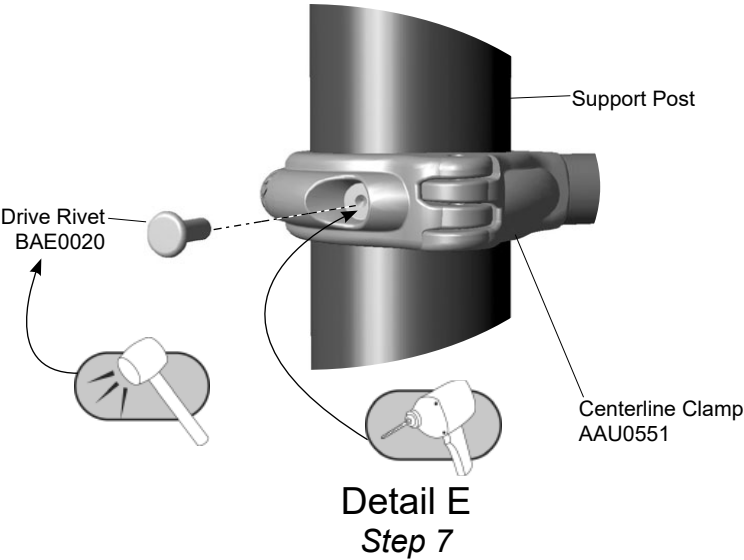
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions



Step 6



Detail E
Step 7



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

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

Attach the clamps to the support posts.

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

Attach the barrier to the deck.

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

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

Final Details.

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

Torque Specifications:

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

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

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

PM4288 - COMPLIANCE ACCESS GATE

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



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Assembly View


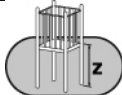

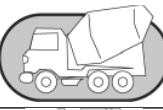
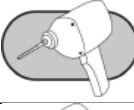

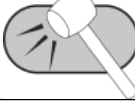
Installation Instructions

Playmakers® Model PM4290
Post Mounted Steering Wheel

Installation Preparation

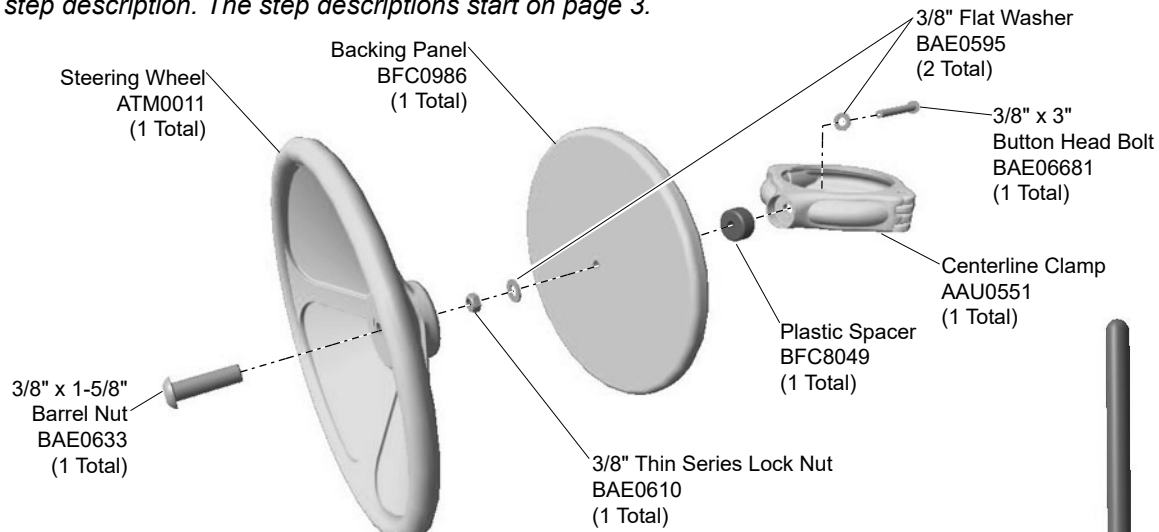
Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

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

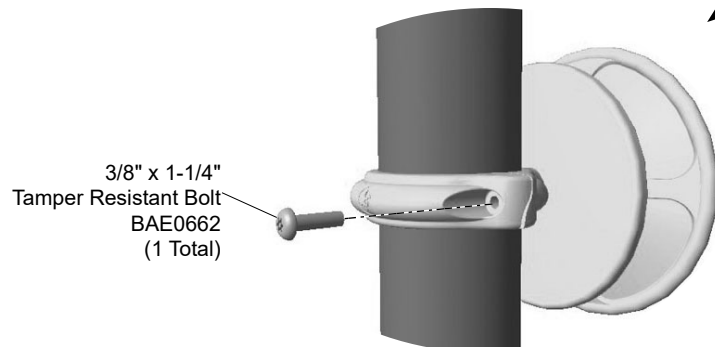
Installation Instructions

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



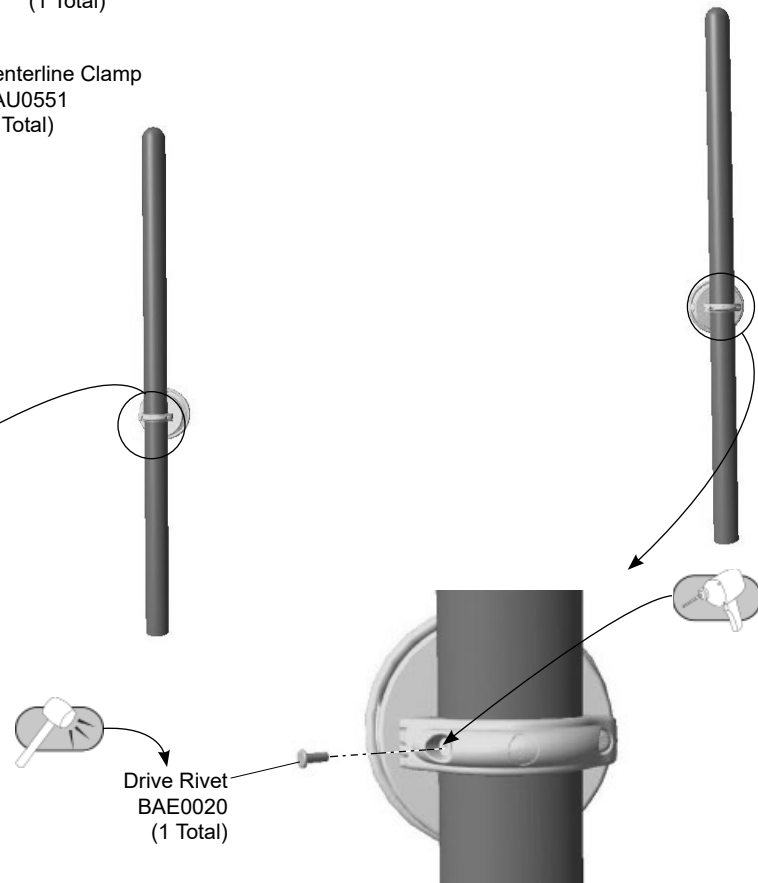
Detail A Step 3

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



Detail B Step 4

Attach the steering wheel assembly to the support post.



Detail C Step 6

Secure the clamp to the support post.

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

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

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

Step 4: Attach the steering wheel assembly to the support post. See **Detail B**. Close the clamp around the support post at the height desired, and attach as shown.

Final Details.

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

Torque Specifications:

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

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

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

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

Bill of Materials

PM4290 - POST MOUNTED STEERING WHEEL

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





Assembly View


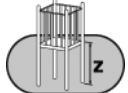




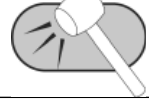
Installation Instructions

Playmakers® Model PM4467
Ground To Ground Babble-On

Installation Preparation

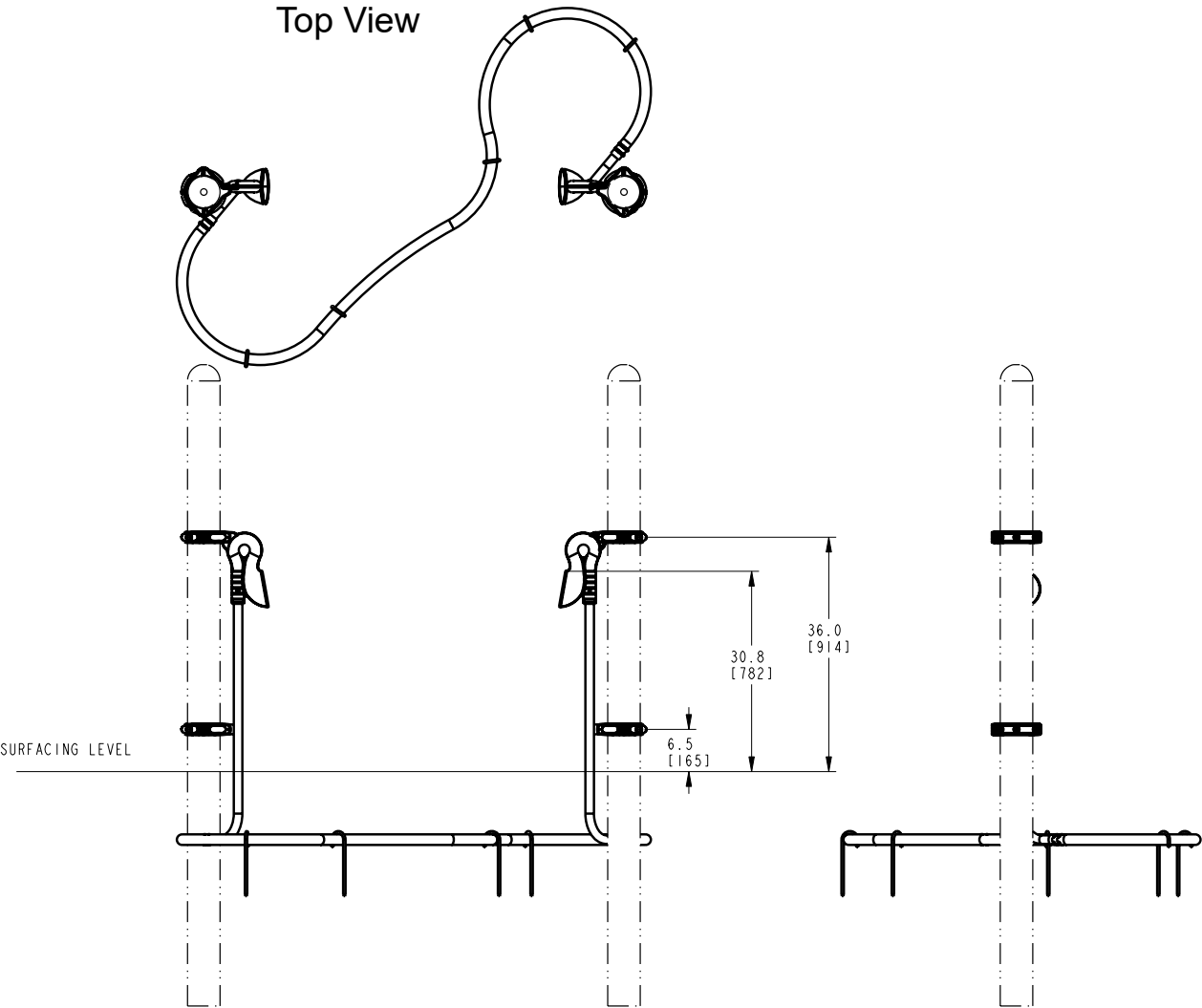
Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

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

Installation Instructions

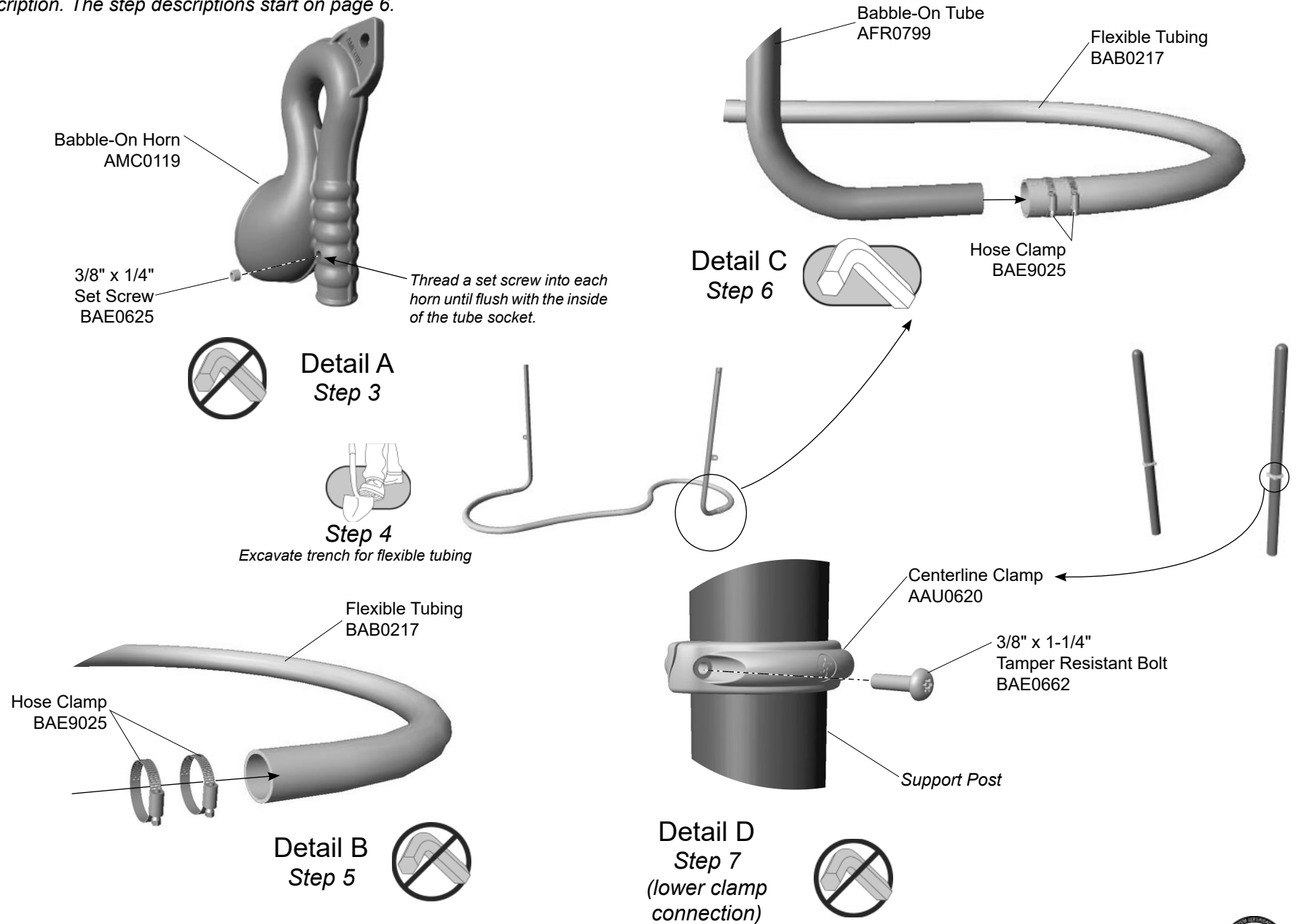
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views

Installation Instructions

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



Installation Instructions

Babble-On Tube
AFR0799

1" O.D. Flat Washer
BAE0600

3/8" x 3/4"
Button Head Bolt
BAE0659

Centerline Clamp
AAU0620



Detail E
Step 8
(tube to lower clamp connection)

Important Note: The tube tabs and Babble-On Horns should always be mounted to the same side of the clamps.

Centerline Clamp
AAU0620

3/8" x 1-1/4"
Tamper Resistant Bolt
BAE0662



Detail G
Step 10
(upper clamp connection)

Babble-On Horn
AMC0119

Babble-On Tube
AFR0799

3/8" x 1"
Button Head Bolt
BAE0664

1" O.D. Flat Washer
BAE0600

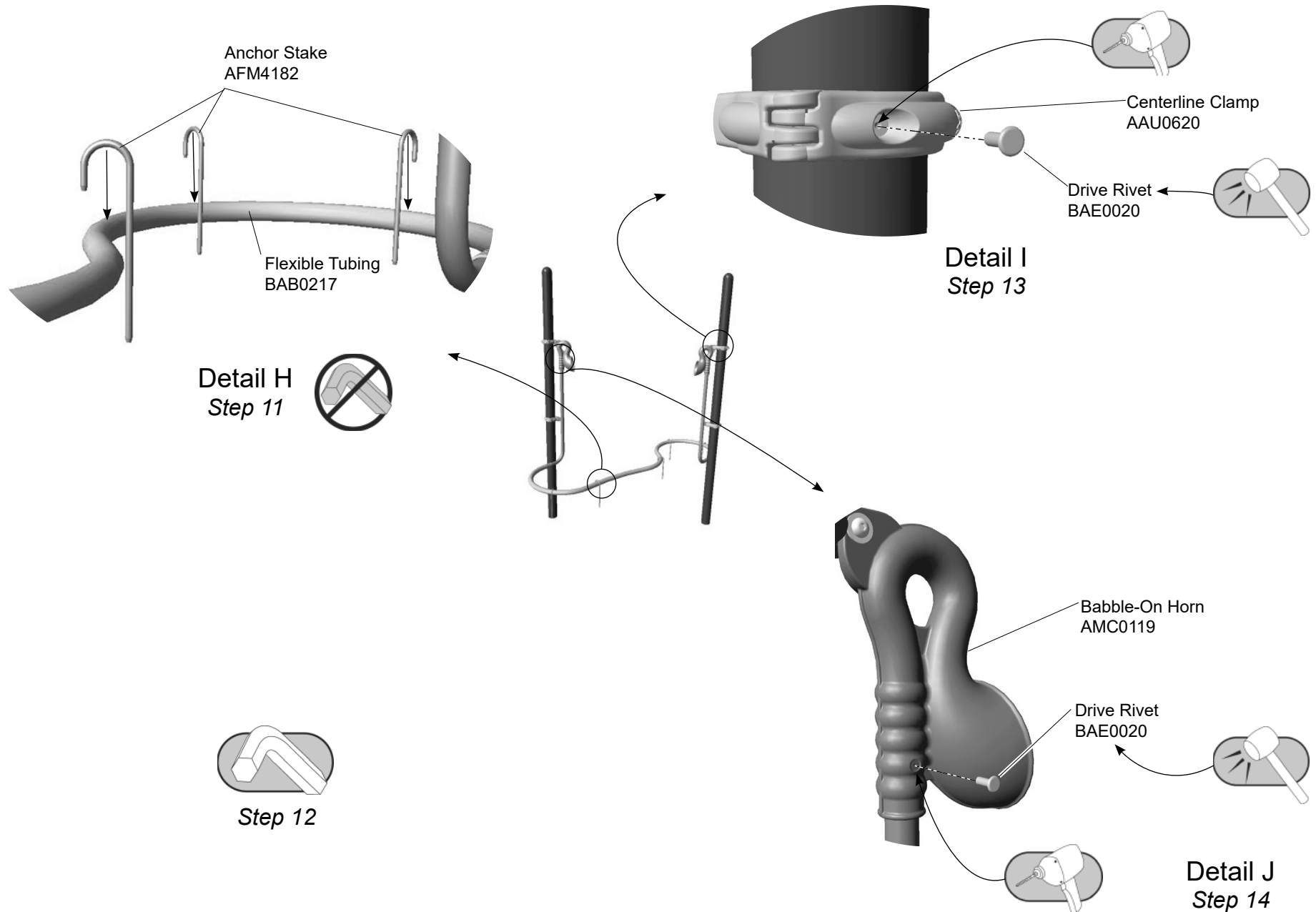
Centerline Clamp
AAU0620

(Place upper clamp around post first before attaching horn)



Detail F
Step 9

Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Thread a set screw into each Babble-On horn. See **Detail A**. Select (2) two of the following: Babble-On horns and set screws. Thread a set screw into each horn until flush with the inside of the tube socket.

Step 4: Excavate trench for flexible tubing. Trench should be at least 2" (51 mm) deep.

Insert the hose clamps onto the flexible tubing.

Step 5: Insert the hose clamps onto the flexible tubing. See **Detail B**. Select the flexible tubing and the hose clamps. There are (2) two clamps per end of flexible tubing. *Do not tighten the hose clamps.*

Attach the flexible tubing to the Babble-On tubes.

Step 6: Attach the flexible tubing to the Babble-On tubes. See **Detail C**. Select the Babble-On tubes. Insert the Babble-On tube into the end of the flexible tubing and through the hose clamps as shown. Tighten the hose clamps around the flexible tubing and Babble-On tube.

Attach the lower clamps to the support posts.

Step 7: Attach the lower clamps to the support posts. See **Detail D**. Select (2) two of the following: centerline clamps and tamper resistant bolts. Position the *centers* of the clamps at 6.5" (165 mm) above the surfacing sticker on each support post and attach as shown. See **Elevation View**. Orient the clamps the same way as shown.

Attach the Babble-On tubes to the lower clamps.

Step 8: Attach the Babble-On tubes to the lower clamps. See **Detail E**. Select the the Babble-On tubes and the appropriate hardware. There are (2) two connections. Position the mounting tab of a tube against the clamp, and attach as shown.

Important Note: The tube tabs and Babble-On Horns must be mounted on the same side of the clamps. See **Elevation View**.

Attach a clamp to each Babble-On horn.

Step 9: Attach a clamp to each Babble-On horn. See **Detail F**. Select (2) two centerline clamps and the appropriate hardware. Slide a horn down over each Babble-On tube. Close a clamp around a support post at each location, *oriented so the horn will be mounted on the same side of the clamp as the tube tab*. Attach as shown.

Attach the clamps to the support posts.

Step 10: Attach the clamps to the support posts. See **Detail G**. Select (2) two tamper resistant bolts. Close the clamps around the support posts and attach as shown.

Secure the flexible tubing.

Step 11: Secure the flexible tubing. See **Detail H**. Select the anchor stakes. There are (5) five connections. When the flexible tubing is laid out in the proper position, secure it to the ground with an anchor stake.

Final Details.

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

Torque Specifications:

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

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

Step 13: Install drive rivets. See **Details I and J**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Also, install a drive rivet in each Babble-On horn to permanently secure it to the Babble-On tube. Using a 1/4" drill bit, drill through the clamp and support post, and through the Babble-On horn and tube. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp or horn. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head. **Note:** This step should be executed after structure has been assembled and properly footed.

PM4467 - GROUND TO GROUND BABBLE-ON

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AFM4182	FAB METAL - .38" x 10.00" ANCHOR STAKE	5
AFR0799	FRAME - GROUND LEVEL BABBLE-ON TUBE	2
AMC0119	MISC - BABBLE-ON w/BUG SCREEN	2
BAB0217	1.63" x 50.00' POLYETHYLENE TUBING	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0625	SCREW - 3/8"-16 x 1/4" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE9025	CLAMP - HOSE 1.19" to 1.75" DIA	4



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Assembly View (representative model)

Model	Bell Diameter
ZZPM4556	7" (178 mm)
ZZPM4557	8" (203mm)
ZZPM4558	9" (229 mm)
ZZPM4559	10" (254 mm)

Installation Instructions


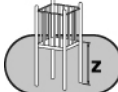

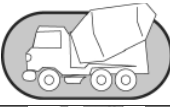


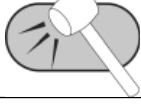
Playmakers® Models PM4556, PM4557, PM4558, and PM4559

7 in. (178 mm), 8 in. (203 mm),
9 in. (229 mm), and 10 in. (254 mm)
Bell (Post Mount)

Installation Preparation

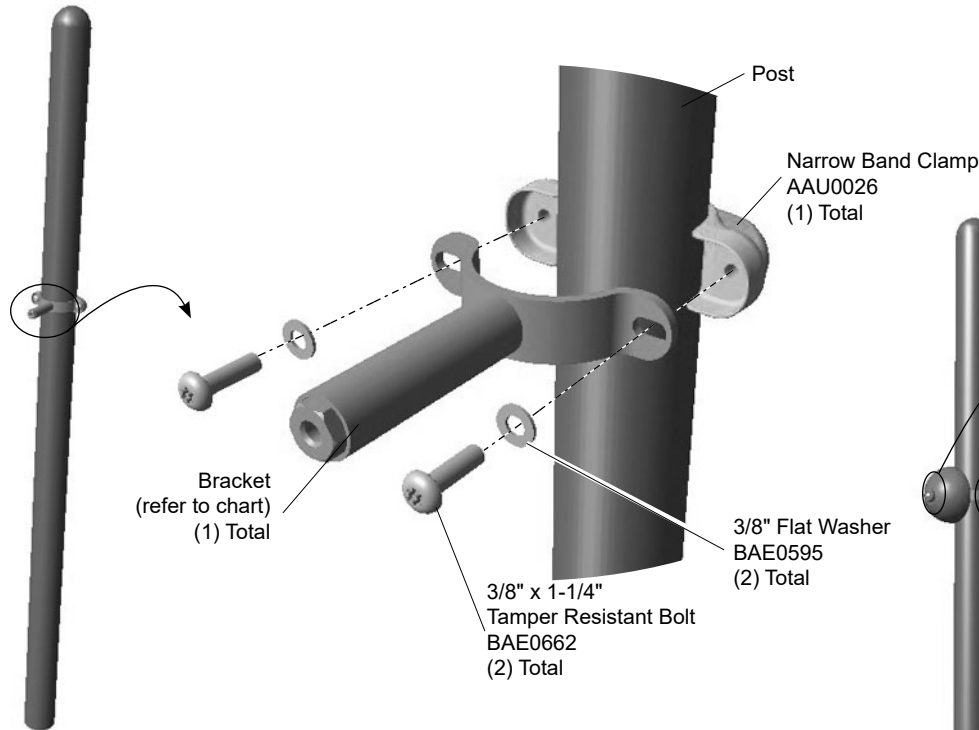
Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

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

Installation Instructions

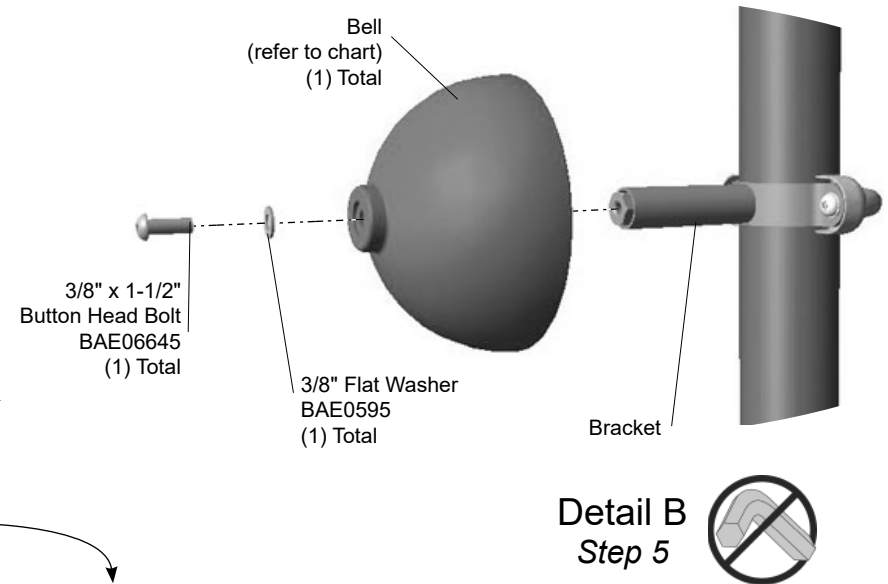
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 3.



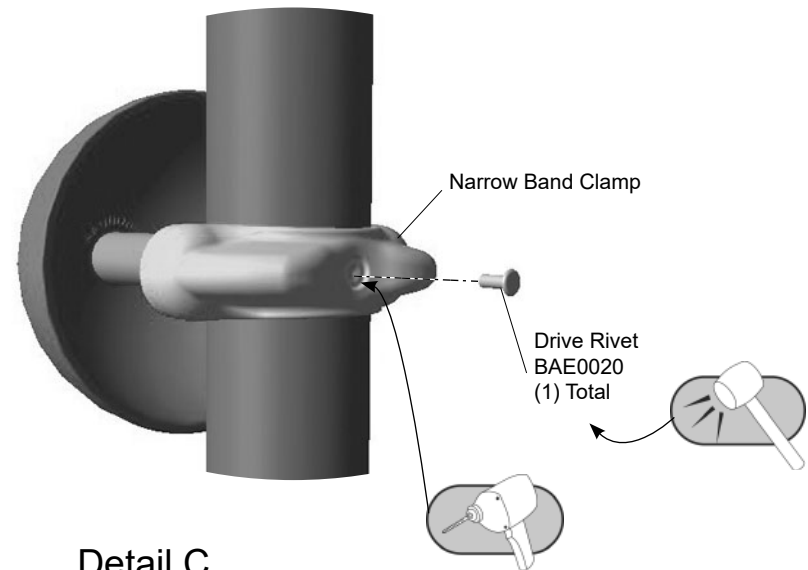
Detail A
Step 4



Model	Bell Part #	Bracket Part #
ZZPM4556	AAU0095	ABC0209
ZZPM4557	AAU0094	ABC0208
ZZPM4558	AAU0093	ABC0207
ZZPM4559	AAU0092	ABC0206



Detail B
Step 5



Detail C
Step 7

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the bell by referring to the master plan view / structure layout drawing.

Attach mounting bracket to the post.

Step 4: See **Detail A**. Position the mounting bracket against the support post at the desired height. Attach as shown Snug tighten connections.

Attach bell to the mounting bracket.

Step 5: See **Detail B**. Place the concave side of the bell over the mounting bracket and align holes. Attach as shown.

Final Details.

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

Torque Specifications:

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

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

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

Bill of Materials

PM4556 - 7 in. (178 mm) BELL (POST MOUNT)

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	1
AAU0095	MISC - 7.00" DIA. x 3.88" BELL	1
ABC0209	BRACKET - 5" DIA. x 7-1/8"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM4559 - 10 in. (254 mm) BELL (POST MOUNT)

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	1
AAU0092	MISC - 10.00" DIA. x 5.38" BELL	1
ABC0206	BRACKET - 5" DIA. x 8-5/8"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM4557 - 8 in. (203 mm) BELL (POST MOUNT)

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	1
AAU0094	MISC - 8.00" DIA. x 4.38" BELL	1
ABC0208	BRACKET - 5" DIA. x 7-5/8"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM4558 - 9 in. (229 mm) BELL (POST MOUNT)

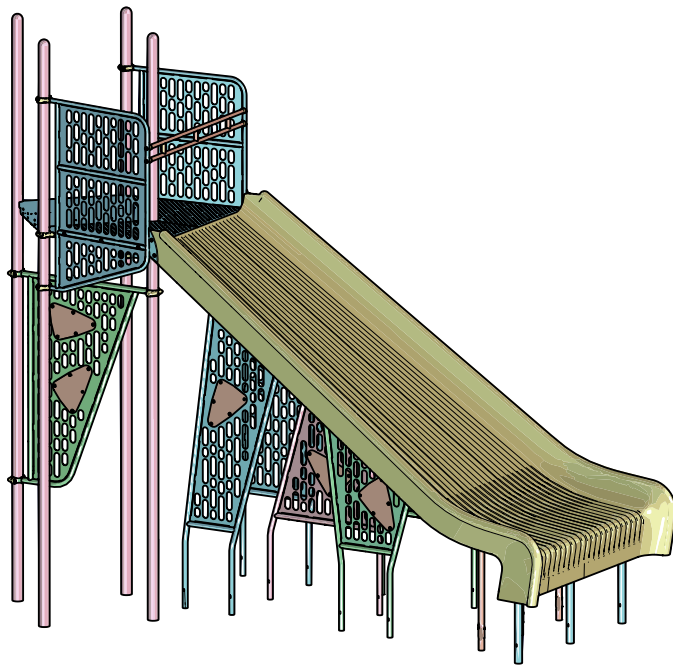
PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	1
AAU0093	MISC - 9.00" DIA. x 4.88" BELL	1
ABC0207	BRACKET - 5" DIA. x 8-1/8"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



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Assembly View (representative model)




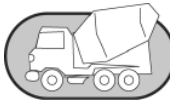
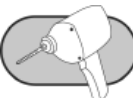

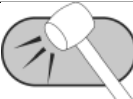
Installation Instructions

Playmakers® Models PM4695 and PM4695S
Mighty Descent w/ Prism Pass
In-ground and Surface Mount

Installation Preparation

Recommended Crew: Three (3) adults
..... *minimum of six (6) adults required for placement of slide
Installation Time (In-Ground): 10 man-hours
Installation Time (Surface Mount): 5 man-hours
Concrete Required: 0.48 cubic yard (0,32 cubic meters)
Use Zone: Refer to Master Layout Drawing
User Group Age (years): ASTM: 2-12, CSA: 1.5-12, EN: 2-14

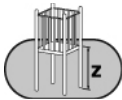
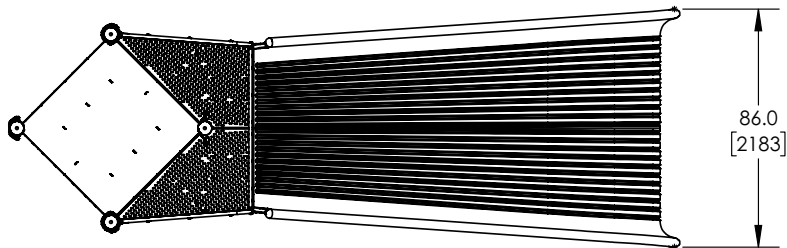
ICON KEY

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

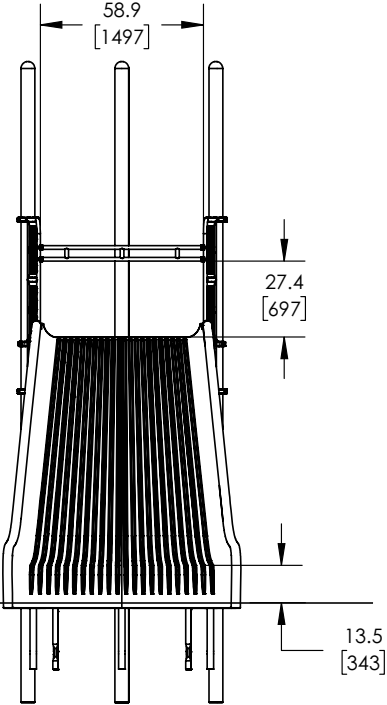
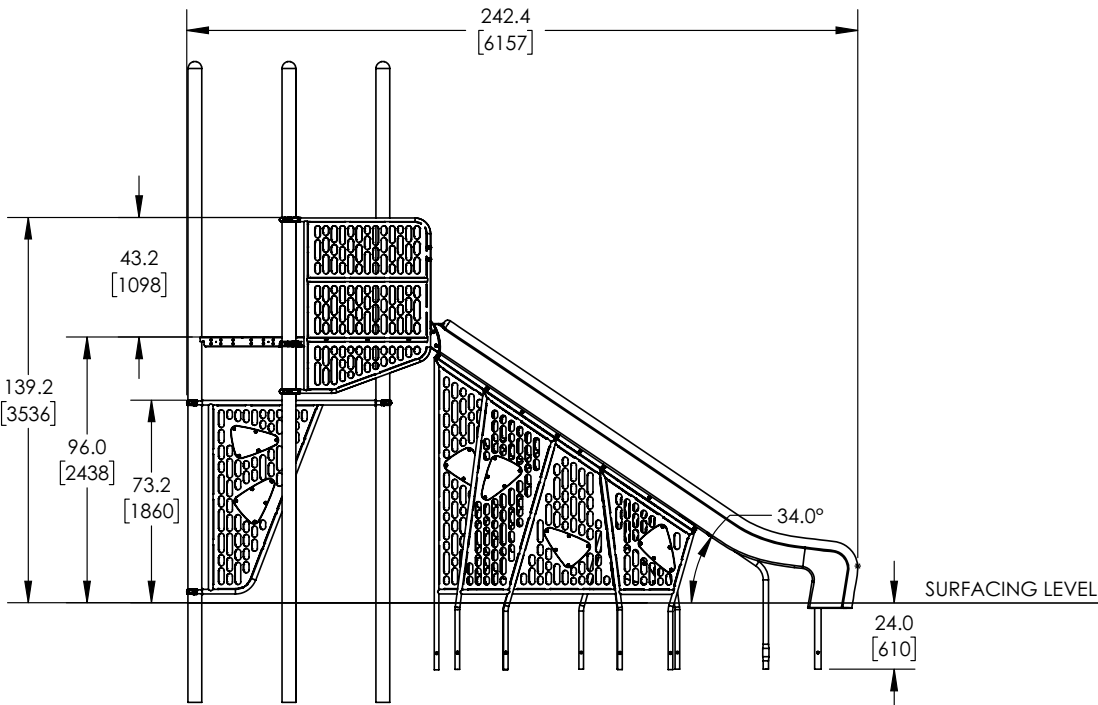
Installation Instructions

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

Top View



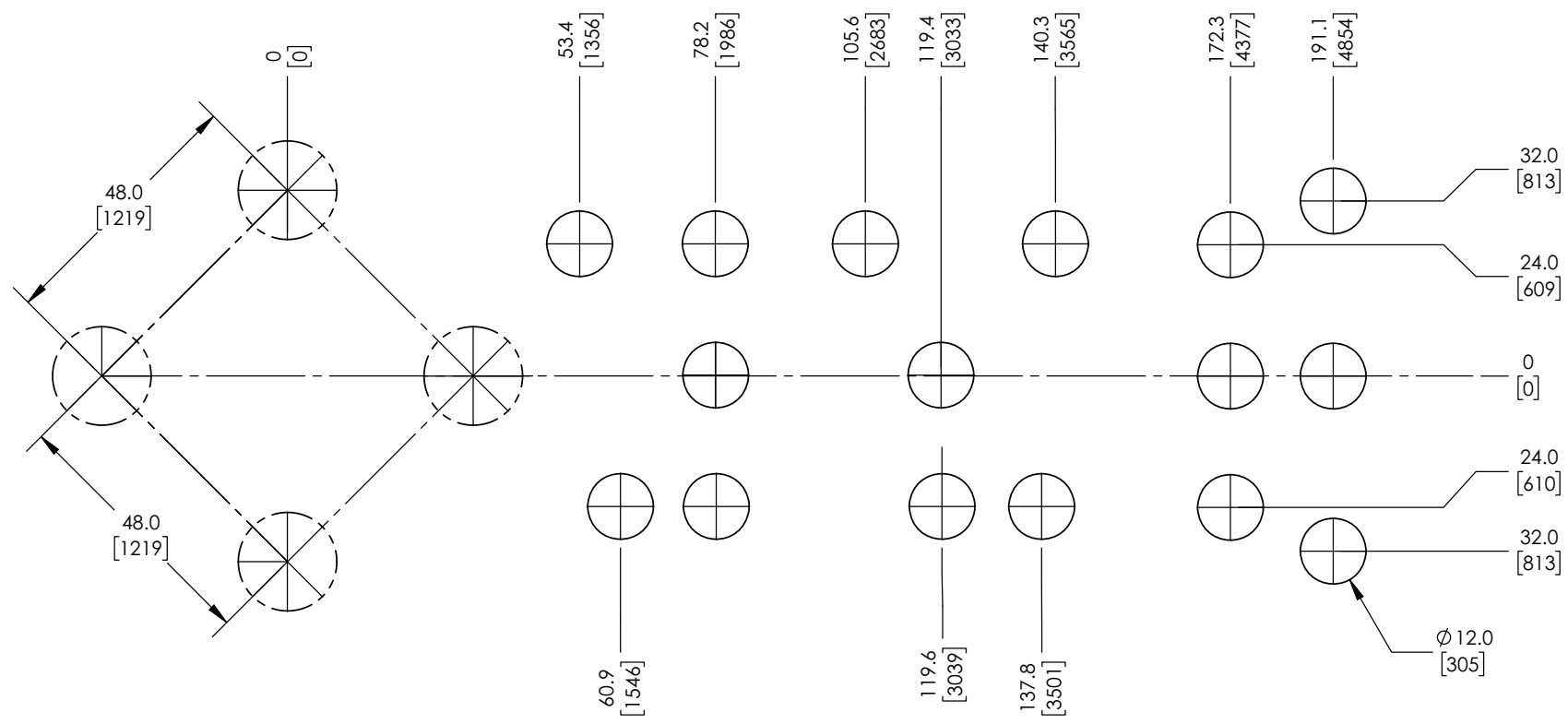
Height of the deck



Elevation Views
PM4695



Installation Instructions



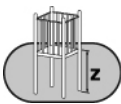
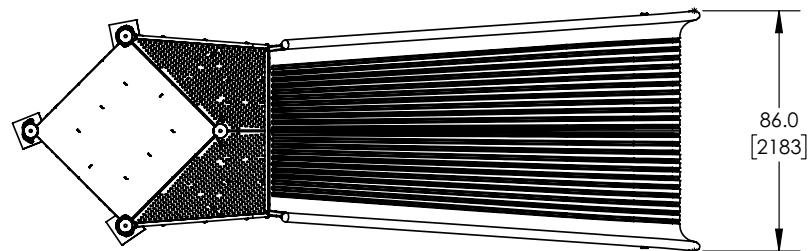
Footing Diagram
PM4695



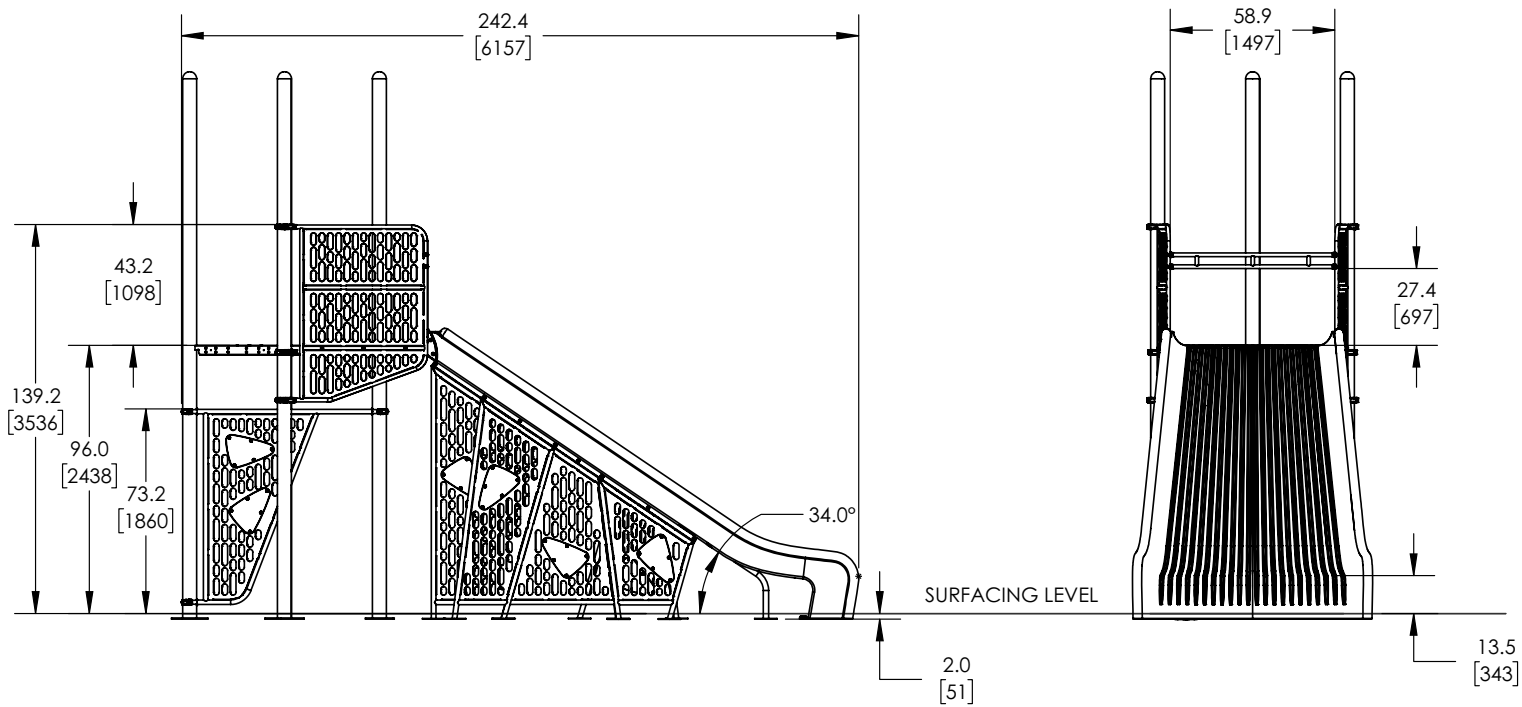
Installation Instructions

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

Top View



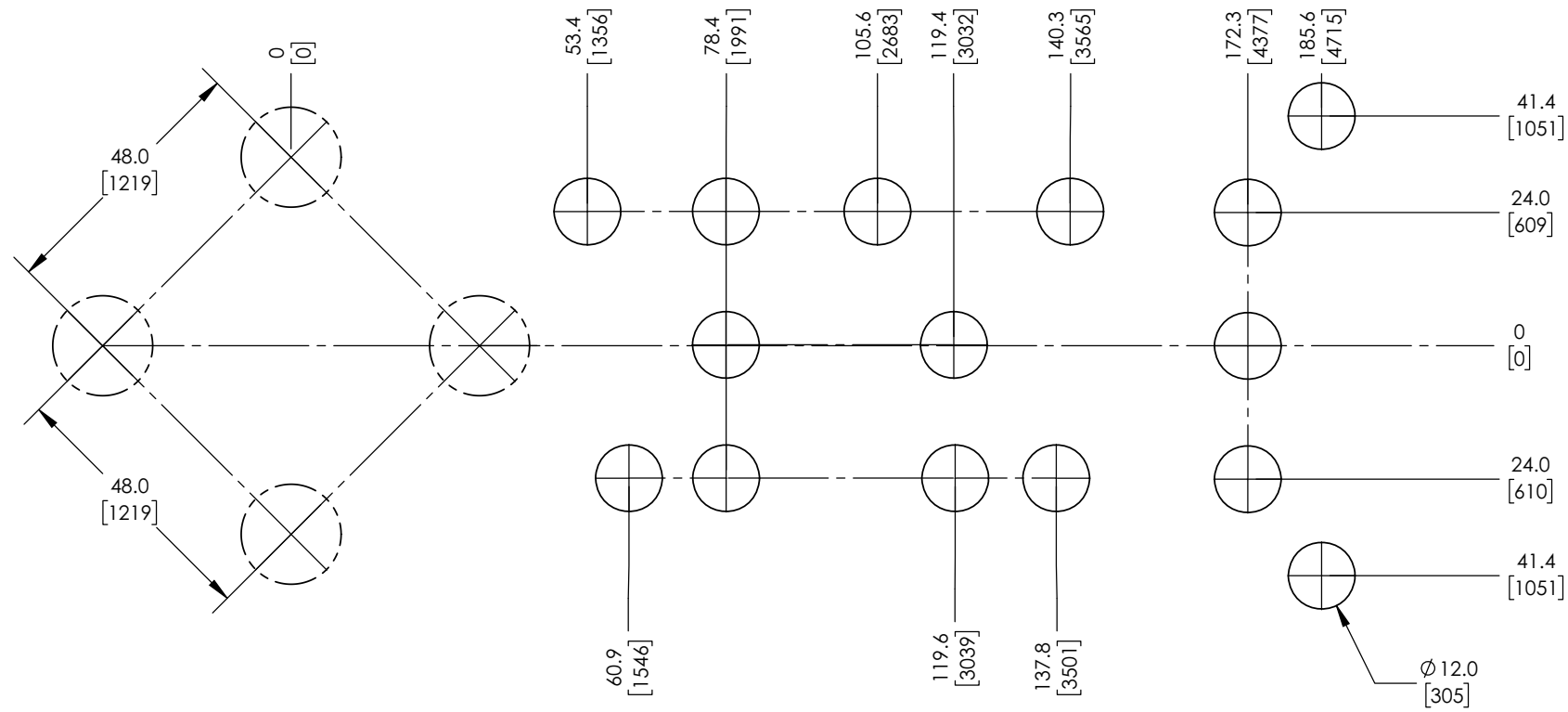
Height of the deck



Elevation Views
PM4695S



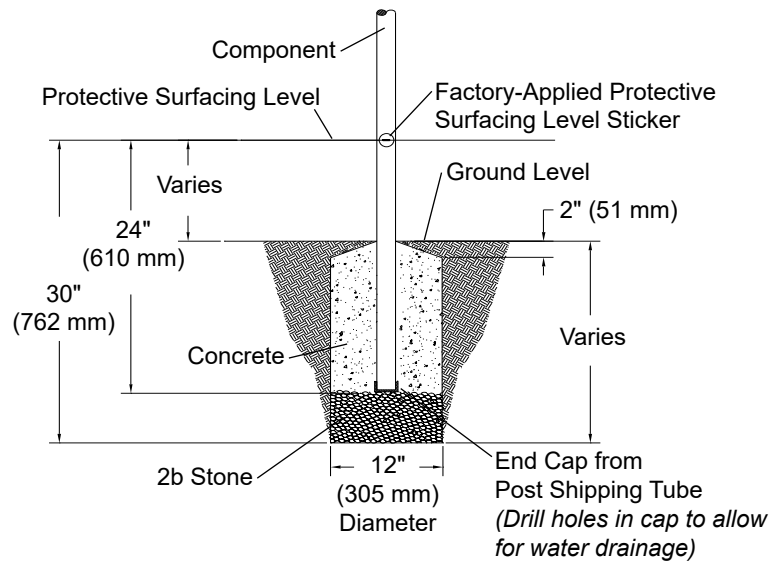
Installation Instructions



Footing Diagram
PM4695S



Installation Instructions



Component Footing Detail (ASTM/CSA)

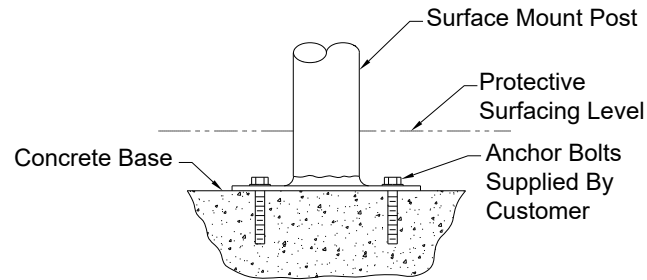
FOOTING NOTES

- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions



Surface Mount Footing Detail

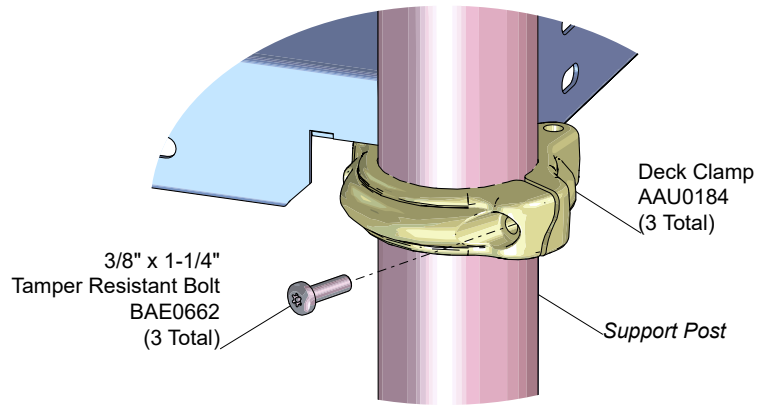
FOOTING NOTES

- All support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in [Handbook for Public Playground Safety](#) published by U. S. Consumer Product Safety Commission.

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

Installation Instructions

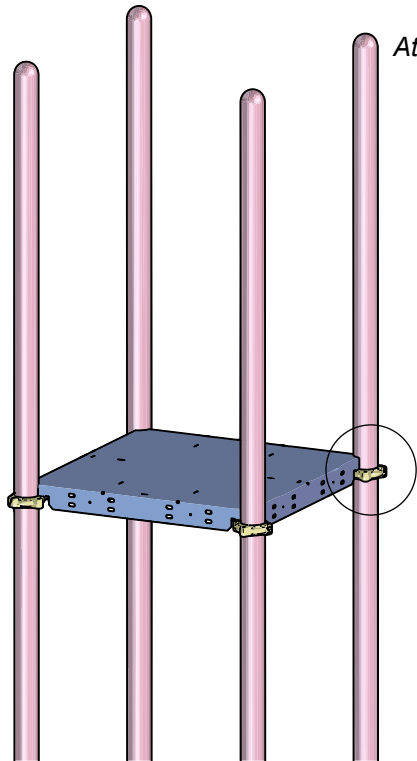
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 21.



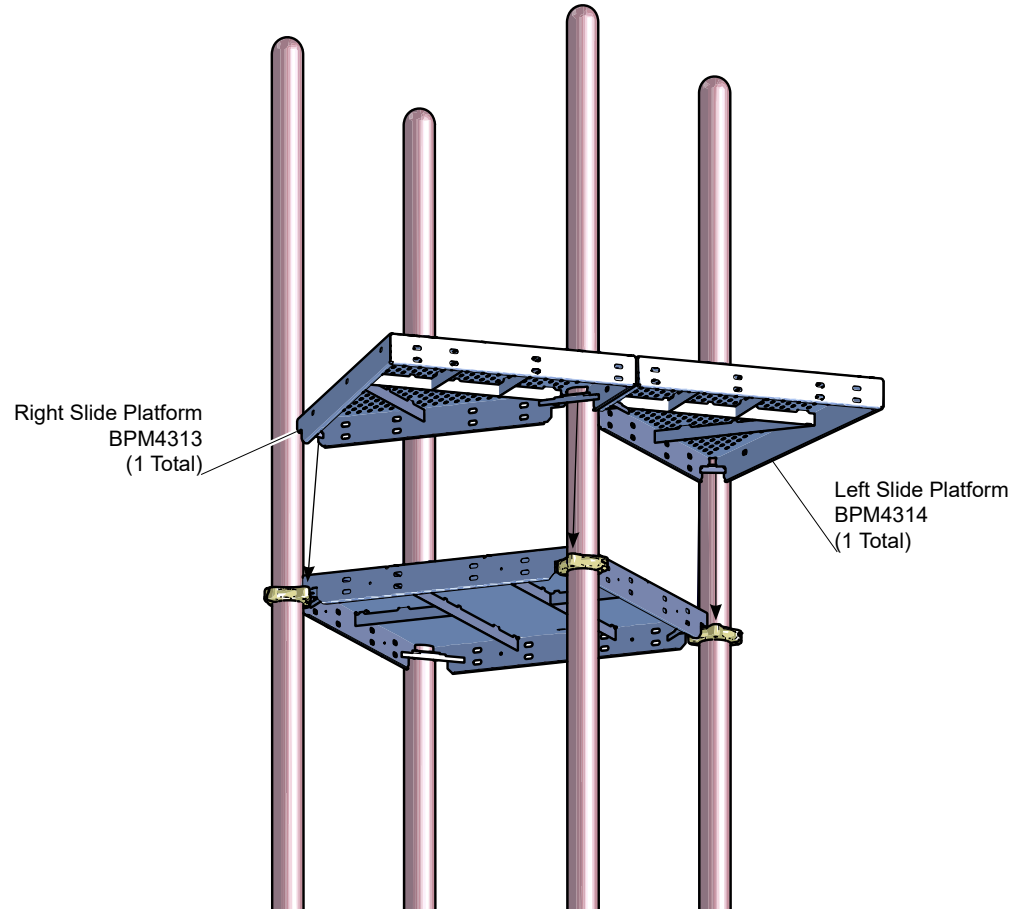
Detail A Step 4



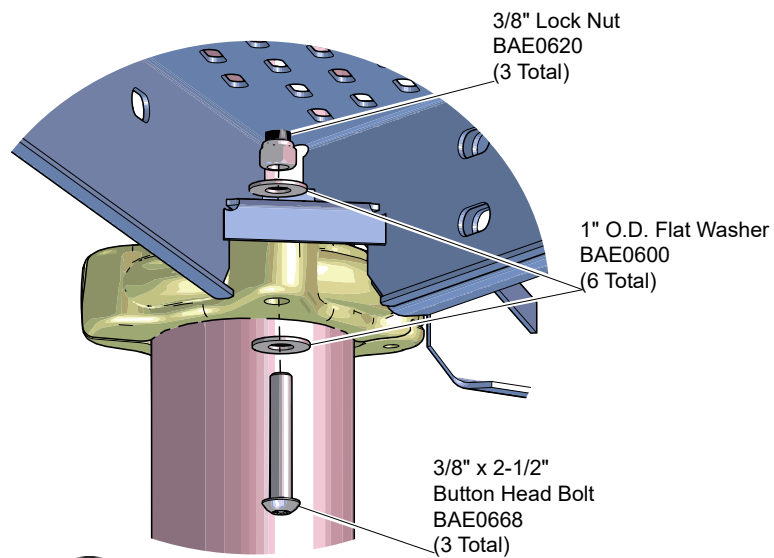
Attach the deck clamps to the existing support posts.



Note: One deck clamp per support post, refer to the Master Layout Drawing for placement.

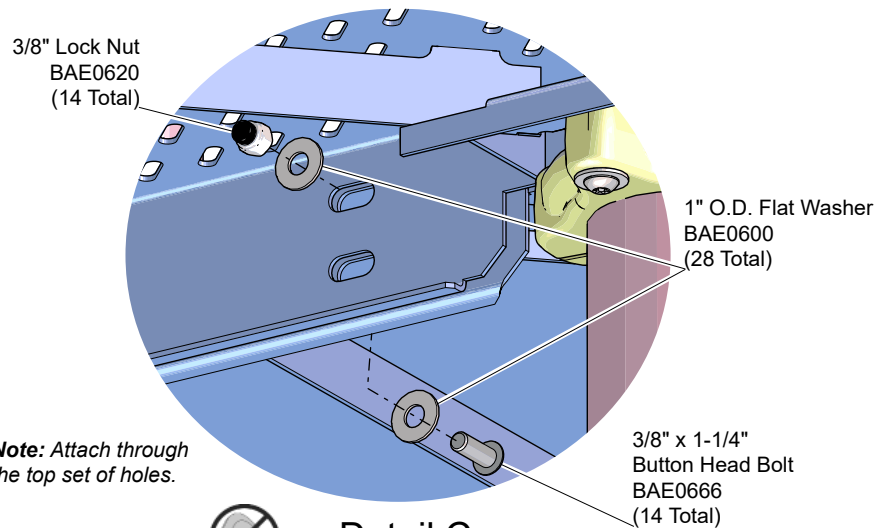


Installation Instructions



Detail B
Step 5

Attach the slide platforms to the deck clamps.

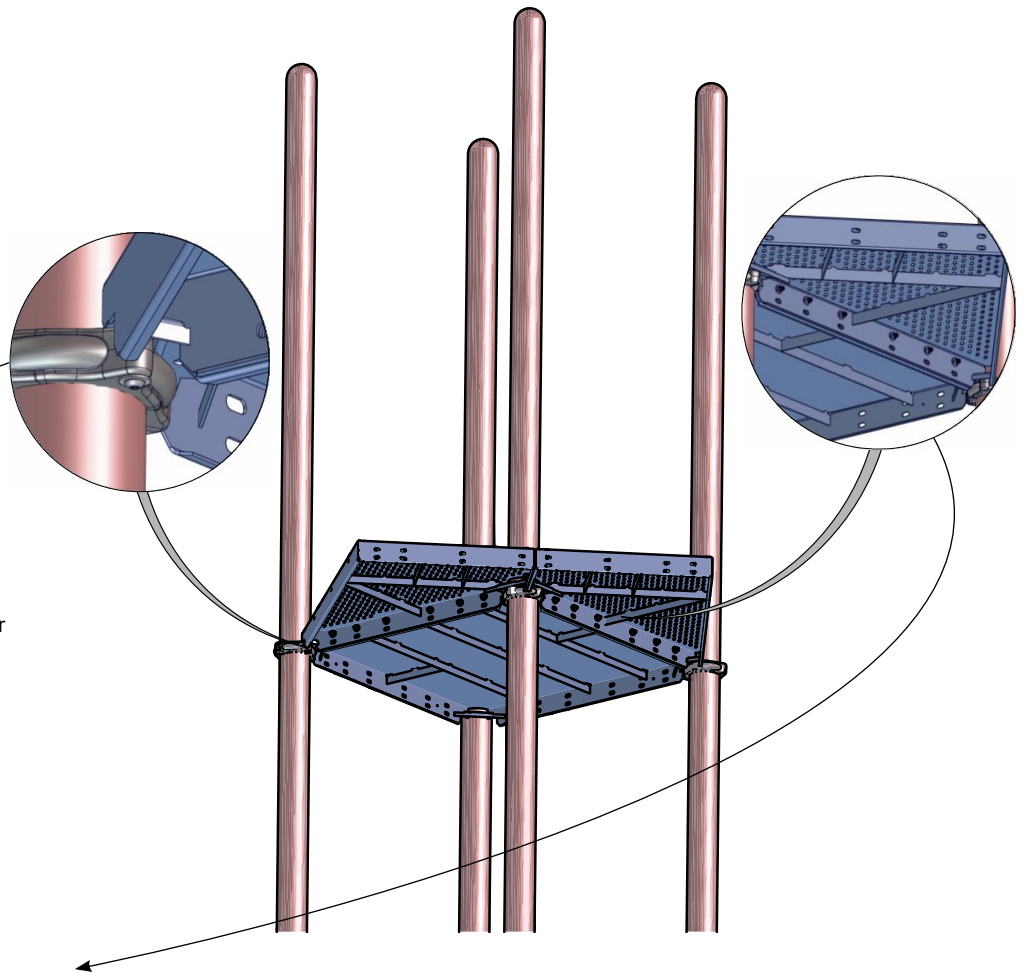


Note: Attach through
the top set of holes.

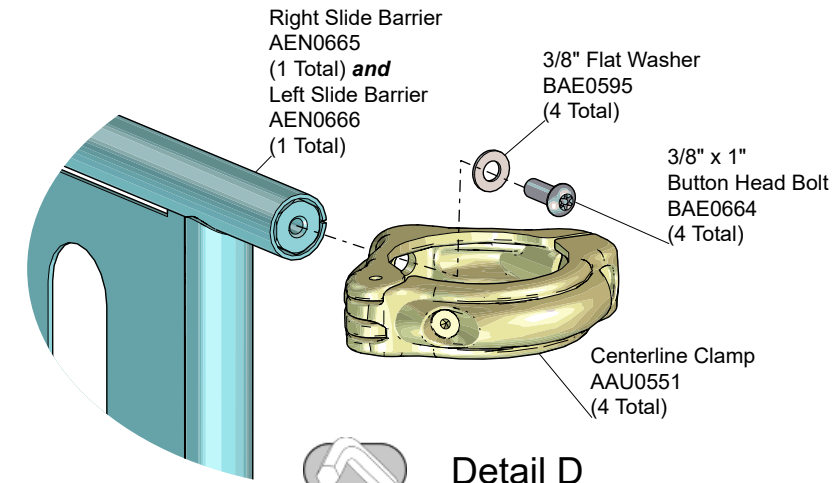


Detail C
Step 6

Attach the side platforms to the existing deck and to each other.

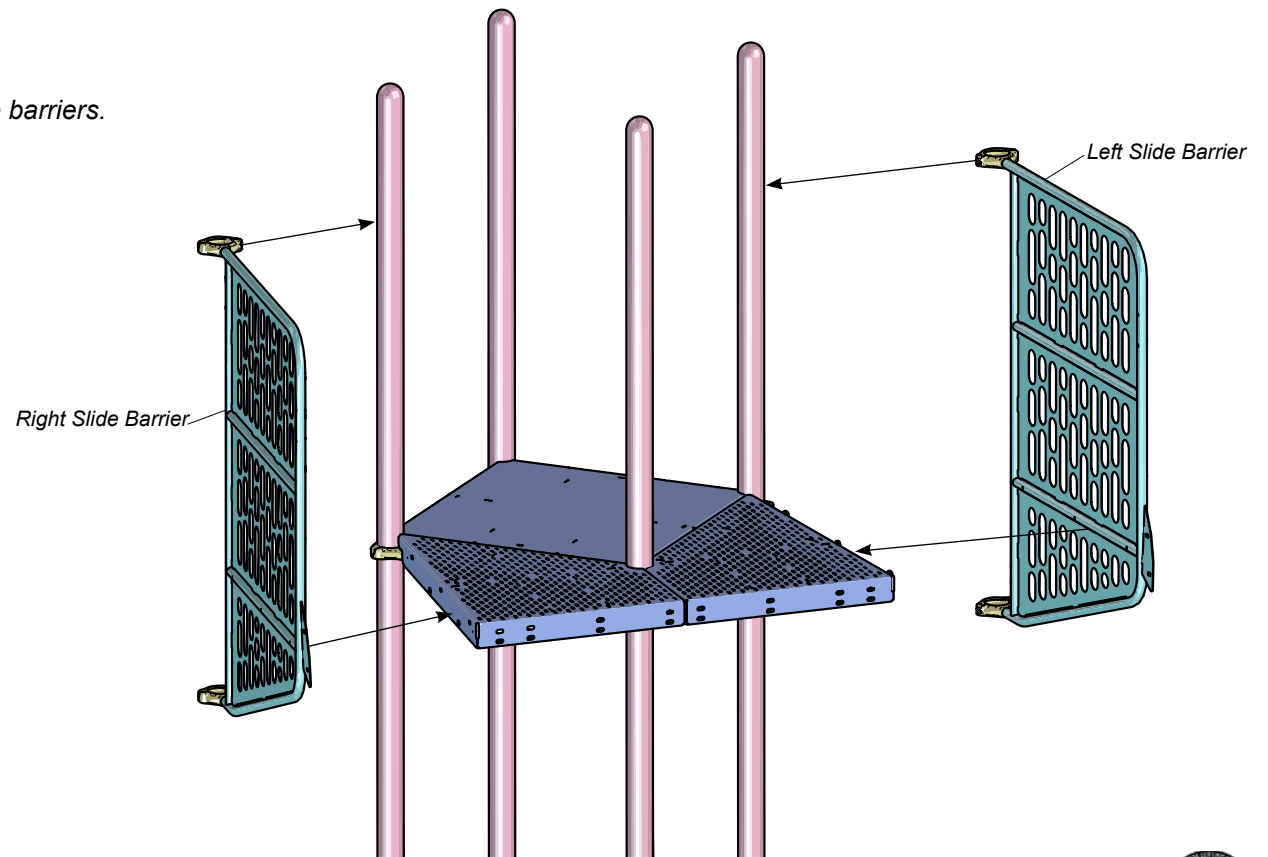
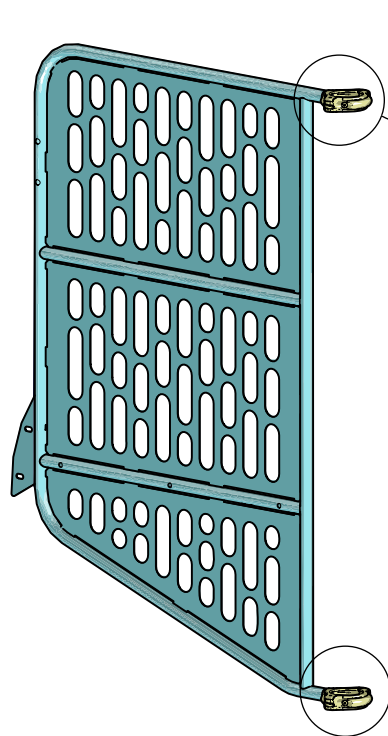


Installation Instructions

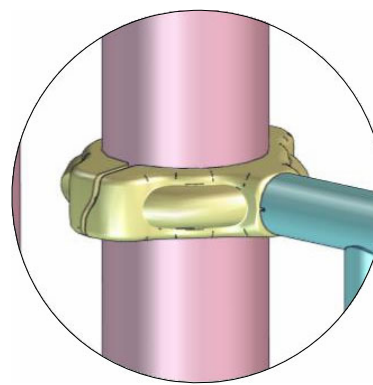
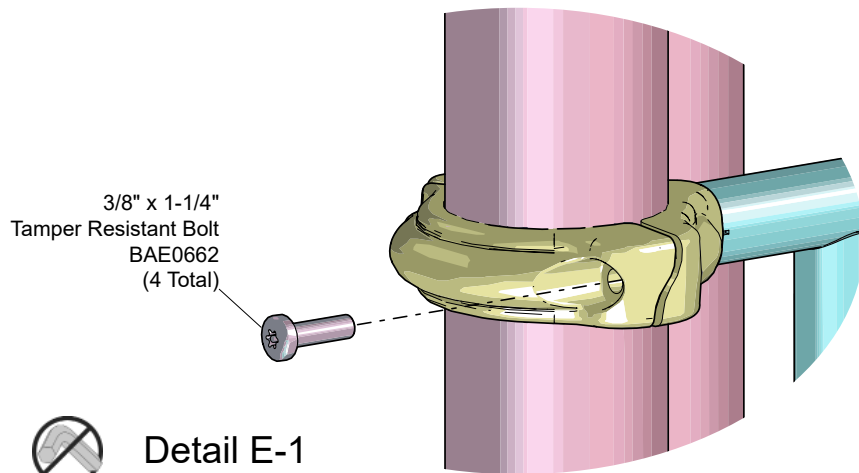


Detail D Step 7

Attach the clamps to the slide barriers.



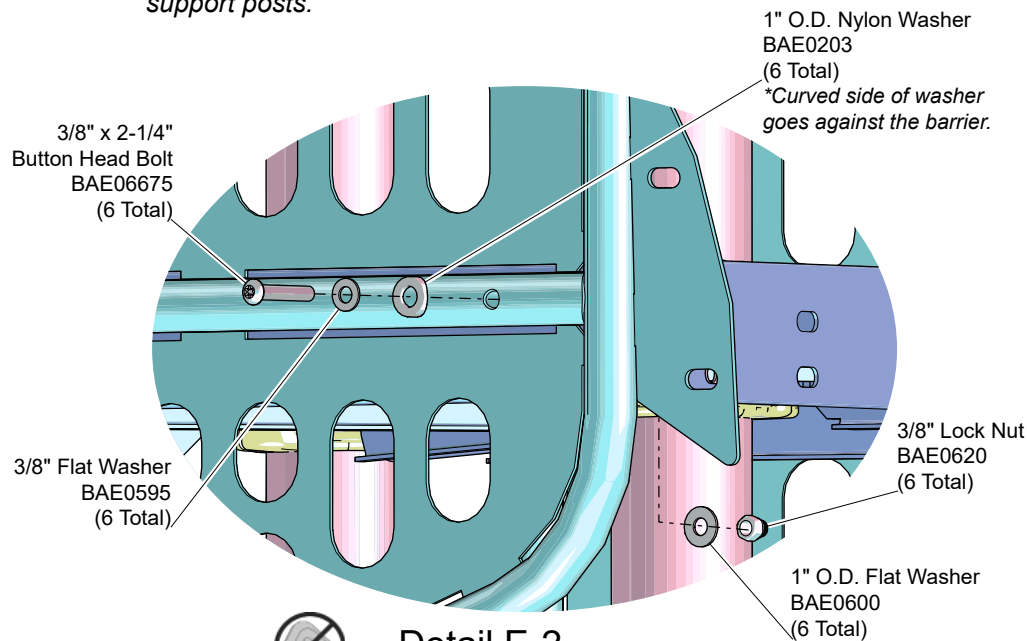
Installation Instructions



Detail E-1

Step 8

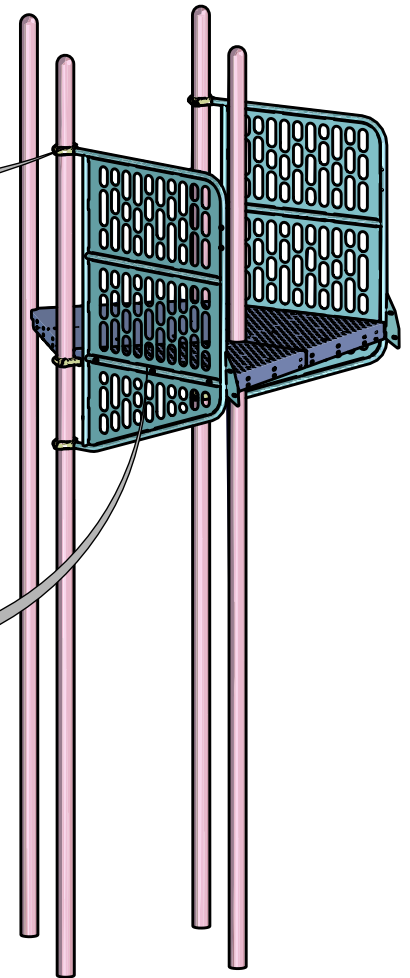
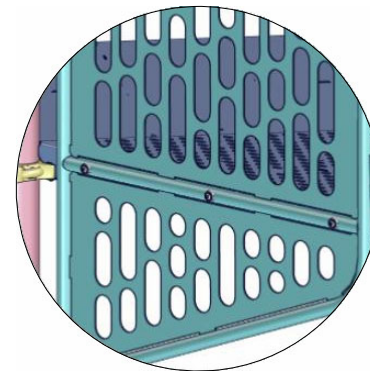
Attach the slide barriers to the support posts.



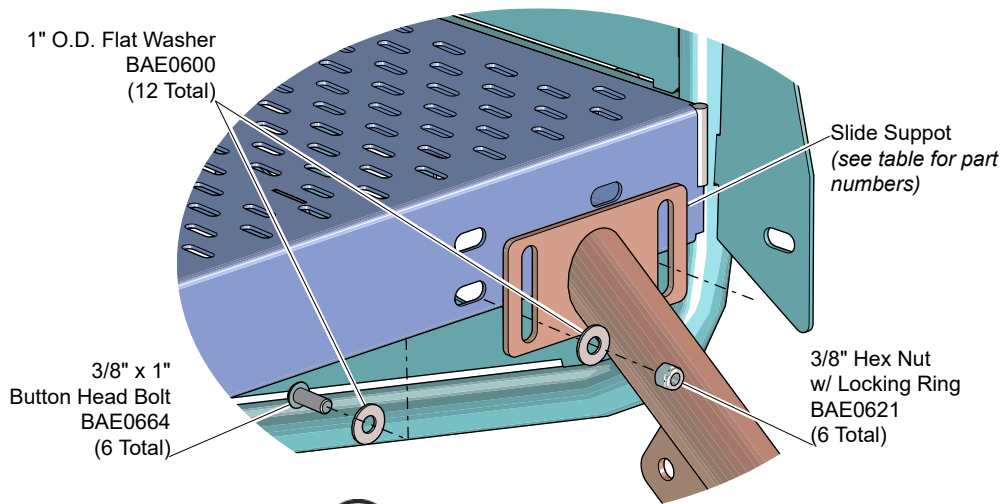
Detail E-2

Step 8

Attach the slide barriers to the slide platforms.



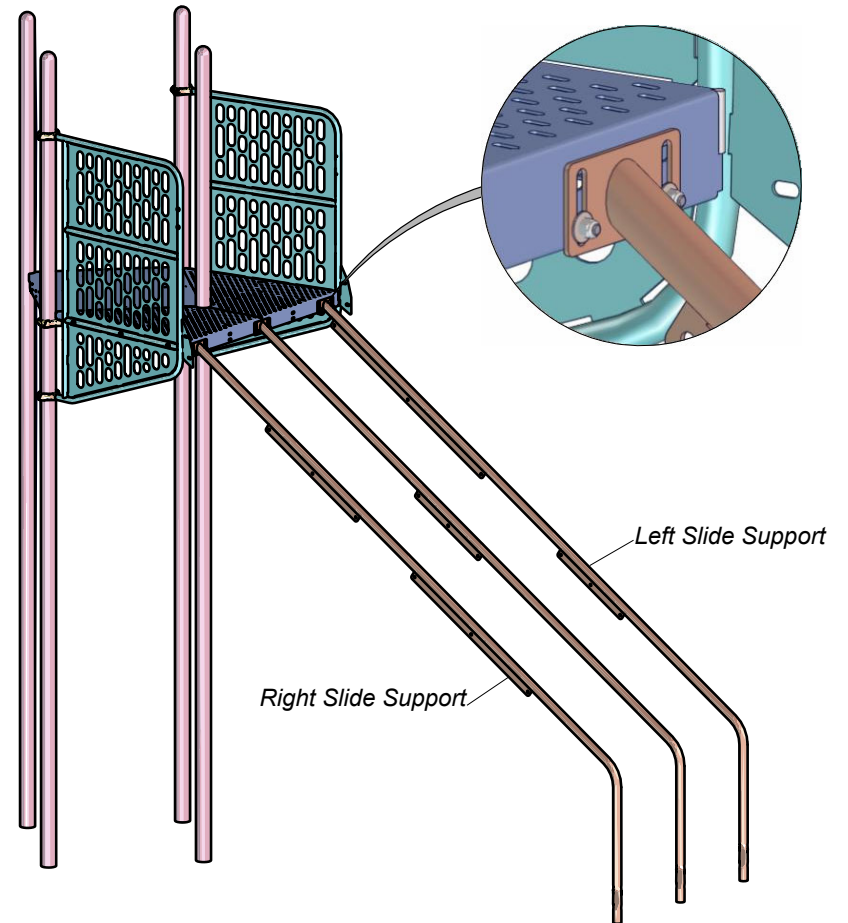
Installation Instructions



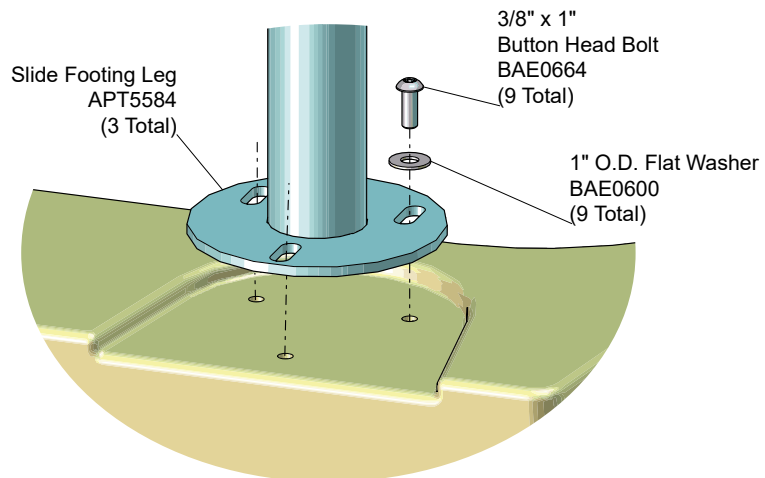
 **Detail F**
Step 9
Attach the slide supports to the platforms.

Important Note: Attach the slide supports to the platforms through the **bottom holes only**.

Slide Support Position	In-Ground Version Part Number	Surface Mount Version Part Number
Left	AFR2513	AFR2512
Middle	AFR2515	AFR2514
Right	AFR2517	AFR2516

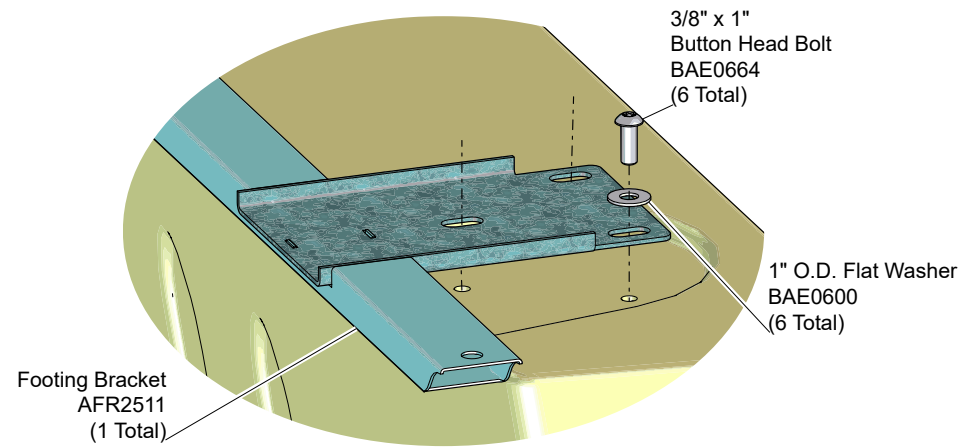
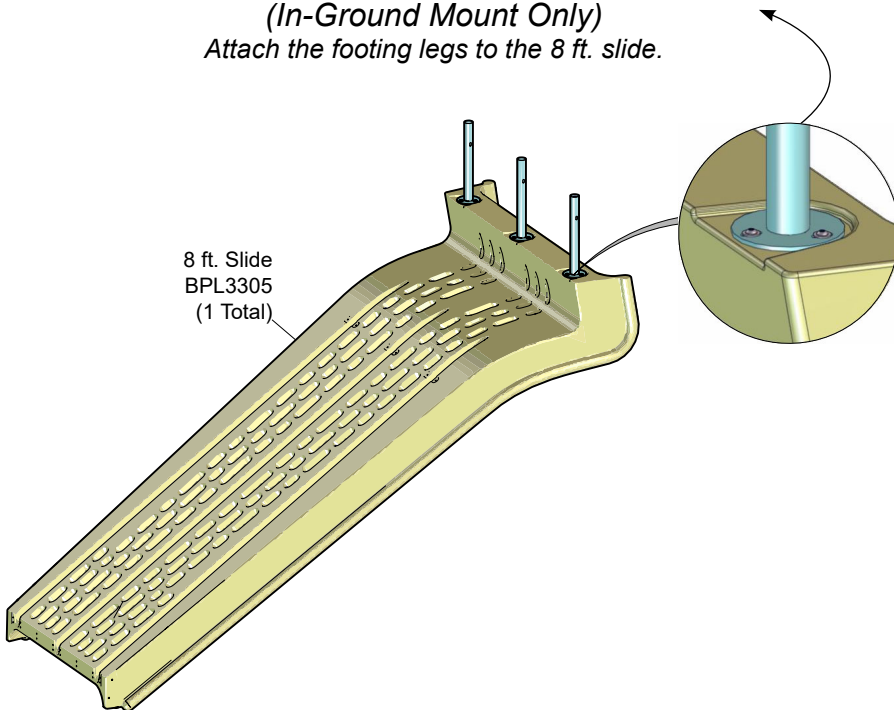


Installation Instructions



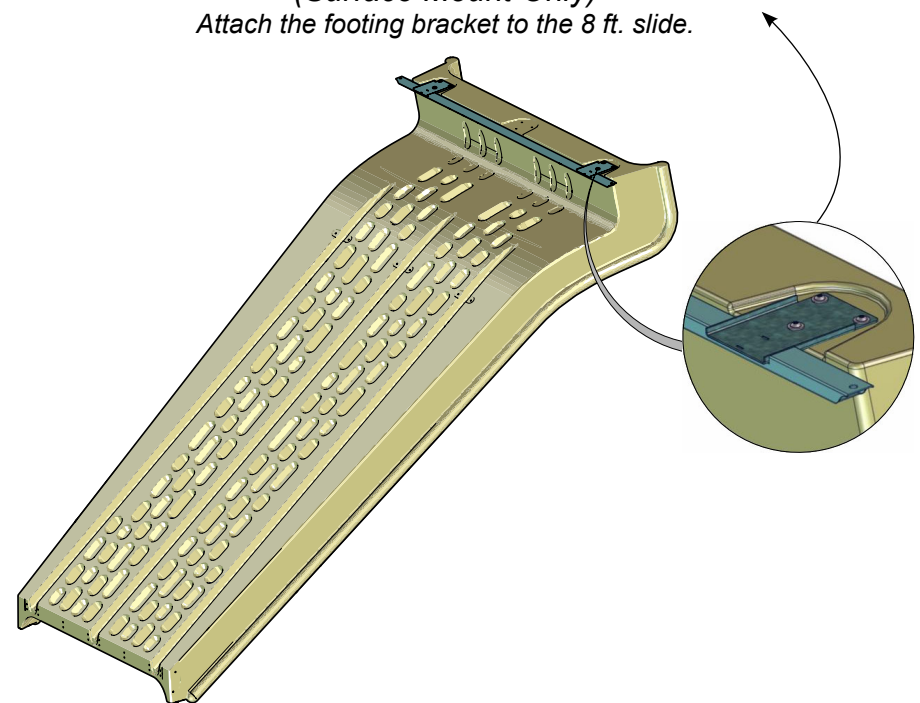
Detail G
Step 10

(In-Ground Mount Only)
Attach the footing legs to the 8 ft. slide.

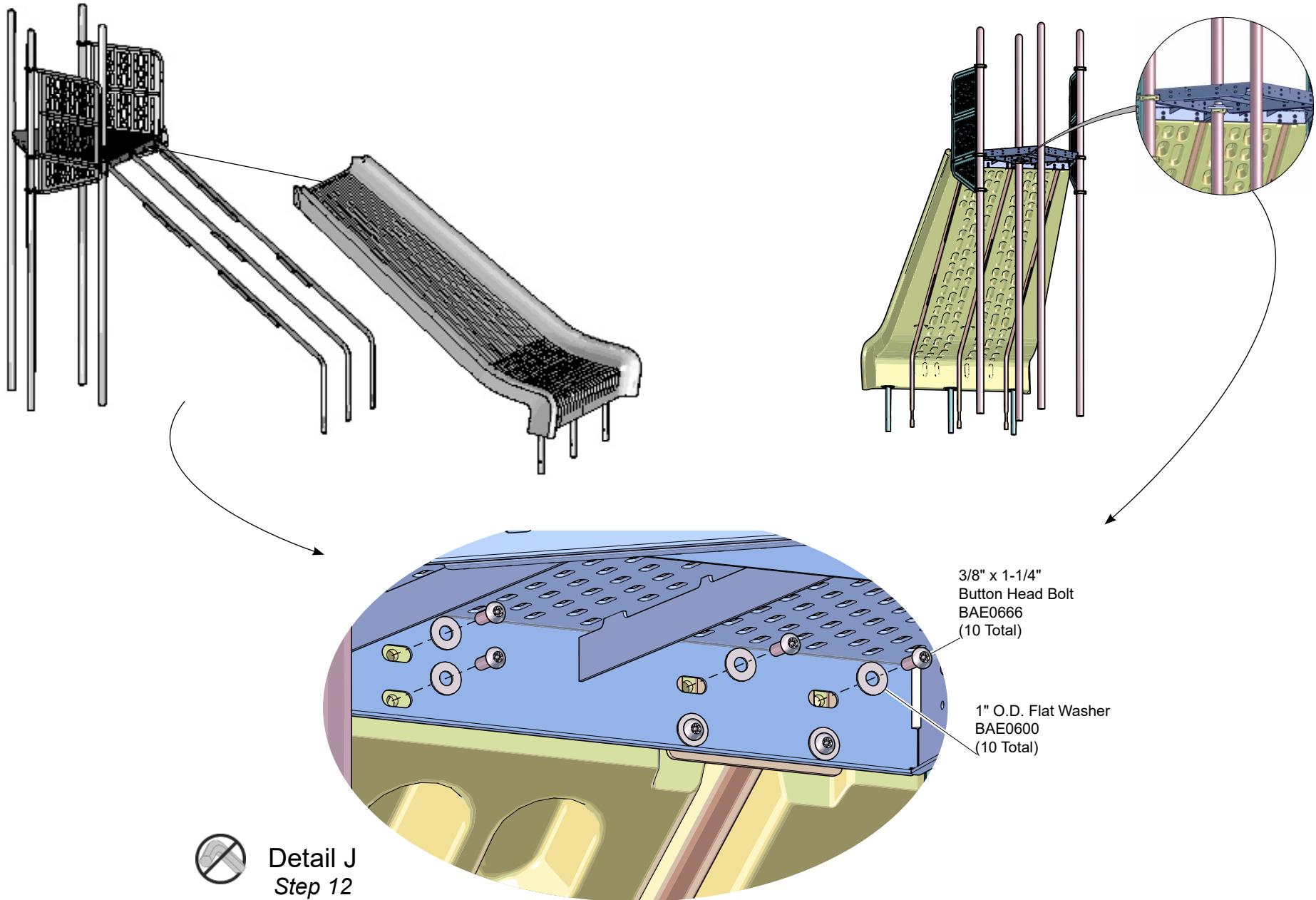


Detail H
Step 11

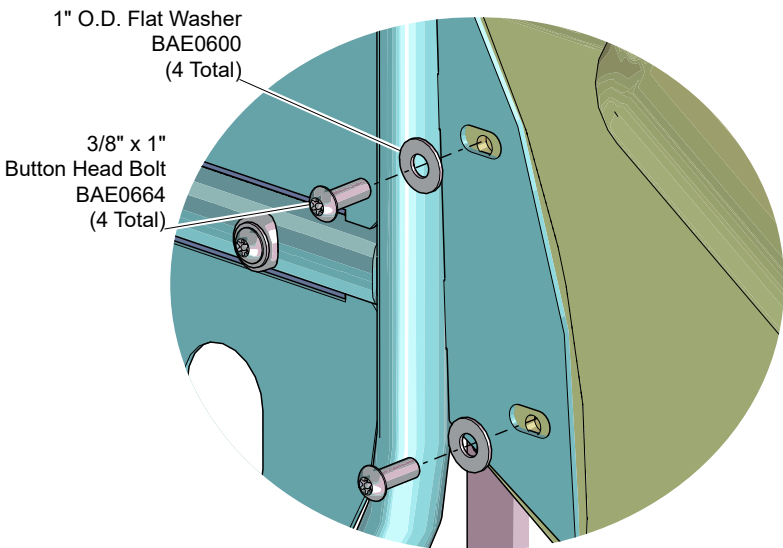
(Surface Mount Only)
Attach the footing bracket to the 8 ft. slide.



Installation Instructions

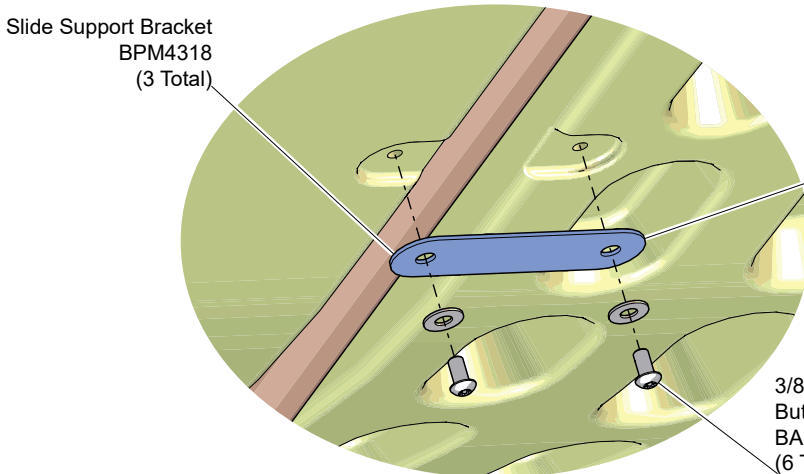


Installation Instructions



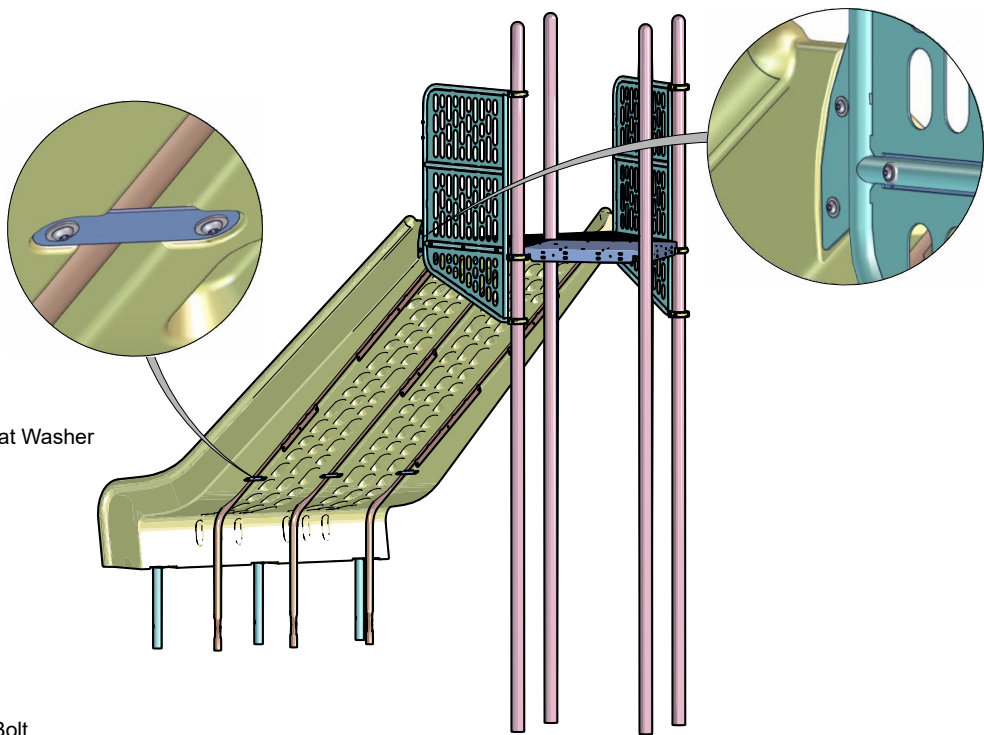
Detail K
Step 13

Attach the slide barriers to the slide.

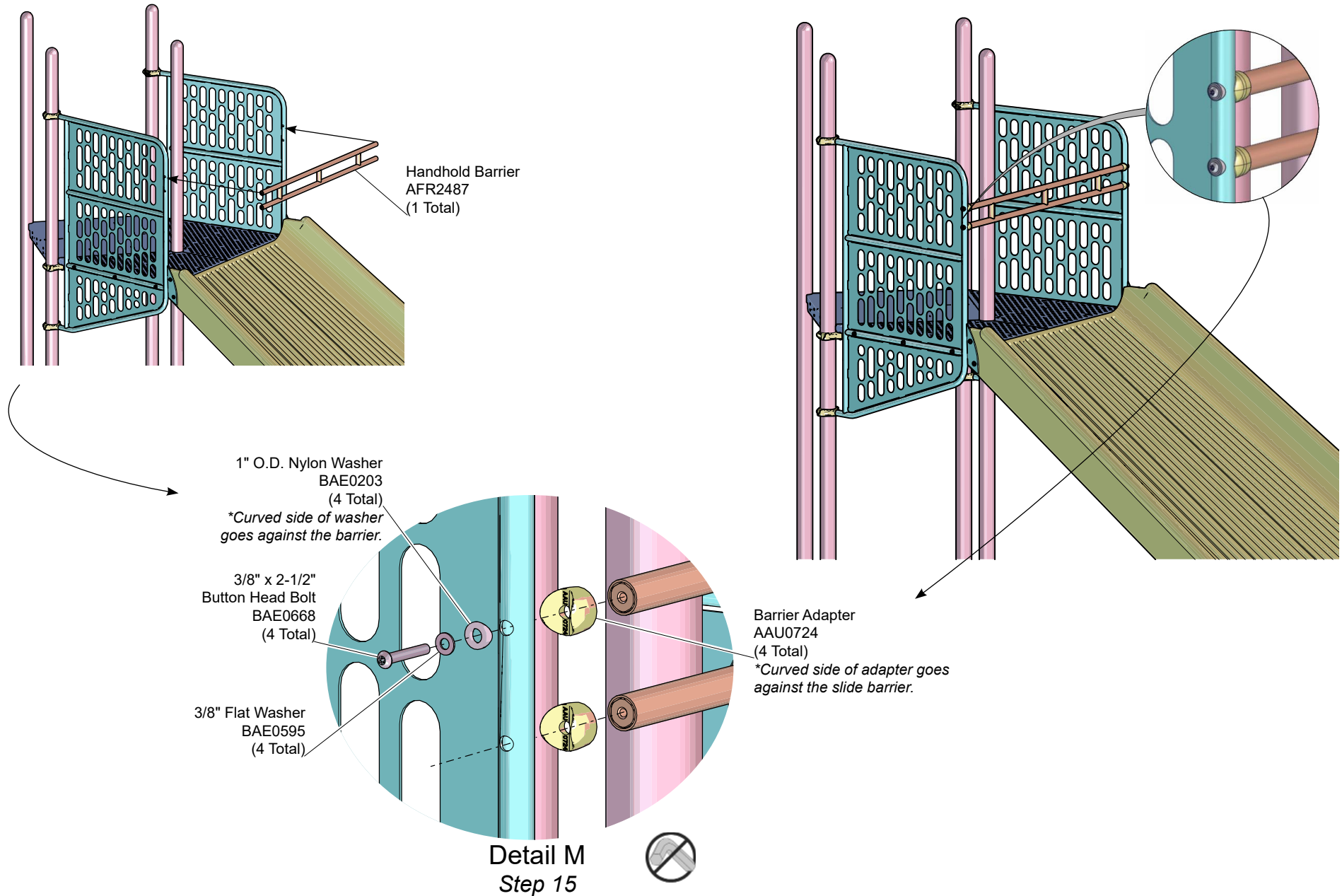


Detail L
Step 14

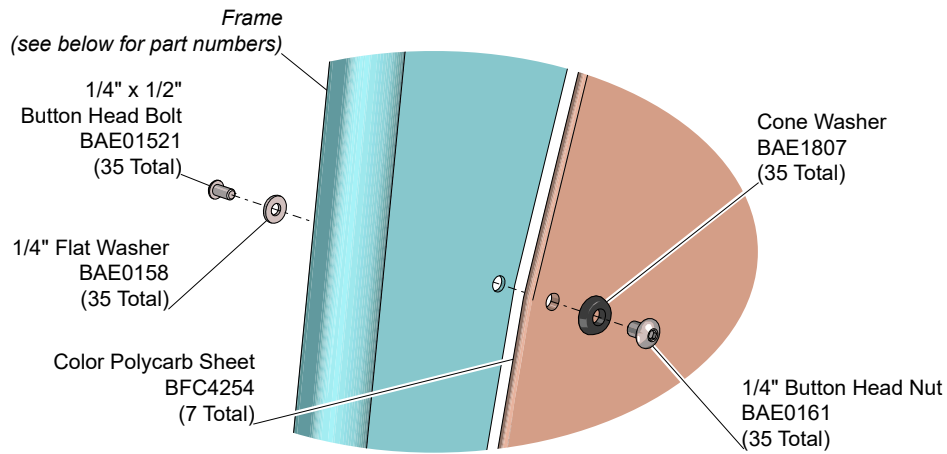
Attach the slide support brackets to the bottom of the slide.



Installation Instructions

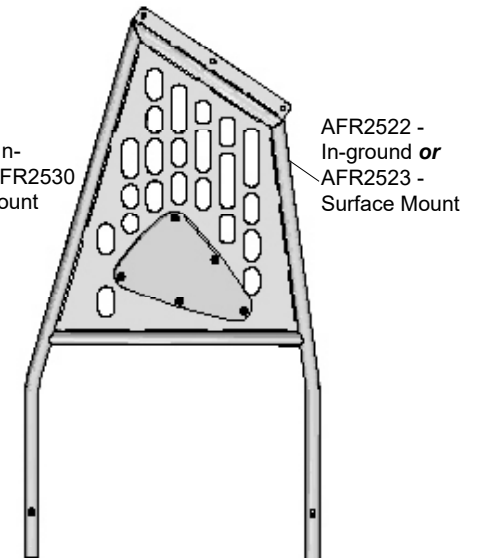
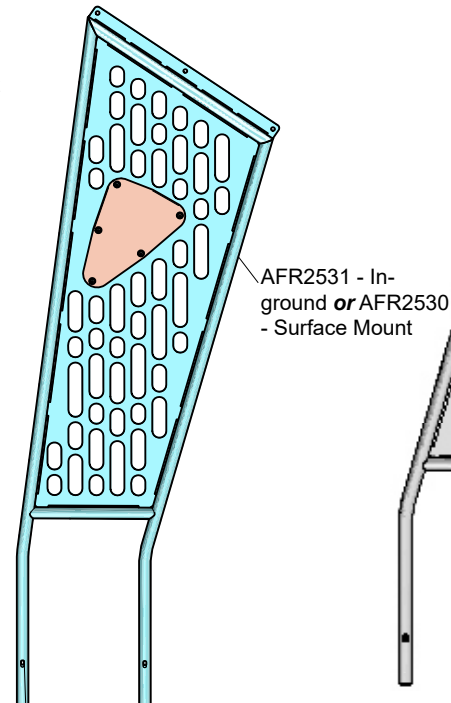
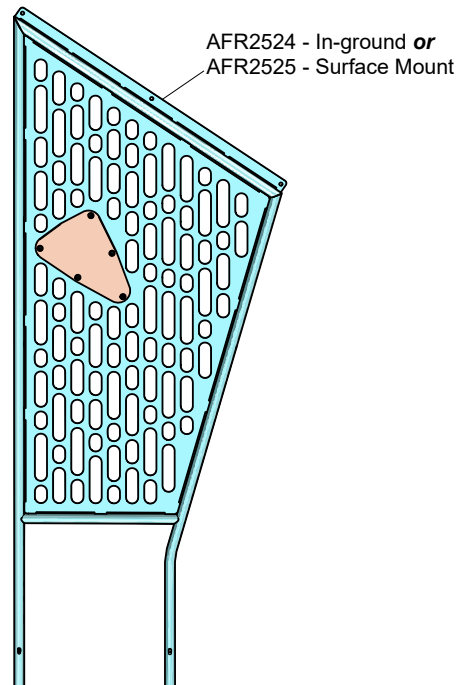
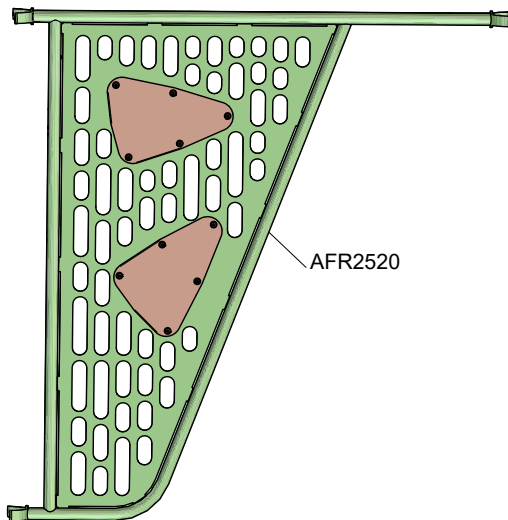
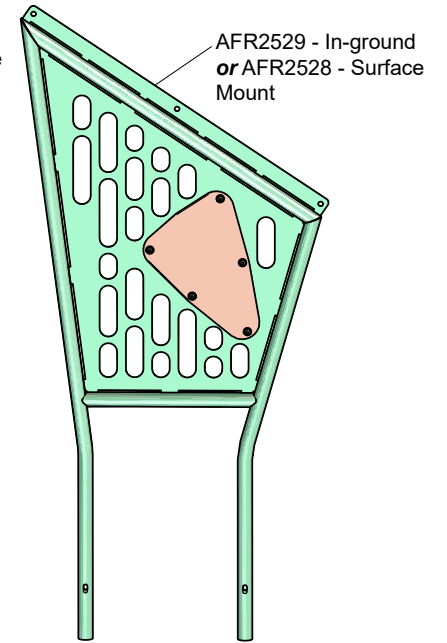
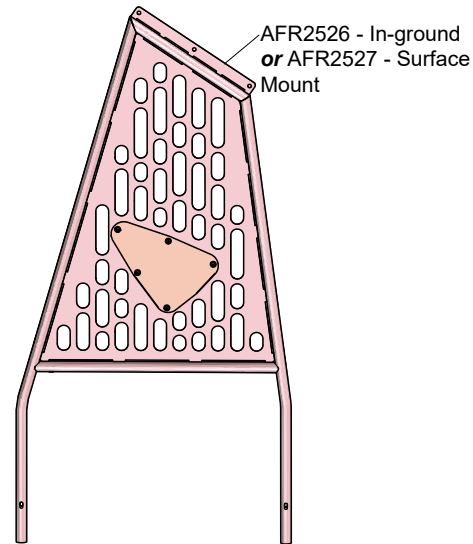


Installation Instructions

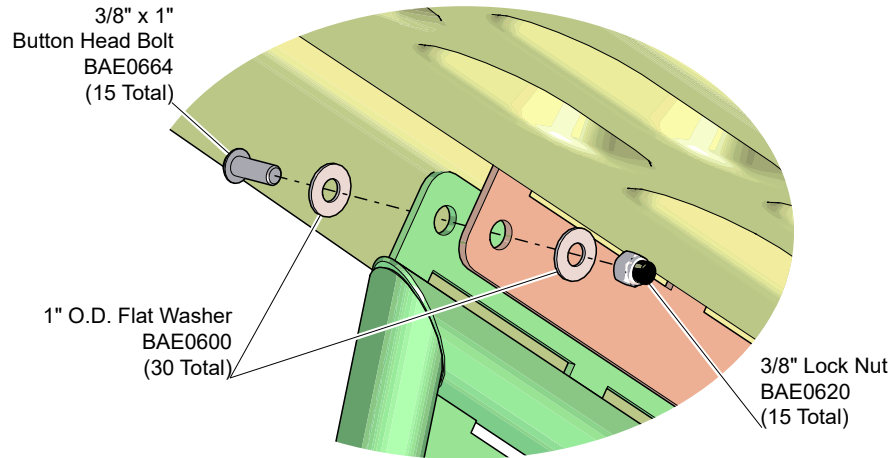


Detail N Step 16

Attach the color Polycarb sheets
to the frames.



Installation Instructions



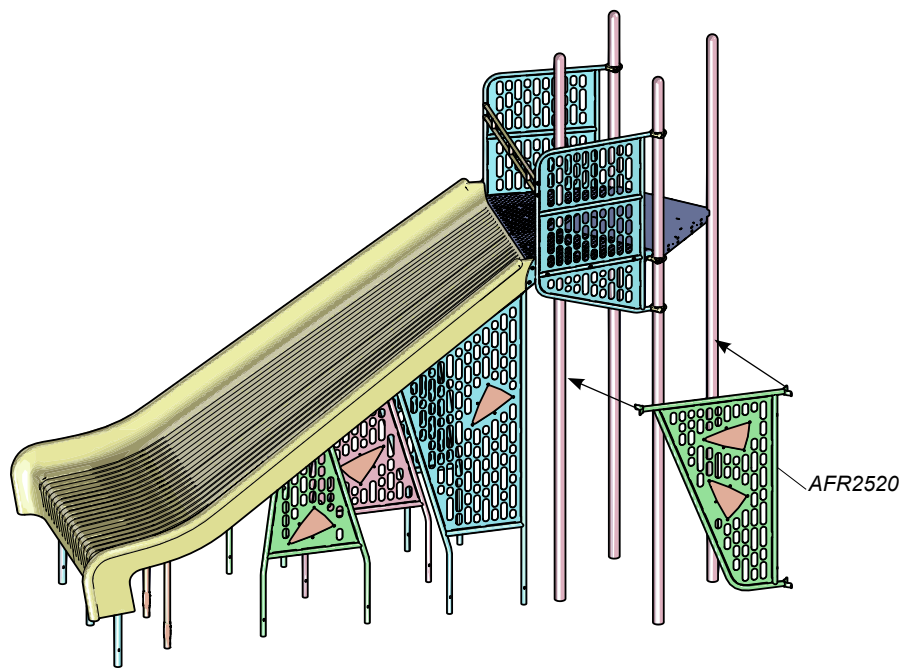
Detail O Step 17

Attach the frames to the slide supports.

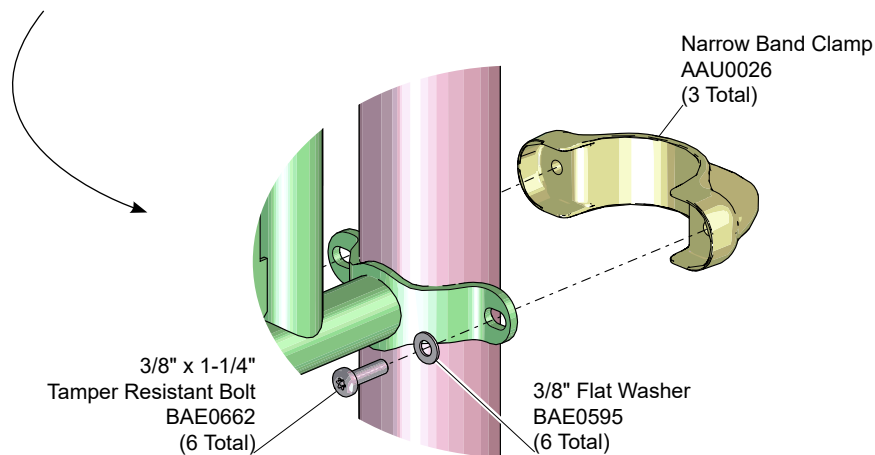
	In-Ground Frames	Surface Mount Frames
Left Slide Support	AFR2524 and AFR2522	AFR2525 and AFR2523
Middle Slide Support	AFR2526	AFR2527
Right Slide Support	AFR2531 and AFR25	AFR2530 and AFR2528



Installation Instructions

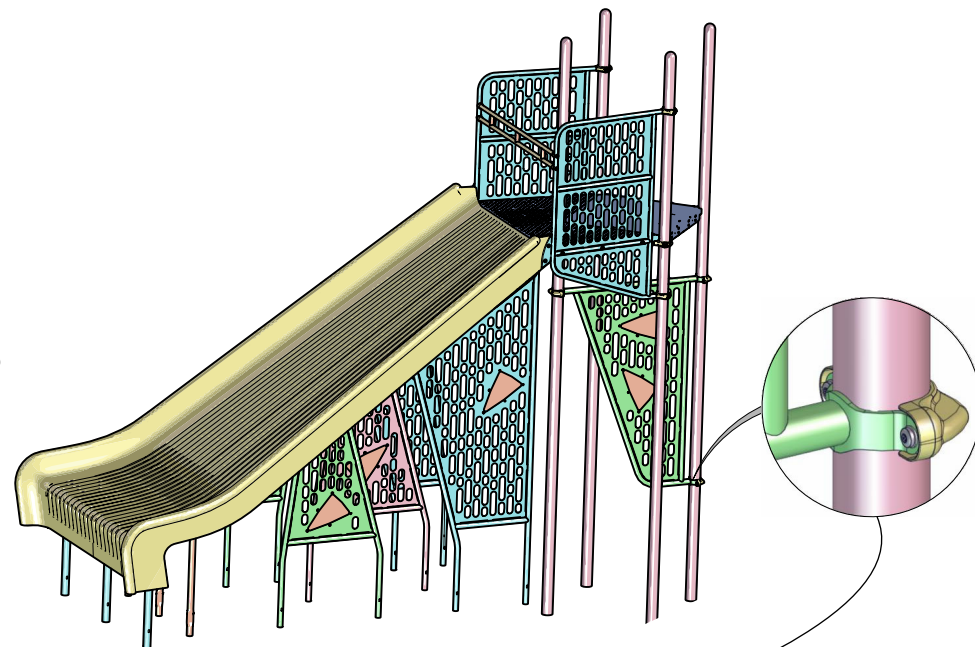


AFR2520

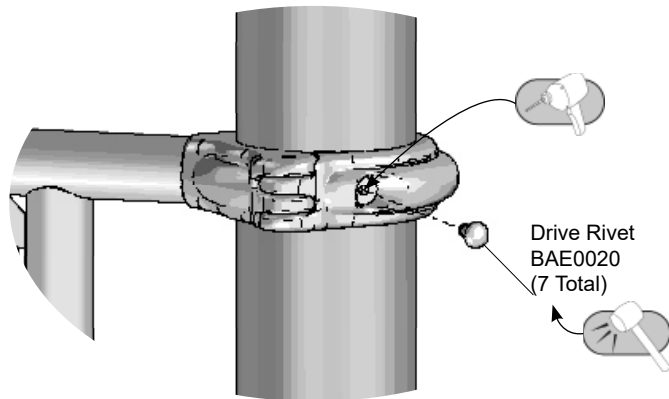


Detail P
Step 18

Attach the AFR2520 frame to the support posts.



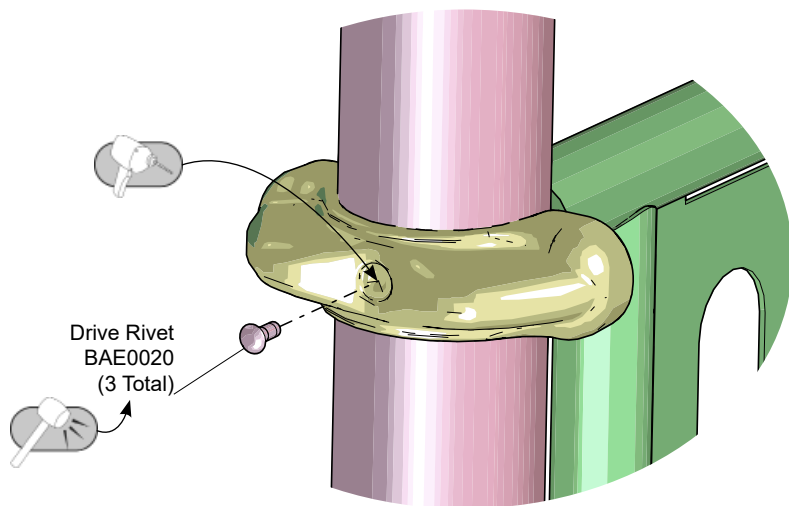
Installation Instructions



Detail Q-1

Step 20

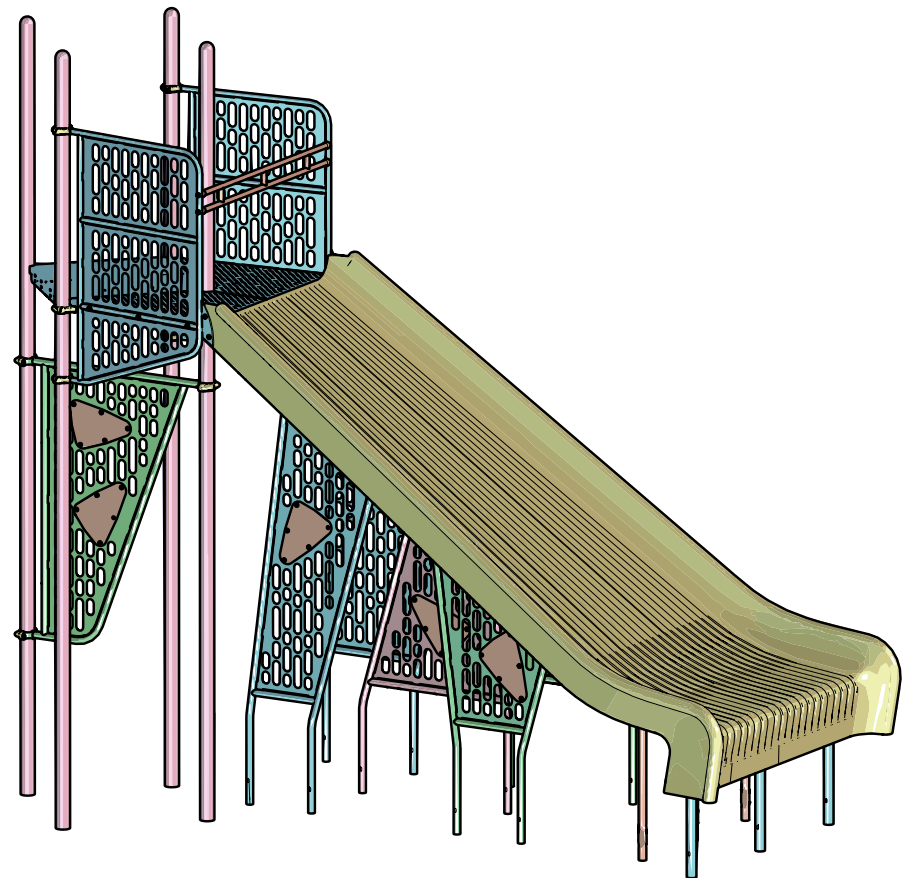
Secure the centerline clamps and deck clamps to the support posts.



Detail Q-2

Step 20

Secure the narrow band clamps to the support posts.



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component or Surface Mount Footing Details** on pages 6 and 7 of this installation document.

Step 4: Attach the deck clamps to the existing support posts. See **Detail A**. Close the deck clamps around the support posts, and attach as shown.

Note: One deck clamp per support post, refer to the Master Layout Drawing for placement.

Step 5: Attach the slide platforms to the deck clamps. See **Detail B**. Lower the slide platforms onto the deck clamps, and attach as shown.

Step 6: Attach the slide platforms to the existing deck and to each other. See **Detail C**. Align the holes on the slide platforms with the existing deck, and attach through the top set of holes on the platforms as shown. Attach the slide platforms to each other as shown.

Step 7: Attach the clamps to the slide barriers. See **Detail D**. Place the clamps over the ends of the slide barriers, and attach as shown.

Step 8: Attach the slide barriers to the support posts. See **Details E-1 and E-2**. Position the slide barriers against the sides of the slide platforms. Close the clamps around the support posts, and attach as shown.

Step 9: Attach the slide supports to the platforms. See **Detail F**. Place the bracket end of the slide supports against the platforms, align the holes, and attach as shown.

Important Note: Attach the slide supports to the platforms through the bottom holes only.

Step 10 (In-Ground Mount Only): Attach the footing legs to the 8 ft. slide. See **Detail G**. Position the footing legs on the bottom of the slide, and attach as shown.

Step 11 (Surface Mount Only): Attach the footing bracket to the 8 ft. slide. See **Detail H**. Position the footing bracket to the bottom of the slide, and attach as shown.

Step 12: Attach the slide to the platforms. See **Detail J**. With adequate manpower, position the slide on top of the slide supports and against the platforms, and attach as shown.

Step 13: Attach the slide barriers to the slide. See **Detail K**. With the holes aligned on the side of the slide and the barriers, attach as shown.

Step 14: Attach the slide support brackets to the bottom of the slide. See **Detail L**. Place the slide support bracket against the bottom of the slide, and attach as shown.

Step 15: Attach the handhold barrier to the slide barriers. See **Detail M**. Position the handhold barrier between the slide barriers, and attach as shown.

Step 16: Attach the Polycarb sheets to the frames. See **Detail N**. Place the Color Polycarb sheet against the opening in the frame, align the holes, and attach as shown.

Step 17: Attach the frames to the slide supports. See **Detail O**. Place the frames under the slide, align with the holes on the slide supports, and attach as shown.

Step 18: Attach the AFR2521 frame to the support posts. See **Detail P**. Position the frame between the support posts and attach as shown.

Installation Instructions

Final Details.

Step 19: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

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

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

Step 20: Install drive rivets. See **Details Q-1 and Q-2**. After the equipment assembly is complete, install a drive rivet in each pipe clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

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



Bill of Materials

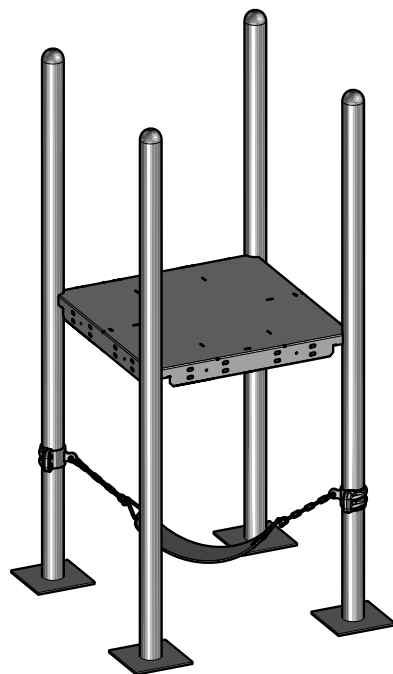
PM4695 - MIGHTY DESCENT W/ PRISM PASS

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	3
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AAU0724	CASTING - 1.315" DIA ADAPTER	4
AEN0665	FRAME - 63.32" x 50.90" x 1.32" (RIGHT)	1
AEN0666	FRAME - 63.32" x 50.90" x 1.32" (LEFT)	1
AFR2487	FRAME - 58.13" x 5.57" x 1.32"	1
AFR2513	FRAME - 122.20" x 119.07" x 5.75" LEFT	1
AFR2515	FRAME - 122.20" x 119.07" x 5.57" MIDDLE	1
AFR2517	FRAME - 122.20" x 119.07" x 5.75" RIGHT	1
AFR2520	FRAME - 67.62" x 70.50" x 7.81"	1
AFR2522	FRAME - 69.97" x 36.39" x 1.66"	1
AFR2524	FRAME - 114.42" x 44.81" x 1.66"	1
AFR2526	FRAME - 85.44" x 42.83" x 8.00"	1
AFR2529	FRAME - 74.01" x 35.11" x 8.00"	1
AFR2531	FRAME - 102.32" x 37.58" x 1.66"	1
APT5584	POST - SLIDE FOOTING	3
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	10
BAE0158	WASHER - 1/4" SAE FLAT	35
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	35
BAE0203	WASHER - NYLON COVERED .53" I.D. x 1.00" O.D.	10
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	1" O.D. x .437" I.D. STAINLESS STEEL FLAT WASHER	111
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	38
BAE0621	NUT - 3/8"-16 ZINC HEX w/ LOCKING RING	6
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	13
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	38
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - SS	24
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - SS	7
BAE01521	BOLT - 1/4"-20 x .50" BUTTON HEAD - SS	35
BAE1807	CONE WASHER - .89" O.D. x .39" I.D. x .20"	35
BAE06675	BOLT - 3/8"-16 x 2.25" BUTTON HEAD - SS	6
BFC4254	COLOR POLYCARB - 17.63" x 11.55" x .25"	7
BPL3305	SLIDE - 8' DISTINCTIVE	1
BPM4313	PLATFORM - DISTINCTIVE SLIDE (PM) (RIGHT)	1
BPM4314	PLATFORM - DISTINCTIVE SLIDE (PM) (LEFT)	1
BPM4318	SHEET METAL - 6.75" x 1.75" x 12GA	3

PM4695S - MIGHTY DESCENT W/ PRISM PASS SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	3
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AAU0724	CASTING - 1.315" DIA ADAPTER	4
AEN0665	FRAME - 63.32" x 50.90" x 1.32" (RIGHT)	1
AEN0666	FRAME - 63.32" x 50.90" x 1.32" (LEFT)	1
AFR2487	FRAME - 58.13" x 5.57" x 1.32"	1
AFR2511	FRAME - 84.00" x 8.75" x 1.00"	1
AFR2512	FRAME - 125.07" x 97.07" x 8.00" LEFT	1
AFR2514	FRAME - 125.07" x 97.07" x 8.00" MIDDLE	1
AFR2516	FRAME - 125.07" x 97.07" x 8.00" RIGHT	1
AFR2520	FRAME - 67.62" x 70.50" x 7.81"	1
AFR2523	FRAME - 47.97" x 42.73" x 8.00"	1
AFR2525	FRAME - 92.17" x 47.98" x 8.00"	1
AFR2527	FRAME - 63.44" x 49.06" x 8.00"	1
AFR2528	FRAME - 52.01" x 35.11" x 8.00"	1
AFR2530	FRAME - 80.32" x 40.13" x 8.00"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	10
BAE0158	WASHER - 1/4" SAE FLAT	35
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	35
BAE0203	WASHER - NYLON COVERED .53" I.D. x 1.00" O.D.	10
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	1" O.D. x .437" I.D. STAINLESS STEEL FLAT WASHER	108
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	38
BAE0621	NUT - 3/8"-16 ZINC HEX w/ LOCKING RING	6
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	13
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	35
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - SS	24
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - SS	7
BAE01521	BOLT - 1/4"-20 x .50" BUTTON HEAD - SS	35
BAE1807	CONE WASHER - .89" O.D. x .39" I.D. x .20"	35
BAE06675	BOLT - 3/8"-16 x 2.25" BUTTON HEAD - SS	6
BFC4254	COLOR POLYCARB - 17.63" x 11.55" x .25"	7
BPL3305	SLIDE - 8' DISTINCTIVE	1
BPM4313	PLATFORM - DISTINCTIVE SLIDE (PM) (RIGHT)	1
BPM4314	PLATFORM - DISTINCTIVE SLIDE (PM) (LEFT)	1
BPM4318	SHEET METAL - 6.75" x 1.75" x 12GA	3





Assembly View




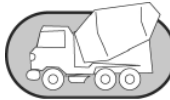



Installation Instructions

Playmakers® Model PM4896
Sling Seat

Installation Preparation

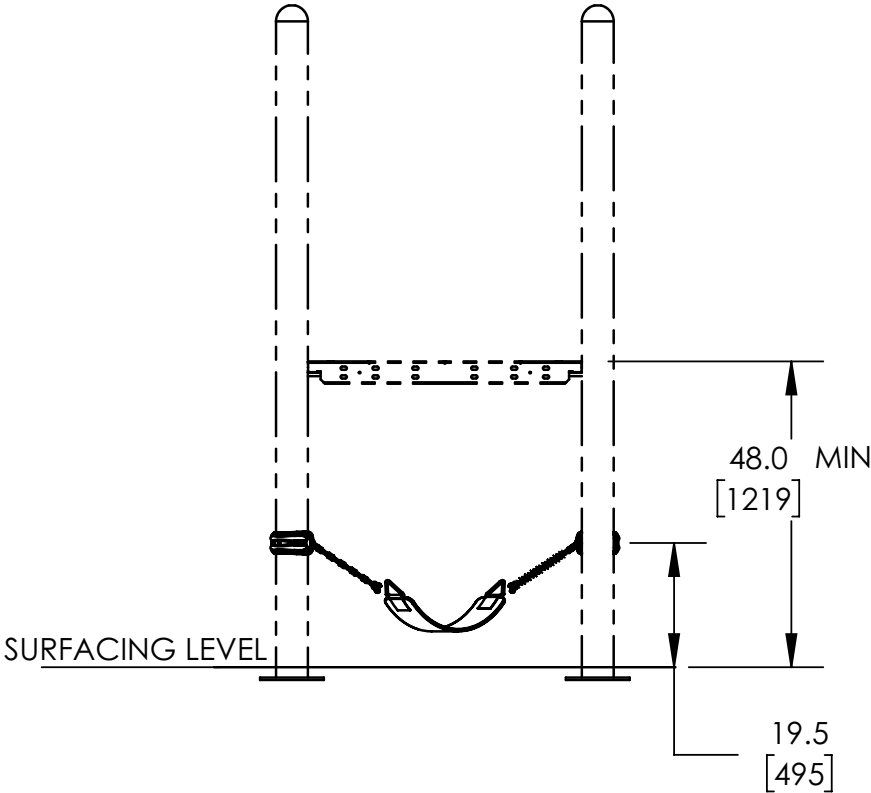
Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

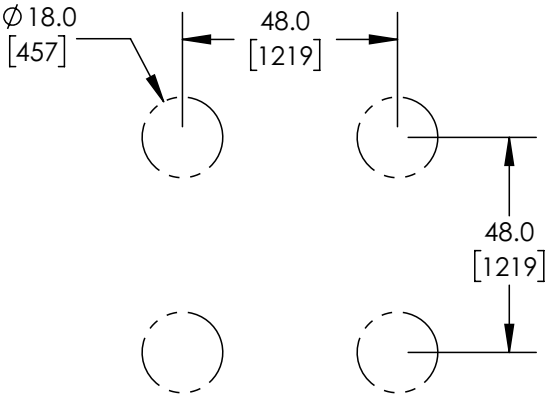
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

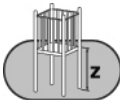
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views



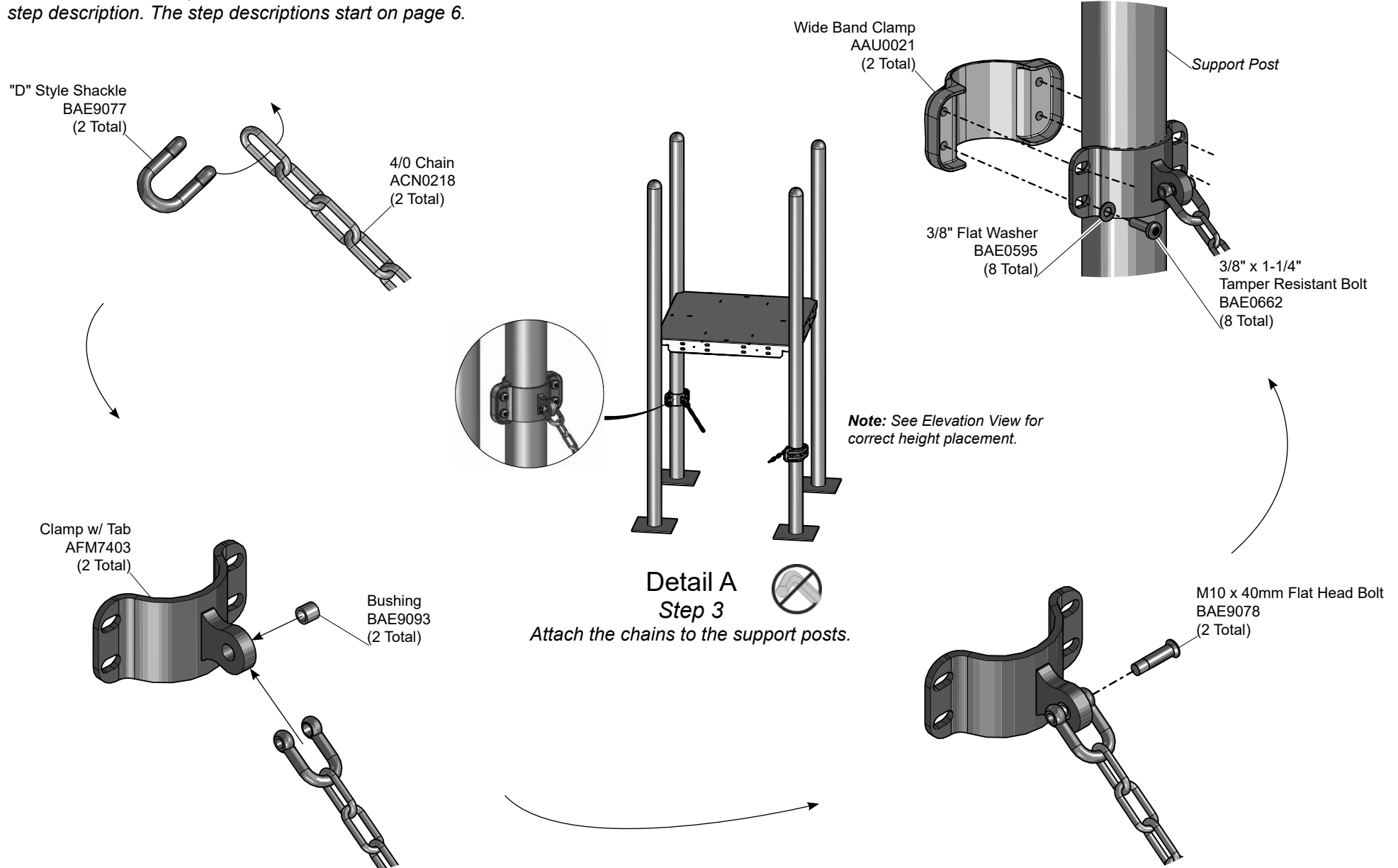
Footing Diagram



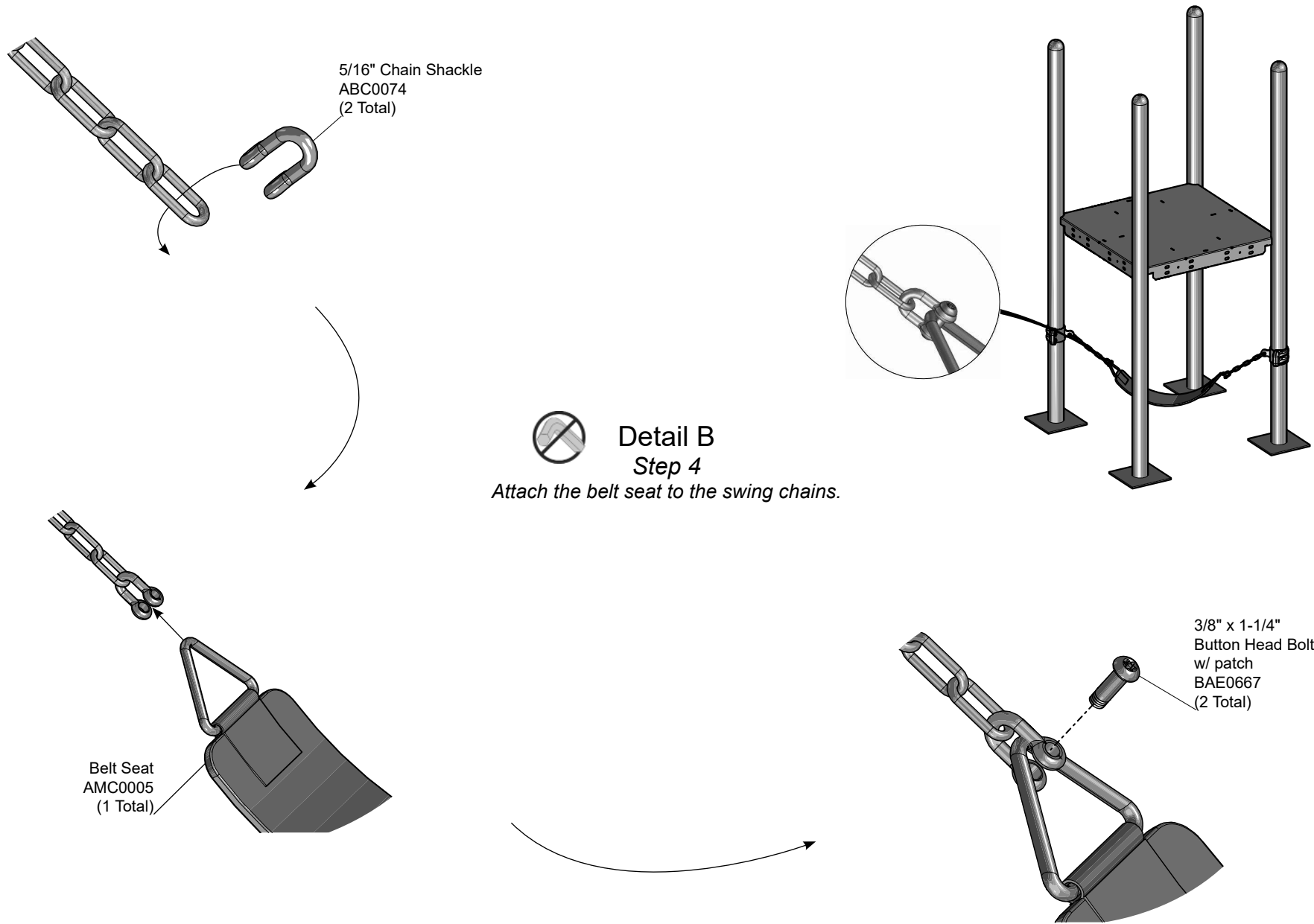
Critical Fall Height:
 ASTM F1487: 10" (254 mm)
 CSA-Z614: 254 mm
 EN1176: 254 mm

Installation Instructions

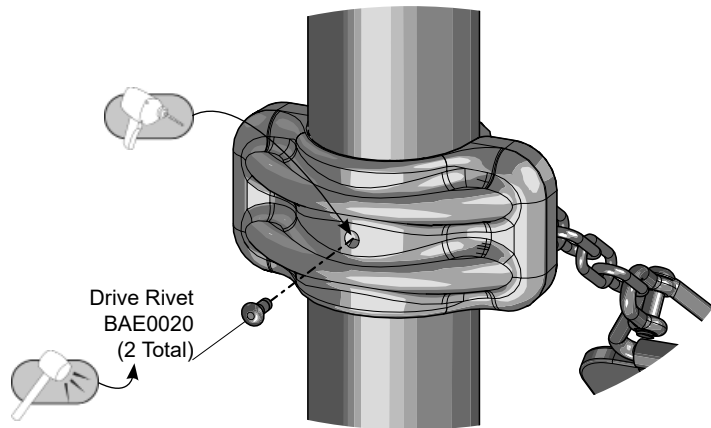
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions

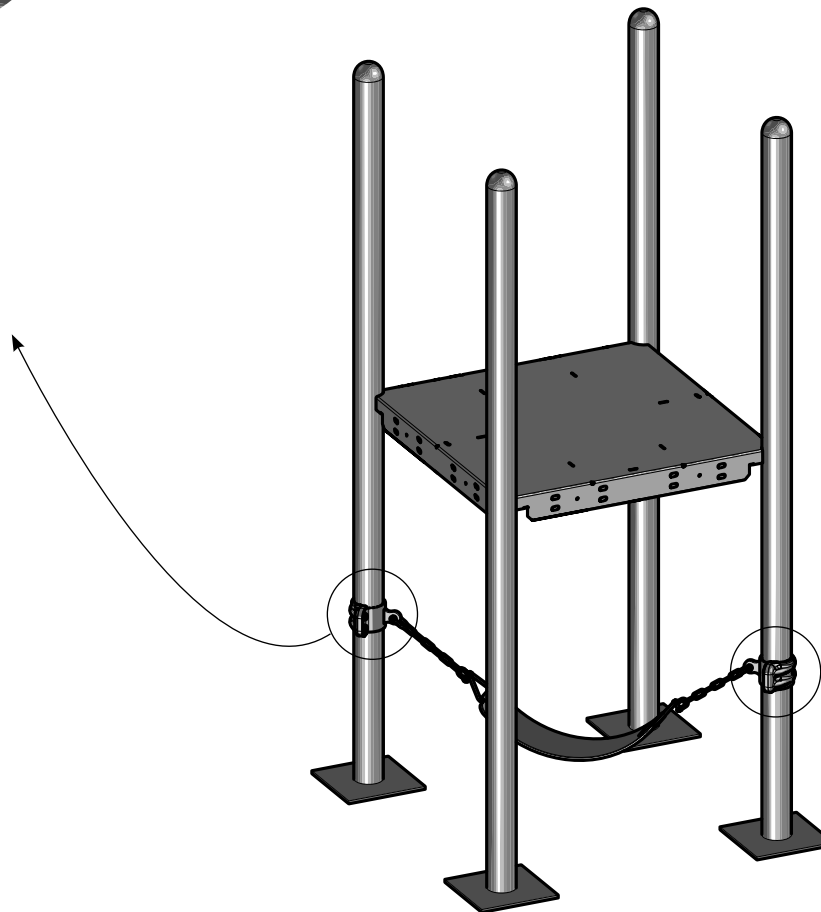


Installation Instructions



Detail C
Step 6

Secure the clamps to the support posts.



Installation Instructions

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

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach the chains to the support posts. See **Detail A and Elevation View**. Insert the shackle through the last link on one end of the chain, insert the bushing into the tab on the clamp, and attach the chains to the clamps as shown. Position the clamps around the support posts, and attach as shown. Refer to the Elevation View for the correct height placement.

Step 4: Attach the belt seat to the swing chains. See **Detail B**. Insert the shackle through the last link on the other end of the chain, and attach the belt seat as shown.

Final Details.

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

Torque Specifications:

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

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

PM4896 - SLING SEAT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
ABC0074	CONNECTOR - 5/16" CHAIN SHKLE w/3/8"-16 THREAD	2
ACN0218	CHAIN - 4/0 - 11 LINKS	2
AFM7403	CLAMP - 5.00" O.D. ROPE CONNECTION	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/ NYLON PATCH	2
BAE9077	SHACKLE - "D" STYLE	2
BAE9078	BOLT - M10 x 1.5 x 40mm FLAT HEAD	2
BAE9093	BUSHING - .399" I.D. x .560" O.D. x .500"	2

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Assembly View (representative model)

Installation Instructions

Playmakers®

Models PM7056, PM7057, PM7058 and PM7059


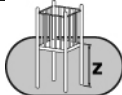

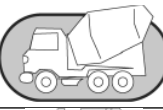
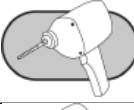

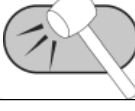
Nuvo™ Curvy Climber

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

Installation Preparation

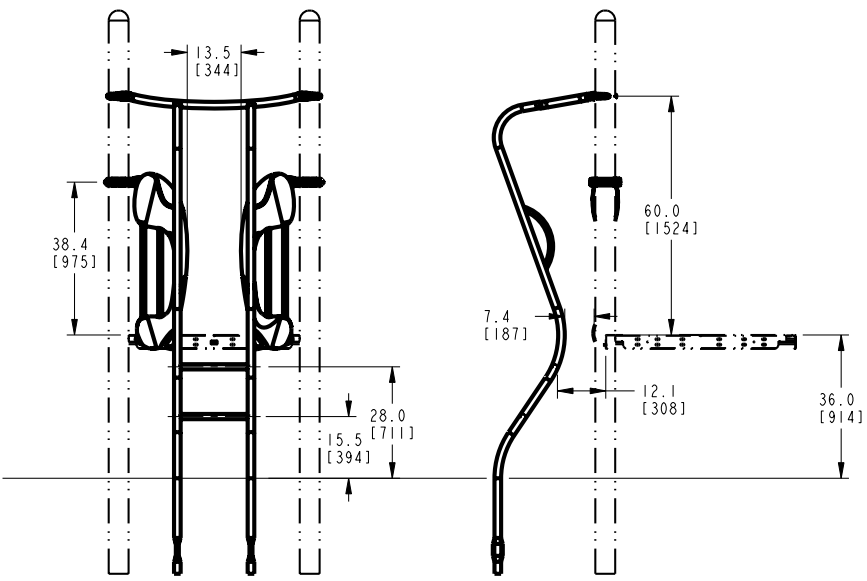
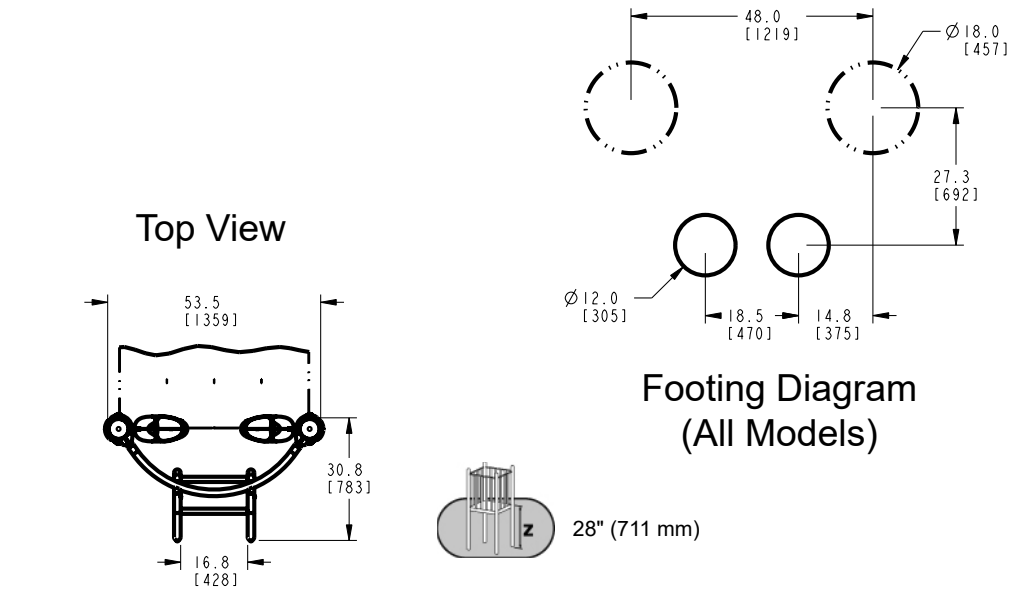
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.06 cubic yard (0,04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

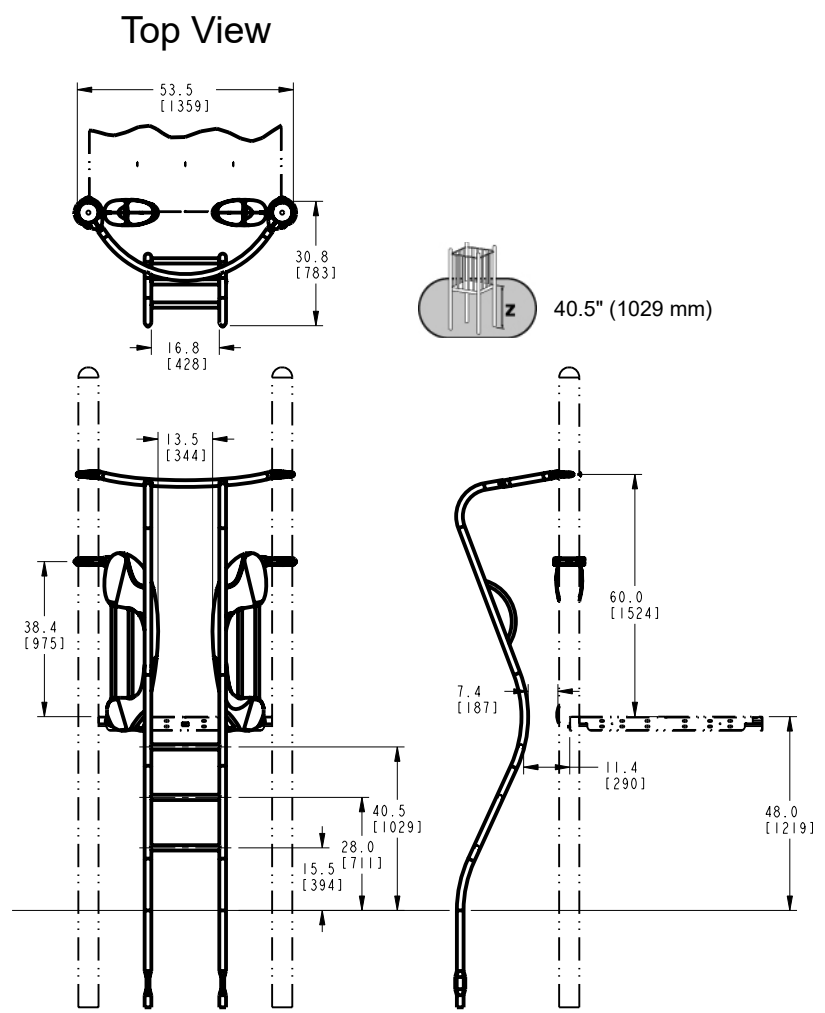
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

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



Elevation Views
PM7056

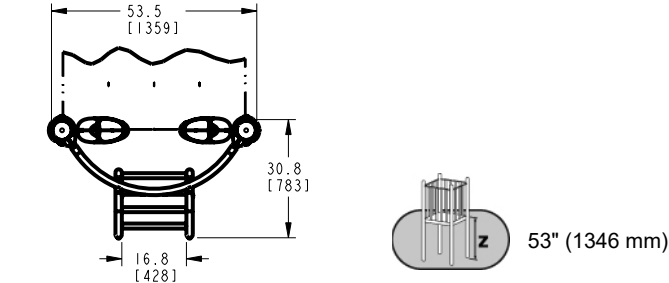


Elevation Views
PM7057

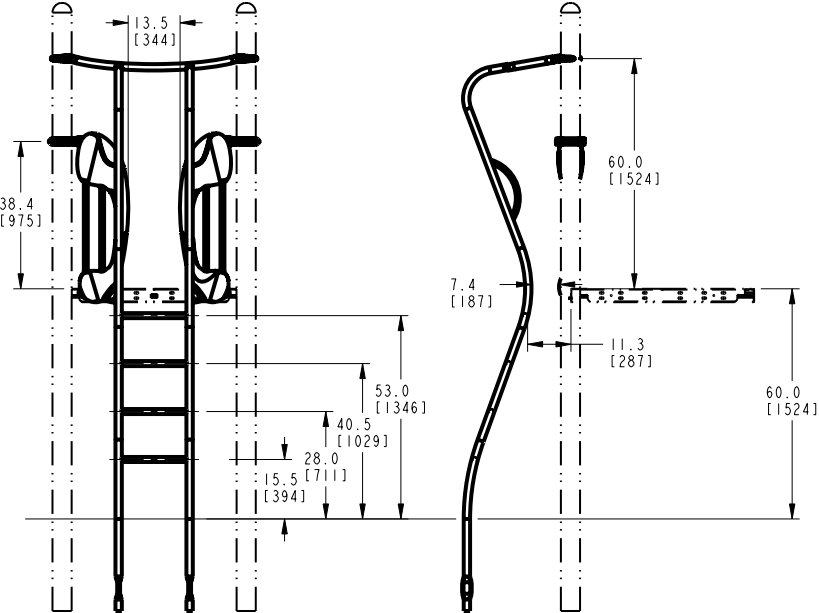
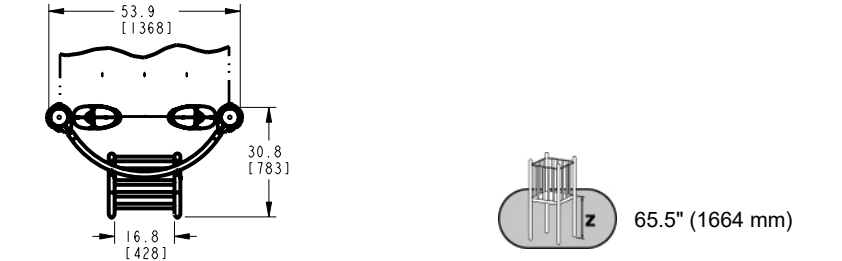
Installation Instructions

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

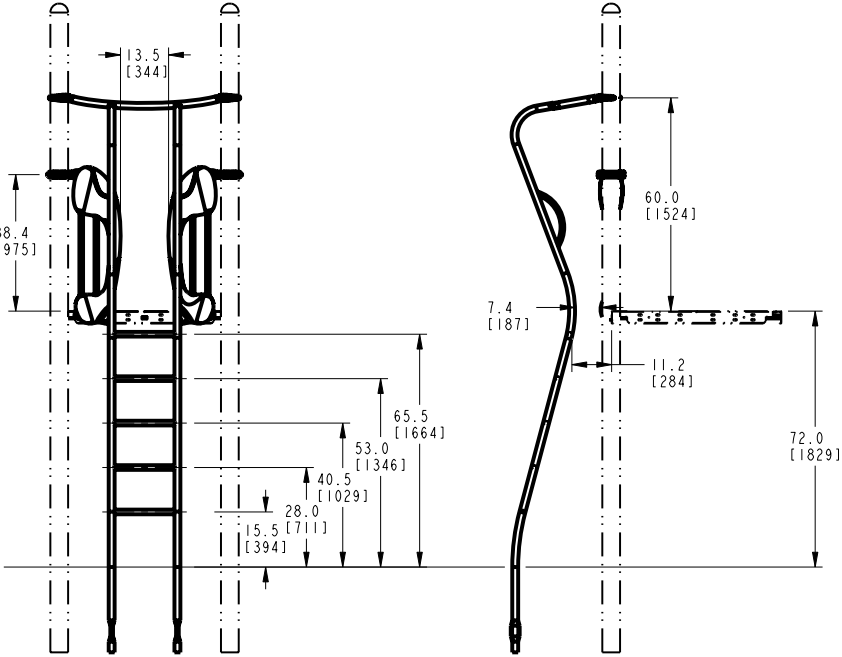
Top View



Top View



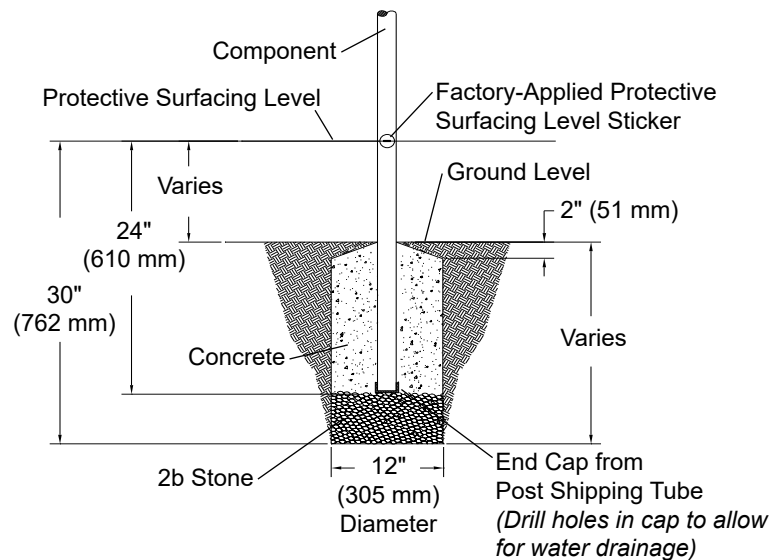
Elevation Views
PM7058



Elevation Views
PM7059



Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

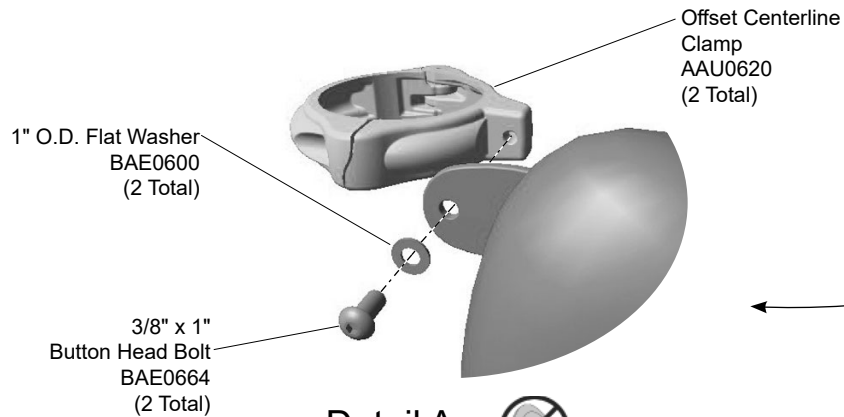
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

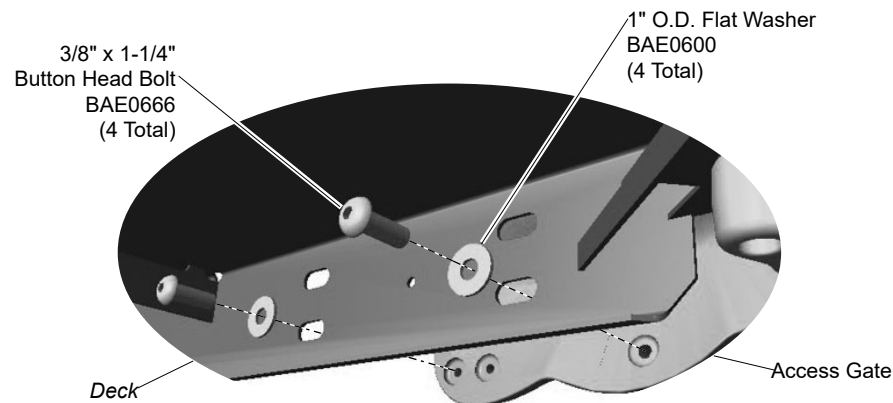
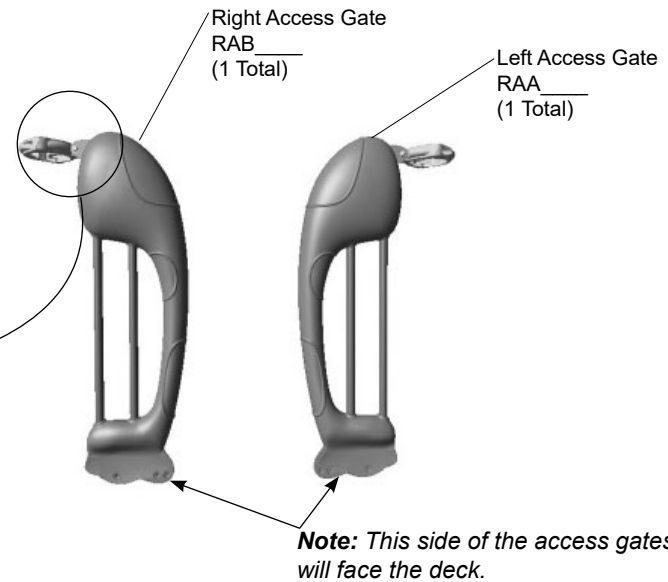
Installation Instructions

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



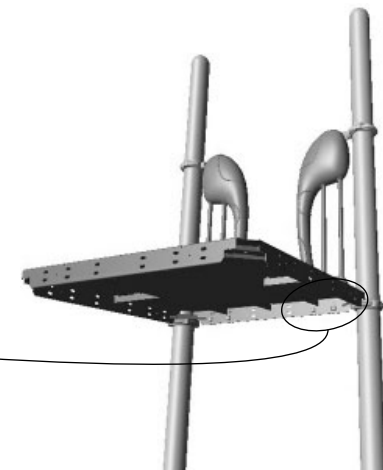
Detail A
Step 4

Attach a clamp to each access gate tab.



Detail B
Step 5

Attach the access gates to the deck.



Installation Instructions

Support Post

3/8" x 1-1/4"
Tamper Resistant Bolt
BAE0662
(2 Total)

Detail C
Step 6

Attach the access gates to the support posts.

Climber Support Frame
ACL0410
(1 Total)

Climber Frame
See Table
(1 Total)

Model	Climber Frame Part No.
PM7056	ACL0400
PM7057	ACL0402
PM7058	ACL0404
PM7059	ACL0406

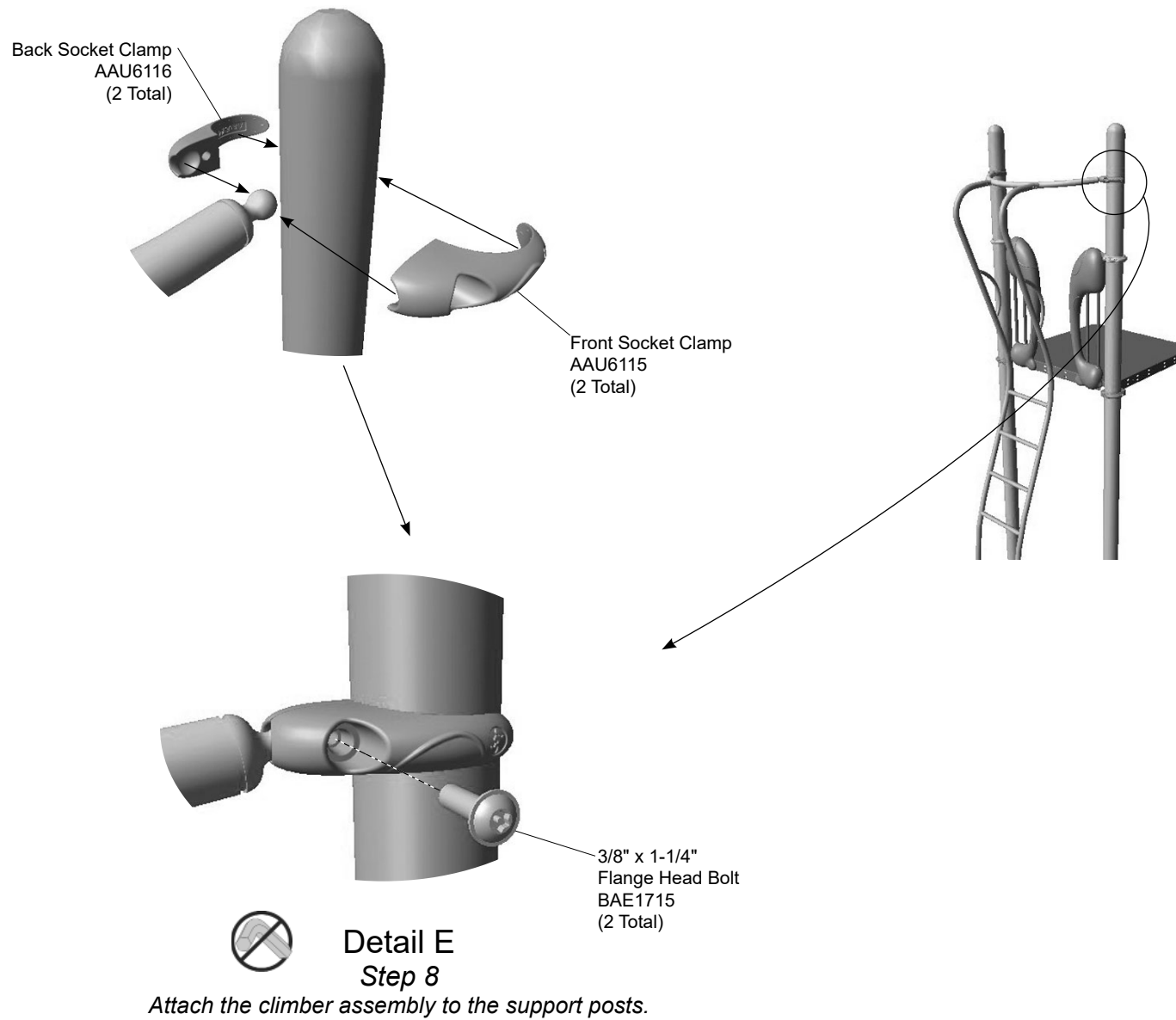
3/8" x 3/4"
Button Head Bolt
BAE0659
(2 Total)

Detail D
Step 7

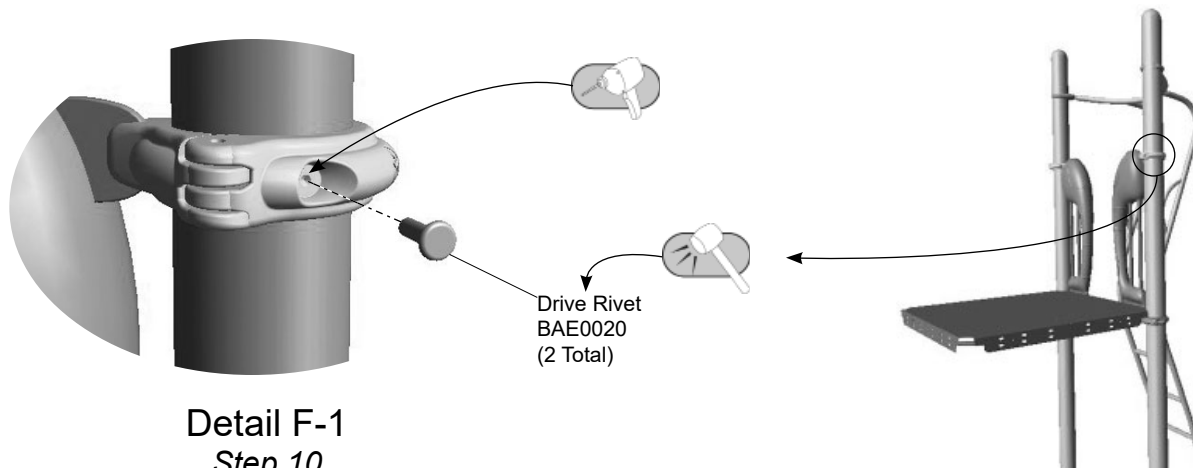
Attach the climber support frame to the climber frame.



Installation Instructions



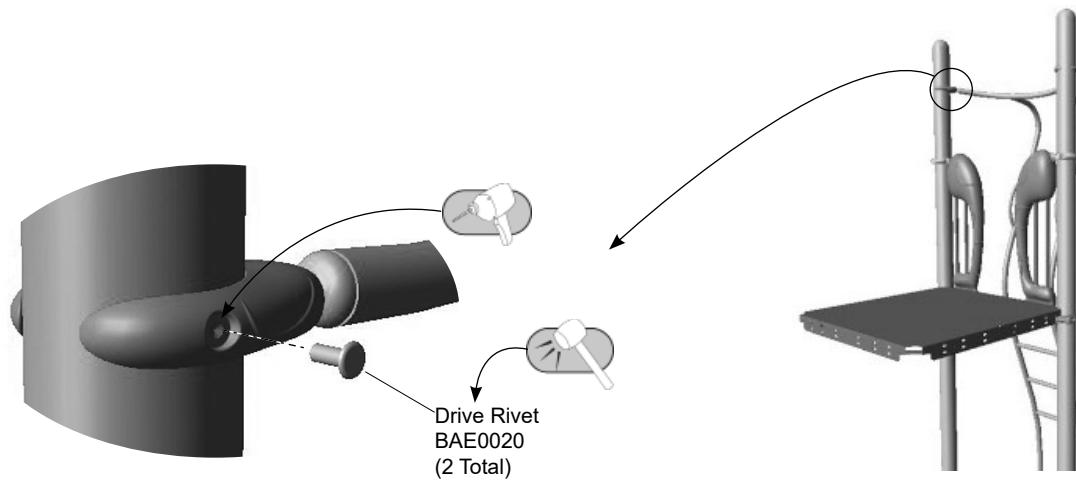
Installation Instructions



Detail F-1

Step 10

Secure the clamp to the support post.



Detail F-2

Step 10

Secure the front socket clamp to the support post.

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Detail** in the *Guidelines* at the beginning of this instruction booklet and on page 4 of this installation document.

Step 4: Attach a clamp to each access gate tab. See **Detail A**. Position the flat side of each clamp against a gate tab, and attach as shown. Note the side of the gate that faces the deck.

Step 5: Attach the access gates to the deck. See **Detail B**. Position the access gates against the deck with the clamps closed around the support posts, and attach as shown. Gates may be attached to the upper holes or the lower holes in the deck.

Step 6: Attach the access gates to the support posts. See **Detail C**. Attach as shown.

Step 7: Attach the climber support frame to the climber frame. See **Detail D**. Slide the support frame into the top of the climber frame, align the holes, and attach as shown.

Step 8: Attach the climber assembly to the support posts. See **Detail E**. Place the climber assembly in it's footing and position each socket clamp against a support post and over the ball on the end of the climber support frame and attach as shown.

Final Details.

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

Torque Specifications:

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

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

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

PM7056 - NUVO™ CURVY CLIMBER 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0400	CLIMBER - 36" CURVY	1
ACL0410	CLIMBER - 1.66" O.D. PM ARCH w/2 CONNECTORS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1

PM7057 - NUVO™ CURVY CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0402	CLIMBER - 48" CURVY	1
ACL0410	CLIMBER - 1.66" O.D. PM ARCH w/2 CONNECTORS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1

Bill of Materials

PM7058 - NUVO™ CURVY CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0404	CLIMBER - 60" CURVY	1
ACL0410	CLIMBER - 1.66" O.D. PM ARCH w/2 CONNECTORS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1

PM7059 - NUVO™ CURVY CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0406	CLIMBER - 72" CURVY	1
ACL0410	CLIMBER - 1.66" O.D. PM ARCH w/2 CONNECTORS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1





Assembly View (representative model)


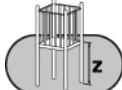

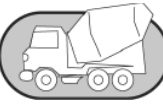



Installation Instructions

Playmakers® Models PM7080 and PM6890
6 ft. (1829 mm) and 10 ft. (3048 mm)
Catwalk

Installation Preparation

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

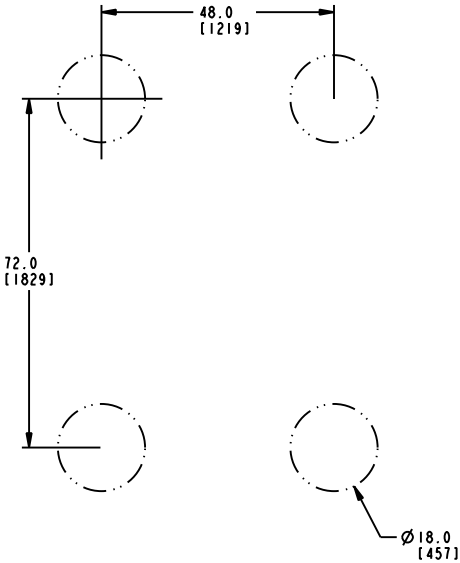
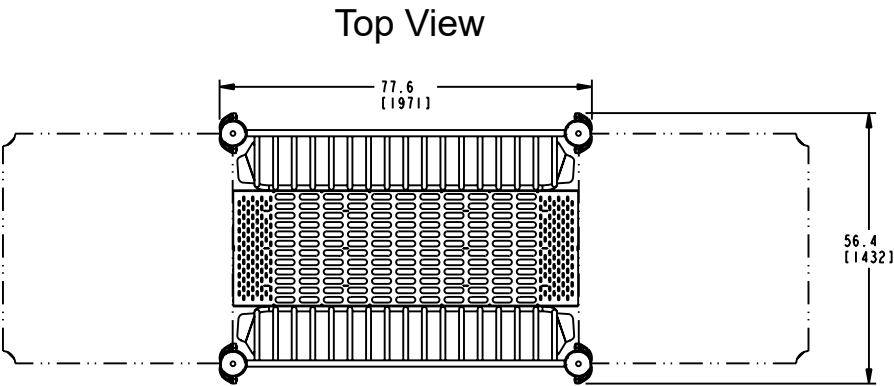
ICON KEY

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

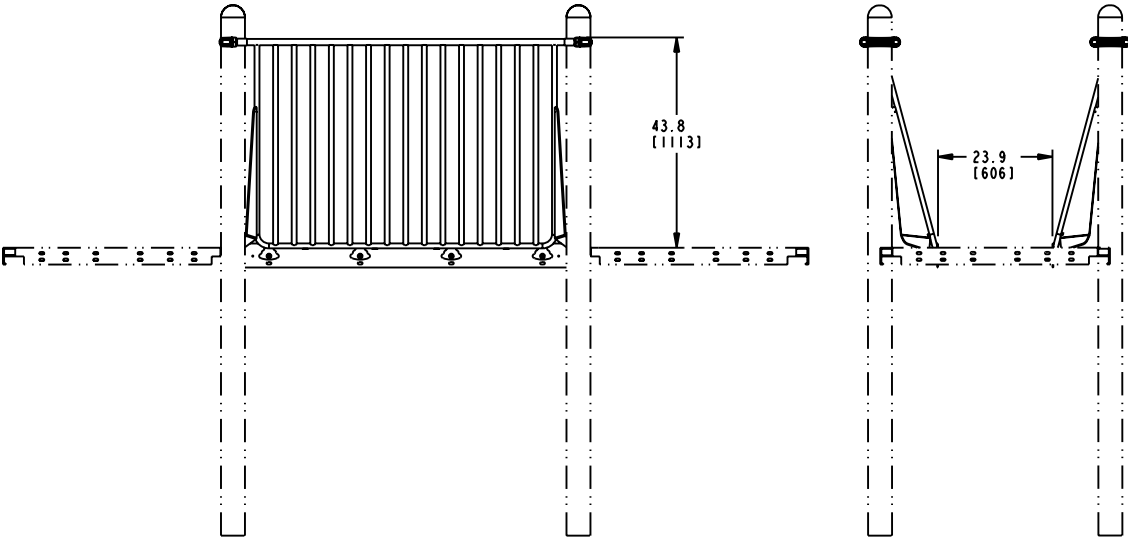
Installation Instructions

KEY

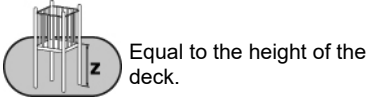
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



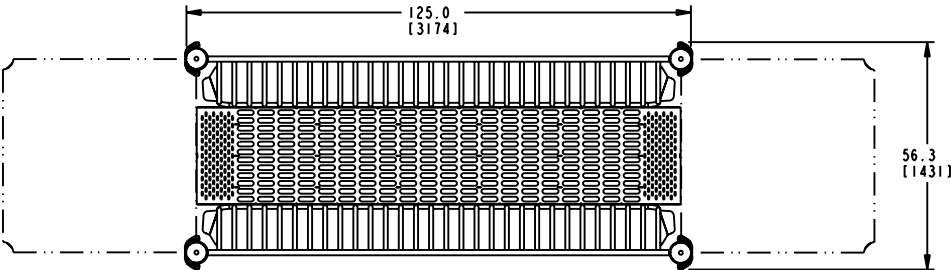
Elevation View
PM7080



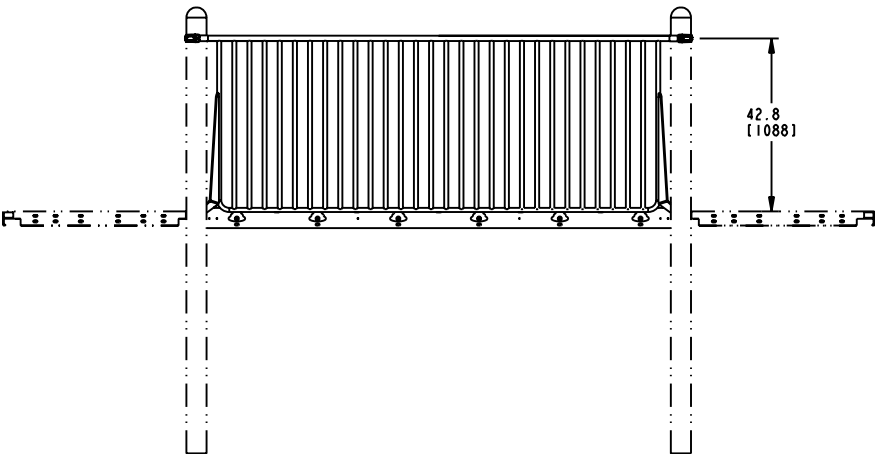
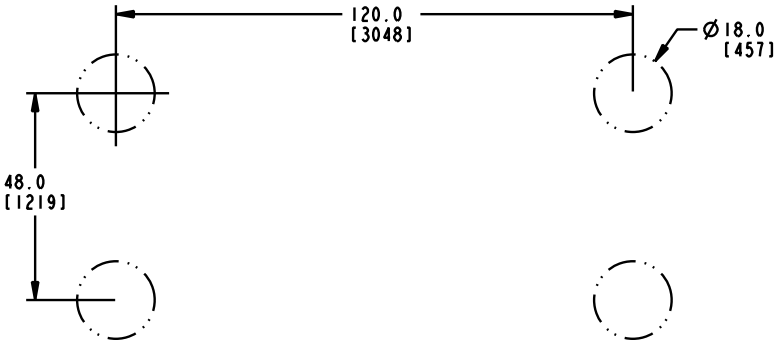
Installation Instructions

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

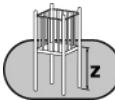
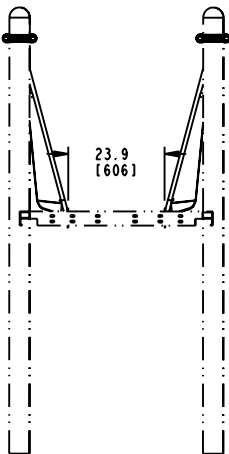
Top View



Footing Diagram



Elevation View
PM6890

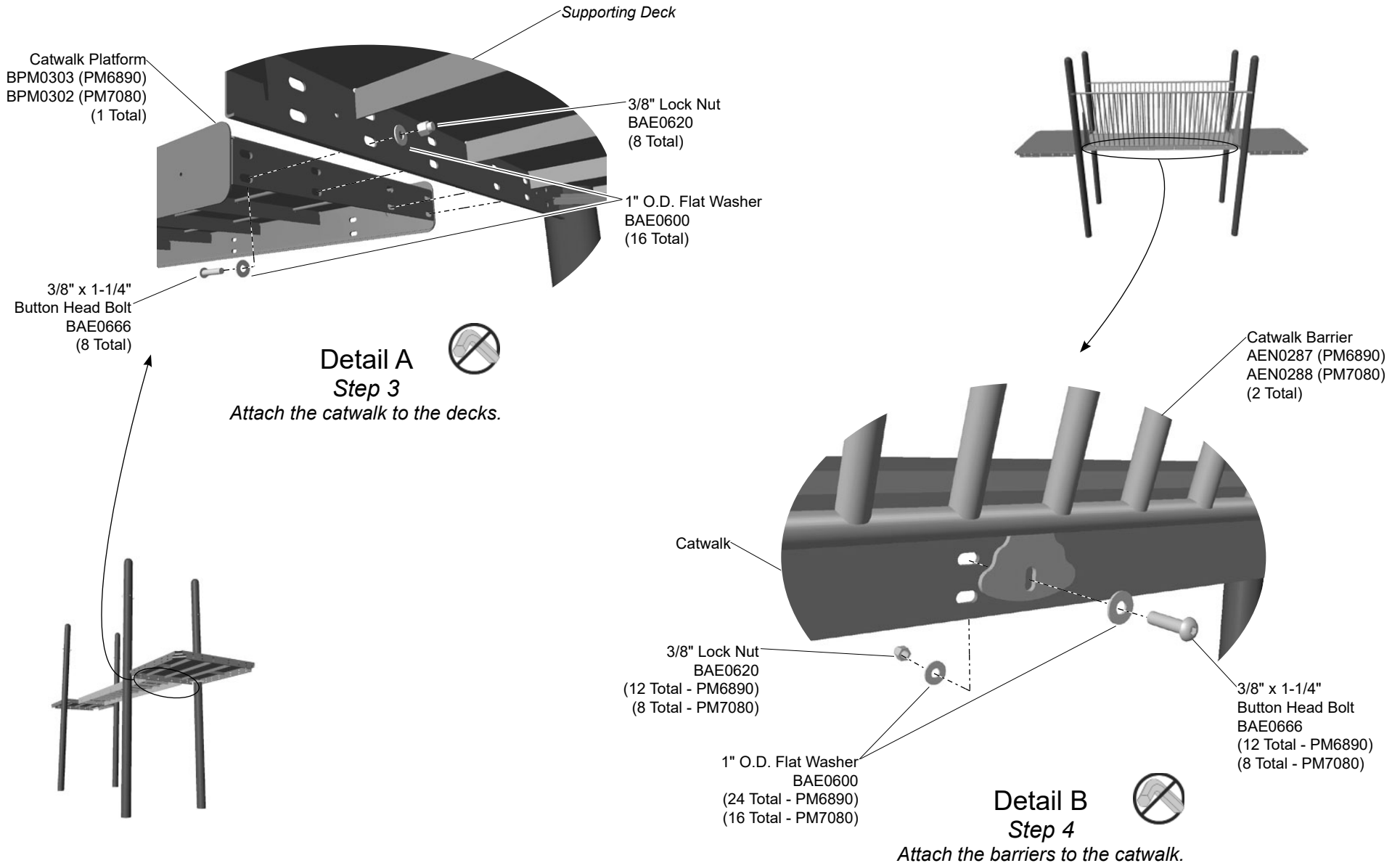


Equal to the height of the deck.

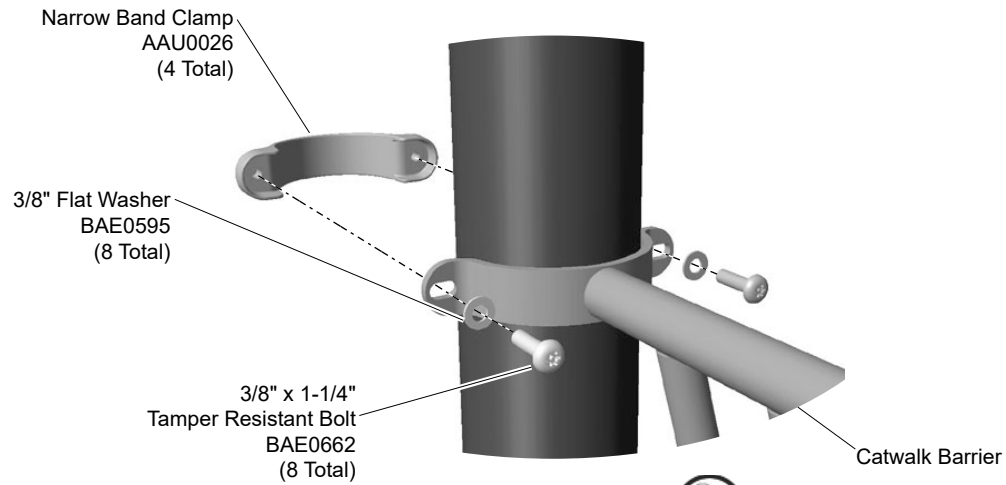


Installation Instructions

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

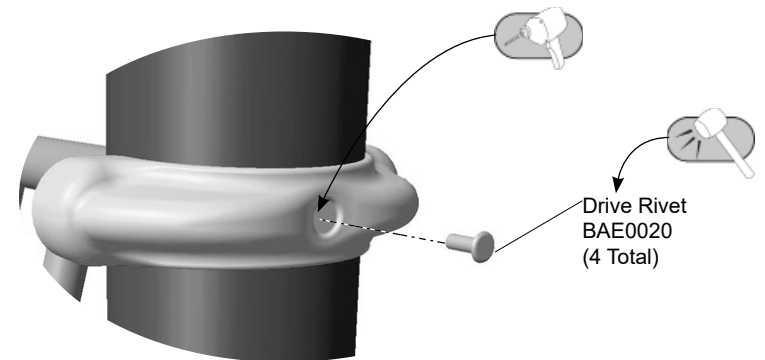
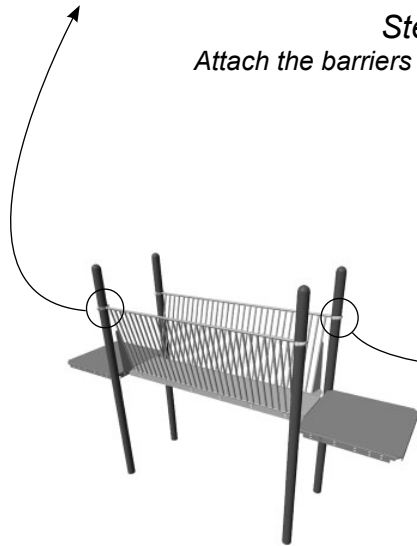


Installation Instructions



Detail C
Step 5

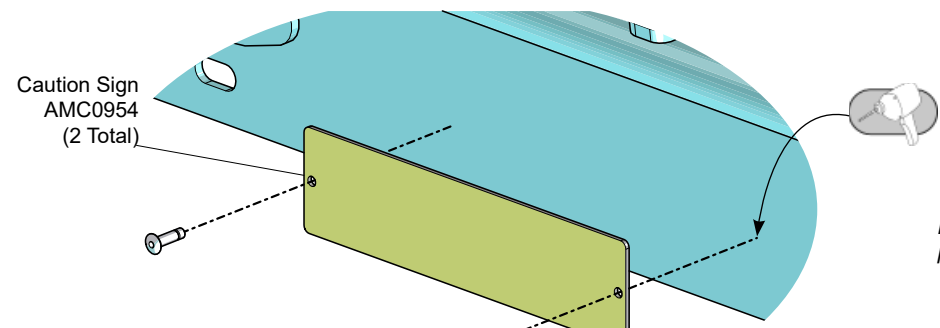
Attach the barriers to the support posts.



Detail D
Step 7

*Secure the clamps to the
support posts.*

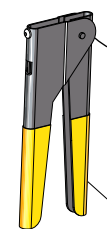
Installation Instructions



Caution Sign
AMC0954
(2 Total)

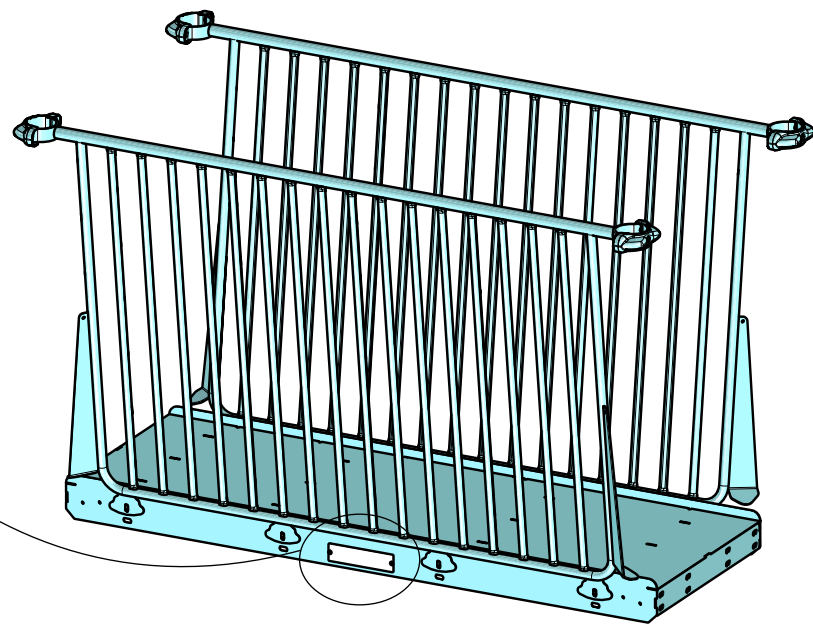
Note: Use the 3/16" drill bit
provided to drill holes.

3/16" x .56" Alum Rivet
BAE0121
(4 Total)



Rivet Tool
AMC0304
(1 Total)

Detail E
Step 8
Attach the caution sign to the
sides of the catwalk.



(representative model)



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the catwalk to the decks.

Step 3: Attach the catwalk to the decks. See **Detail A**. Using adequate manpower, position the catwalk between the decks and attach as shown.

Attach the barriers to the catwalk.

Important Note: There are upper holes (preferred) and lower holes along the side of the catwalk for barrier attachment. Choose the hole set that will avoid adjacent clamp interference. Both barriers should be mounted at the same height.

Step 4: Attach the barriers to the catwalk. See **Detail B**. Position each barrier against the side of the catwalk with the top rail clamp bands around the support posts and attach as shown. Leave the connections loose. The barriers should be supported until the narrow clamp bands are attached.

Attach the narrow clamp bands to the barriers.

Step 5: Attach the narrow clamp bands to the barriers. See **Detail C**. Position each narrow clamp band around a support post and aligned with a barrier top rail, and attach as shown. Snug tighten the connections.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Make sure the top of the catwalk is flush to and level with the deck.

Torque Specifications:

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

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

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

Step 8: Attach the caution sign to the sides of the catwalk. See **Detail E**. Using the caution sign as a template, position the caution sign against the side of the catwalk, using the drill bit provided, drill two holes on each side of the catwalk. Attach the sign as shown.

PM7080 - 6 ft. (1829 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0288	BARRIER - 71-7/16" x 46-1/16" CATWALK	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0302	PLATFORM - 71.88" x 24.21" x 5" CATWALK	1
ASY0439	KIT - CAUTION - WATCH YOUR HEAD SIGN	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0954	SIGN - CAUTION WATCH YOUR HEAD	2
BAE0121	RIVIT - 3/16" x .56" ALM POP (.251-.375 GRIP RANGE)	4
BAE0181	SCREW - #8 x 1/2" PAN HEAD PHILLIPS	4
BAE1668	MISC - 3/16" DRILL BIT	1

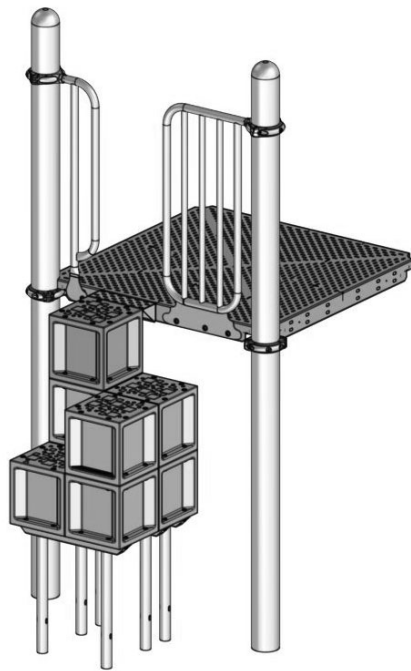
PM6890 - 10 ft. (3048 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0287	BARRIER - 119-9/516 x 45-1/16" CATWALK	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	20
BPM0303	PLATFORM - 119.88" x 24.21" x 5.00" CATWALK	1
ASY0439	KIT - CAUTION - WATCH YOUR HEAD SIGN	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0954	SIGN - CAUTION WATCH YOUR HEAD	2
BAE0121	RIVIT - 3/16" x .56" ALM POP (.251-.375 GRIP RANGE)	4
BAE0181	SCREW - #8 x 1/2" PAN HEAD PHILLIPS	4
BAE1668	MISC - 3/16" DRILL BIT	1



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www.playworldsystems.com



Assembly View (representative model)




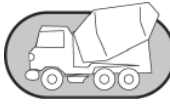
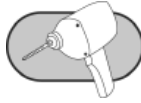


Installation Instructions

Playmakers® Models PM7087 and PM7087S
Climbing Squares 36 in. (914 mm) Decks
In-ground and Surface Mount

Installation Preparation

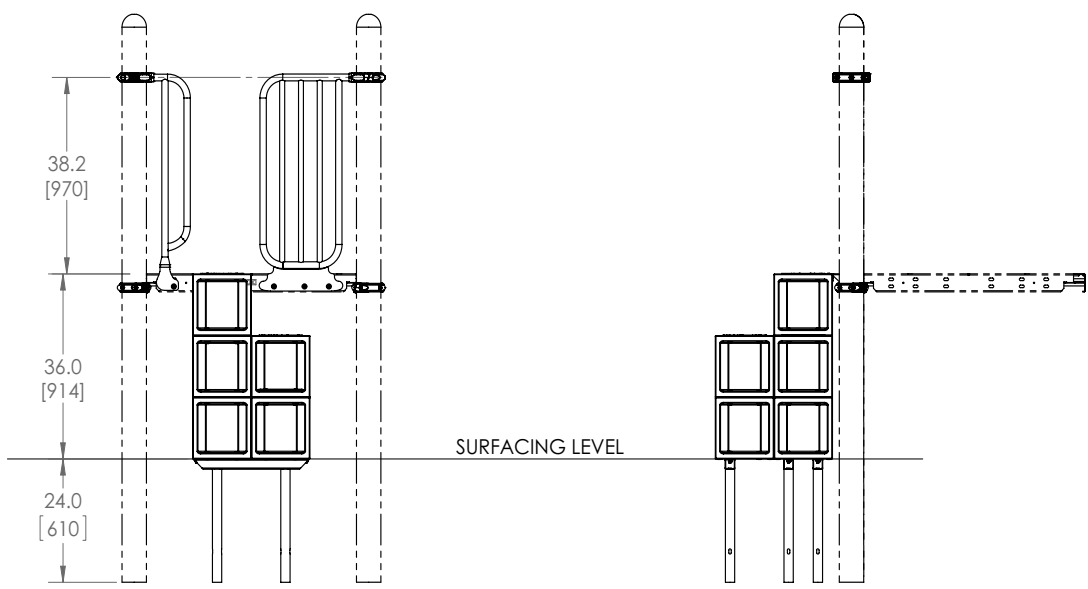
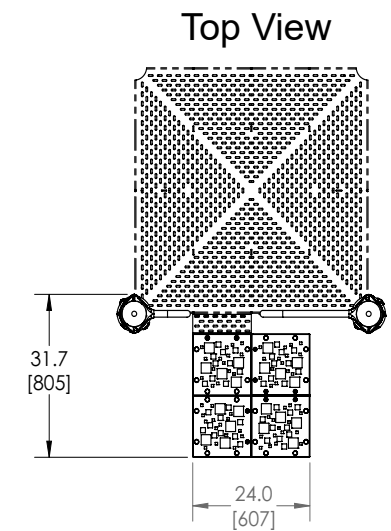
Recommended Crew: Two (2) adults
Installation Time (in-ground): 4 man-hours
Installation Time (surface mount): 2 man-hours
Concrete Required: 0.12 cubic yard (0,08 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

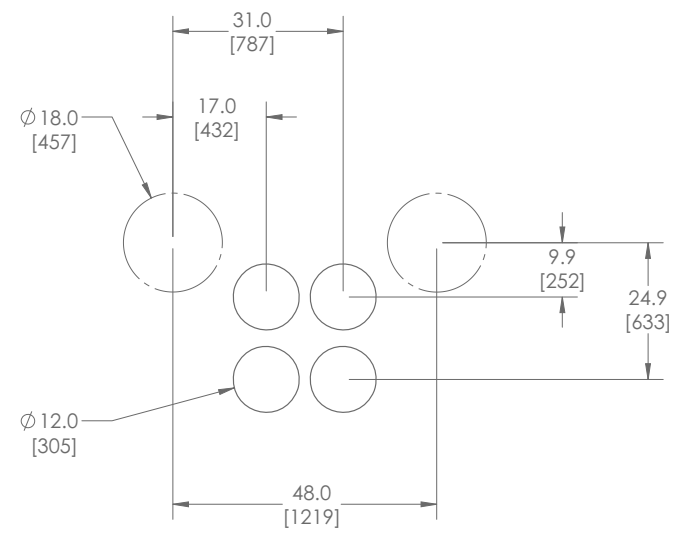
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

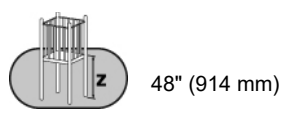
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM7087

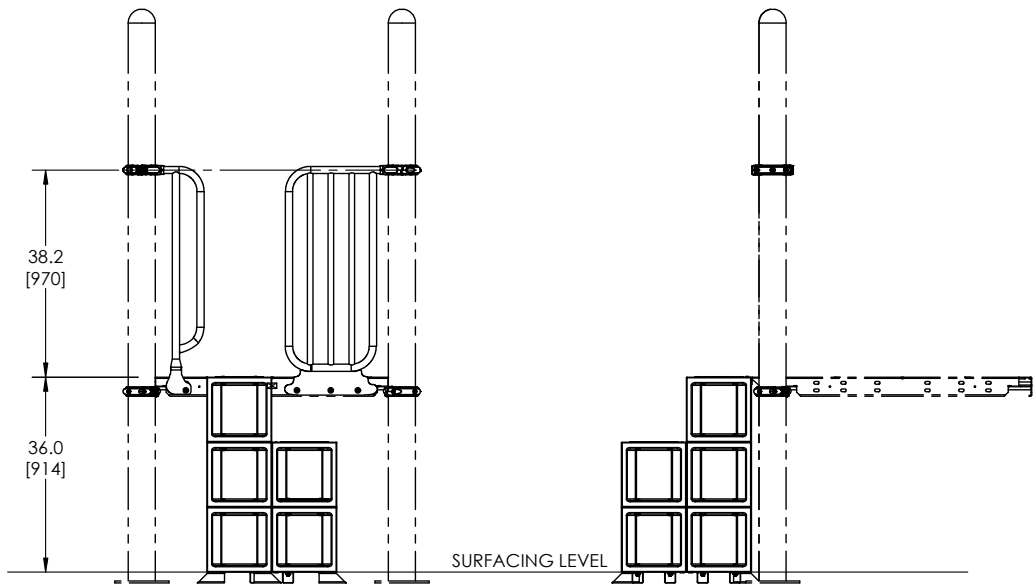
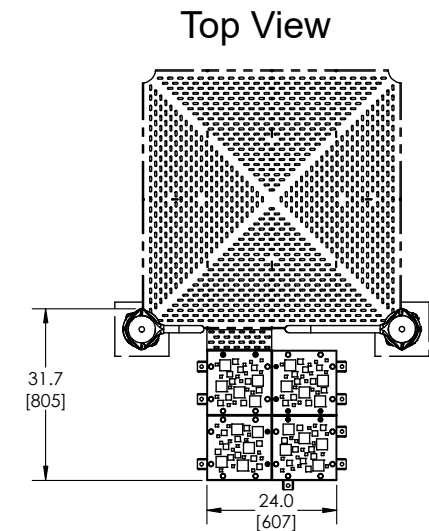


Footing Diagram

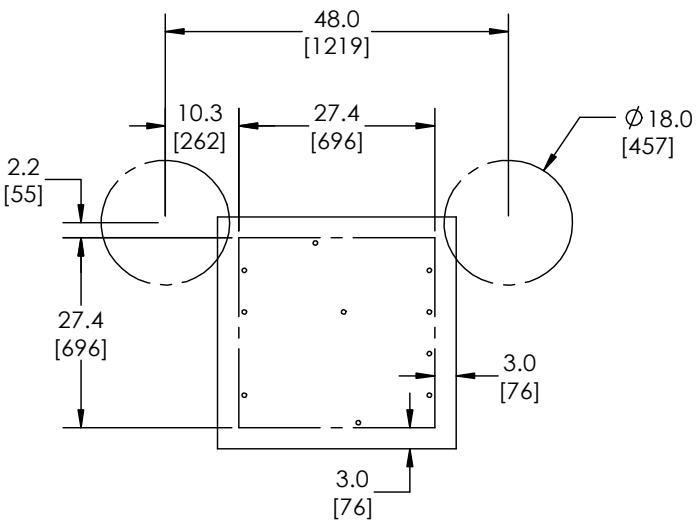


Installation Instructions

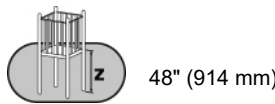
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



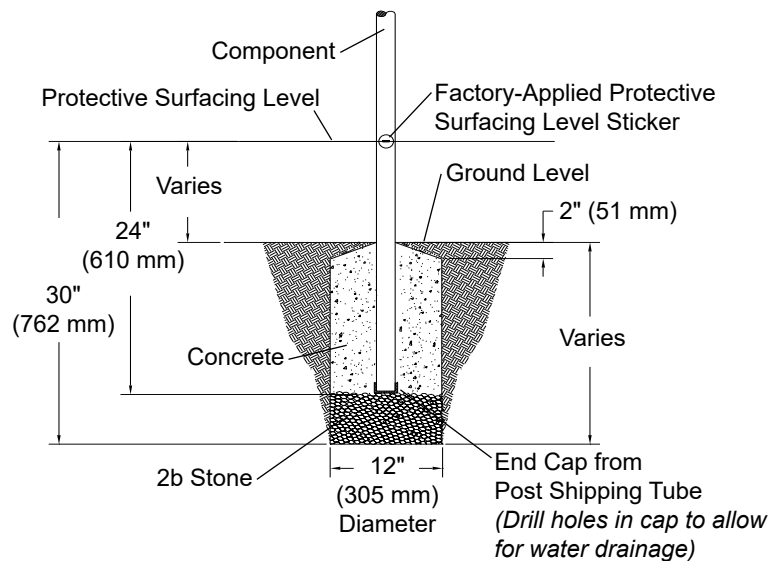
Elevation Views
PM7087S



Footing Diagram



Installation Instructions



Component Footing Detail (ASTM/CSA)

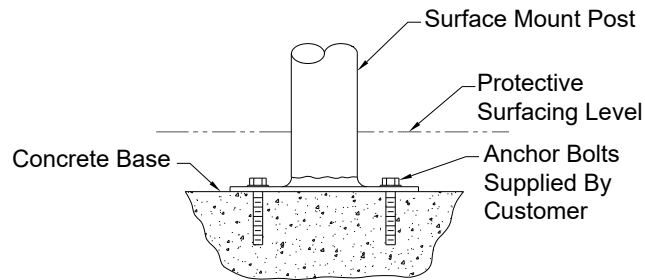
FOOTING NOTES

- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions



Surface Mount Footing Detail

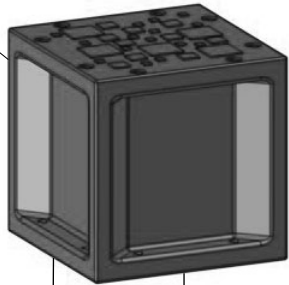
FOOTING NOTES

- All support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in Handbook for Public Playground Safety published by U. S. Consumer Product Safety Commission.

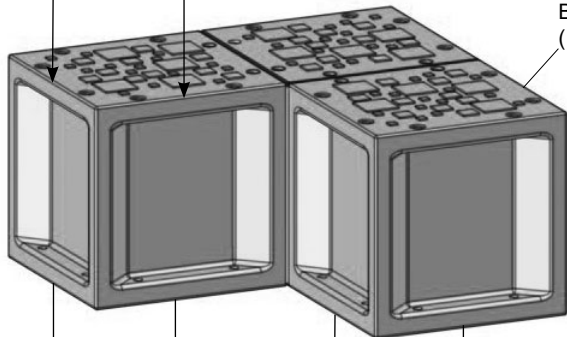
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

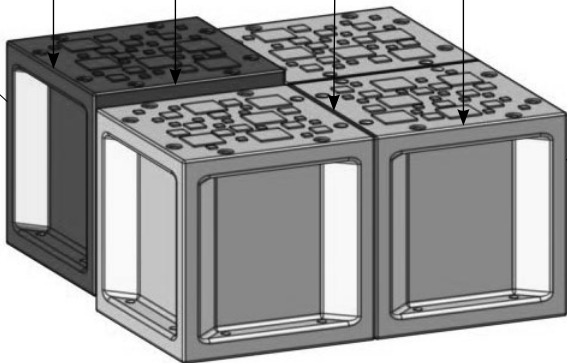
3rd Layer
Single Cube
BPL3182
(1 Total)



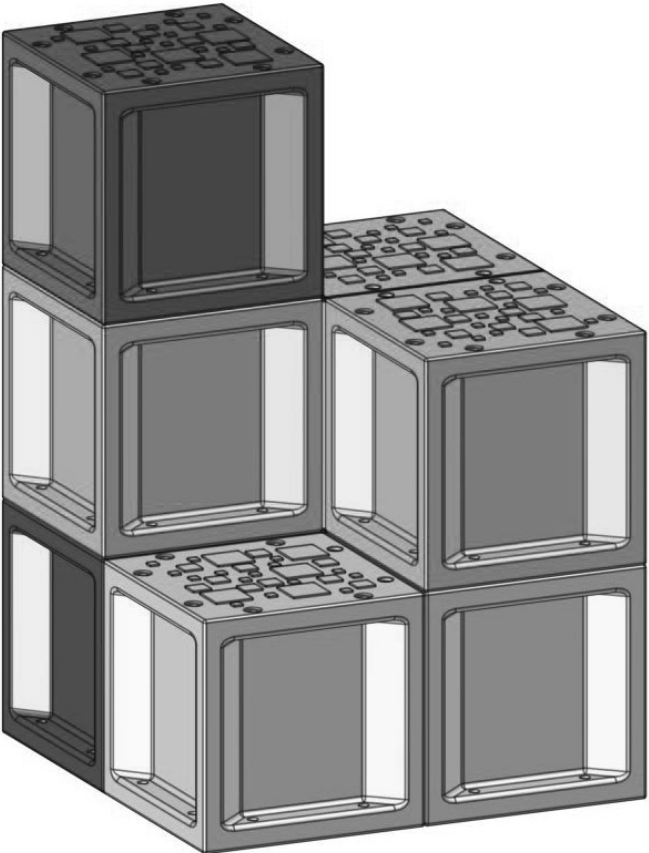
2nd Layer
Triple Cube
BPL3183
(1 Total)



1st Layer
Single Cube
BPL3182
(1 Total)



1st Layer
Triple Cube
BPL3183
(1 Total)

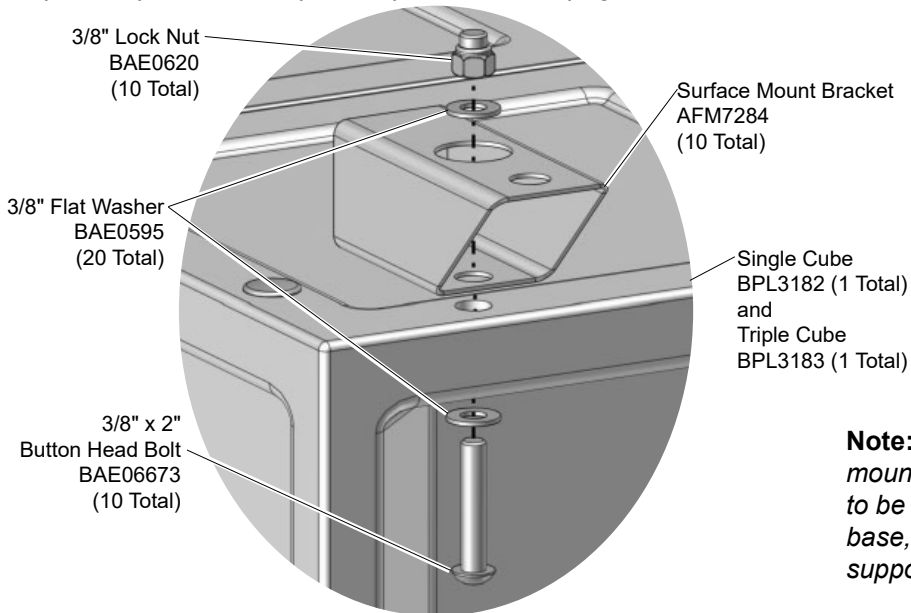


Cube Placement for PM7087 and PM7087S



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 18.

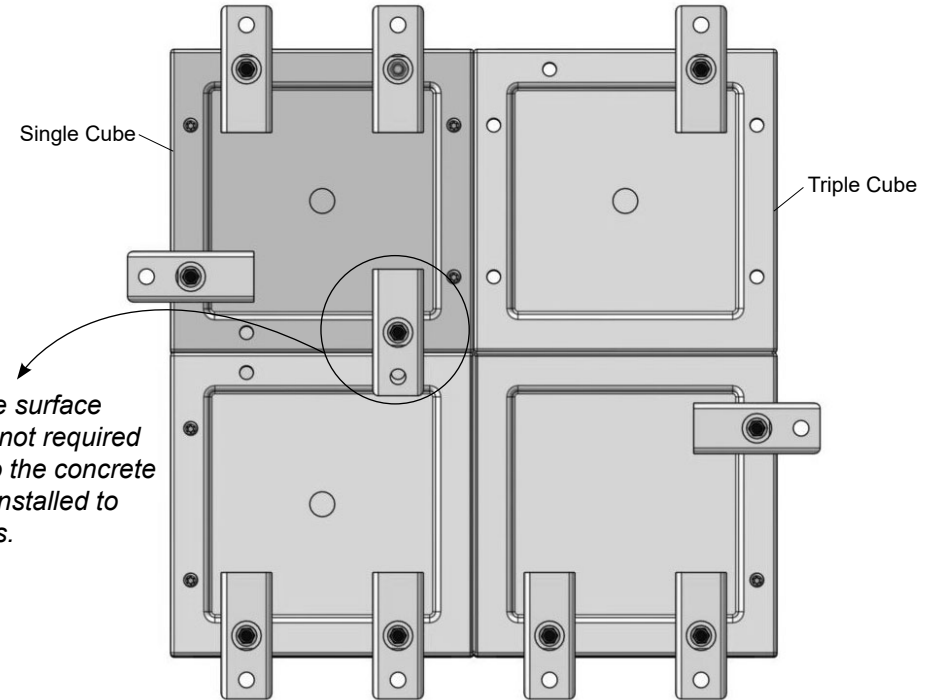


Detail A
Step 4

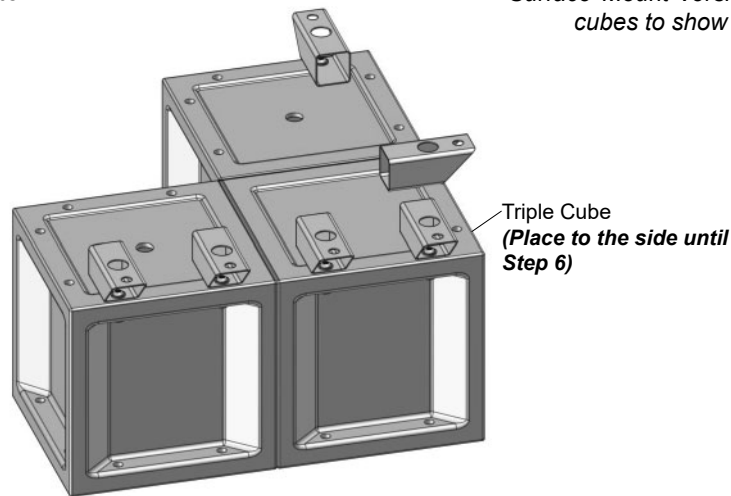
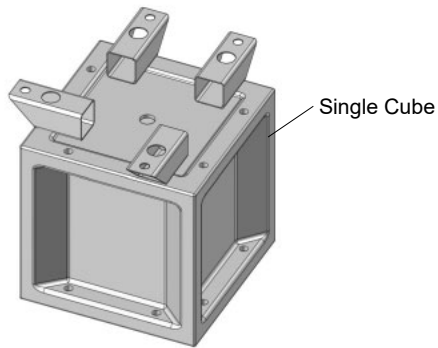
(Surface Mount Model Only)

Attach the surface mount brackets to the bottom of the cubes for the 1st layer.

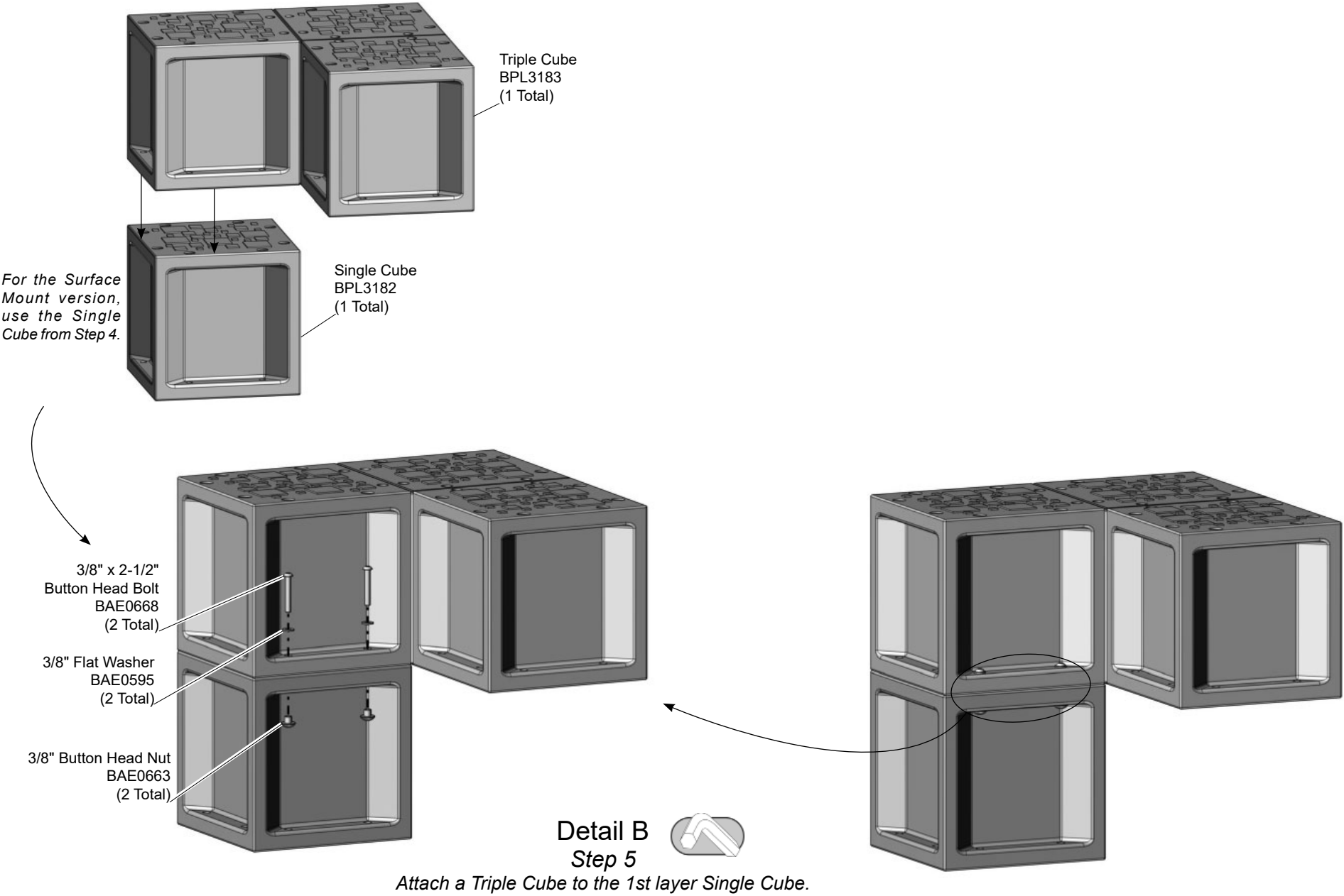
Note: This middle surface mount bracket is not required to be anchored to the concrete base, it must be installed to support the cubes.



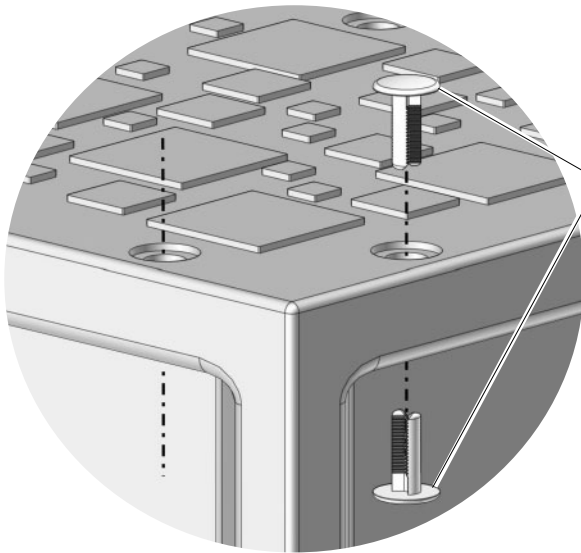
Surface Mount version shown from underneath the assembled cubes to show placement of surface mount brackets.



Installation Instructions



Installation Instructions

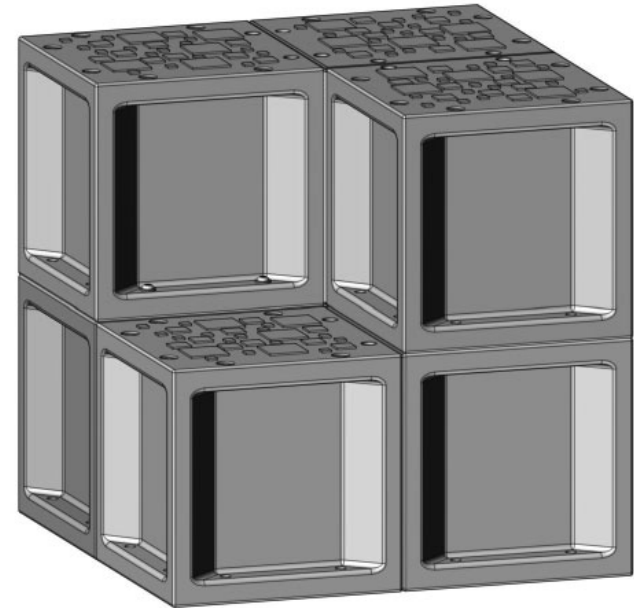
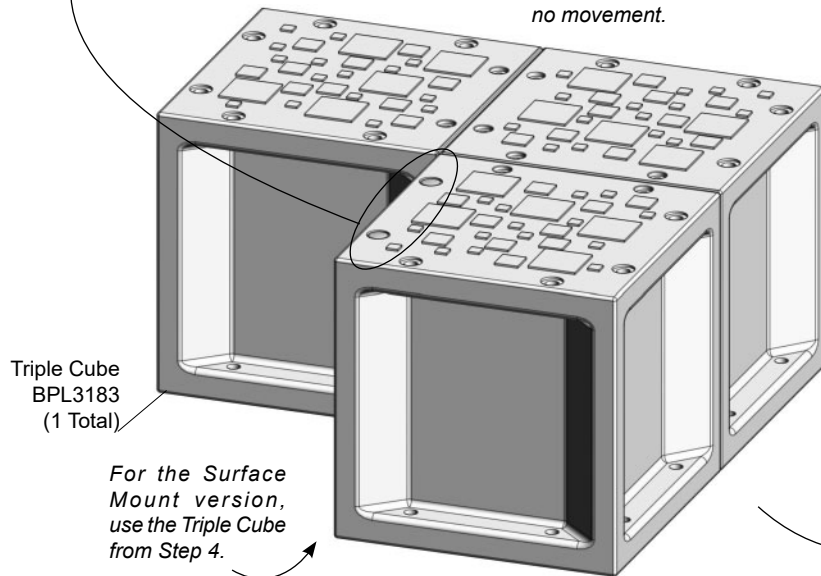


Ratchet Rivet
BPL3193
(4 Total)

Detail C Step 6

Plug two holes on the 1st layer
Triple Cube.

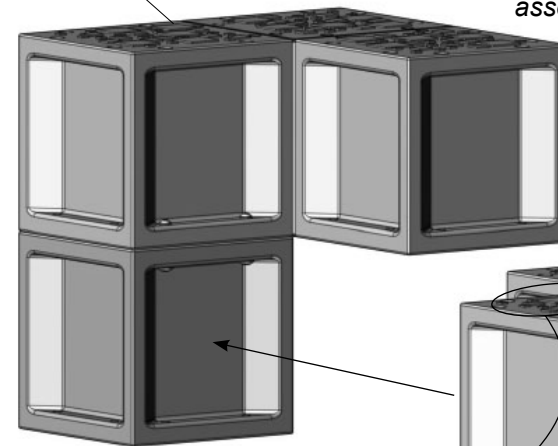
Note: If there is some movement
on the ratchet rivets after pressing
together, use a soft jaw clamp on the
ratchet rivets to fully press together
until flush with the cube and there is
no movement.



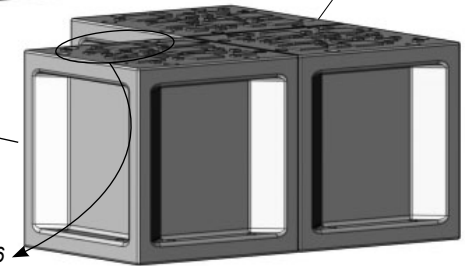
Detail D Step 7

Place the Triple Cube under the cube
assembly.

Cube Assembly
from Step 5

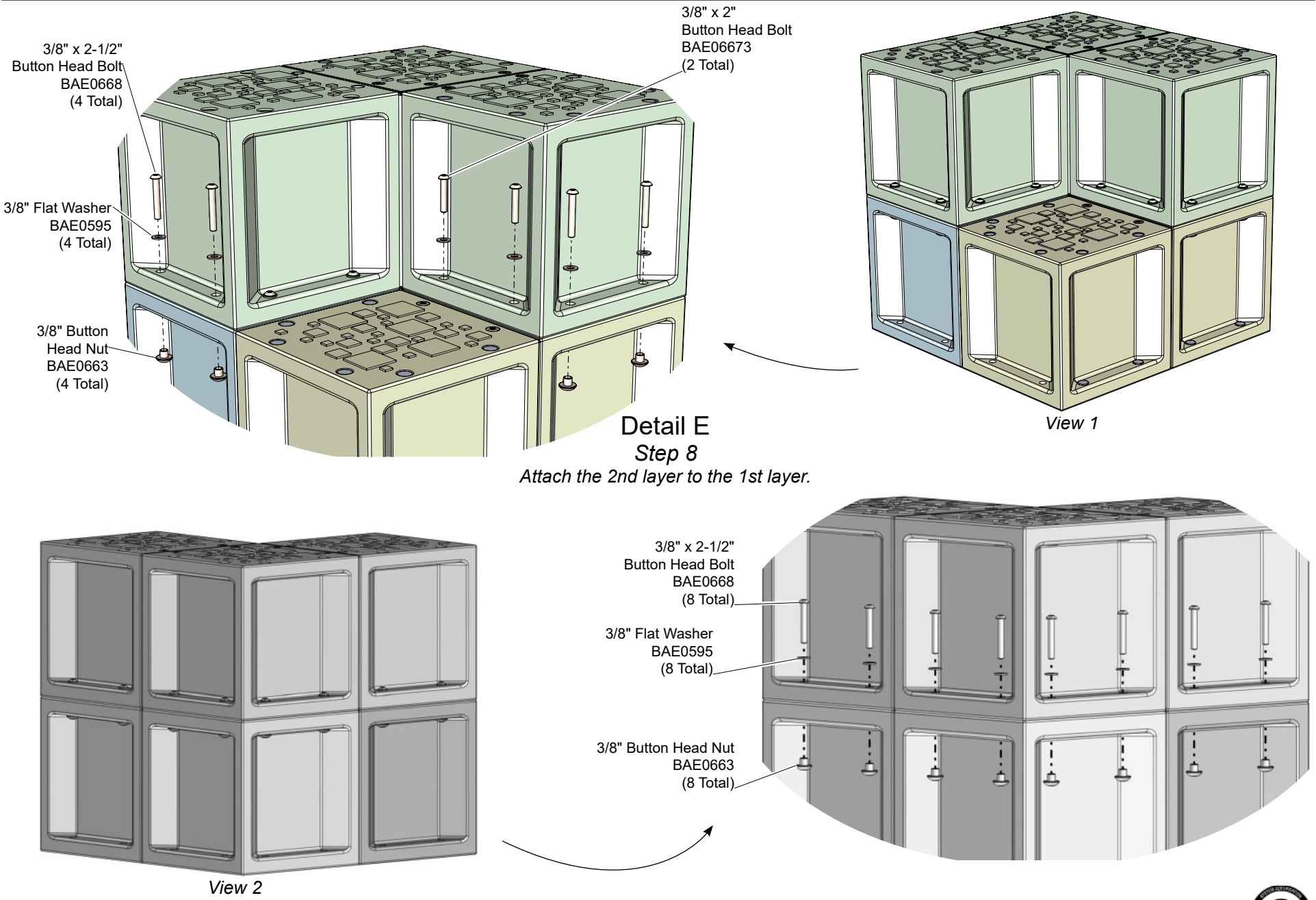


Triple Cube

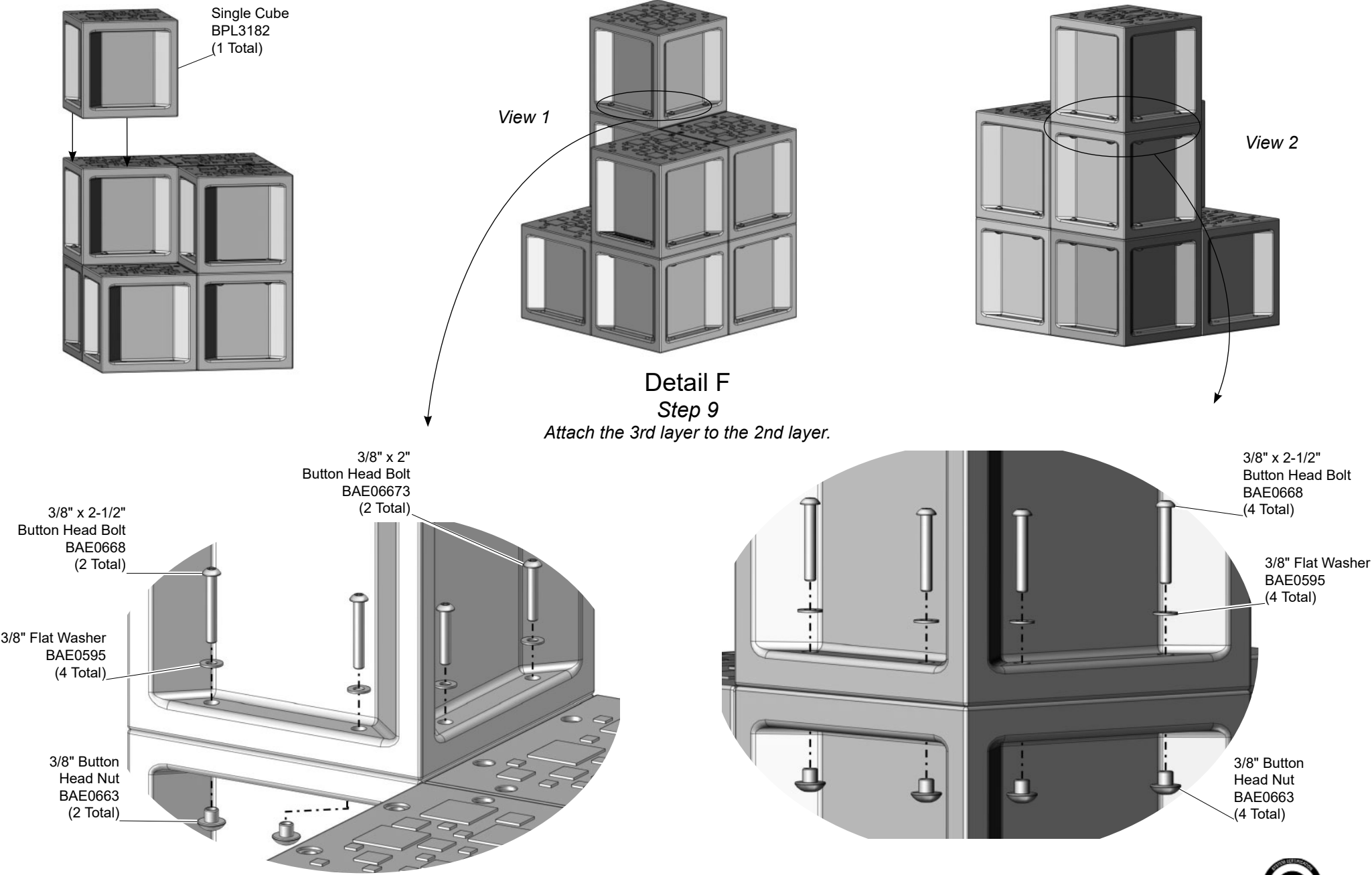


Plugged holes from Step 6

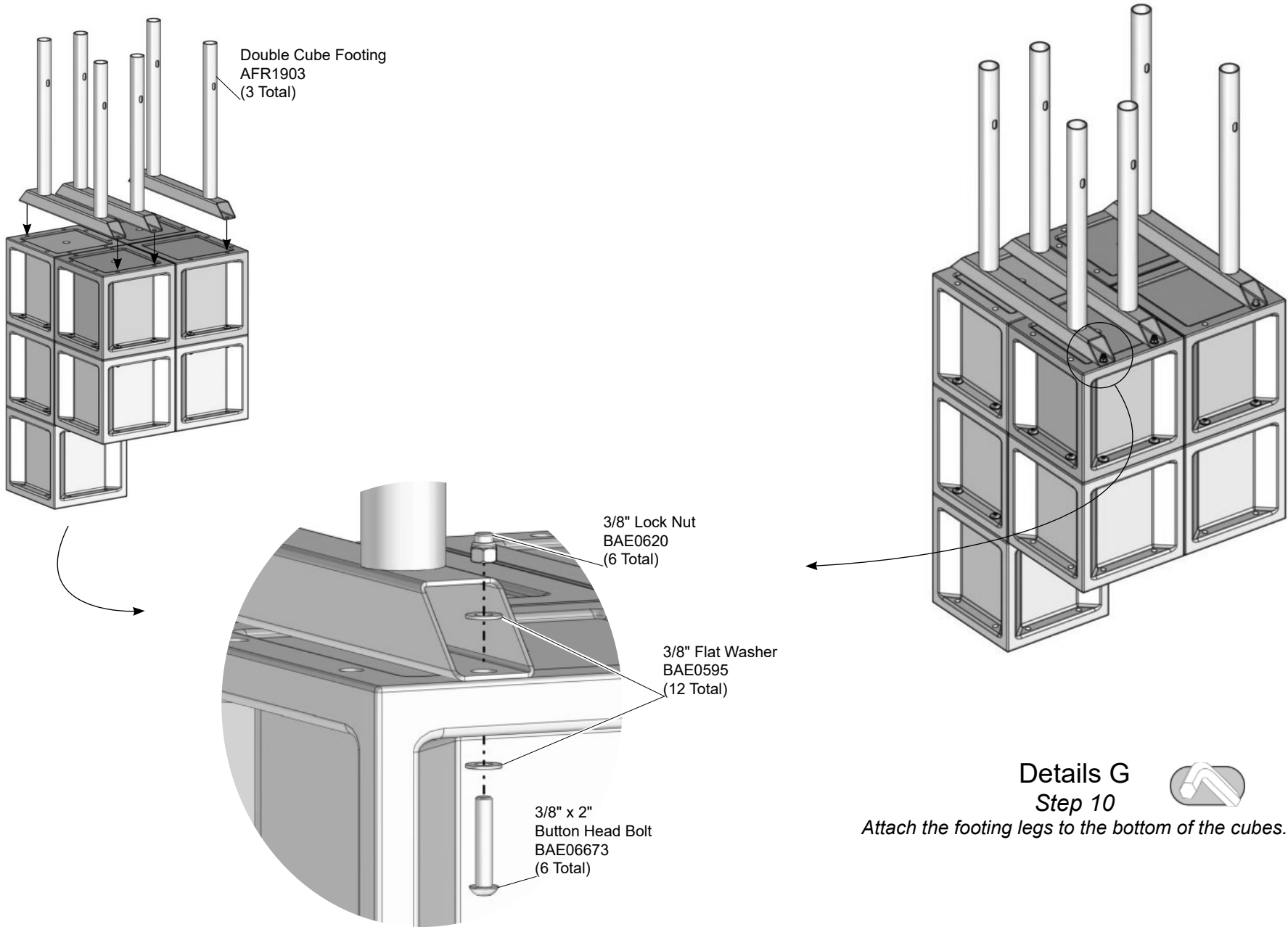
Installation Instructions



Installation Instructions

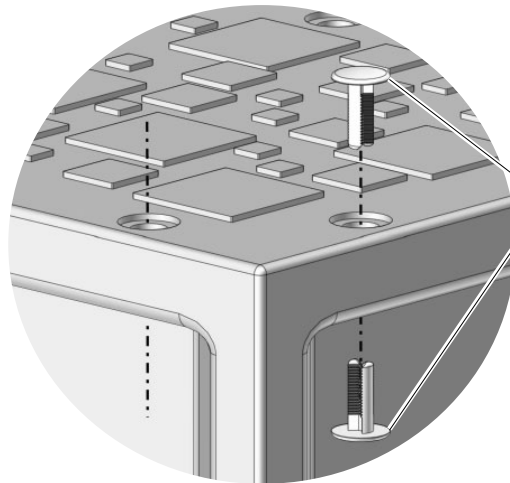


Installation Instructions



Details G
Step 10
Attach the footing legs to the bottom of the cubes.

Installation Instructions

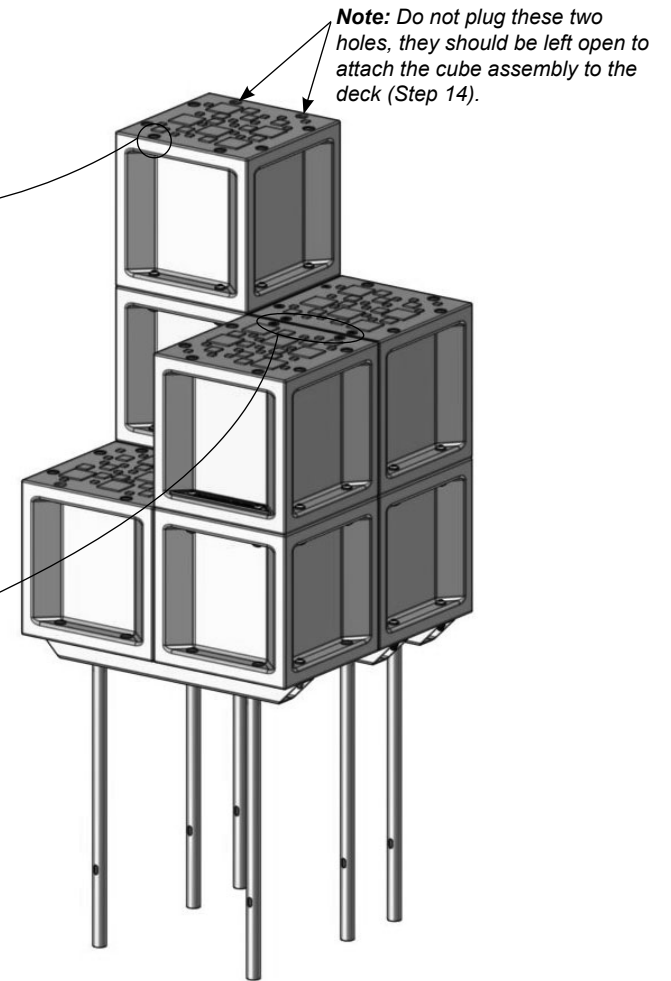


Ratchet Rivet
BPL3193
(60 Total)

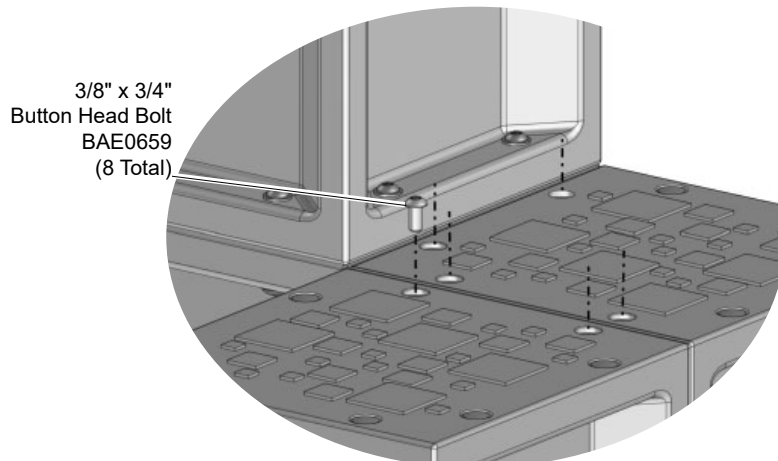
Detail H
Step 11

Plug all empty holes around the outside of the cubes.

Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.



Note: Do not plug these two holes, they should be left open to attach the cube assembly to the deck (Step 14).

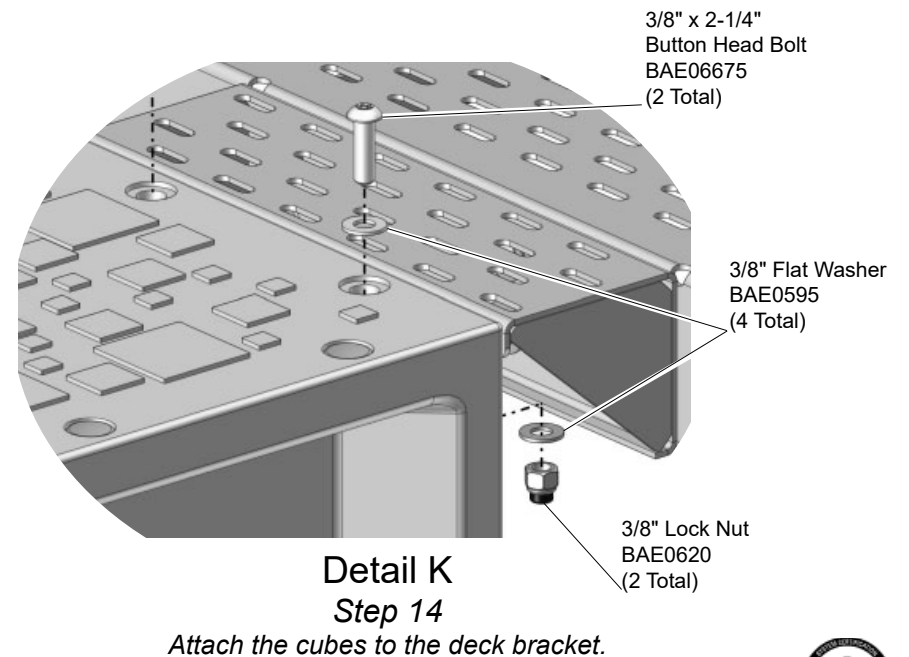
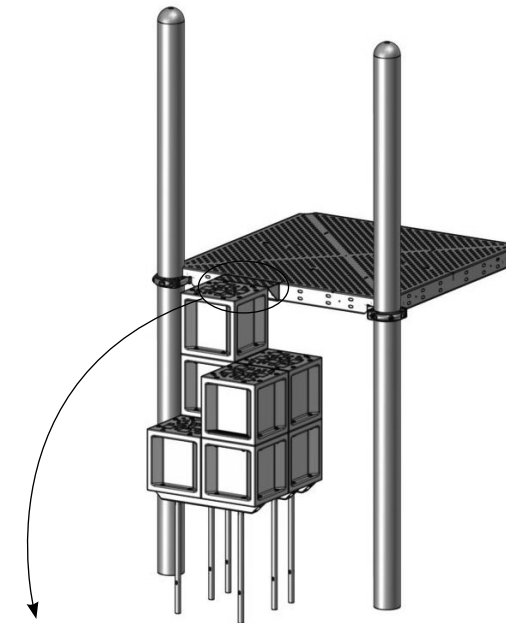
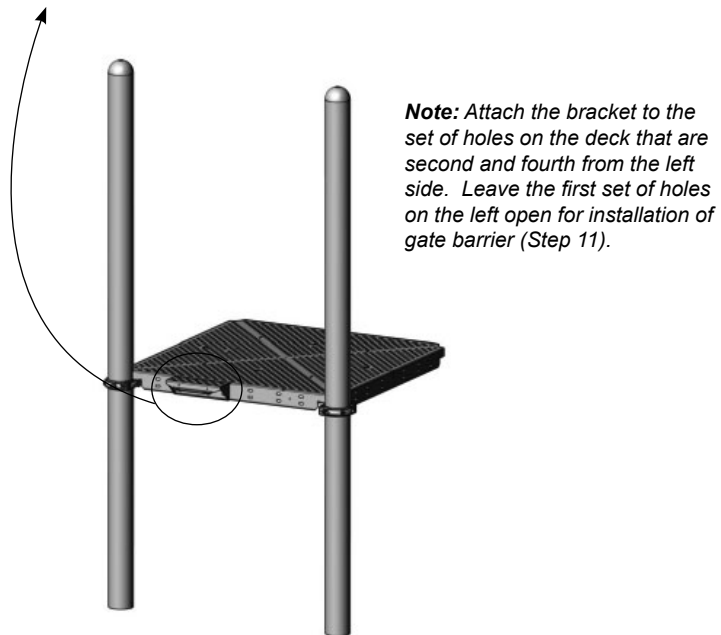
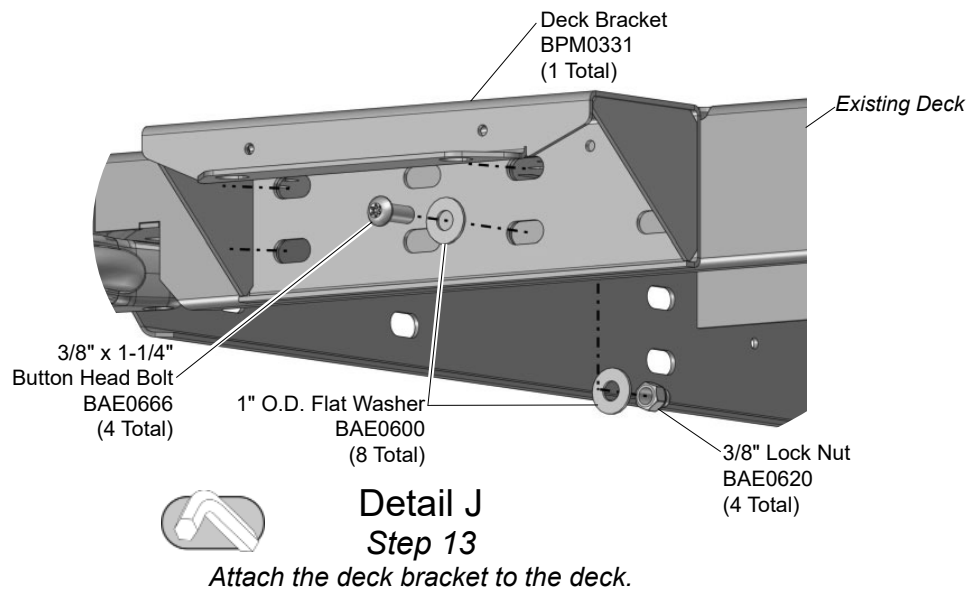


3/8" x 3/4"
Button Head Bolt
BAE0659
(8 Total)

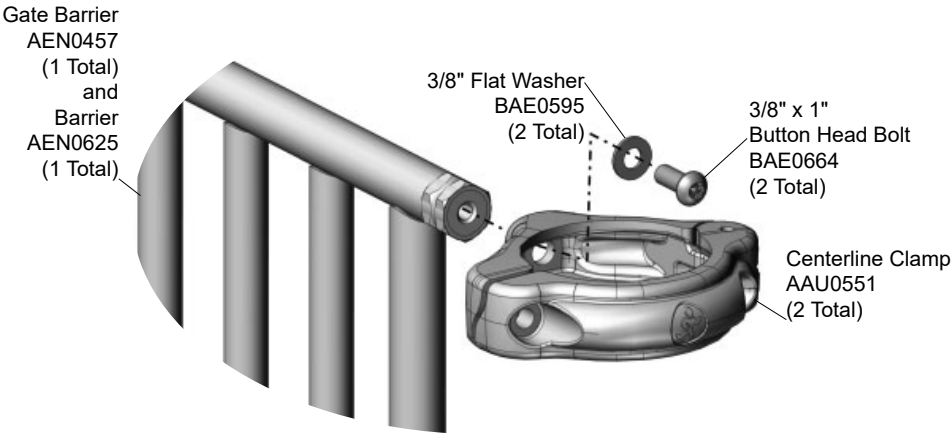
Detail I
Step 12

Fill all empty inserts on the top of the triple cubes.

Installation Instructions

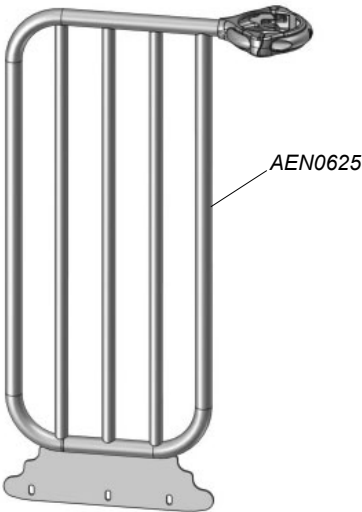
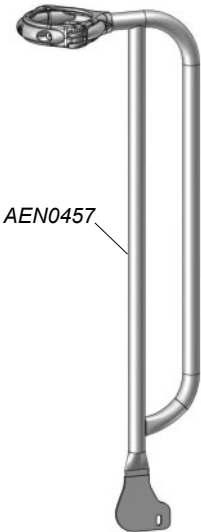


Installation Instructions

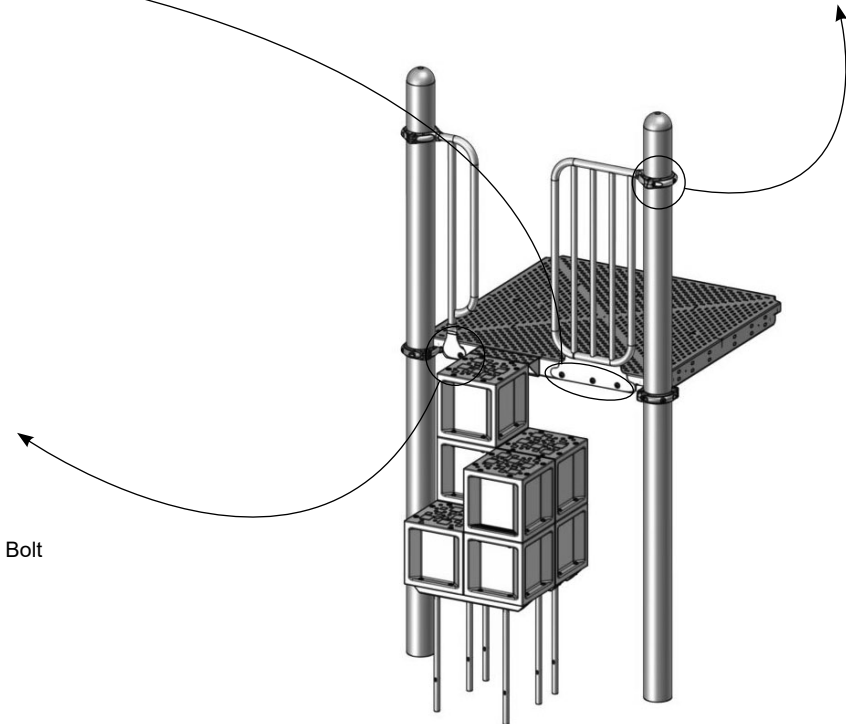
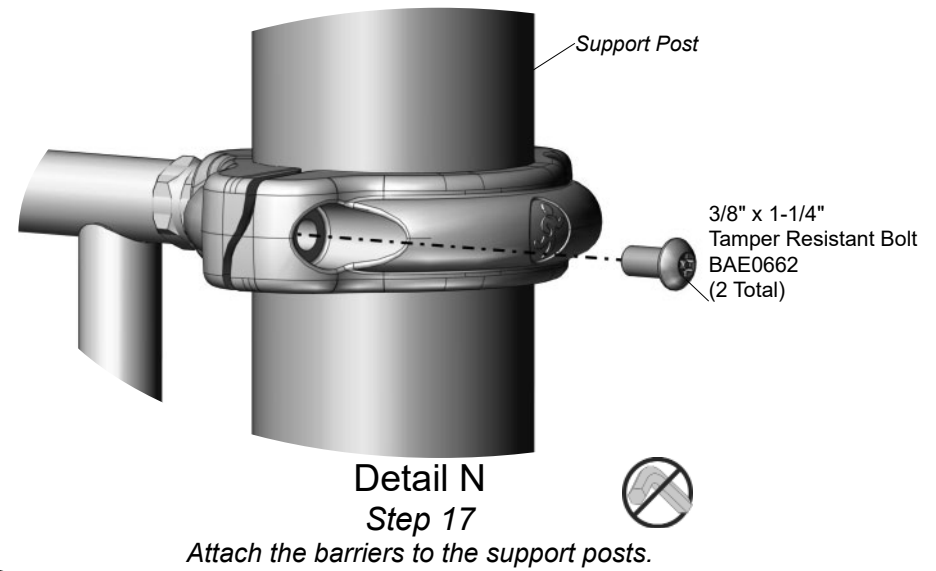
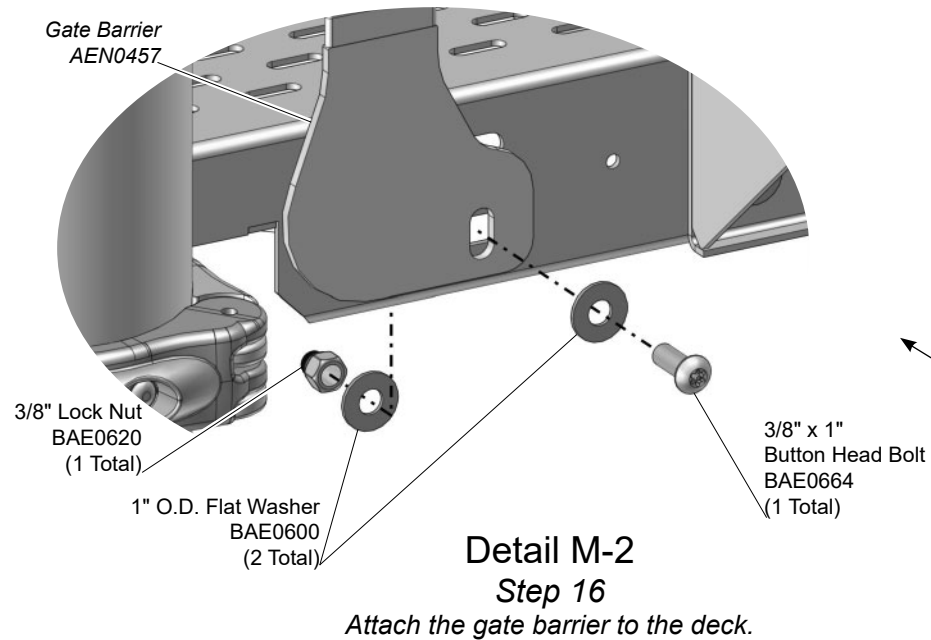
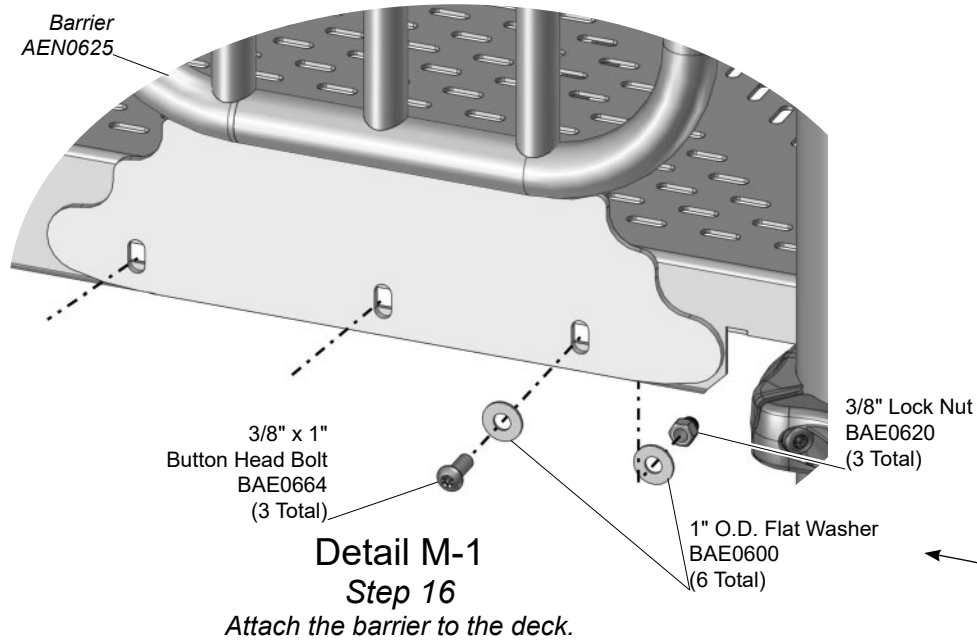


Detail L
Step 15

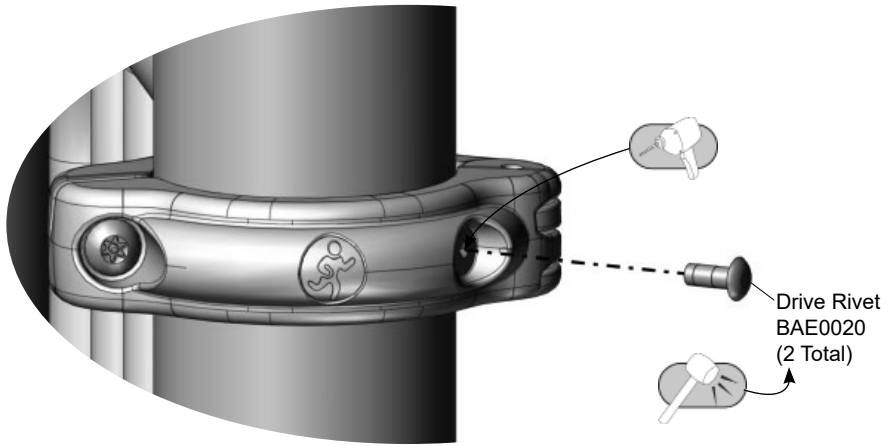
Attach the clamps to the barriers.



Installation Instructions



Installation Instructions



Detail O
Step 21

Secure the clamps to the support posts.

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing and Surface Mount Detail** in the Guidelines at the beginning of this instruction booklet and on pages 4 and 5 of this installation document.

Step 4 (Surface Mount Only): Attach the surface mount bracket to the bottom of the designated cubes. See **Detail A**. Turn the cube upside down (the "treaded" side of the cube should be facing down), position the brackets on the bottom of the cube, aligning the holes (the angled edge on the bracket should be pointing to the outside), and attach as shown. See **page 5** for placement of the brackets.
Note: Place the Triple Cube to the side until needed again at Step 6.

Step 5: Attach a Triple Cube to the 1st layer Single Cube. See **Detail B**. Position a Triple Cube on top of the Single Cube, and attach as shown. Only one side of the cubes should be attached at this time.
Note: For the Surface Mount Version, use the Single Cube from Step 4.

Step 6: Plug two holes on the 1st layer Triple Cube. See **Detail C**. Plug two holes on the Single Cube as shown on page 7. Place a ratchet rivet on the top and bottom of the holes and press together until flush with the cubes.
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Step 7: Place the Triple Cube under the cube assembly. See **Detail D**. Place the Triple cube under the cube assembly from Step 5.

Step 8: Attach the 2nd layer to the 1st layer. See **Detail E**. Place the Triple Cube on top of the 1st layer. Select the appropriate hardware, and attach as shown.

Step 9: Attach the 3rd layer to the 2nd layer. See **Detail F**. Place the Single Cube on top of the 2nd layer. Select the appropriate hardware, and attach as shown.

Step 10 (In-ground Only): Attach the footing legs to the bottom of the cubes. See **Detail G**. Turn the cube upside down (the "treaded" side of the cube should be facing down), position the brackets on the bottom of the cube, aligning the holes. Attach as shown. See **page 10** for placement of the footing legs.

Step 11: Plug all empty holes around the outside of the cubes. See **Detail H**. Plug all empty holes on the outside of the cubes with the ratchet rivets. Place a ratchet rivet on the top and bottom of the holes and press together until flush with the cubes. If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Note: There are two holes on the top of the single cube (4th layer) that should not be filled at this time, they should remain open until Step 14 when attaching the cubes to the deck bracket. See **page 11** for detail.

Step 12: Fill all empty inserts on the top of the Triple Cubes. See **Detail I**. If there are any empty inserts on the tops of the Triple Cubes, fill these holes with the bolts as shown.

Step 13: Attach the deck bracket to the deck. See **Detail J**. Align the holes of the bracket with the top and bottom holes on the existing deck.

Note: Attach the bracket to the set of holes on the deck that are second and fourth from the left side. Leave the first set of holes on the left open for installation of gate barrier.

Step 14: Attach the cube assembly to the deck bracket. See **Detail K**. Place the cube assembly in or on the footings. Position the Single Cube on the lip of the deck bracket so the top of the cube is flush with the deck bracket. Align the holes, and attach as shown.

Step 15: Attach the clamps to the barriers. See **Detail L**. Align the hole in the clamp with the hole on the end of each barrier, and attach as shown.

Installation Instructions

Step 16: Attach the barriers to the deck. See **Details M-1** and **M-2**. Position the barriers against the deck, align the holes on the barriers with the bottom holes on the deck, and attach as shown.

Step 17: Attach the barriers to the support posts. See **Detail N**. Close the clamps around the support posts, and attach as shown.

Final Details.

Step 18: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Step 19 (In-ground Only): Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 20 (Surface Mount Only): Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

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

Step 21: Install drive rivets. See **Detail O**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

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

Bill of Materials

PM7087 - 48" CLIMBING SQUARES

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0457	BARRIER - 42.07" x 7.75" GATE	1
AEN0625	BARRIER - 18.50" x 42.20"	1
AFR1903	FOOTING - DOUBLE CUBE	3
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	42
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	20
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - S.S.	6
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	20
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	10
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	2
BPL3182	SINGLE CUBE	2
BPL3183	TRIPLE CUBE	2
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	72
BPM0331	FRAME - 12.00" x 5.33" x 3.50"	1

PM7087S - 48" CLIMBING SQUARES SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0457	BARRIER - 42.07" x 7.75" GATE	1
AEN0625	BARRIER - 17.75" x 42.20"	1
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	10
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	50
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	20
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - S.S.	6
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	4
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	20
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	13
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	2
BPL3182	SINGLE CUBE	2
BPL3183	TRIPLE CUBE	2
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	72
BPM0331	FRAME - 12.00" x 5.33" x 3.50"	1



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Assembly View (representative model)

Model	Deck Height
ZZPM7168	72" (1829 mm)
ZZPM7169	84" (2134 mm)
ZZPM7170	96" (2438 mm)

Installation Instructions

Playmakers® Models PM7168,
PM7169, and PM7170


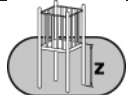

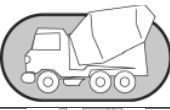
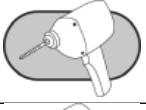

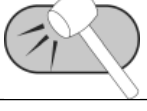
Tower Climber

6 ft. (1829 mm), 7 ft. (2134 mm), and 8 ft. (2438 mm)

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.06 cubic yard (0,04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

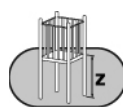
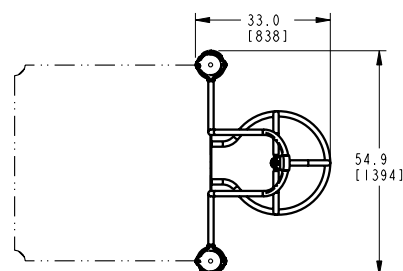
ICON KEY

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

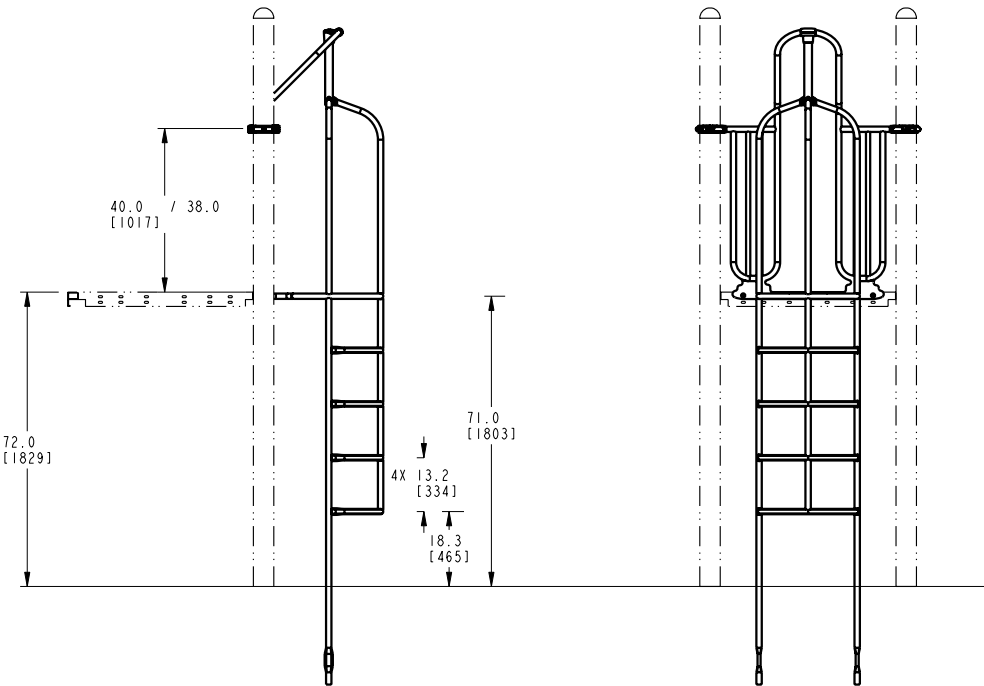
Installation Instructions

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

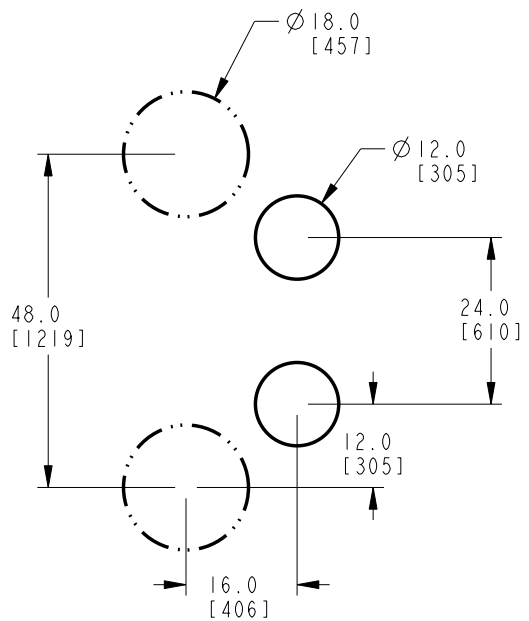
Top View



72" (1829 mm)



Elevation Views
ZZPM7168



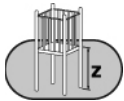
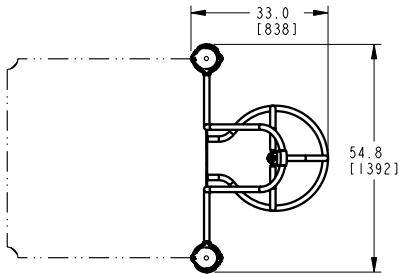
Footing Diagram
All Models



Installation Instructions

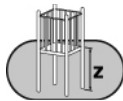
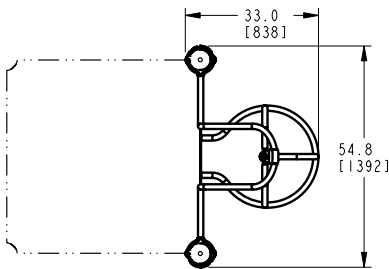
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

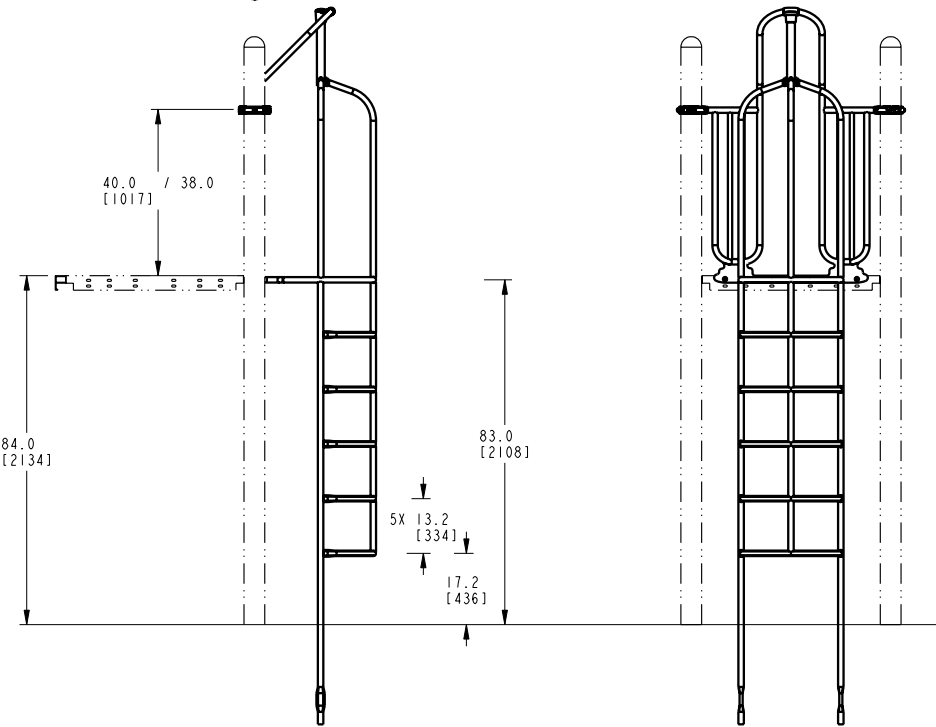


84" (2134 mm)

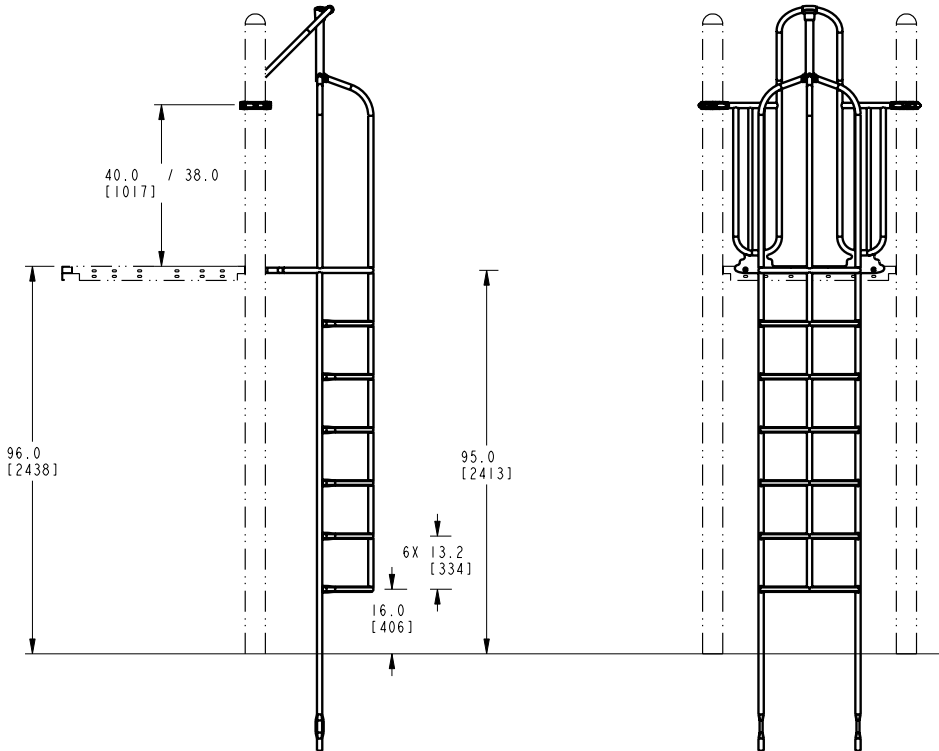
Top View



96" (2438 mm)



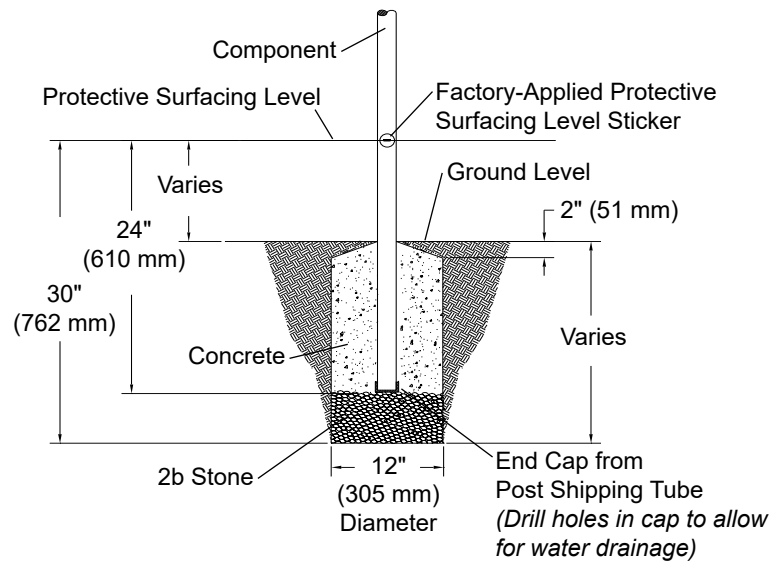
Elevation Views
ZZPM7169



Elevation Views
ZZPM7170



Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

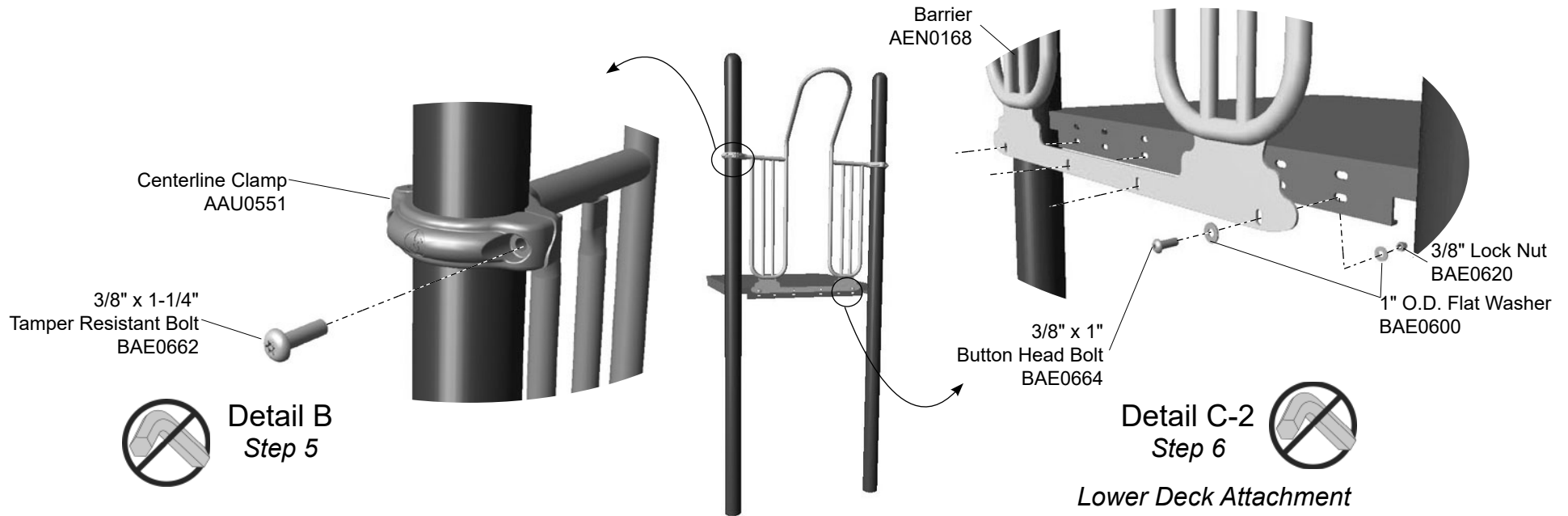
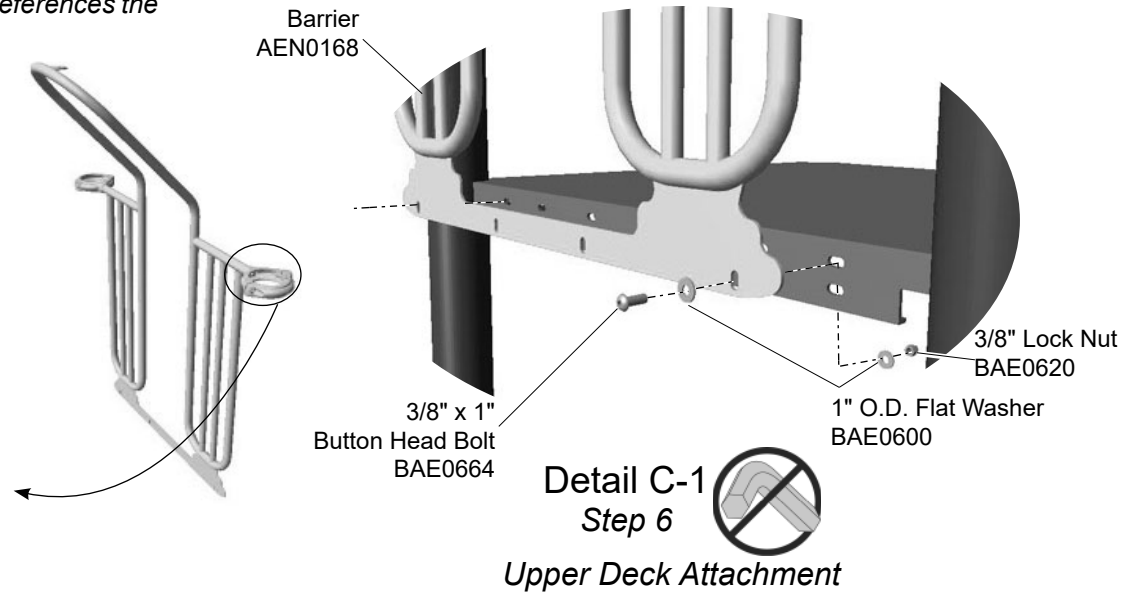
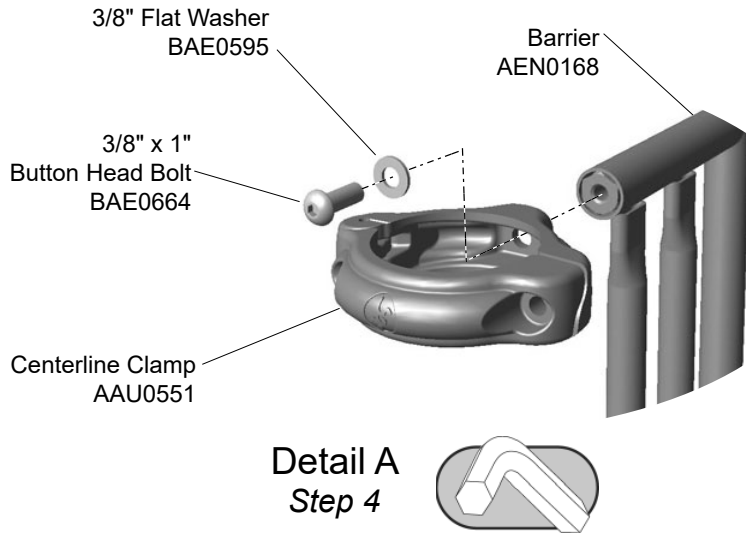
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

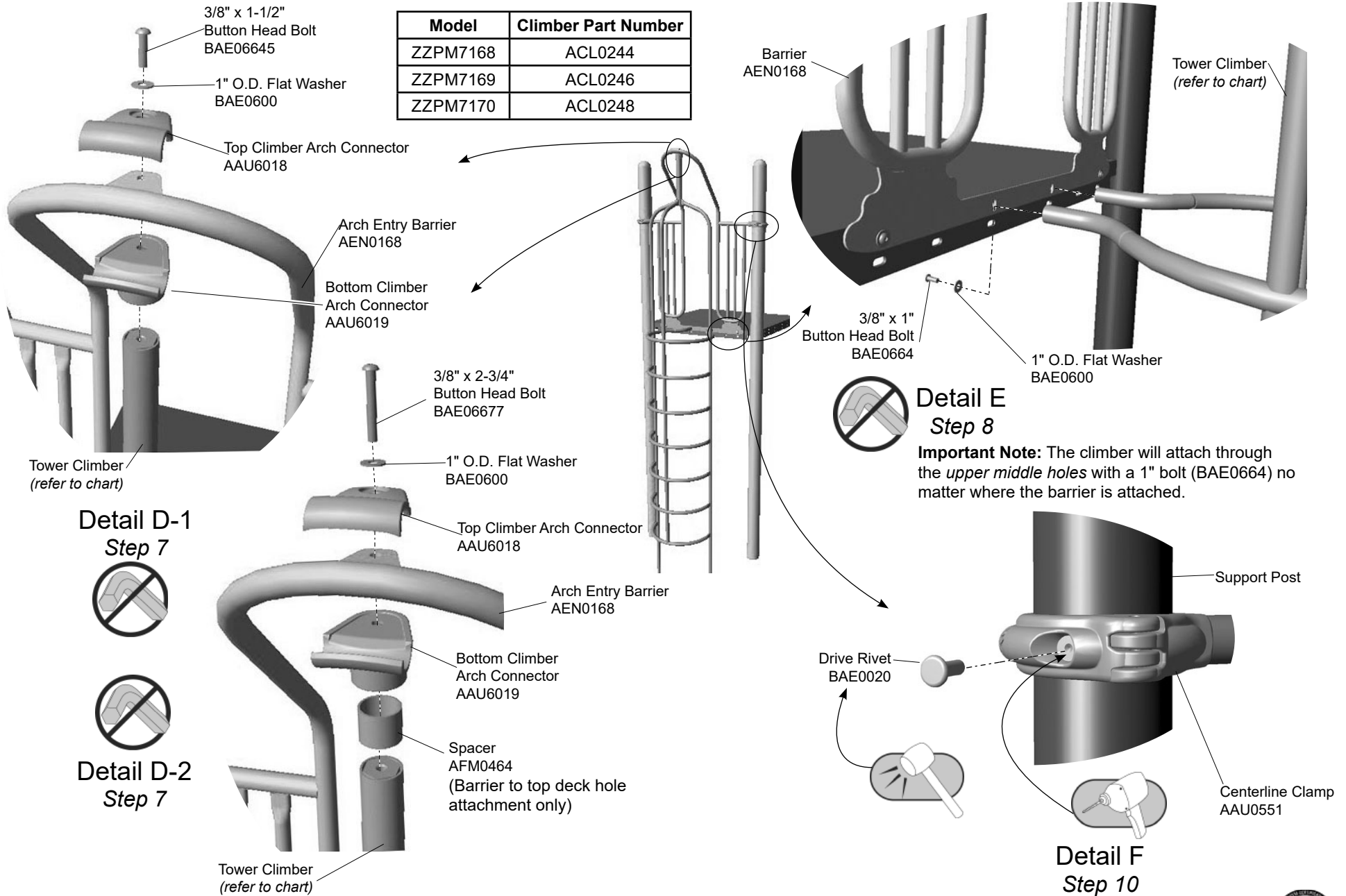
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

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



Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines* and on page 4 of this installation document.

Attach the clamps to the arch entry barrier.

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

Attach the clamps to the support posts.

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

Attach the barrier to the deck.

Step 6: Attach the barrier to the deck. See **Detail C-1 or Detail C-2**. Select the appropriate hardware. The barrier can be attached to either the *upper* or *lower* deck holes to avoid conflicts with adjacent clamps. Follow the appropriate direction.

Upper deck attachment: If the barrier attaches to the upper deck holes, there are (2) two connections. See **Detail C-1**. *Attach only the outside holes*. Attach as shown.

Lower deck attachment: If the barrier attaches to the lower deck holes, there are (4) four connections. See **Detail C-2**. *Connect through all four holes*. Attach as shown.

Note: The upper or lower deck attachment will effect connections in **Step 7**.

Attach the climber to the barrier.

Step 7: Attach the climber to the top of the barrier. See **Details D-1 and D-2**. Select the climber, the top and bottom climber connectors, the spacer, and the appropriate hardware. There is (1) one connection. Place the climber into the excavated footing. Align the climber with the holes in the barrier. If the barrier is mounted to the lower deck holes, *do not use the spacer*. Refer to **Detail D-1**. If the barrier is mounted in the *upper* set of deck holes, *use the spacer as shown*. Refer to **Detail D-2**. Do not fully tighten the connection.

Step 8: Attach the climber to the barrier/deck. See **Detail E**. Select the appropriate hardware. There are (2) two connections. Align the climber with the *upper* holes in the barrier. Attach as shown.

Important Note: The climber will attach through the *upper middle holes* with a 1" bolt (BAE0664) no matter where the barrier is attached in **step 6**.

Final Details.

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

Torque Specifications:

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

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

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

PM7168 - 6 ft. (1829 mm) TOWER CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0244	CLIMBER - 6' TOWER	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1

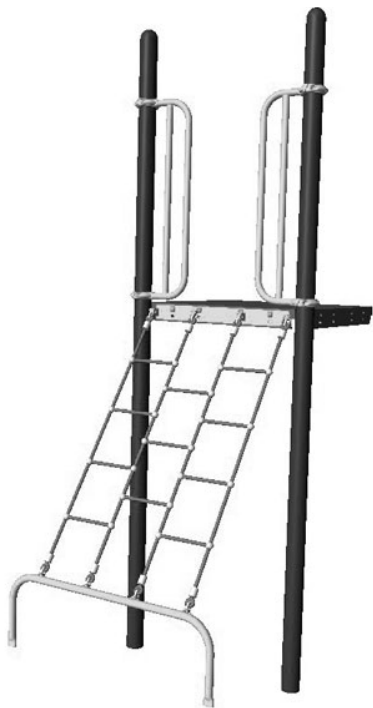
PM7170 - 8 ft. (2438 mm) TOWER CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0248	CLIMBER - 8' TOWER	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1

PM7169 - 7 ft. (2134 mm) TOWER CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0246	CLIMBER - 7' TOWER	1
AEN0168	BARRIER - ARCH ENTRY 65.98" x 41.00"	1
AFM0464	CUT TUBING - 1.90" O.D. x 1.50"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1





Assembly View (representative model)

Model	Deck Height
ZZPM7226	36" (915 mm)
ZZPM7227	48" (1220 mm)

Installation Instructions

Playmakers® Models PM7226 and PM7227


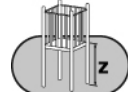

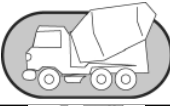


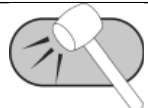
Rope Climber

36 in. (914 mm) and 48 in. (1219 mm) Decks

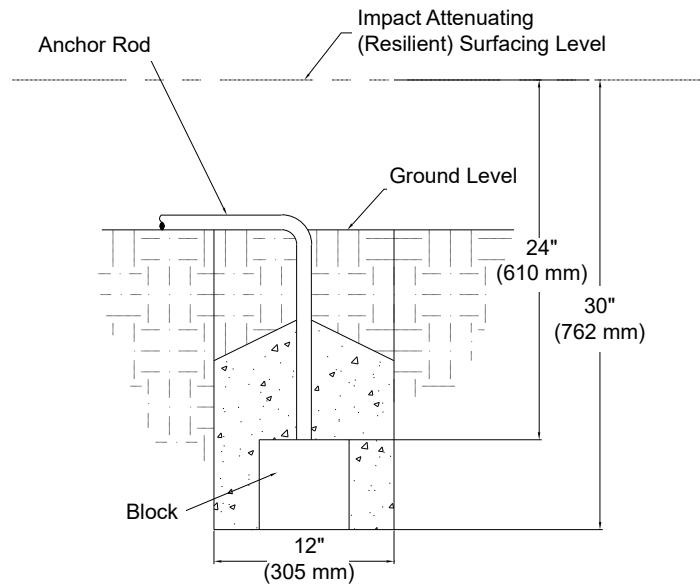
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 2 hours
 Concrete Required: 0.06 cubic yard (0,05 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

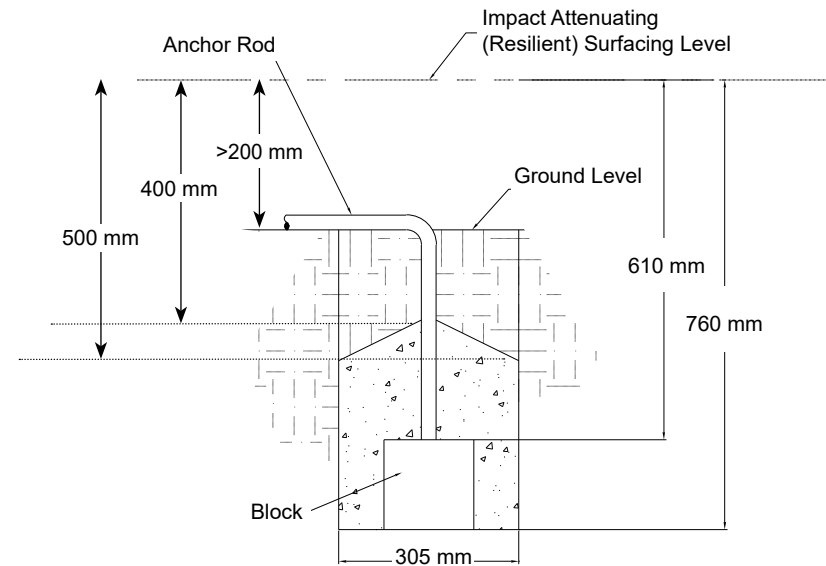
ICON KEY

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

Installation Instructions



Footing Detail (ASTM/CSA)

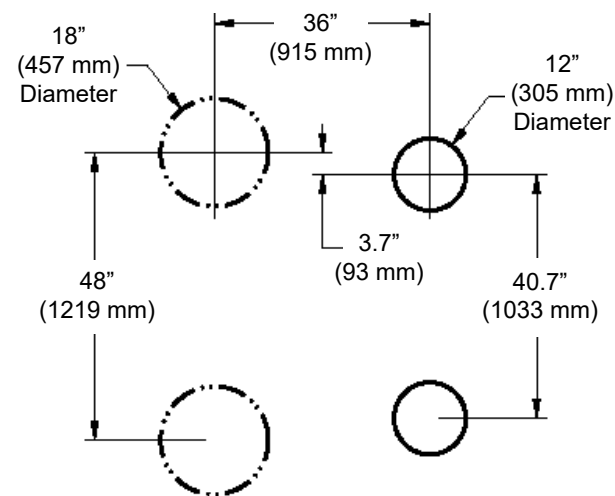
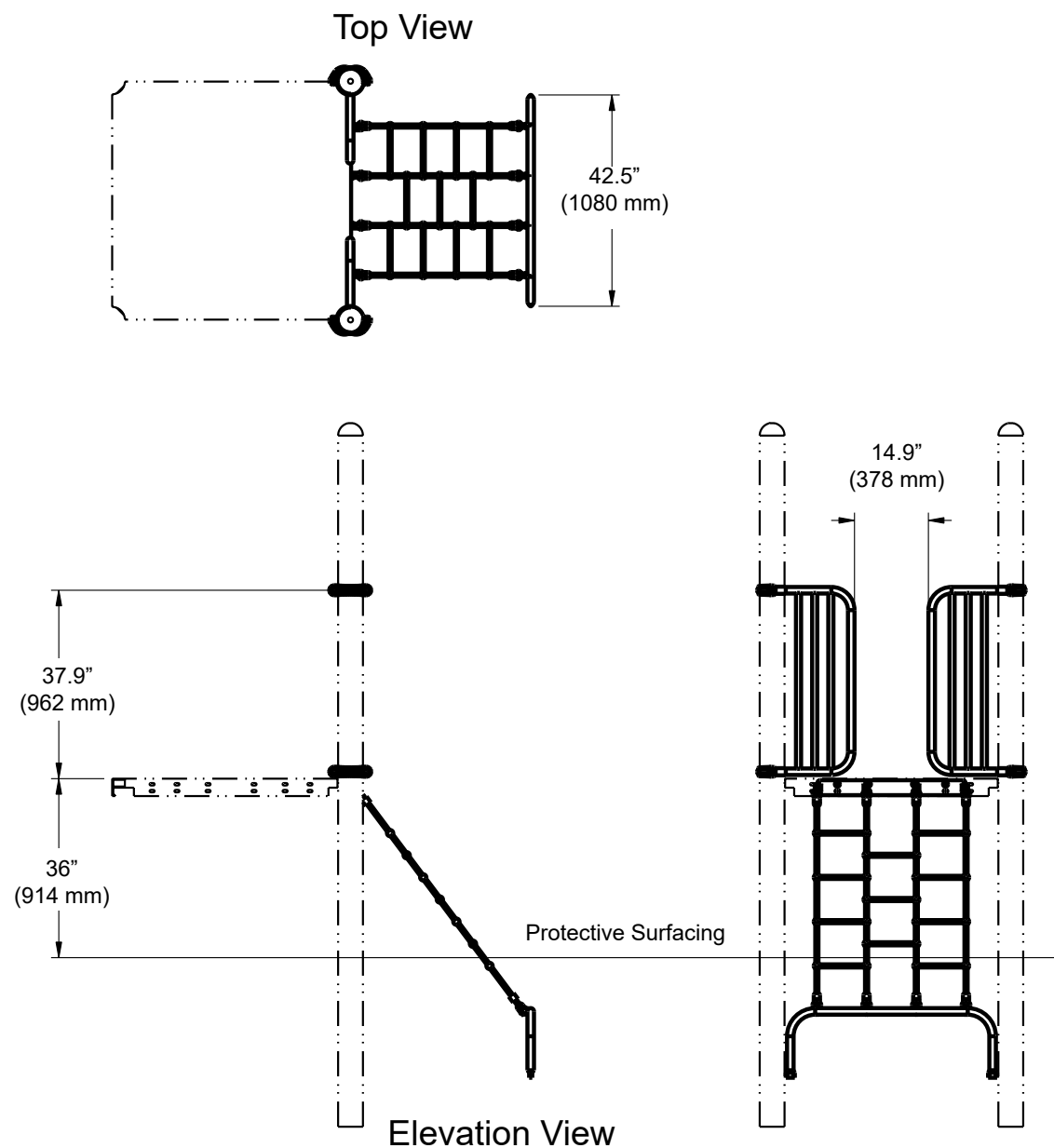


Footing Detail (EN)

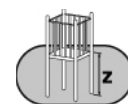
FOOTING NOTES

- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The anchor must have at least 6" (150 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions. For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

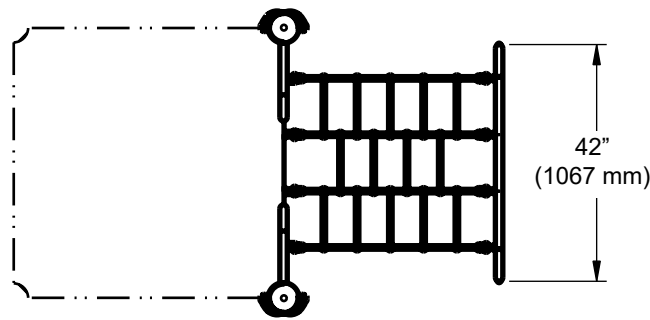


Footing Diagram

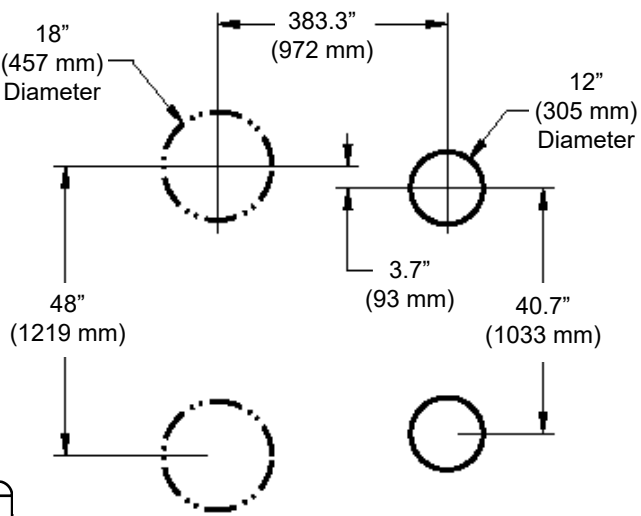


Height of the deck

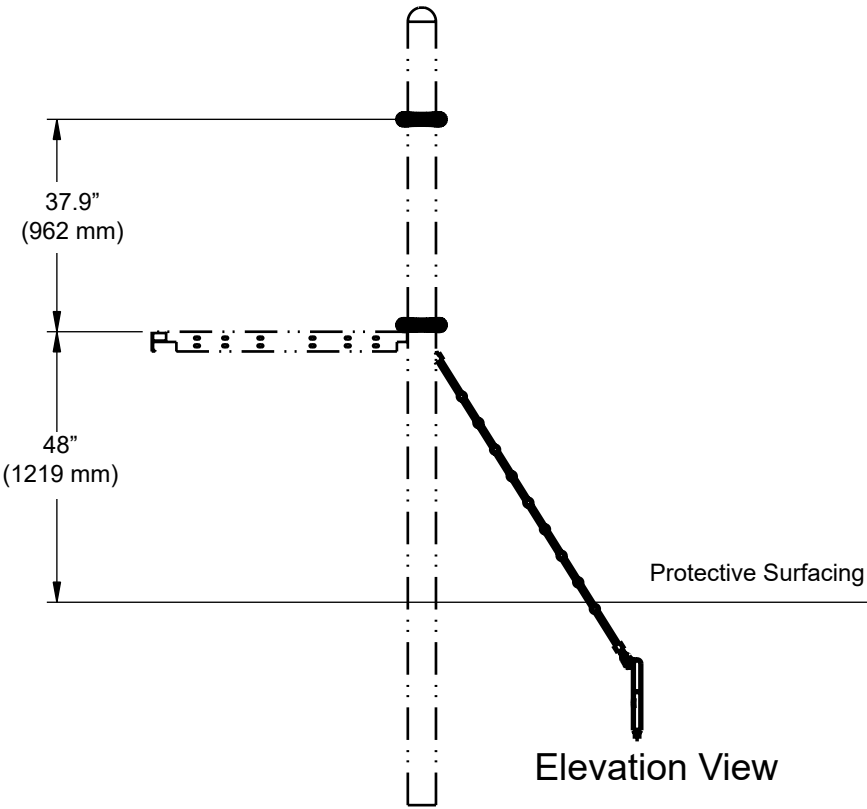
Installation Instructions



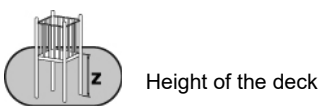
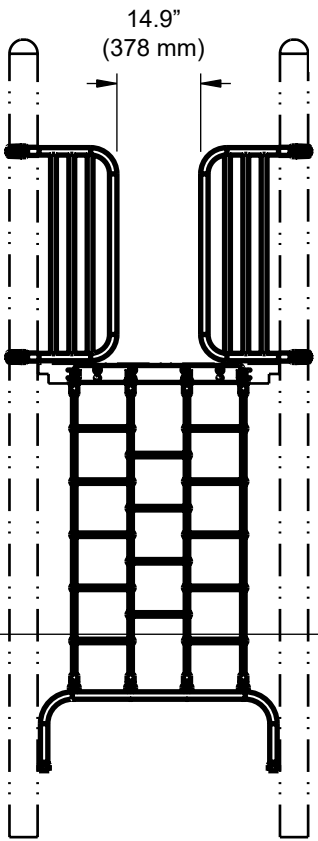
Top View



Footing Diagram

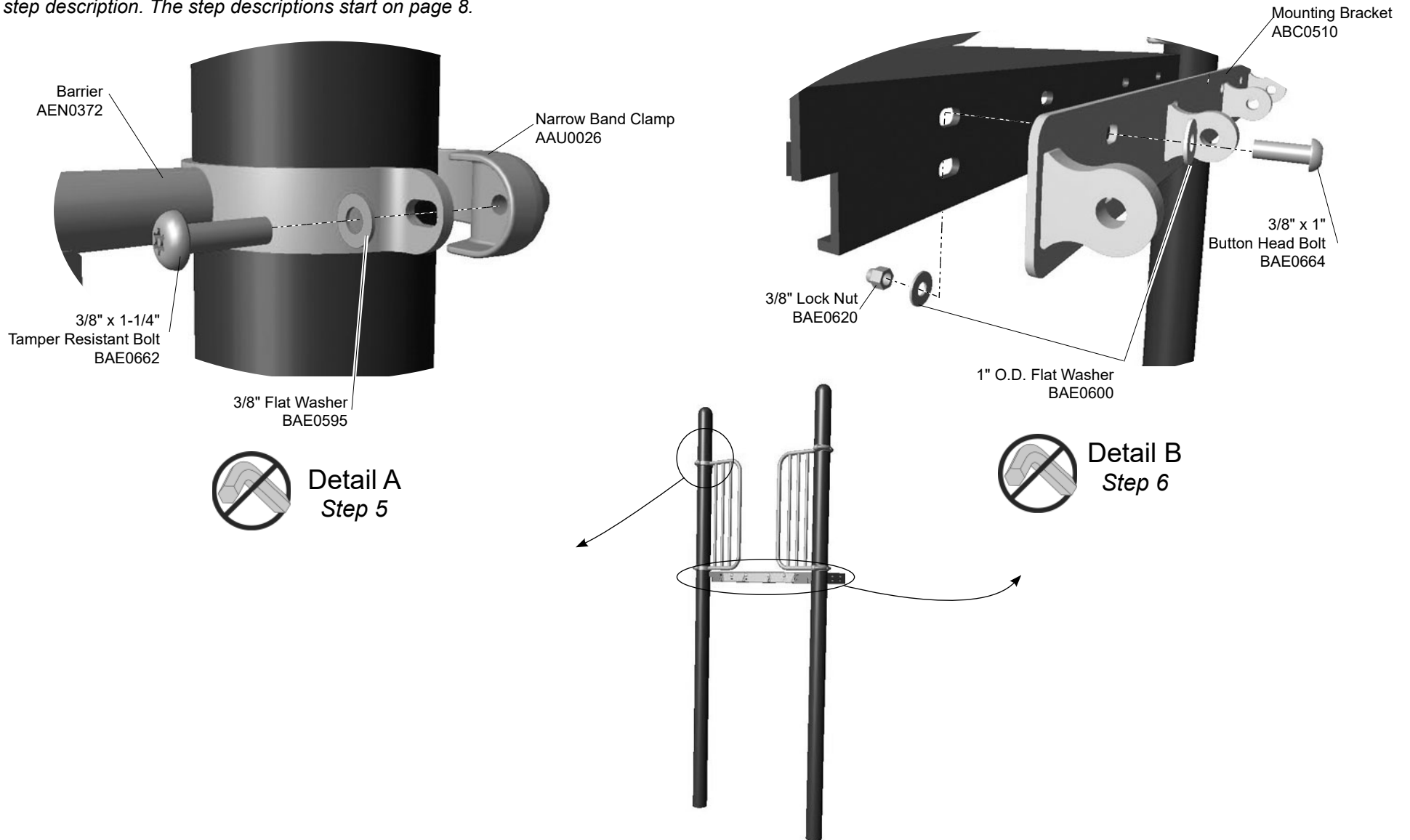


Elevation View

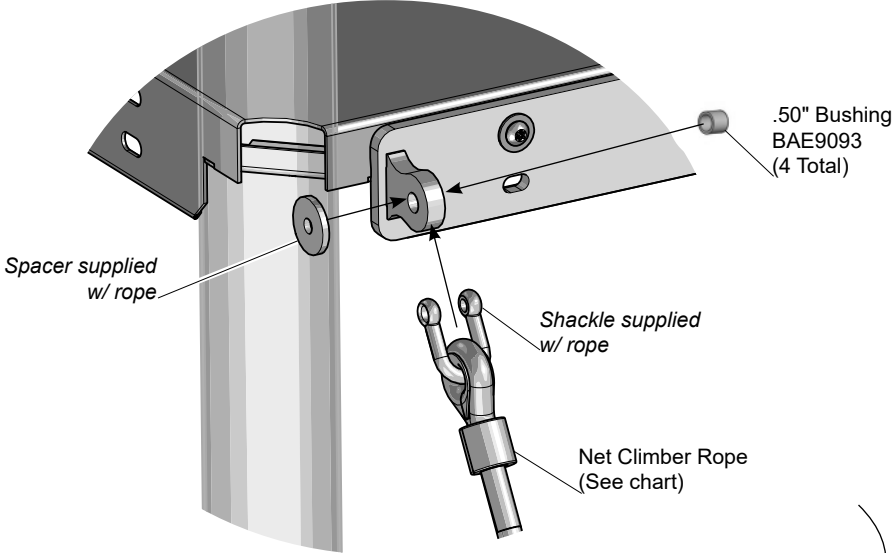


Installation Instructions

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

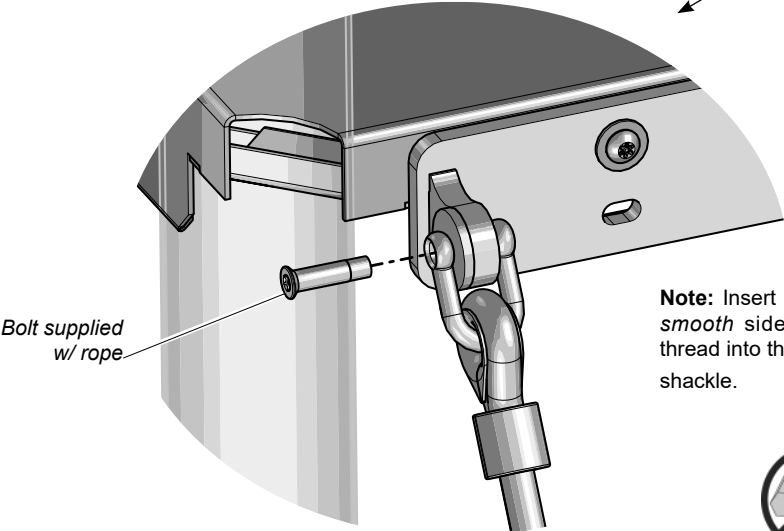


Installation Instructions



Note: The post is shown transparent for ease of viewing the connection.

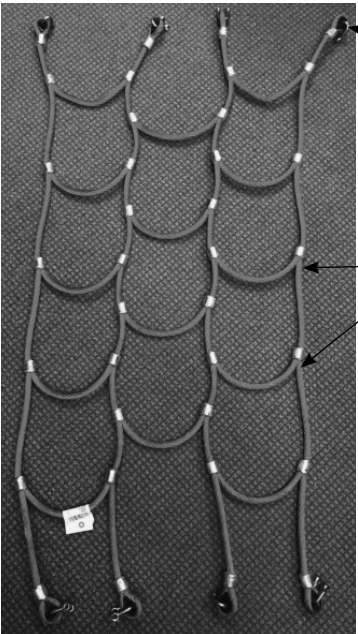
Detail C-1
Step 7



Note: Insert each bolt through the *smooth* side of the shackle and thread into the threaded side of the shackle.

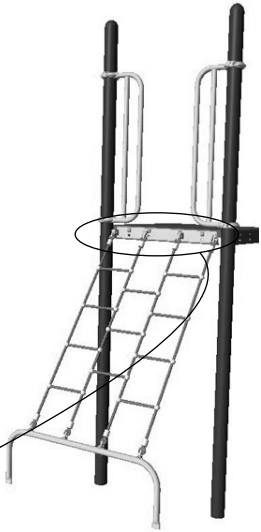


Detail C-2
Step 7



This end of the rope
attaches to the deck

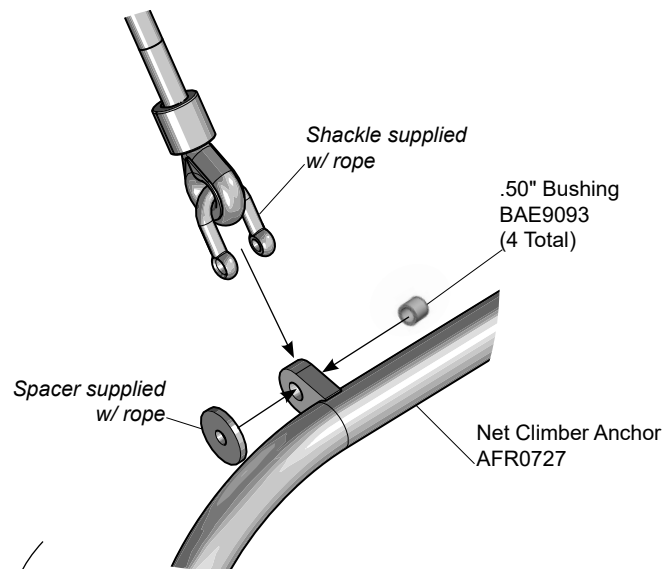
Important Note: The rope must be installed with the "V's" pointing downward.



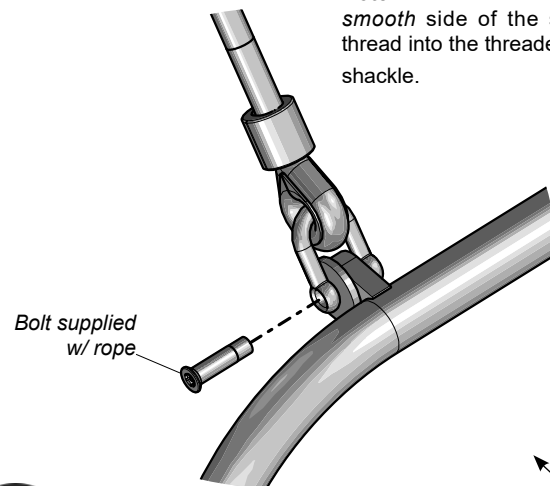
Model	Rope Part Number
ZZPM7226	AMC0323
ZZPM7227	AMC0324



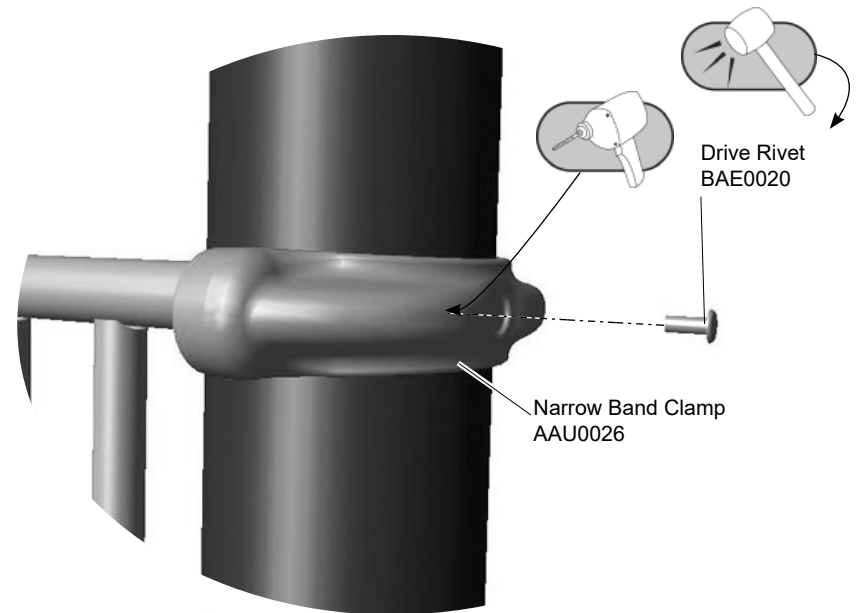
Installation Instructions



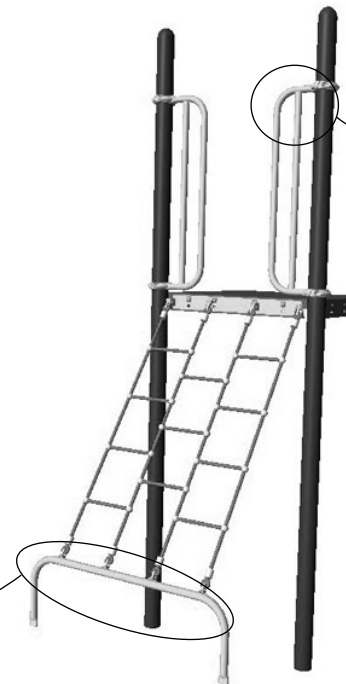
Note: Insert each bolt through the *smooth* side of the shackle and thread into the threaded side of the shackle.



Detail D
Step 8



Detail E
Step 10



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Determine placement and height of the chain net climber by referring to the composite master footing diagram and associated **Elevation View**.

Step 4: Excavate footings as shown in the **Component Footing Details** in the *Guidelines on page 2 of this document*.

Attach the barrier gates to the support post.

Step 5: Attach the barrier gates to the support posts. See **Detail A**. Select both barriers, the clamp bands and the appropriate hardware. There are (2) two connections per clamp, (8) eight total connections. Position each barrier to the inside of the support posts with the mounting bands around the posts. Position each clamp band around a post and against a barrier mounting band and align holes. Attach as shown. Position barriers to the height indicated on the **Elevation View** and snug tighten connections.

Note: Barriers may be moved up or down to prevent clamp conflicts, however, the bottom of the barrier must be less than 3.5" from the deck surface.

Attach the the mounting bracket to the deck.

Step 6: Attach the mounting bracket to the deck. See **Detail B**. Select the mounting bracket, and the appropriate hardware. There are (4) four connections. Position the mounting bracket against the side of the deck over the middle (4) four holes and align the holes. Attach as shown through the *top* hole in the bracket and deck.

Attach the net climber to the mounting bracket and anchor rod.

Step 7: Attach net climber to mounting bracket. See **Details C-1 and C-2**. Insert bushings in tabs. Select the net. There are (4) four connections. Spread the net out on the ground with one end facing the deck and the other facing the footing. Remove the bolt from the shackle at the end of the rope and align the end of each shackle around the mounting bracket. Insert each bolt through the *smooth* side of the shackle, the net, and thread into the opposite side of the shackle.

Step 8: Attach the chain net to the anchor rod. See **Detail D**. There are (4) four connections. Insert bushings in tabs. Place the anchor rod next to the open end of the net with the loops facing the net. Insert an anchor shackle through the end of the net. Remove the bolt from the shackle at the end of the rope and align the end of each shackle around the mounting bracket. Insert each bolt through the *smooth* side of the shackle, the net, and thread into the opposite side of the shackle. Place the anchor rod into the prepared footing.

Final Details.

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

Torque Specifications:

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

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

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

Bill of Materials

PM7226 - 36 in. (914 mm) ROPE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0510	BRACKET - NET CLIMBER	1
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0727	ANCHOR - NET CLIMBER	1
AMC0323	ROPE - 36" NET CLIMBER	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE9093	BUSHING - .399" I.D. x .56" O.D. x .50"	8

PM7227 - 48 in. (1219 mm) ROPE CLIMBER

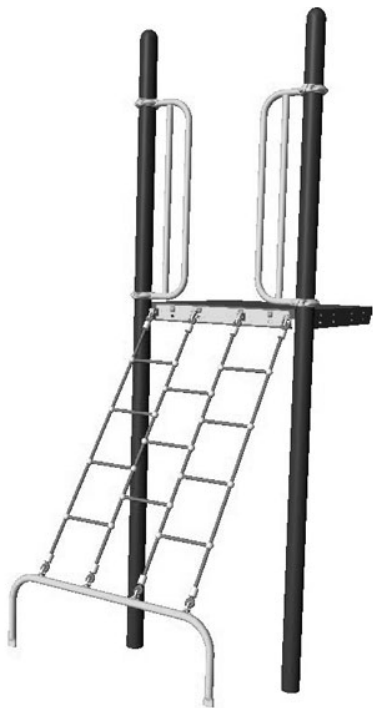
PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0510	BRACKET - NET CLIMBER	1
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0727	ANCHOR - NET CLIMBER	1
AMC0324	ROPE - 48" NET CLIMBER	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE9093	BUSHING - .399" I.D. x .56" O.D. x .50"	8



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Assembly View (representative model)

Model	Deck Height
ZZPM7226	36" (915 mm)
ZZPM7227	48" (1220 mm)

Installation Instructions

Playmakers® Models PM7226 and PM7227


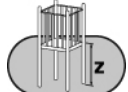

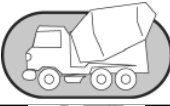


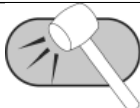
Rope Climber

36 in. (914 mm) and 48 in. (1219 mm) Decks

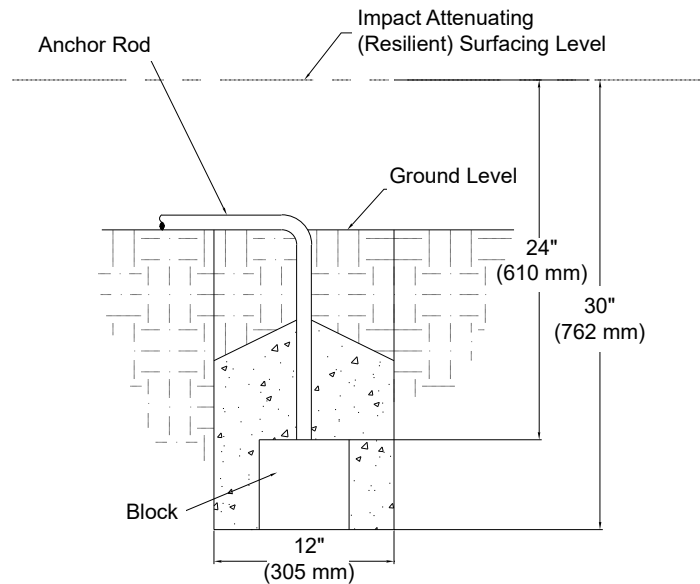
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 2 hours
 Concrete Required: 0.06 cubic yard (0,05 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

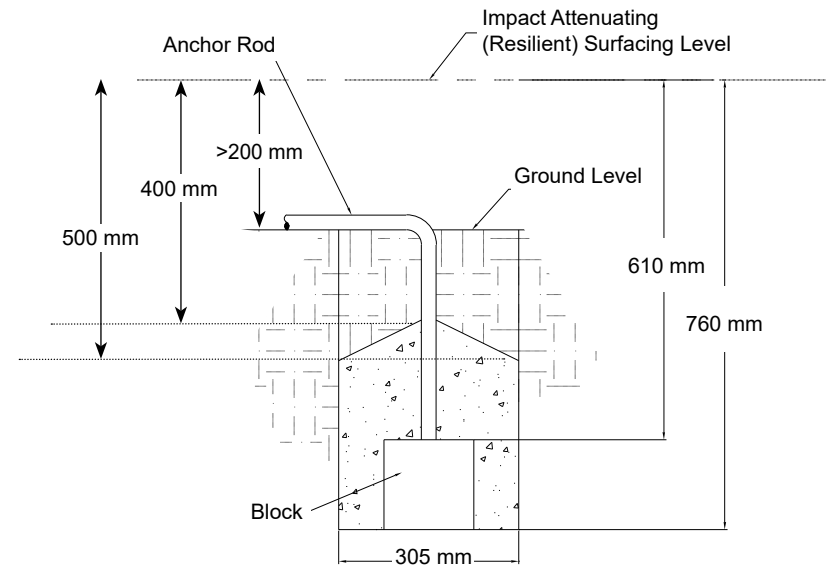
ICON KEY

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

Installation Instructions



Footing Detail (ASTM/CSA)

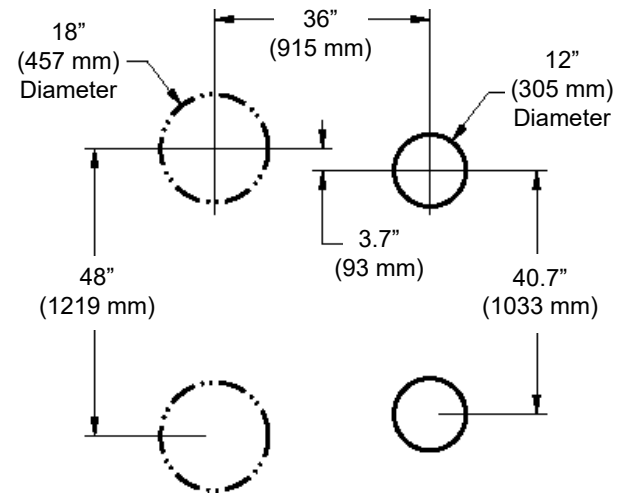
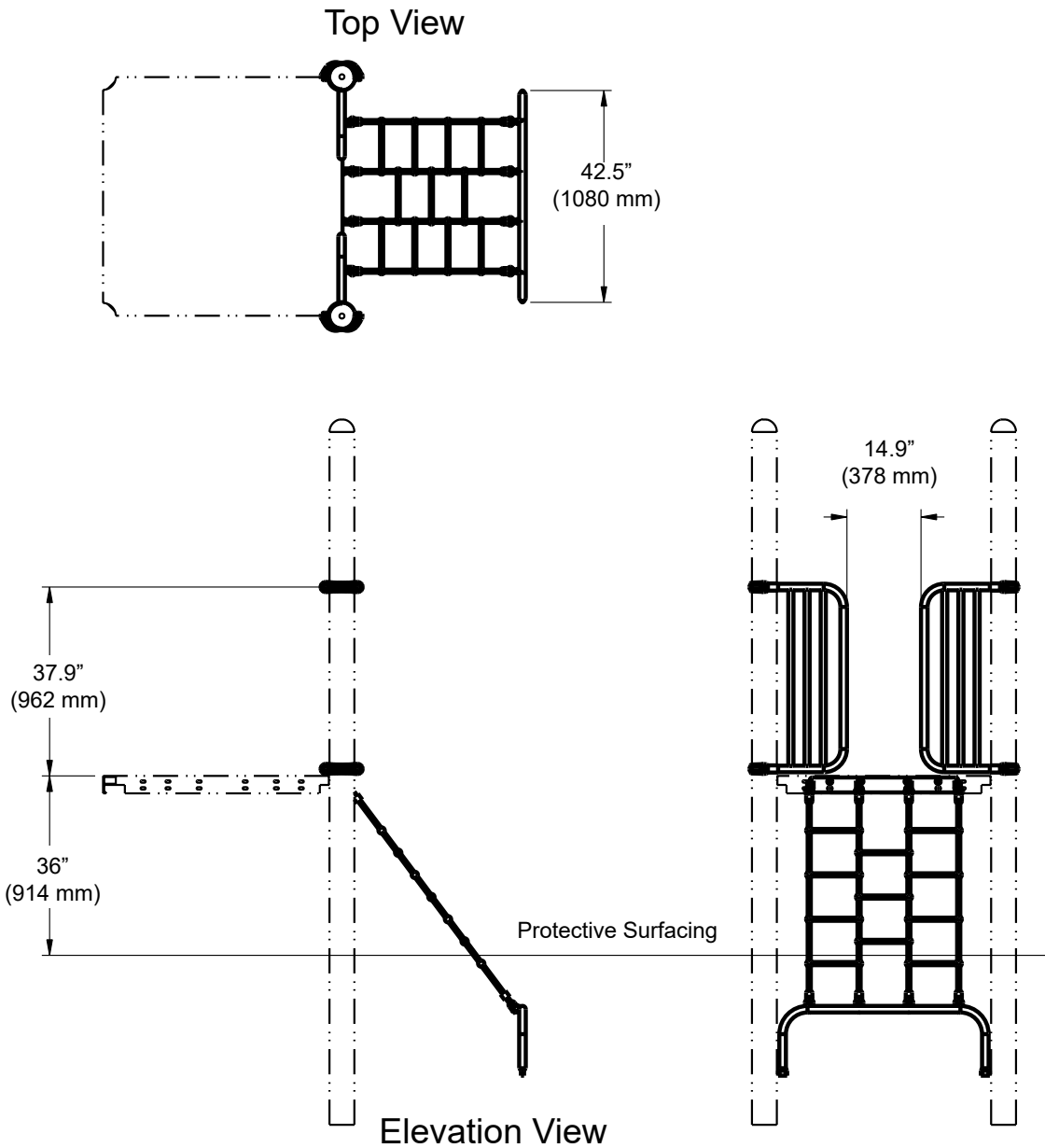


Footing Detail (EN)

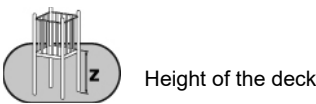
FOOTING NOTES

- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The anchor must have at least 6" (150 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions. For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

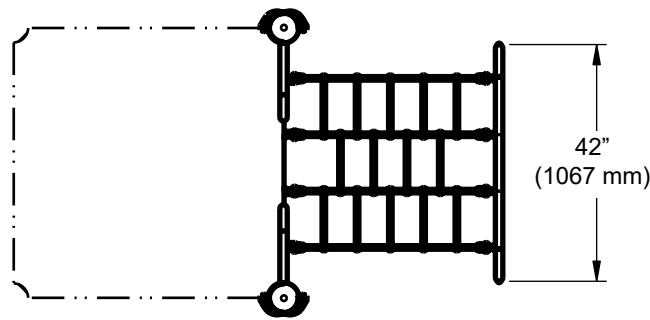
Installation Instructions



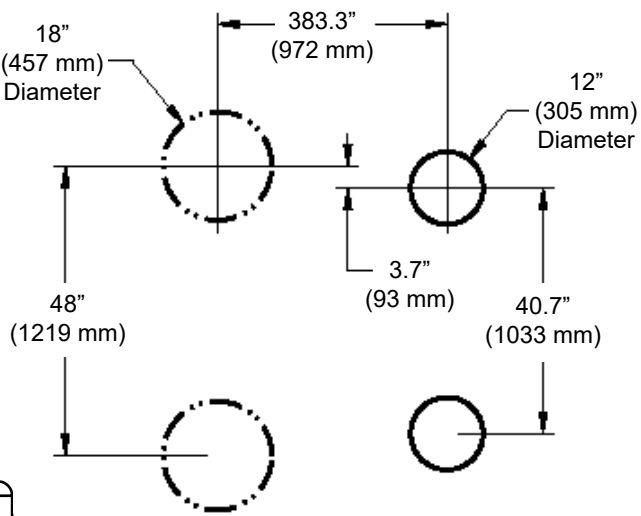
Footing Diagram



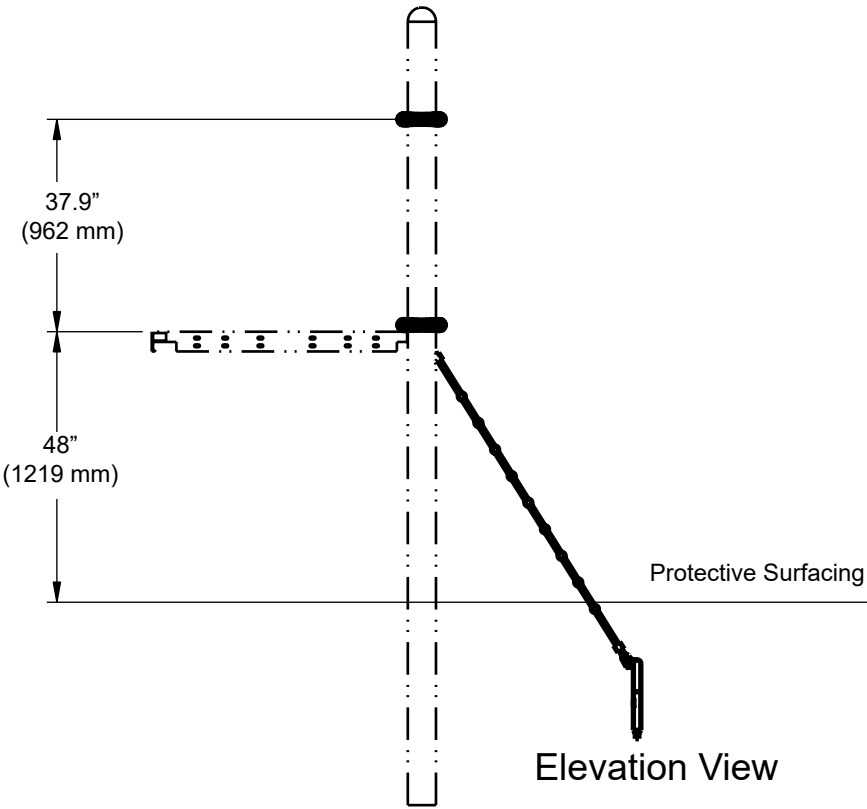
Installation Instructions



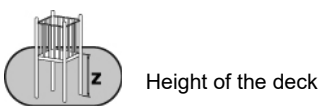
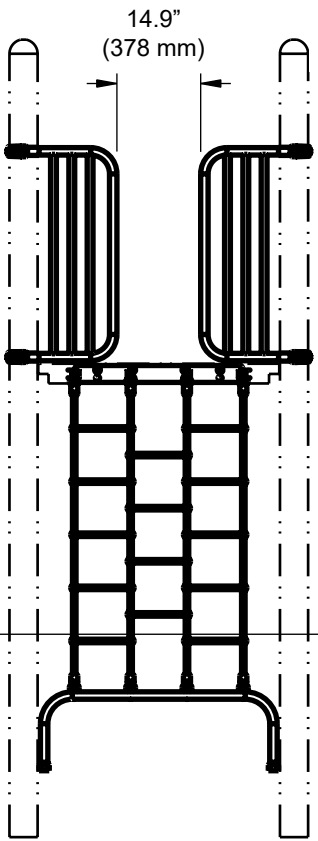
Top View



Footing Diagram

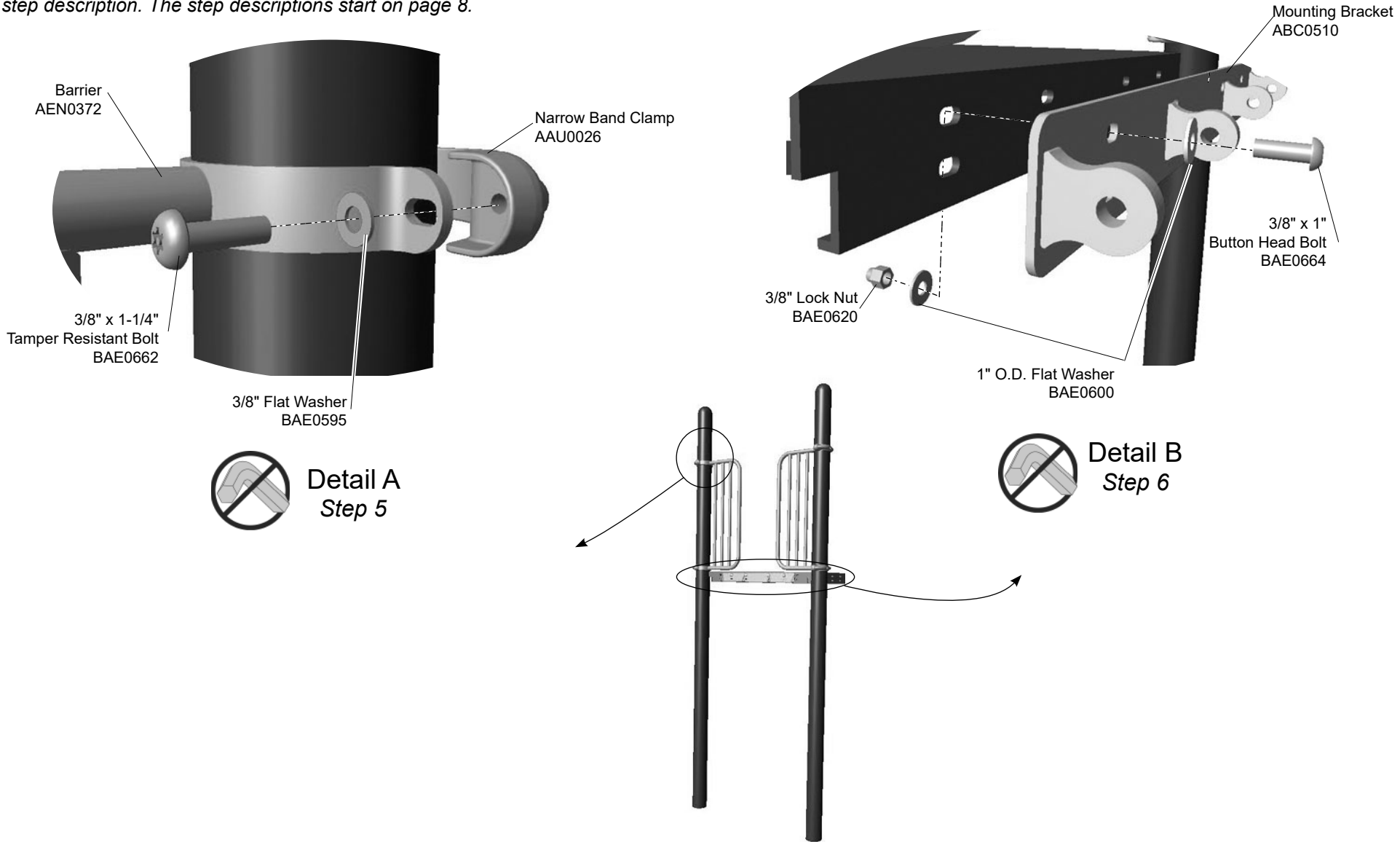


Elevation View

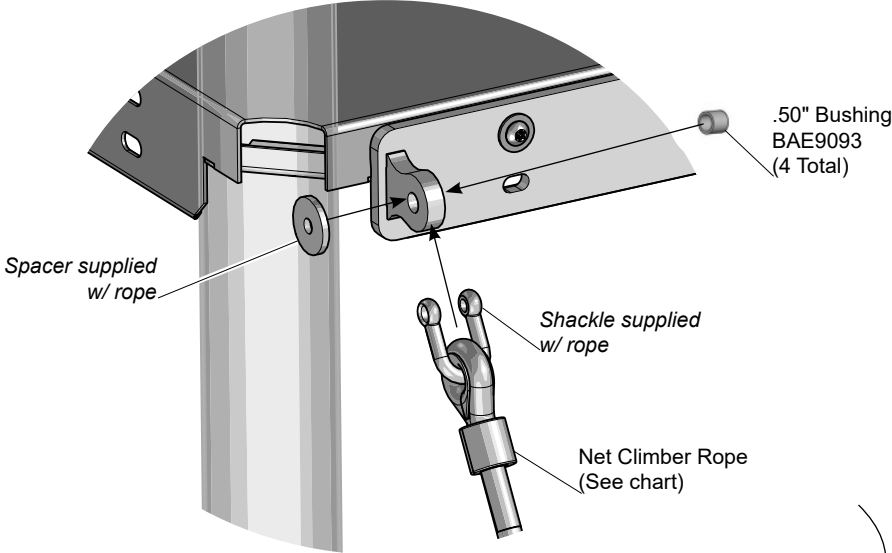


Installation Instructions

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

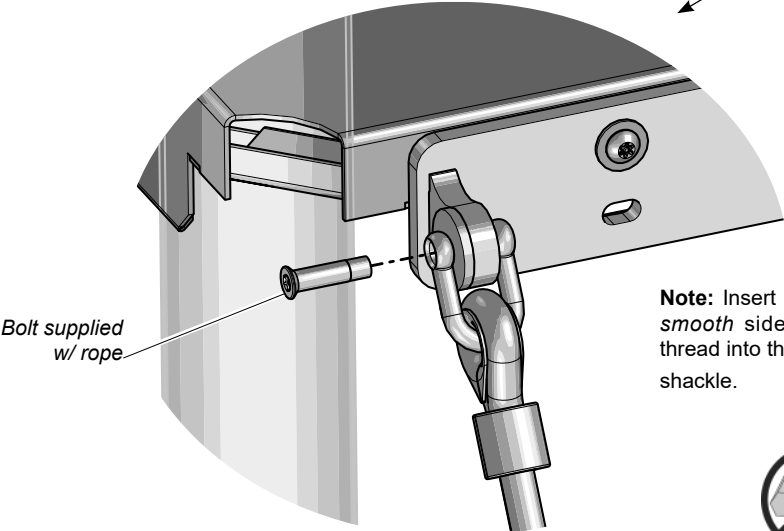


Installation Instructions



Note: The post is shown transparent for ease of viewing the connection.

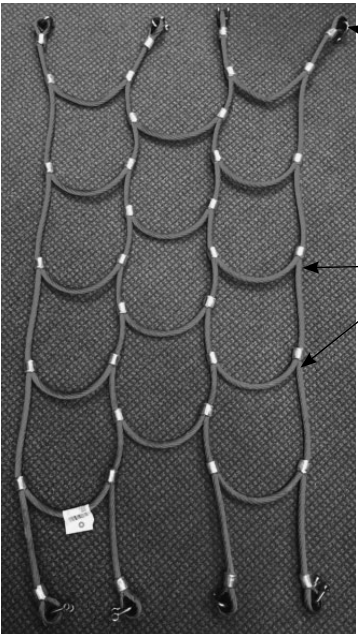
Detail C-1
Step 7



Note: Insert each bolt through the *smooth* side of the shackle and thread into the threaded side of the shackle.

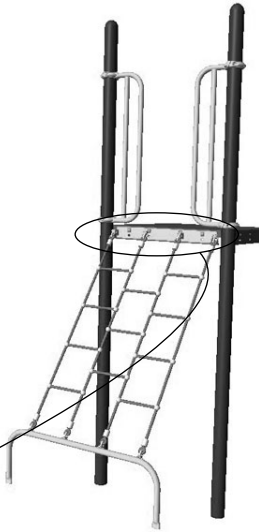


Detail C-2
Step 7



This end of the rope
attaches to the deck

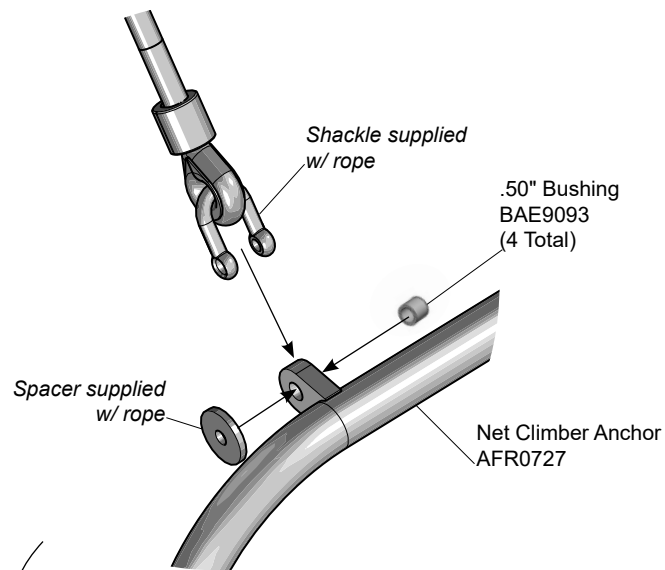
Important Note: The rope must be installed with the "V's" pointing downward.



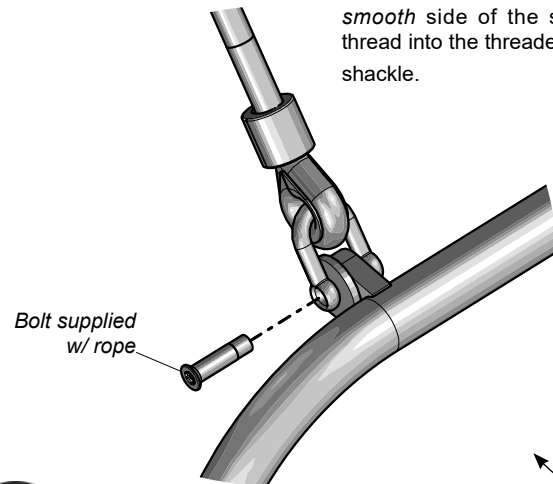
Model	Rope Part Number
ZZPM7226	AMC0323
ZZPM7227	AMC0324



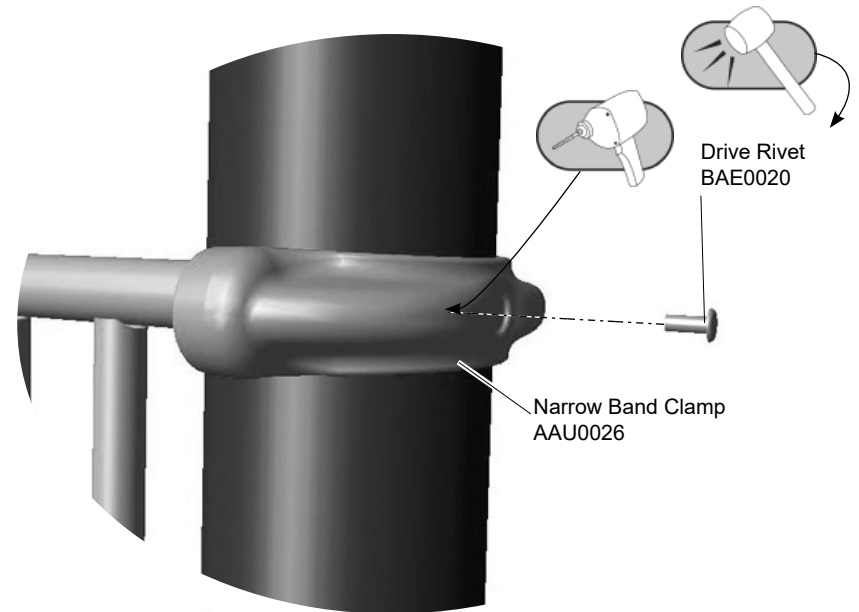
Installation Instructions



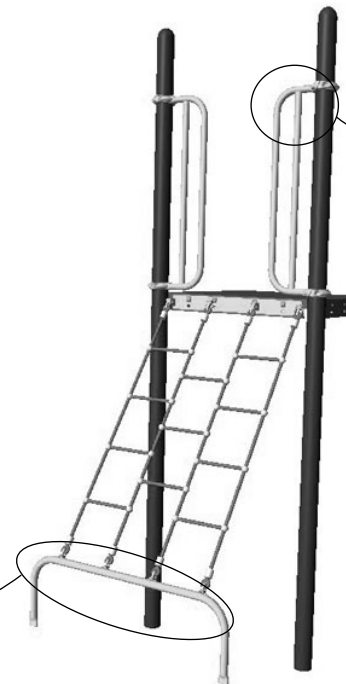
Note: Insert each bolt through the *smooth* side of the shackle and thread into the threaded side of the shackle.



Detail D
Step 8



Detail E
Step 10



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Determine placement and height of the chain net climber by referring to the composite master footing diagram and associated **Elevation View**.

Step 4: Excavate footings as shown in the **Component Footing Details** in the *Guidelines on page 2 of this document*.

Attach the barrier gates to the support post.

Step 5: Attach the barrier gates to the support posts. See **Detail A**. Select both barriers, the clamp bands and the appropriate hardware. There are (2) two connections per clamp, (8) eight total connections. Position each barrier to the inside of the support posts with the mounting bands around the posts. Position each clamp band around a post and against a barrier mounting band and align holes. Attach as shown. Position barriers to the height indicated on the **Elevation View** and snug tighten connections.

Note: Barriers may be moved up or down to prevent clamp conflicts, however, the bottom of the barrier must be less than 3.5" from the deck surface.

Attach the the mounting bracket to the deck.

Step 6: Attach the mounting bracket to the deck. See **Detail B**. Select the mounting bracket, and the appropriate hardware. There are (4) four connections. Position the mounting bracket against the side of the deck over the middle (4) four holes and align the holes. Attach as shown through the *top* hole in the bracket and deck.

Attach the net climber to the mounting bracket and anchor rod.

Step 7: Attach net climber to mounting bracket. See **Details C-1 and C-2**-. Insert bushings in tabs. Select the net. There are (4) four connections. Spread the net out on the ground with one end facing the deck and the other facing the footing. Remove the bolt from the shackle at the end of the rope and align the end of each shackle around the mounting bracket. Insert each bolt through the *smooth* side of the shackle, the net, and thread into the opposite side of the shackle.

Step 8: Attach the chain net to the anchor rod. See **Detail D**. There are (4) four connections. Insert bushings in tabs. Place the anchor rod next to the open end of the net with the loops facing the net. Insert an anchor shackle through the end of the net. Remove the bolt from the shackle at the end of the rope and align the end of each shackle around the mounting bracket. Insert each bolt through the *smooth* side of the shackle, the net, and thread into the opposite side of the shackle. Place the anchor rod into the prepared footing.

Final Details.

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

Torque Specifications:

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

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

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

Bill of Materials

PM7226 - 36 in. (914 mm) ROPE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0510	BRACKET - NET CLIMBER	1
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0727	ANCHOR - NET CLIMBER	1
AMC0323	ROPE - 36" NET CLIMBER	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE9093	BUSHING - .399" I.D. x .56" O.D. x .50"	8

PM7227 - 48 in. (1219 mm) ROPE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0510	BRACKET - NET CLIMBER	1
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0727	ANCHOR - NET CLIMBER	1
AMC0324	ROPE - 48" NET CLIMBER	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE9093	BUSHING - .399" I.D. x .56" O.D. x .50"	8



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Assembly View (representative model)

Model	Deck Height
ZZPM7657	36" (915 mm)
ZZPM7658	48" (1220 mm)
ZZPM7659	60" (1525 mm)
ZZPM7666	72" (1830 mm)

Installation Instructions

Playmakers® Models PM7657,
PM7658, PM7659, and PM7666


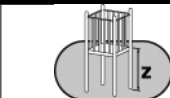




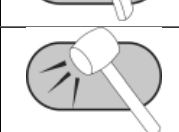
Solar Climbers

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

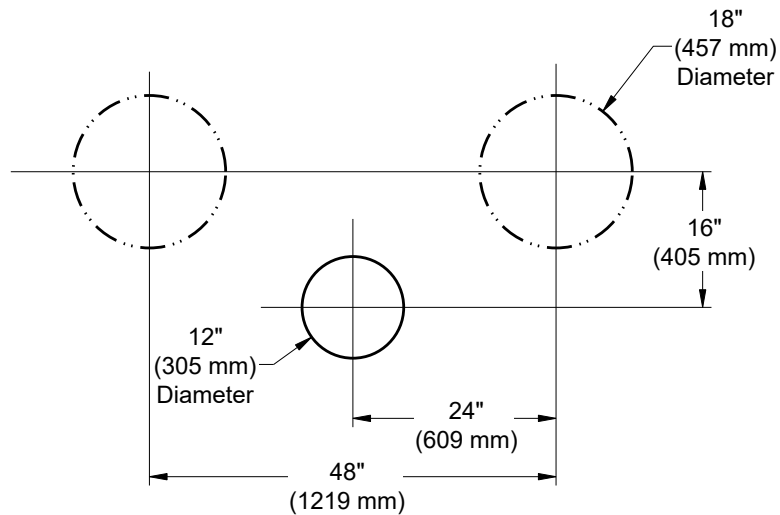
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (36"-60" decks): ASTM/CSA: 2-12, EN: 2-14
 User Group Age (60"-72" decks): ASTM/CSA: 5-12, EN: 6-14

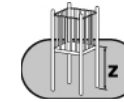
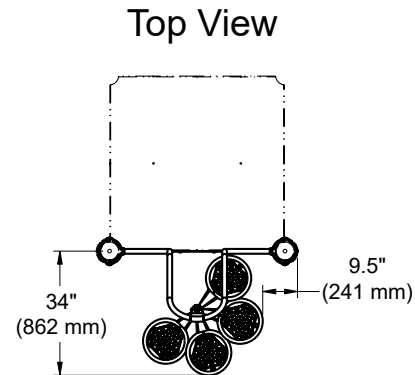
ICON KEY

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

Installation Instructions



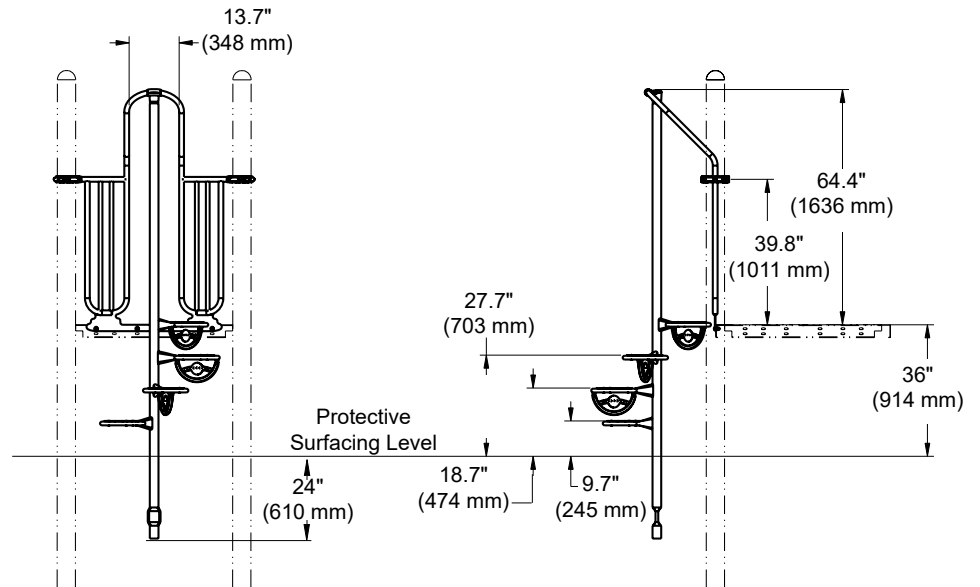
Footing Diagram



Critical Fall Height
EN: 915 mm

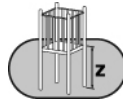
Note:

For the 30" (762 mm) deck the dimension from the protective surfacing level to the bottom of the climber is 30" (762 mm).



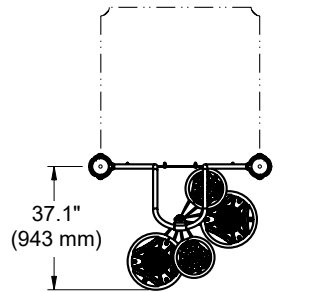
Elevation View
36 in. (914 mm) Deck

Installation Instructions



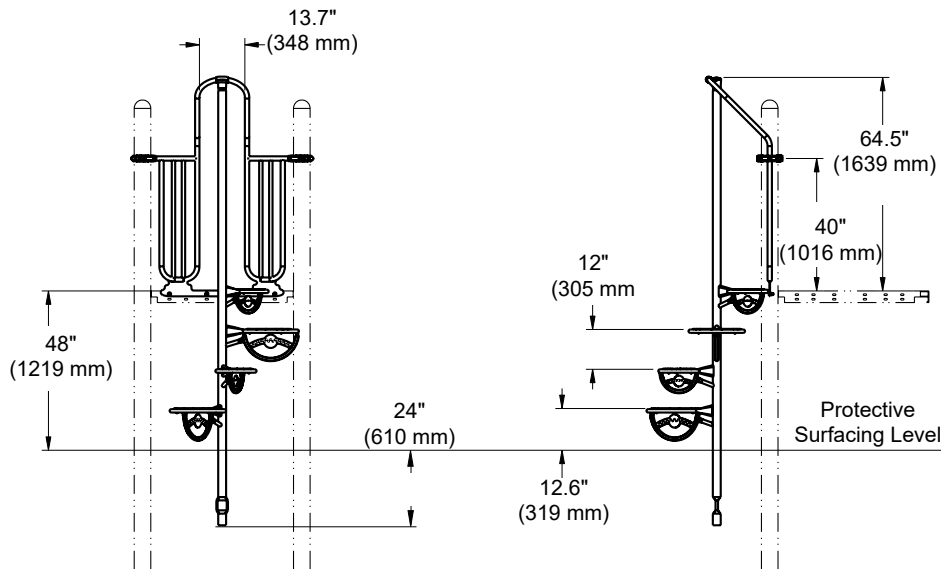
Critical Fall Height
EN: 1220 mm

Top View

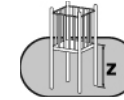


Note:

For the 42" (1067 mm) deck the dimension from the protective surfacing level to the bottom of the climber is 30" (762 mm).

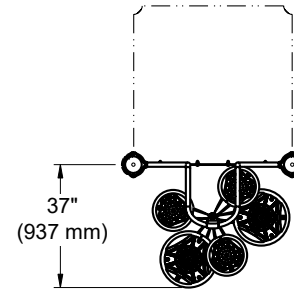


Elevation View
48 in. (1219 mm) Deck



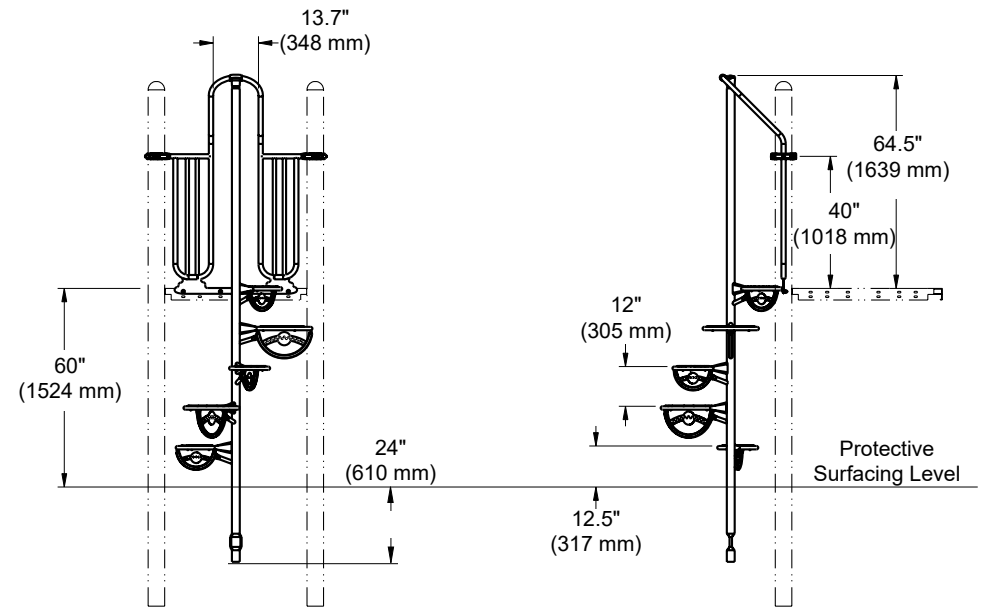
Critical Fall Height
EN: 1525 mm

Top View



Note:

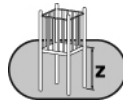
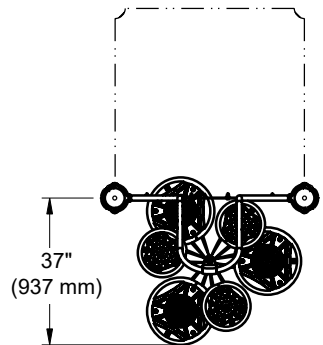
For the 54" (1372 mm) deck the dimension from the protective surfacing level to the bottom of the climber is 30" (762 mm).



Elevation View
60 in. (1524 mm) Deck

Installation Instructions

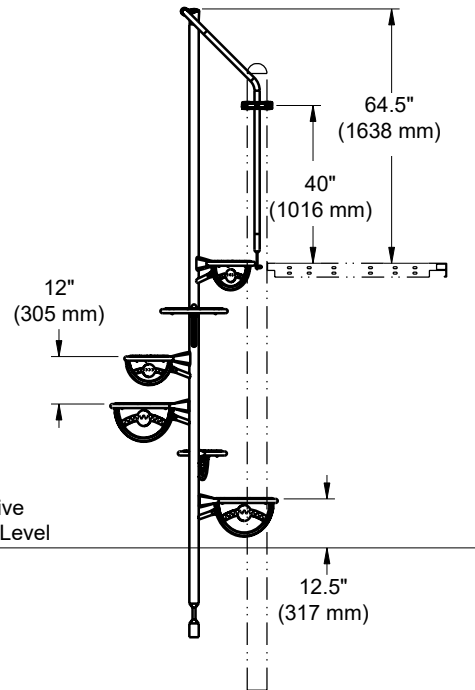
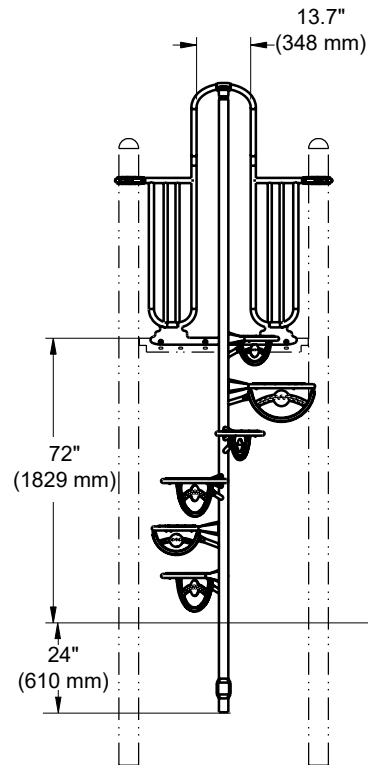
Top View



Critical Fall Height
EN: 1830 mm

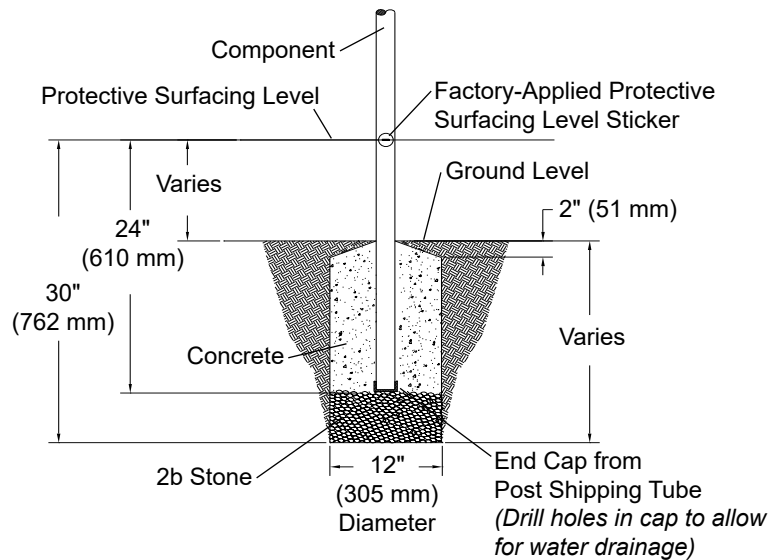
Note:

For the 66" (1676 mm) deck the dimension from the protective surfacing level to the bottom of the climber is 30" (762 mm).



Elevation View
72 in. (1829 mm) Deck

Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

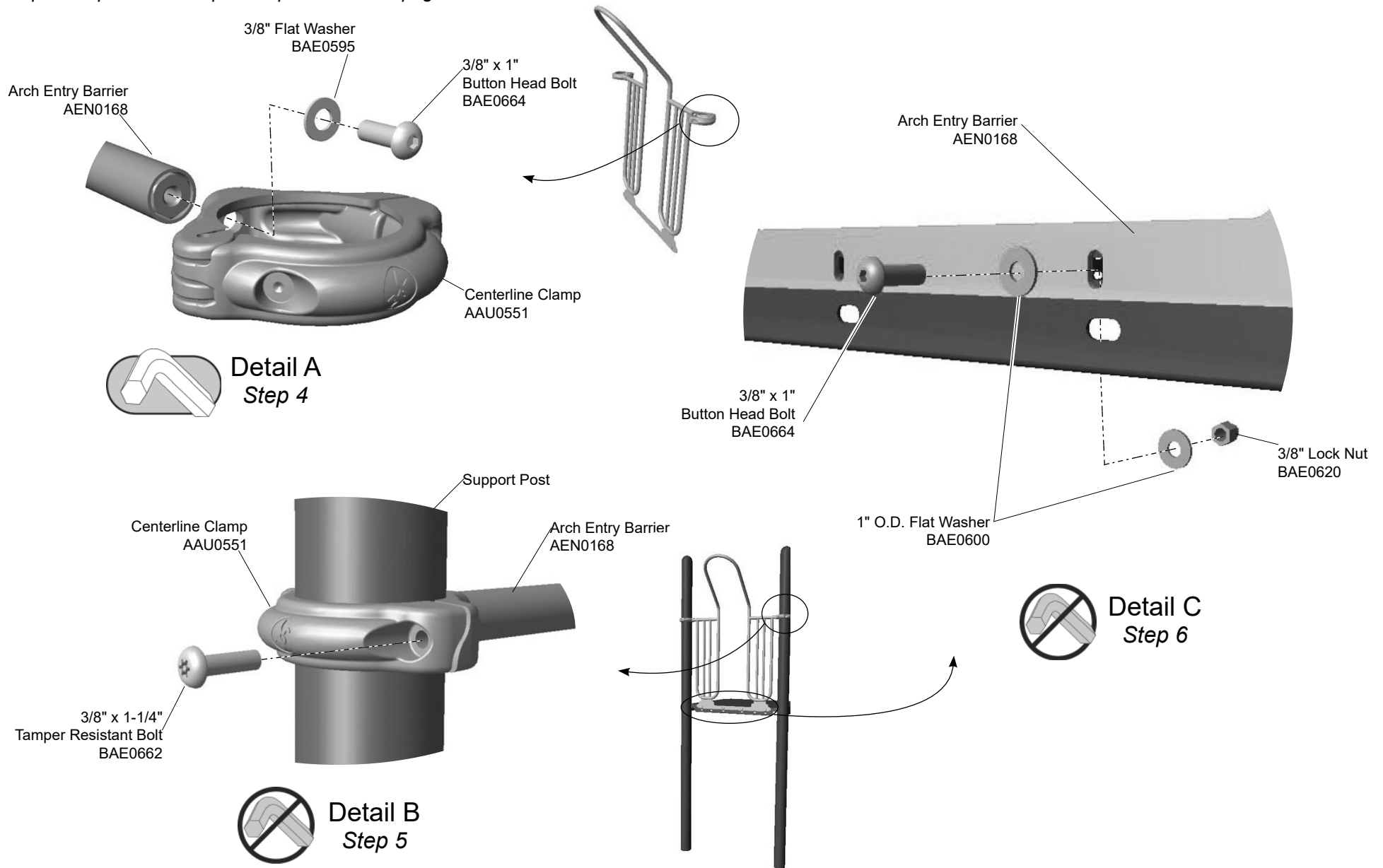
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

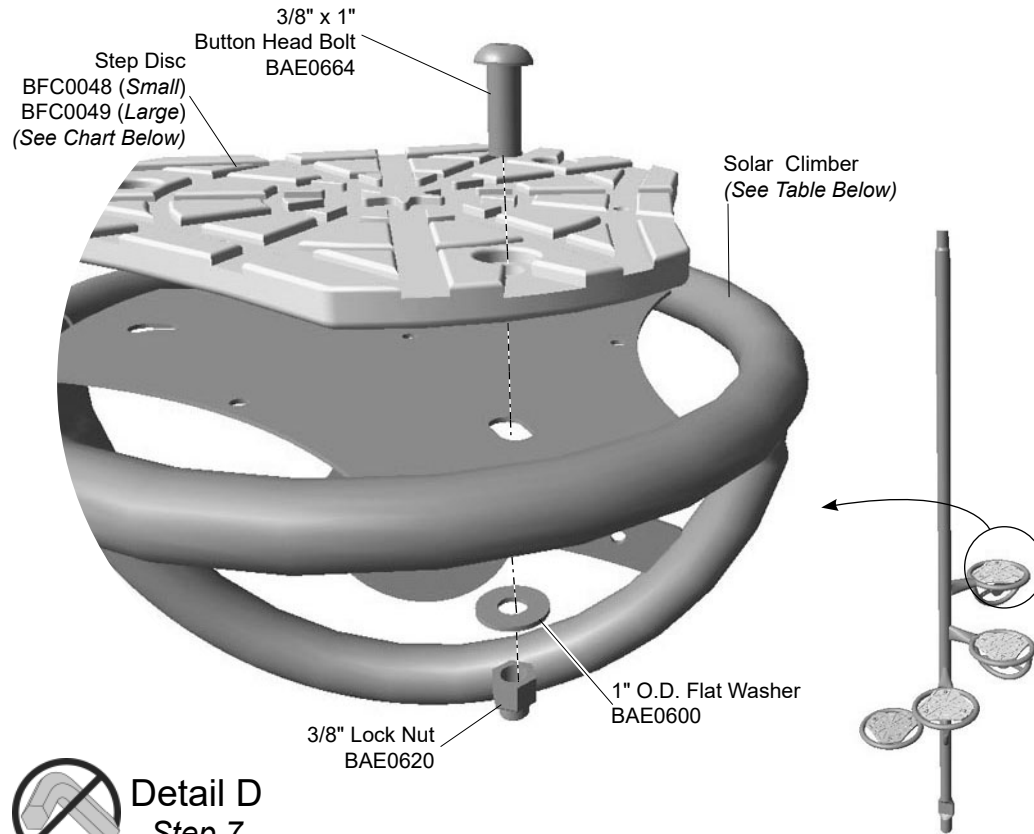
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

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

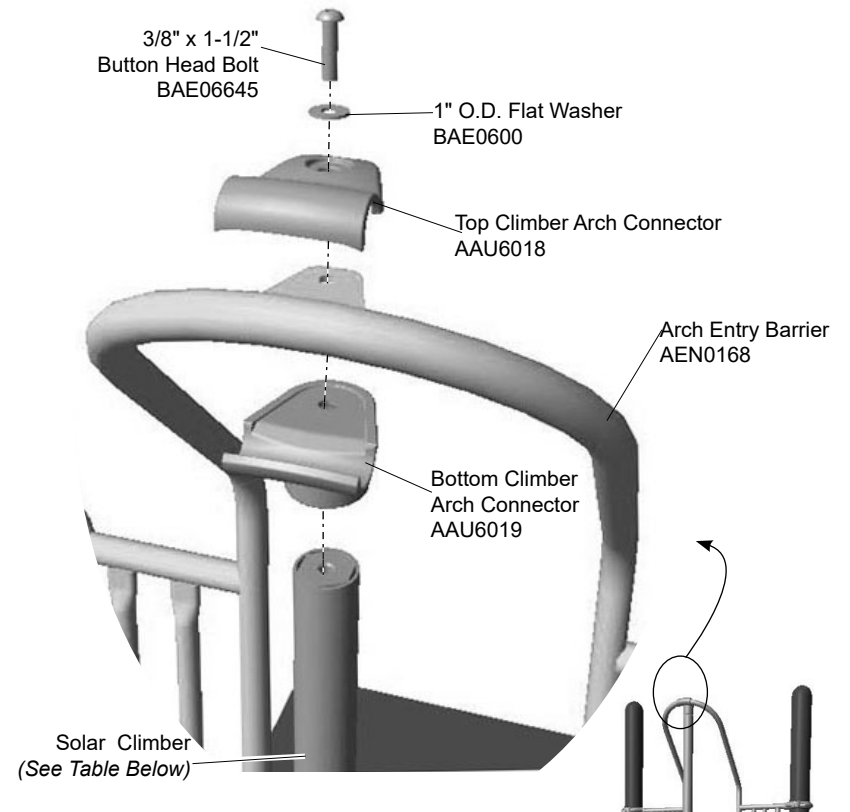


Installation Instructions



Detail D
Step 7

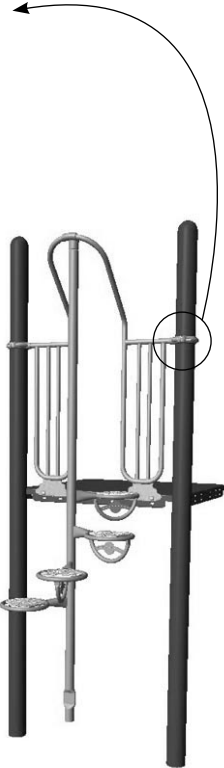
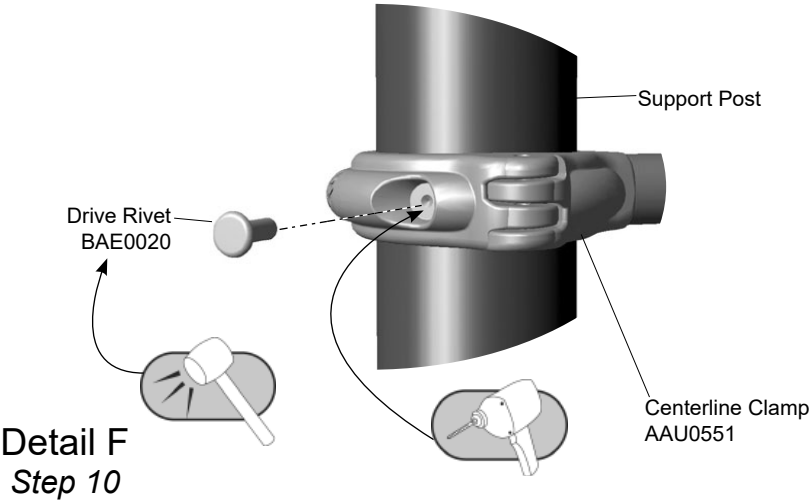
Climber Deck Height	Climber Part Number	Number Of Sm. Step Discs	Number Of Lg. Step Discs
24 in. (610 mm)	ACL0125	3	0
36 in. or 30 in. (914 mm or 762 mm)	ACL0126	4	0
48 in. or 42 in. (1219 mm or 1067 mm)	ACL0131	2	2
60 in. or 54 in. (1524 mm or 1372 mm)	ACL0133	3	2
72 in. or 66 in. (1829 mm or 1676 mm)	ACL0135	3	3



Detail E
Step 8



Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

__Step 2: Separate and identify all components and hardware.

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

Attach clamps to arch entry barrier.

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

Attach the clamps to support posts.

__Step 5: Attach the clamps to support posts. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the barrier into position against deck. Close the clamps around the posts. Leave the clamp connection loose for deck connection adjustments. Attach as shown.

Attach the arch entry barrier to deck.

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

Attach the steps to the climber.

__Step 7: Attach the step discs to the climber. See **Detail D**. Select the climber weldment, the appropriate *number* and *size* of step discs (*see table on page 6*), and the appropriate hardware. There are **(3) three** connections per step disc. Attach as shown.

Attach the climber to the barrier.

__Step 8: Attach the climber to the barrier. See **Detail E**. Select the climber, top and bottom climber connectors, and the appropriate hardware. There is (1) one connection. Slide the climber into the bottom of the lower connector. Place the climber into the excavated footing. Sandwich the barrier tab and rail with the climber connectors. Attach as shown.

Important Note: See **Elevation View**. When tightening the climber bolt, ensure that the body of the climber is parallel to the support posts. **Rotate the climber so that the edge of the top step frame is no more than 1.5" (38 mm) from the side of the deck.**

Final Details.

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

Torque Specifications:

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

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

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



Bill of Materials

ZZPM7657 - 36 in. (914 mm) & 30 in. (762 mm) SOLAR CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0126	CLIMBER - 36" SOLAR	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	21
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	18
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BFC0048	SHEET - 10" O.D. w/ 3 HOLES AND 3 CUTS	4

ZZPM7658 - 48 in. (1219 mm) & 42 in. (1067 mm) SOLAR CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0131	CLIMBER - 48" SOLAR (CH/PM)	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	21
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	18
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BFC0048	SHEET - 10" O.D. w/ 3 HOLES AND 3 CUTS	2
BFC0049	SHEET - 14-1/2" O.D. w/ 3 HOLES AND 3 CUTS	2

ZZPM7659 - 60 in. (1524 mm) & 54 in. (1372 mm) SOLAR CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0133	CLIMBER - 60" SOLAR	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	19
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	21
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BFC0048	SHEET - 10" O.D. w/ 3 HOLES AND 3 CUTS	3
BFC0049	SHEET - 14-1/2" O.D. w/ 3 HOLES AND 3 CUTS	2

ZZPM7666 - 72 in. (1829 mm) & 66 in. (1676 mm) SOLAR CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0135	CLIMBER - 72" SOLAR	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	27
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BFC0048	SHEET - 10" O.D. w/ 3 HOLES AND 3 CUTS	3
BFC0049	SHEET - 14-1/2" O.D. w/ 3 HOLES AND 3 CUTS	3



Assembly View (representative model)

Model	Deck Height
ZZPM8100	36" (915 mm)
ZZPM8110	48" (1220 mm)
ZZPM8120	60" (1525 mm)
ZZPM8130	72" (1830 mm)


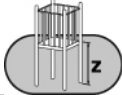

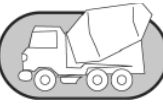
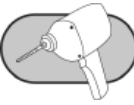


Installation Instructions

Playmakers® Models PM8100-PM8130
Beanstalk Climber
36 in. (914 mm) to 72 in. (1829 mm) decks

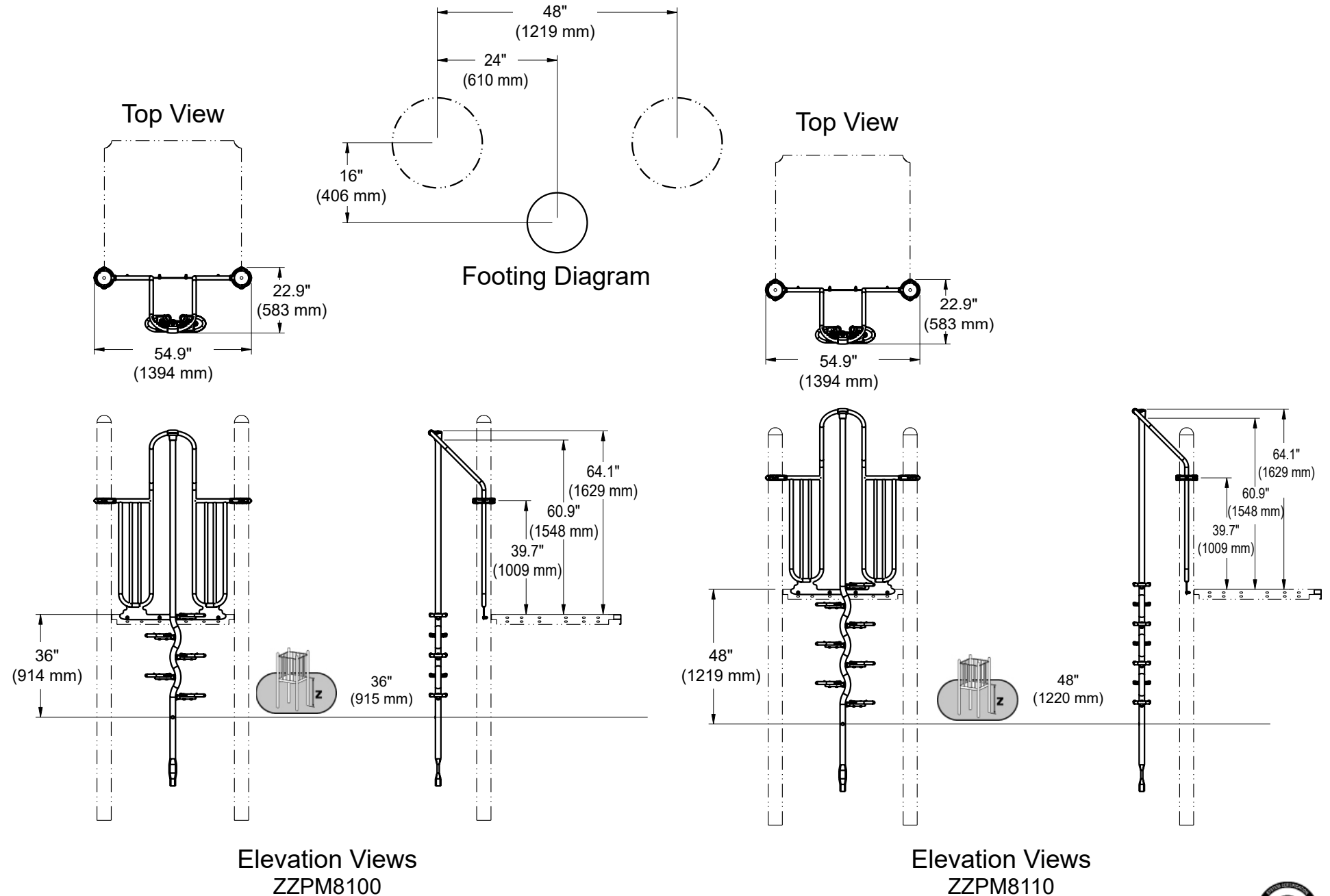
Installation Preparation

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

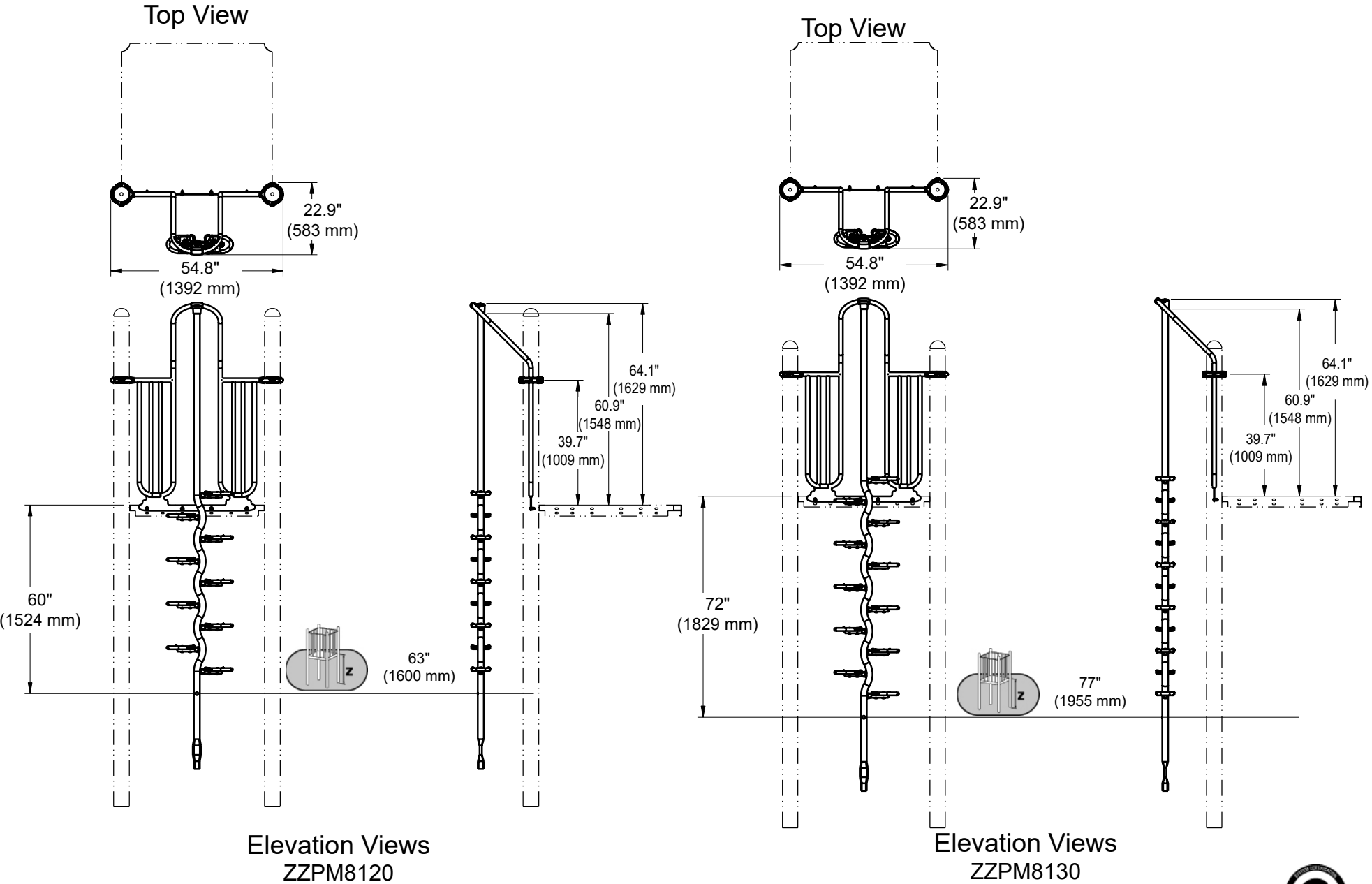
ICON KEY

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

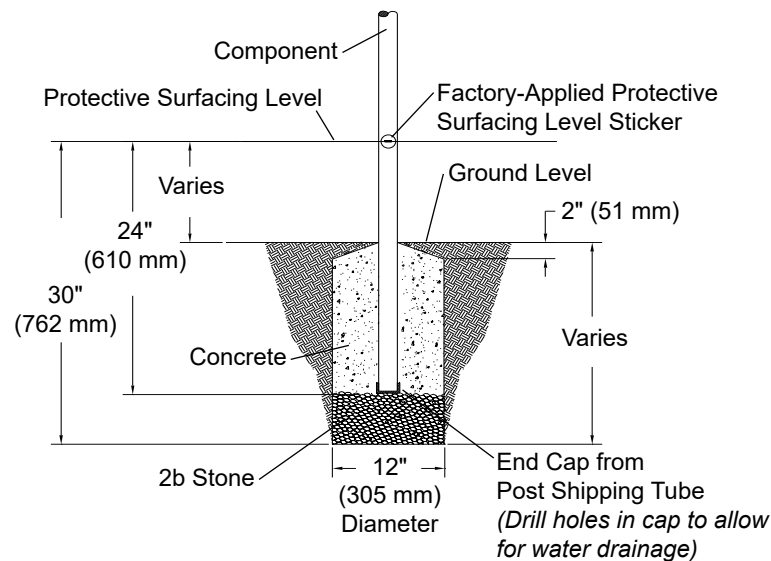
Installation Instructions



Installation Instructions



Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

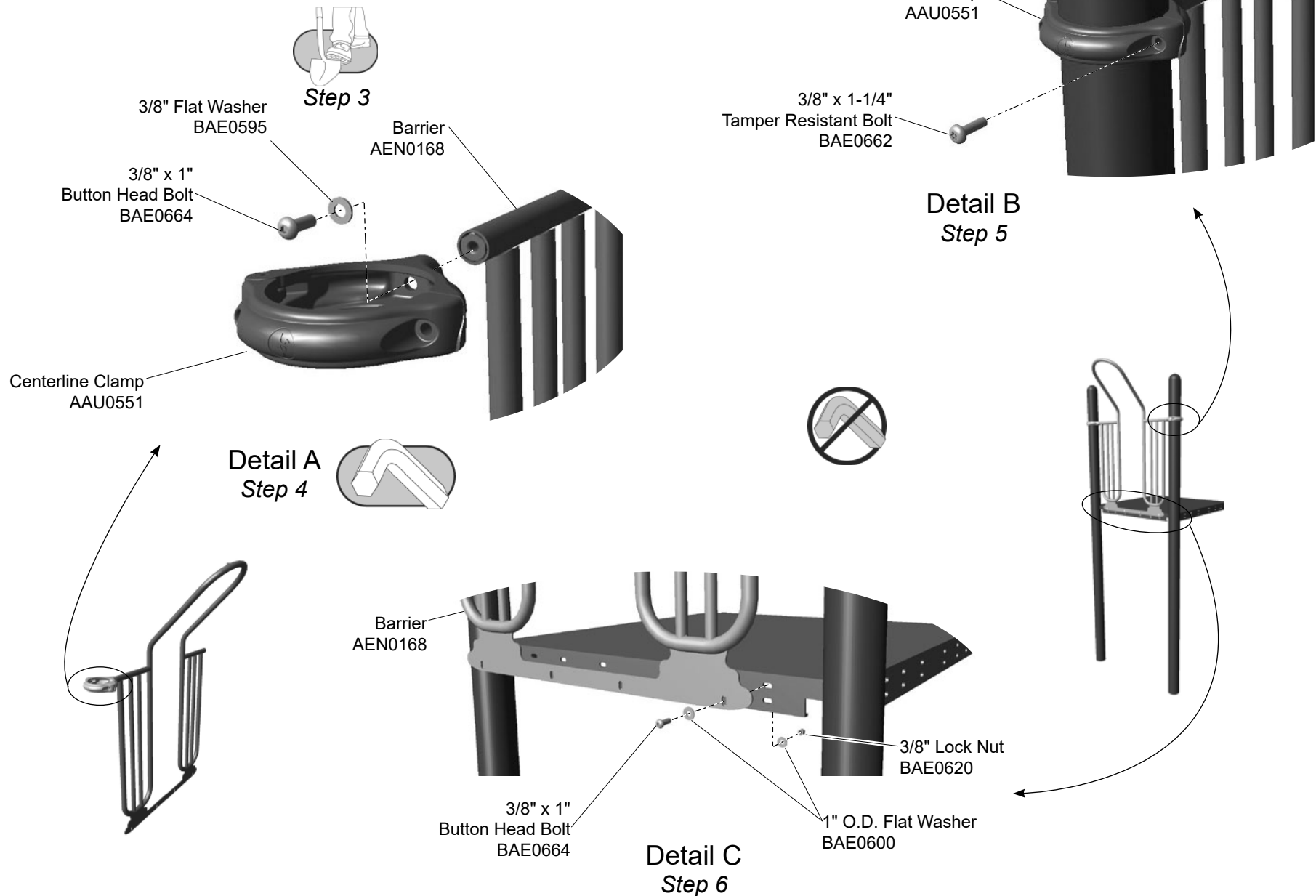
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

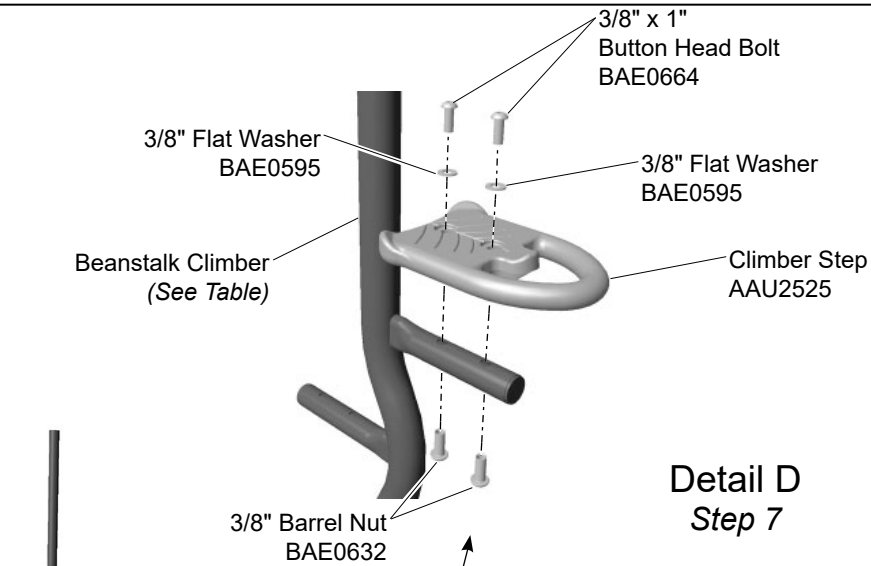
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

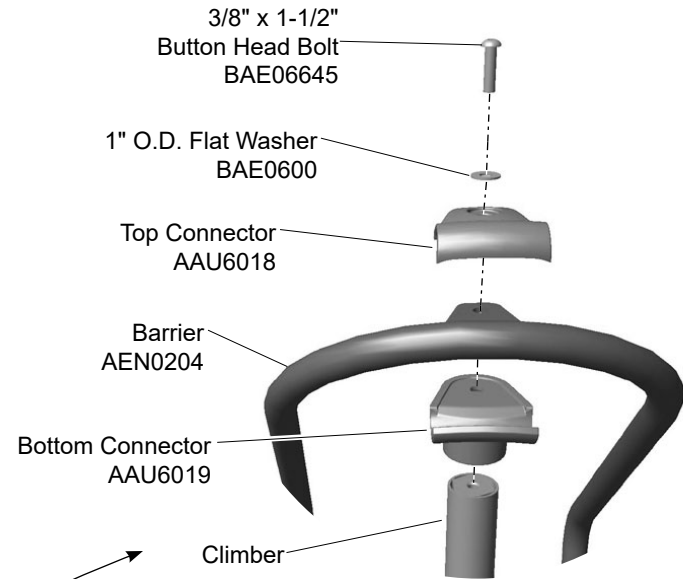
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Installation Instructions



Detail D
Step 7

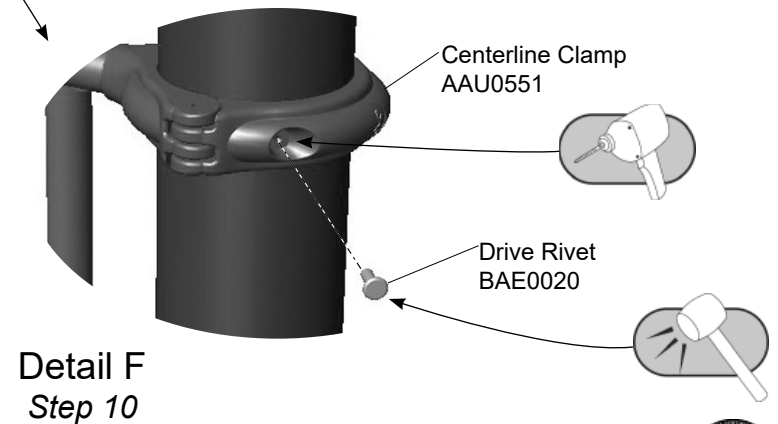


Detail E
Step 8



Step 9

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



Detail F
Step 10

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet and on page 4 of this installation document.

Attach the centerline clamps to the arch entry barrier.

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

Attach the centerline clamps to the support posts.

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

Attach the barrier to the deck.

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

Attach the step/handle to the climber.

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

Attach the climber to the barrier.

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

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

Final Details.

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

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

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

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



ZZPM8100 - 36 in. (914 mm) BEANSTALK CLIMBER

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

ZZPM8110 - 48 in. (1219 mm) BEANSTALK CLIMBER

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

ZZPM8120 - 60 in. (1524 mm) BEANSTALK CLIMBER

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

ZZPM8130 - 72 in. (1829mm) BEANSTALK CLIMBER

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



Assembly View (representative model)

Model	Deck Height
ZZPM8140	36" (915 mm)
ZZPM8150	48" (1220 mm)
ZZPM8160	60" (1525 mm)
ZZPM8170	72" (1830 mm)

Installation Instructions

Playmakers® Models PM8140-PM8170




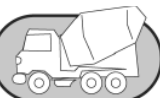
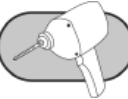


Spiral Climber

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

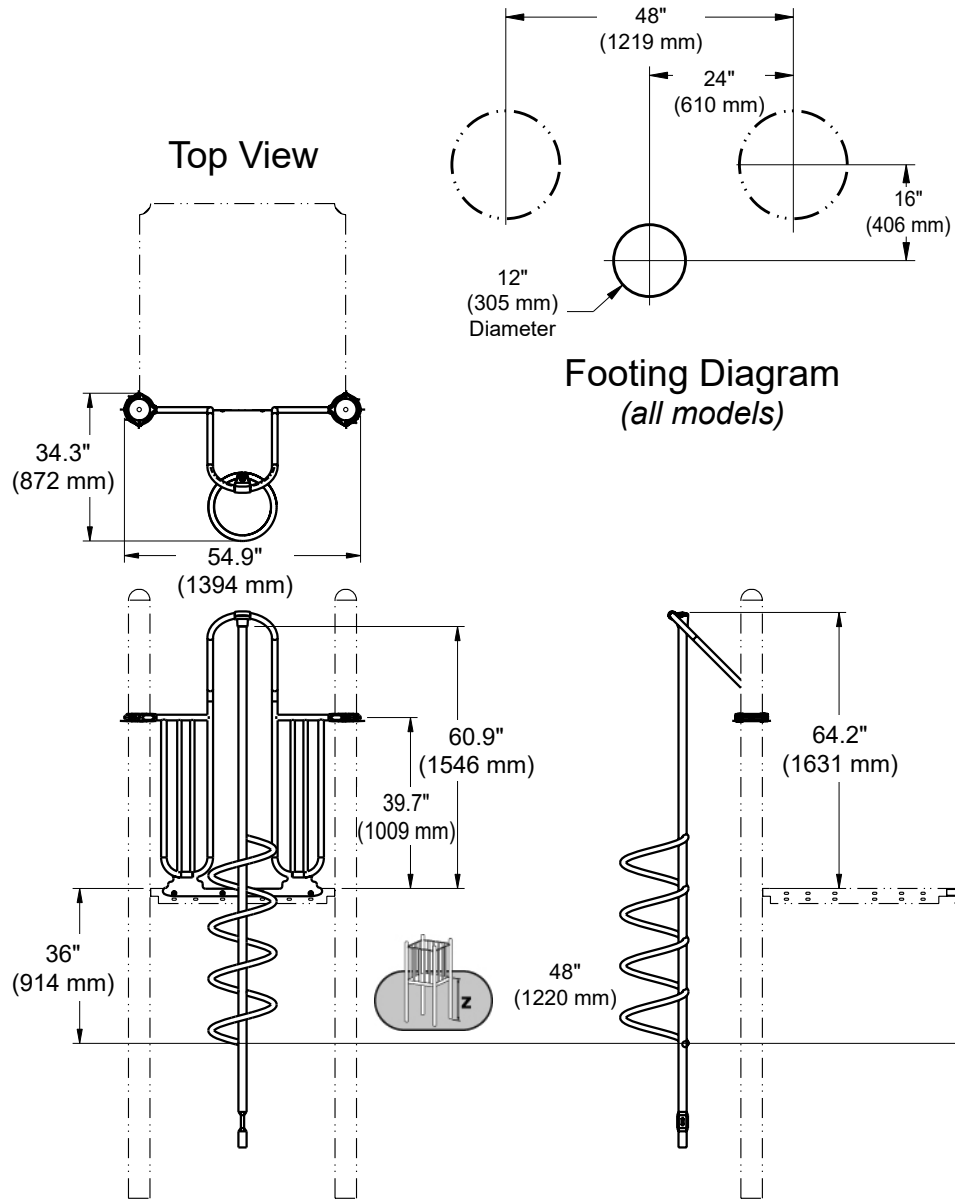
Installation Preparation

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

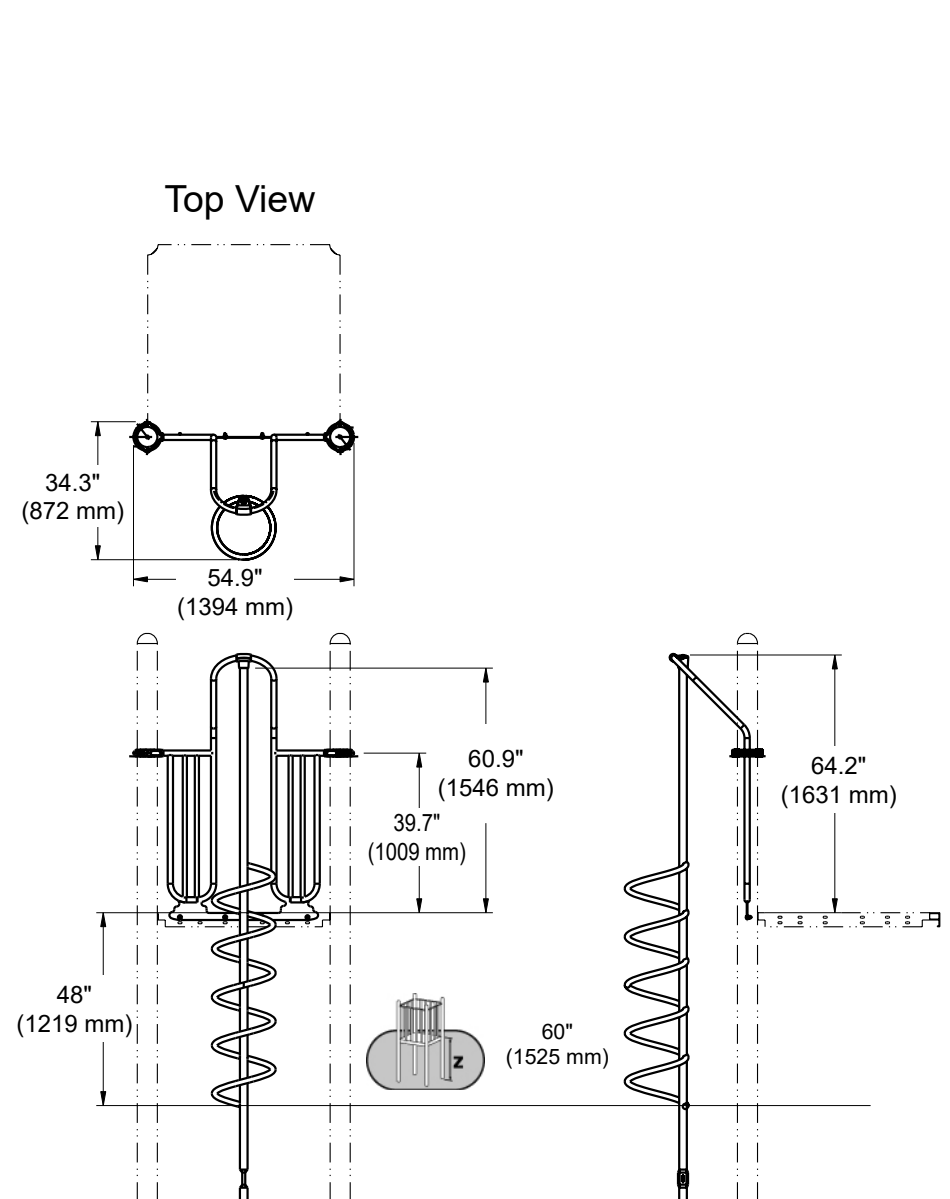
ICON KEY

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

Installation Instructions

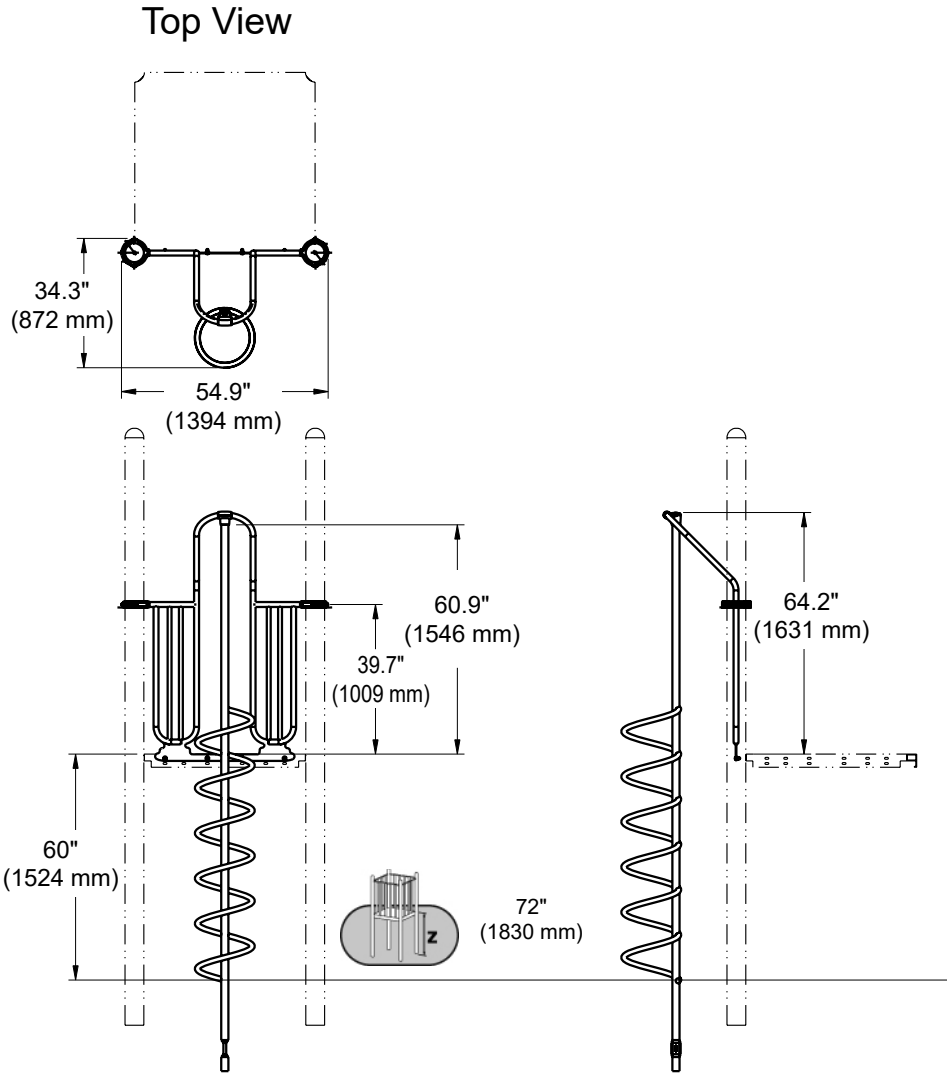


Elevation Views
ZZPM8140

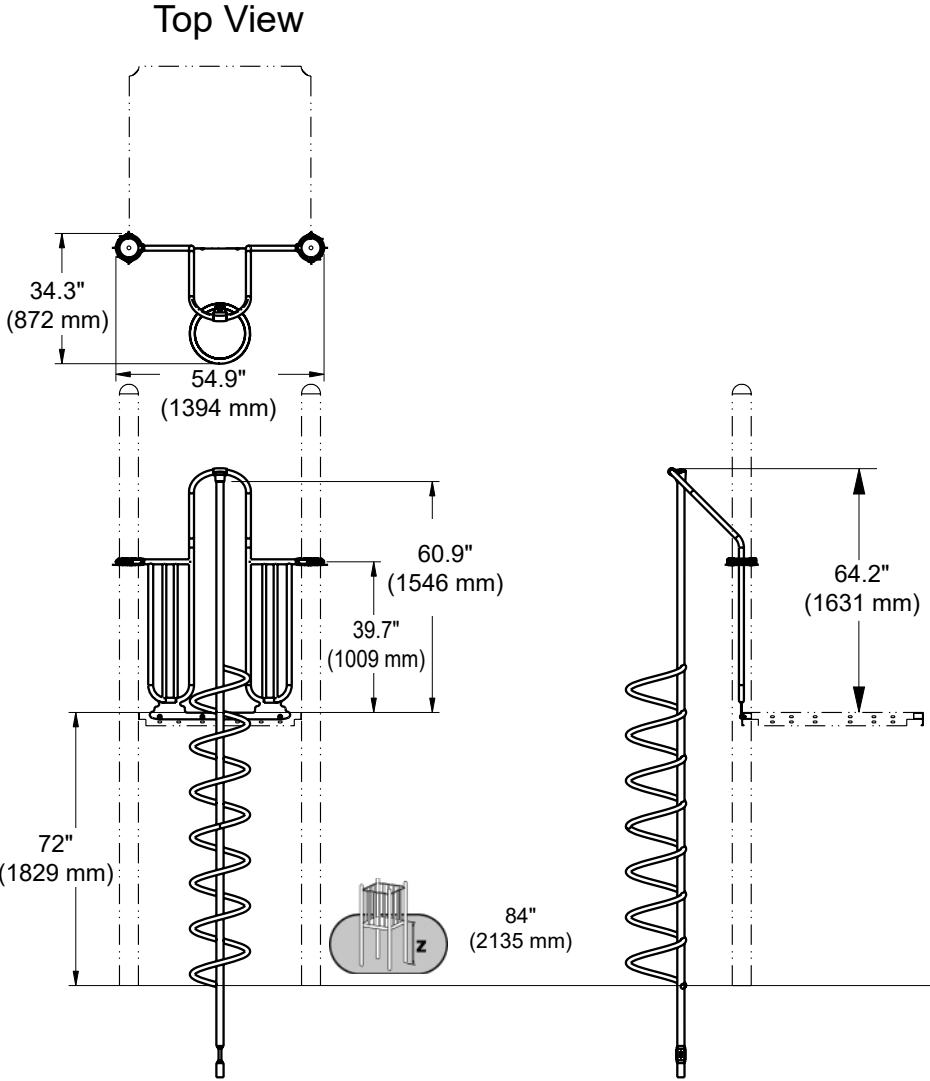


Elevation Views
ZZPM8150

Installation Instructions



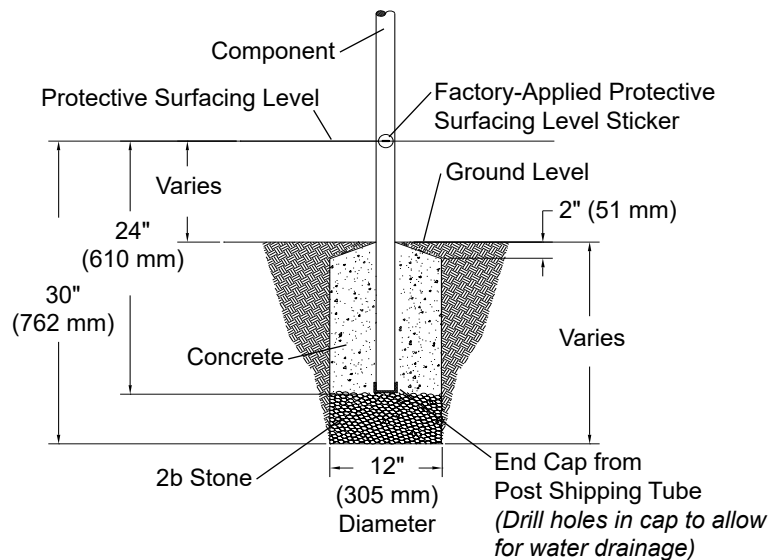
Elevation Views
ZZPM8160



Elevation Views
ZZPM8170



Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

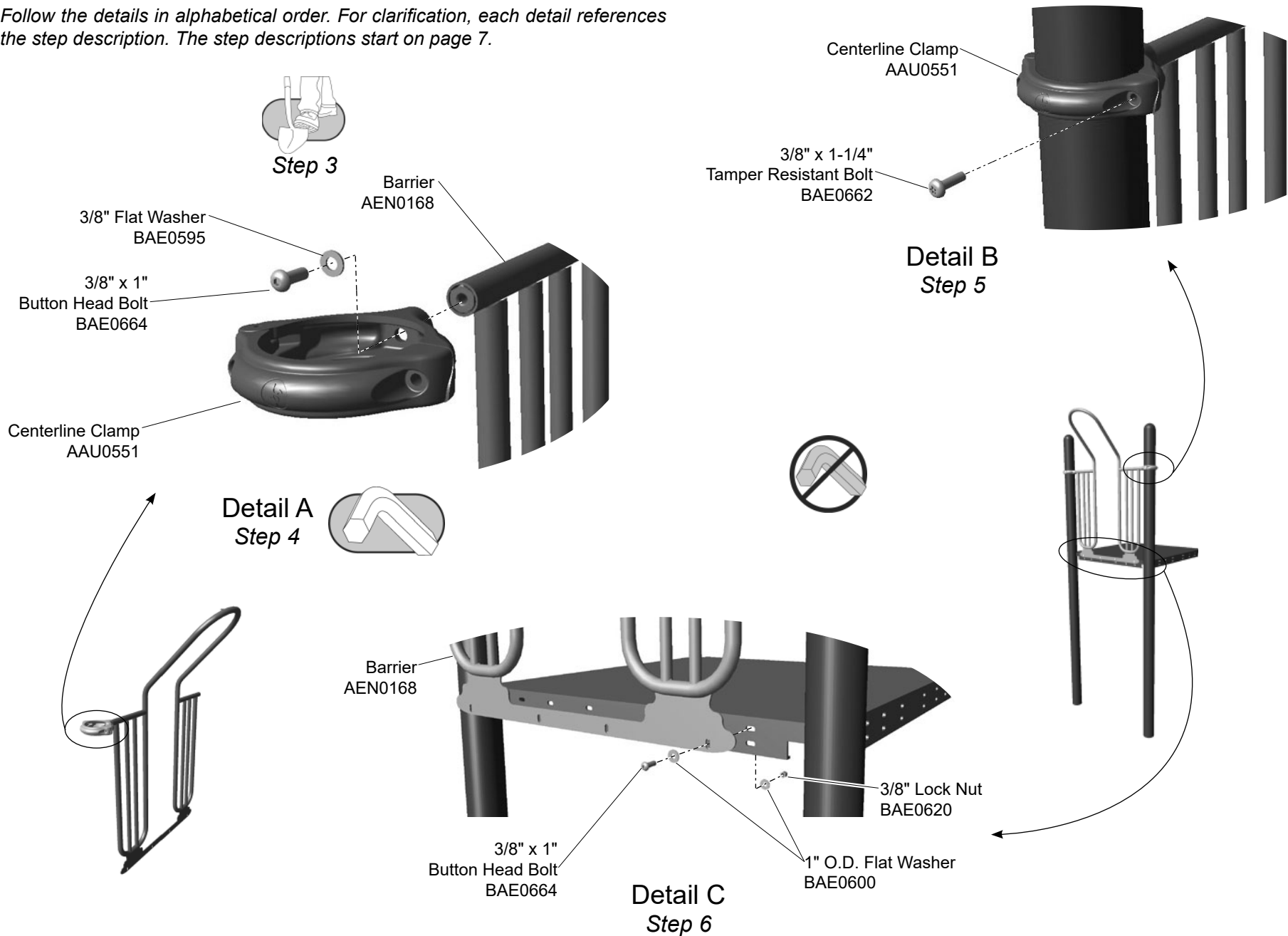
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

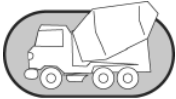
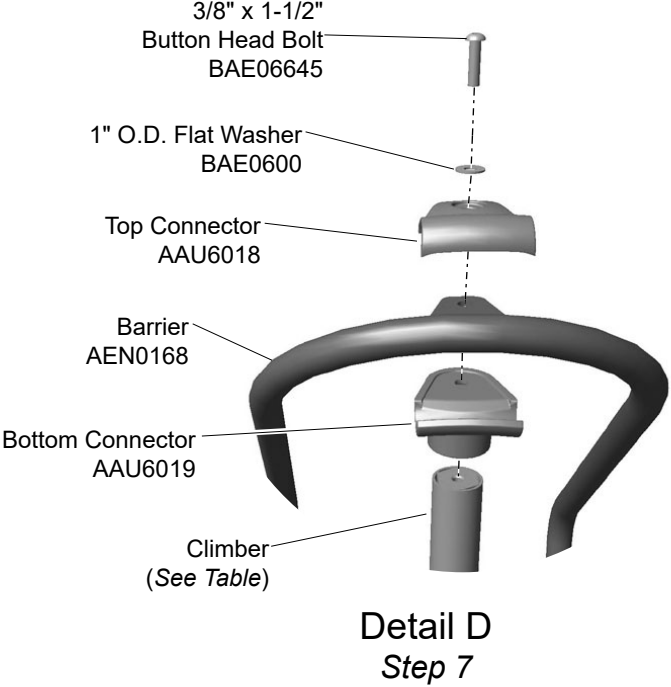
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

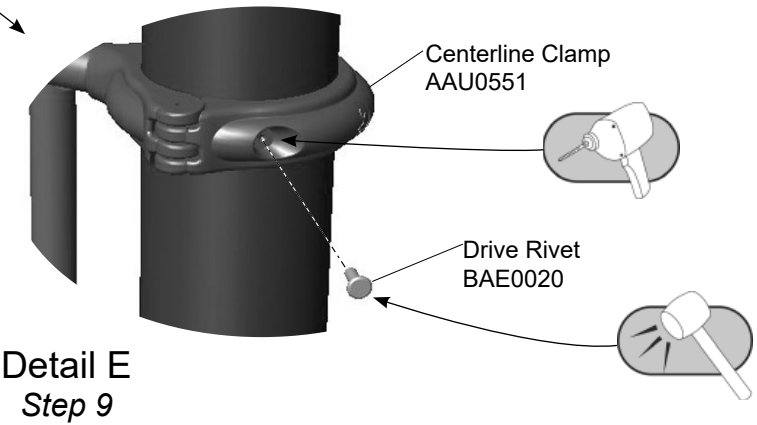
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Installation Instructions



Step 8



Climber Deck Height	Climber Part Number
36 in. (914 mm)	ACL0031
48 in. (1219 mm)	ACL0033
60 in. (1524 mm)	ACL0035
72 in. (1829 mm)	ACL0037



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet and on page 4 of this installation document.

Attach the clamps to the arch entry barrier.

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

Attach the clamps to the support posts.

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

Attach the barrier to the deck.

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

Attach the climber to the barrier.

Step 7: Attach the climber to the barrier. See **Detail D**. Select the spiral climber, the top and bottom climber connectors, and the appropriate hardware. Slide the climber into the bottom of the lower connector. Place the climber into the excavated footing. Sandwich the barrier tab and rail with the top and bottom climber connectors and attach as shown.

Important Note: When tightening the climber bolt, insure that the climber is parallel to the posts as shown in **Elevation Views**. Rotate the spiral body of the climber to face away from the deck.

Final Details.

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

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

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

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



ZZPM8140 - 36 in. (914 mm) SPIRAL CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0031	CLIMBER - 36" SPIRAL w/ LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8150 - 48 in. (1219 mm) SPIRAL CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0033	CLIMBER - 48" SPIRAL w/ LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8160 - 60 in. (1524 mm) SPIRAL CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0035	CLIMBER - 60" SPIRAL w/ LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8170 - 72 in. (1829mm) SPIRAL CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0037	CLIMBER - 72" SPIRAL w/ LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



Assembly View (representative models)

	PM8289	PM8290	PM8300	PM8310
Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)

Installation Instructions

Playworld Systems

Models PM8289, PM8290, PM8300, PM8310


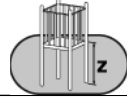

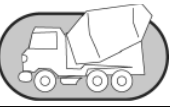
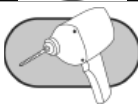

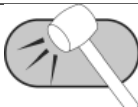
Ribbon Climber

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

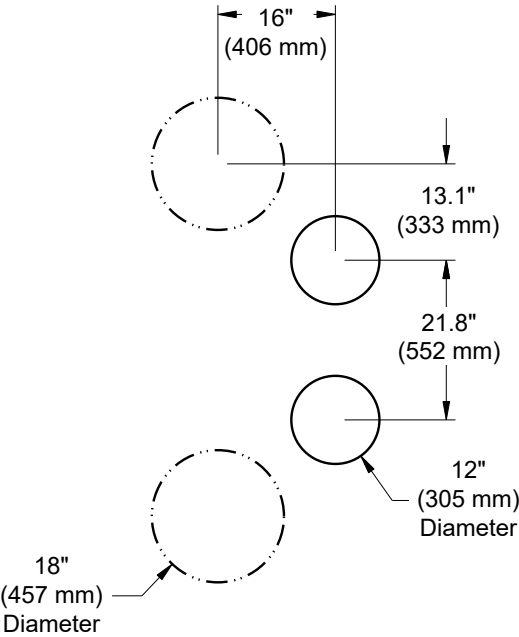
Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 1.5 hours
Concrete Required: 0.06 cubic yard (0,5 cubic meters)
Use Zone: Refer to Use Zone on Master Drawing
User Group Age (years): 36"-60": ASTM/CSA: 2-12, EN: 2-14
..... 60"-72": ASTM/CSA: 5-12, EN: 6-14

ICON KEY

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

Installation Instructions

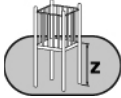
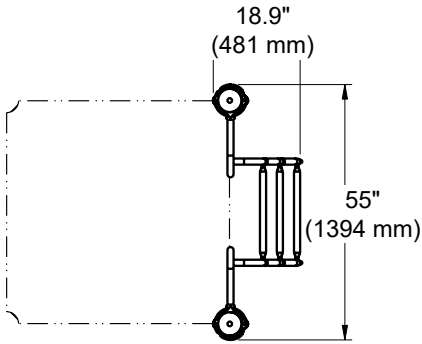


Footing Diagram

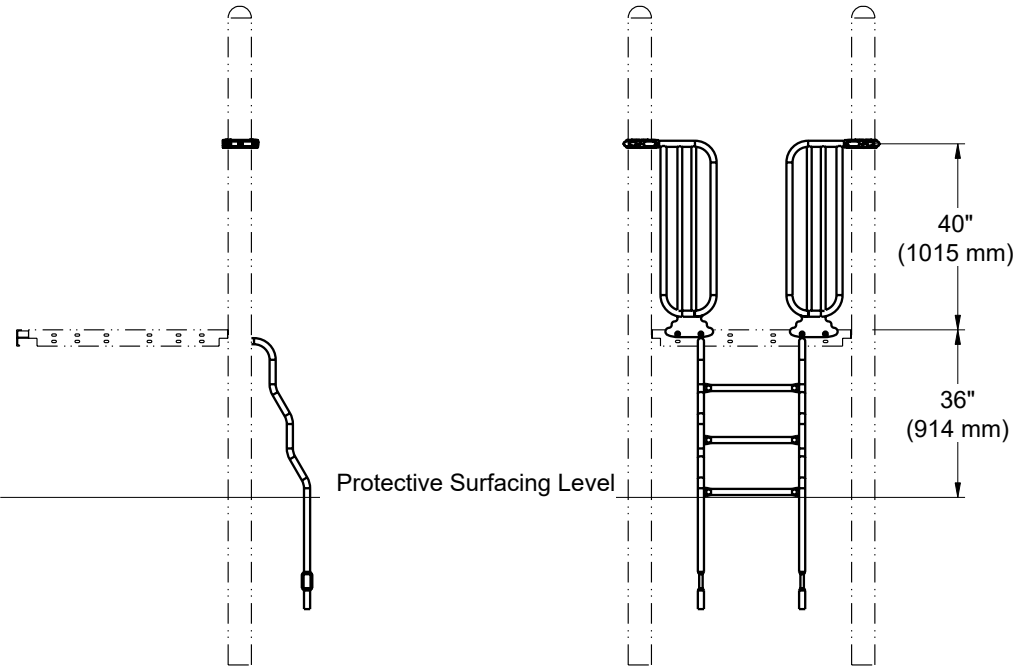


Step 4

Top View



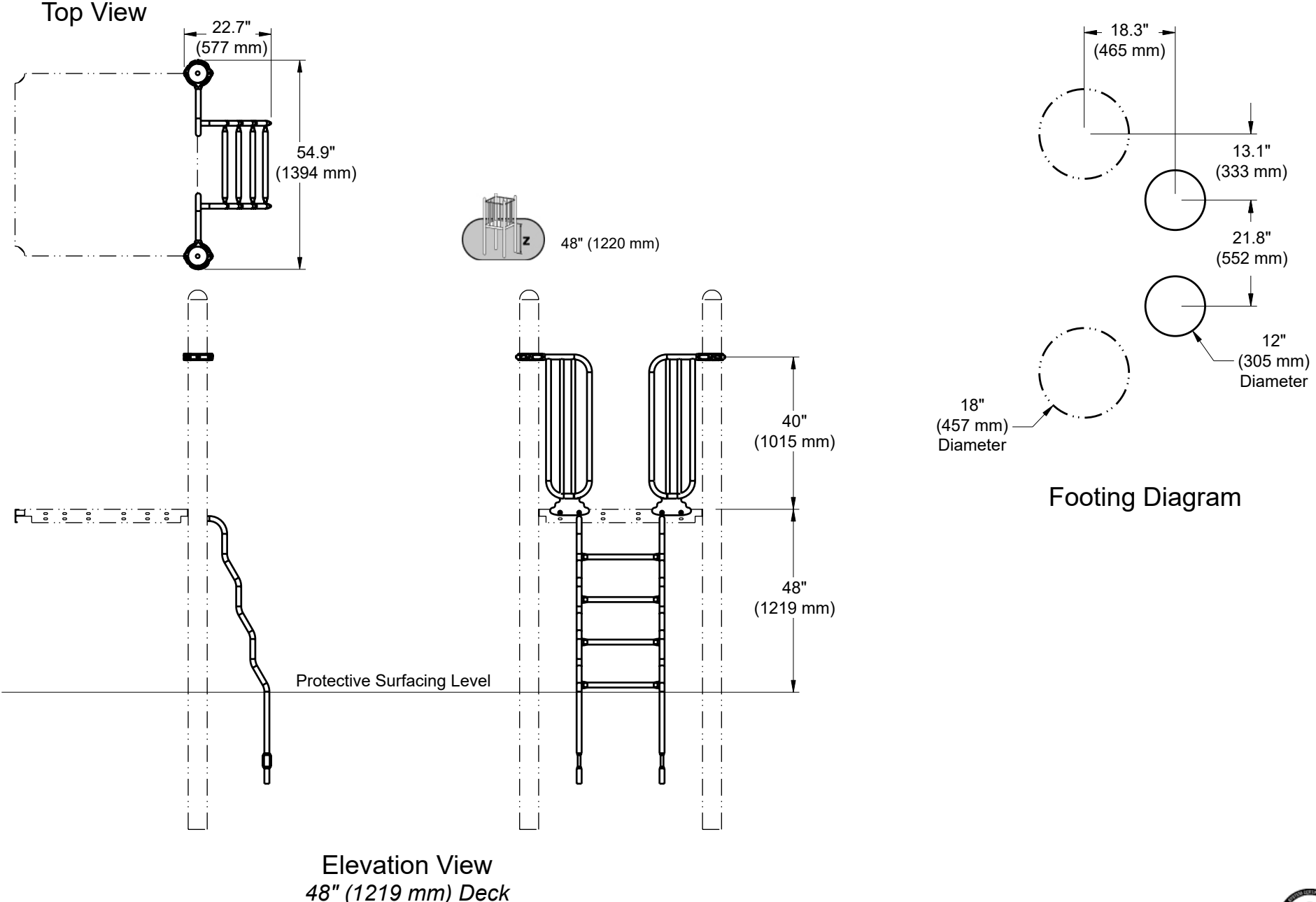
36" (914 mm)



Elevation View
36" (914 mm) Deck

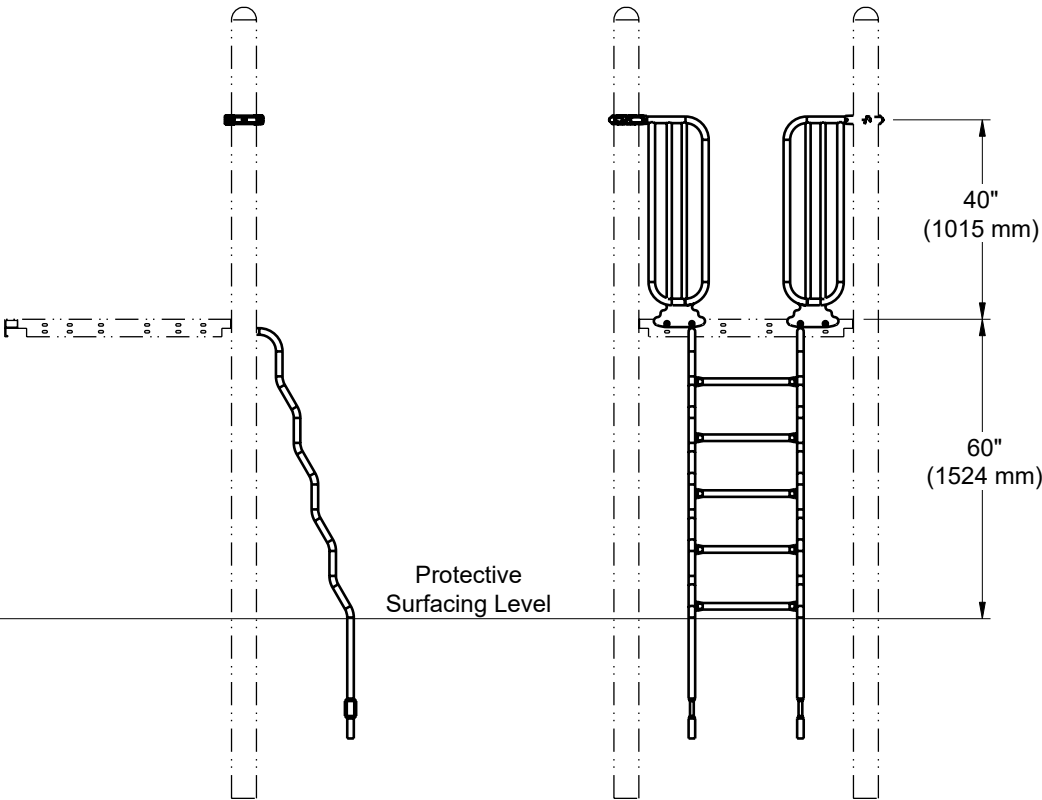
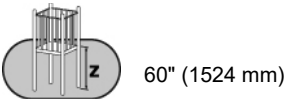
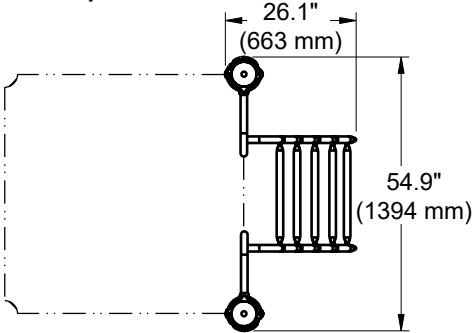


Installation Instructions

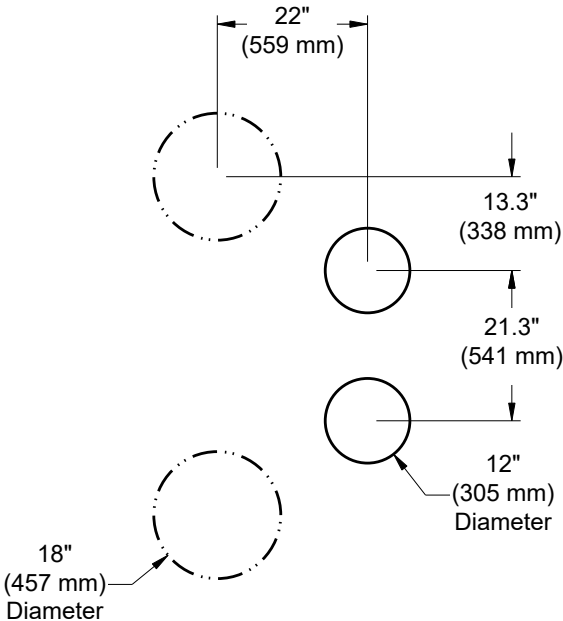


Installation Instructions

Top View



Elevation View
60" (1524 mm) Deck

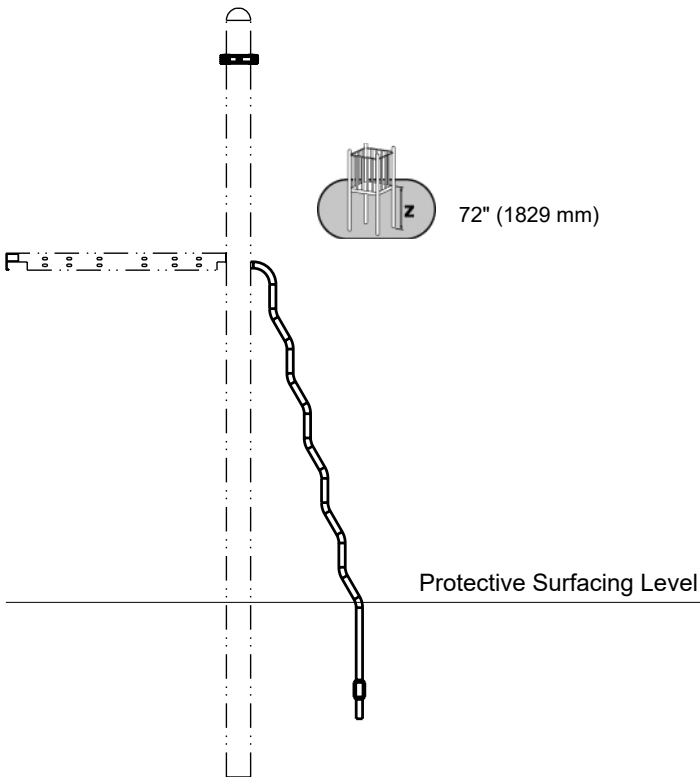
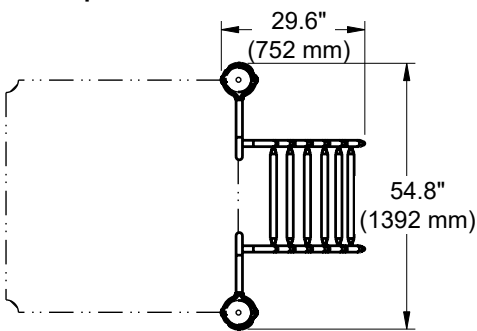


Footing Diagram

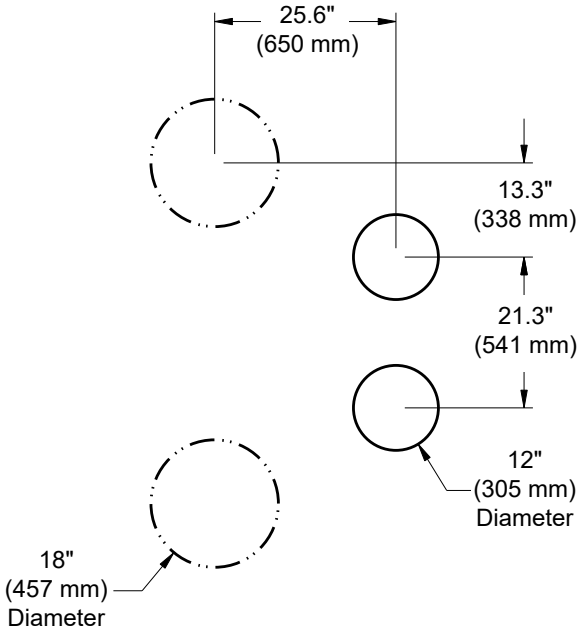
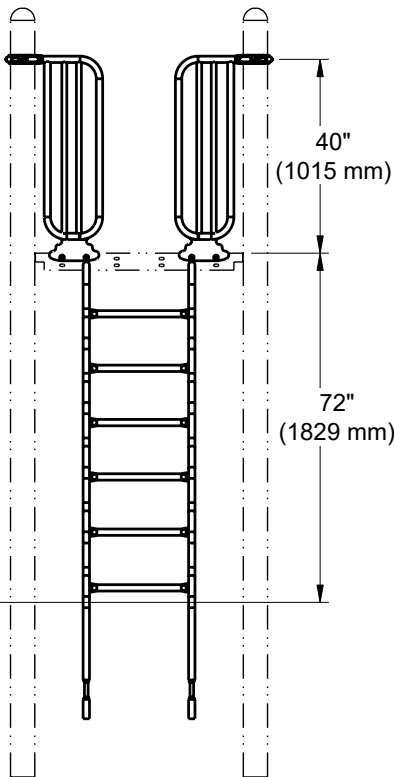


Installation Instructions

Top View



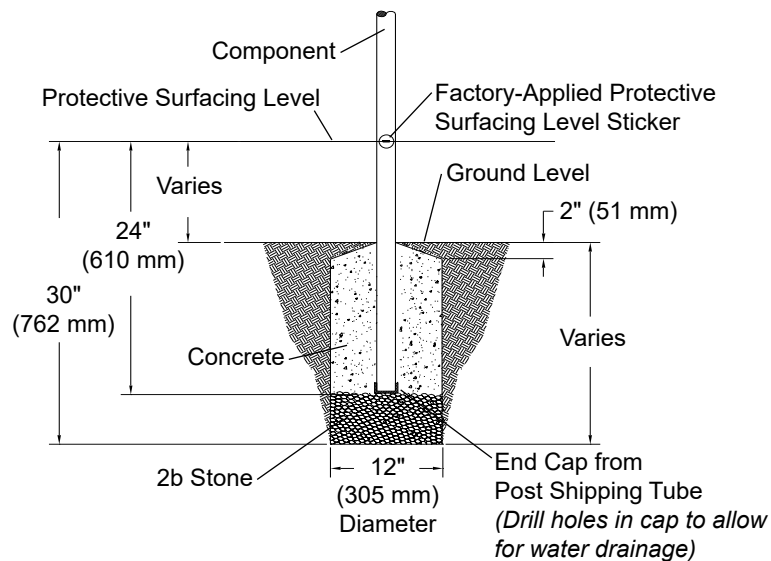
Elevation View
72" (1829 mm) Deck



Footing Diagram



Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

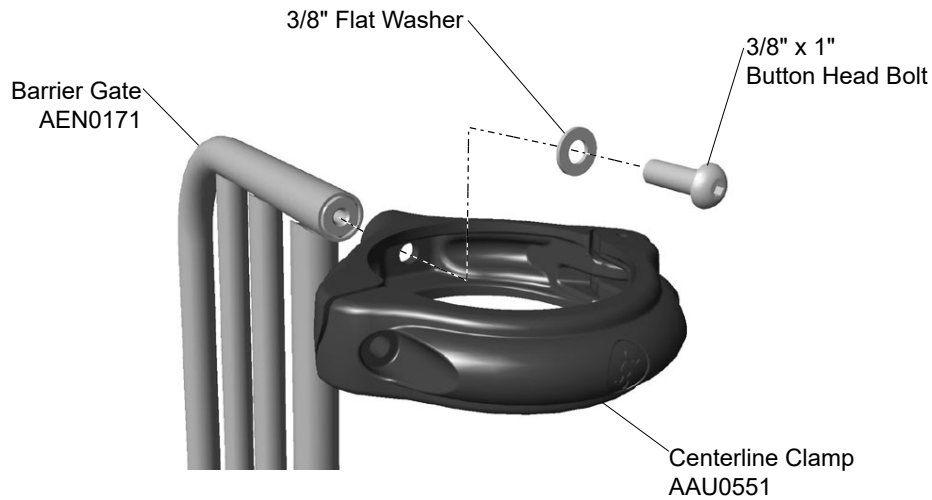
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

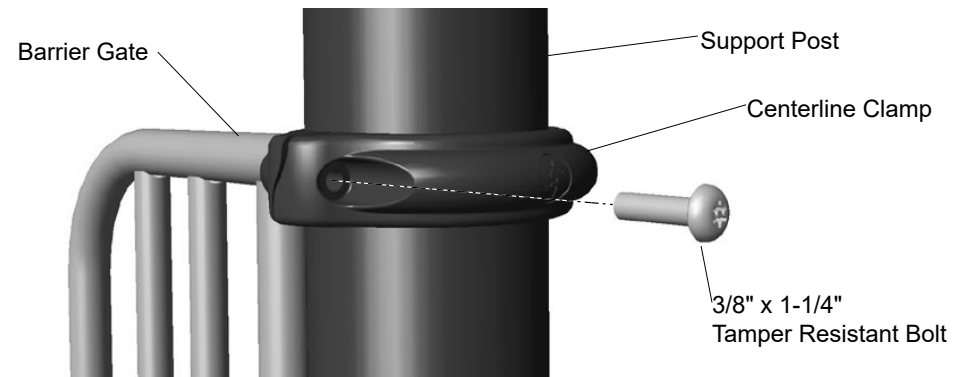
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

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

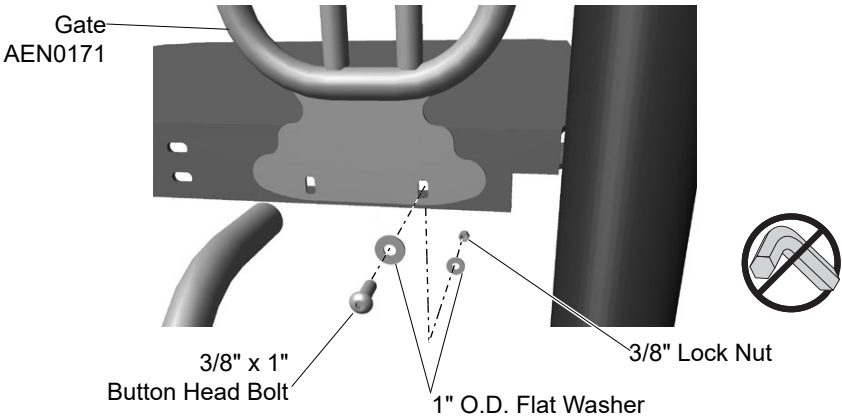


Detail A
Step 5

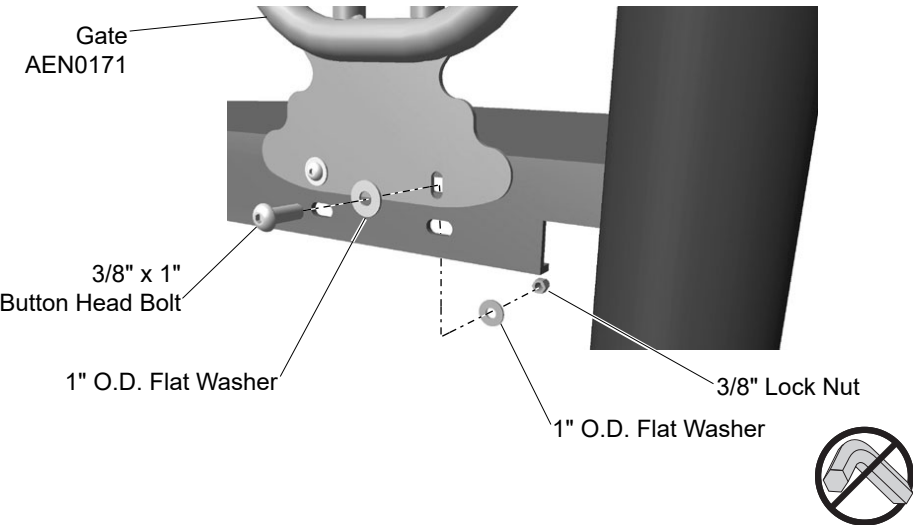


Detail B
Step 6

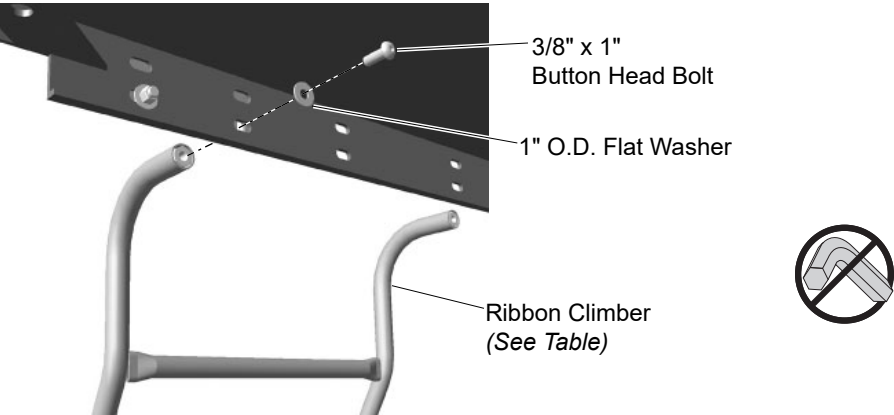
Installation Instructions



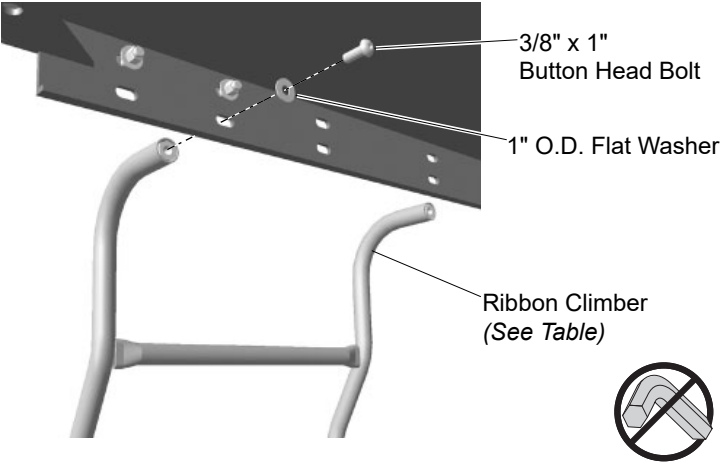
Gates in lower position



Gates in upper position



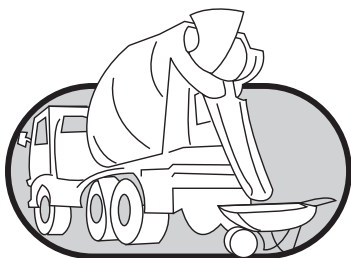
Detail C
Step 7



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



Installation Instructions



Step 8
Pour Concrete

INSTALLATION

A Note Before You Begin:

Do not over tighten bolts during assembly, only snug tighten unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

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

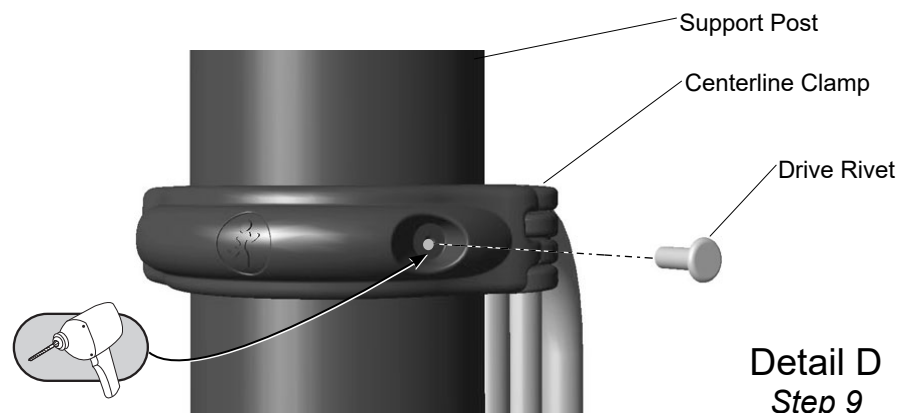
__Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

__Step 3: Determine placement and orientation of the ribbon climber by referring to the composite master footing diagram and associated **Elevation View**.

__Step 4: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet and on page 6 of this installation document.

Attach the centerline clamps to the gates.

__Step 5: Attach the centerline clamps to the gates. See **Detail A**. Select both gates, and (2) two clamps, and the appropriate hardware. Secure the clamp to the gate as shown. Ensure that the clamps are turned in the same direction and fully tighten the connections.



Attach the clamps to the support posts.

__Step 6: Attach the clamps to the support posts. See **Detail B**. Select the appropriate hardware. Lift each gate into position against the deck and secure the clamp to the post. Snug tighten the connection only.

Attach the gates and the ribbon climber to the deck.

__Step 7: Attach the gates and the ribbon climber to the deck. See **Detail C**. Select the ribbon climber and the appropriate hardware. Determine the connection position of the gates and ribbon climber, and follow the appropriate detail. Both gates should be mounted at the same height. Leave connections loose.

Final Details.

__Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications indicated on **page 1**. Block and brace, and pour concrete. Allow 72 hours for concrete to completely cure.

__Step 9: Install a drive rivet in each clamp. See **Detail D**. Using a 1/4" drill bit, drill through a band and support post. Insert the drive rivet into drilled hole and drive the pin of the rivet until it is flush with the surface of the rivet head.

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

Bill of Materials

PM - 36 in. (914 mm) RIBBON LADDER (ZZPM8289)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0190	CLIMBER - 23.07" x 58.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 72 in. (1829 mm) RIBBON LADDER (ZZPM8310)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0188	CLIMBER - 23.07" x 94.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

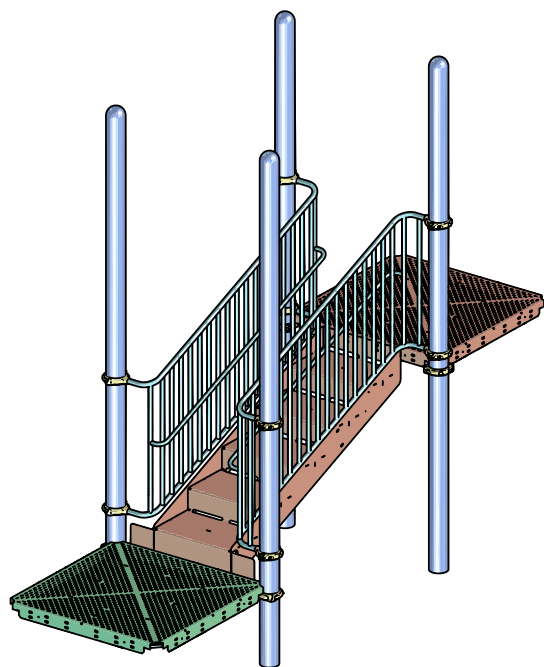
PM - 48 in. (1219 mm) RIBBON LADDER (ZZPM8290)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0184	CLIMBER - 23.07" x 70.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 60 in. (1524 mm) RIBBON LADDER (ZZPM8300)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0186	CLIMBER - 23.07" x 82.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8





Assembly View (representative model)

Installation Instructions


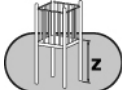

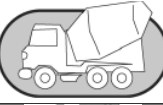


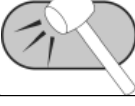
Playmakers®

Models PM9168, PM9170 and PM9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and
36" (914 mm) Rise Height

Installation Preparation

Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

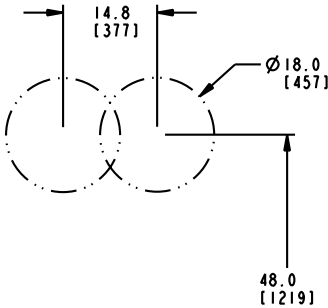
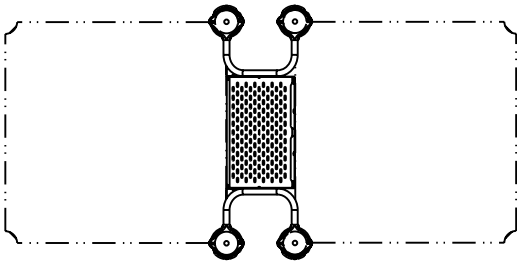
ICON KEY

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

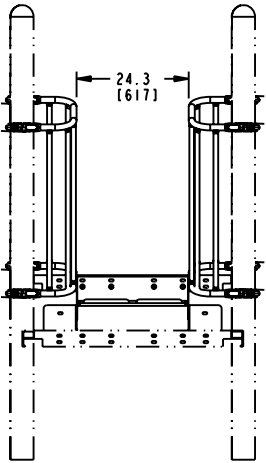
Installation Instructions

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

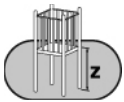
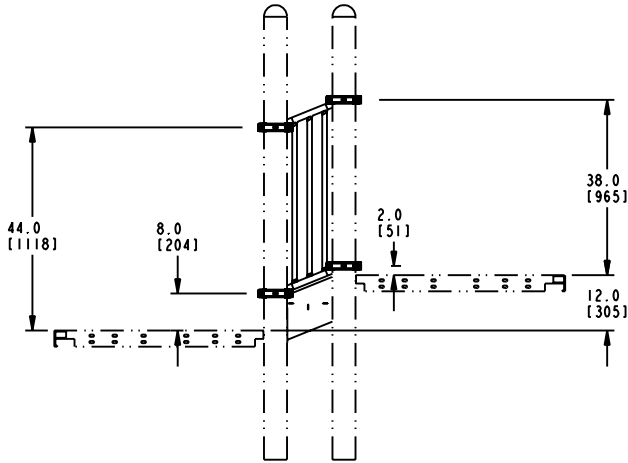
Top View



Footing Diagram



Elevation Views
PM9168

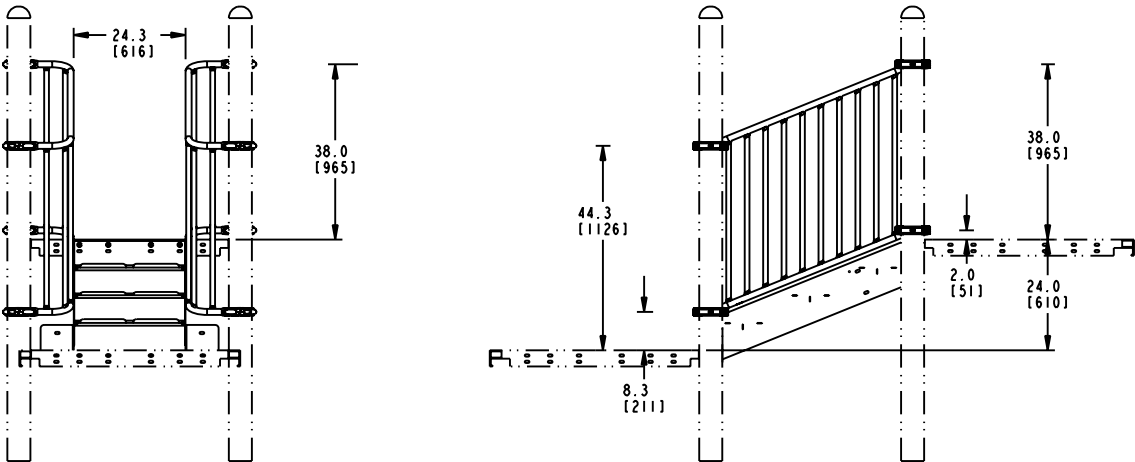
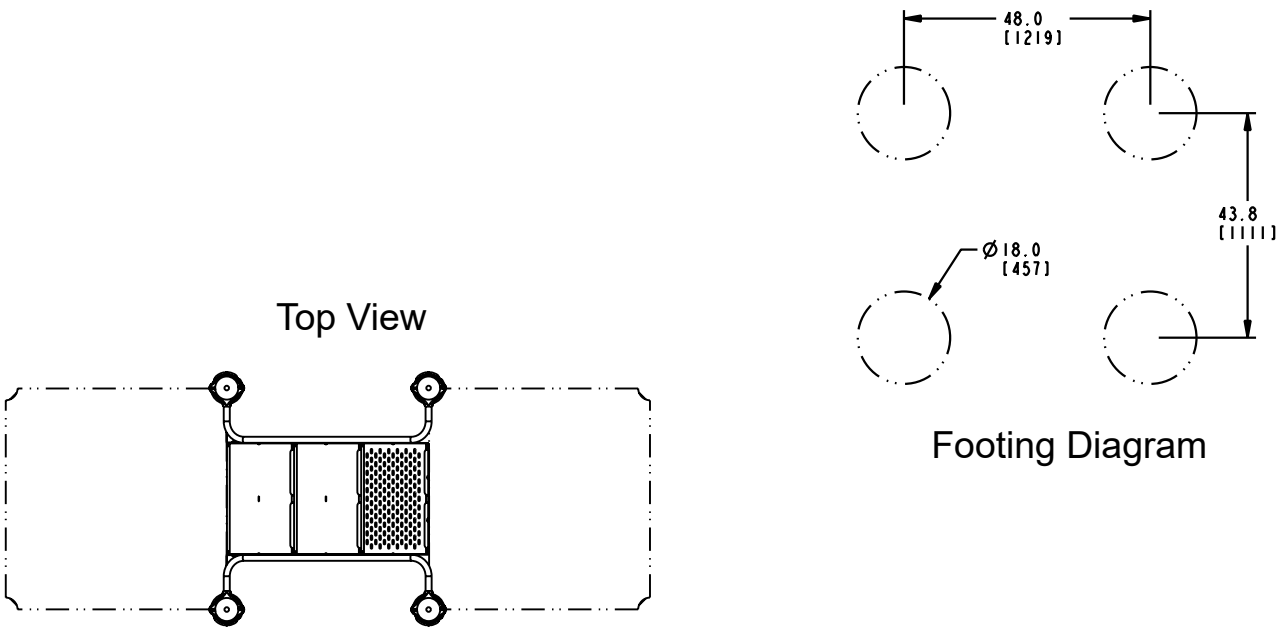


Height of the upper deck
minus 6" (152 mm)

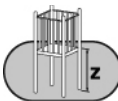


Installation Instructions

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



Elevation Views
PM9170



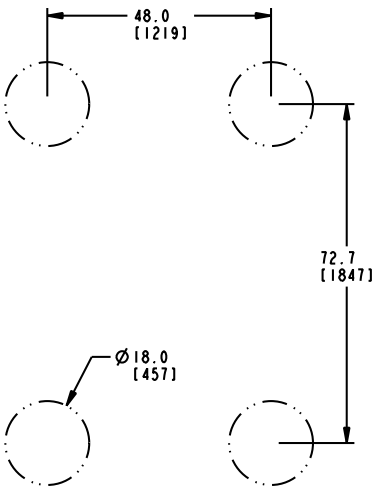
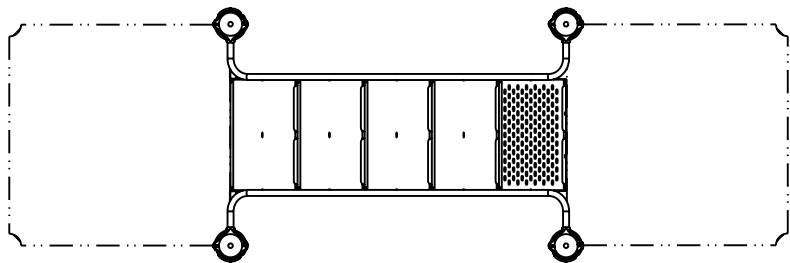
Height of the upper deck
minus 6" (152 mm)



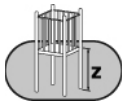
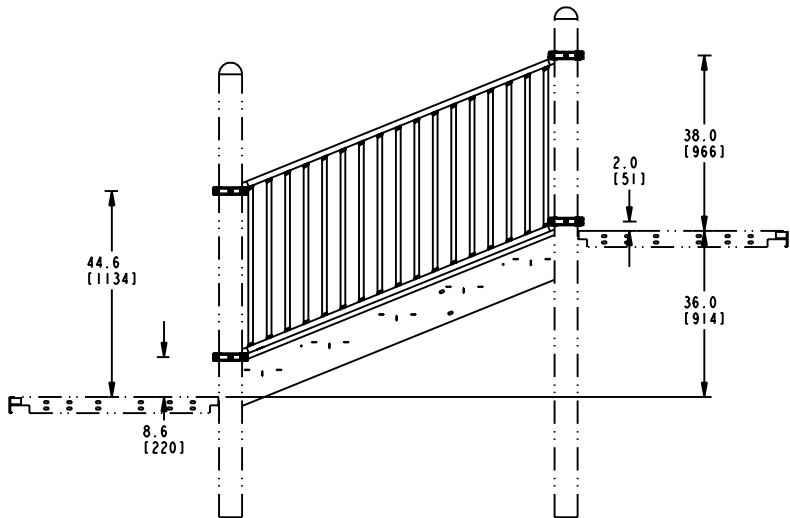
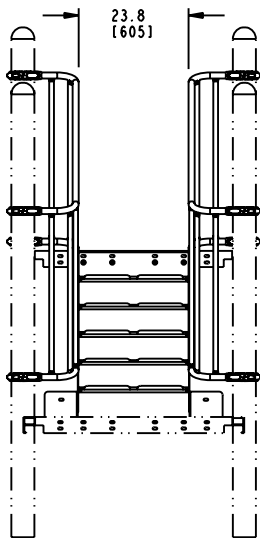
Installation Instructions

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

Top View



Footing Diagram



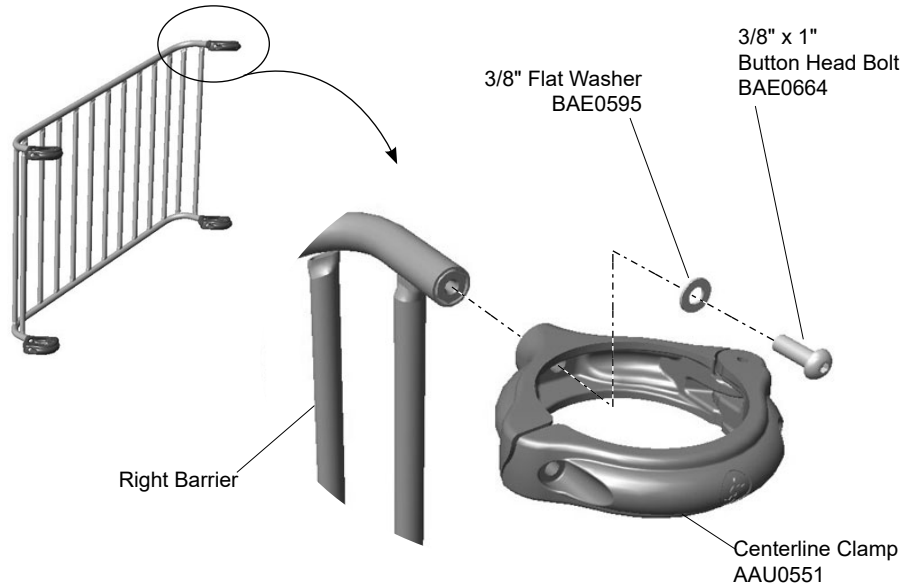
Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177



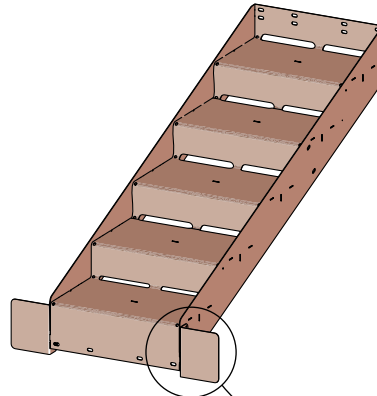
Installation Instructions

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

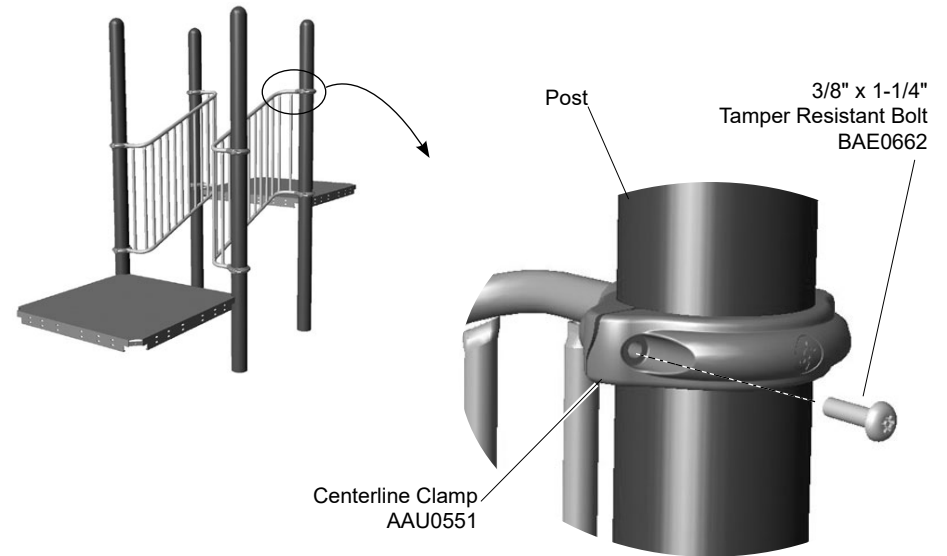


Detail A
Step 4

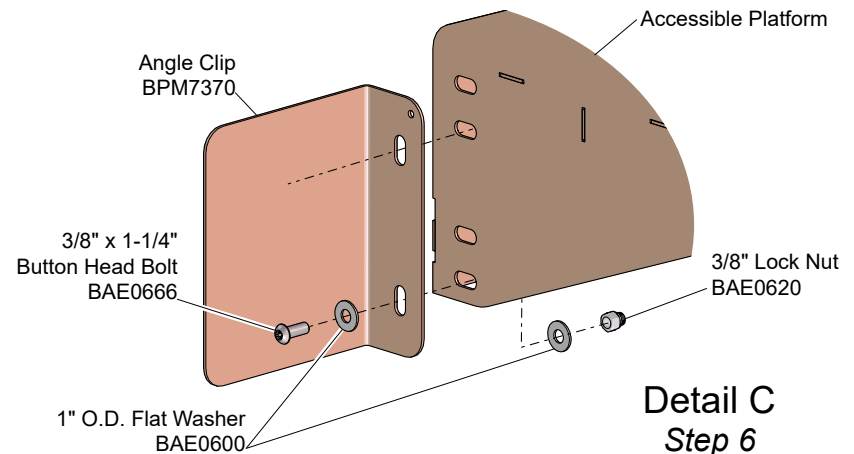
The front of angle clip should be even with the face of the platform



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299



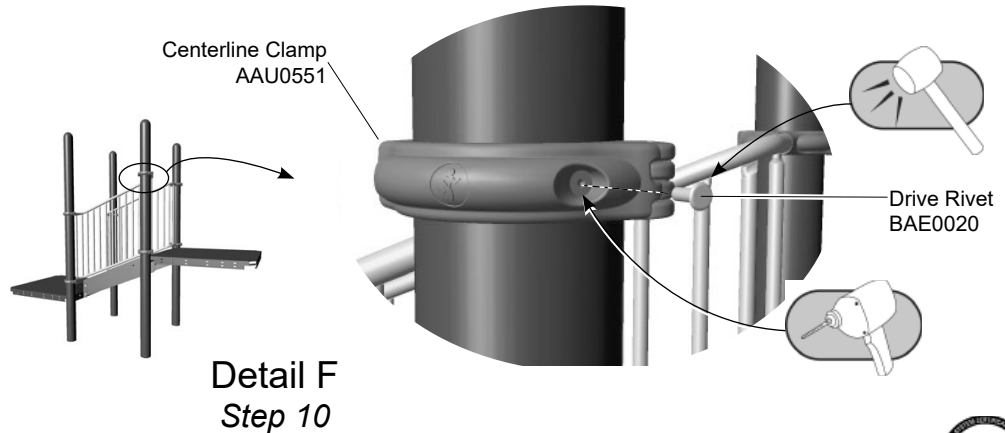
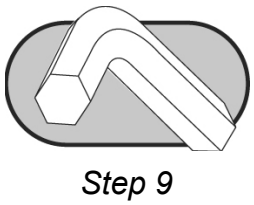
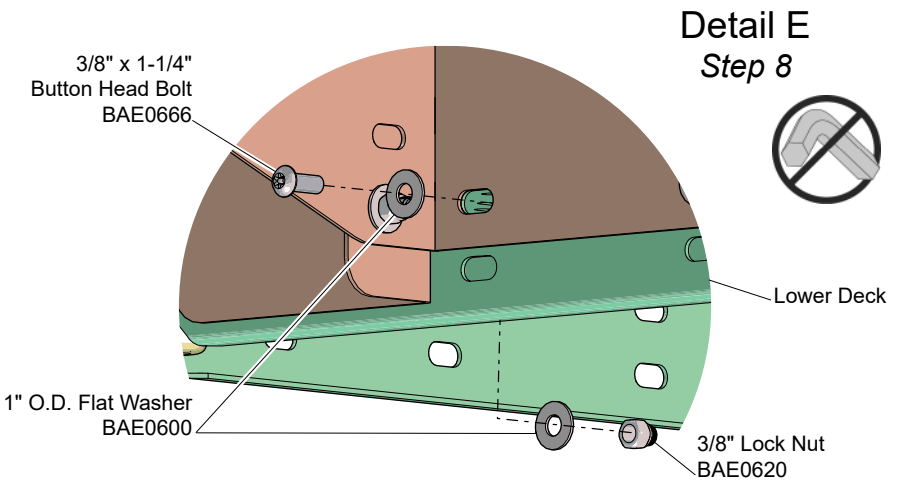
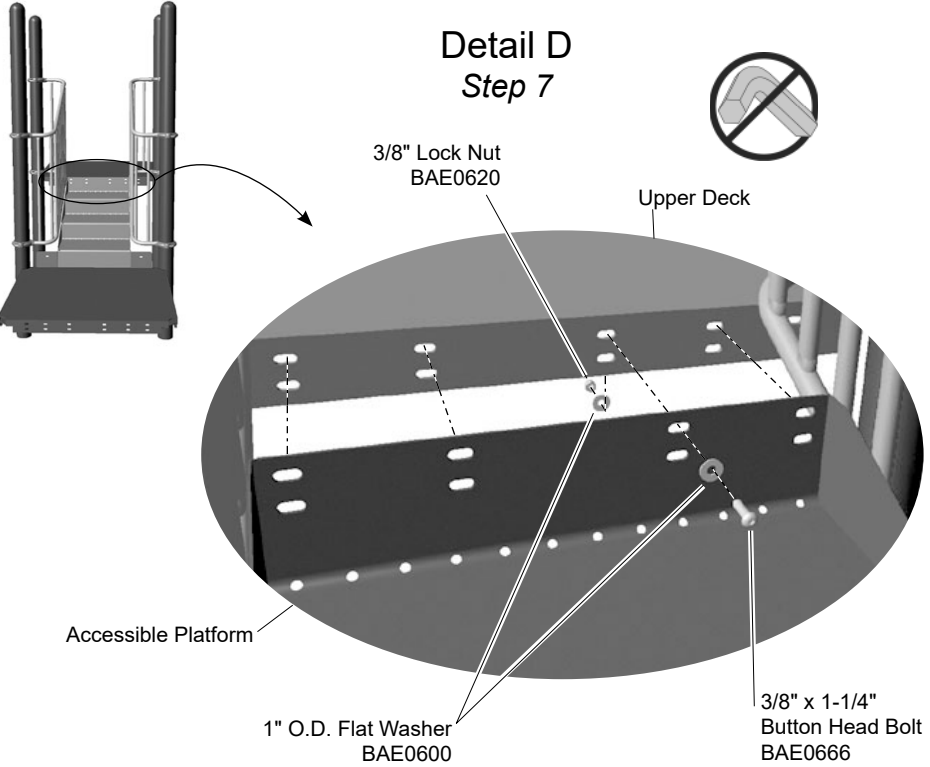
Detail B
Step 5



Detail C
Step 6



Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown.

Final Details.

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

Torque Specifications:

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

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

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

Bill of Materials

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16.09" x 43.28" x 8.38" PROTECTIVE (RIGHT)	1
AEN0488	BARRIER - 16.09" x 43.28" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74.04" x 66.69" x 8.38" PROTECTIVE (RIGHT)	1
AEN0492	BARRIER - 74.04" x 66.69" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

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

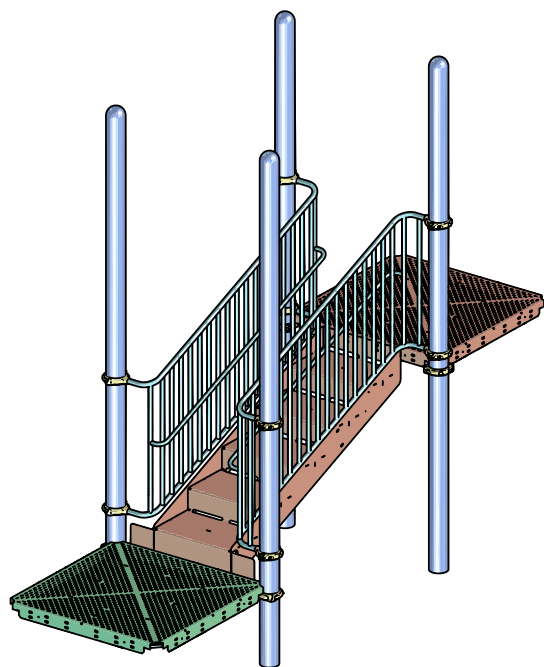
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45.07" x 54.99" x 8.38" PROTECTIVE (RIGHT)	1
AEN0490	BARRIER - 45.07" x 54.99" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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Assembly View (representative model)

Installation Instructions


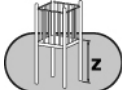

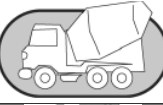



Playmakers®

Models PM9168, PM9170 and PM9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and
36" (914 mm) Rise Height

Installation Preparation

Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

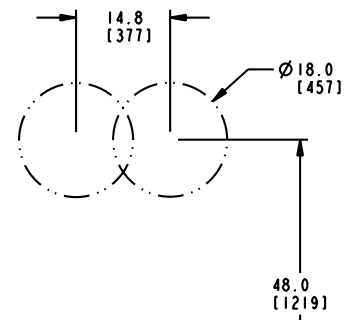
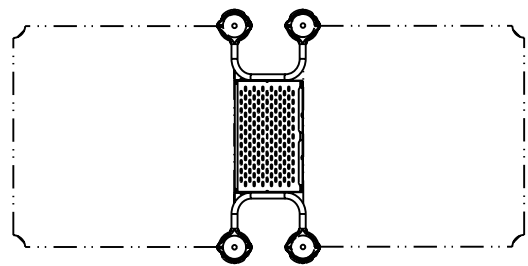
ICON KEY

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

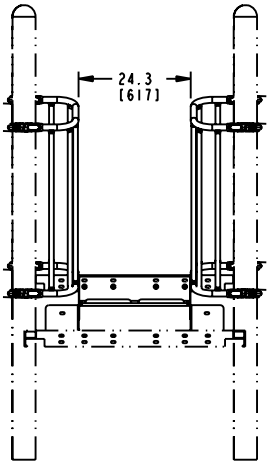
Installation Instructions

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

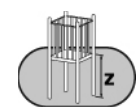
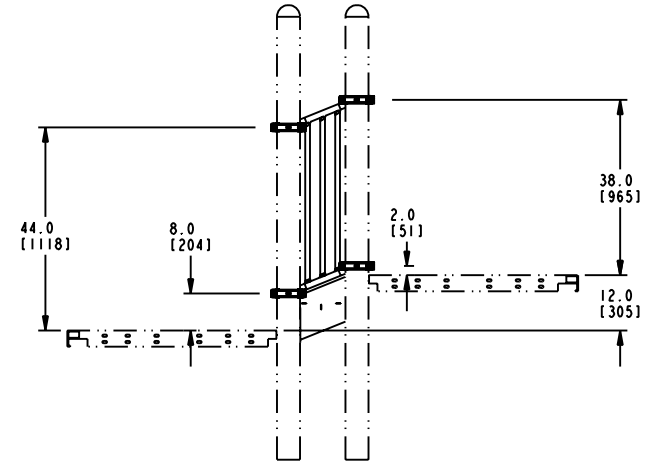
Top View



Footing Diagram



Elevation Views
PM9168

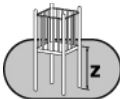
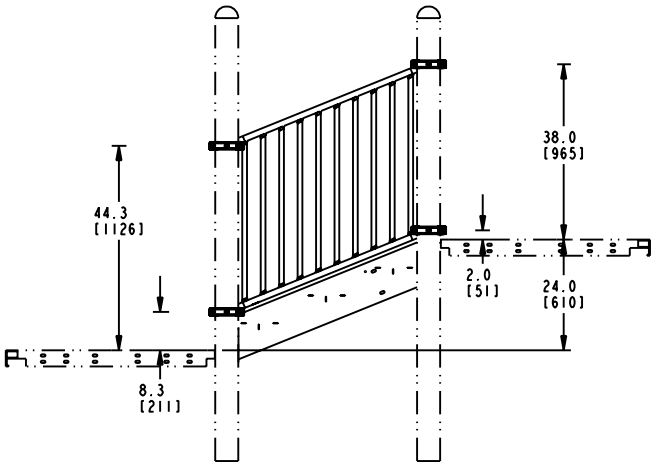
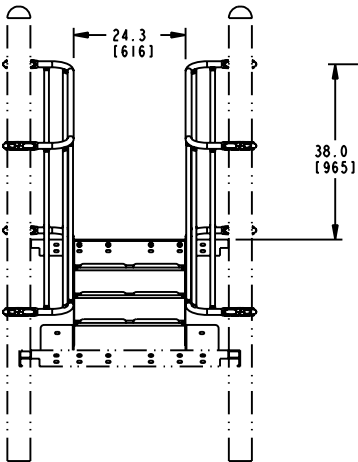
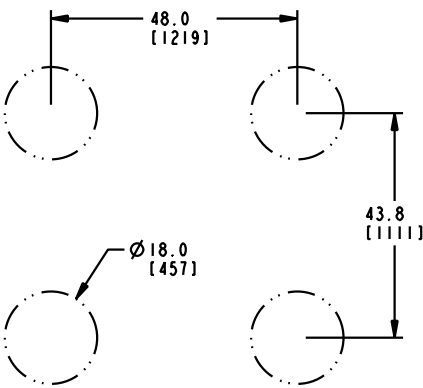
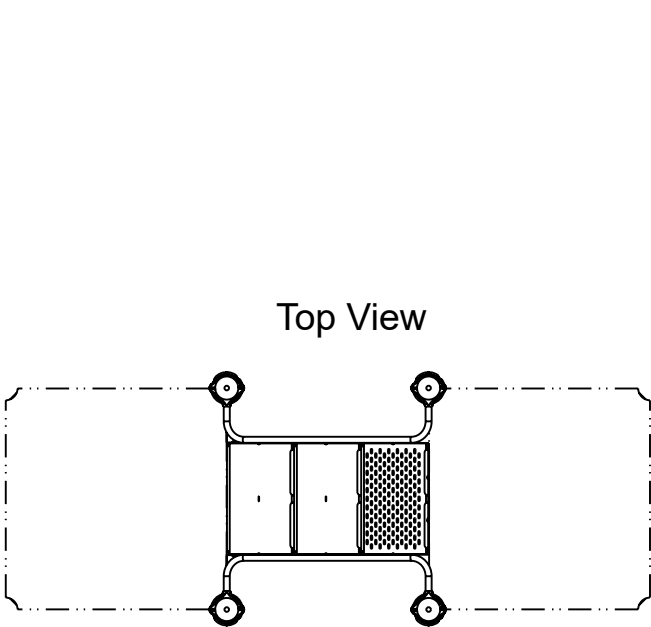


Height of the upper deck
minus 6" (152 mm)



Installation Instructions

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



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

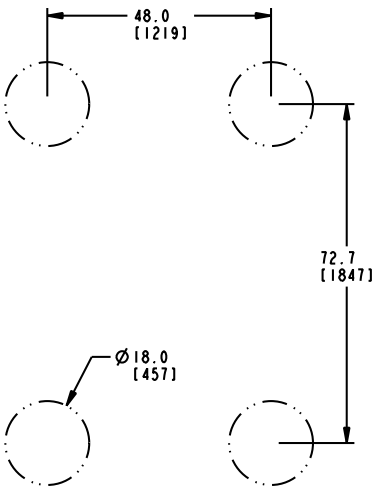
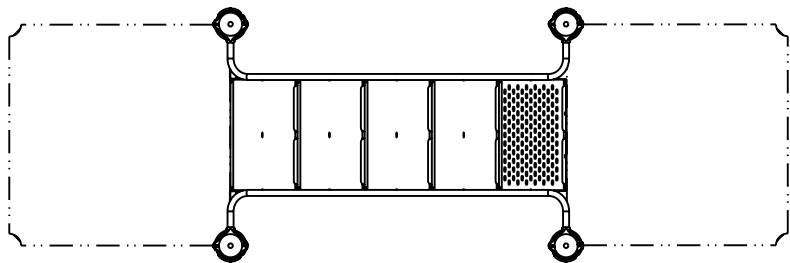
Elevation Views
PM9170



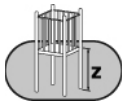
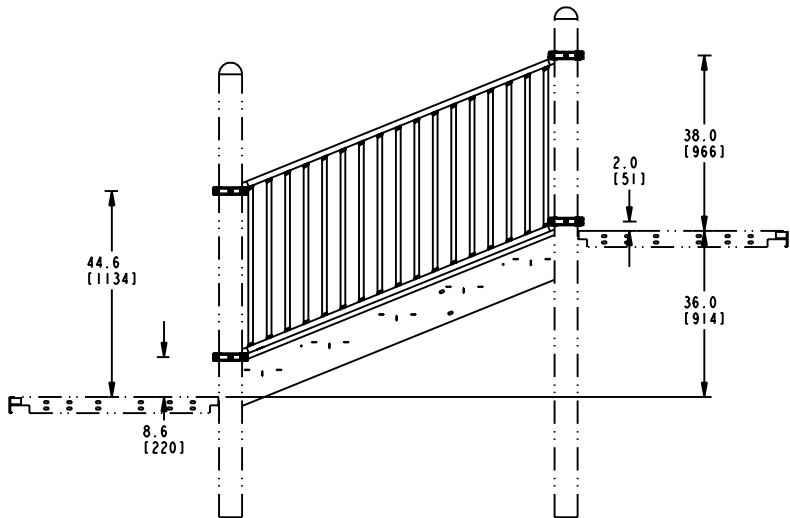
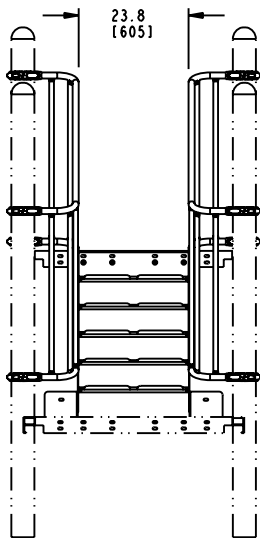
Installation Instructions

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

Top View



Footing Diagram



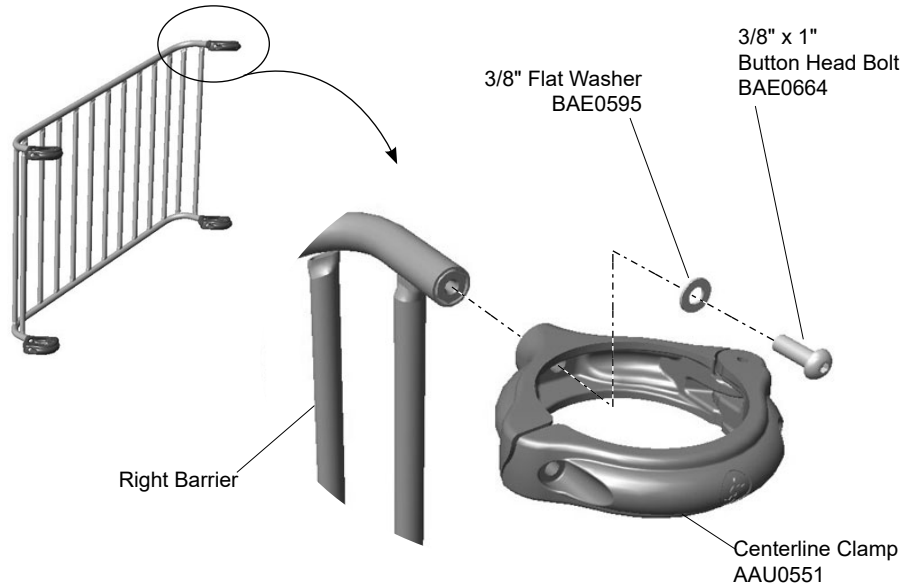
Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177



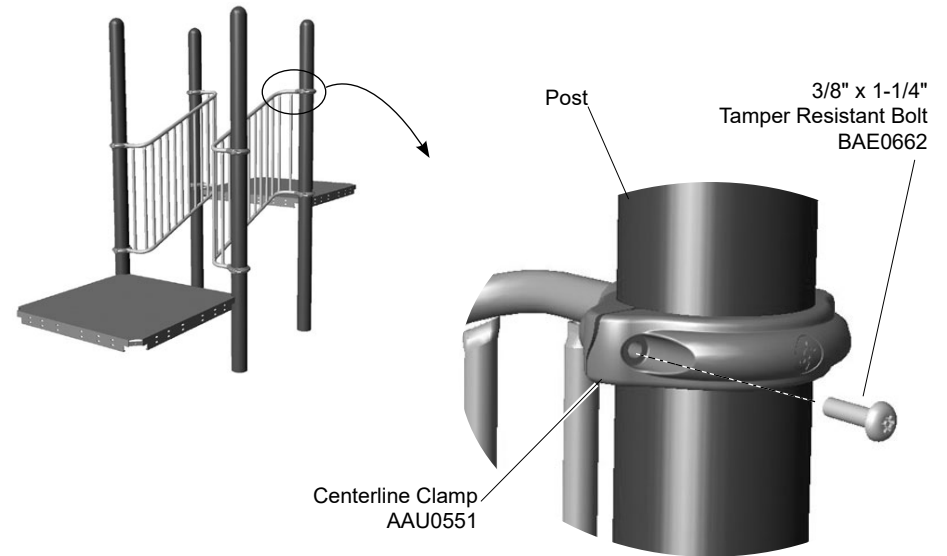
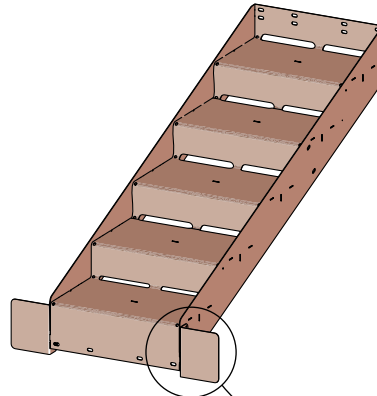
Installation Instructions

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

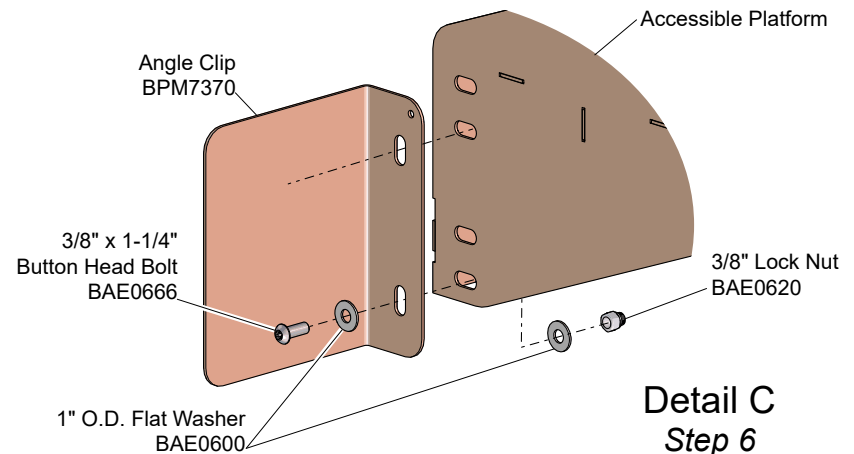


Detail A
Step 4

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



Detail B
Step 5

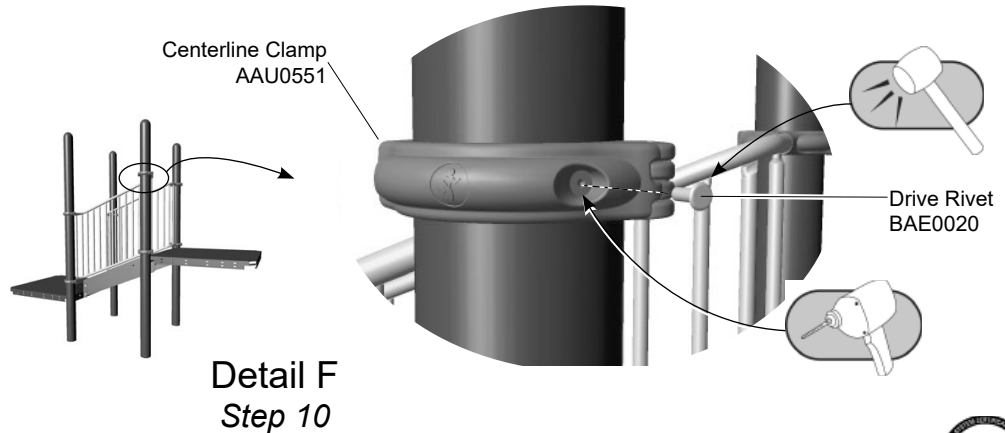
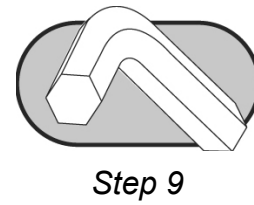
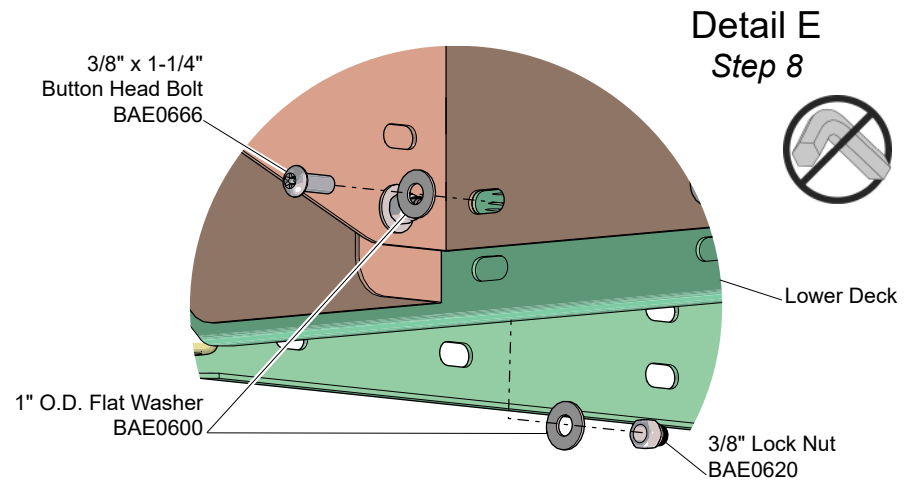
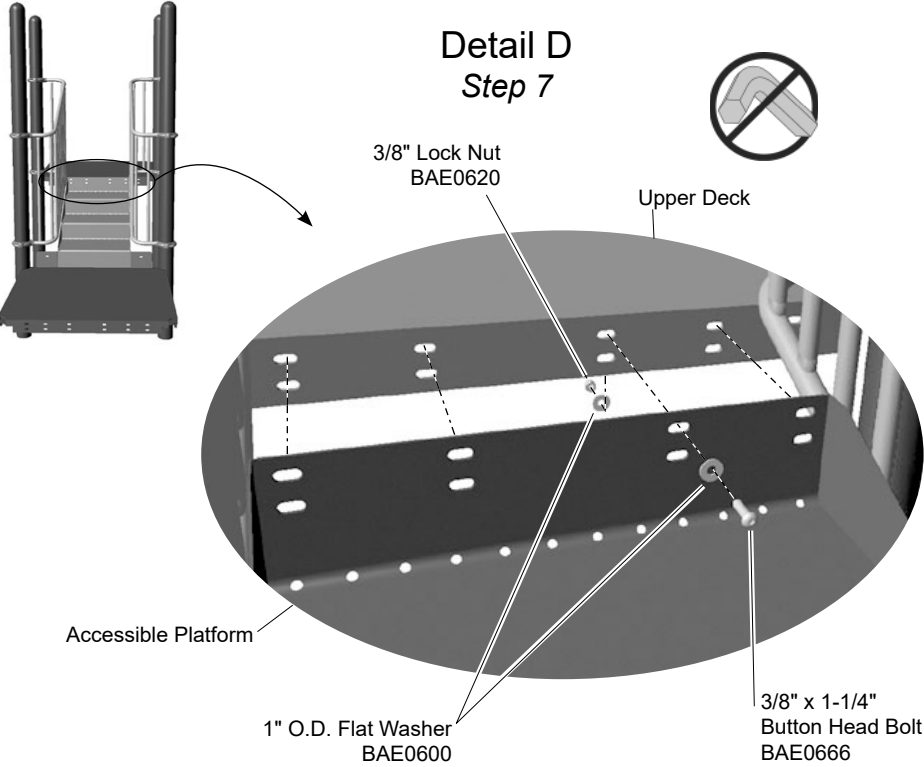


Detail C
Step 6



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown.

Final Details.

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

Torque Specifications:

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

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

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

Bill of Materials

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16.09" x 43.28" x 8.38" PROTECTIVE (RIGHT)	1
AEN0488	BARRIER - 16.09" x 43.28" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74.04" x 66.69" x 8.38" PROTECTIVE (RIGHT)	1
AEN0492	BARRIER - 74.04" x 66.69" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

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

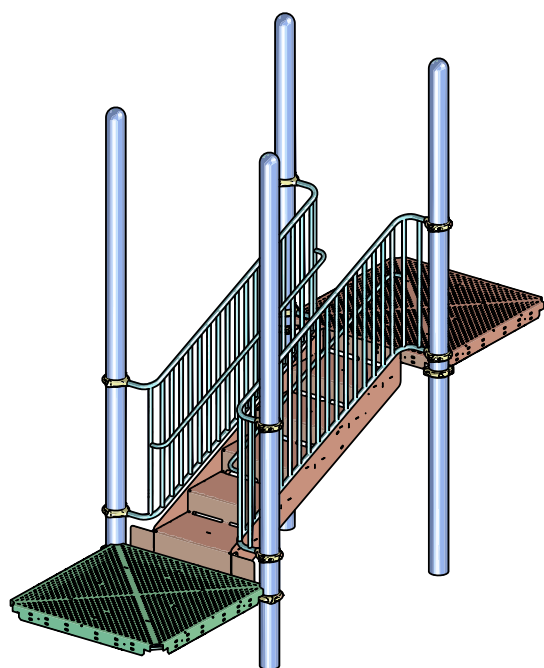
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45.07" x 54.99" x 8.38" PROTECTIVE (RIGHT)	1
AEN0490	BARRIER - 45.07" x 54.99" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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Assembly View (representative model)

Installation Instructions


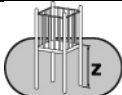

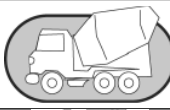
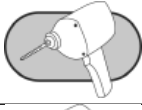

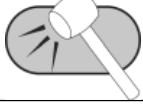
Playmakers®

Models PM9168, PM9170 and PM9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and
36" (914 mm) Rise Height

Installation Preparation

Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

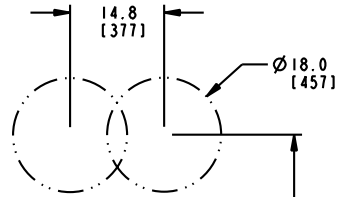
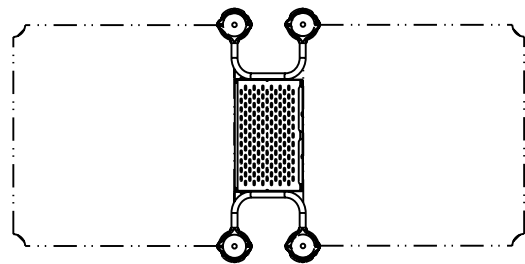
ICON KEY

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

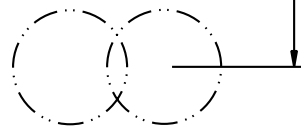
Installation Instructions

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

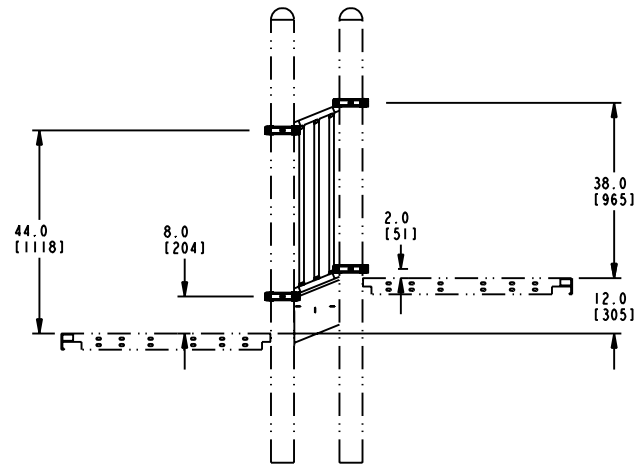
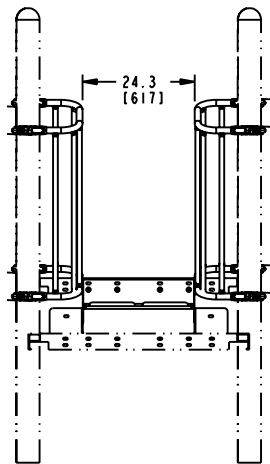
Top View



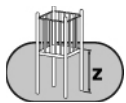
48.0
[1219]



Footing Diagram



Elevation Views
PM9168

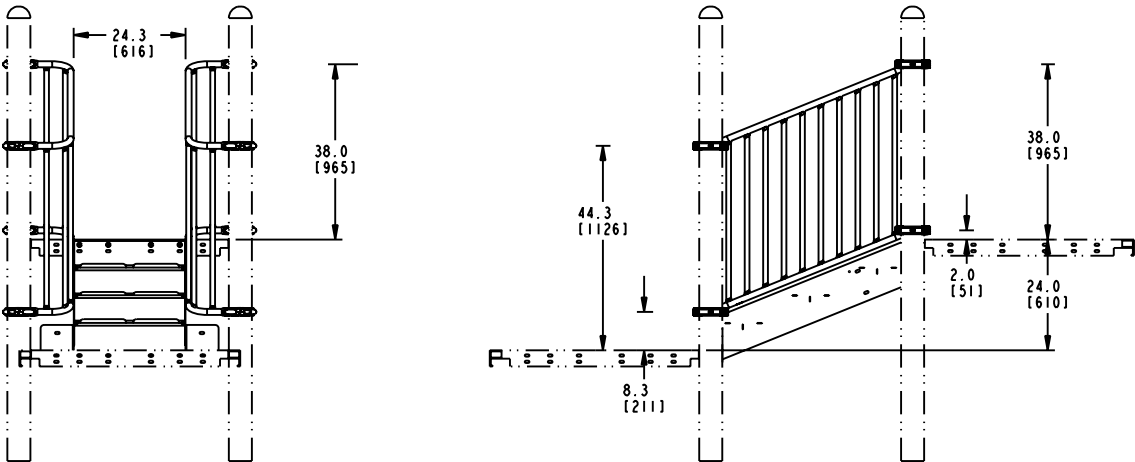
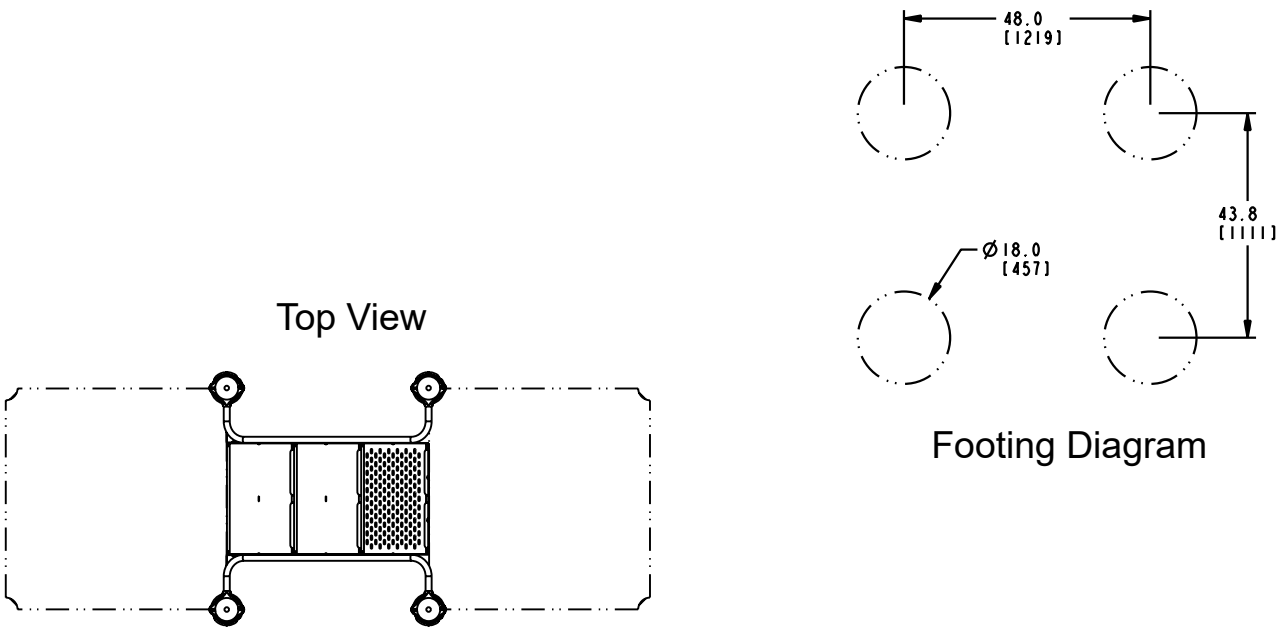


Height of the upper deck
minus 6" (152 mm)

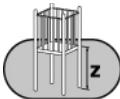


Installation Instructions

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



Elevation Views
PM9170



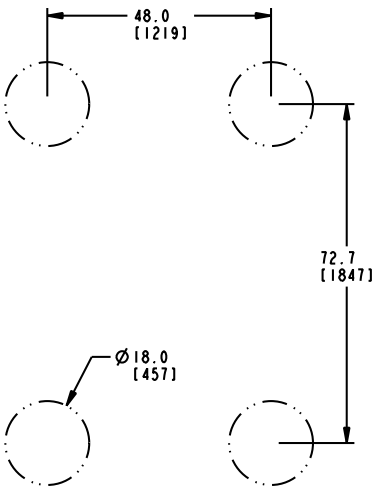
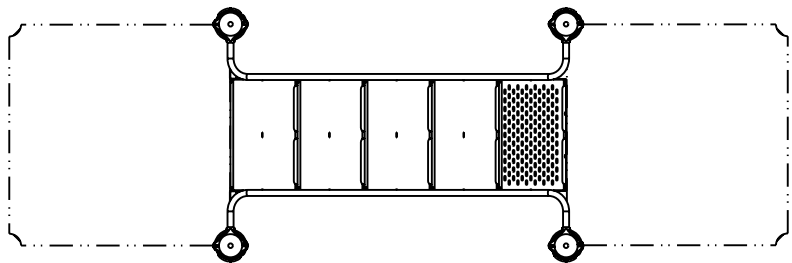
Height of the upper deck
minus 6" (152 mm)



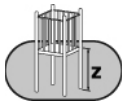
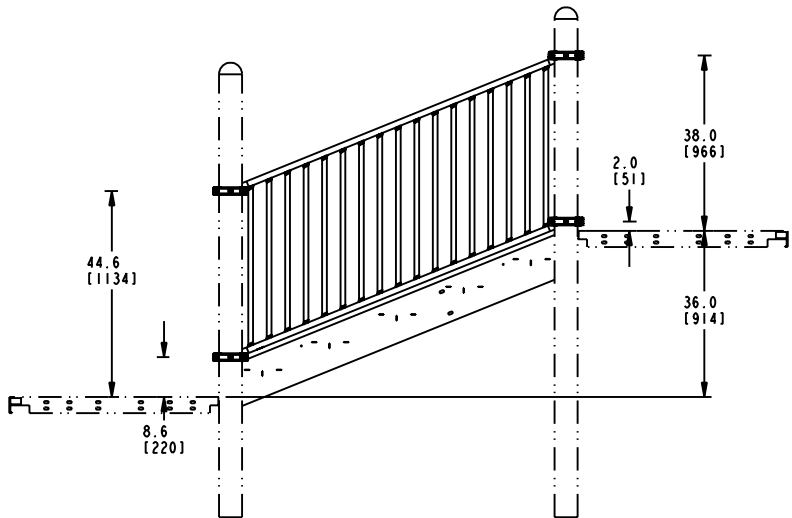
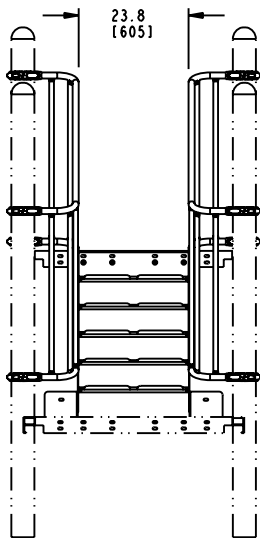
Installation Instructions

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

Top View



Footing Diagram



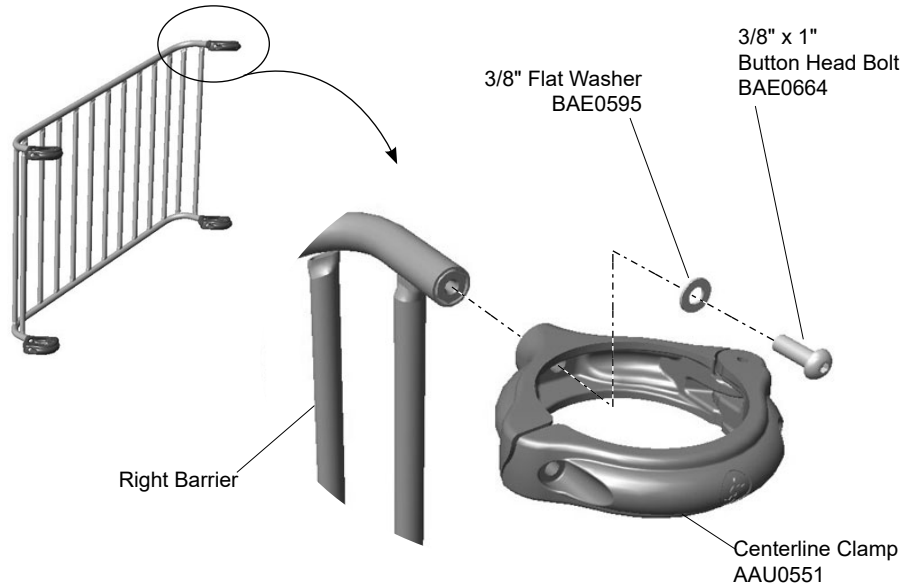
Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177



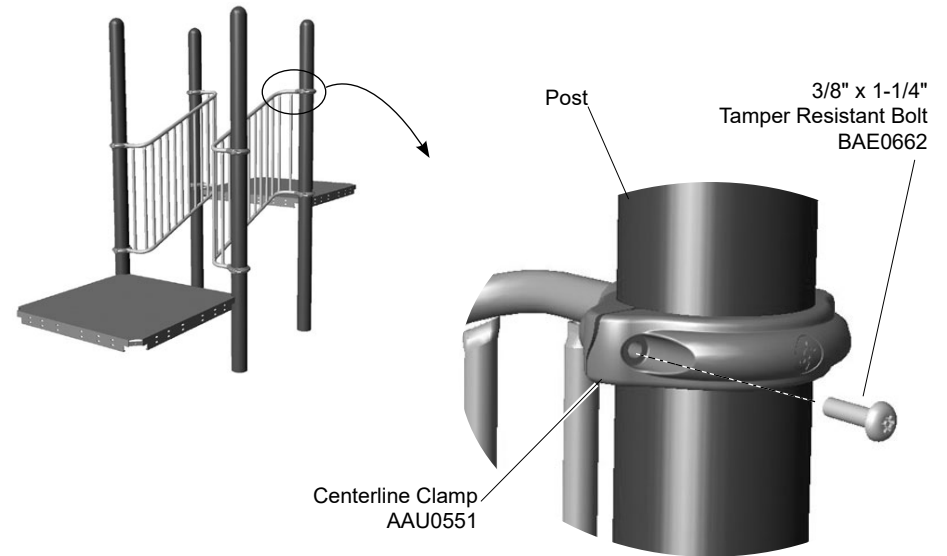
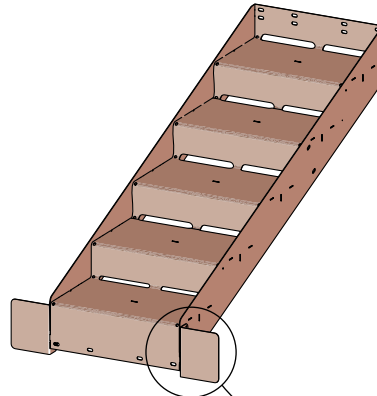
Installation Instructions

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

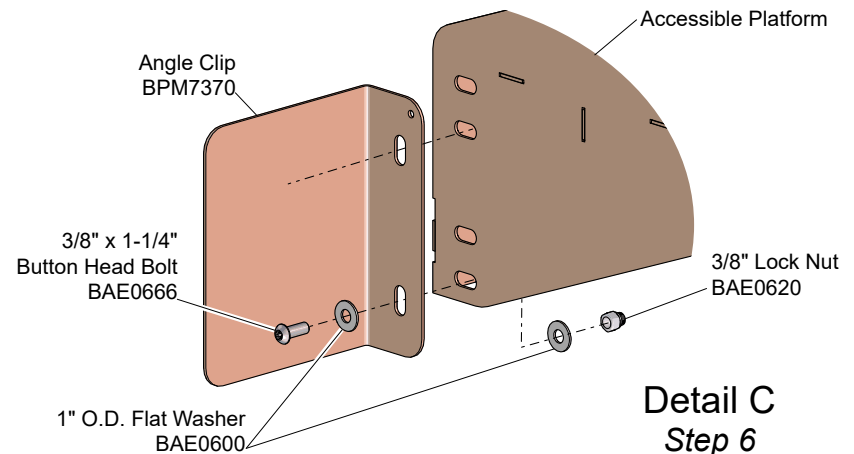


Detail A
Step 4

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



Detail B
Step 5

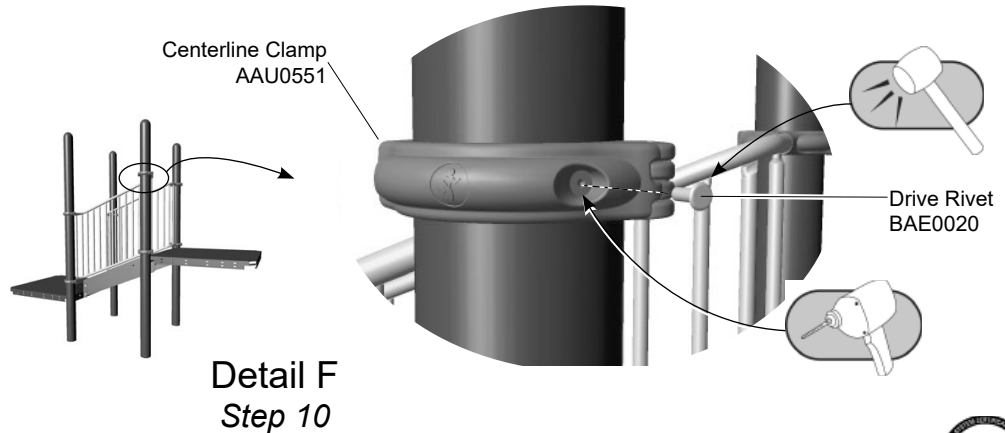
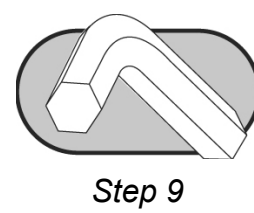
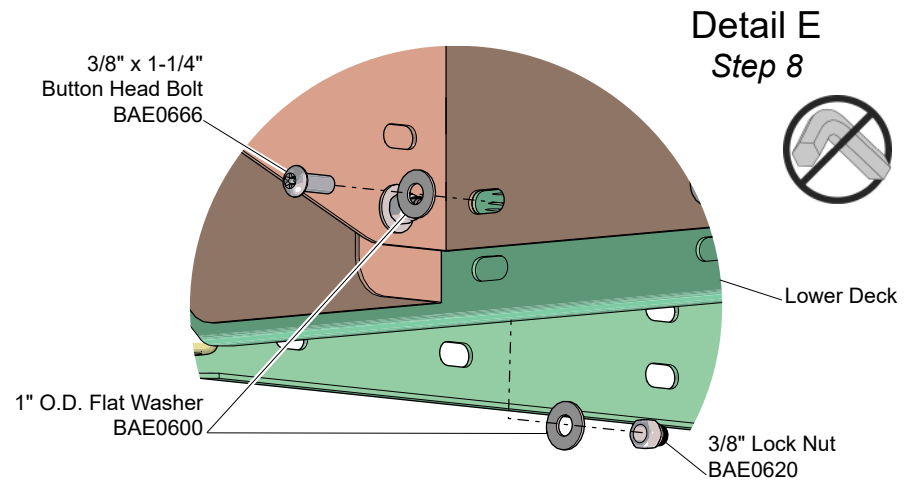
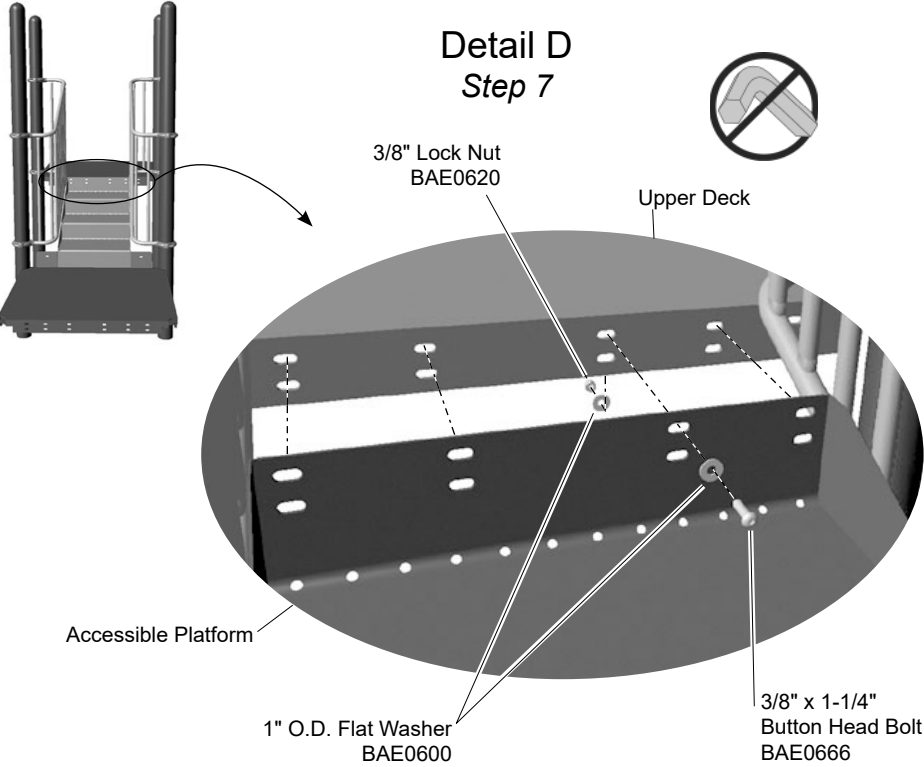


Detail C
Step 6



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown.

Final Details.

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

Torque Specifications:

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

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

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

Bill of Materials

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16.09" x 43.28" x 8.38" PROTECTIVE (RIGHT)	1
AEN0488	BARRIER - 16.09" x 43.28" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74.04" x 66.69" x 8.38" PROTECTIVE (RIGHT)	1
AEN0492	BARRIER - 74.04" x 66.69" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

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

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45.07" x 54.99" x 8.38" PROTECTIVE (RIGHT)	1
AEN0490	BARRIER - 45.07" x 54.99" x 8.38" PROTECTIVE (LEFT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	16
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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Assembly View

Installation Instructions


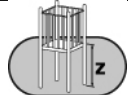

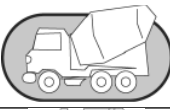
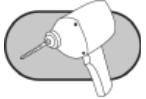


Playmakers®
Model PM9846
Cabana Roof

Installation Preparation

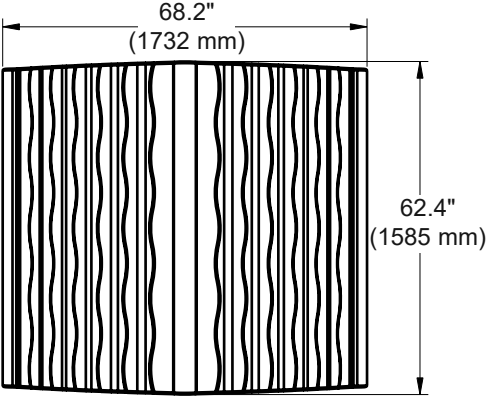
Recommended Crew: Two (2) adults

Installation Time: 1 man-hour

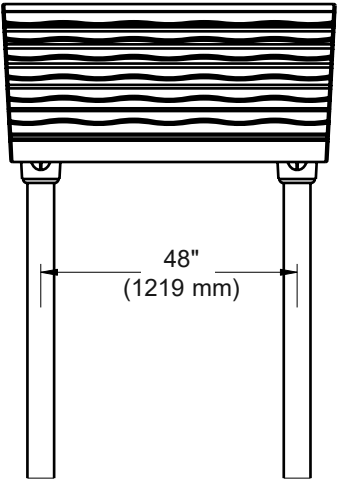
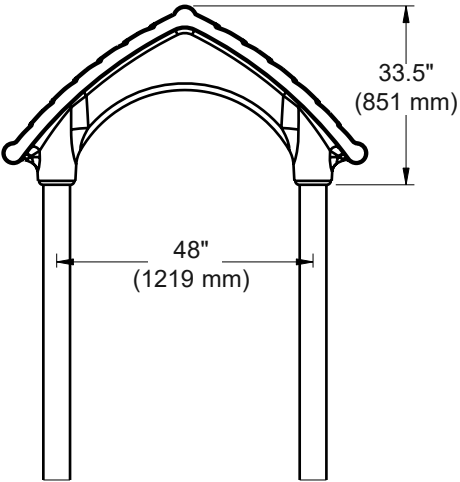
ICON KEY

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

Installation Instructions



Top View



Elevation Views
ZZPM9846

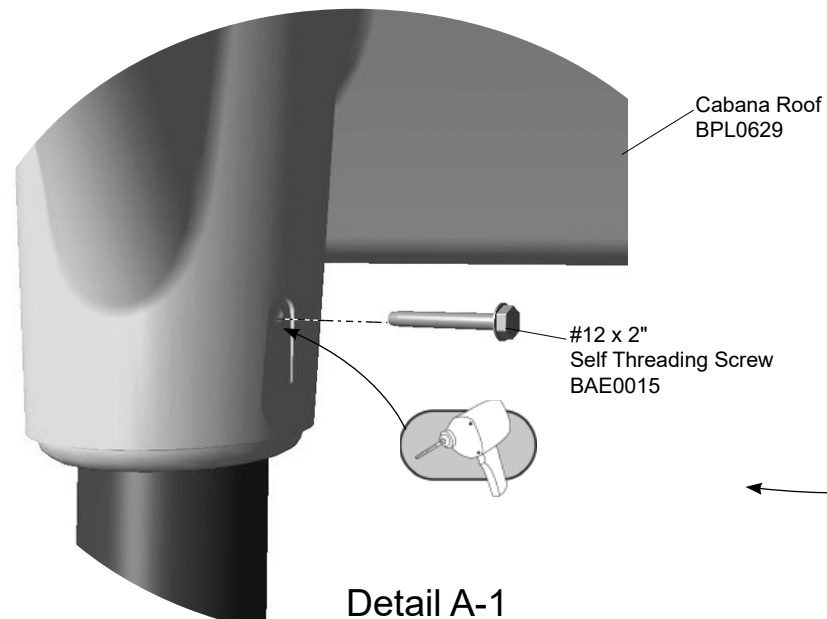


Installation Instructions

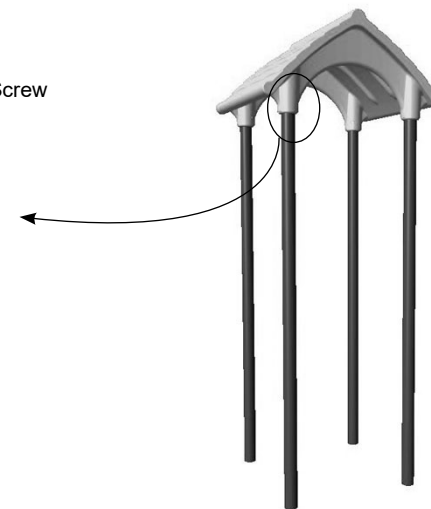
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1
Step 3



Detail A-1
Step 3



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

Bill of Materials

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1





Assembly View


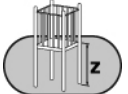

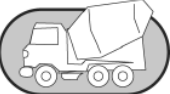


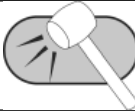
Installation Instructions

Universal Model UN2019
Platform Approach Step

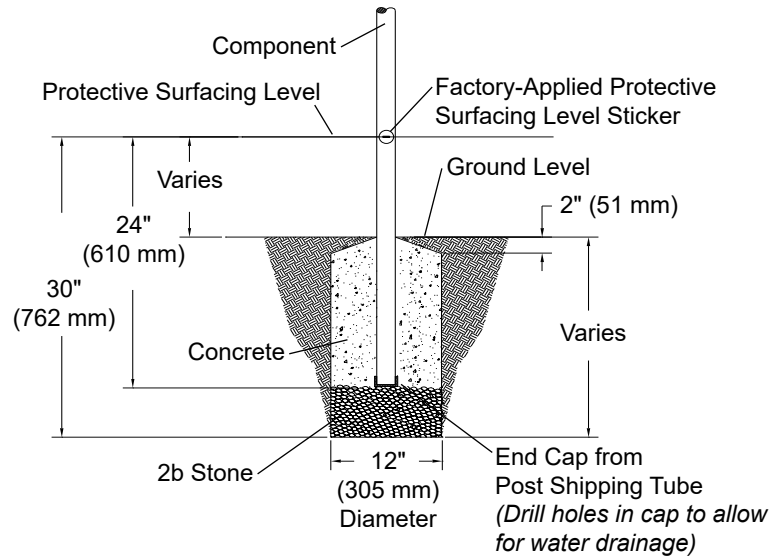
Installation Preparation

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

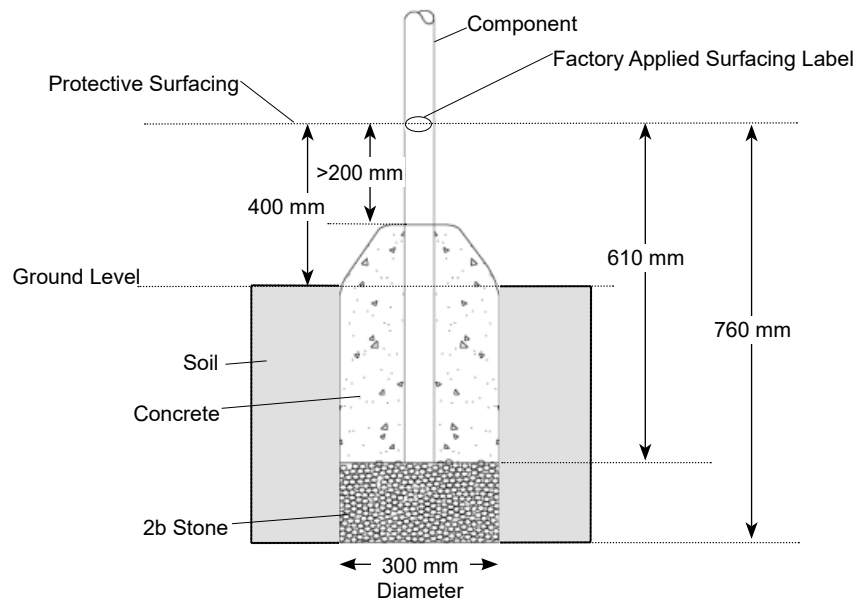
ICON KEY

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

Installation Instructions



Component Footing Detail (ASTM/CSA)

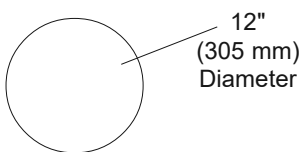


Footing Detail Component Post (EN)

FOOTING NOTES

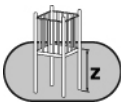
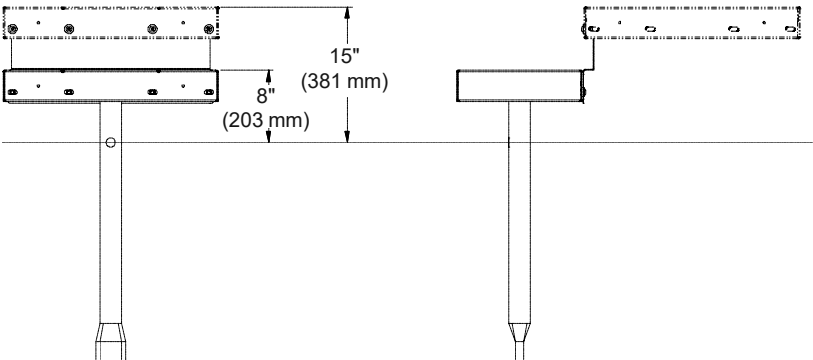
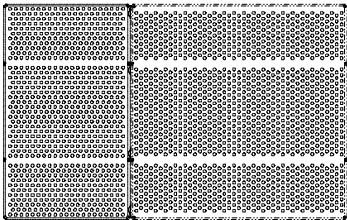
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- Component footing depth equals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

Installation Instructions



Footing Diagram

Top View



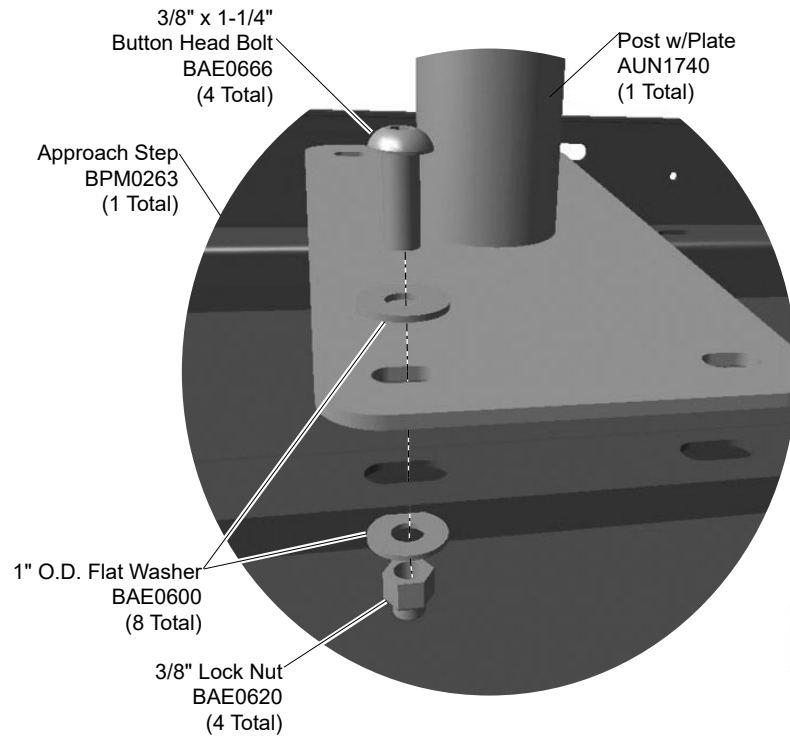
15" (381 mm)

Elevation Views



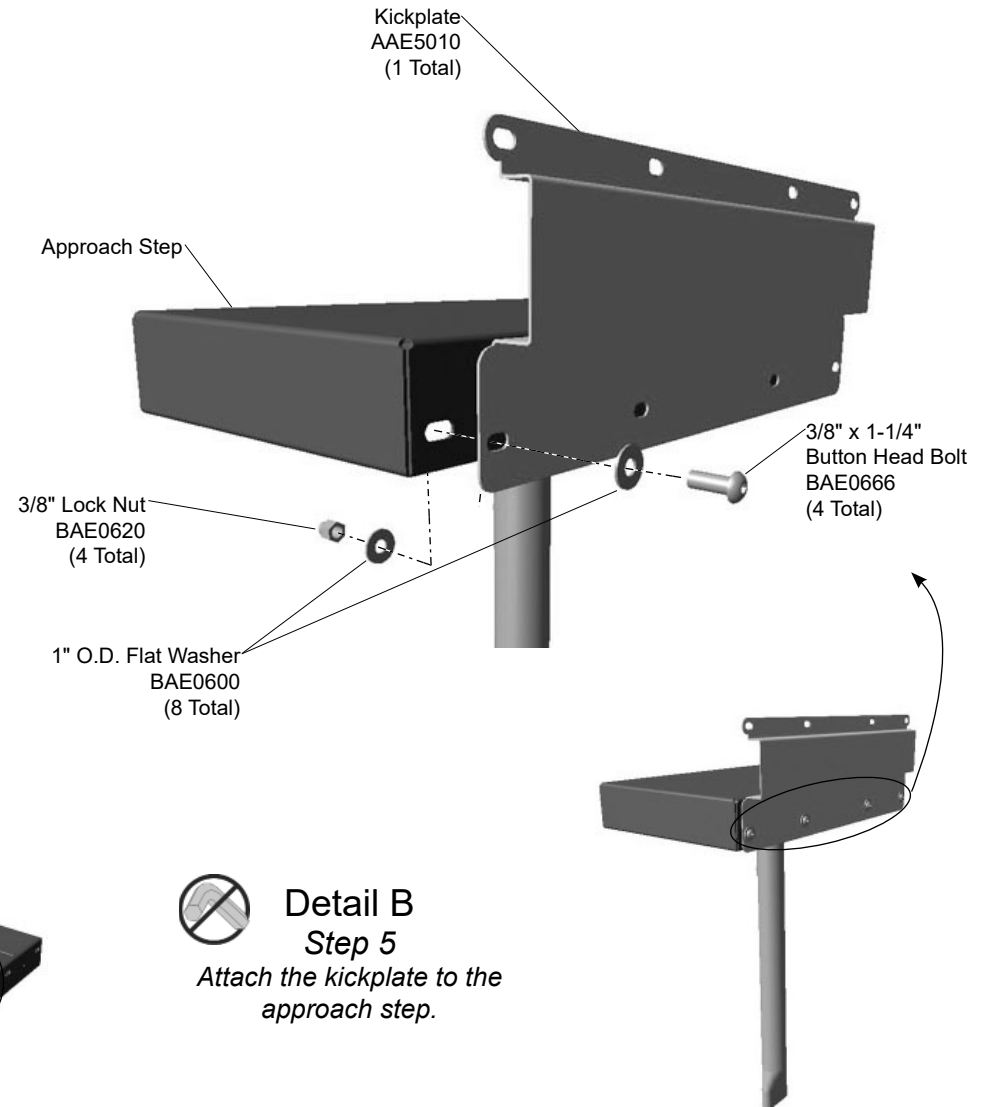
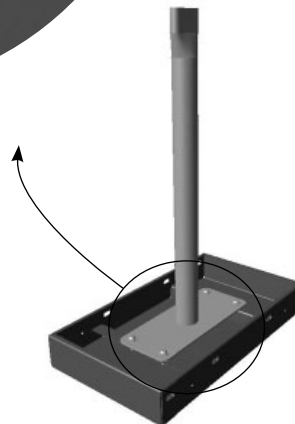
Installation Instructions

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



Detail A Step 4

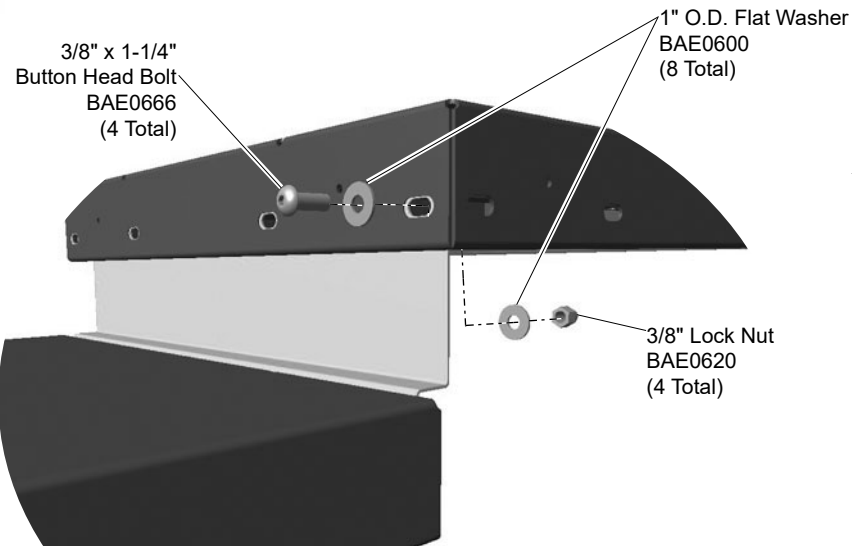
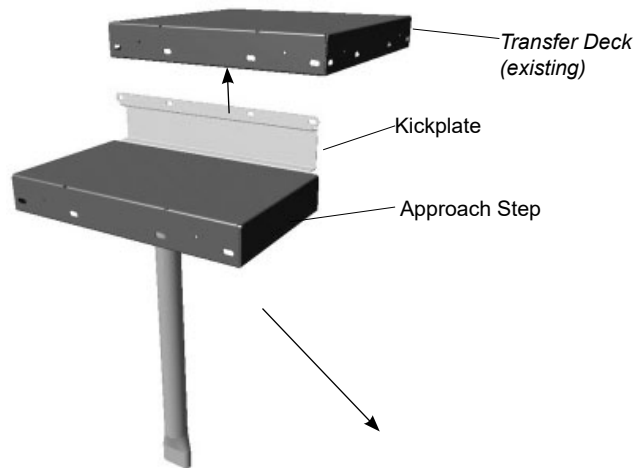
Attach the anchor post to the approach step.



Detail B Step 5

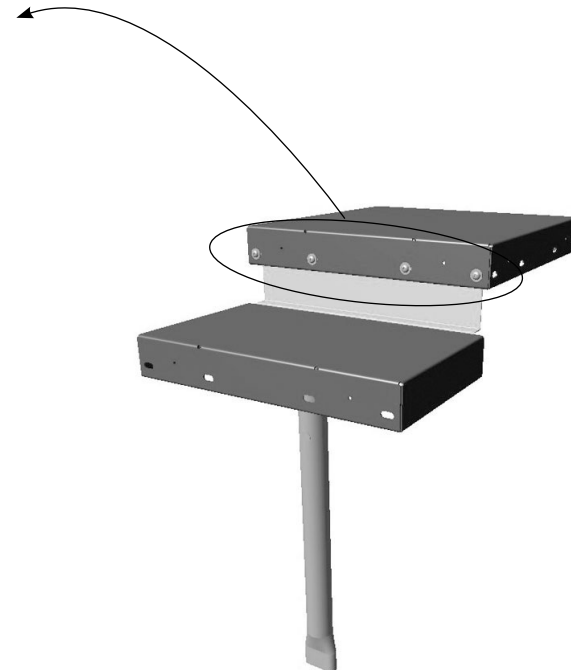
Attach the kickplate to the approach step.

Installation Instructions



Step 6

Attach the kickplate to the transfer deck.



Installation Instructions

Bill of Materials

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** on page 2 of this installation document.

Attach the support leg to the approach step.

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

Attach the kickplate to the approach step.

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

Attach the approach step assembly to the transfer deck.

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

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

Final Details.

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

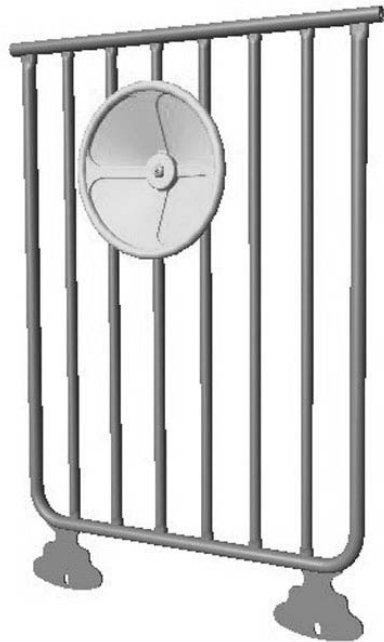
Torque Specifications:

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

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1





Assembly View (representative model)

Model	Description
ZZUN4299	CH/EX for 4" Centers
ZZUN4300	PM for 4" Centers
ZZUN4307	CH/EX for 3.75" Centers

Installation Instructions




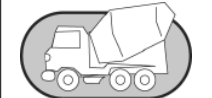
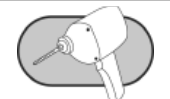

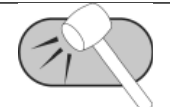
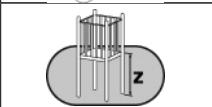
Universal Models UN4299, UN4300, & UN4307

Steering Wheel Pipe Wall Mount

Installation Preparation

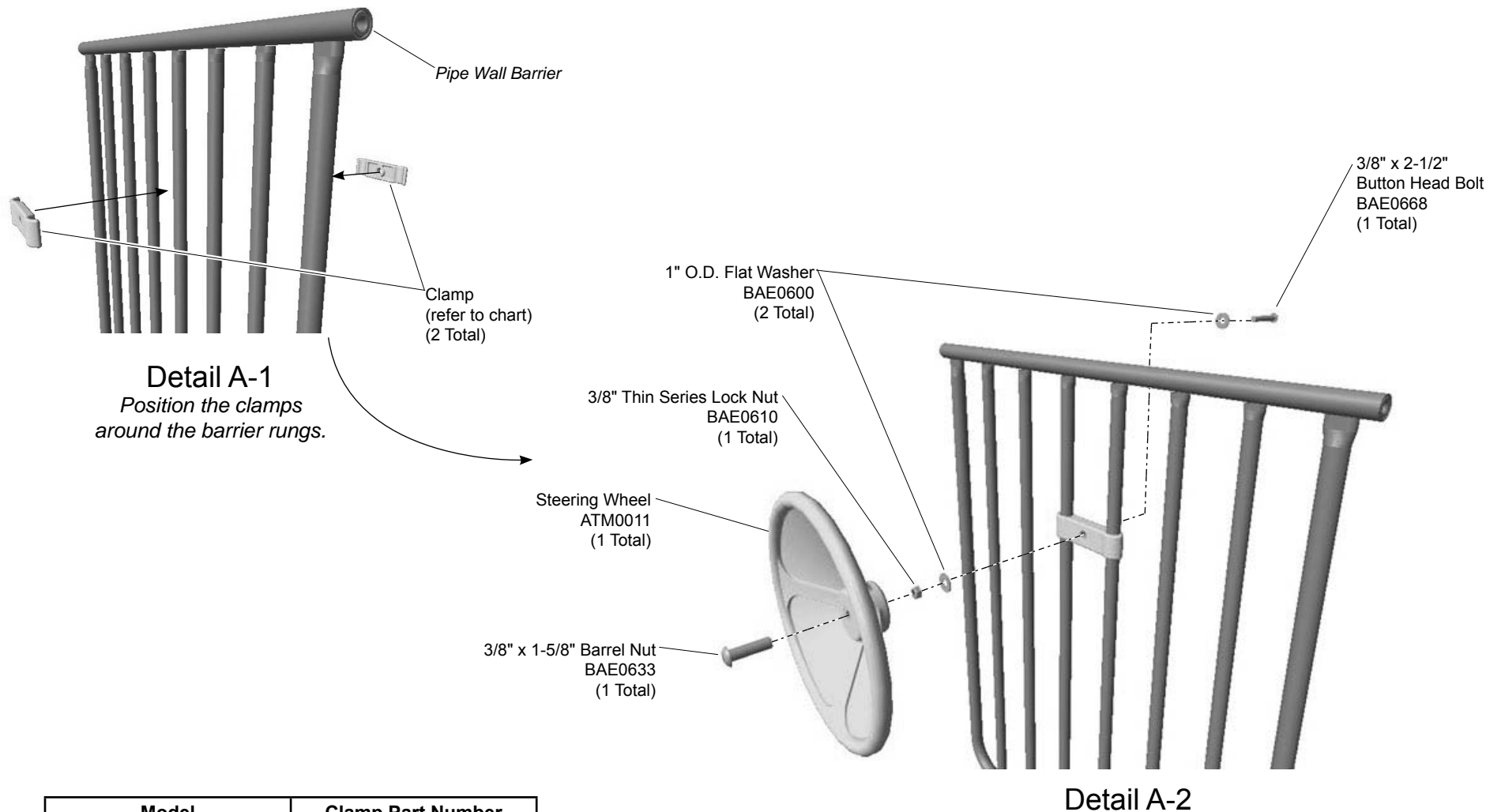
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

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

Installation Instructions

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



Model	Clamp Part Number
ZZUN4299	AAU0043
ZZUN4300	AAU0380
ZZUN4307	AAU0046

Details A-1 and A-2
Step 3
Attach the steering wheel to the barrier.



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the steering wheel to the pipe wall barrier.

Step 3: See **Details A-1 and A-2**. Place the steering wheel clamps around the bars on the pipe wall barrier. Working from the outside of the pipe wall barrier, insert a bolt through a flat washer, both clamps, another flat washer, and thread on a thin series lock nut. Move the clamps to the appropriate height for the intended user, and fully tighten the nut to hold the clamps in place. Insert the barrel nut into the steering wheel and thread the barrel nut / steering wheel assembly onto the bolt.

Final Details.

Step 4: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. The steering wheel should still turn freely.

Torque Specifications:

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

UN4299 - STEERING WHEEL PIPE WALL MOUNT FOR 4 in. RUNG CENTERS (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1

UN4300 - STEERING WHEEL PIPE WALL MOUNT FOR 4 in. RUNG CENTERS (PM)

PART NO.	DESCRIPTION	QTY.
AAU0380	CLAMP - STEERING WHEEL	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1

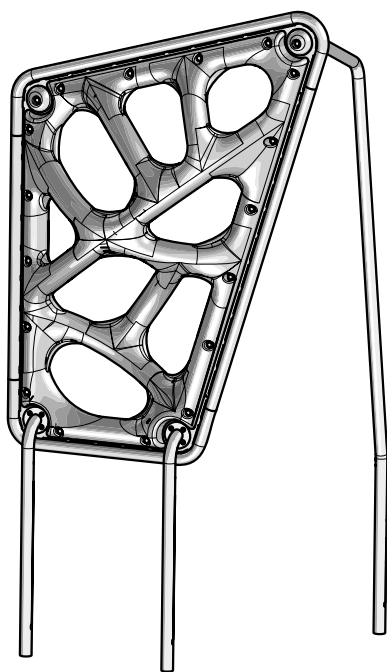
UN4307 - STEERING WHEEL PIPE WALL MOUNT 3.75 in. RUNG CENTERS (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0046	CLAMP - STEERING WHEEL FOR 3-3/4" CENTERS	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1



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570-522-9800 OUTSIDE U.S.
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Assembly View (representative model)

Installation Instructions

Universal Models ZZUN6840 and ZZUN6840S


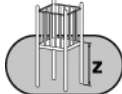

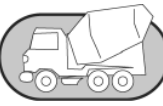
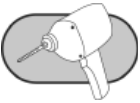


ModPods Quad - Vertical

In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (in-ground): 3 man-hours
 Installation Time (surface mount): 1.5 man-hour
 Concrete Required: 0.39 cubic yard (0,30 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

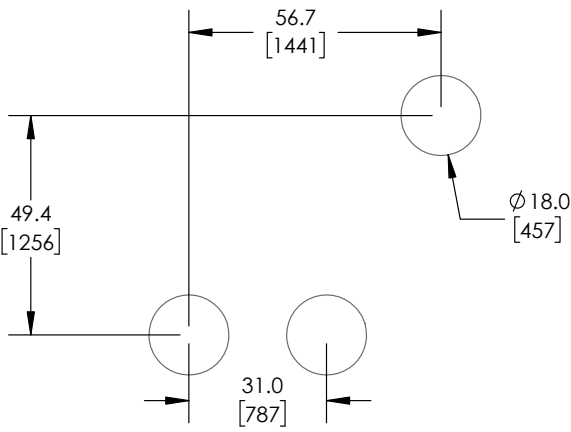
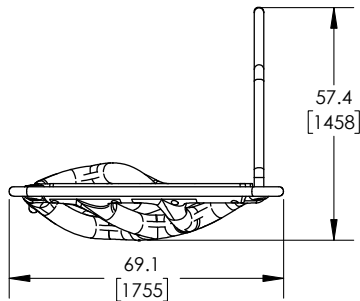
ICON KEY

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

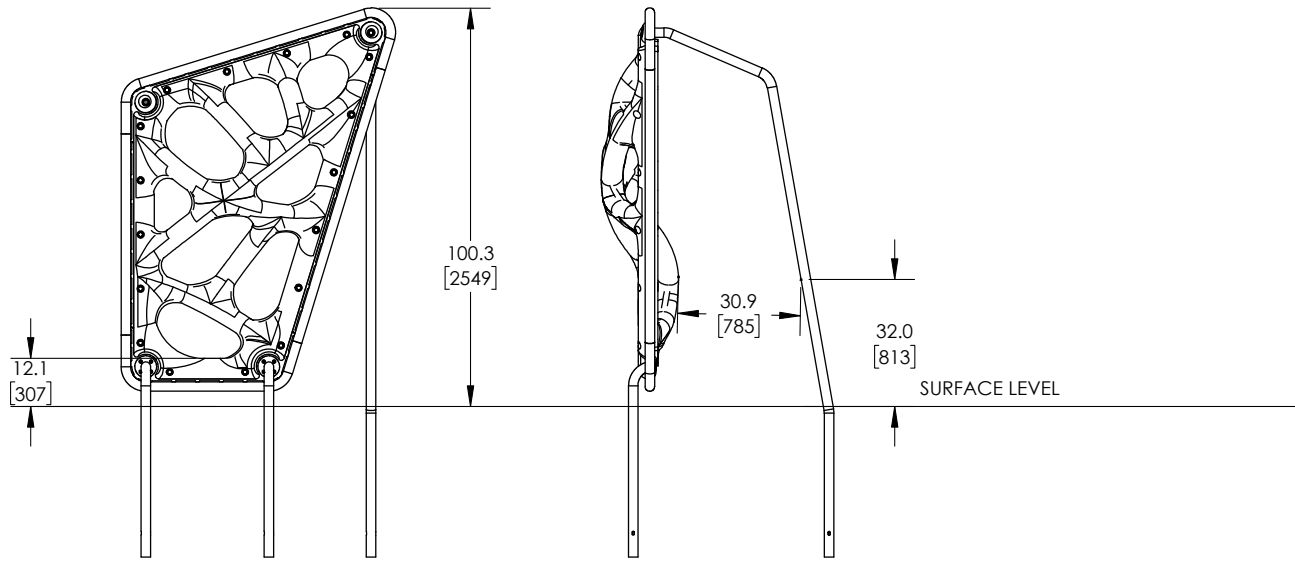
Installation Instructions

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

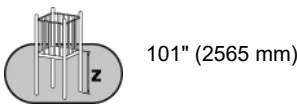
Top View



Footing Diagram



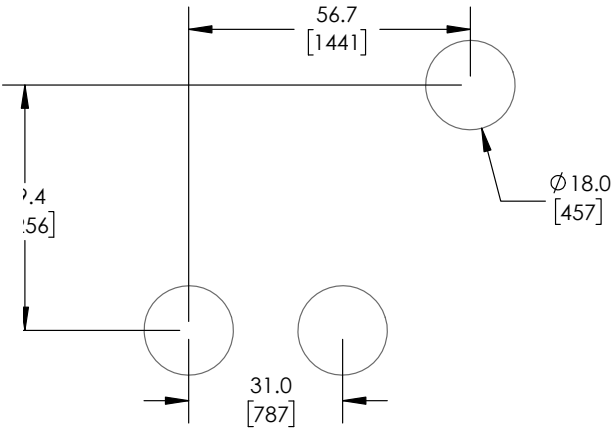
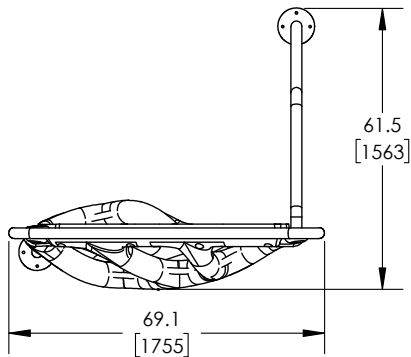
Elevation Views
ZZUN6840



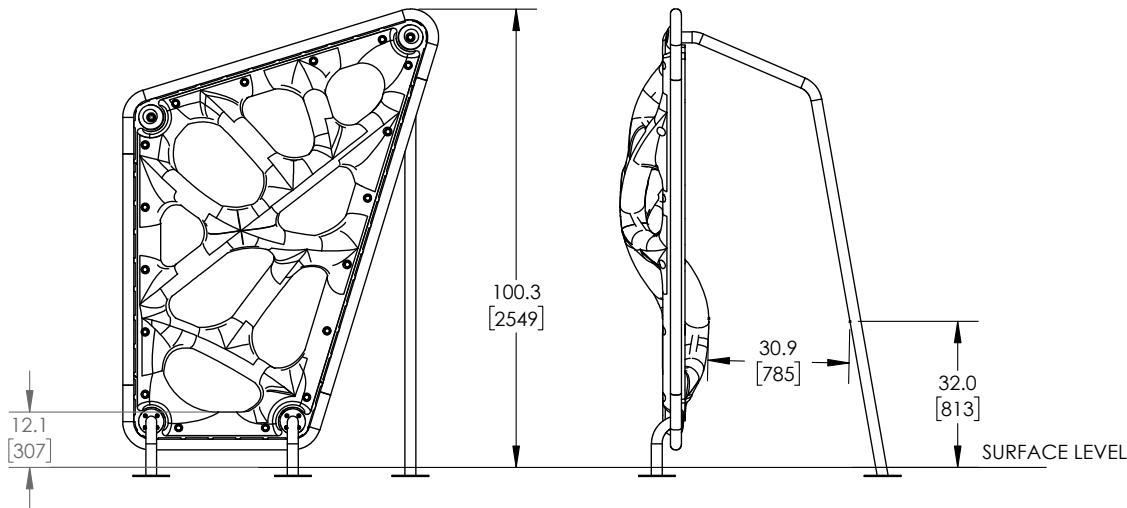
Installation Instructions

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

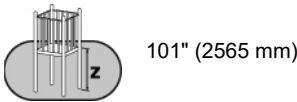
Top View



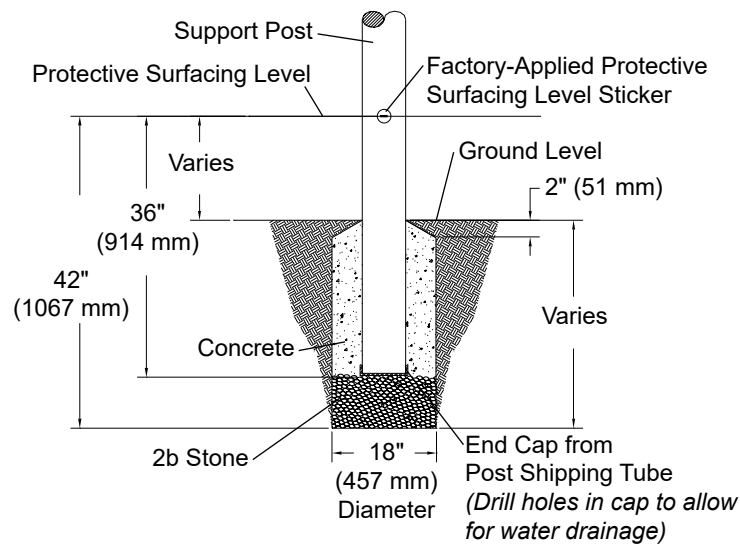
Footing Diagram



Elevation Views
ZZUN6840S



Installation Instructions



Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.

- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase bottom of support post in concrete. Place post directly on packed stone.

- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.

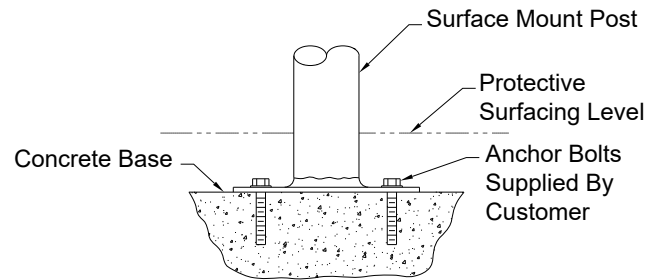
For example:

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

- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions



Surface Mount Footing Detail

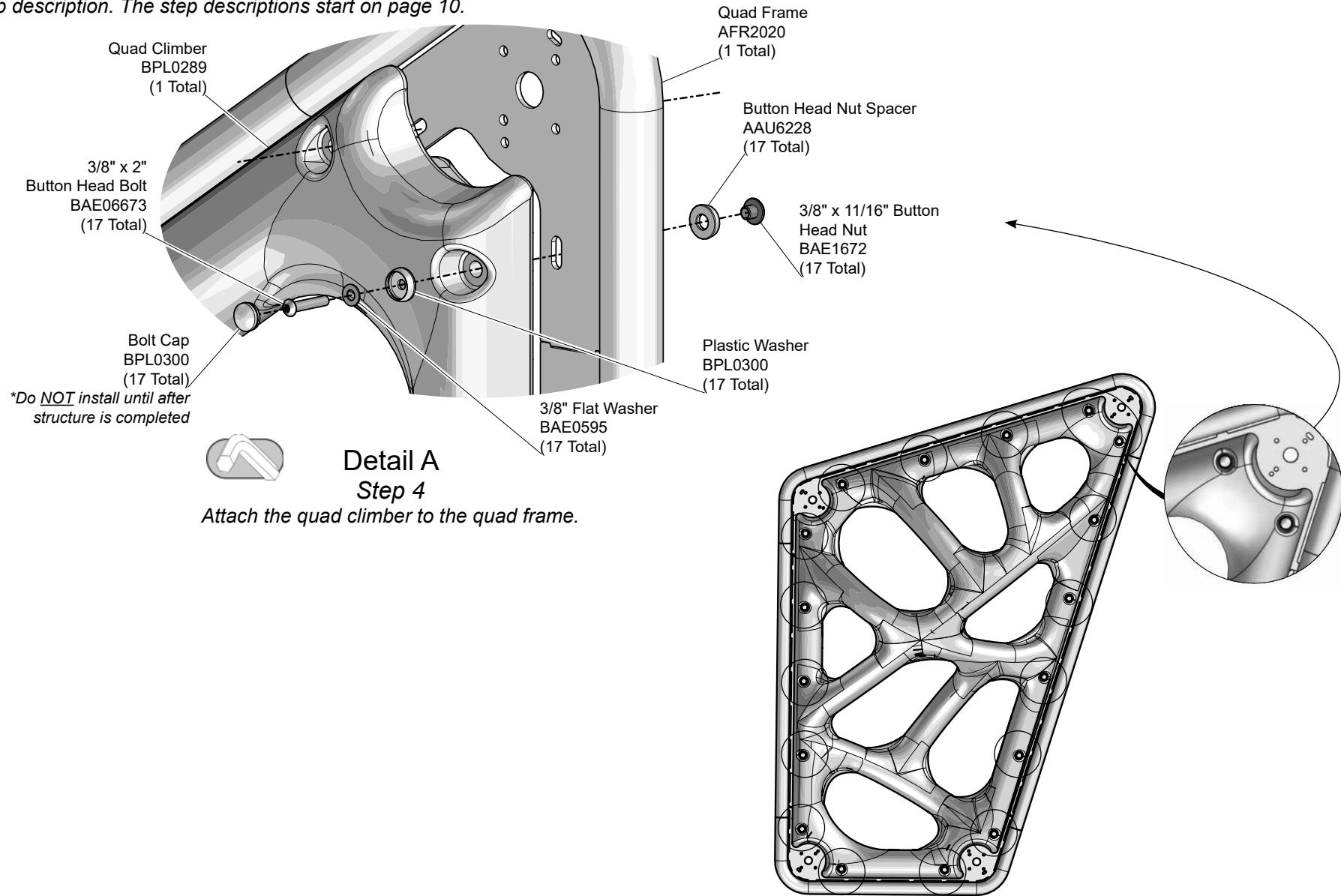
FOOTING NOTES

- All support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in [Handbook for Public Playground Safety](#) published by U. S. Consumer Product Safety Commission.

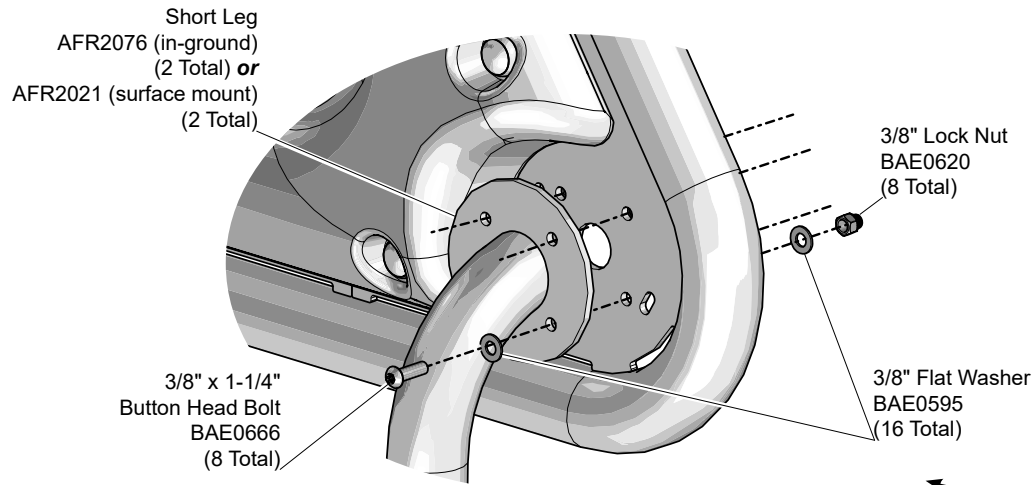
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 10.

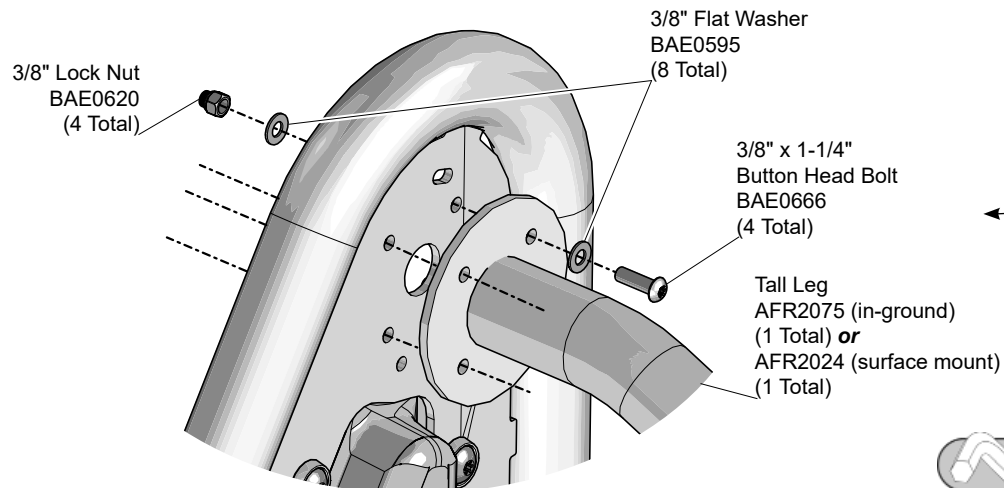


Installation Instructions



Detail B-1

Attach the short legs to the roto side of the quad frame.



Detail B-2

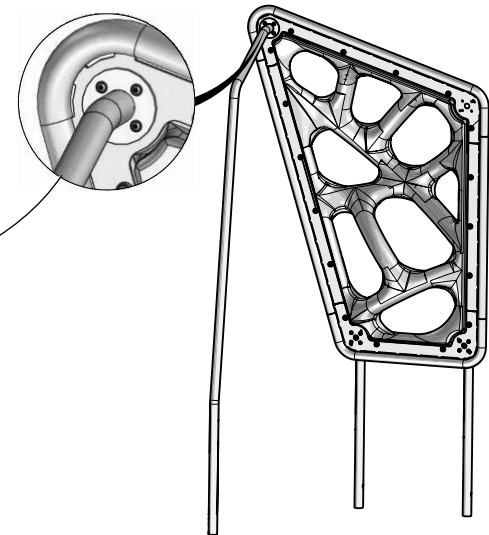
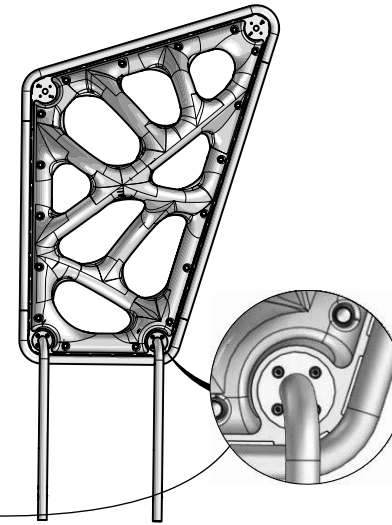
Attach the short legs to the frame side of the quad frame.



Details B-1 and B-2

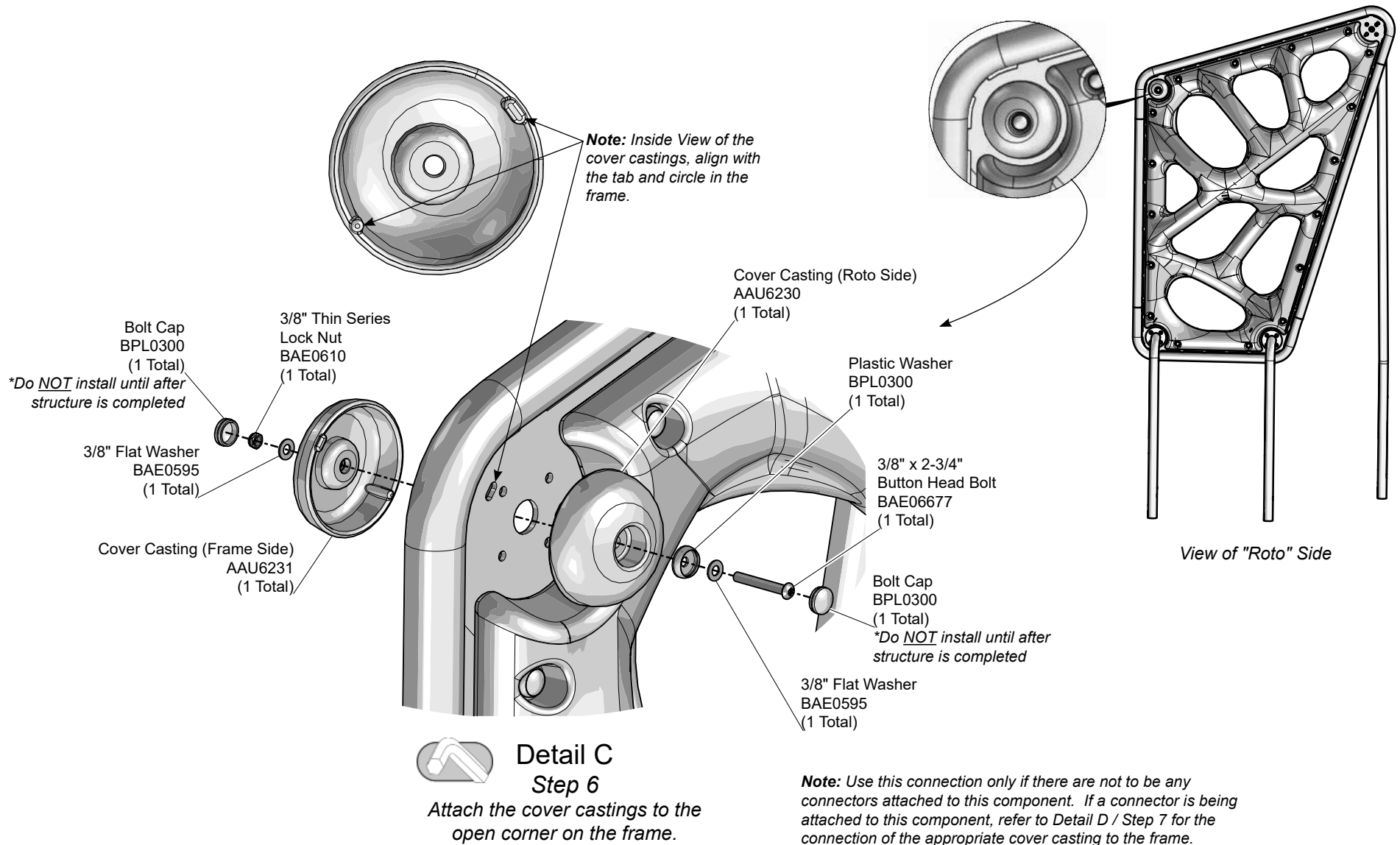
Step 5

Attach the short and tall legs to the quad frame.

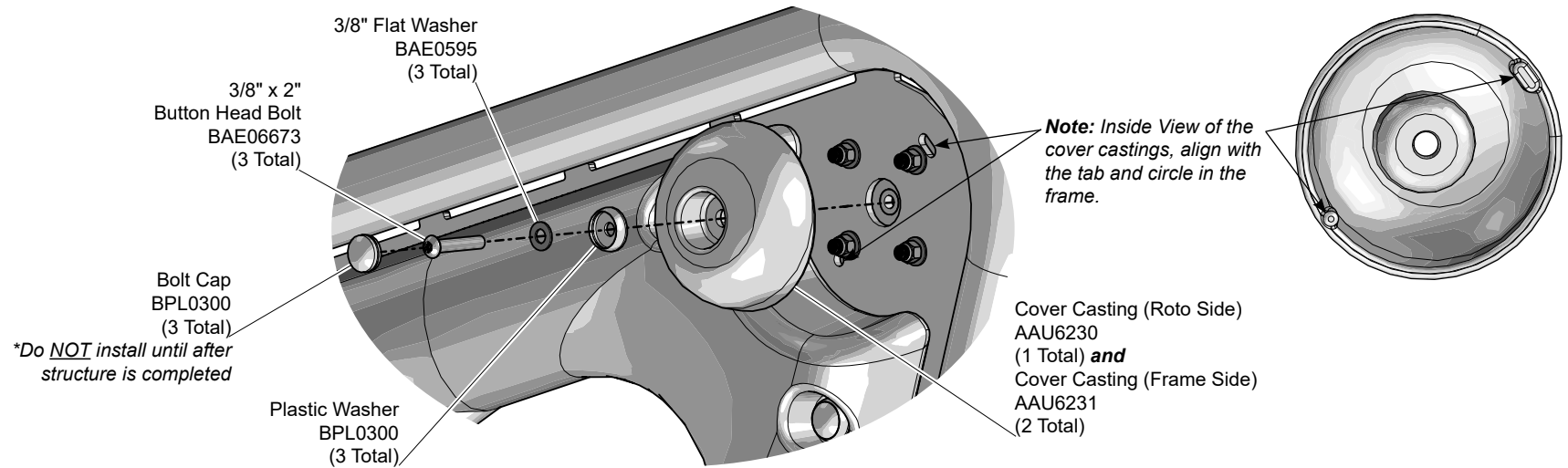


Installation Instructions

Important Note: Refer to Master Drawing Layout before installing cover castings to check for connector configuration. If connectors are needed, refer to the appropriate install instruction.



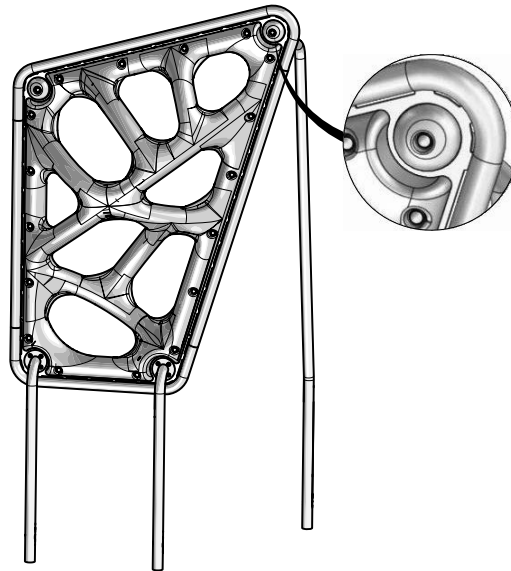
Installation Instructions



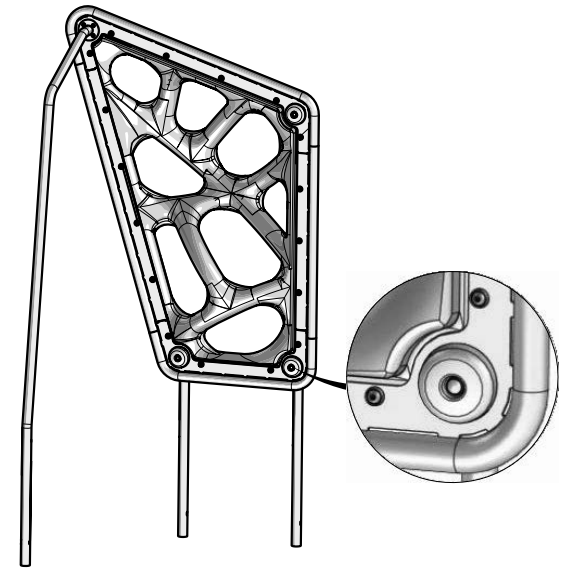
Detail D Step 7

Attach the cover castings to the quad frame.

Important Note: Refer to Master Drawing Layout before installing cover castings to check for connector configuration. If connectors are needed, refer to the appropriate install instruction.



View of "Roto" Side



View of "Frame" Side

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Support Post and Surface Mount Footing Details** on pages 4 and 5 of this installation document.

Step 4: Attach the quad climber to the quad frame. See **Detail A**. Position the quad climber in the middle of the quad frame. Align the holes, and attach as shown.

Note: Do not install the bolt caps until Step 9.

Step 5: Attach the short and tall legs to the quad frame. See **Details B-1 and B-2**. Position the short legs against the bottom of the roto side of the quad frame, align the holes and attach as shown in **Detail B-1**. Flip the quad frame over to the other side. Position the tall leg against the top of the frame side of the quad frame, align the holes, and attach as shown in **Detail B-2**.

Important Note: Refer to Master Drawing Layout before installing cover castings to check for connector configuration. If connectors are needed, refer to the appropriate install instruction.

Step 6: Attach the cover castings to the open corner on the frame. See **Detail C**. Position the cover castings against the frame, aligning the hole, and attach as shown.

Note: Do not install the bolt caps until Step 9.

Step 7: Attach the cover castings to the quad frame. See **Detail D**. Position the appropriate cover casting against the frame, aligning the hole in the casting with the hole in the back of the legs. Attach as shown.

Note: Do not install the bolt caps until Step 9.

Final Details.

Step 8: Place the climber in or on its footings. Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

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

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

Step 9: Select plastic bolt caps and press into the plastic washers. See **Details A, C and D**. The bolt caps install more easily when they are warm.

Step 10: Apply the age appropriate label to the equipment in a visible location.

UN6840 - MODPODS QUAD - VERTICAL WALL IN-GROUND MOUNT

PART NO.	DESCRIPTION	QTY.
AAU6228	SPACER - BUTTON HEAD NUT	17
AAU6230	MODPODS COVER CASTING - ROTO SIDE	2
AAU6231	MODPODS COVER CASTING - FRAME SIDE	3
AFR2020	FRAME - MODPODS QUAD	1
AFR2075	LEG - MODPODS QUAD	1
AFR2076	LEG - MODPODS SHORT	2
BAE0595	WASHER - 3/8" SAE FLAT	46
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - SS	12
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - SS	20
BAE06677	BOLT - 3/8"-16 x 2.75" BUTTON HEAD - SS	1
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	17
BPL0289	CLIMBER - MODPODS QUAD	1
BPL0300	CAP - 3/8" BOLT	22
ASY0590	LABEL KIT - 5 YRS - 12 YRS ASTM, CSA, FRENCH	1

UN6840S - MODPODS QUAD - VERTICAL WALL SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU6228	SPACER - BUTTON HEAD NUT	17
AAU6230	MODPODS COVER CASTING - ROTO SIDE	2
AAU6231	MODPODS COVER CASTING - FRAME SIDE	3
AFR2020	FRAME - MODPODS QUAD	1
AFR2021	LEG - MODPODS SHORT	2
AFR2024	LEG - MODPOD QUAD	1
BAE0595	WASHER - 3/8" SAE FLAT	46
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - SS	12
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - SS	20
BAE06677	BOLT - 3/8"-16 x 2.75" BUTTON HEAD - SS	1
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	17
BPL0289	CLIMBER - MODPODS QUAD	1
BPL0300	CAP - 3/8" BOLT	22
ASY0590	LABEL KIT - 5 YRS - 12 YRS ASTM, CSA, FRENCH	1



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intentionally left blank.



Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect 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 castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material for rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

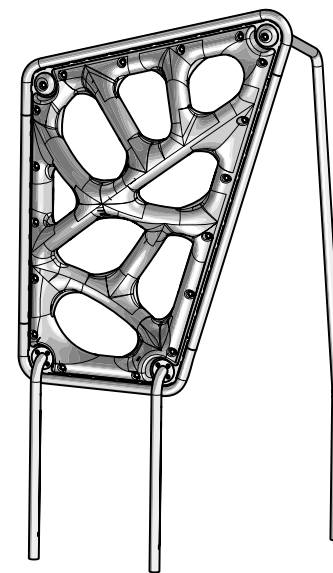
Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Replacement Parts

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

Equipment Maintenance Universal Models UN6840 and UN6840S ModPods Quad - Vertical In-ground and Surface Mount



Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

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

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

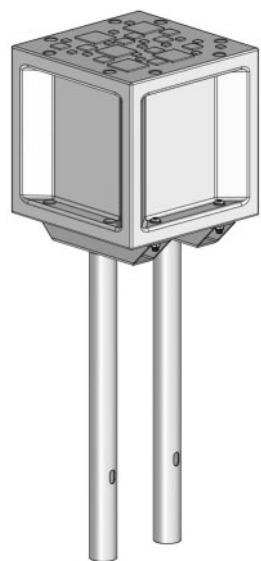
Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

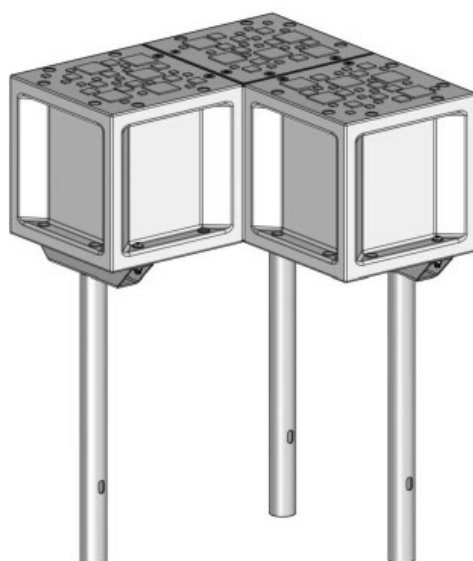
Item in Question	Description of Problem	Corrective Action	Date

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





ZZUN7097



ZZUN7099

Assembly View (representative models)

Part Number	Installation Time	Concrete Required
ZZUN7097	0.5 man-hours	0.03 cubic yard (0,02 cubic meters)
ZZUN7097S	0.25 man-hours	N/A
ZZUN7099	1 man-hour	0.09 cubic yard (0,06 cubic meters)
ZZUN7099S	0.5 man-hours	N/A
ZZUN7118	0.25 hours	N/A
ZZUN7119	0.25 hours	N/A
ZZUN7126	0.25 hours	N/A

Installation Instructions

Universal Models ZZUN7097, ZZUN7097S, ZZUN7099, ZZUN7099S, ZZUN7118, ZZUN7119 and ZZUN7126

Climbing Squares Layout #1 and #3

In-Ground, Surface Mount and *Surface Mount for 4.25 in. Surfacing

Installation Preparation

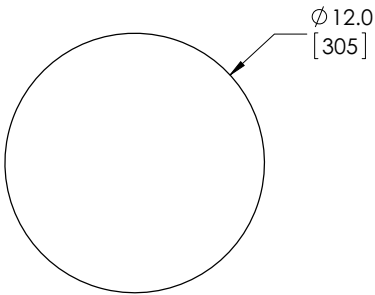
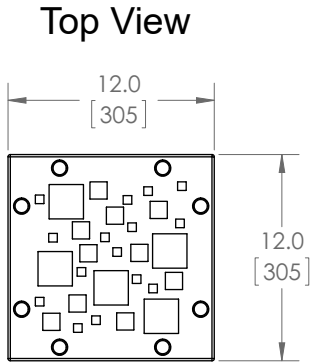
Recommended Crew: Two (2) adults
 Installation Time: Refer to the table at left
 Concrete Required (in-ground): Refer to the table at left
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

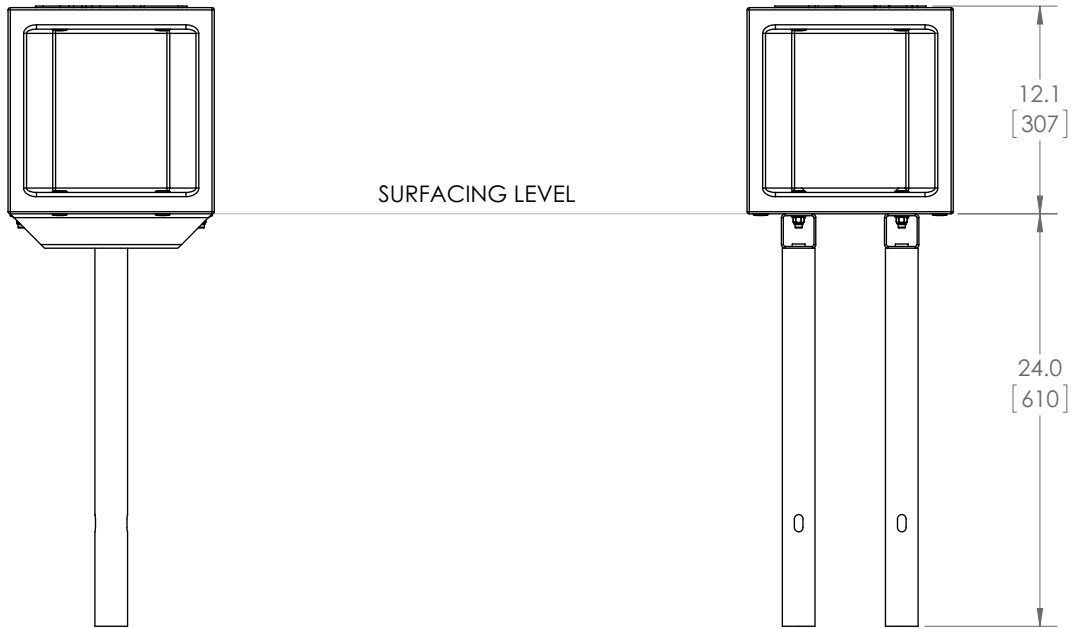
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

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



Footing Diagram

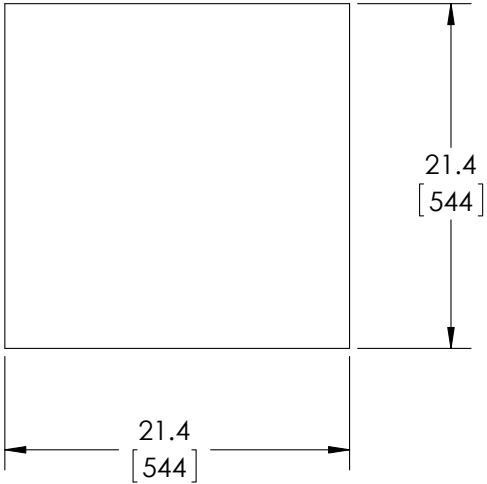
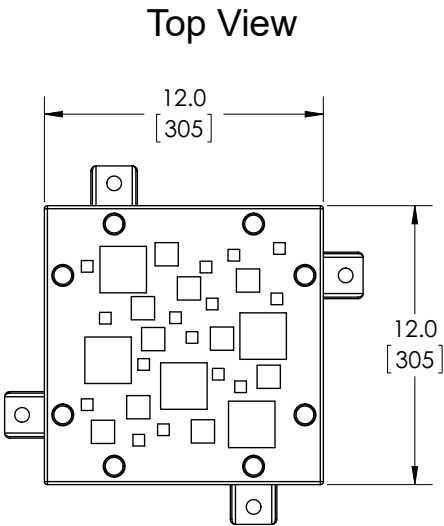


Elevation Views
ZZUN7097

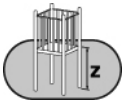
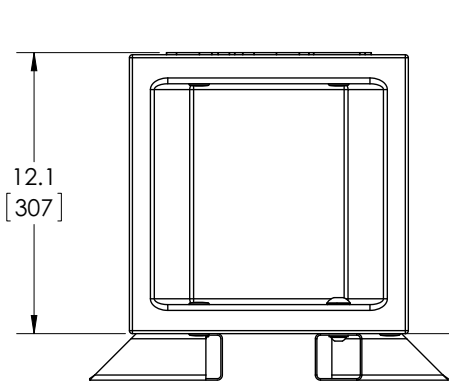


Installation Instructions

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

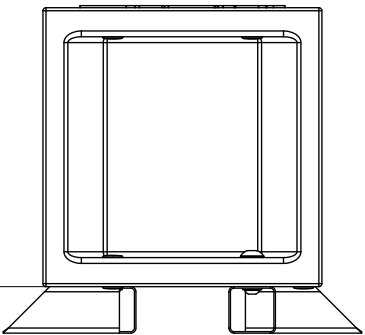


Footing Diagram



12.1" (307 mm)

SURFACING LEVEL



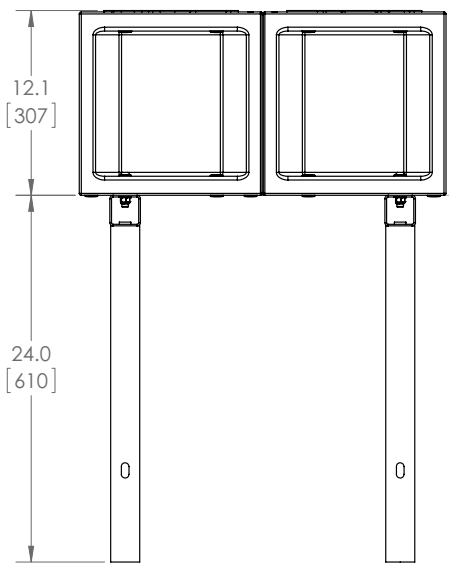
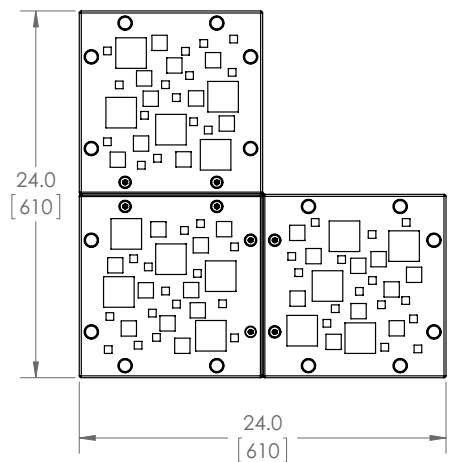
Elevation Views
ZZUN7097S



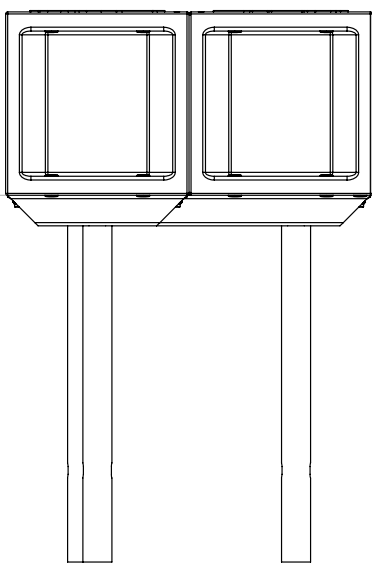
Installation Instructions

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

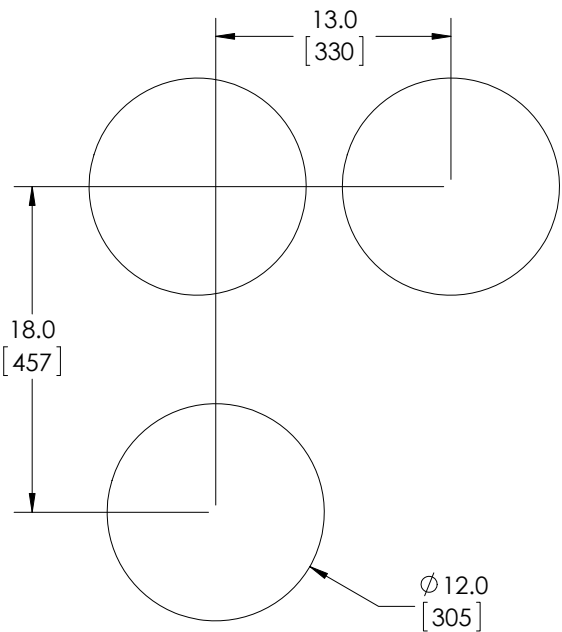
Top View



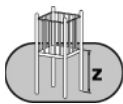
SURFACING LEVEL



Elevation Views
ZZUN7099



Footing Diagram



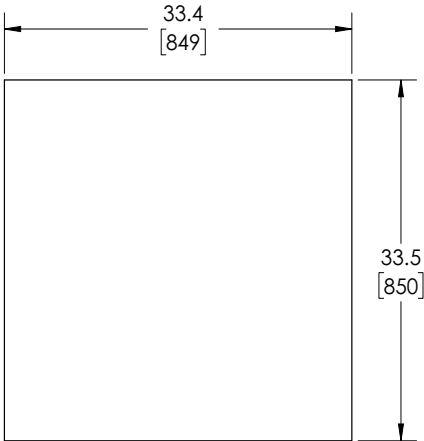
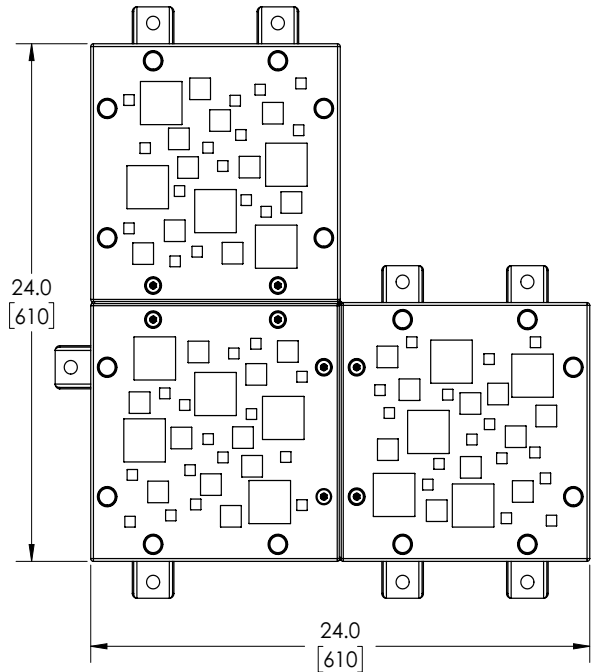
12.1" (307 mm)



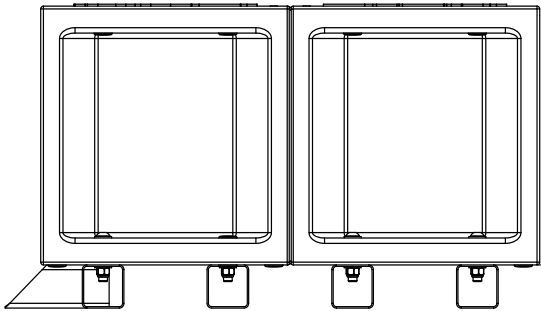
Installation Instructions

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

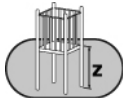
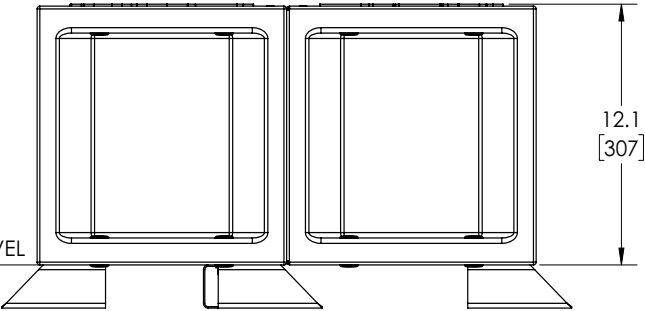
Top View



Footing Diagram



SURFACING LEVEL

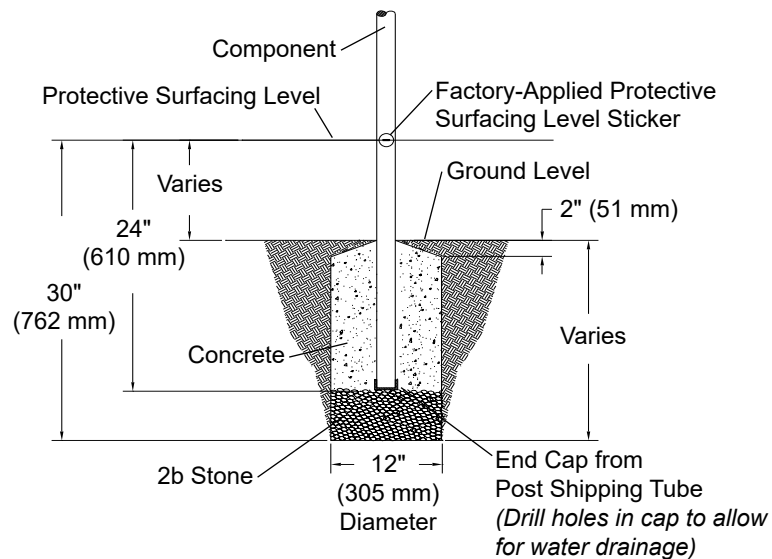


12.1" (307 mm)

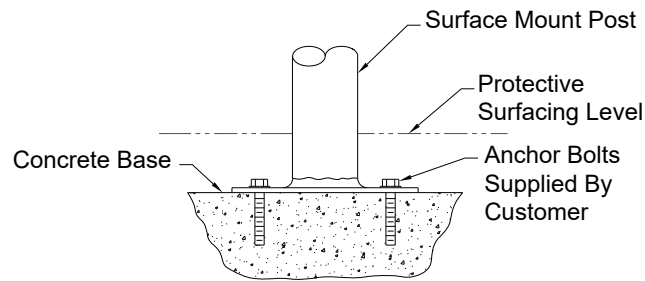
Elevation Views
ZZUN7099S



Installation Instructions



Component Footing Detail (ASTM/CSA)



Surface Mount Footing Detail

FOOTING NOTES

- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

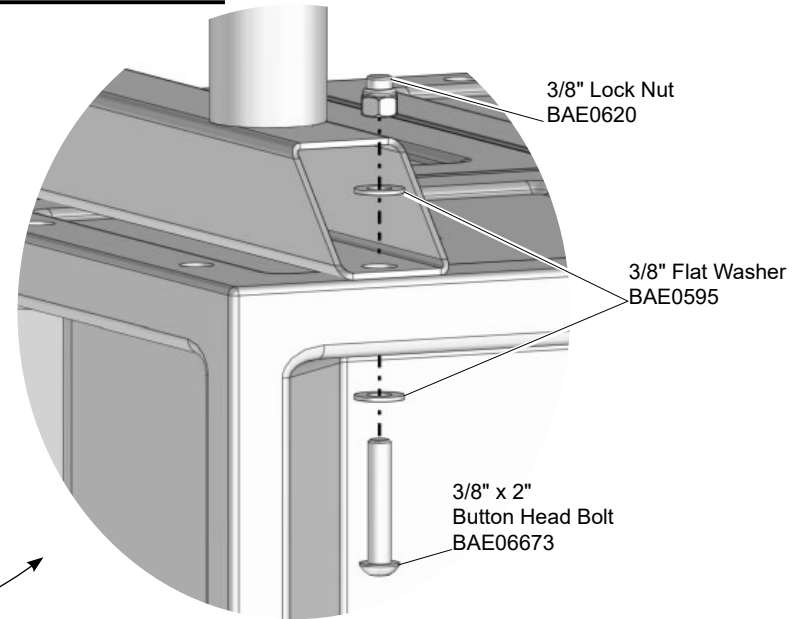
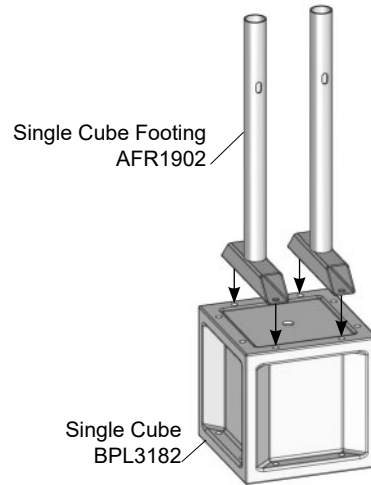
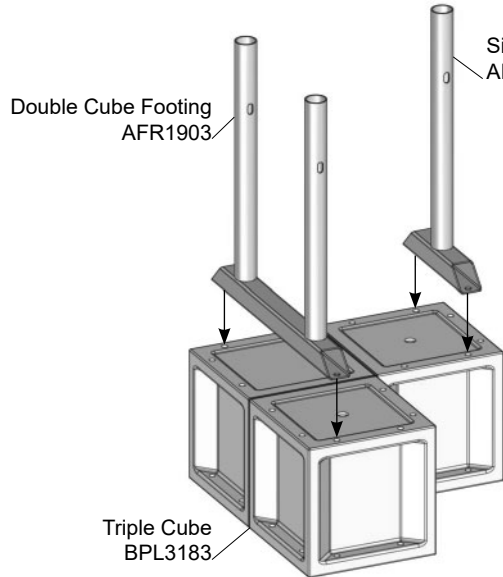
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on 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.
- Comparison of protective surfacing materials is available in Handbook for Public Playground Safety published by U. S. Consumer Product Safety Commission.

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

Installation Instructions

Common Climbing SquaresConnections



Connection A

(In-Ground Model Only)

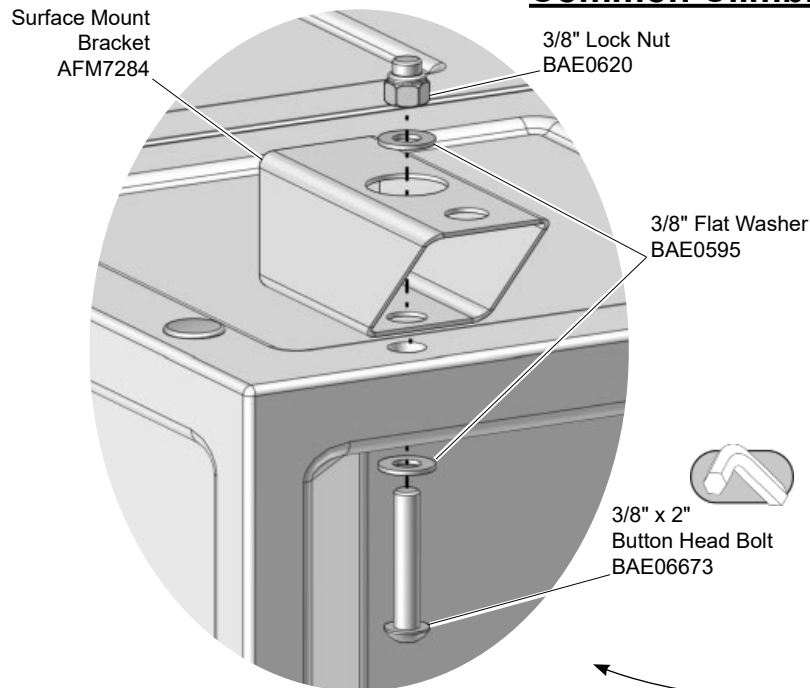
Attach the footing legs to the bottom of the cube assembly.



In-ground Mount Only: Attach the footing legs to the bottom side of the cubes (the bottom is the "non-treaded" side). The Triple Cube will require one double cube footing and one single cube footing and the Single Cube will require two single cube footings.

Installation Instructions

Common Climbing Squares Connections

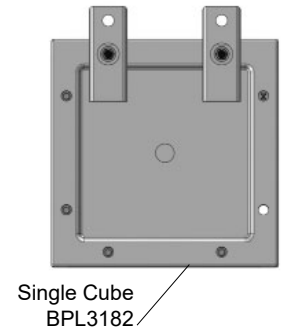
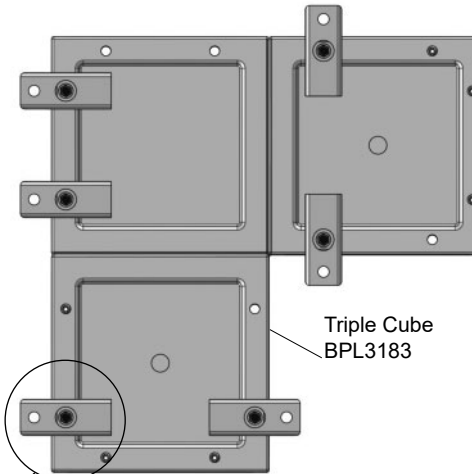


Connection B

Surface Mount Only

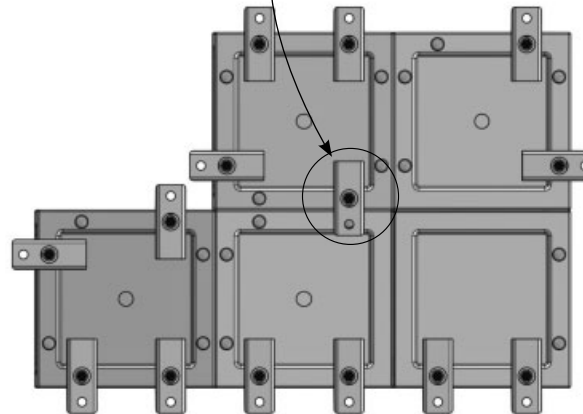
Attach the surface mount brackets to the bottom of the cubes.

Location of the brackets may vary depending on the cube assembly. Refer to the installation instruction for your specific layout. These views are for reference only.



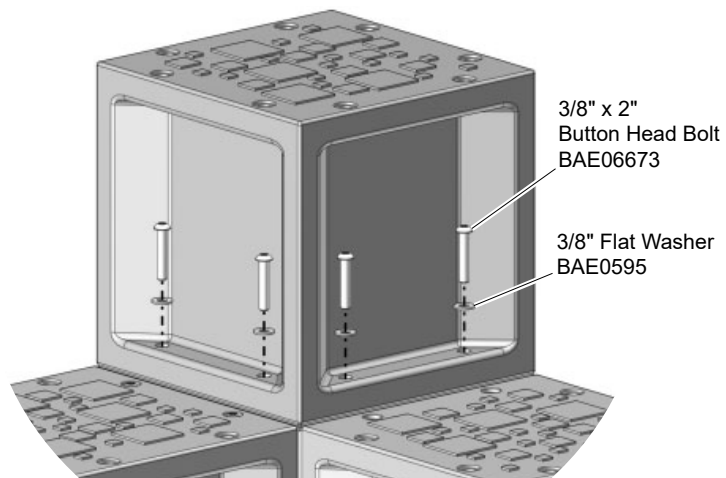
Surface Mount Only: Attach the surface mount brackets to the bottom side of the cubes (the bottom is the "non"treaded" side). The angled edge of the brackets should be pointing to the outside.

Note: There may be a surface mount bracket that could be located in the middle of the Climbing Squares configuration, that bracket is not required to be anchored to the concrete base, however it must be installed to support the cubes.



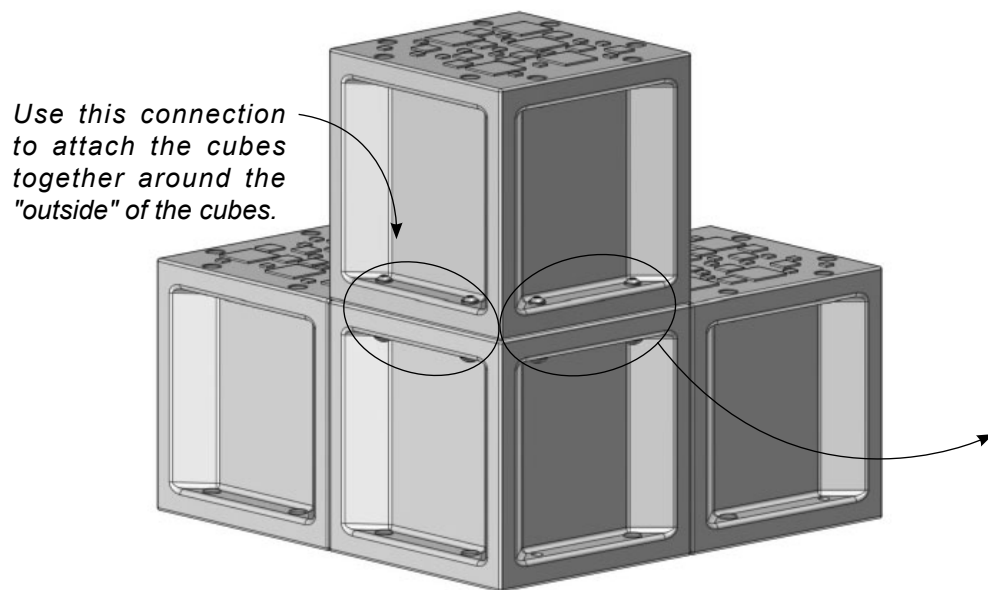
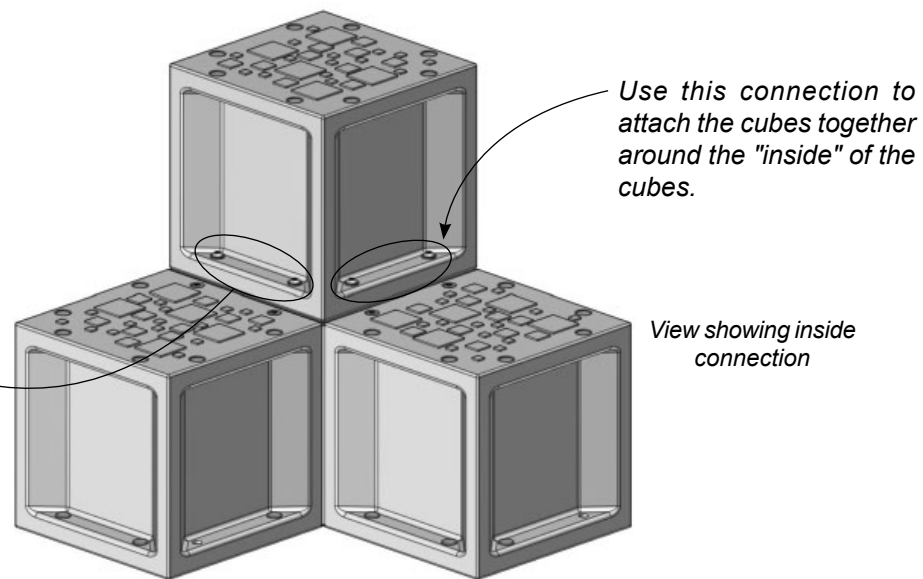
Installation Instructions

Common Climbing SquaresConnections

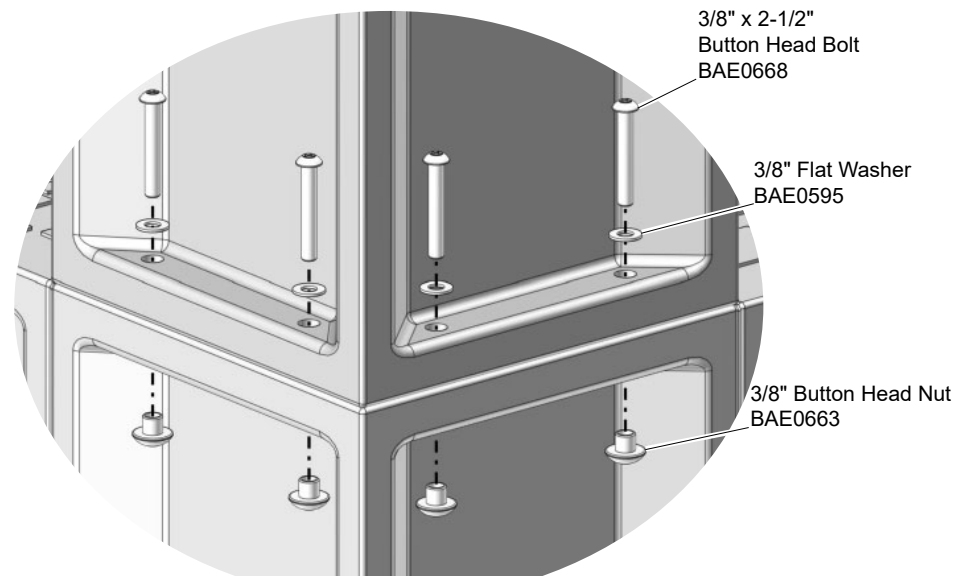


Connection C

Inside connection for cube to cube.



View showing outside connection

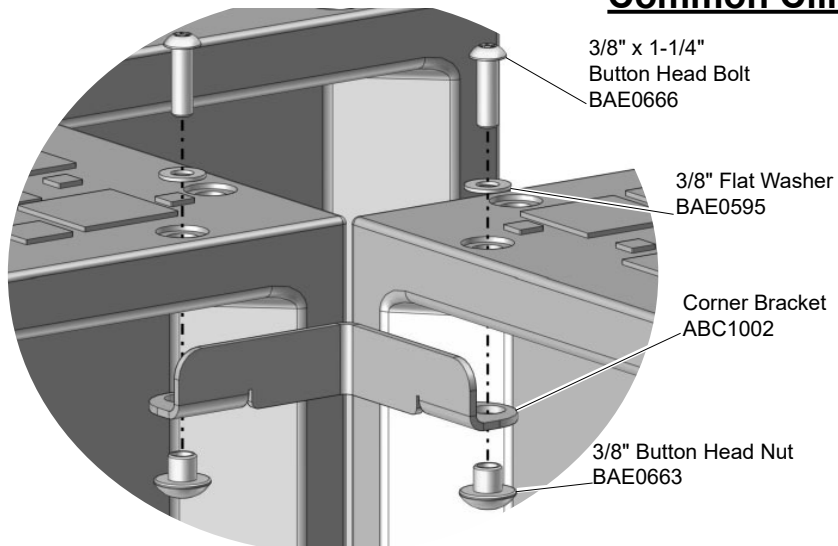


Connection D

Outside connection for cube to cube.

Installation Instructions

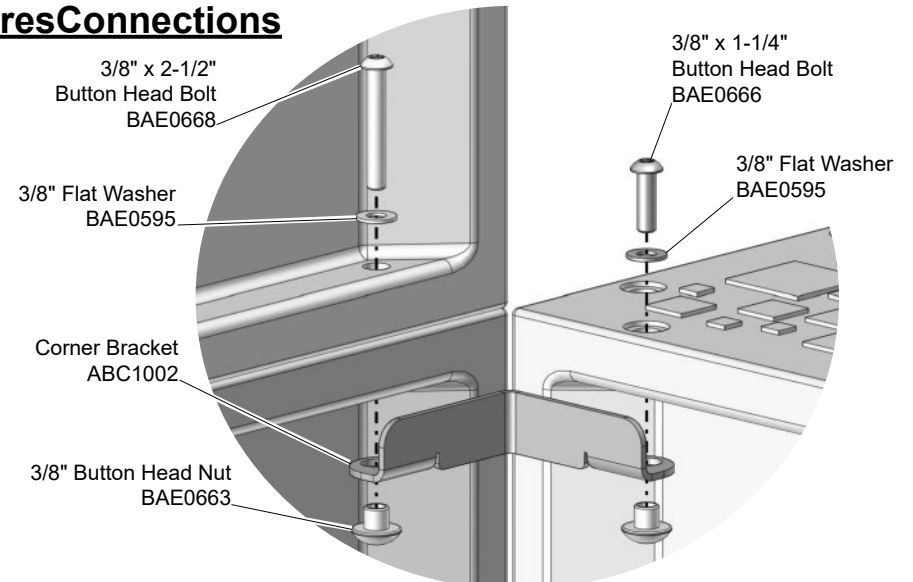
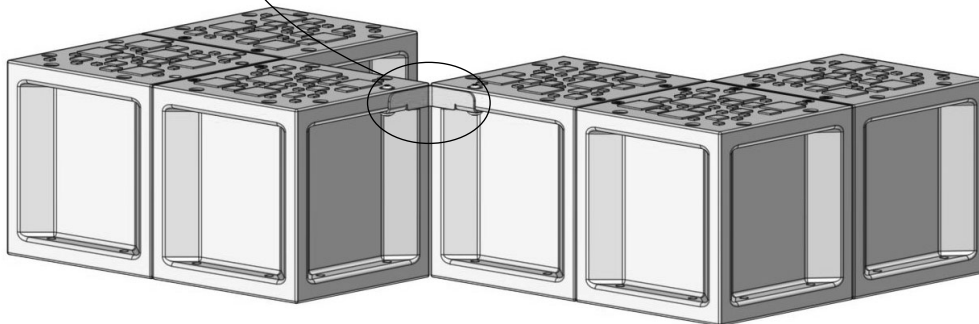
Common Climbing Squares Connections



Connection E

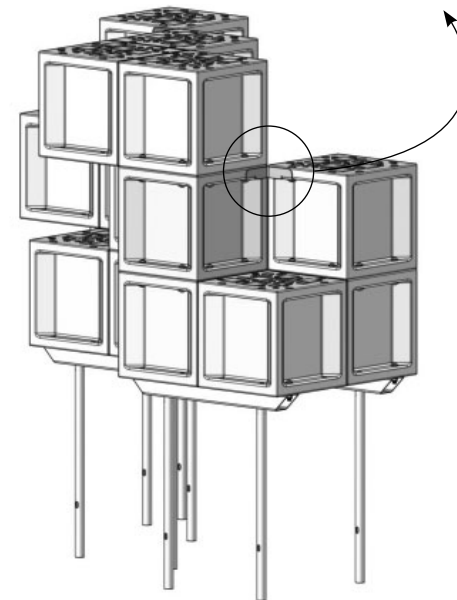
Attach the corners of the cubes using the corner bracket.

Note: The corner to corner bracket should be used to attach cubes in the same layer that are facing corner to corner at the highest exposed level.



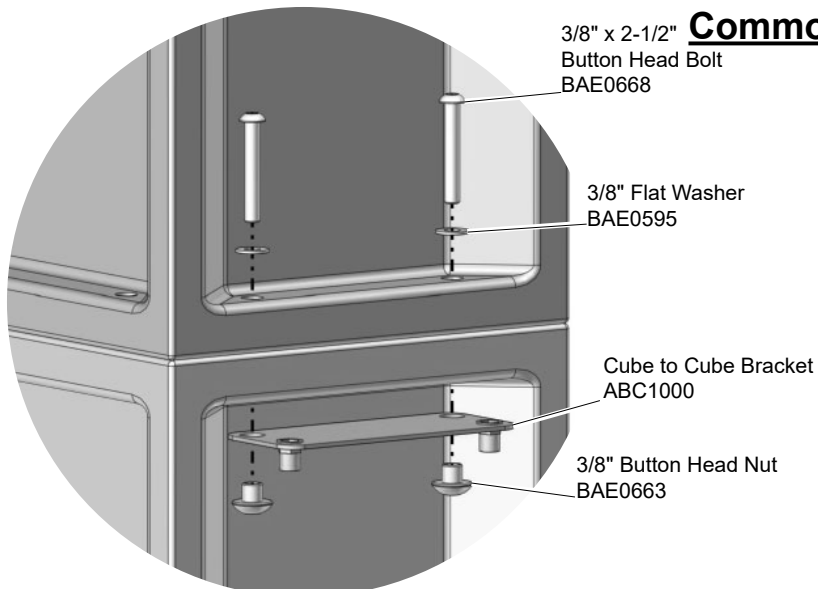
Connection F

Attach the corners of the cubes using the corner bracket. Use this connection if there is another cube to be attached on top.



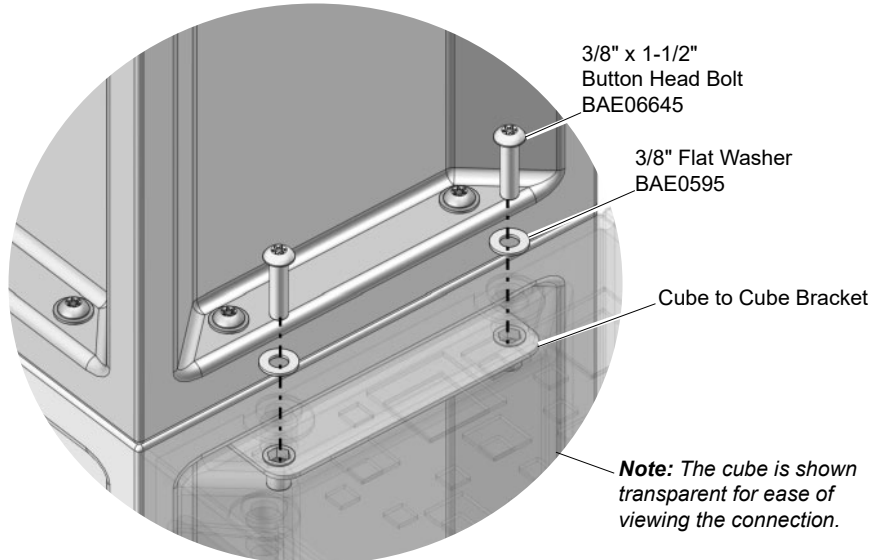
Installation Instructions

Common Climbing Squares Connections



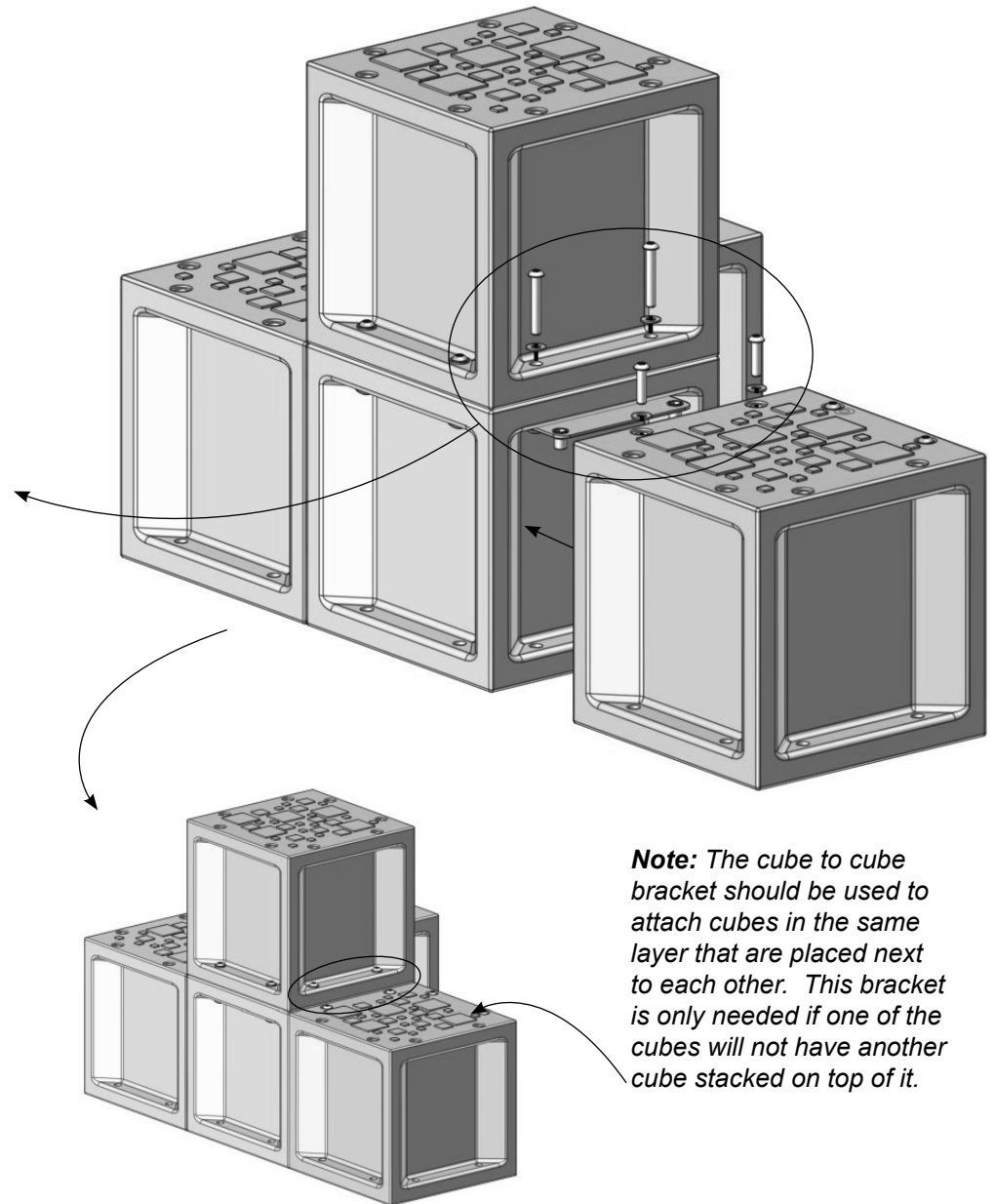
Connection G-1

Attach the cube to cube bracket to the underside of the cube.



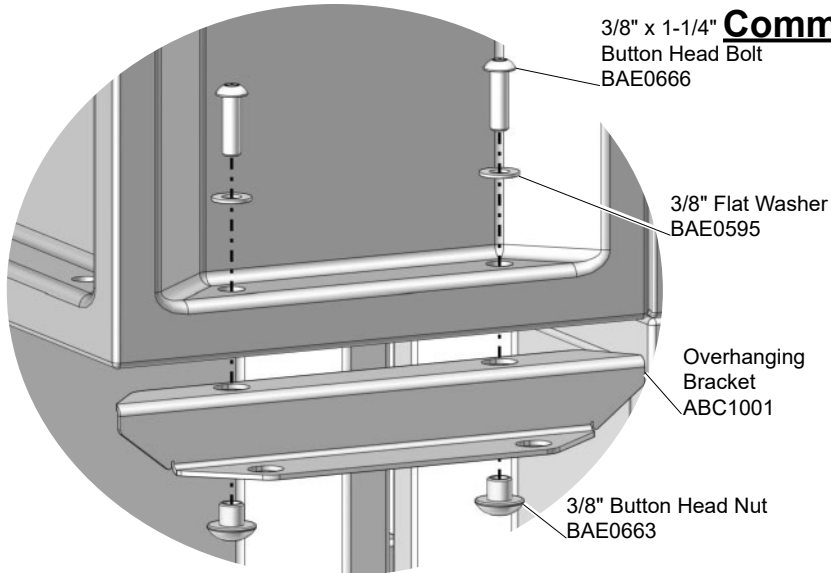
Connection G-2

Place another cube over the bracket and attach as shown.



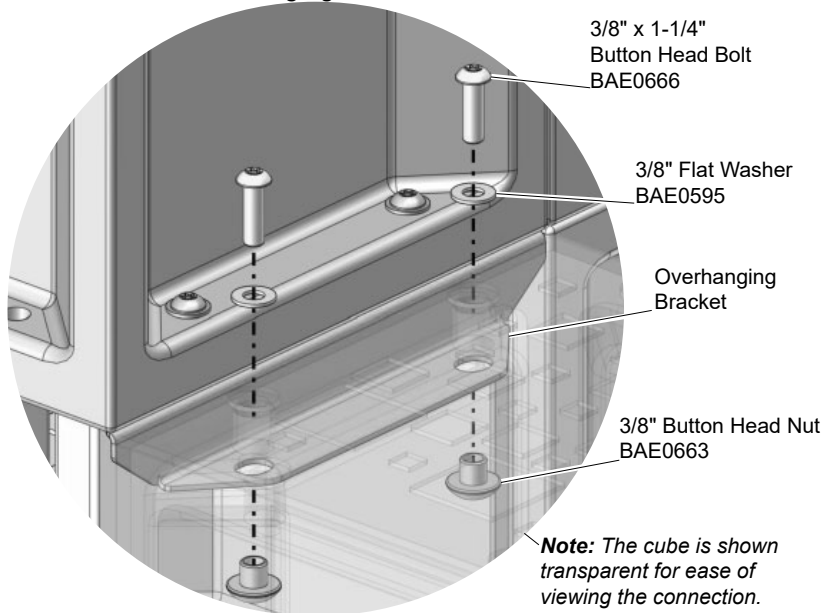
Installation Instructions

Common Climbing Squares Connections



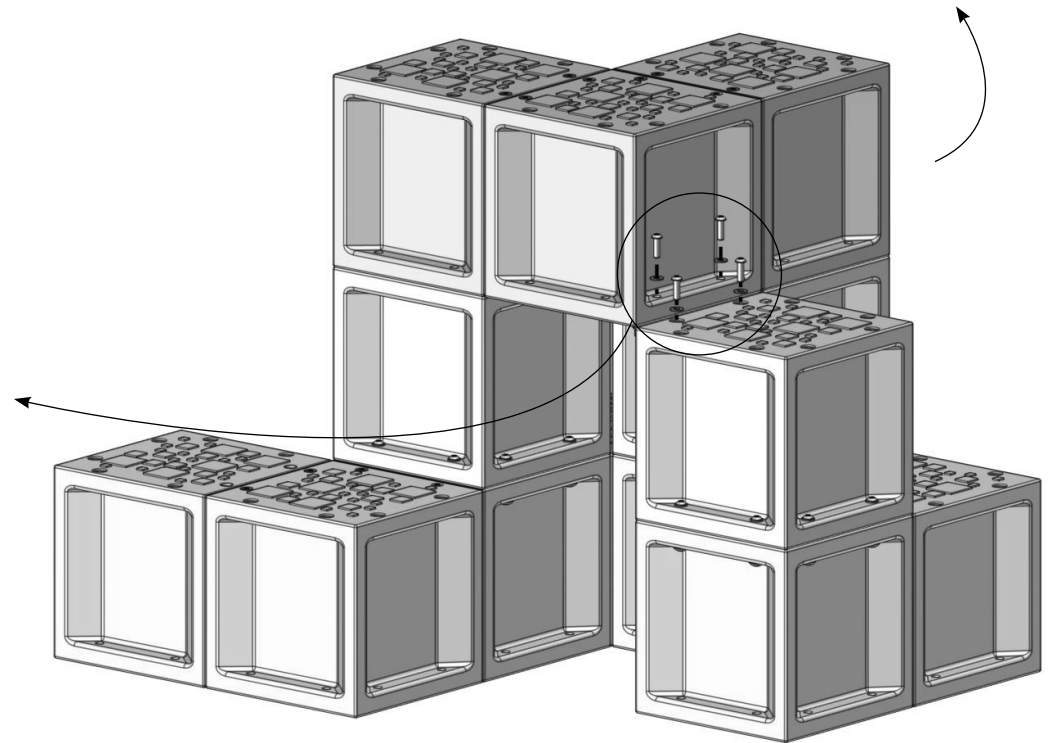
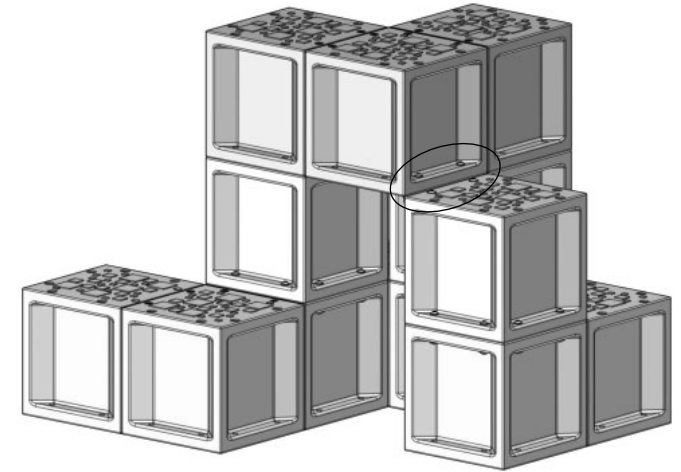
Connection H-1

Attach the overhanging bracket to the underside of the cube.



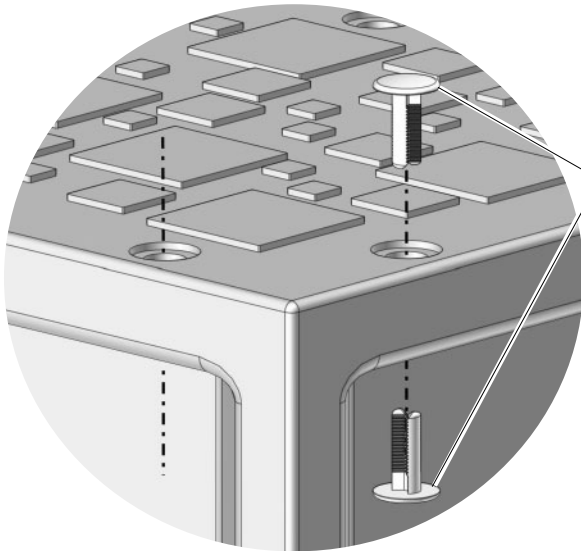
Connection H-2

Place another cube over the bracket and attach as shown.



Installation Instructions

Common Climbing SquaresConnections

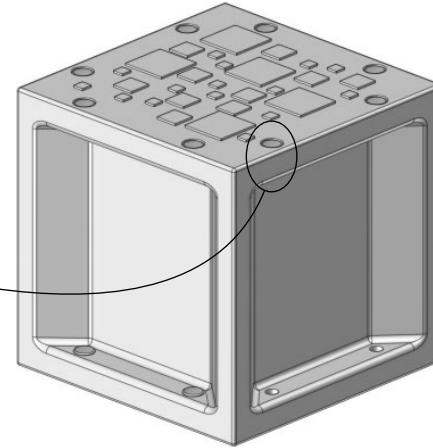


Ratchet Rivet
BPL3193

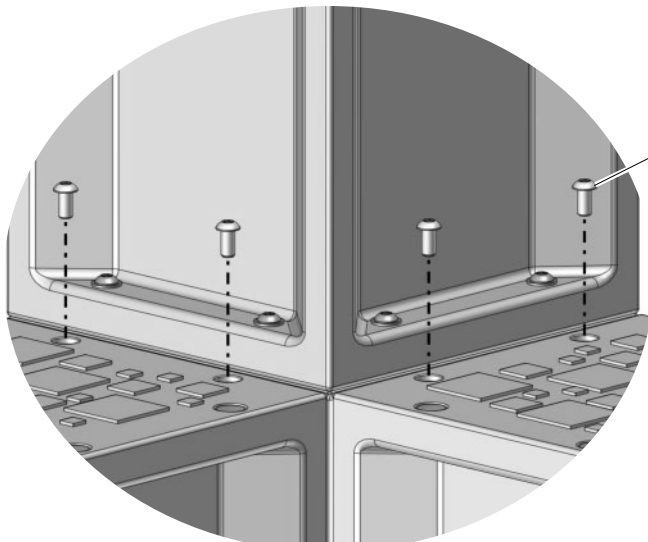
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Connection J

Plug empty holes on cubes.



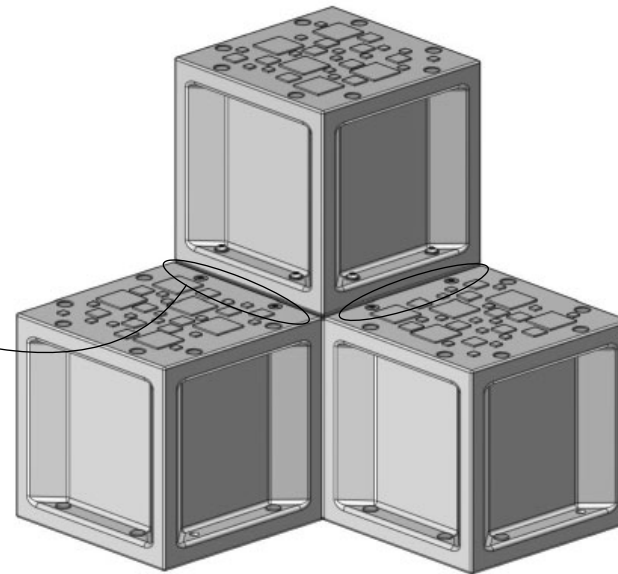
The ratchet rivets are used to fill any empty hole (around the outside of the cube) when done assembling the cubes. Place a rivet on the top and bottom of each empty hole and press together until flush with the cube.



3/8" x 3/4"
Button Head Bolt
BAE0659

Connection K

Fill inserts on top of cubes.

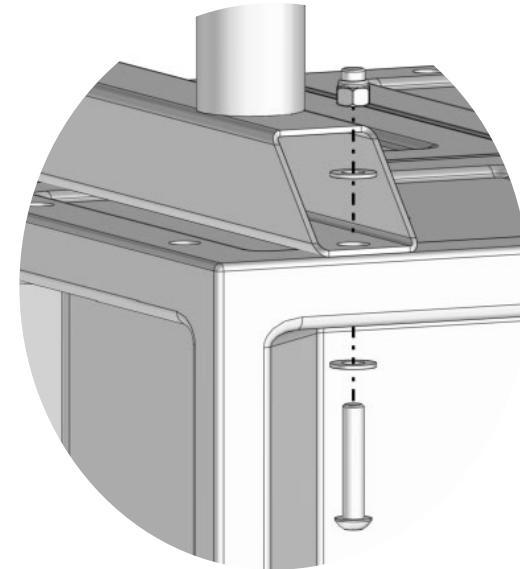
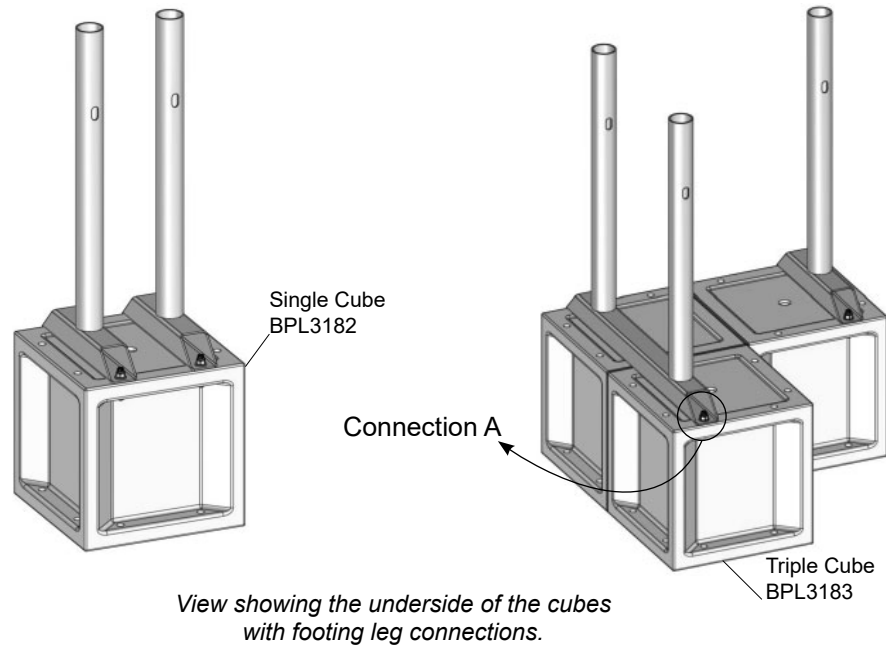


Fill any empty inserts on the top of the Triple Cubes when done assembling the cubes. The inserts are located around the inside of the Triple Cubes.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 17.

Important Note: Reference the Master Drawing for the layout / configuration of the cubes.



Connection A

Step 4

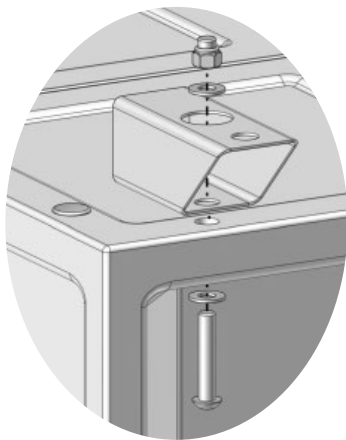
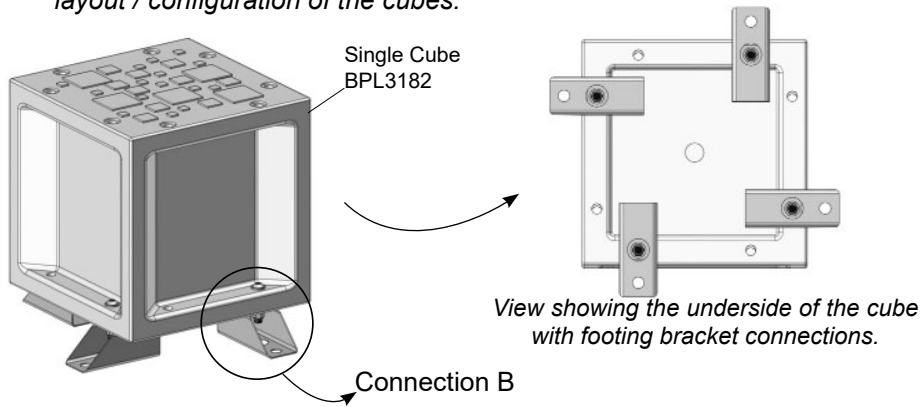
(In-ground Mount Only)

Attach the footing legs to the bottom of the cubes.

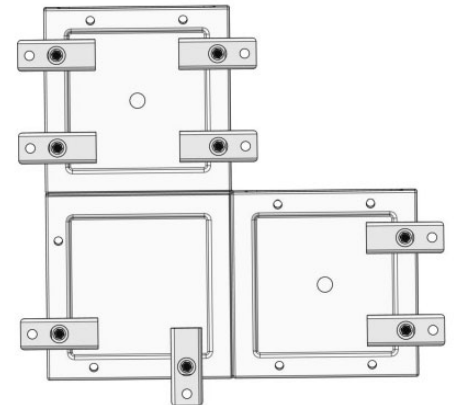
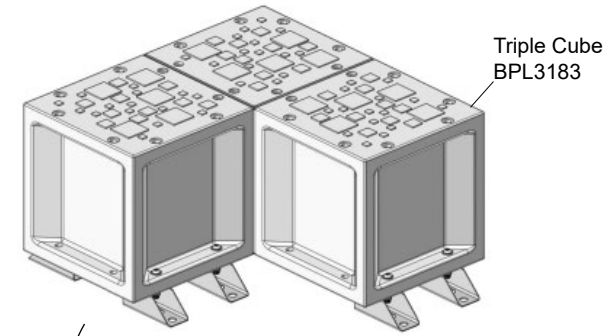


Installation Instructions

Important Note: Reference the Master Drawing for the layout / configuration of the cubes.



Connection B



View showing the underside of the cube
with footing bracket connections.

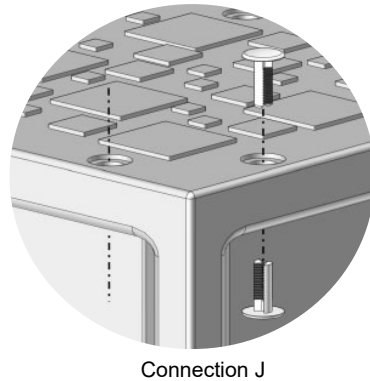
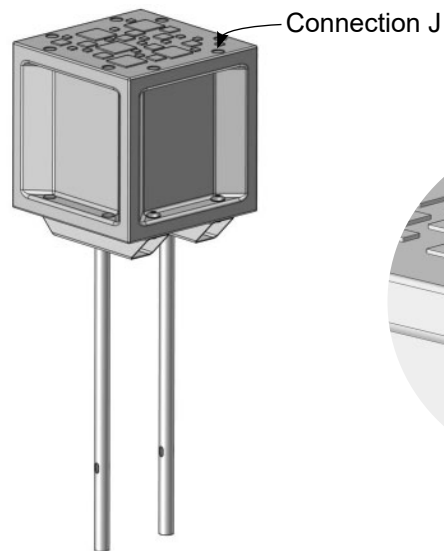
Step 5 (Surface Mount Only)



Attach the footing brackets to the bottom of the cubes.

Note: There may be a surface mount bracket in the middle of the Climbing Squares configuration that is not required to be anchored to the concrete base. It must be installed to support the cubes.

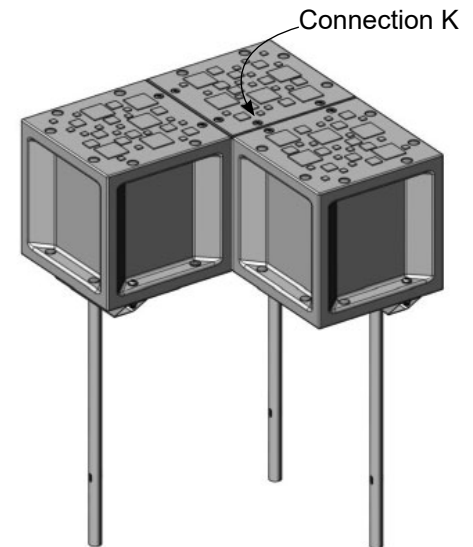
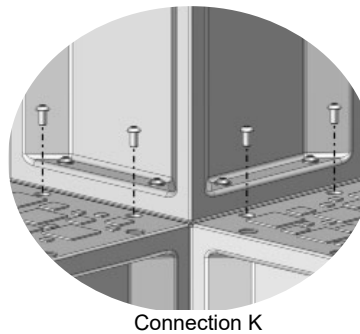
Installation Instructions



Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Step 6

Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes.



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing Detail or Surface Mount Footing Detail** on page 6 of this installation document.

Step 4 (In-ground Mount Only): Attach the footing legs to the 1st layer of cubes. See **Page 13, Connection A**. Turn the cubes upside down, position the footing legs on the cubes, align the holes, and attach as shown. Refer to **Page 13** for the placement of the footing legs.

Step 5 (Surface Mount Only): Attach the footing brackets to the 1st layer of cubes. See **Page 14 / Connection B**. Turn the cubes upside down, position the brackets on the cubes, aligning the holes. The angled edges of the surface mount brackets should be pointing to the outside. Attach as shown. See **Page 14** for placement of the footing brackets.

Step 6: Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes. See **Page 15**. To fill the empty holes on the outside rim of the cubes, place a ratchet rivet in the top and bottom of the hole and press together until flush with the cube (See **Connection J**). To fill the empty holes on the inside holes on the tops of the Triple Cubes and insert the bolts in the holes as shown (See **Connection K**).

Final Details.

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

Torque Specifications:

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

Step 8 (In-ground Mount Only): Plumb and level entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 9 (Surface Mount Only): Plumb and level entire component. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

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

ZZUN7097 - CLIMBING SQUARES LAYOUT #1

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3182	SINGLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	24

ZZUN7097S - CLIMBING SQUARES LAYOUT #1 SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3182	SINGLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	24

ZZUN7099 - CLIMBING SQUARES LAYOUT #3

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	1
AFR1903	FOOTING - DOUBLE CUBE	1
BAE0595	WASHER - 3/8" SAE FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	56

ZZUN7099S - CLIMBING SQUARES LAYOUT #3 SM

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	8
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	48

ZZUN7118 - CLIMBING SQUARES CORNER TO CORNER BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1002	PLATE - 5.00" x 5.00" x .88"	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	2

ZZUN7119 - CLIMBING SQUARES PLANE TO PLANE BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1000	PLATE - 7.00" x 2.88" x 12 GA	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	2
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	2
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - S.S.	2

ZZUN7126 - CLIMBING SQUARES OVERHANGING BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1001	PLATE - 11.75" x 2.69" x 1.50"	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S	4



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intentionally left blank.

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

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

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Replacement Parts

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

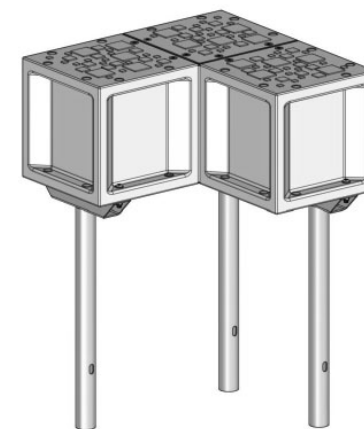
Equipment Maintenance

Universal Models ZZUN7097,
ZZUN7097S, ZZUN7099,
ZZUN7099SE, ZZUN7118,
ZZUN7119 and ZZUN7126

Climbing Squares Layout #1 and #3
In-Ground and Surface Mount



ZZUN7097



ZZUN7099

Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

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

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

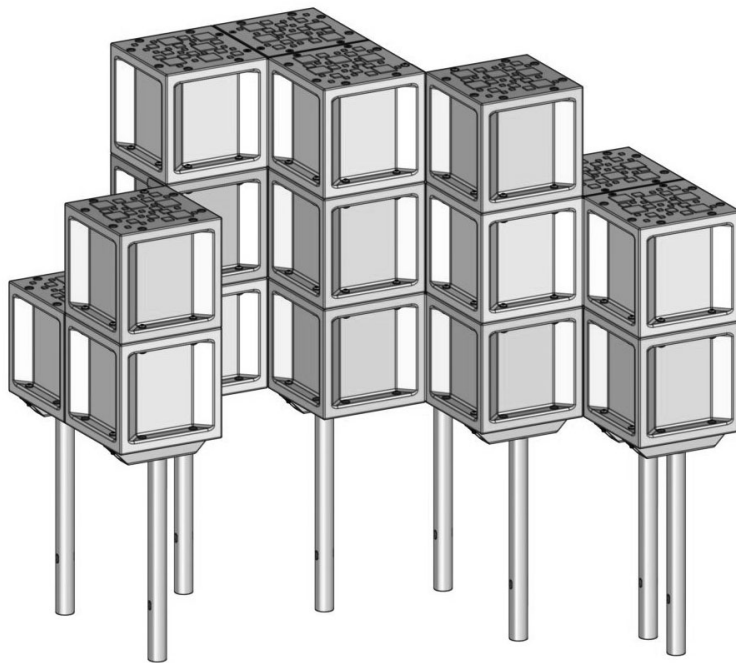
Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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





Assembly View (*representative model*)

Installation Instructions

Universal Models ZZUN7108 and ZZUN7108S







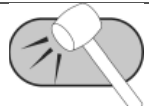
Climbing Squares- Layout #6

In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (in-ground): 6.5 man-hours
 Installation Time (surface mount): 3 man-hours
 Concrete Required (in-ground): 0.21 cubic yard (0,14 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

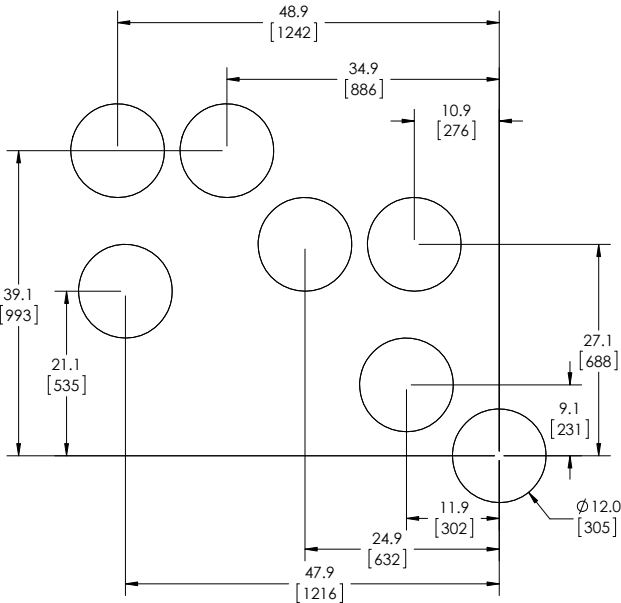
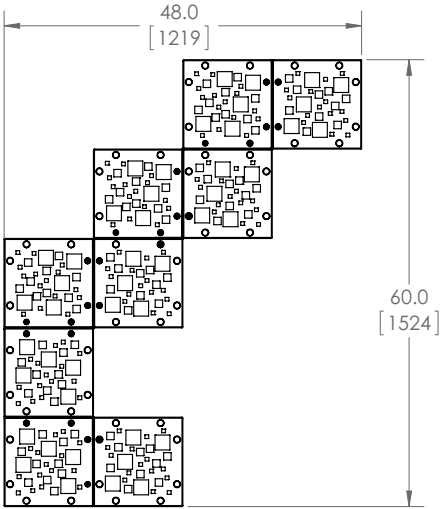
ICON KEY

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

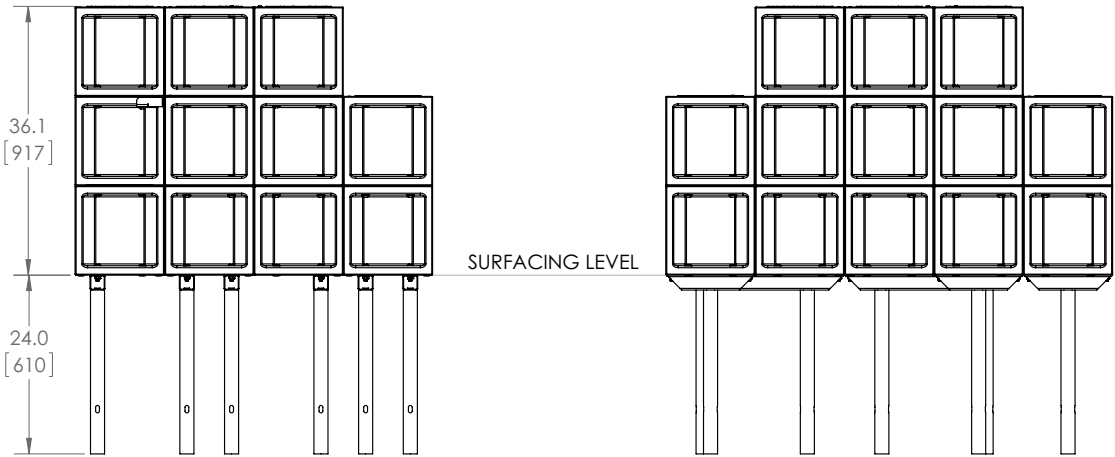
Installation Instructions

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

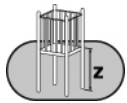
Top View



Footing Diagram



Elevation Views
ZZUN7108

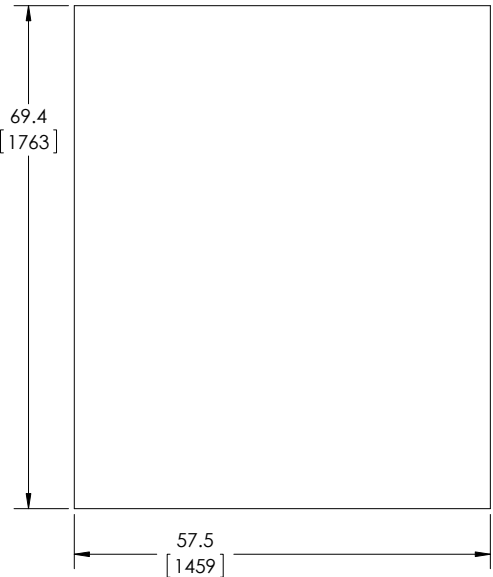
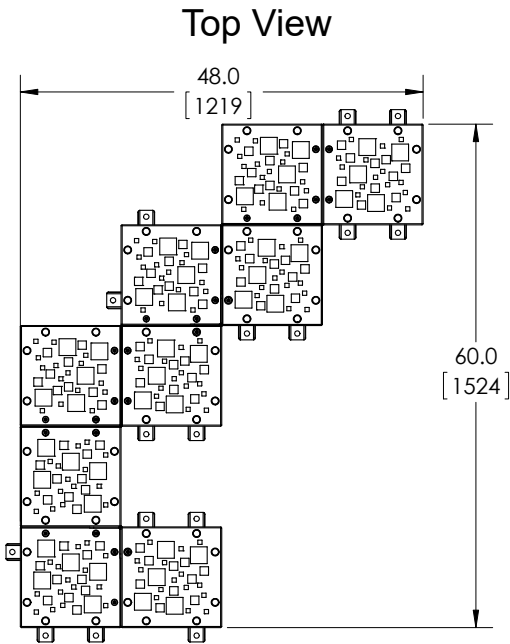


ASTM/CSA: 36.1" (917 mm)
EN: 917 mm

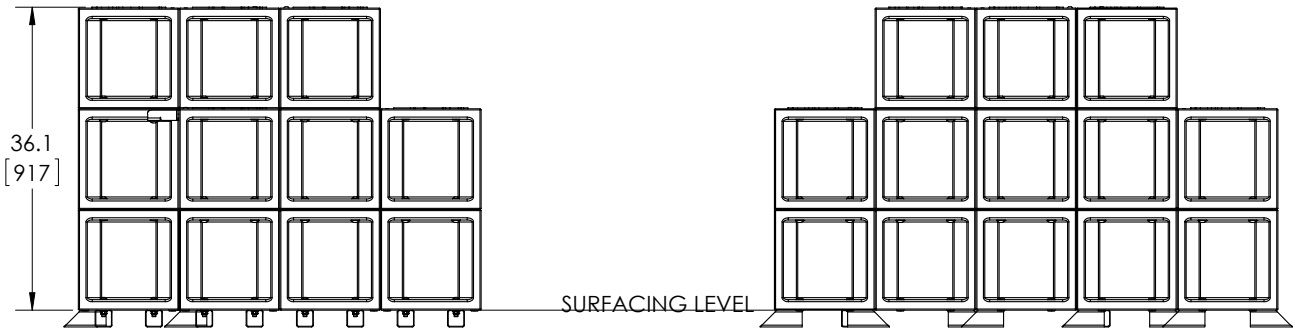


Installation Instructions

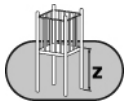
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



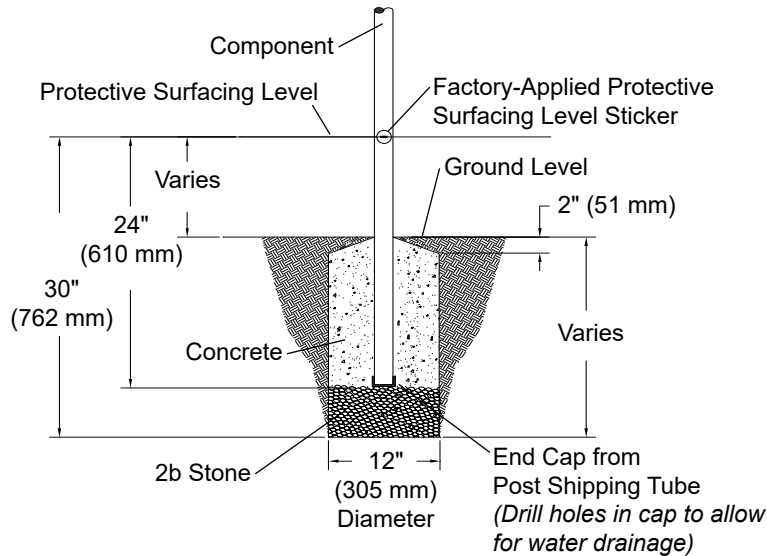
Elevation Views
ZZUN7108S



ASTM/CSA: 36.1" (917 mm)
EN: 917 mm



Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase bottom of support post in concrete. Place post directly on packed stone.

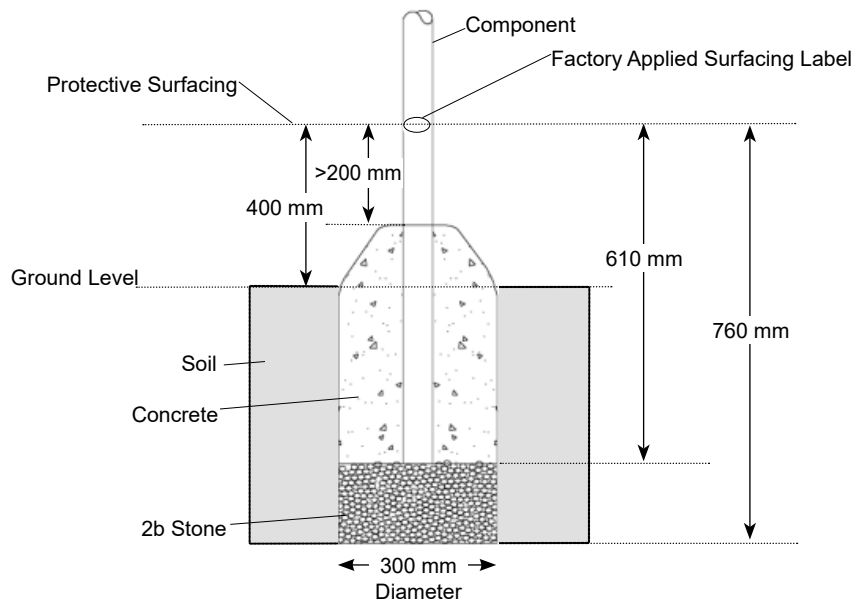
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.

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.

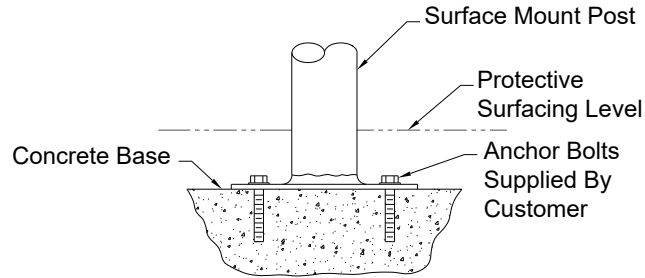
- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail Component Post (EN)

Installation Instructions



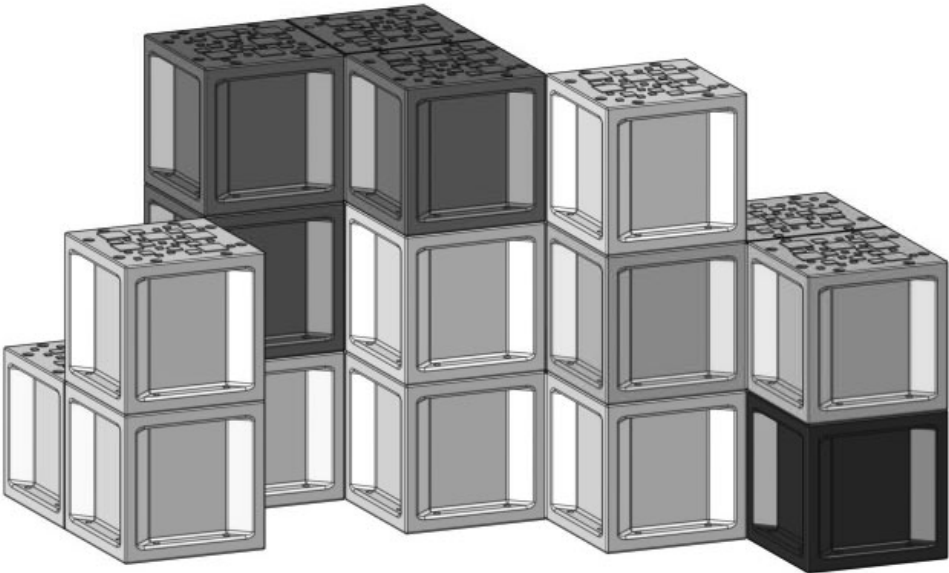
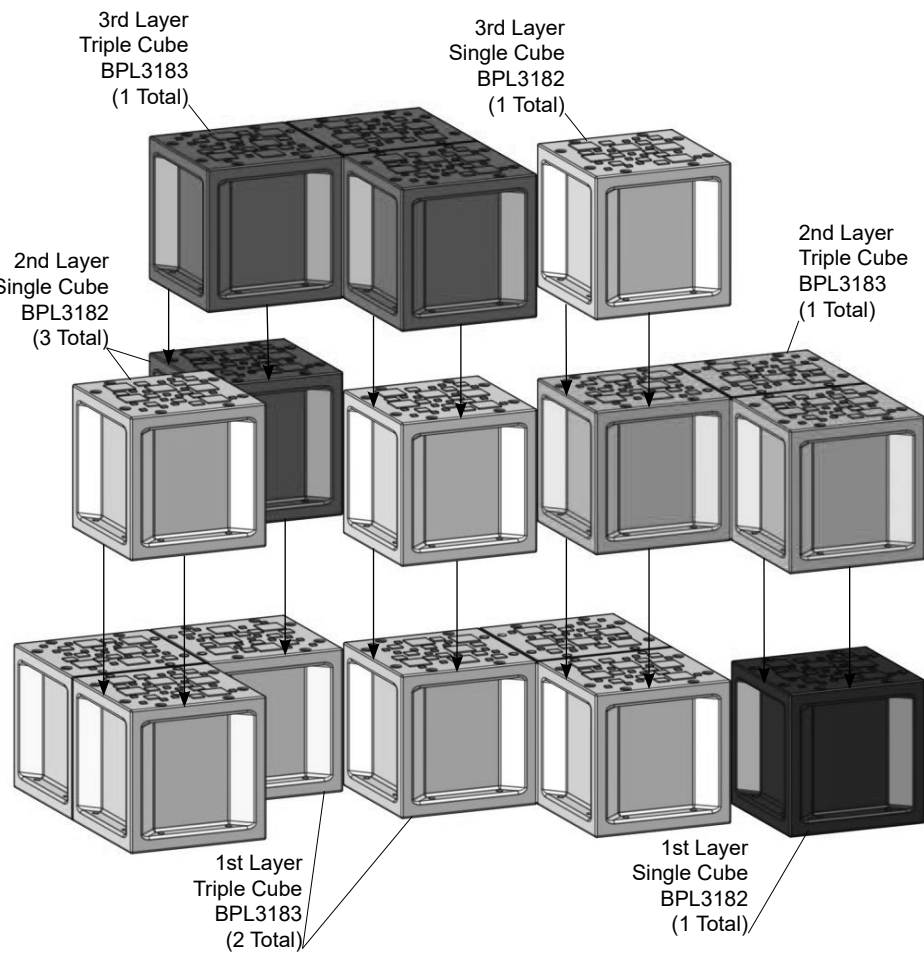
Surface Mount Footing Detail

FOOTING NOTES

- All support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in [Handbook for Public Playground Safety](#) published by U. S. Consumer Product Safety Commission.

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

Installation Instructions

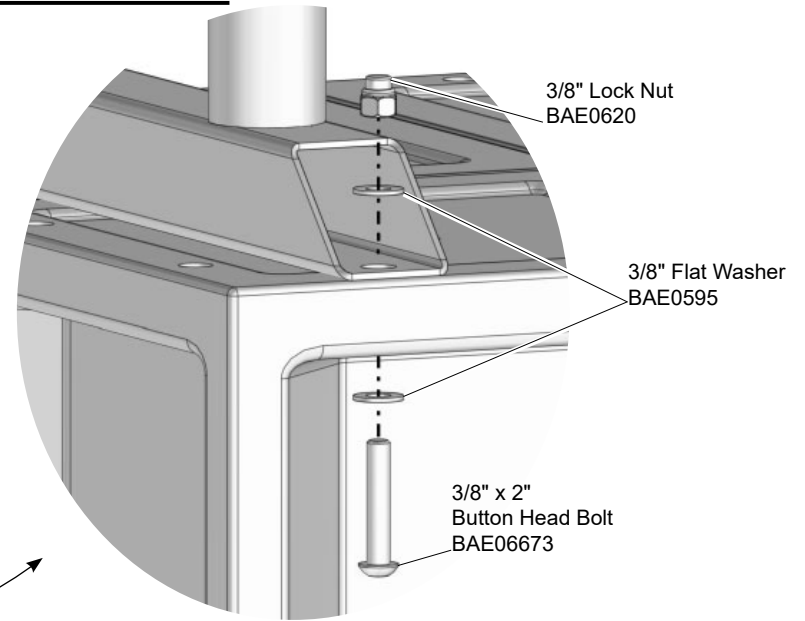
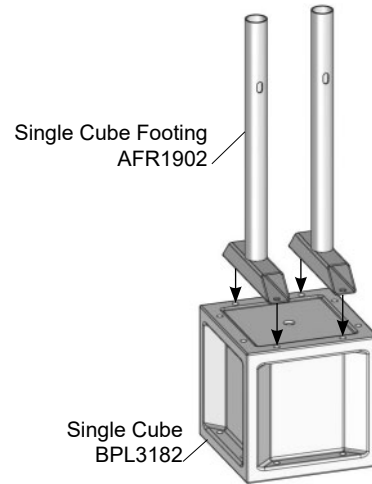
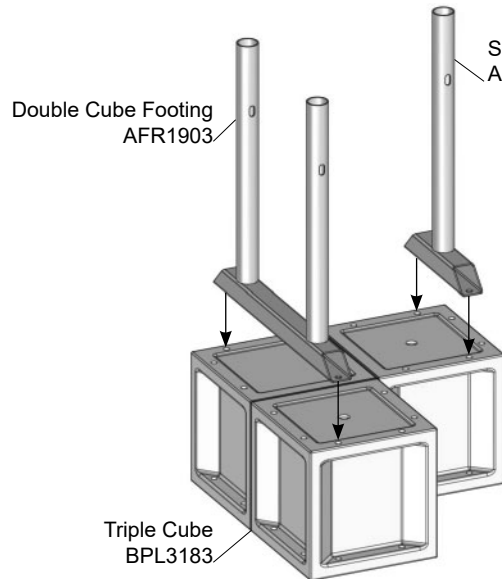


Cube Placement for ZZUN7108 and ZZUN7108S



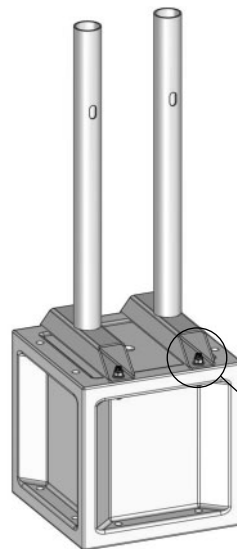
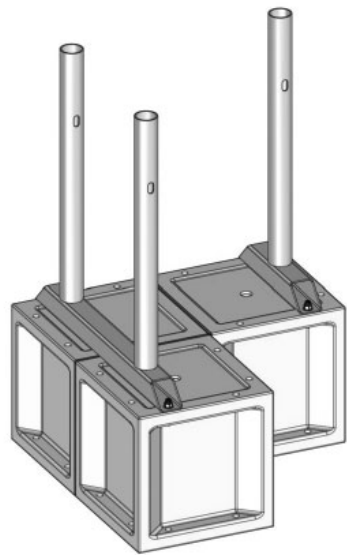
Installation Instructions

Common Climbing Squares Connections



Detail A
(In-Ground Model Only)

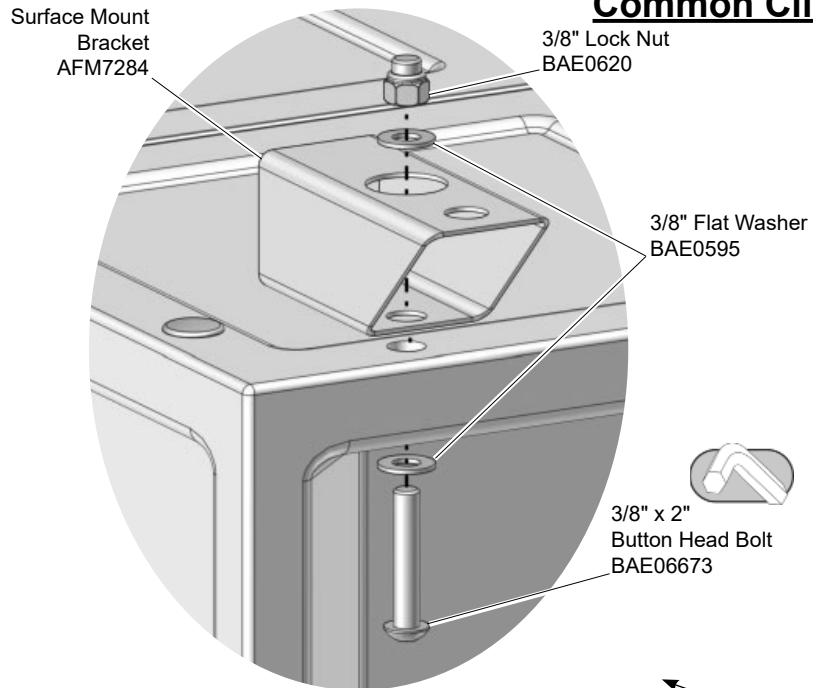
Attach the footing legs to the bottom of the cube assembly.



In-ground Mount Only: Attach the footing legs to the bottom side of the cubes (the bottom is the "non-treaded" side). The Triple Cube will require one double cube footing and one single cube footing and the Single Cube will require two single cube footings.

Installation Instructions

Common Climbing Squares Connections

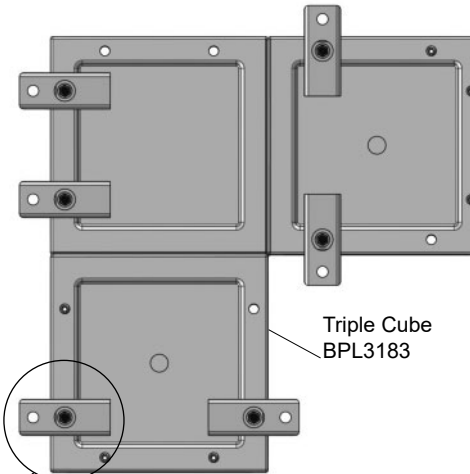


Connection B

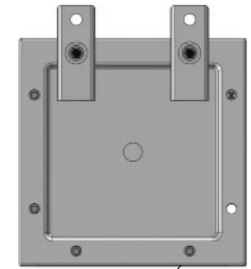
Surface Mount Only

Attach the surface mount brackets to the bottom of the cubes.

Location of the brackets may vary depending on the cube assembly. Refer to the installation instruction for your specific layout. These views are for reference only.



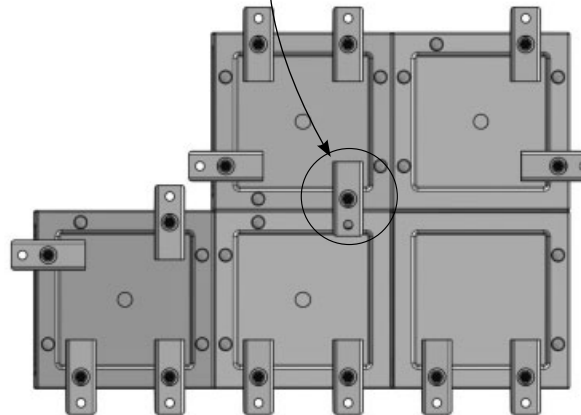
Triple Cube
BPL3183



Single Cube
BPL3182

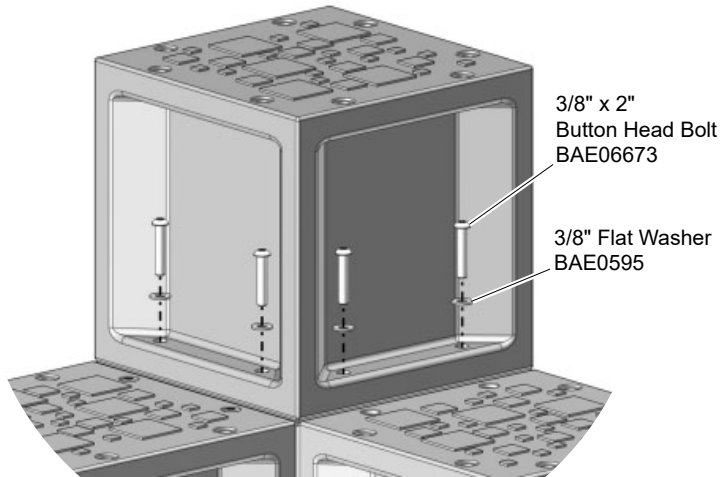
Surface Mount Only: Attach the surface mount brackets to the bottom side of the cubes (the bottom is the "non-treaded" side). The angled edge of the brackets should be pointing to the outside.

Note: There may be a surface mount bracket that could be located in the middle of the Climbing Squares configuration, that bracket is not required to be anchored to the concrete base, however it must be installed to support the cubes.



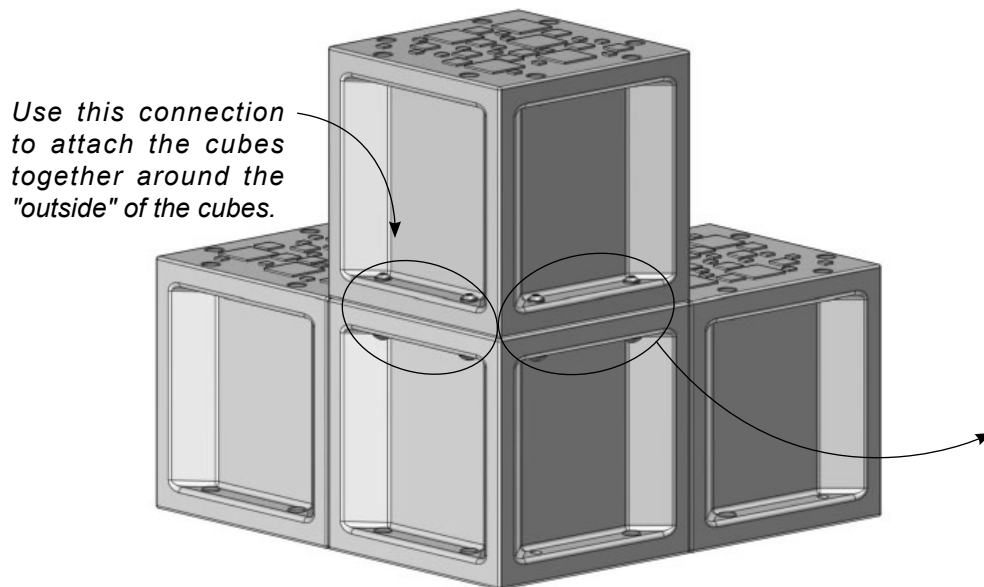
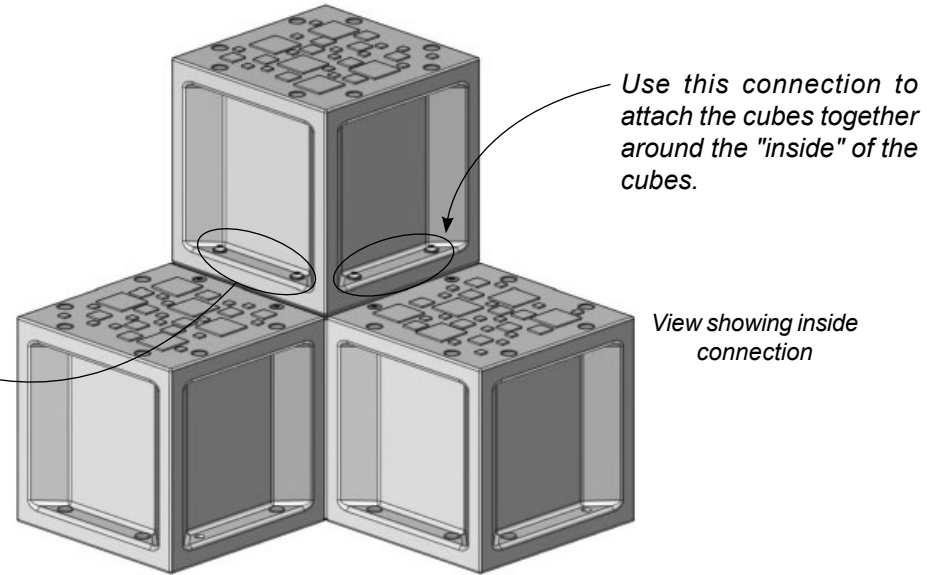
Installation Instructions

Common Climbing Squares Connections

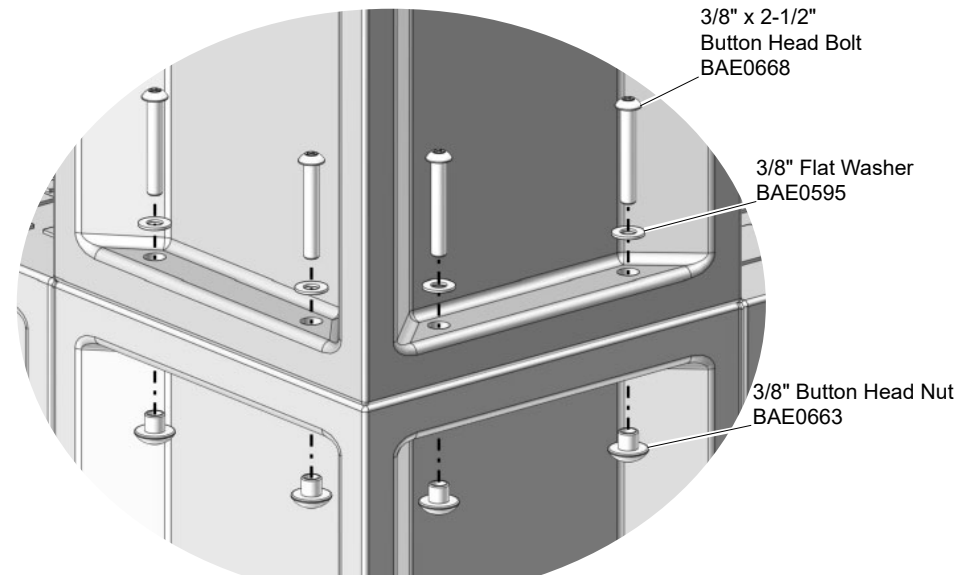


Connection C

Inside connection for cube to cube.



View showing outside connection

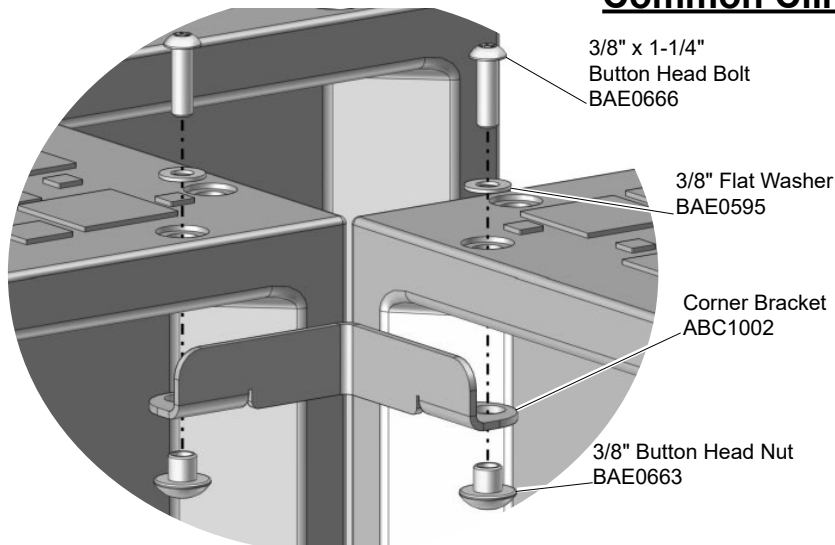


Connection D

Outside connection for cube to cube.

Installation Instructions

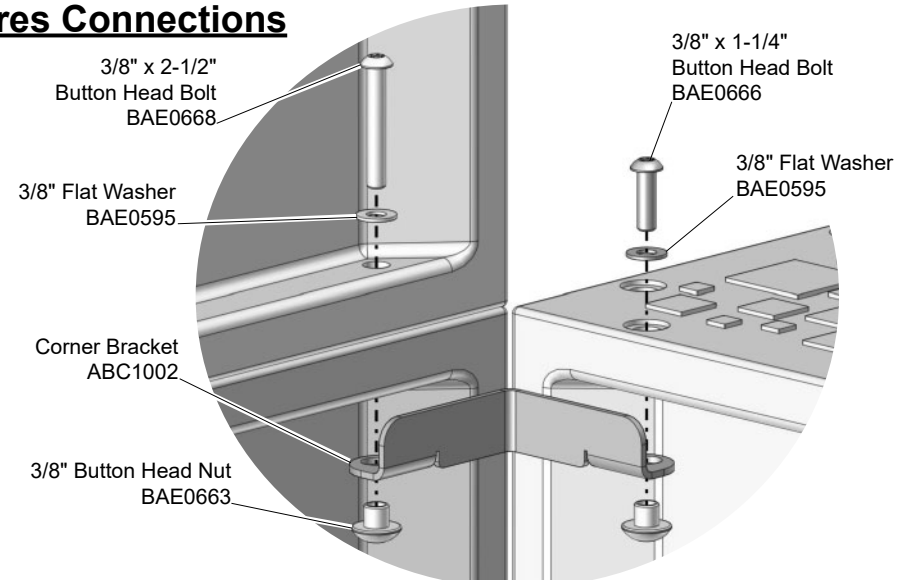
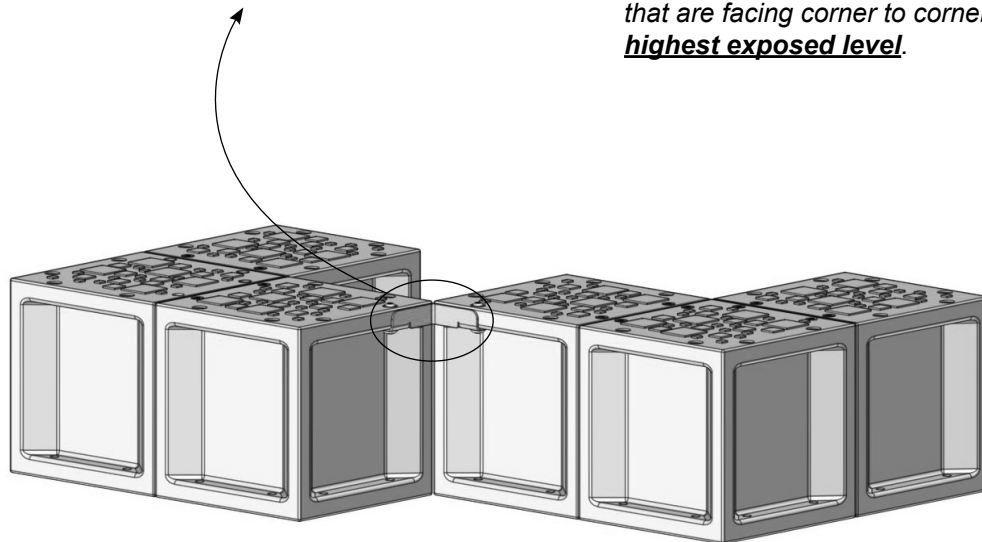
Common Climbing Squares Connections



Connection E

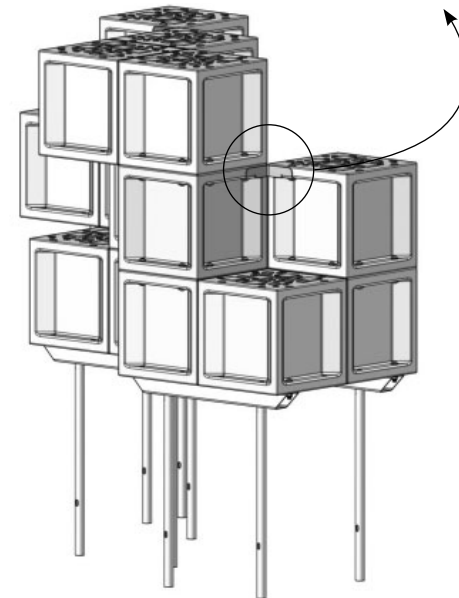
Attach the corners of the cubes using the corner bracket.

Note: The corner to corner bracket should be used to attach cubes in the same layer that are facing corner to corner at the highest exposed level.



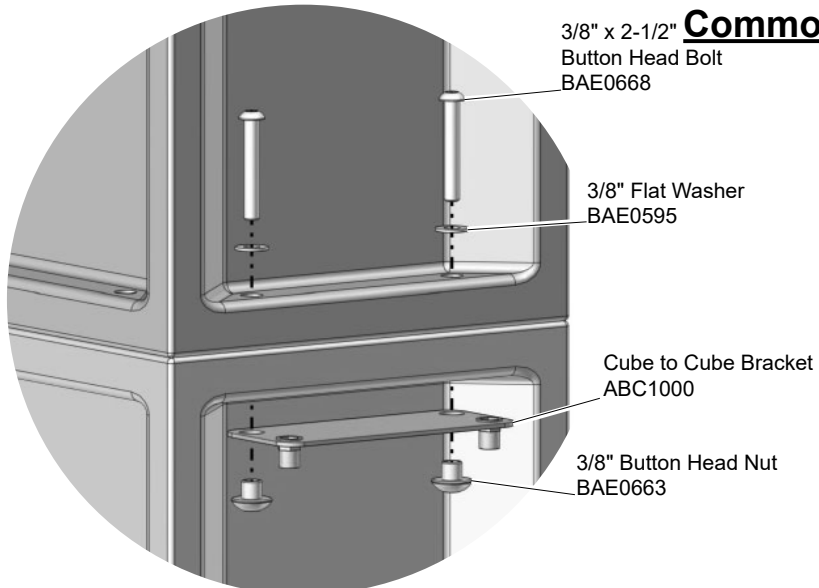
Connection F

Attach the corners of the cubes using the corner bracket. Use this connection if there is another cube to be attached on top.



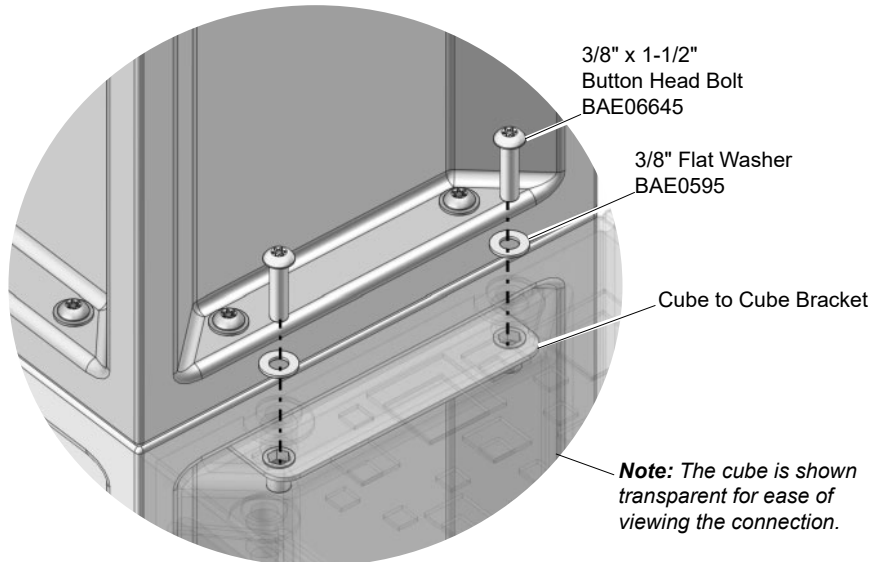
Installation Instructions

Common Climbing Squares Connections



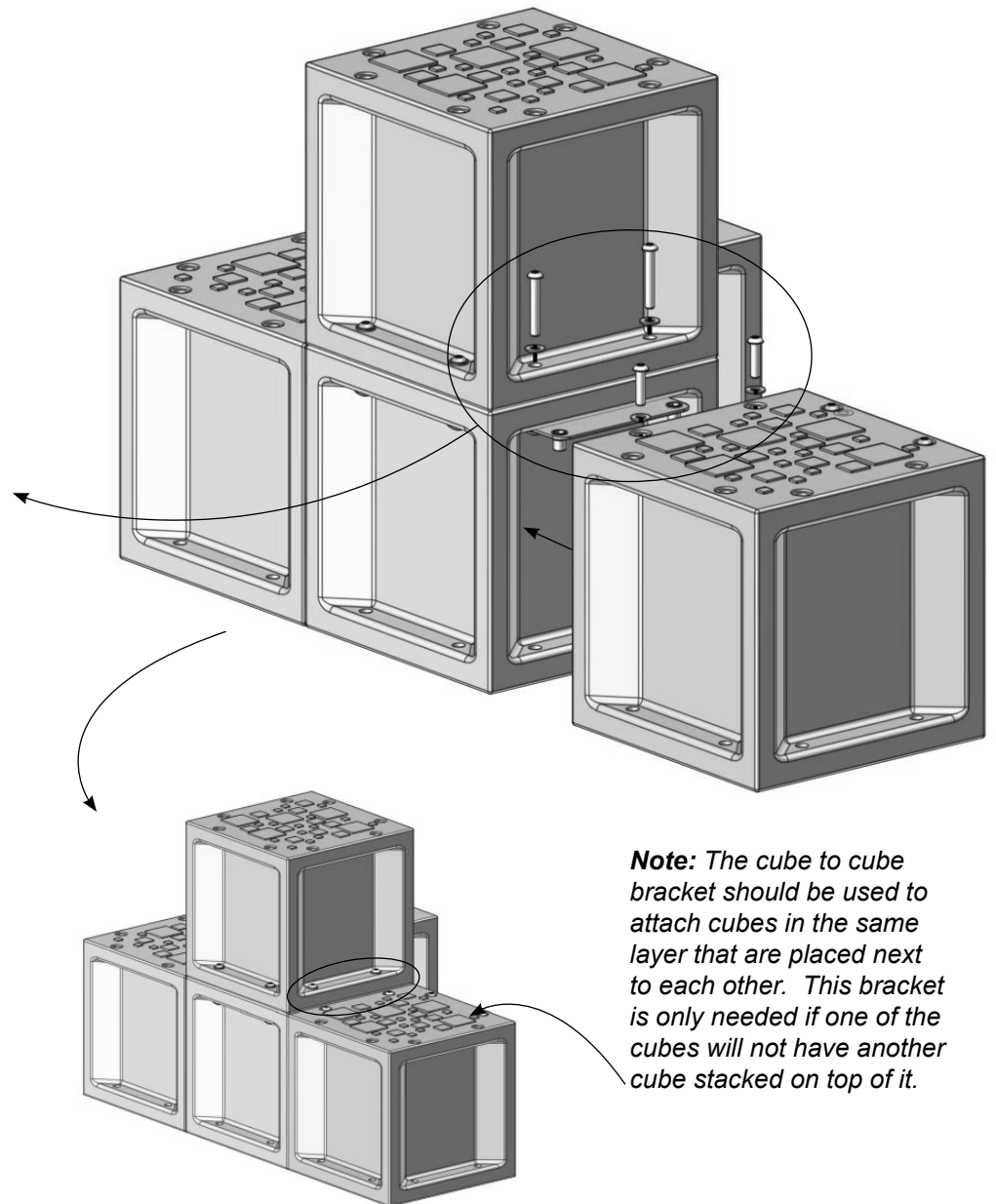
Connection G-1

Attach the cube to cube bracket to the underside of the cube.



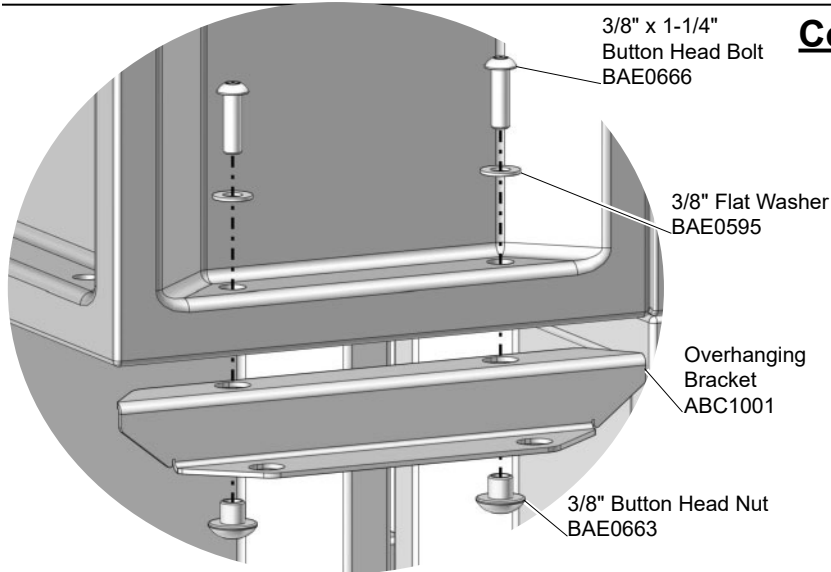
Connection G-2

Place another cube over the bracket and attach as shown.



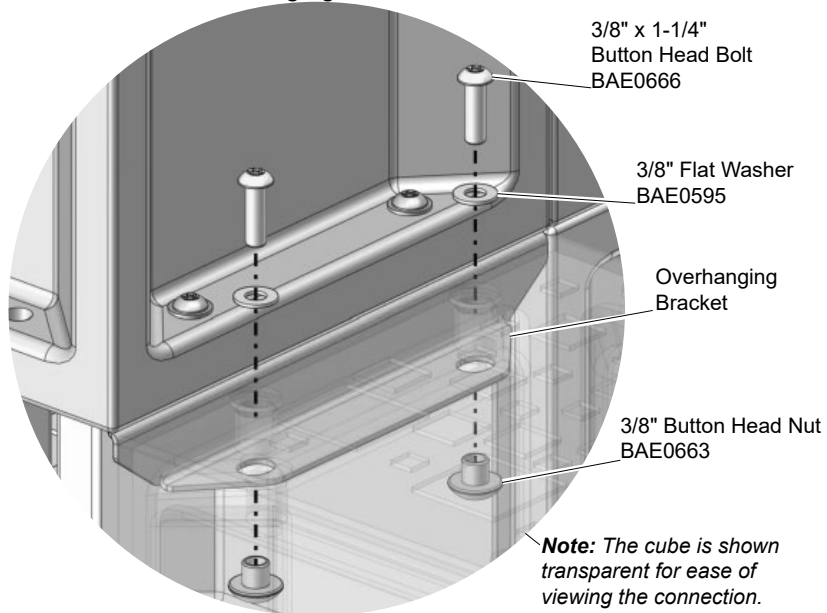
Installation Instructions

Common Climbing Squares Connections



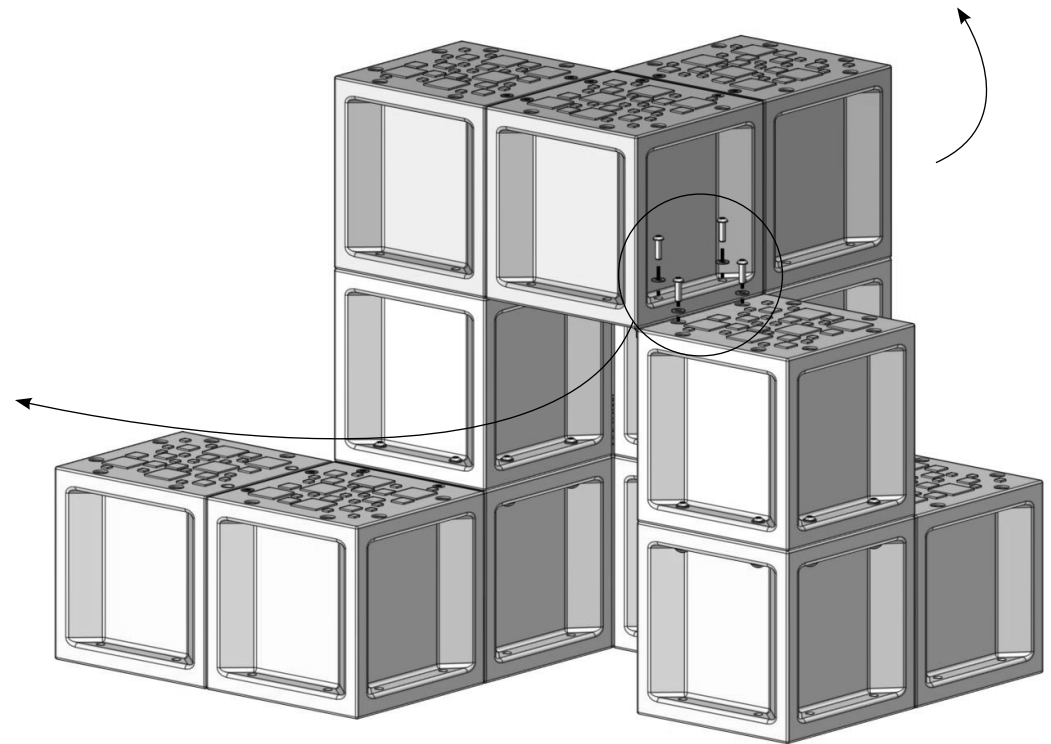
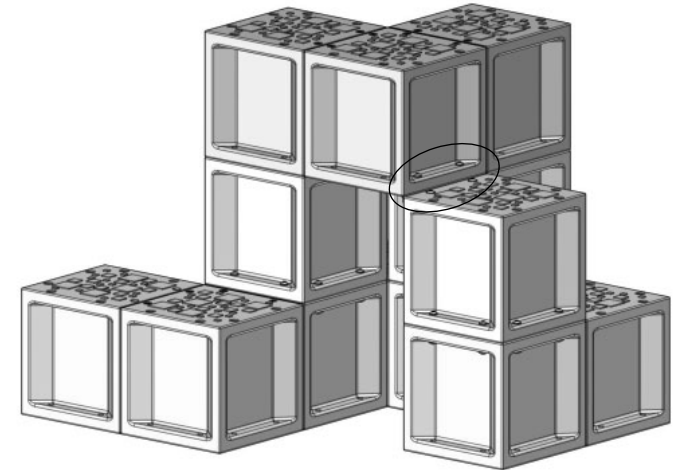
Connection H-1

Attach the overhanging bracket to the underside of the cube.



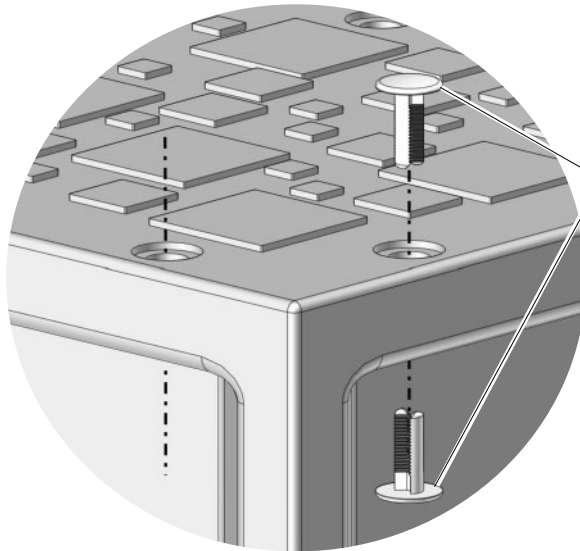
Connection H-2

Place another cube over the bracket and attach as shown.



Installation Instructions

Common Climbing Squares Connections

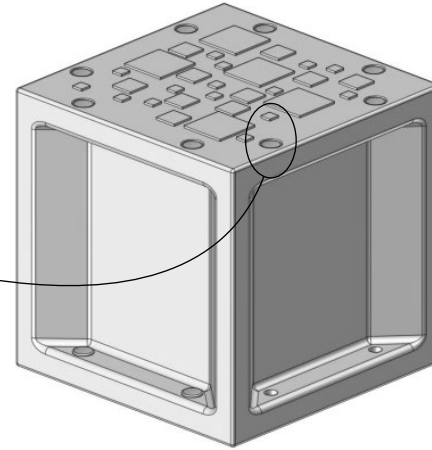


Ratchet Rivet
BPL3193

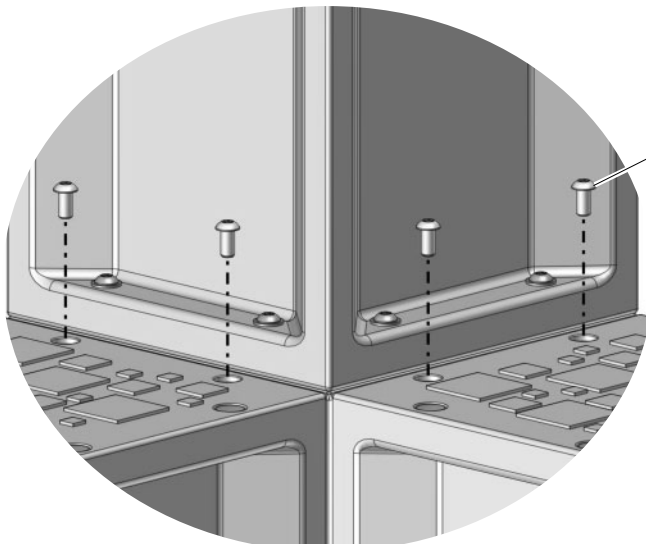
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Connection J

Plug empty holes on cubes.



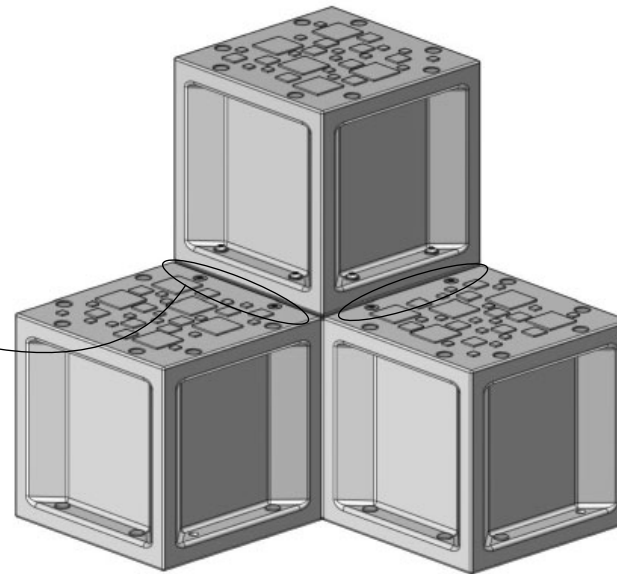
The ratchet rivets are used to fill any empty hole (around the outside of the cube) when done assembling the cubes. Place a rivet on the top and bottom of each empty hole and press together until flush with the cube.



3/8" x 3/4"
Button Head Bolt
BAE0659

Connection K

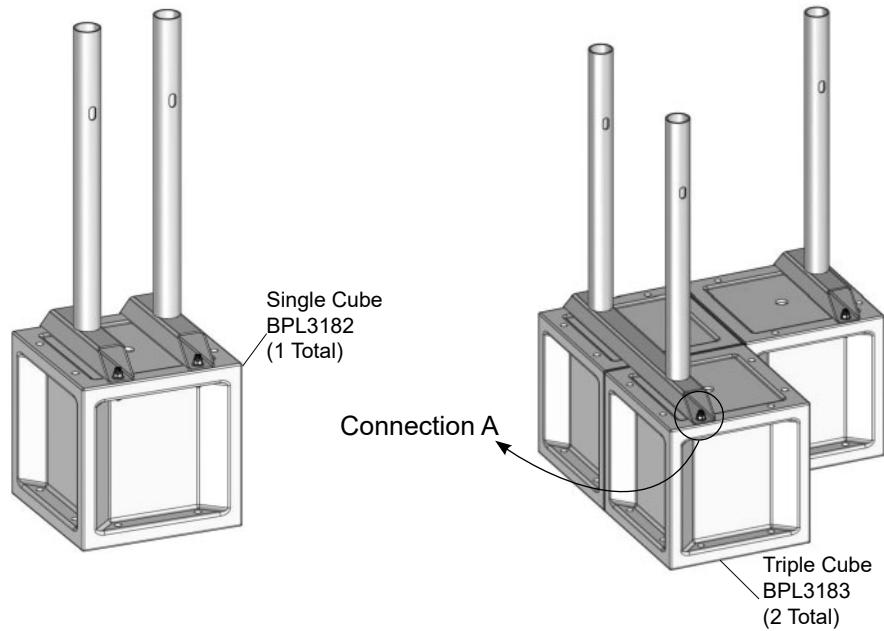
Fill inserts on top of cubes.



Fill any empty inserts on the top of the Triple Cubes when done assembling the cubes. The inserts are located around the inside of the Triple Cubes.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 21.



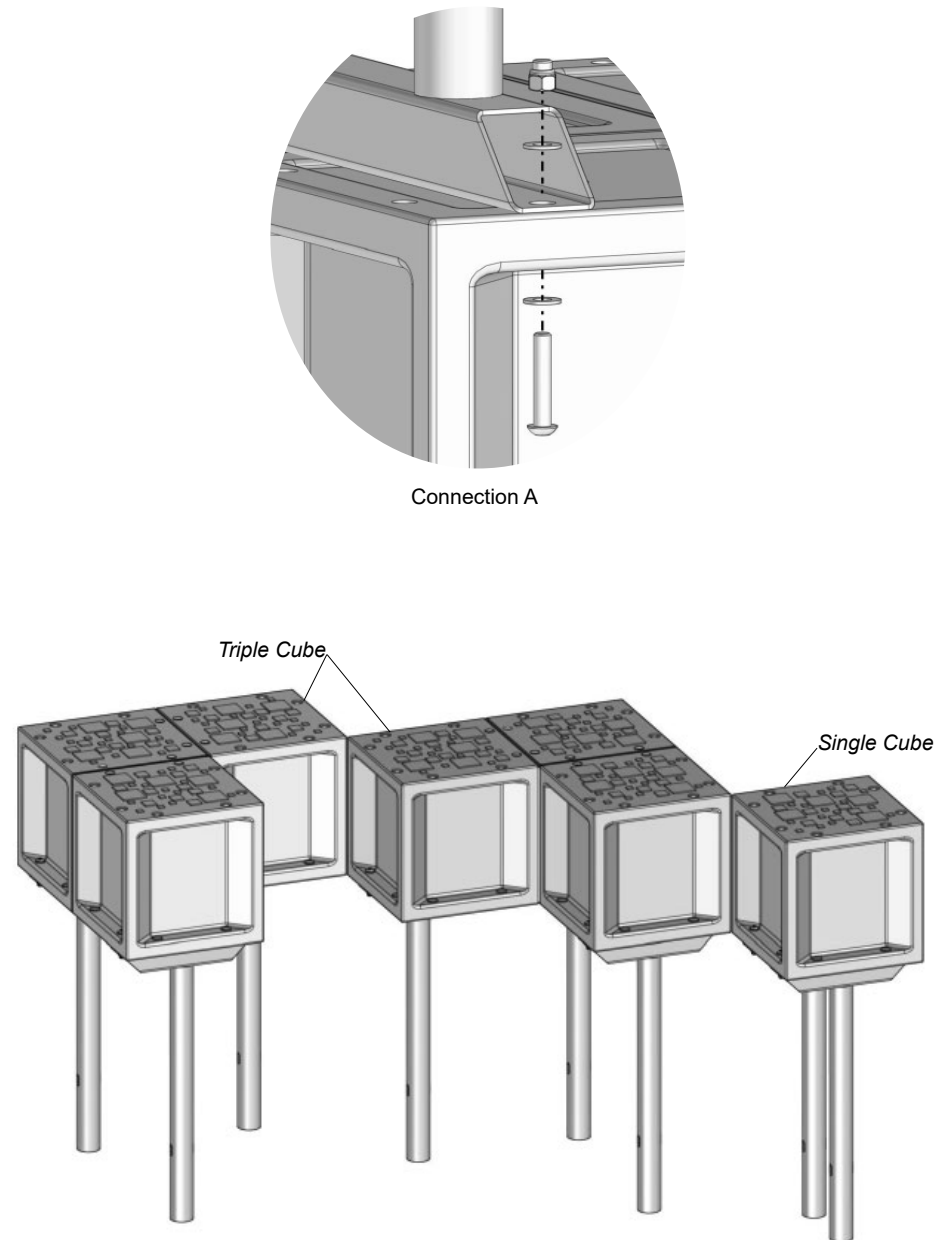
View showing the underside of the cubes with footing leg connections.



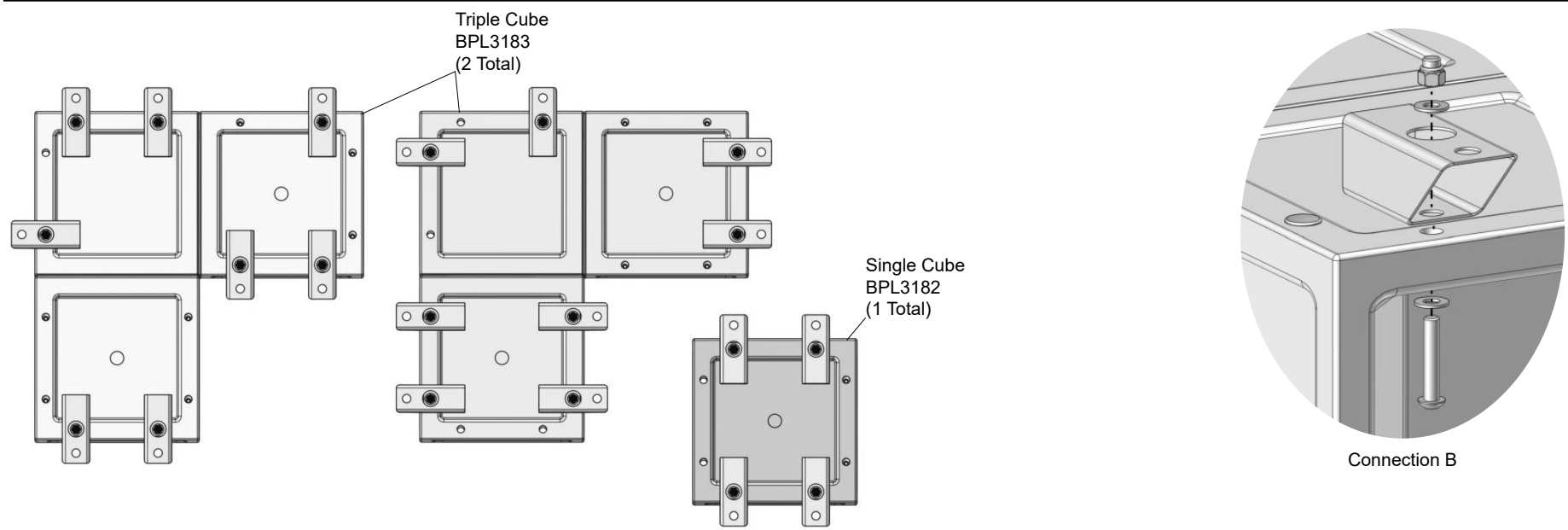
Step 4

In-ground Mount Only

Attach the footing legs to the 1st layer cubes.



Installation Instructions

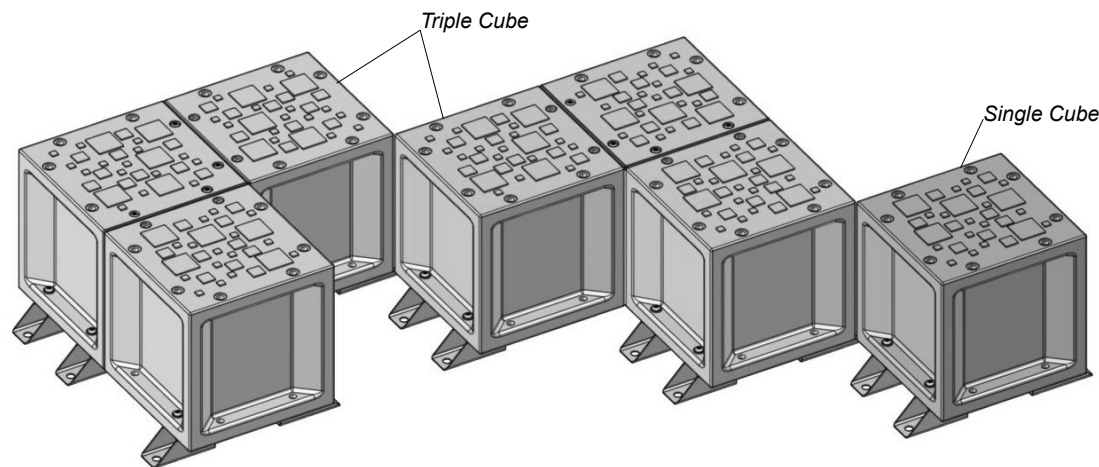


Views showing the underside of the cubes with footing bracket connections.

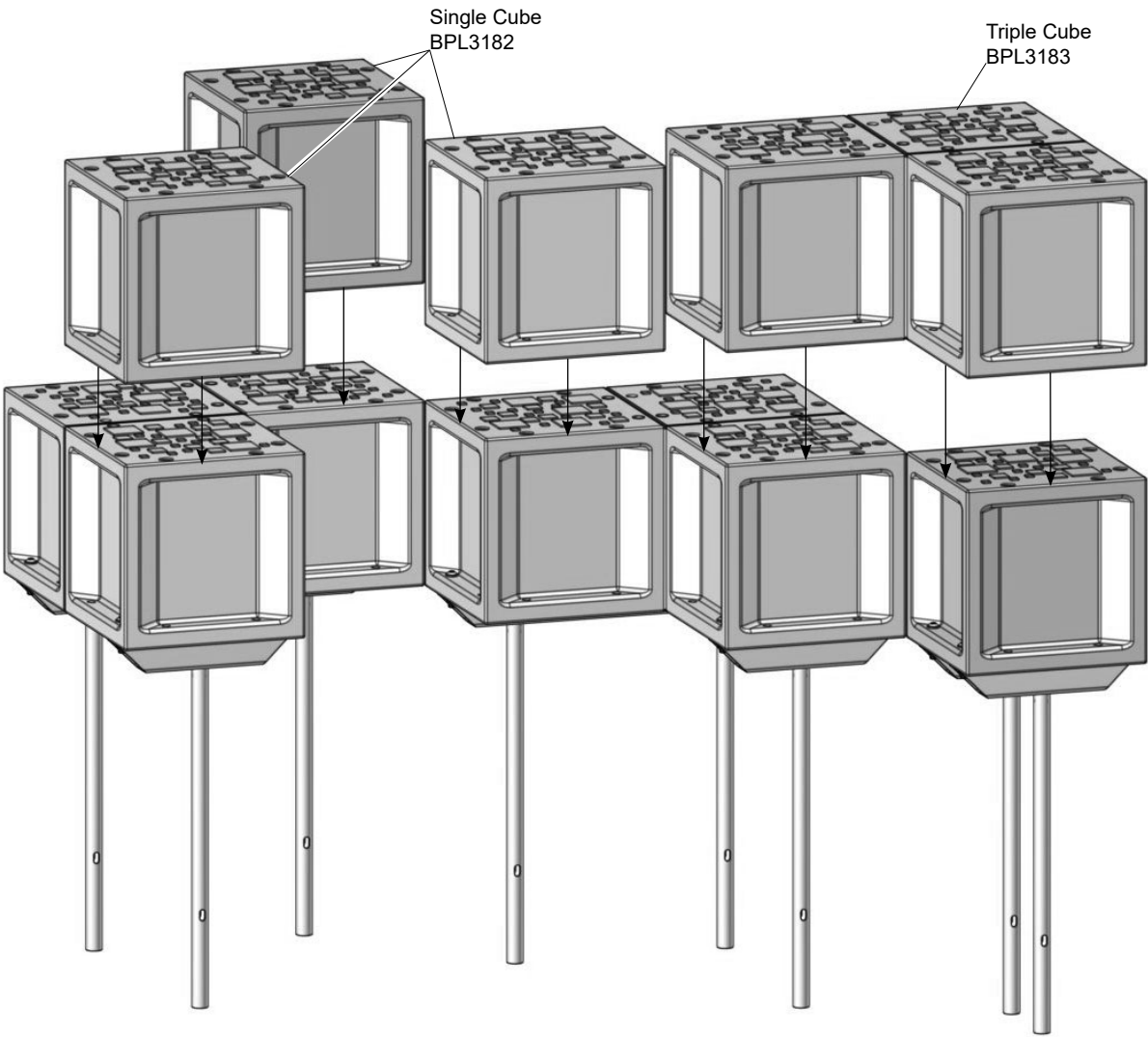


Step 5 Surface Mount Only

Attach the footing brackets to the 1st layer cubes.



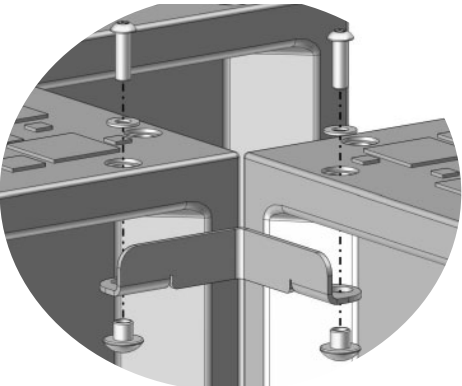
Installation Instructions



Place the 2nd layer on the 1st layer.

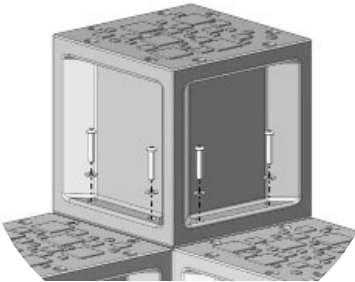
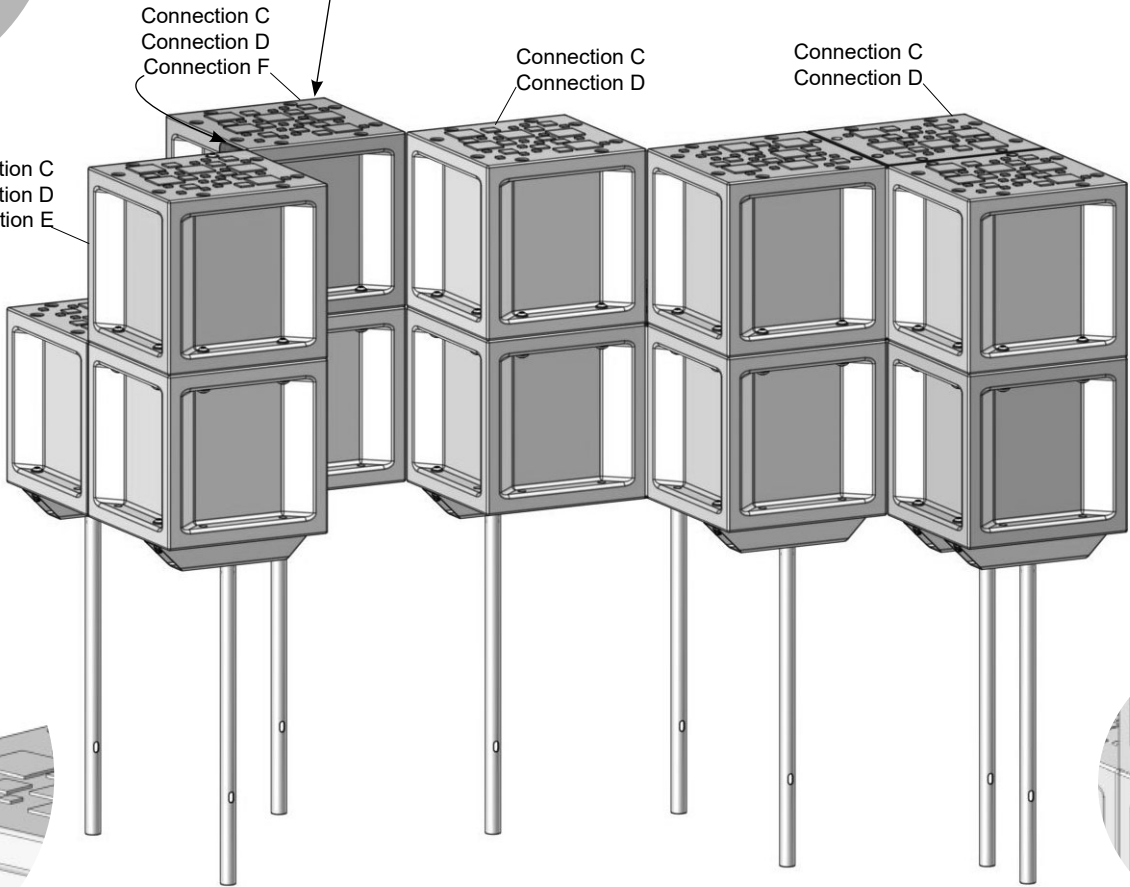


Installation Instructions

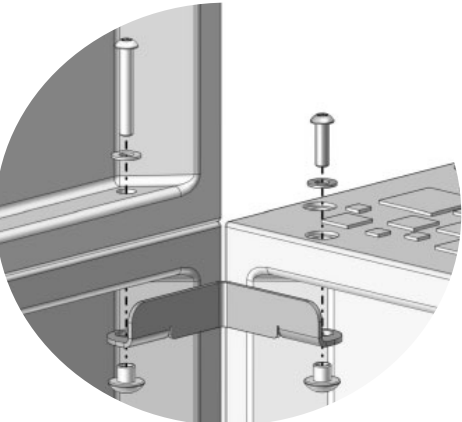


Connection E

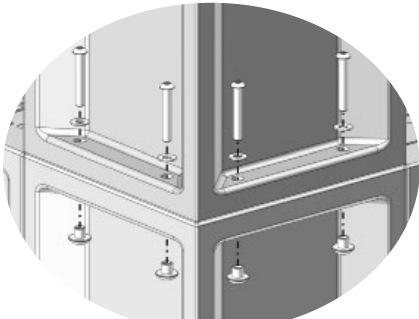
Note: The Triple Cube from the 3rd layer will be needed to complete Connection F to this Single Cube.



Connection C



Connection F

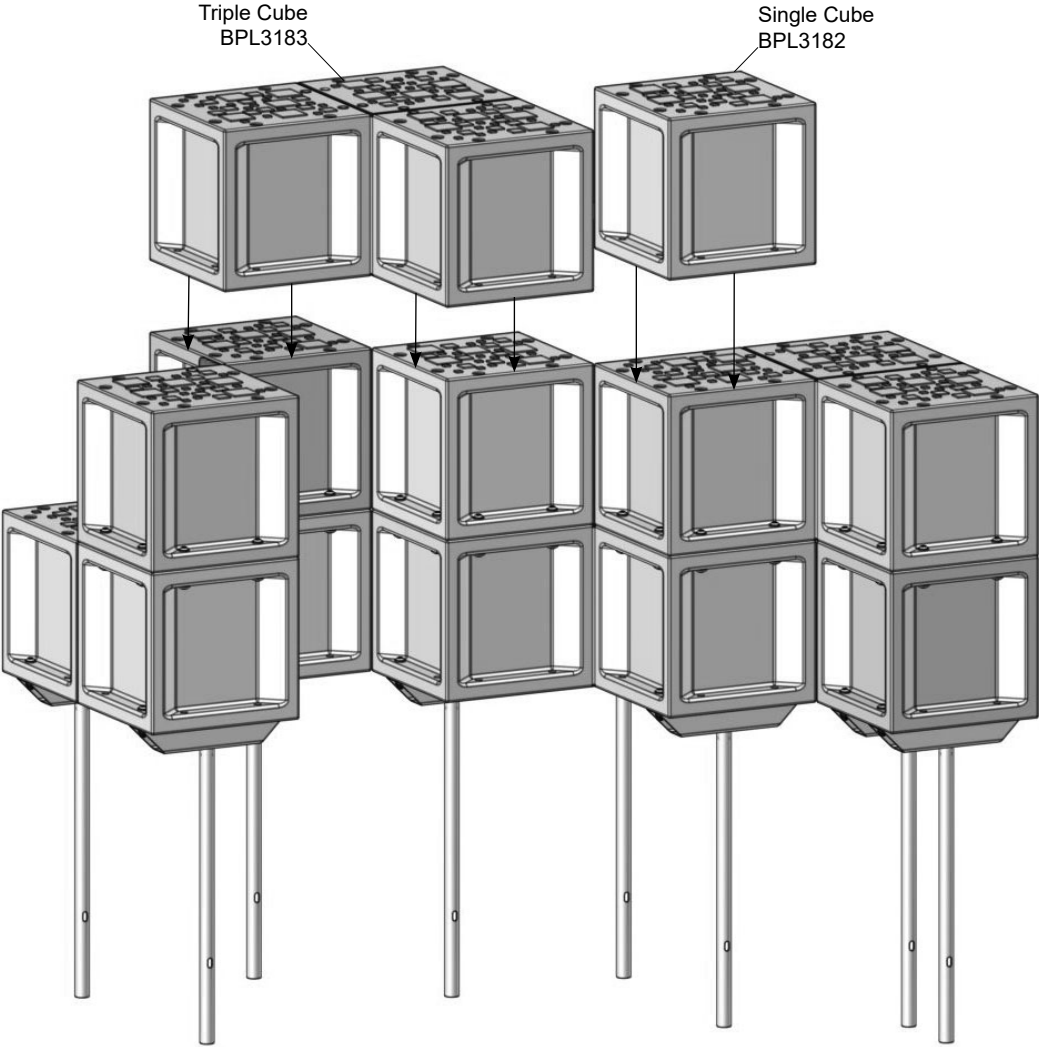


Connection D

Step 6
Attach the 2nd layer to the 1st layer.



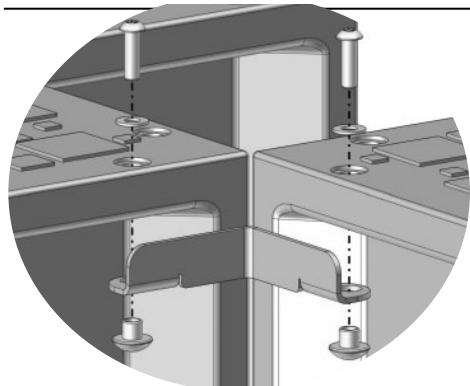
Installation Instructions



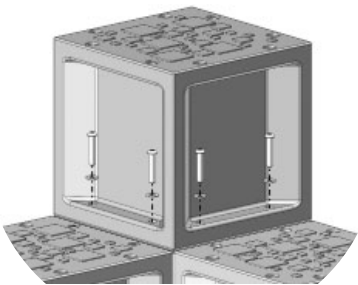
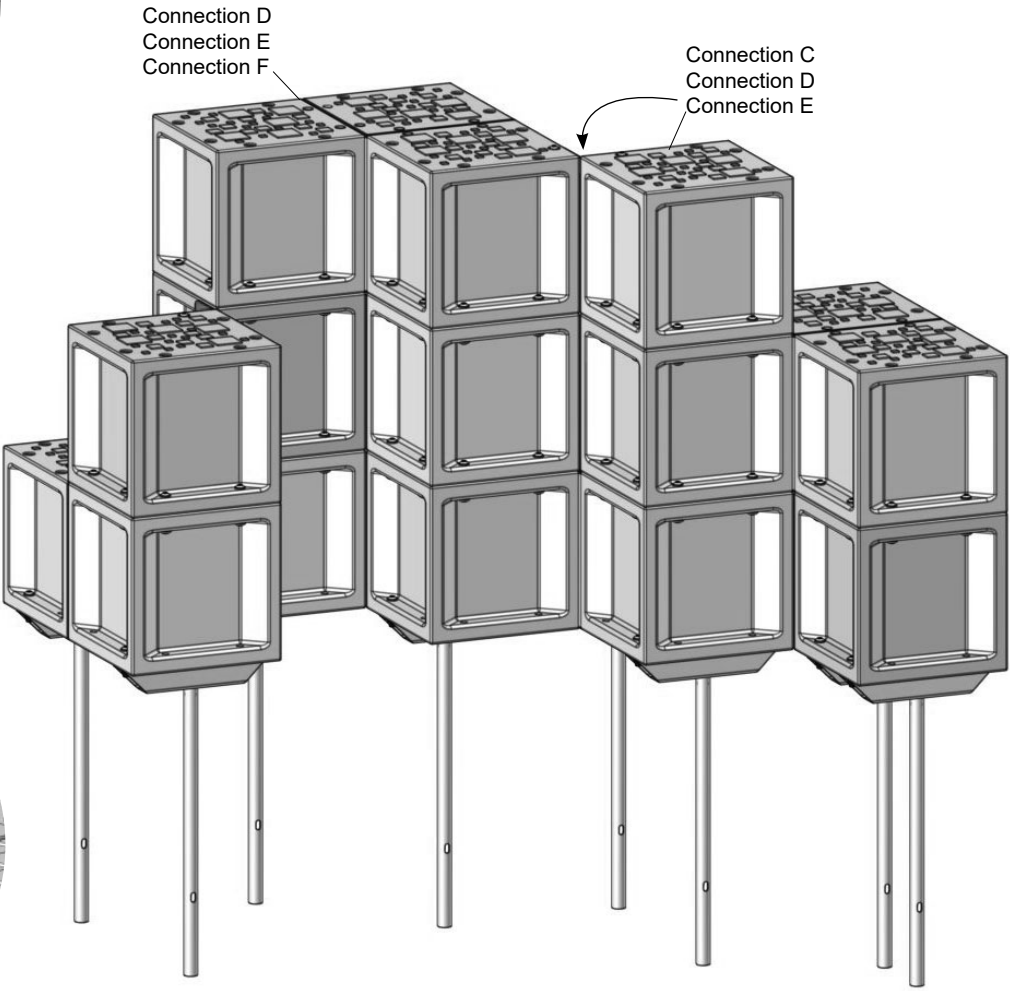
Place the 3rd layer on the 2nd layer.



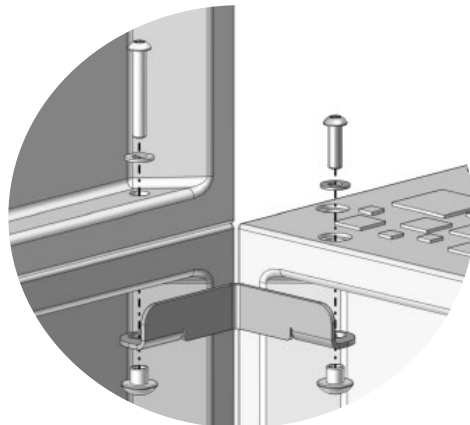
Installation Instructions



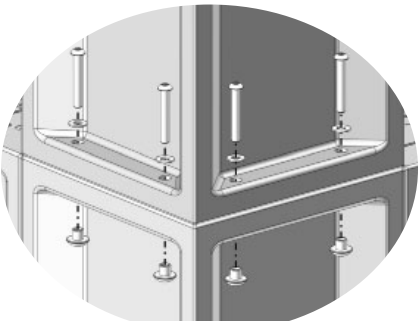
Connection E



Connection C



Connection F

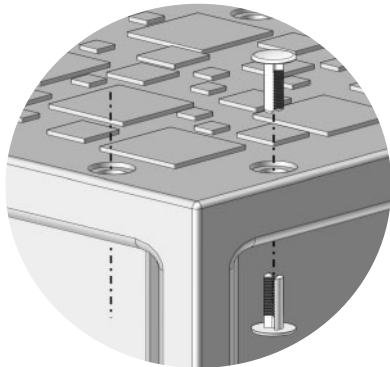


Connection D

Step 7
Attach the 3rd layer to the 2nd layer.

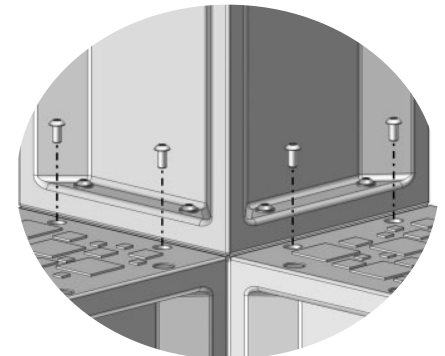


Installation Instructions



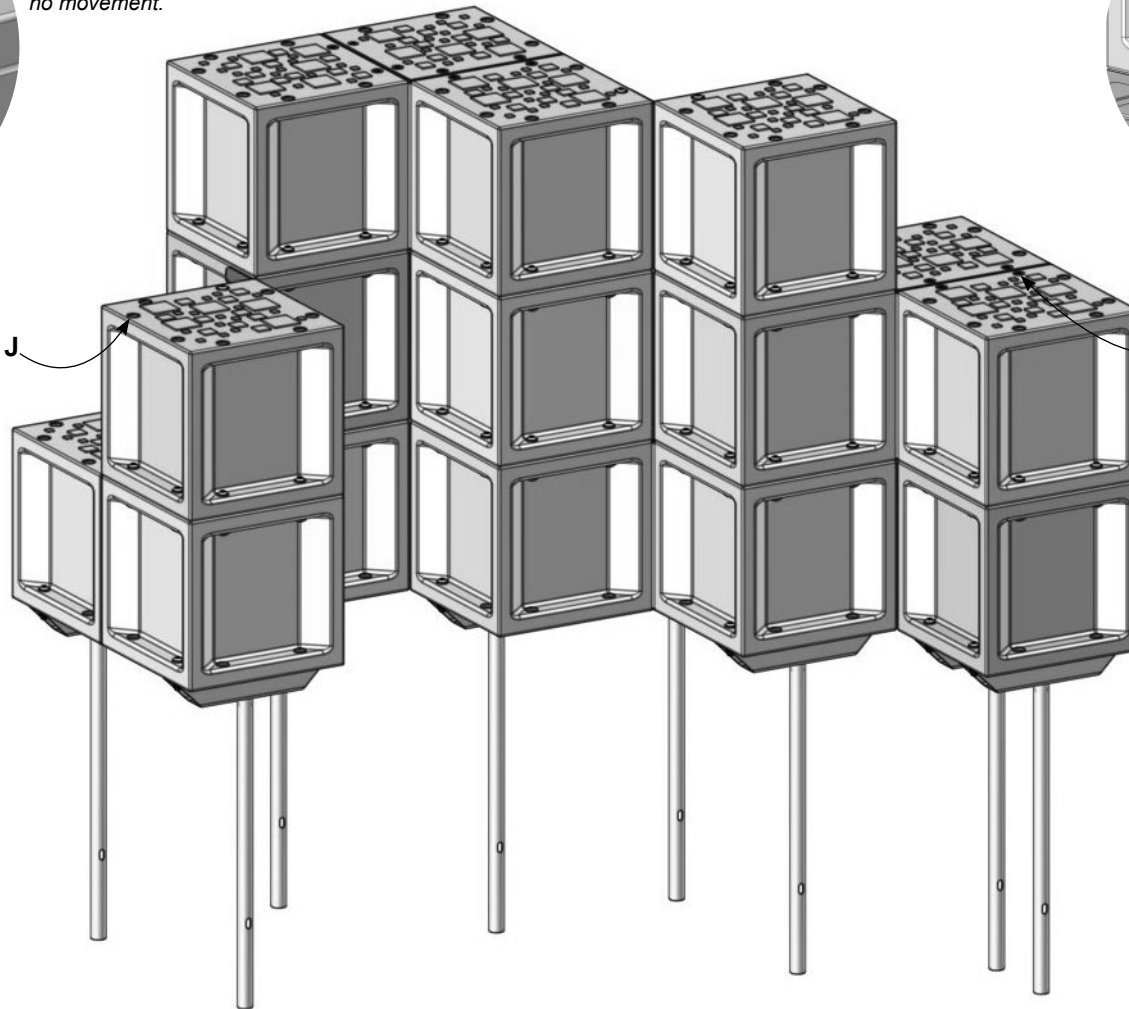
Connection J

Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.



Connection K

Connection J



Connection K

Step 8

Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes.

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing Detail or Surface Mount Footing Detail** on page 4-5 of this document.

Step 4 (In-ground Mount Only): Attach the footing legs to the 1st layer of cubes. See **Page 14 and Connection A**. Turn the cubes upside down, position the footing legs on the cubes, align the holes, and attach as shown. Refer to **Page 14** for the placement of the footing legs.

Step 5 (Surface Mount Only): Attach the footing brackets to the 1st layer of cubes. See **Page 15 / Connection B**. Turn the cubes upside down, position the footing legs on the cubes, aligning the holes. The angled edges of the surface mount brackets should be pointing to the outside. Attach as shown. See **Page 13** for placement of the footing brackets.

Step 6: Attach the 2nd layer to the 1st layer. See **Pages 16 and 17**. Place the cubes on top of the first layer, and attach as shown.

Step 7: Attach the 3rd layer to the 2nd layer. See **Pages 18 and 19**. Place the cubes on top of the second layer, and attach as shown.

Step 8: Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes. See **Page 20**. To fill the empty holes on the outside rim of the cubes, place a ratchet rivet in the top and bottom of the hole and press together until flush with the cube (See **Connection J**). To fill the empty holes on the inside holes on the tops of the Triple Cubes and insert the bolts in the holes as shown (See **Connection K**).

Final Details.

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

Torque Specifications:

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

Step 10 (In-ground Mount Only): Plumb and level entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 11 (Surface Mount Only): Plumb and level entire component. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

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

ZZUN7108 - CLIMBING SQUARES LAYOUT #6

PART NO.	DESCRIPTION	QTY.
ABC1002	PLATE - 5.00" x 5.00" x .88"	2
AFR1902	FOOTING - SINGLE CUBE	4
AFR1903	FOOTING - DOUBLE CUBE	2
BAE0595	WASHER - 3/8" SAE FLAT	83
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	22
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	49
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	3
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	46
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	22
BPL3182	SINGLE CUBE	5
BPL3183	TRIPLE CUBE	4
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	182

ZZUN7108S - CLIMBING SQUARES #6 SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
ABC1002	PLATE - 5.00" x 5.00" x .88"	2
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	20
BAE0595	WASHER - 3/8" SAE FLAT	99
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	22
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	49
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	3
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	46
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	30
BPL3182	SINGLE CUBE	5
BPL3183	TRIPLE CUBE	4
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	166



Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

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

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

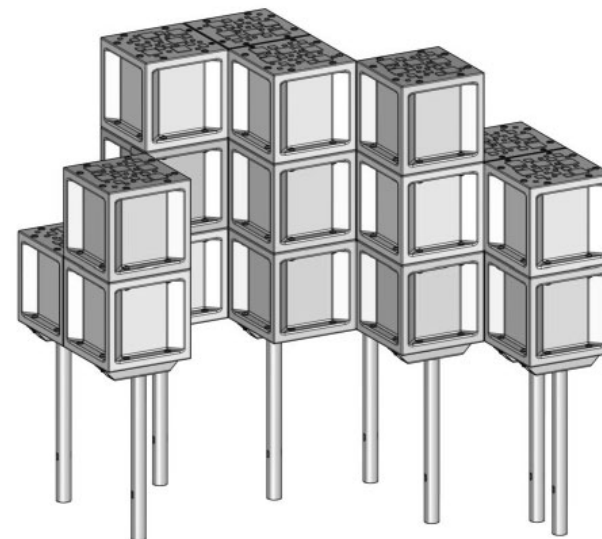
Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Replacement Parts

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

Equipment Maintenance Universal Models UN7108 and ZZUN7108S Climbing Squares- Layout #6 In-ground and Surface Mount



For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

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

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

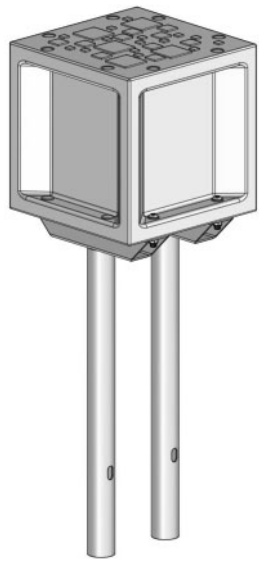
Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

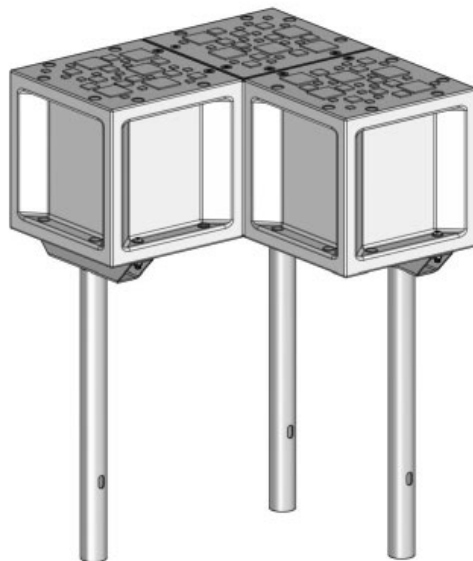
Item in Question	Description of Problem	Corrective Action	Date

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





ZZUN7097



ZZUN7099

Assembly View (representative models)

Part Number	Installation Time	Concrete Required
ZZUN7097	0.5 man-hours	0.03 cubic yard (0,02 cubic meters)
ZZUN7097S	0.25 man-hours	N/A
ZZUN7099	1 man-hour	0.09 cubic yard (0,06 cubic meters)
ZZUN7099S	0.5 man-hours	N/A
ZZUN7118	0.25 hours	N/A
ZZUN7119	0.25 hours	N/A
ZZUN7126	0.25 hours	N/A

Installation Instructions

Universal Models ZZUN7097, ZZUN7097S, ZZUN7099, ZZUN7099S, ZZUN7118, ZZUN7119 and ZZUN7126

Climbing Squares Layout #1 and #3

In-Ground, Surface Mount and *Surface Mount for 4.25 in. Surfacing

Installation Preparation

Recommended Crew: Two (2) adults

Installation Time: Refer to the table at left

Concrete Required (in-ground): Refer to the table at left

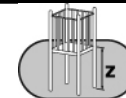
Use Zone: Refer to Master Drawing

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

ICON KEY



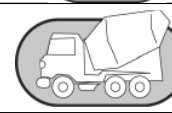
Fully Tighten Hardware



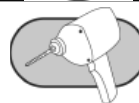
Critical Fall Height



Do **Not** Fully Tighten Hardware



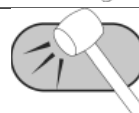
Pour Concrete



Drill



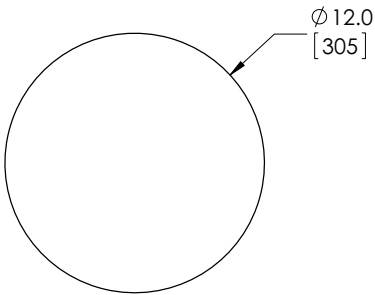
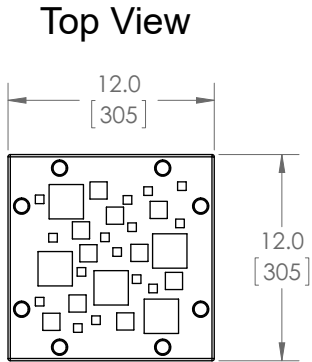
Dig Footing Holes



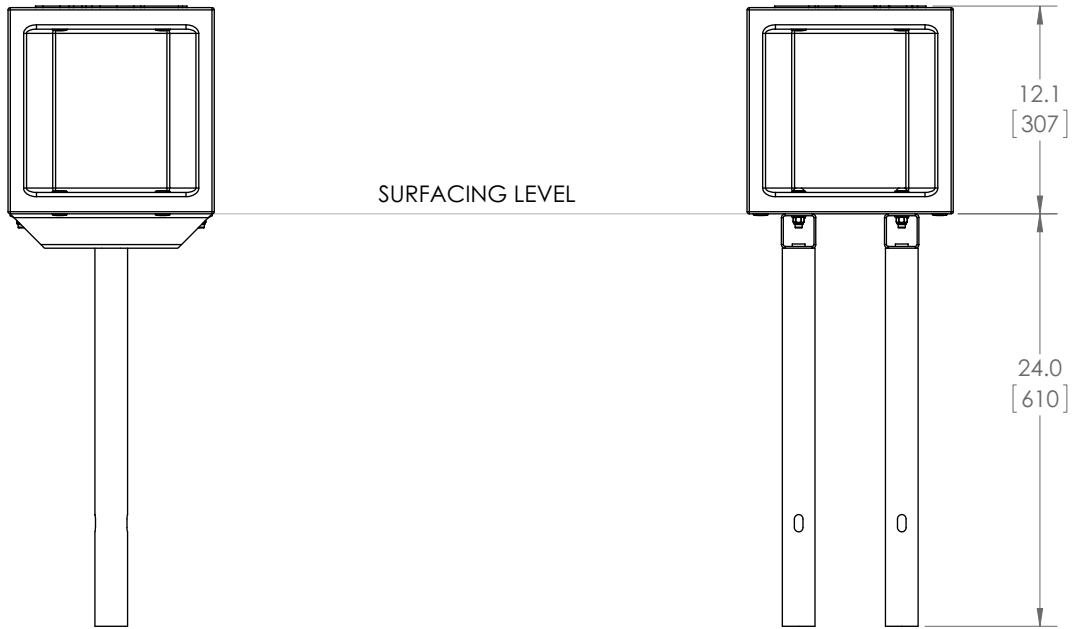
Hammer

Installation Instructions

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



Footing Diagram

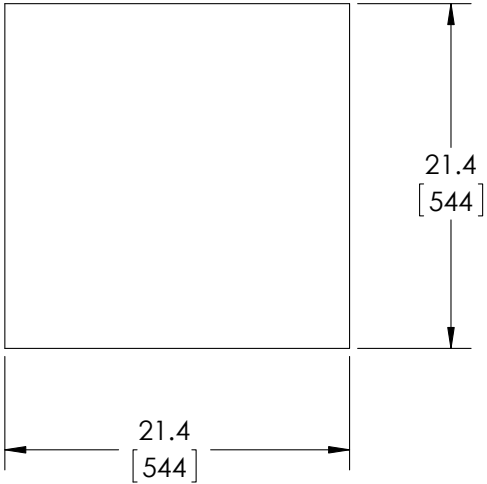
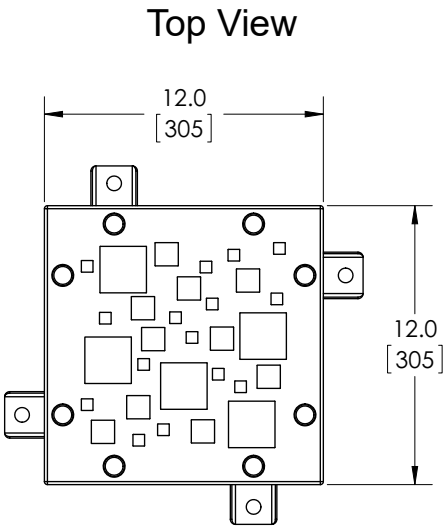


Elevation Views
ZZUN7097

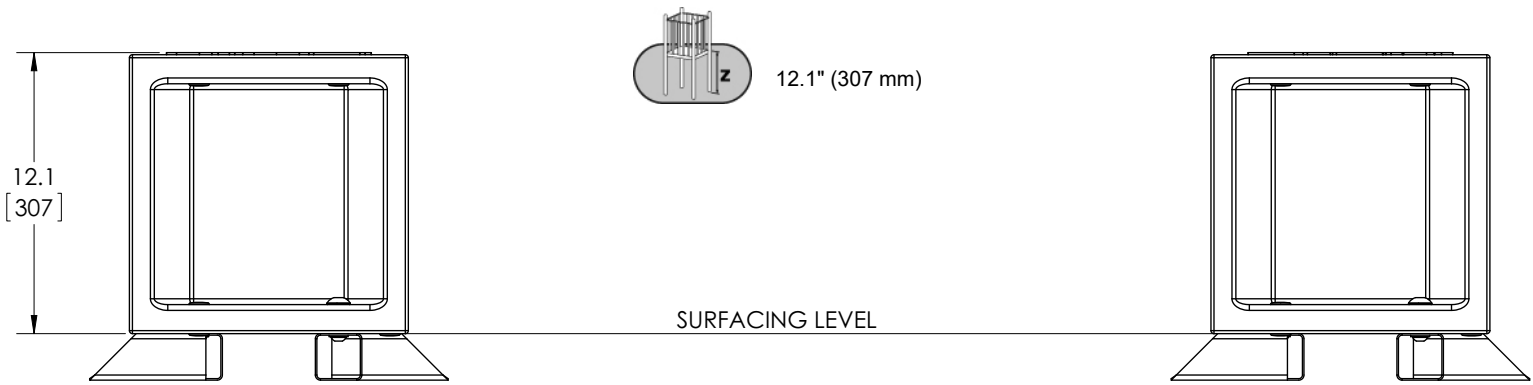


Installation Instructions

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



Footing Diagram



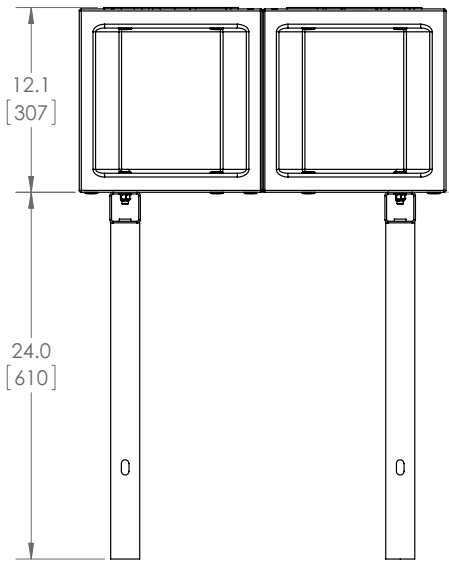
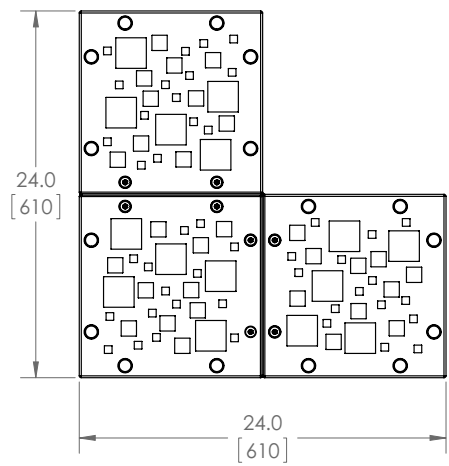
Elevation Views
ZZUN7097S



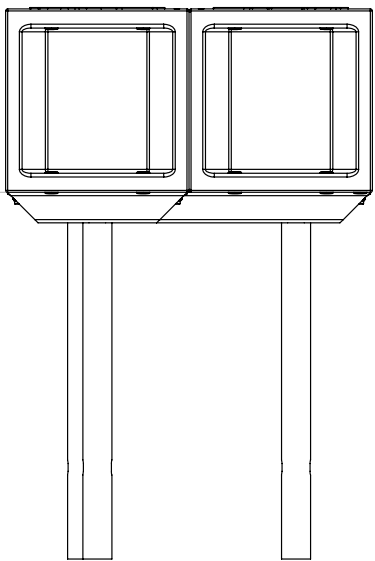
Installation Instructions

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

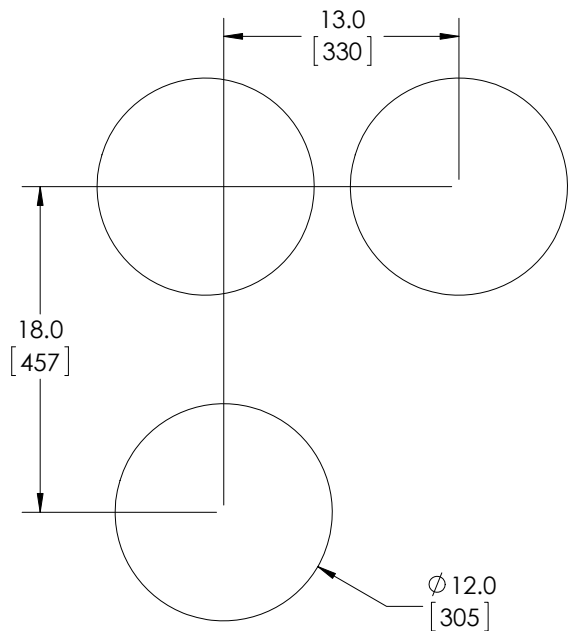
Top View



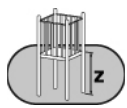
SURFACING LEVEL



Elevation Views
ZZUN7099



Footing Diagram



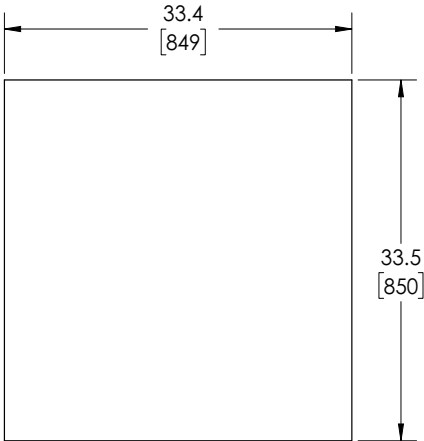
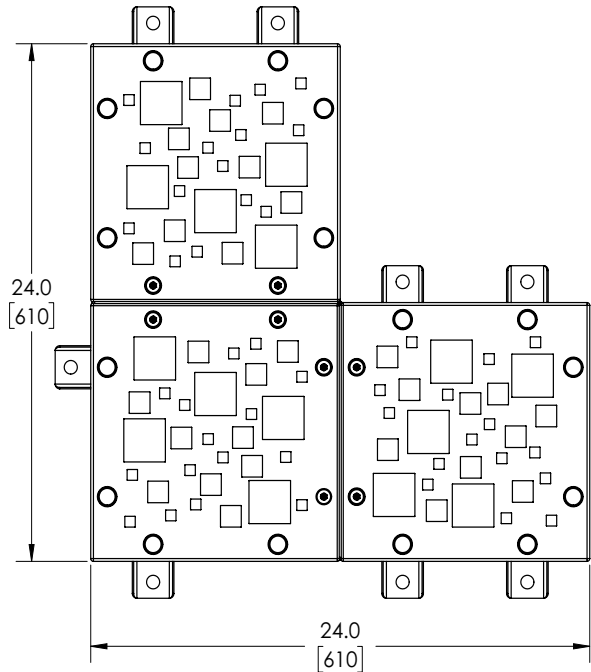
12.1" (307 mm)



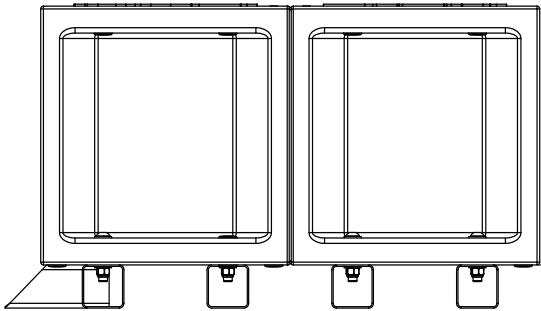
Installation Instructions

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

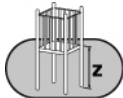
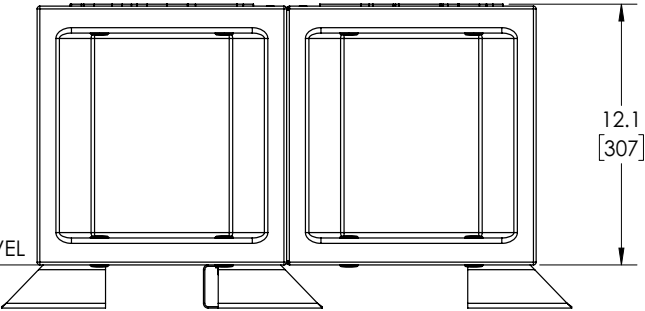
Top View



Footing Diagram



SURFACING LEVEL

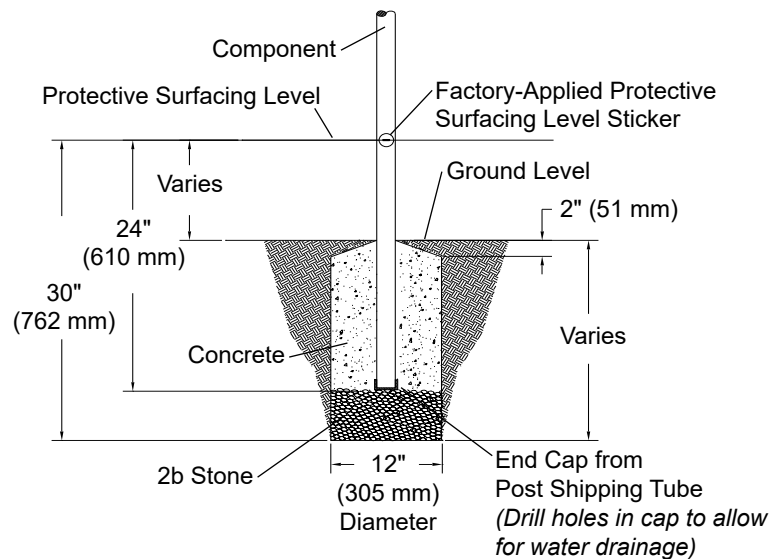


12.1" (307 mm)

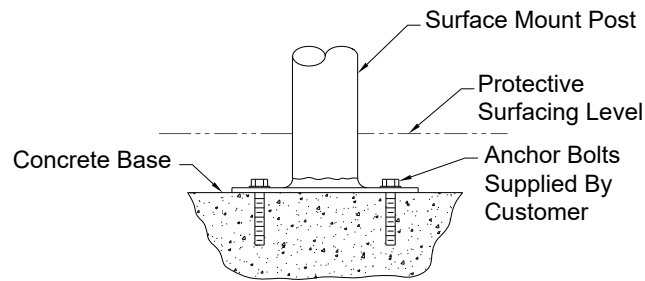
Elevation Views
ZZUN7099S



Installation Instructions



Component Footing Detail (ASTM/CSA)



Surface Mount Footing Detail

FOOTING NOTES

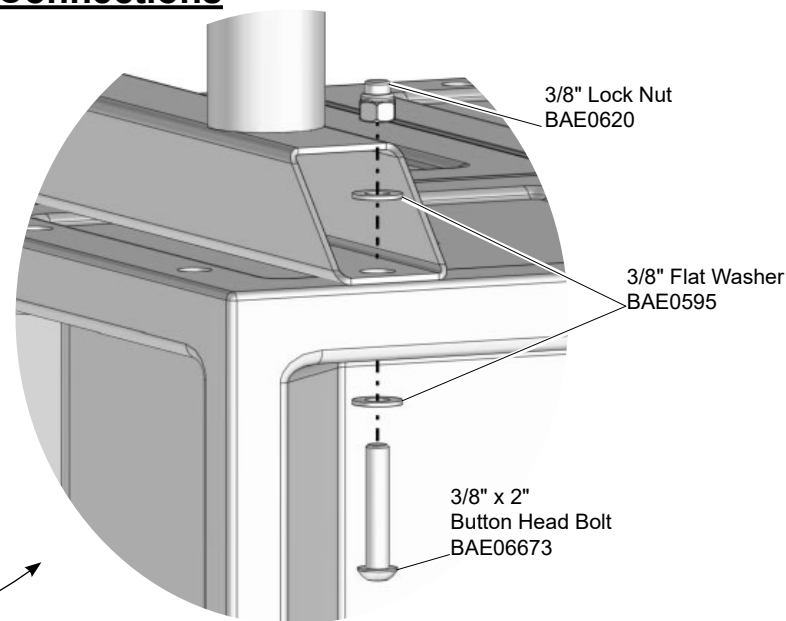
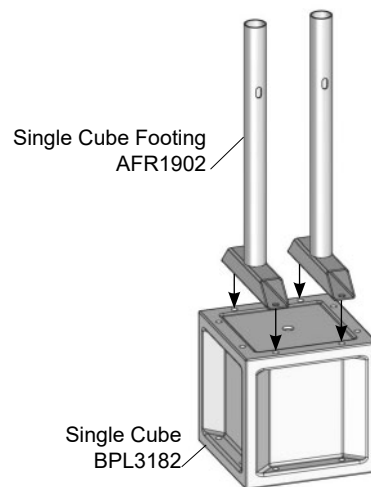
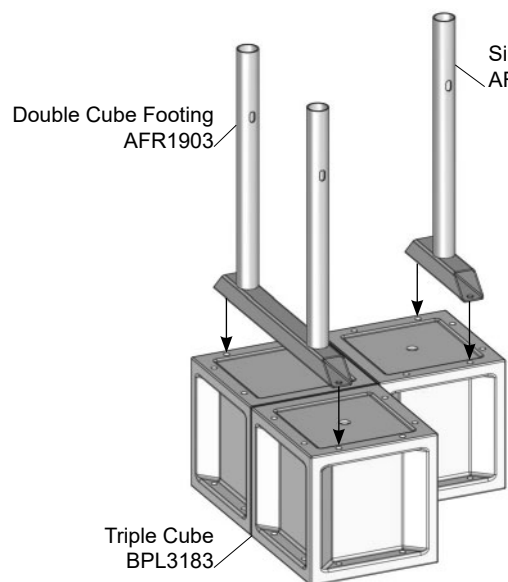
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on 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.
- Comparison of protective surfacing materials is available in Handbook for Public Playground Safety published by U. S. Consumer Product Safety Commission.

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



Installation Instructions

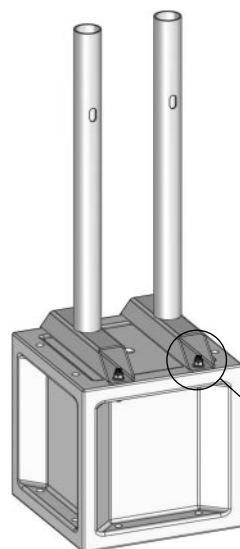
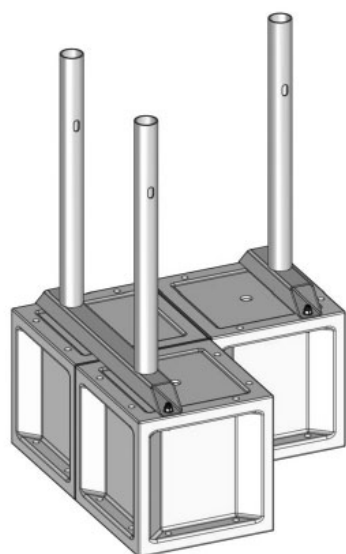
Common Climbing SquaresConnections



Connection A

(In-Ground Model Only)

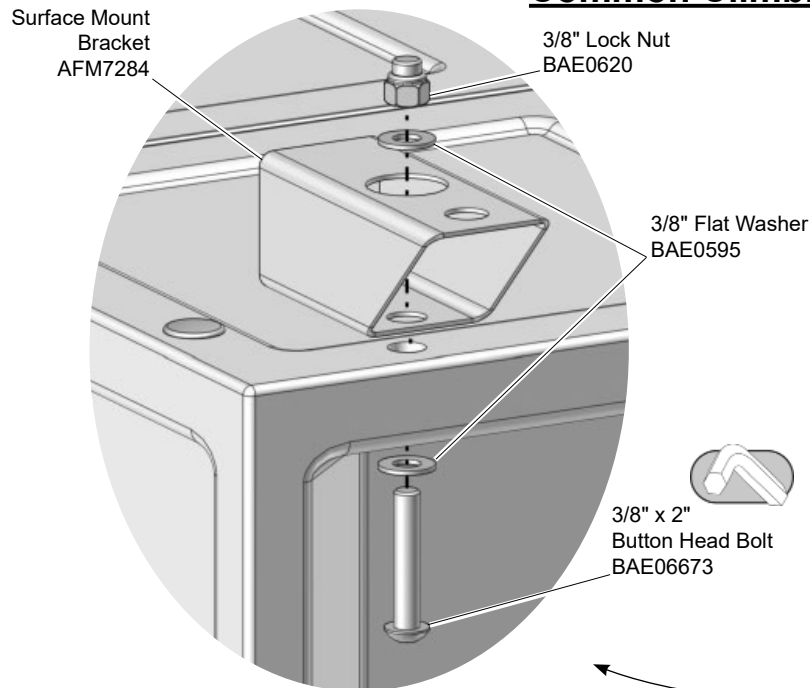
Attach the footing legs to the bottom of the cube assembly.



In-ground Mount Only: Attach the footing legs to the bottom side of the cubes (the bottom is the "non-treaded" side). The Triple Cube will require one double cube footing and one single cube footing and the Single Cube will require two single cube footings.

Installation Instructions

Common Climbing Squares Connections

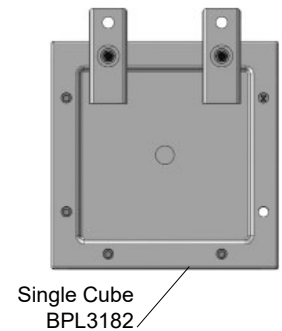
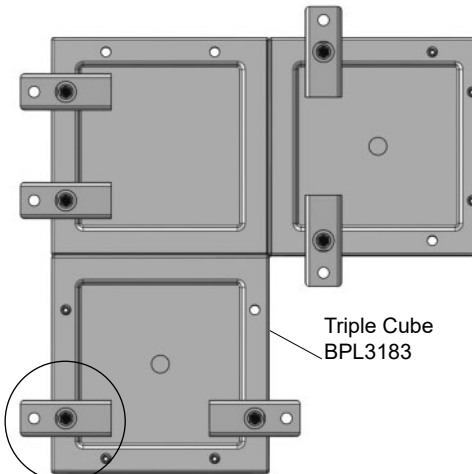


Connection B

Surface Mount Only

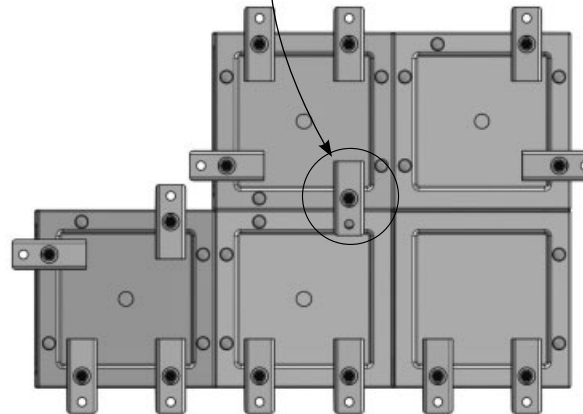
Attach the surface mount brackets to the bottom of the cubes.

Location of the brackets may vary depending on the cube assembly. Refer to the installation instruction for your specific layout. These views are for reference only.



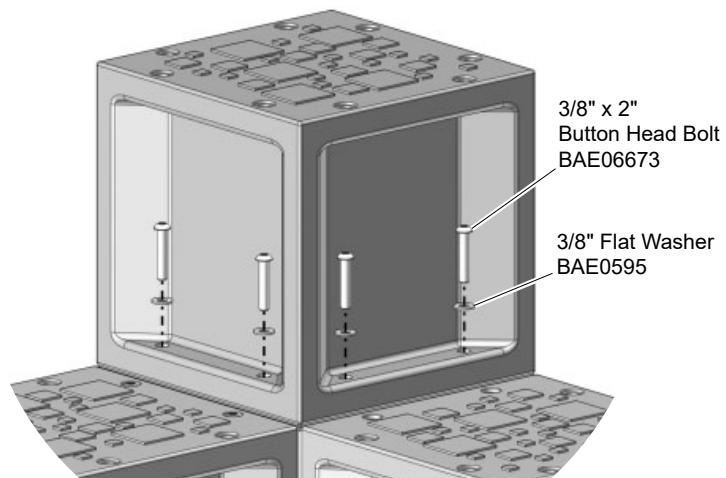
Surface Mount Only: Attach the surface mount brackets to the bottom side of the cubes (the bottom is the "non"treaded" side). The angled edge of the brackets should be pointing to the outside.

Note: There may be a surface mount bracket that could be located in the middle of the Climbing Squares configuration, that bracket is not required to be anchored to the concrete base, however it must be installed to support the cubes.



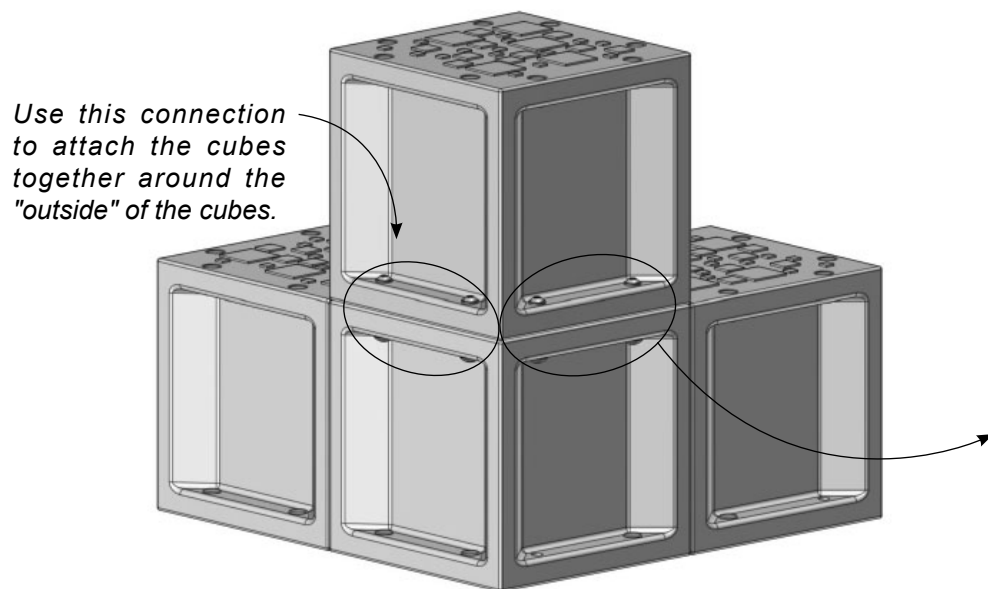
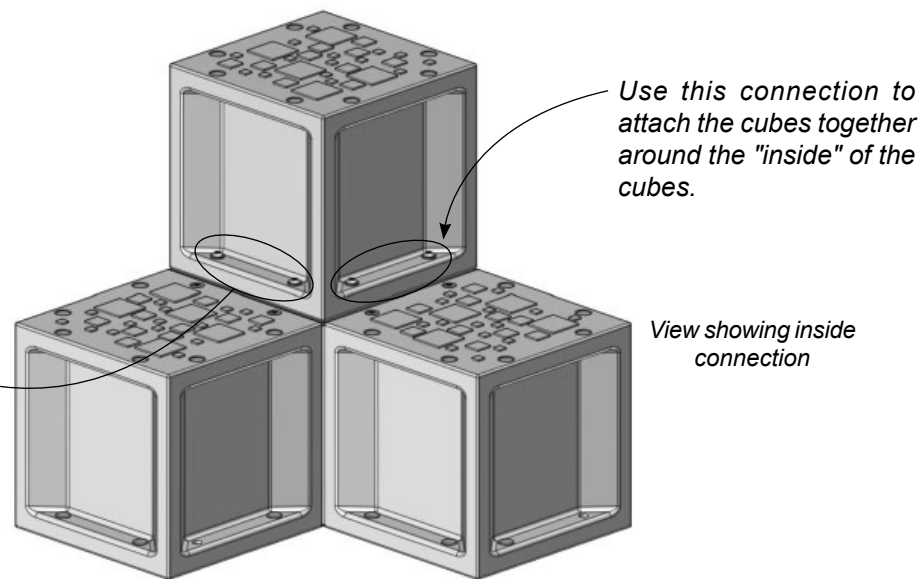
Installation Instructions

Common Climbing SquaresConnections

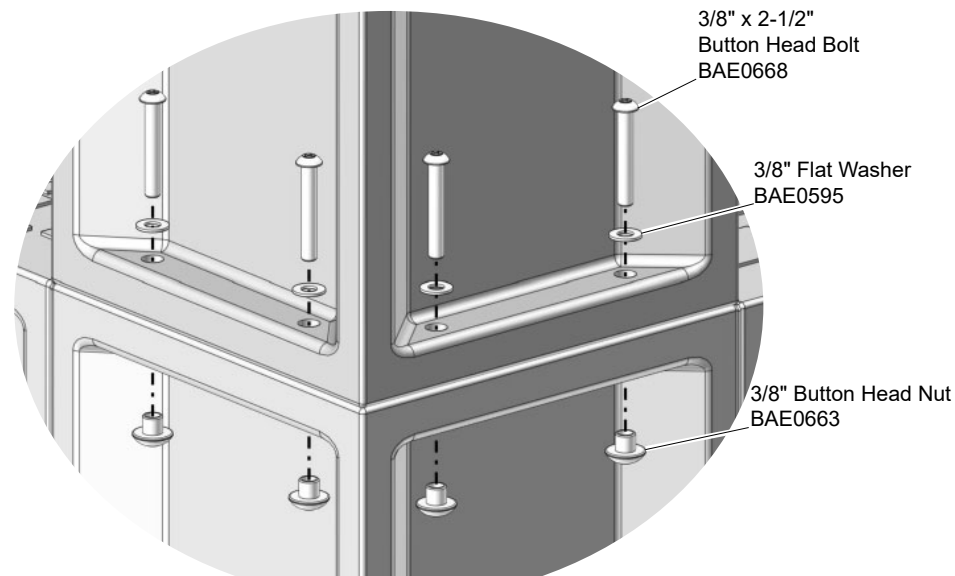


Connection C

Inside connection for cube to cube.



View showing outside connection

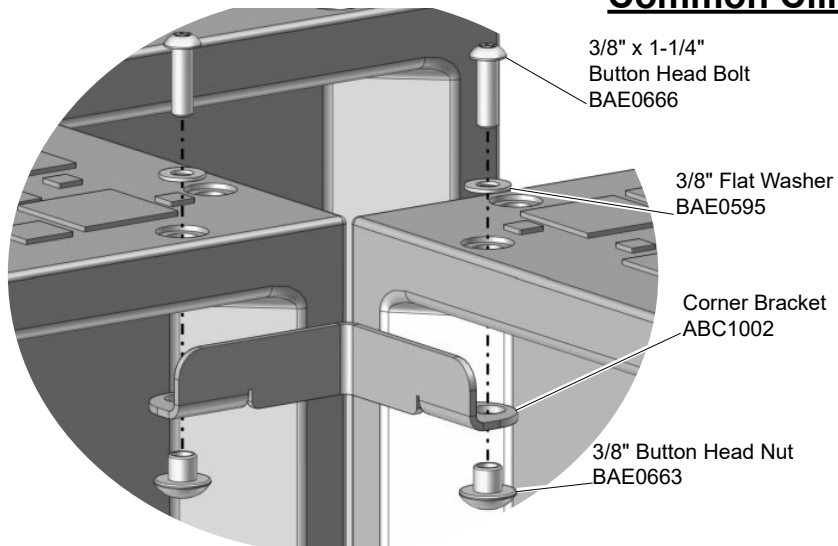


Connection D

Outside connection for cube to cube.

Installation Instructions

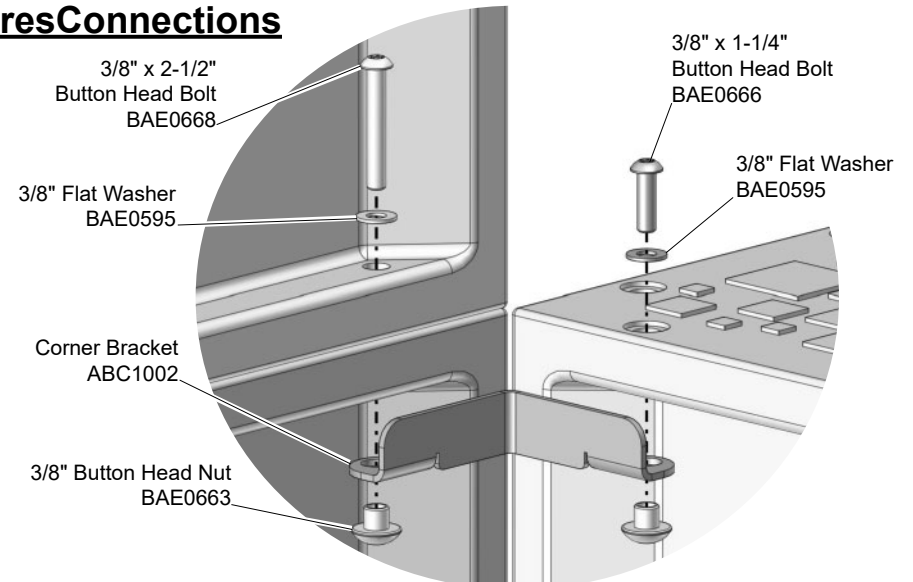
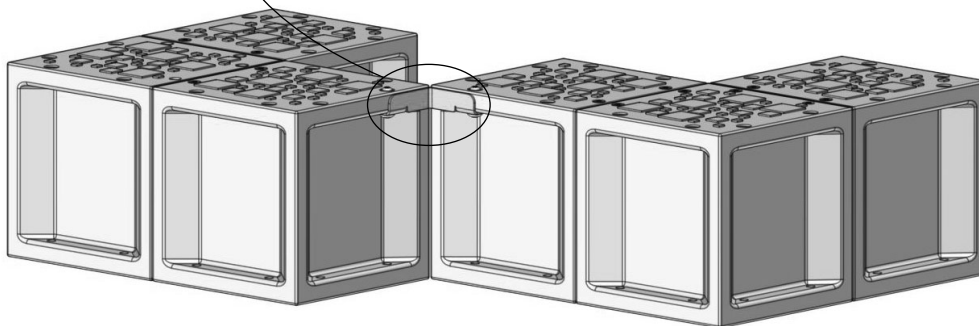
Common Climbing Squares Connections



Connection E

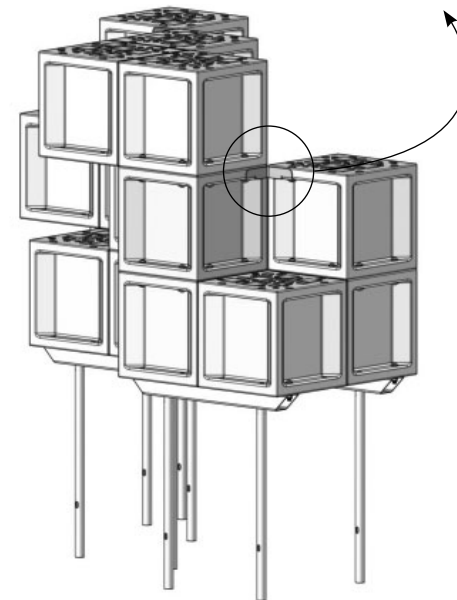
Attach the corners of the cubes using the corner bracket.

Note: The corner to corner bracket should be used to attach cubes in the same layer that are facing corner to corner at the highest exposed level.



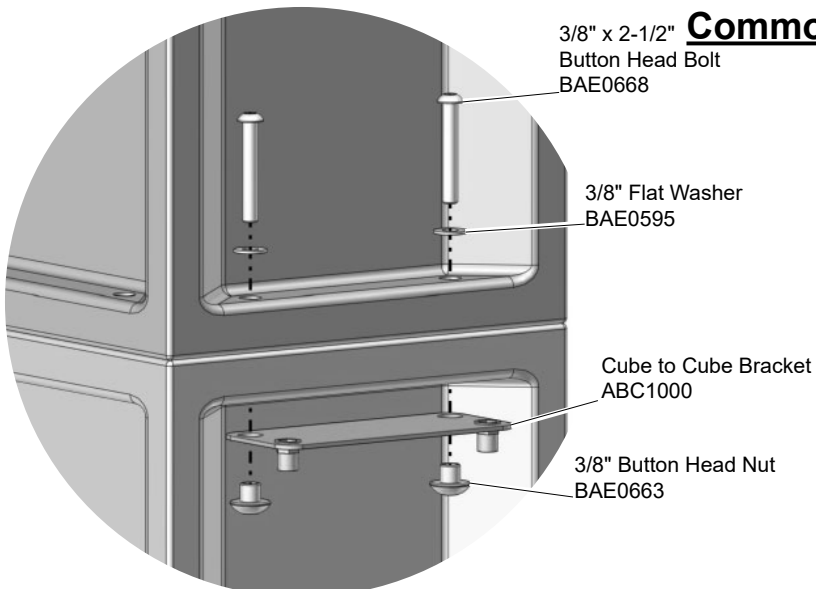
Connection F

Attach the corners of the cubes using the corner bracket. Use this connection if there is another cube to be attached on top.



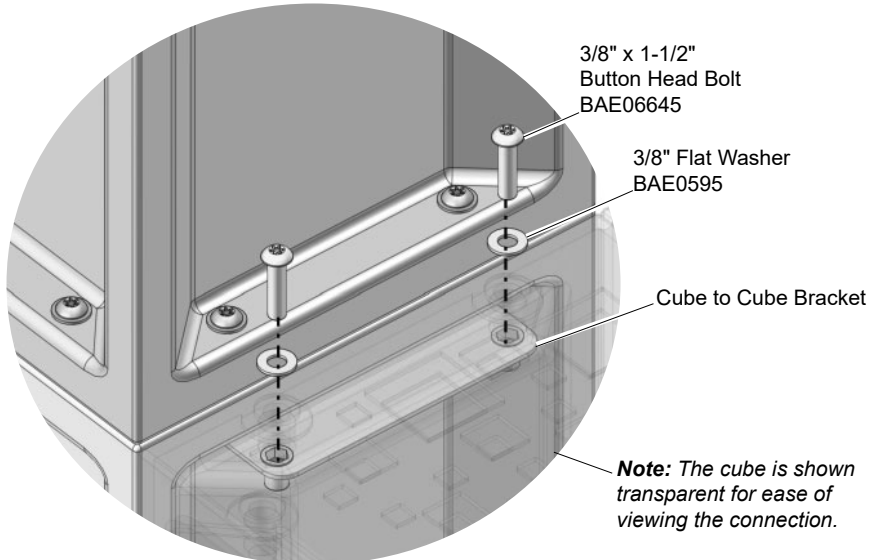
Installation Instructions

Common Climbing Squares Connections



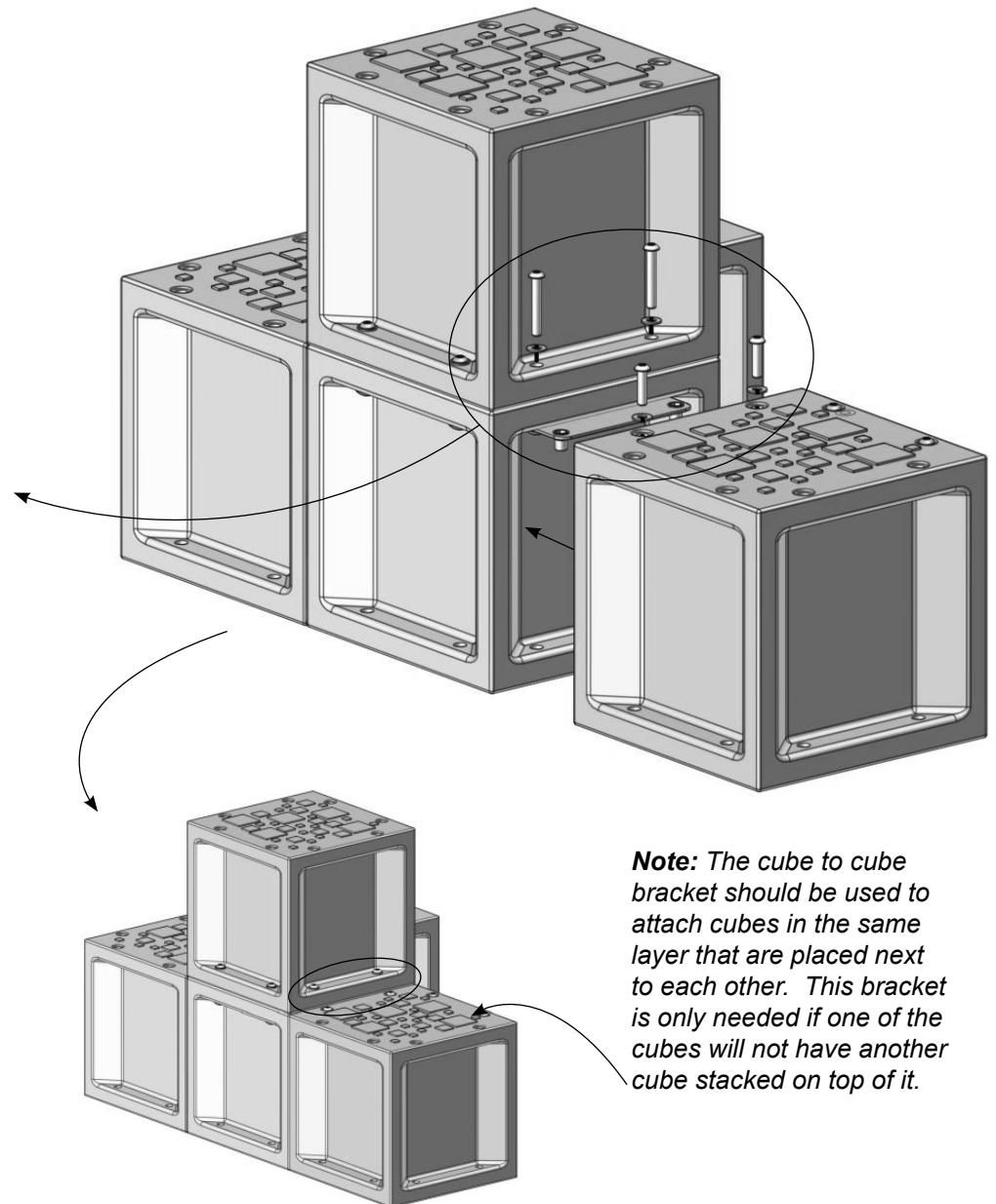
Connection G-1

Attach the cube to cube bracket to the underside of the cube.



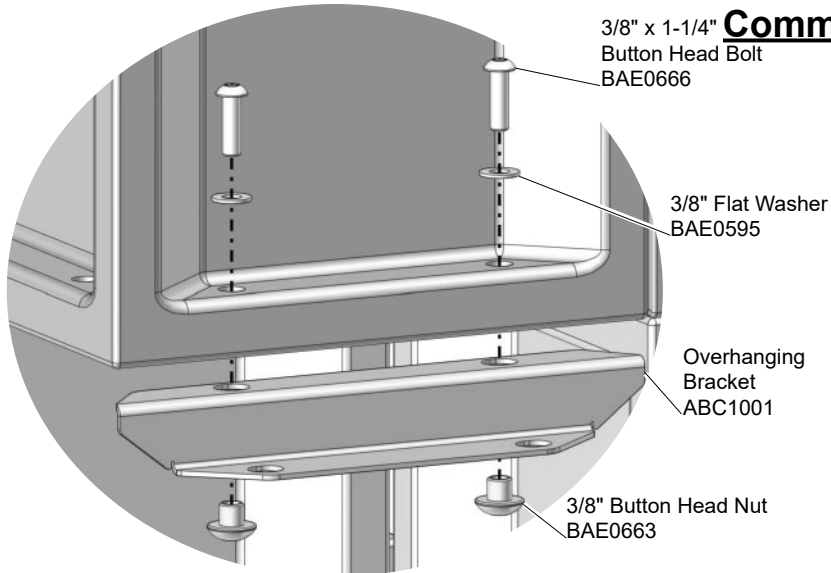
Connection G-2

Place another cube over the bracket and attach as shown.



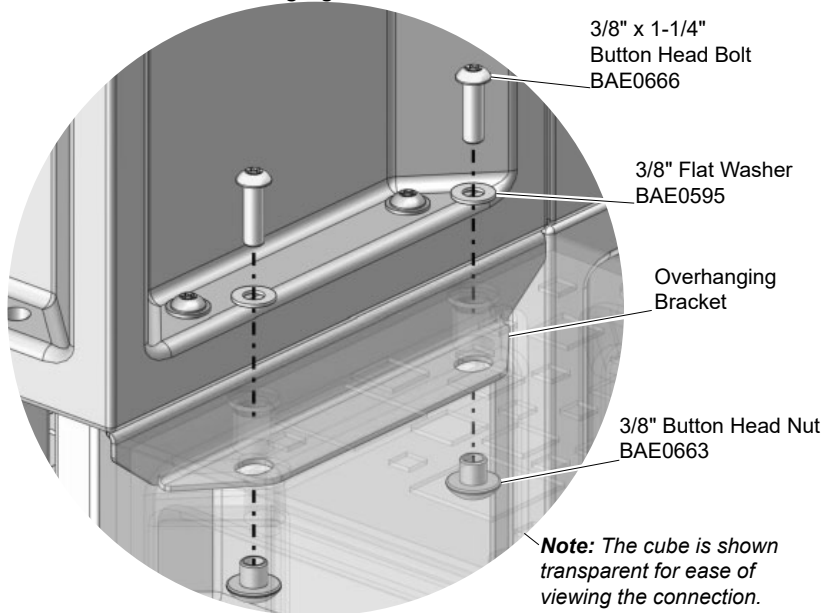
Installation Instructions

Common Climbing Squares Connections



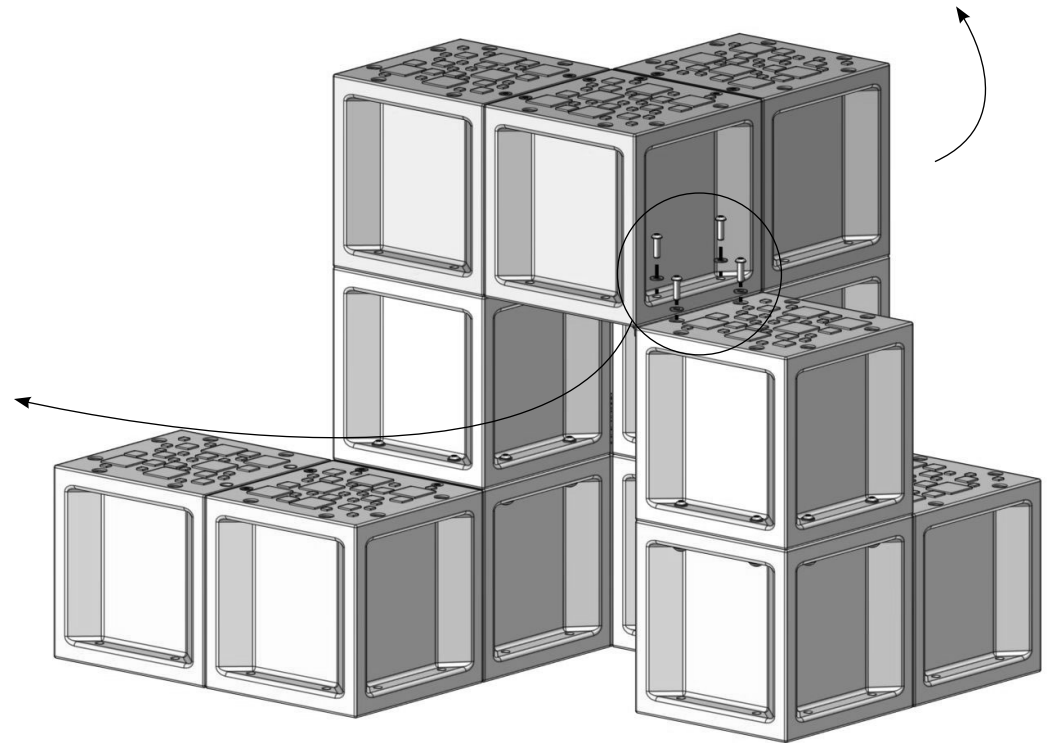
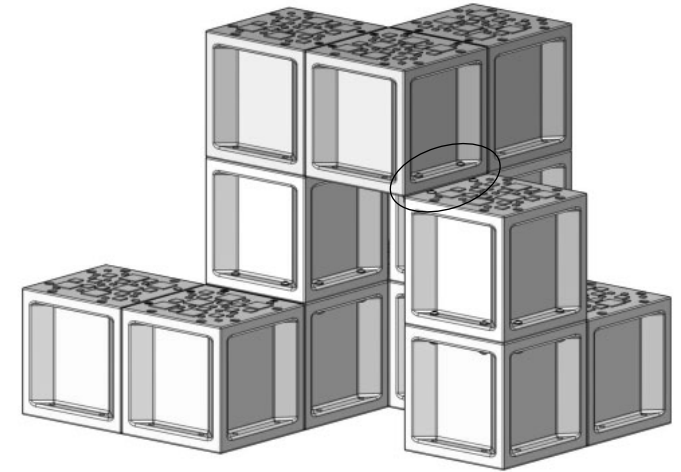
Connection H-1

Attach the overhanging bracket to the underside of the cube.



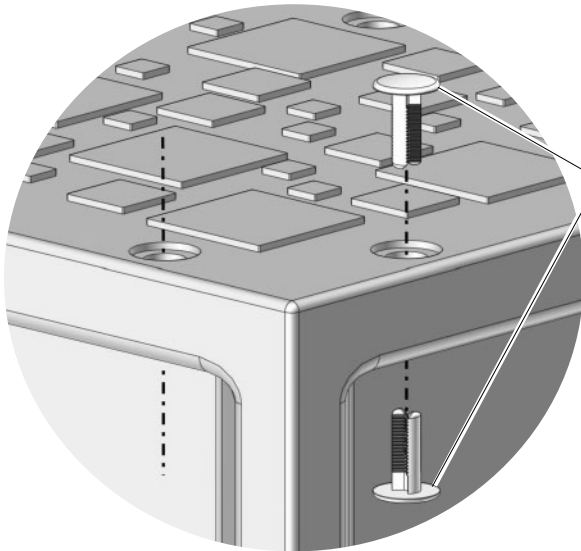
Connection H-2

Place another cube over the bracket and attach as shown.



Installation Instructions

Common Climbing SquaresConnections

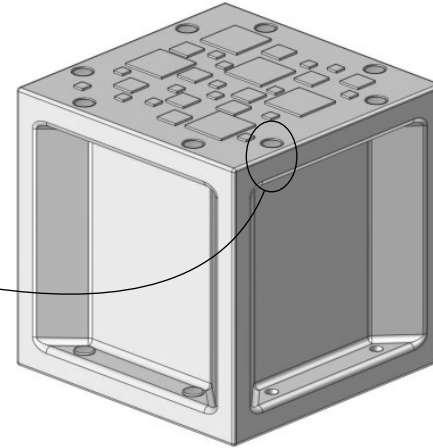


Ratchet Rivet
BPL3193

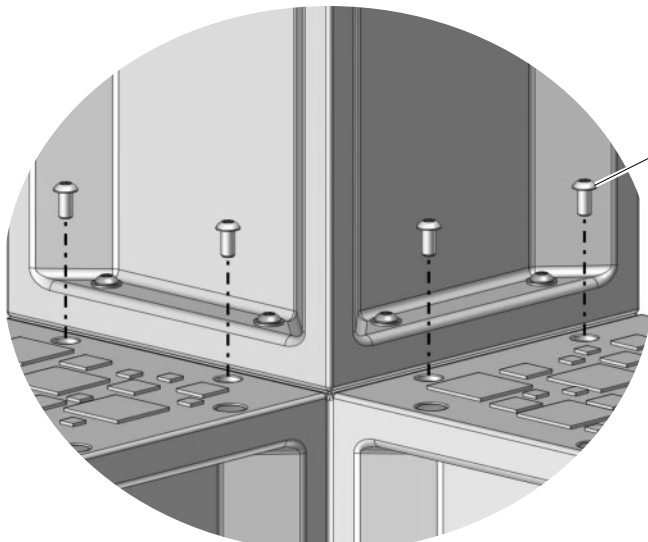
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Connection J

Plug empty holes on cubes.



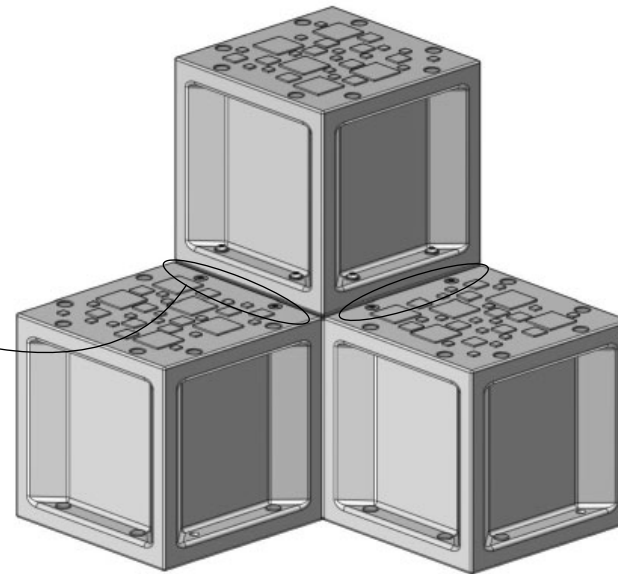
The ratchet rivets are used to fill any empty hole (around the outside of the cube) when done assembling the cubes. Place a rivet on the top and bottom of each empty hole and press together until flush with the cube.



3/8" x 3/4"
Button Head Bolt
BAE0659

Connection K

Fill inserts on top of cubes.

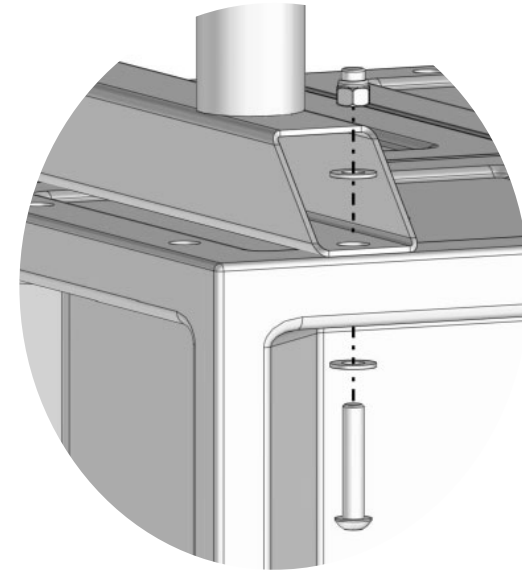
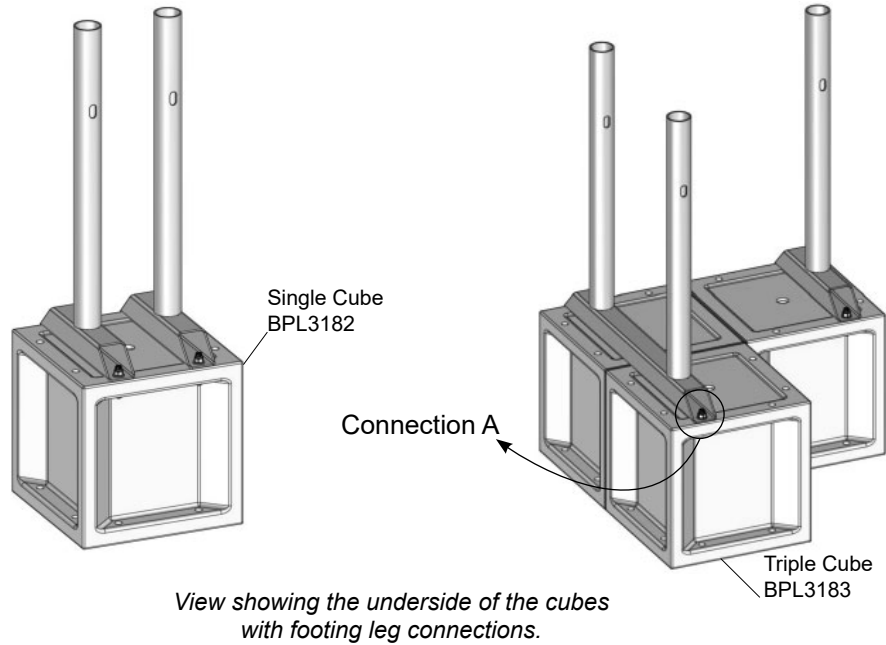


Fill any empty inserts on the top of the Triple Cubes when done assembling the cubes. The inserts are located around the inside of the Triple Cubes.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 17.

Important Note: Reference the Master Drawing for the layout / configuration of the cubes.



Connection A

Step 4

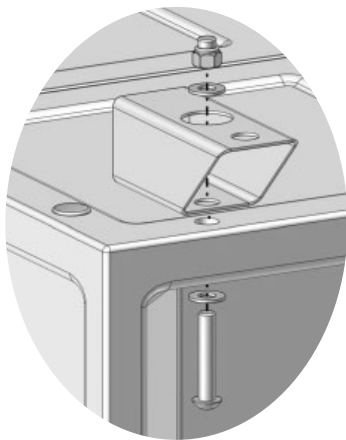
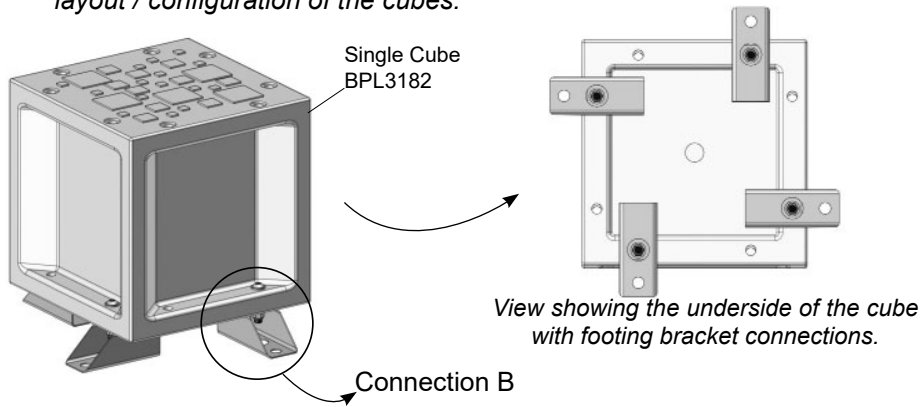
(In-ground Mount Only)

Attach the footing legs to the bottom of the cubes.

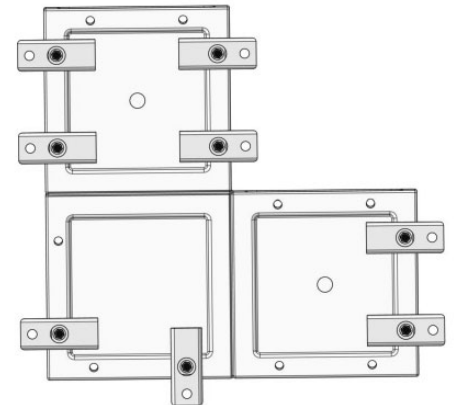
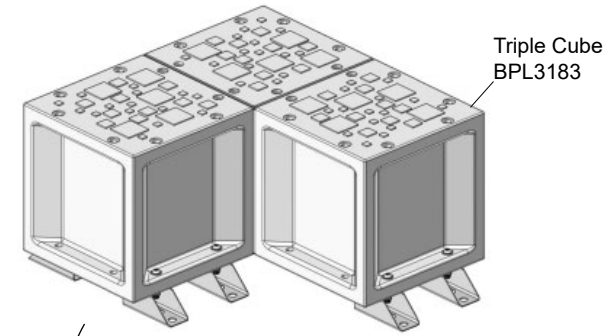


Installation Instructions

Important Note: Reference the Master Drawing for the layout / configuration of the cubes.



Connection B



View showing the underside of the cube
with footing bracket connections.

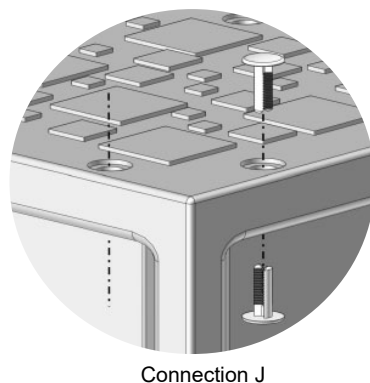
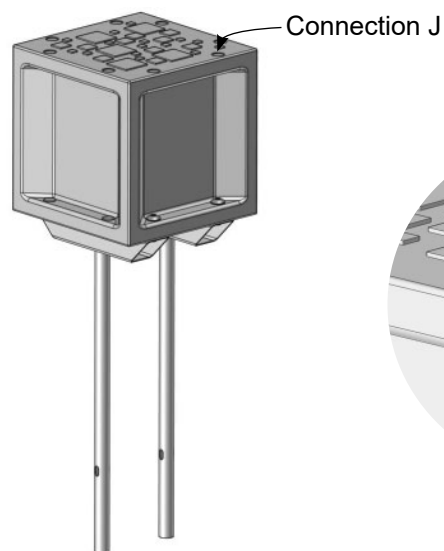
Step 5 (Surface Mount Only)



Attach the footing brackets to the bottom of the cubes.

Note: There may be a surface mount bracket in the middle of the Climbing Squares configuration that is not required to be anchored to the concrete base. It must be installed to support the cubes.

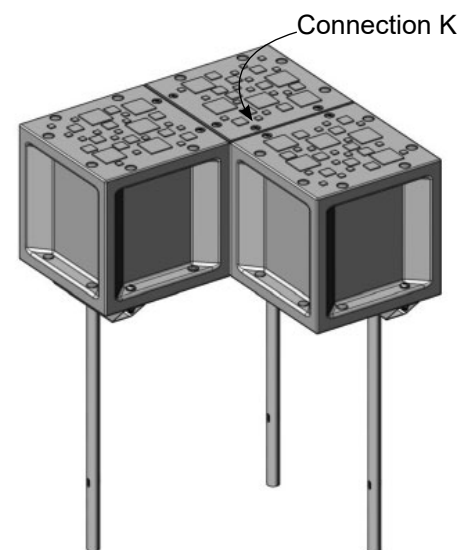
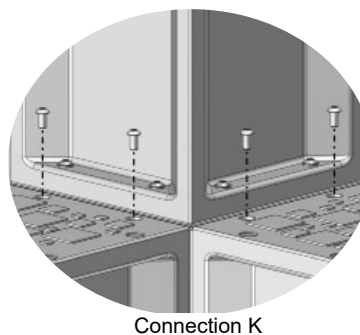
Installation Instructions



Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Step 6

Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes.



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing Detail or Surface Mount Footing Detail** on page 6 of this installation document.

Step 4 (In-ground Mount Only): Attach the footing legs to the 1st layer of cubes. See **Page 13, Connection A**. Turn the cubes upside down, position the footing legs on the cubes, align the holes, and attach as shown. Refer to **Page 13** for the placement of the footing legs.

Step 5 (Surface Mount Only): Attach the footing brackets to the 1st layer of cubes. See **Page 14 / Connection B**. Turn the cubes upside down, position the brackets on the cubes, aligning the holes. The angled edges of the surface mount brackets should be pointing to the outside. Attach as shown. See **Page 14** for placement of the footing brackets.

Step 6: Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes. See **Page 15**. To fill the empty holes on the **outside** rim of the cubes, place a ratchet rivet in the top and bottom of the hole and press together until flush with the cube (See **Connection J**). To fill the empty holes on the inside holes on the tops of the Triple Cubes and insert the bolts in the holes as shown (See **Connection K**).

Final Details.

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

Torque Specifications:

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

Step 8 (In-ground Mount Only): Plumb and level entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 9 (Surface Mount Only): Plumb and level entire component. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

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

ZZUN7097 - CLIMBING SQUARES LAYOUT #1

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3182	SINGLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	24

ZZUN7097S - CLIMBING SQUARES LAYOUT #1 SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3182	SINGLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	24

ZZUN7099 - CLIMBING SQUARES LAYOUT #3

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	1
AFR1903	FOOTING - DOUBLE CUBE	1
BAE0595	WASHER - 3/8" SAE FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	56

ZZUN7099S - CLIMBING SQUARES LAYOUT #3 SM

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	8
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	48

ZZUN7118 - CLIMBING SQUARES CORNER TO CORNER BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1002	PLATE - 5.00" x 5.00" x .88"	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	2

ZZUN7119 - CLIMBING SQUARES PLANE TO PLANE BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1000	PLATE - 7.00" x 2.88" x 12 GA	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	2
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	2
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - S.S.	2

ZZUN7126 - CLIMBING SQUARES OVERHANGING BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1001	PLATE - 11.75" x 2.69" x 1.50"	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S	4



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intentionally left blank.

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are: Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

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

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

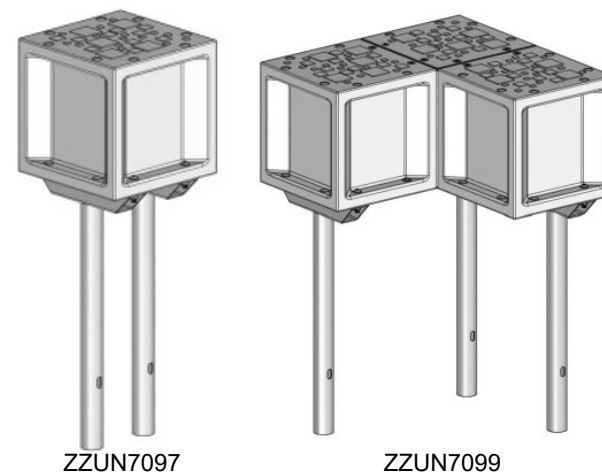
Replacement Parts

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

Equipment Maintenance

Universal Models ZZUN7097,
ZZUN7097S, ZZUN7099,
ZZUN7099SE, ZZUN7118,
ZZUN7119 and ZZUN7126

Climbing Squares Layout #1 and #3
In-Ground and Surface Mount



Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

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

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

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

MAINTENANCE SCHEDULE

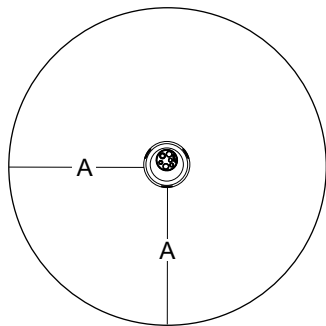
Item in Question	Description of Problem	Corrective Action	Date

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





Assembly View (representative model)



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 1500 mm

Installation Instructions

Universal Models UN7136 and UN7136S


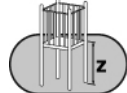

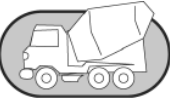


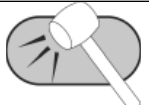
Unity Stepper (Small)

In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (in-ground): 1 man-hour
Installation Time (surface mount): 0.5 man-hour
Concrete Required: 0.13 cubic yard (0,10 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

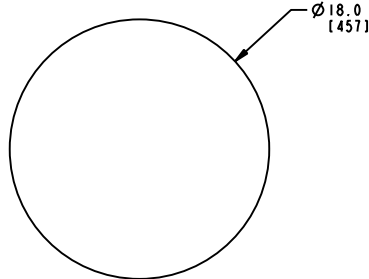
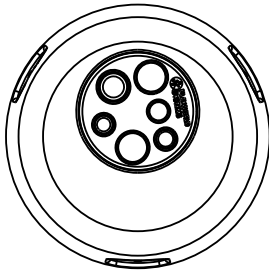
ICON KEY

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

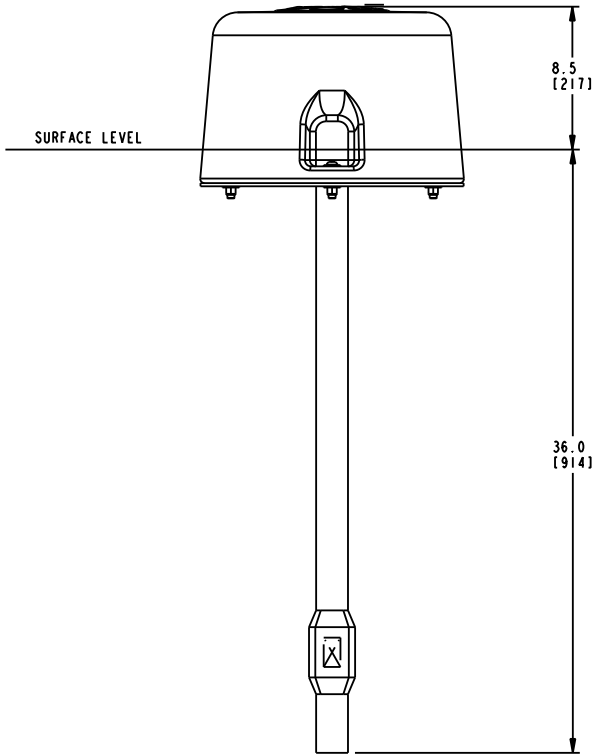
Installation Instructions

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

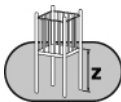
Top View



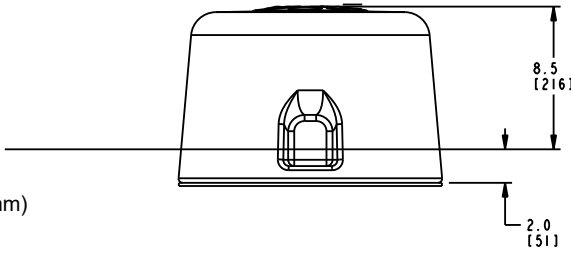
Footring Diagram



Elevation Views
UN7136



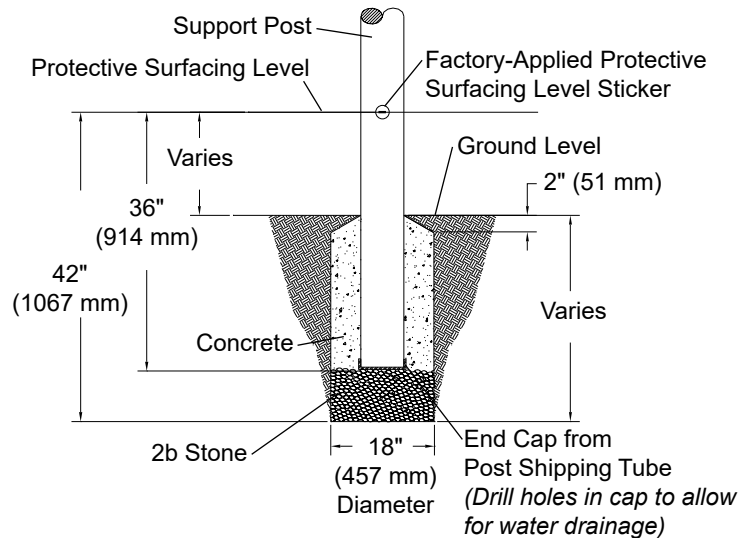
ASTM/CSA: 8.5" (217 mm)
EN: 217 mm



Elevation Views
UN7136S



Installation Instructions



Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

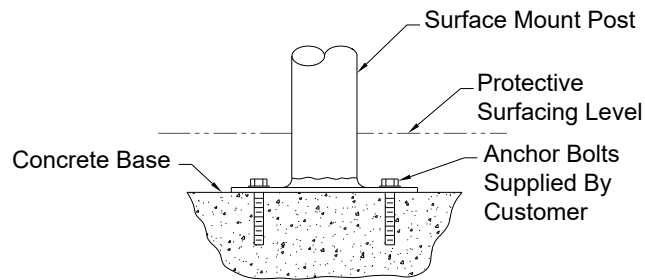
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions



Surface Mount Footing Detail

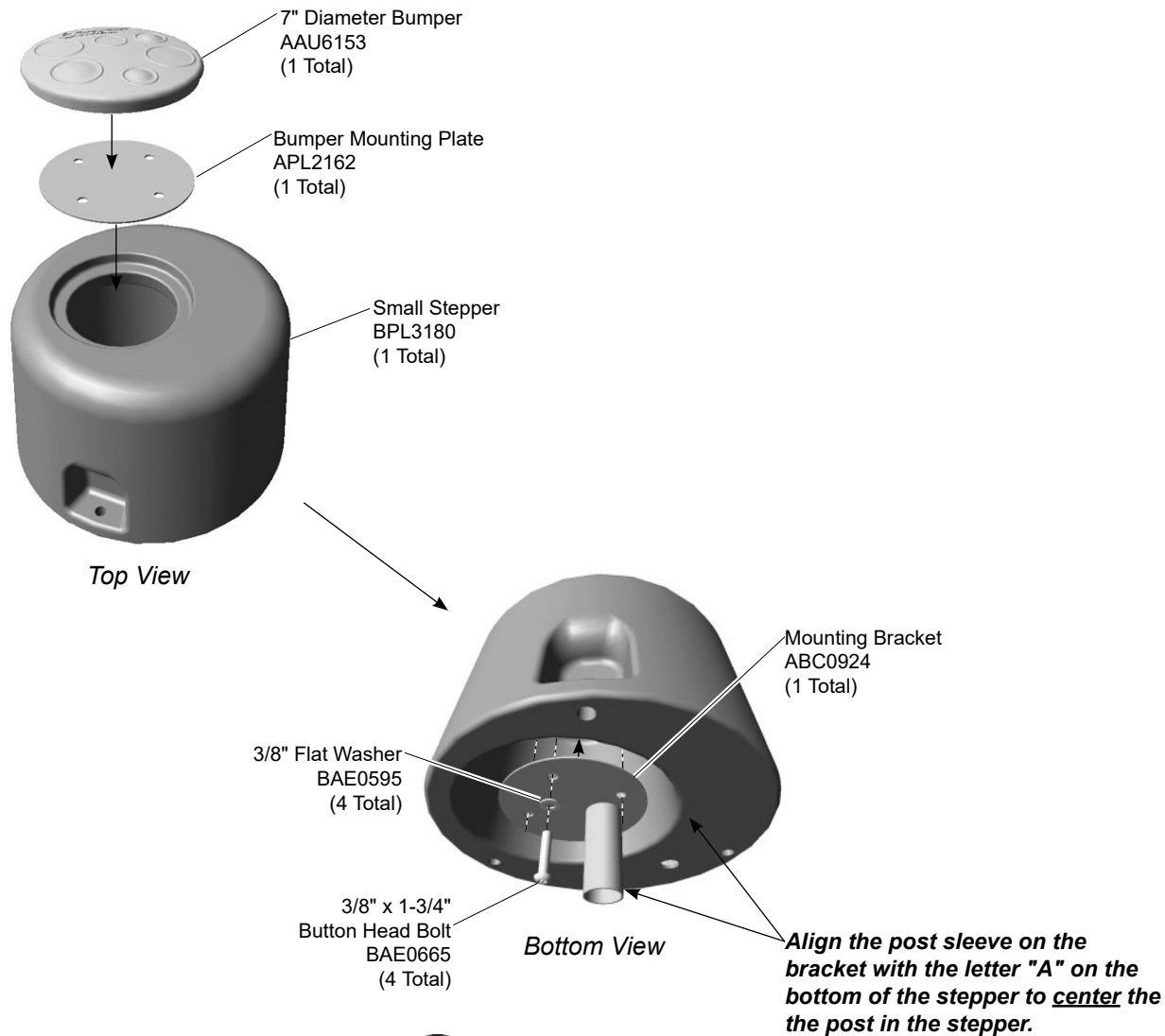
FOOTING NOTES

- All support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in [Handbook for Public Playground Safety](#) published by U. S. Consumer Product Safety Commission.

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

Installation Instructions

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



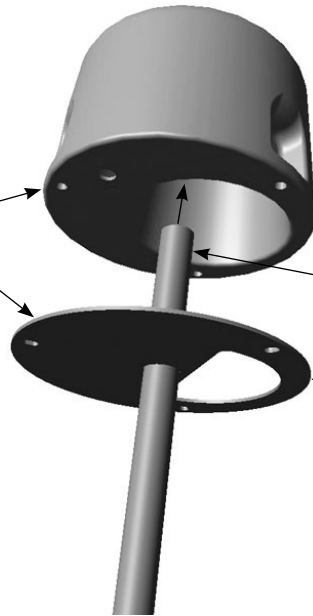
Detail A
Step 4



Assemble the stepper.

Installation Instructions

Important Note: The wide part of the anchor plate must align with the wide portion of the stepper. Ensure the holes in both are also aligned. Then fully tighten the connections made in Step 4.

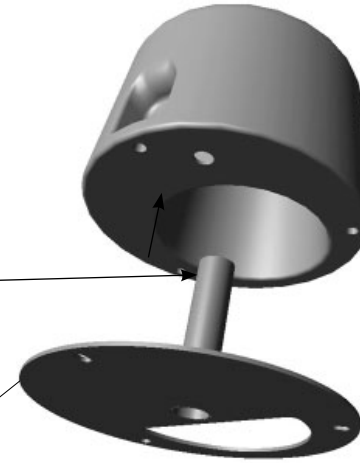


In-Ground Model

Insert over the post sleeve on the mounting bracket.

Anchor Post
APT5254
(1 Total)

Anchor Bracket
APT5299
(1 Total)

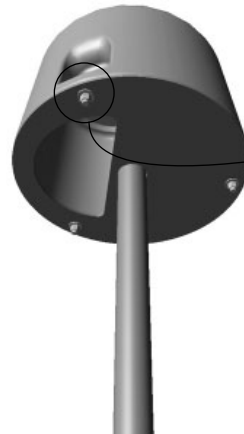


Surface Mount Model

Detail B Step 5



Position the anchor post/bracket inside the stepper.



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

1" O.D. Flat Washer
BAE0600
(6 Total)

3/8" Lock Nut
BAE0620
(3 Total)

Detail C Step 6



*(In-Ground Model Only)
Attach the anchor post to the stepper.*

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Support Post Footing Detail or Surface Mount Footing Detail** on pages 3 and 4 of this installation document.

Step 4: Assemble the stepper. See **Detail A**. Place the bumper and bumper mounting plate on top of the stepper. From underneath the stepper, insert the mounting bracket up into the stepper and align with the holes in the bumper and bumper mounting plate. **Ensure the post sleeve on the bracket is aligned with the letter "A" in the bottom of the stepper.**

Step 5: Position the anchor post/bracket inside the stepper. See **Detail B**. Insert the sleeve on the anchor post/bracket over the post sleeve on the mounting bracket with the wide part of the anchor plate aligned with the wide portion of the stepper. Align the holes in the anchor plate with the holes in the stepper and then fully tighten the connections made in **Step 4**. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

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

Step 6: (In-Ground Model Only) Attach the anchor post to the stepper. See **Detail C**. Attach as shown in the detail. Fully tighten the connections according to tightening torque specifications.

Final Details.

Step 7: Place the stepper in, or on, its footing and plumb and level.

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

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

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

Step 8: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component where it can be visible.

UN7136 - UNITY STEPPER (SMALL)

PART NO.	DESCRIPTION	QTY.
AAU6153	BUMPER - 7.00" DIA INSERT	1
ABC0924	BRACKET - 6.69" DIA x 4.08"	1
APL2162	PLATE - 6.69" x 14 GA. w/ 4 HOLES	1
APT5254	POST - 15.70" x 15.70" x 42.18" SMALL	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	7
BAE0922	TOOL - TT 45 L WRENCH	1
BPL3180	SOFT ROCK - SMALL	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

UN7136S - UNITY STEPPER (SMALL) SM

PART NO.	DESCRIPTION	QTY.
AAU6153	BUMPER - 7.00" DIA INSERT	1
ABC0924	BRACKET - 6.69" DIA x 4.08"	1
APL2162	PLATE - 6.69" x 14 GA. w/ 4 HOLES	1
APT5299	POST - 15.70" x 15.70" x 8.00" SMALL (SM)	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	1
BPL3180	SOFT ROCK - SMALL	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

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

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Replacement Parts

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

Equipment Maintenance

Universal Models UN7136 and
UN7136S

Unity Stepper (Small)
In-Ground and Surface Mount



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The world needs play.™

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800-233-8404 or
570-522-9800 OUTSIDE U.S.
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www.playworldsystems.com

Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

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

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

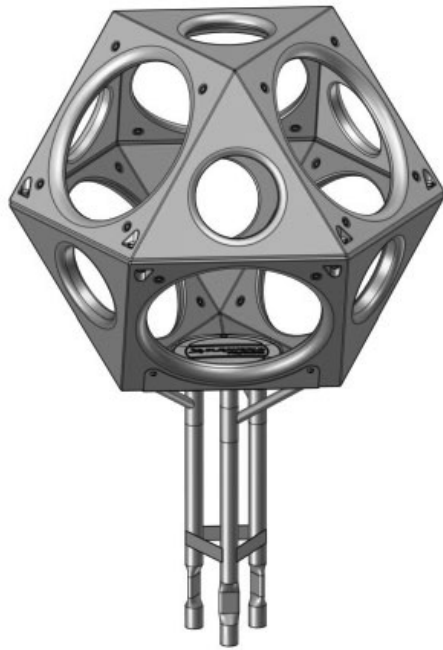
Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

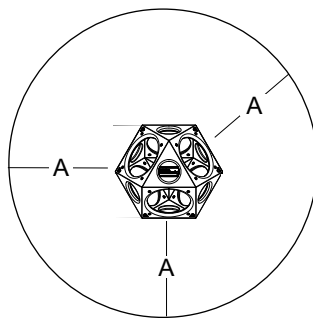
Item in Question	Description of Problem	Corrective Action	Date

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





Assembly View (representative model)



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 1500 mm

Installation Instructions

Universal Models UN8727 and UN8727S


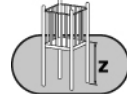

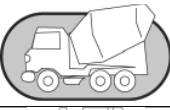


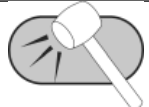
Ground Level PlayCube

In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (In-Ground): 1.5 man-hours
Installation Time (Surface Mount): 1 man-hour
Concrete Required: 0.12 cubic yard (0,09 cubic meters)
Use Zone: See the master layout drawing
User Group Age (single cube): ASTM/CSA: 2-12, EN: 2-14
User Group Age (multiple cubes): ASTM/CSA: 5-12, EN: 6-14

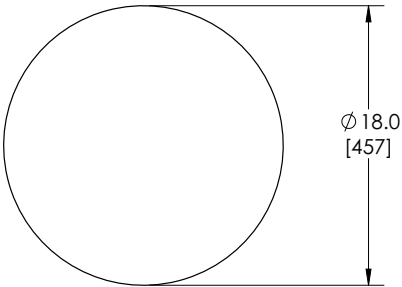
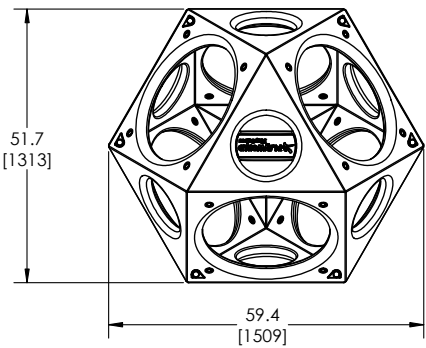
ICON KEY

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

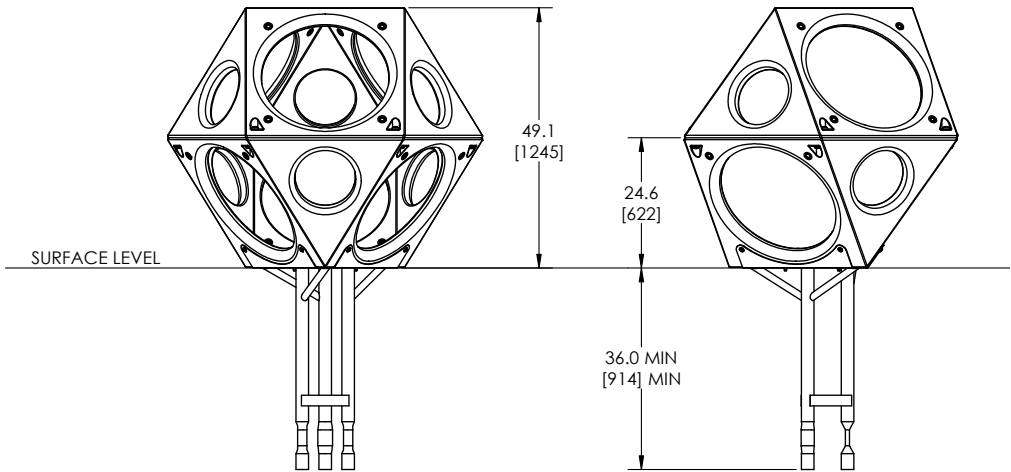
Installation Instructions

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

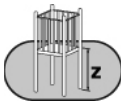
Top View



Footing Diagram



Elevation Views
UN8727

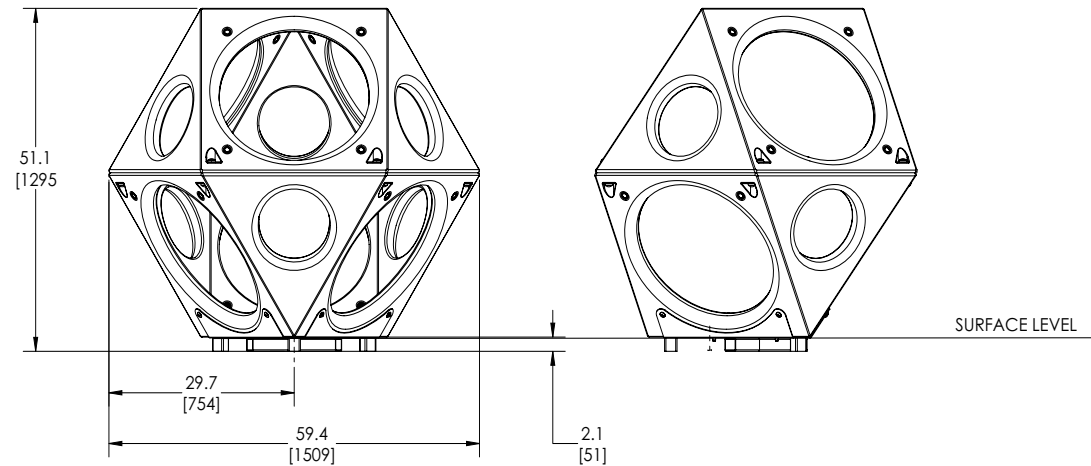
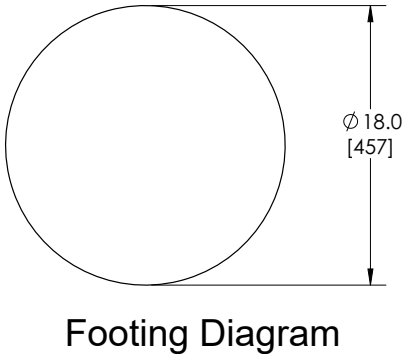
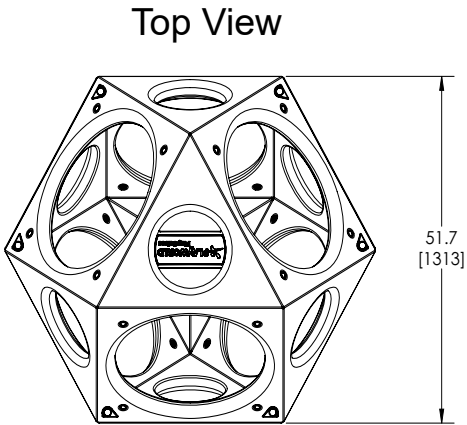


49" (1245 mm)
Footed as shown

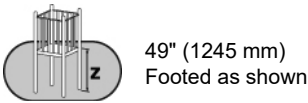


Installation Instructions

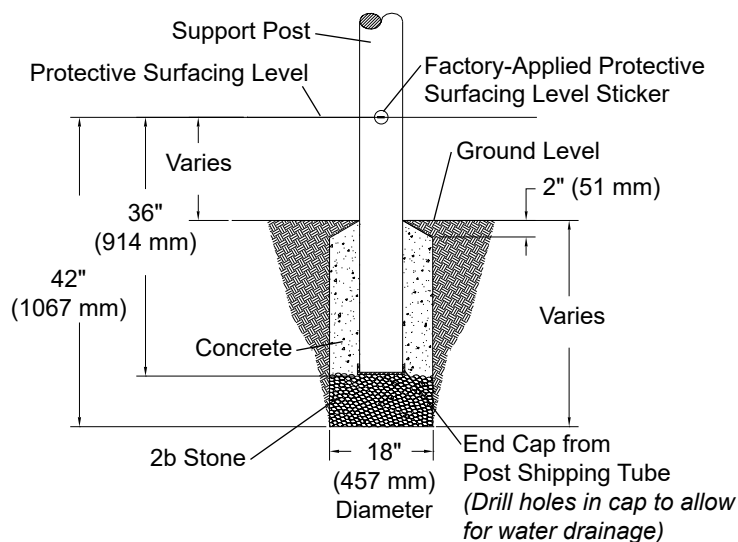
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



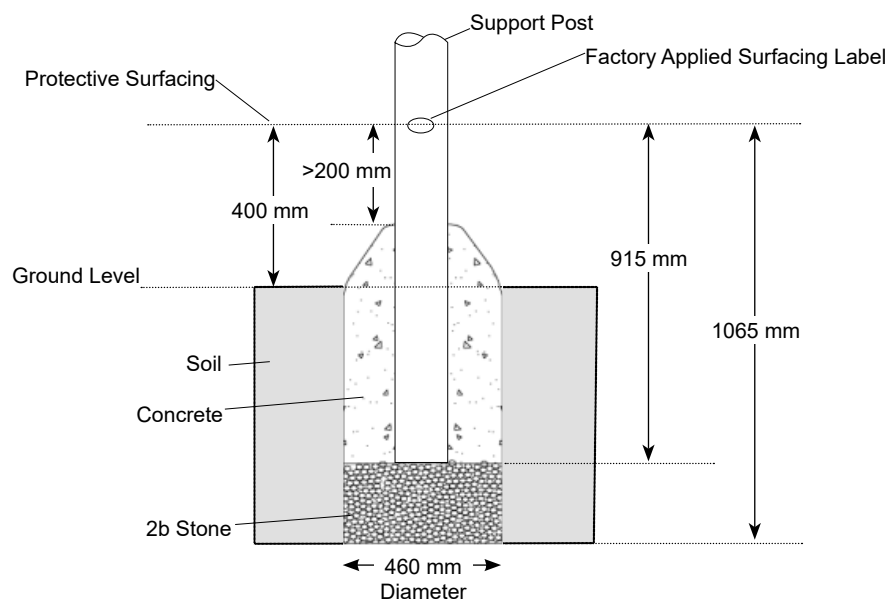
Elevation Views
UN8727S



Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

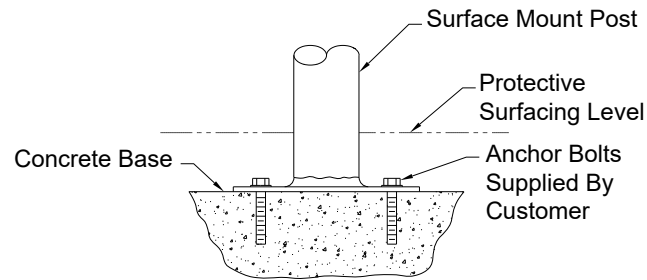
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions



Surface Mount Footing Detail

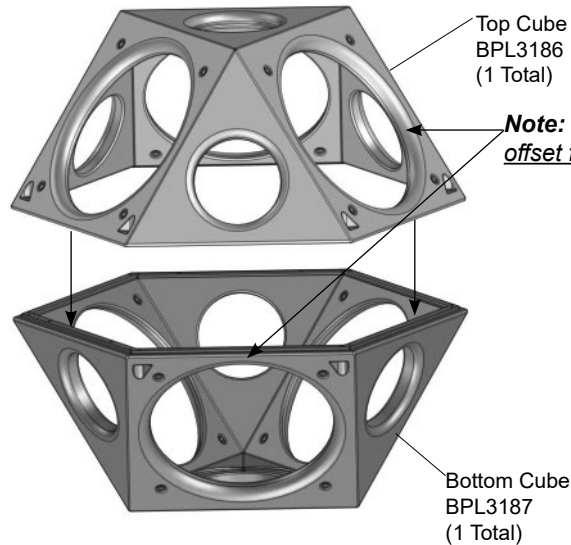
FOOTING NOTES

- All support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in [Handbook for Public Playground Safety](#) published by U. S. Consumer Product Safety Commission.

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

Installation Instructions

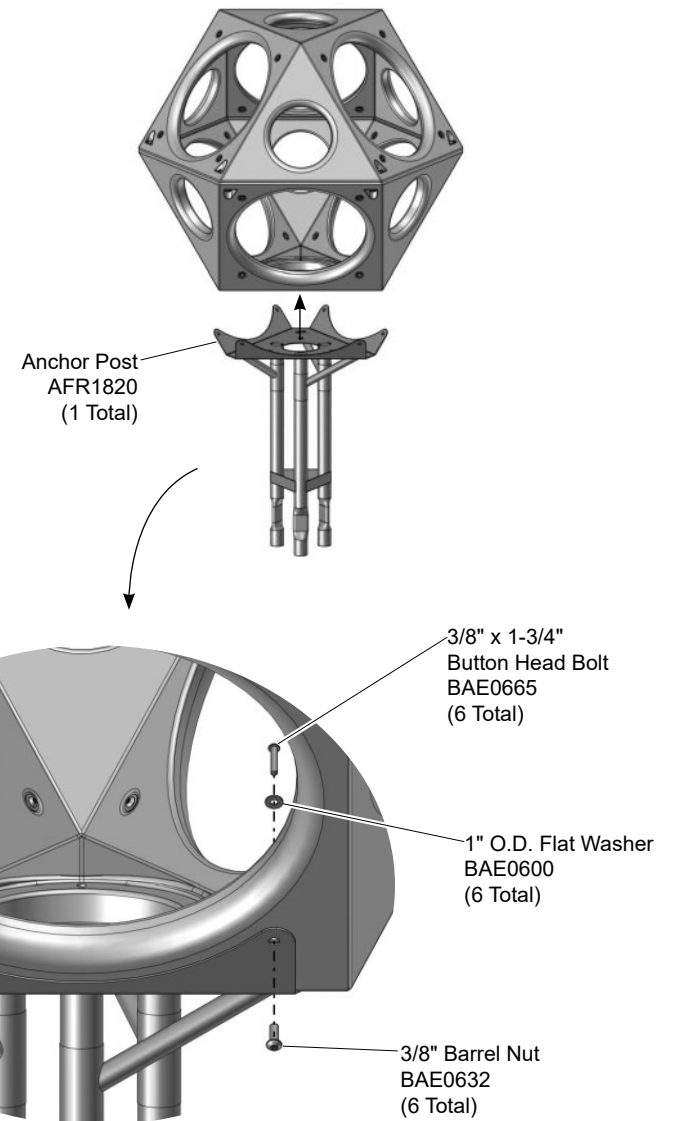
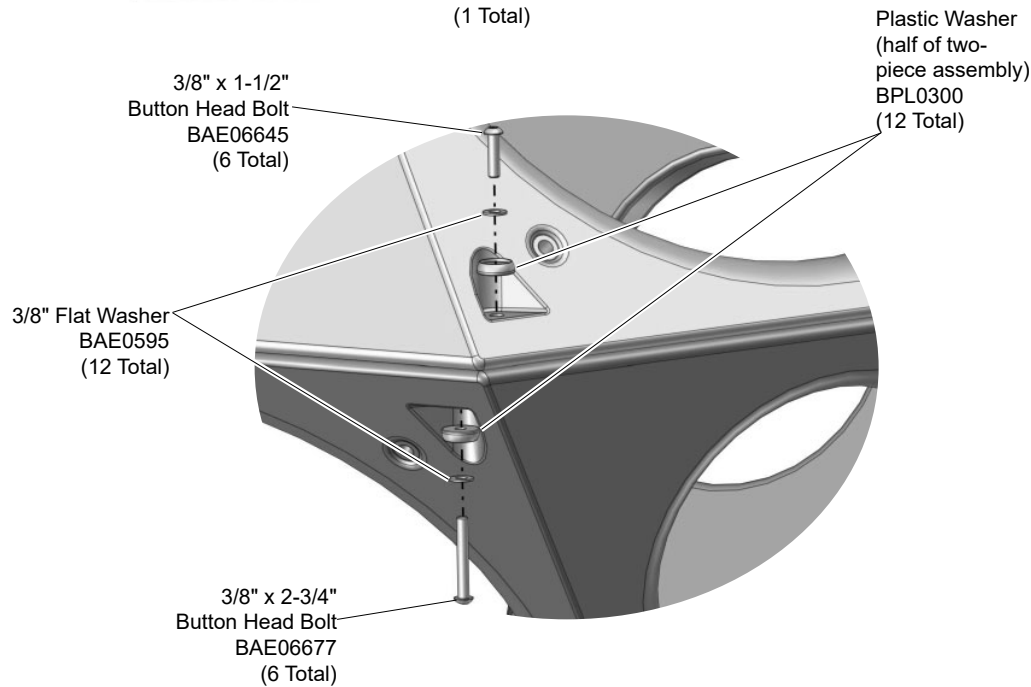
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 10.



Note: Large holes in the cubes are offset from each other.

Detail A Step 4

Attach the top cube to the bottom cube.



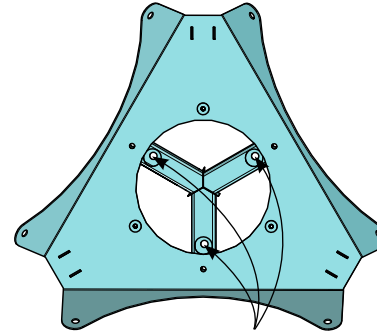
Detail B Step 5

(In-Ground Model)

Attach the anchor post to the bottom cube.

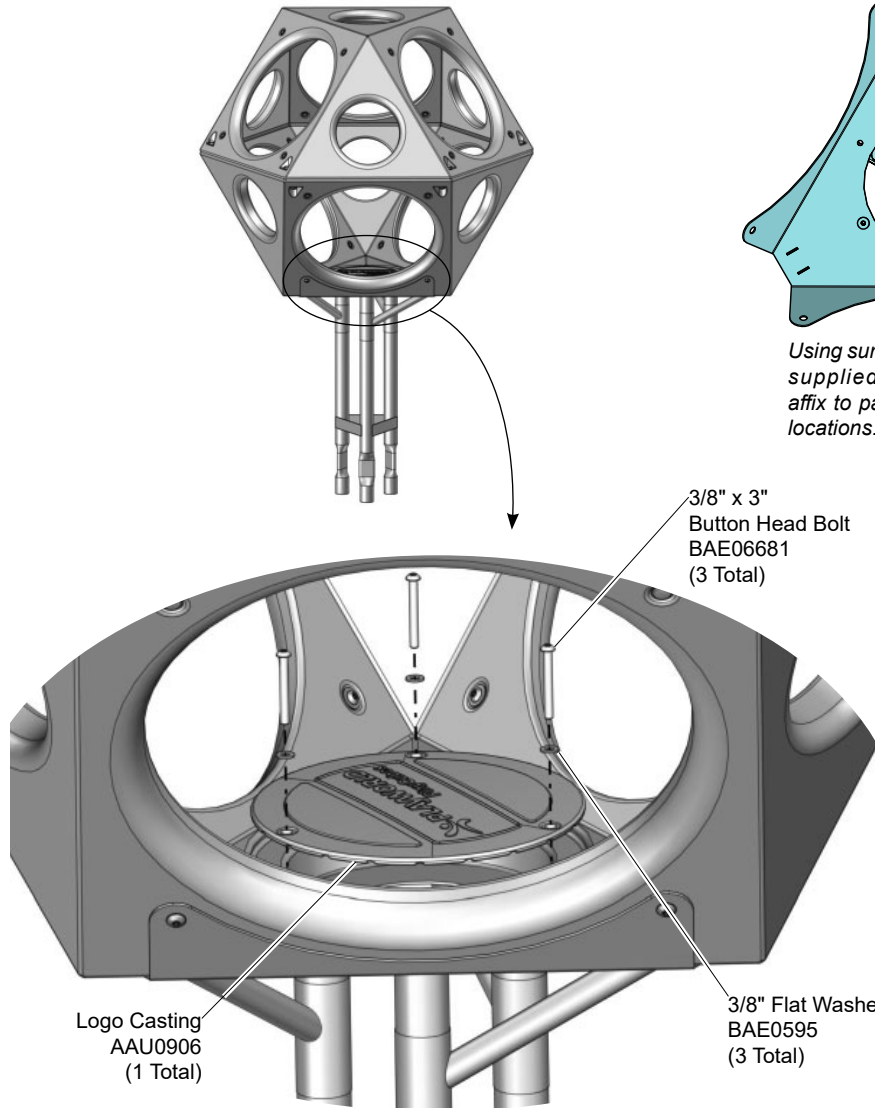
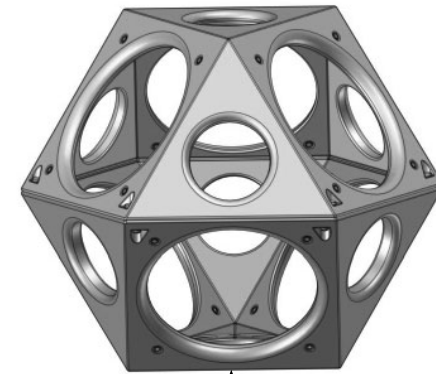
Installation Instructions

Top View of AFR1874



Using surface mount hardware supplied by the customer, affix to pad at the three footer locations.

Anchor Frame
AFR1874
(1 Total)



Logo Casting
AAU0906
(1 Total)

3/8" x 3"
Button Head Bolt
BAE06681
(3 Total)

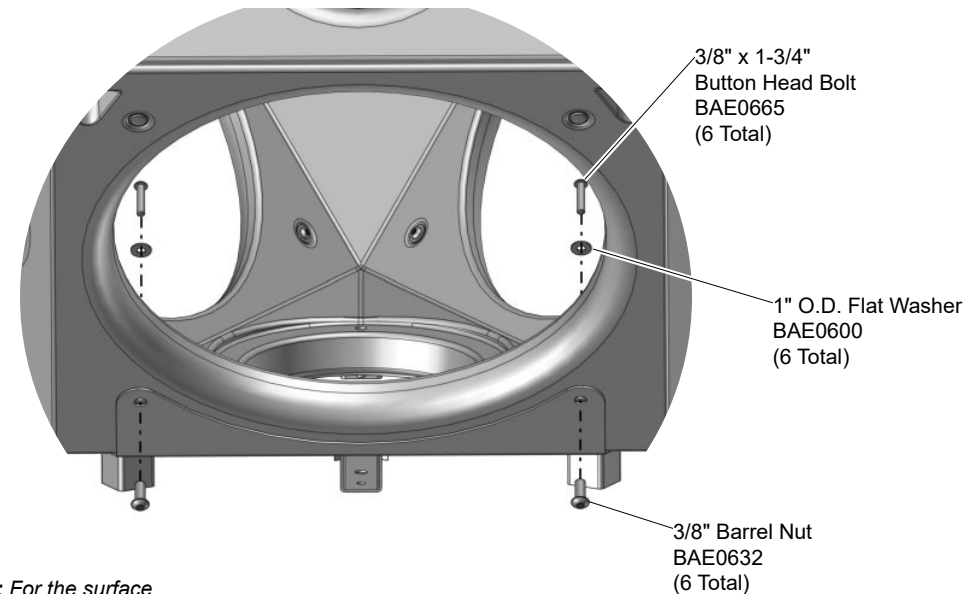
3/8" Flat Washer
BAE0595
(3 Total)

Detail C
Step 6



(In-Ground Model)
Attach the logo casting to the bottom cube.

Note: For the surface mount model do not attach the logo casting until the component has been secured on its footing.



3/8" x 1-3/4"
Button Head Bolt
BAE0665
(6 Total)

1" O.D. Flat Washer
BAE0600
(6 Total)

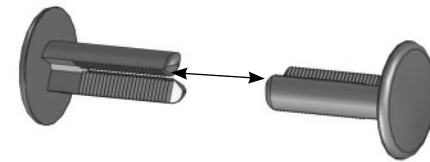
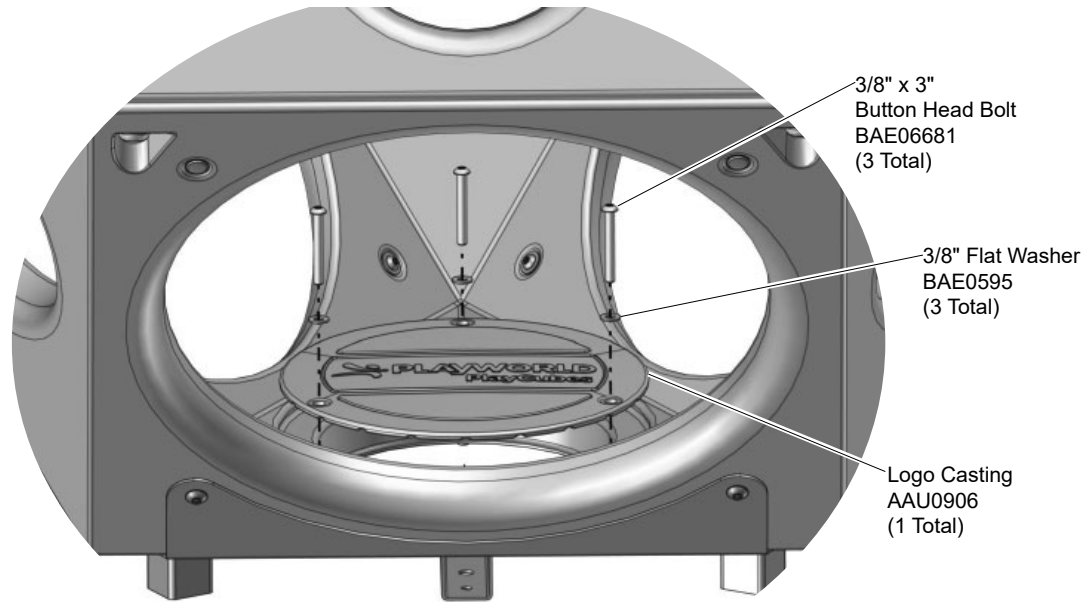
3/8" Barrel Nut
BAE0632
(6 Total)



Detail D
Step 7
(Surface Mount Model)

Attach the anchor frame to the bottom cube.

Installation Instructions

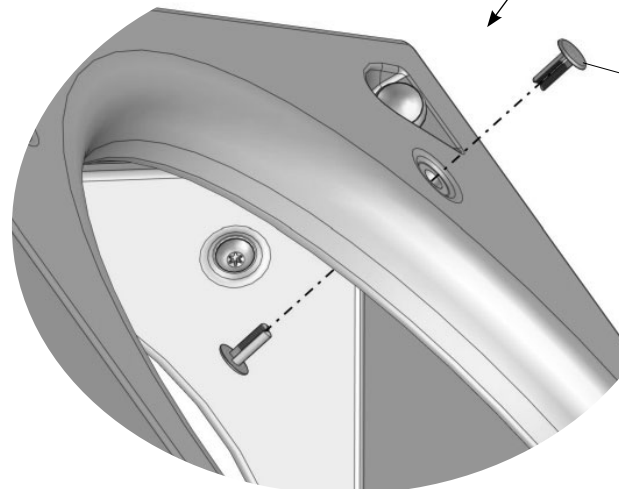
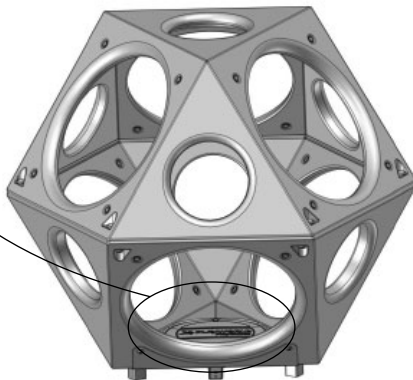


Align rivets as shown so they interlock.

Detail E Step 9



(Surface Mount Model)
Attach the logo casting to the bottom cube.

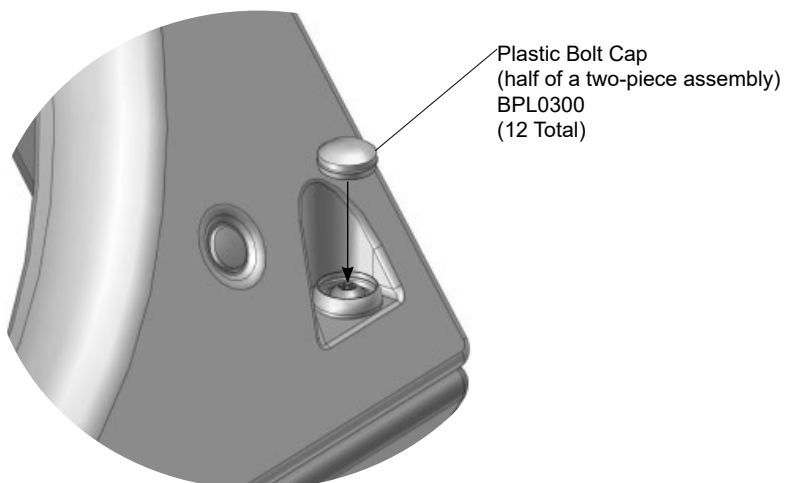


Ratchet Rivet
BPL3194
(28 Total if attaching to another cube)
(36 Total if not attaching to another cube)

Detail F Step 10

Fill in the unused holes **inside** and **outside** the ground level cube.

Installation Instructions



Detail G

Step 11

Insert the bolt caps into the plastic washers.

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Support Post Footing Details** or **Surface Mount Footing Detail** on pages 4 and 5 of this installation document.

Step 4: Attach the top cube to the bottom cube. See **Detail A**. Place the top cube onto the bottom cube making sure the large holes are offset and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

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

Note: Steps 5 and 6 refer only to the in-ground model.

Step 5: Attach the anchor post to the bottom cube. See **Detail B**. Position the top of the anchor post against the bottom of the cube assembly and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 6: Attach the logo casting to the bottom cube. See **Detail C**. Place the casting on the inside bottom of the cube assembly and attach as shown.

Note: Step 7 refers only to the surface mount model.

Step 7: Attach the anchor frame to the bottom cube. See **Detail D**. Position the top of the anchor frame against the bottom of the cube assembly and attach as shown.

Final Details.

Step 8: Finish assembling the structure. Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

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

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

Hardware Note: Extra hardware is provided for attachment of an above ground PlayCube.

Step 9: Attach the logo casting to the bottom cube. See **Detail E**. Place the casting on the inside bottom of the cube assembly and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 10: Fill in the unused **inside** and **outside** holes in the ground level cube. See **Detail F**. After the equipment assembly is complete, install a ratchet rivet in each unused open hole in the cube. Insert the rivet into the hole and press in place. Make sure to insert the rivets so they interlock as shown in the reference.
Note: This step should be executed after structure has been assembled and properly footed.

Step 11: Insert the bolt caps into the plastic washers. See **Detail G**. Select the plastic caps and press over the plastic flanged washers.

Note: The plastic caps install easier when they are warm.

Step 12: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

UN8727 - GROUND LEVEL PLAYCUBE

PART NO.	DESCRIPTION	QTY.
AAU0906	CASTING - PLAYCUBES LOGO	1
AFR1820	POST - 32.48" x 28.44" x 42.28	1
BAE0595	WASHER - 3/8" SAE FLAT	15
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	6
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	6
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - SS	6
BAE06677	BOLT - 3/8"-16 x 2.75" BUTTON HEAD - SS	6
BAE06681	BOLT - 3/8"-16 x 3.00" BUTTON HEAD - SS	3
BPL0300	CAP - 3/8" BOLT	12
BPL3186	PLAYCUBES - TOP CUBE	1
BPL3187	PLAYCUBES - BOTTOM CUBE	1
BPL3194	RIVET - RATCHET - .88" O.D. x 1.67"	36
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

UN8727S - GROUND LEVEL PLAYCUBE SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0906	CASTING - PLAYCUBES LOGO	1
AFR1874	FRAME - 32.48" x 28.67" x 6.35"	1
BAE0595	WASHER - 3/8" SAE FLAT	15
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	6
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	6
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - SS	6
BAE06677	BOLT - 3/8"-16 x 2.75" BUTTON HEAD - SS	6
BAE06681	BOLT - 3/8"-16 x 3.00" BUTTON HEAD - SS	3
BPL0300	CAP - 3/8" BOLT	12
BPL3186	PLAYCUBES - TOP CUBE	1
BPL3187	PLAYCUBES - BOTTOM CUBE	1
BPL3194	RIVET - RATCHET - .88" O.D. x 1.67"	36
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

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

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Replacement Parts

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

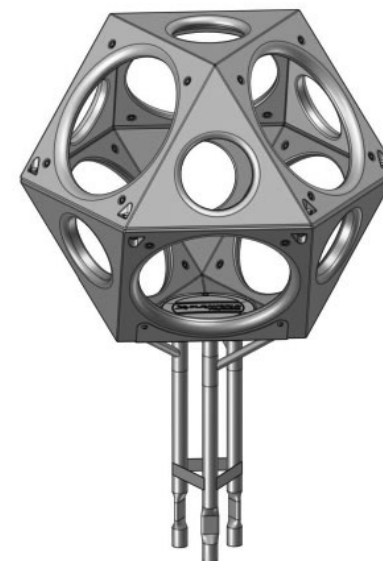
Equipment Maintenance

Universal

Models UN8727 and UN8727S

Ground Level PlayCube

In-Ground and Surface Mount



Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

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

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

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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







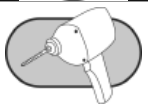
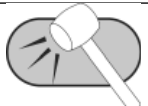
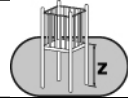
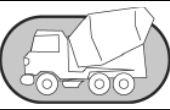

Assembly View

Installation Instructions

Playworld Systems® Model ZZXX0204
Basket Swing

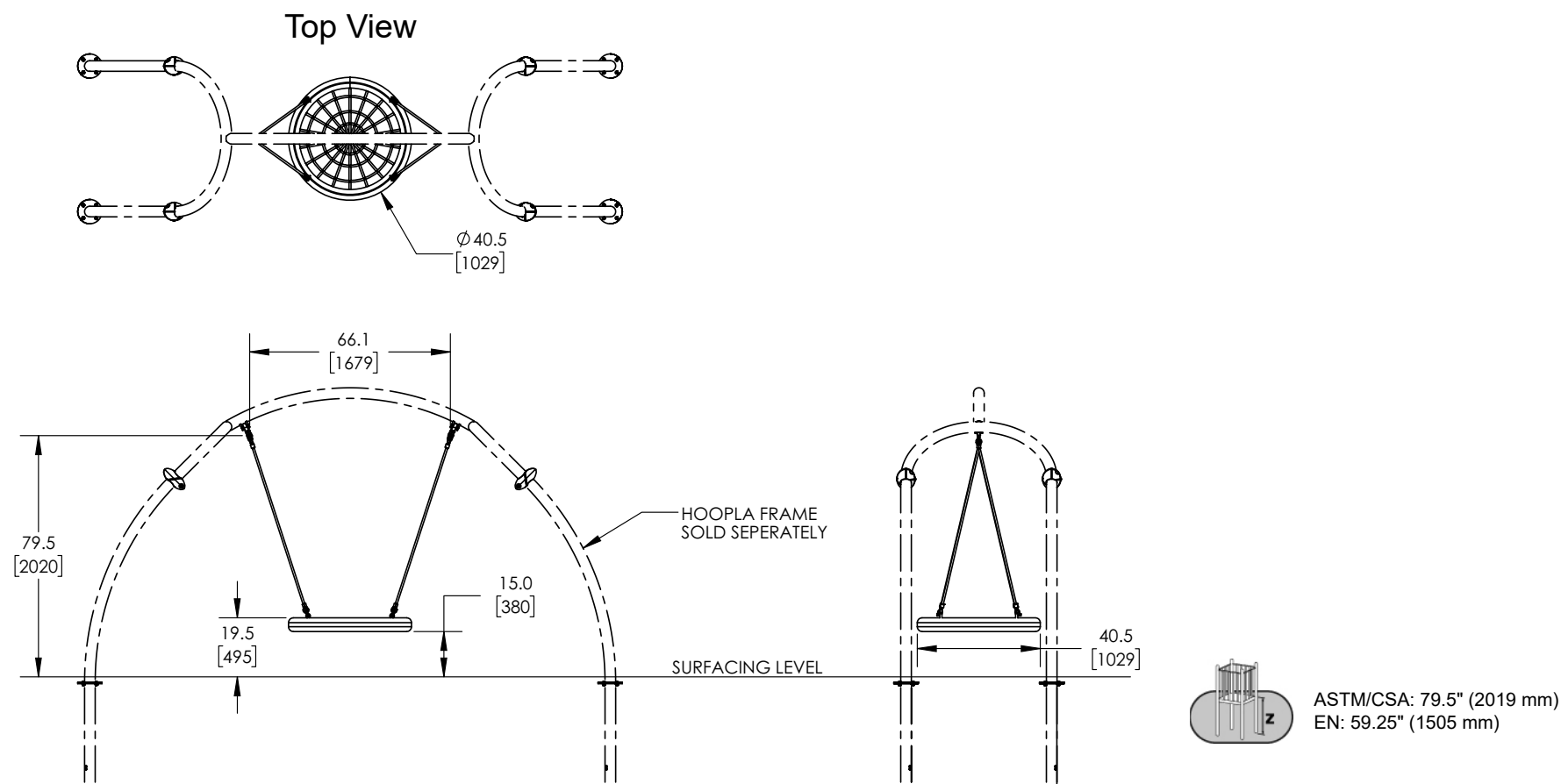
Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 5 man-hours
Use Zone: Refer to the information on page 1
User Group Age (years): ASTM: 2-12, CSA: 1.5-12, EN: 2-14

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

Installation Instructions

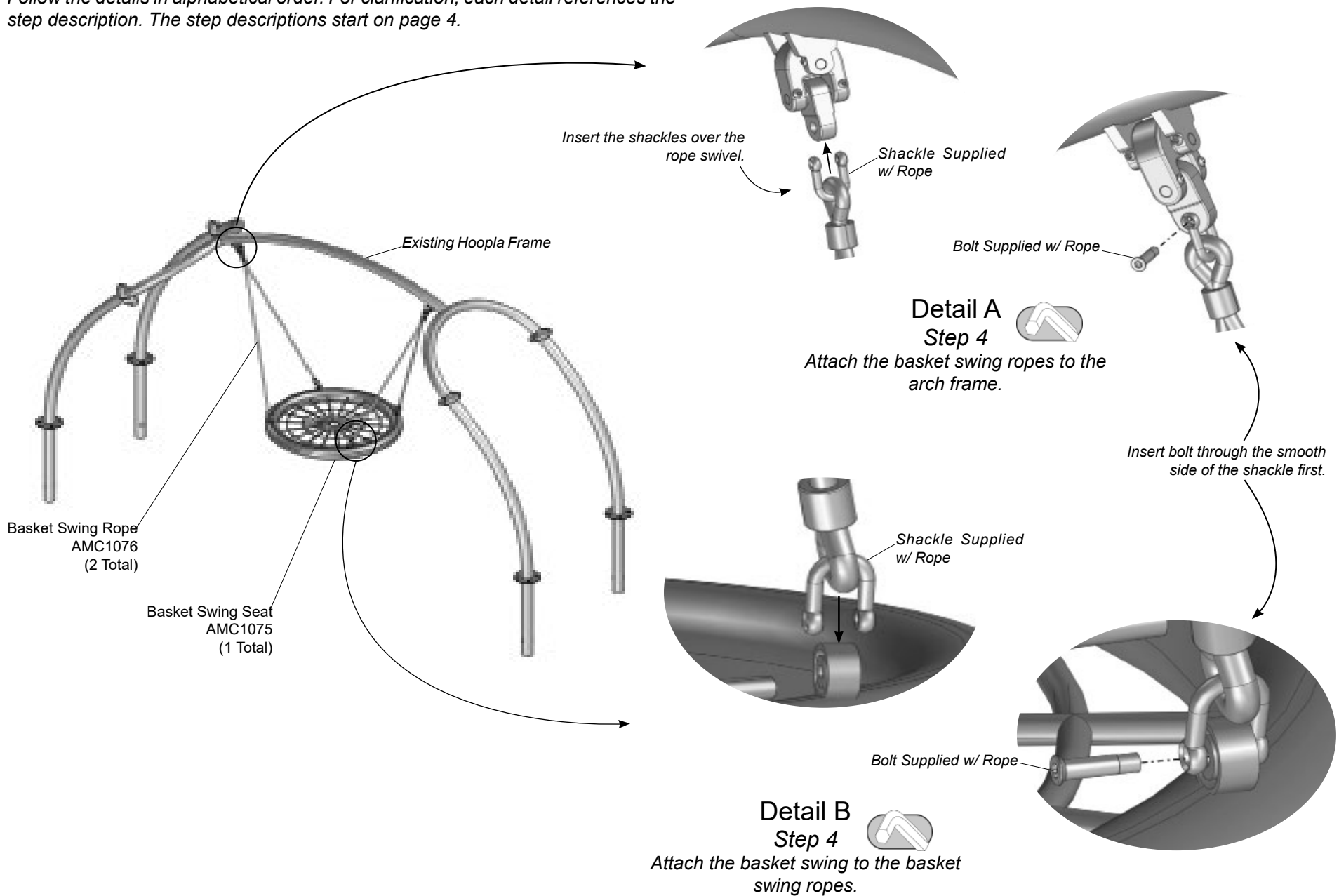
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
XX0204

Installation Instructions

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



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Secure the basket swing ropes to the arch frame. See **Detail A**. Insert the shackles over the rope swivel. Attach as shown. Insert bolt through the smooth side of the shackle first. Fully tighten the connection.

Torque Specifications:

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

Final Details.

Step 4: Attach the basket swing to the basket swing ropes. See **Detail B**. Insert the shackles onto the seat tabs. Attach as shown. Insert bolt through the smooth side of the shackle first. Fully tighten the connection.

Step 5: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Bill of Materials

XX0204 - BASKET SWING

PART NO.	DESCRIPTION	QTY.
AMC1075	HOOPLA ROPE BASKET - 40.50" O.D. x 5.13"	1
AMC1076	ROPE - BASKET SWING	2
BAE0922	TOOL - TT 45 L WRENCH	1
ASY0589	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

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Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- 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.

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.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Equipment Maintenance

Playworld Systems®

Models XX0204

Basket Swing



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Inspection Form

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- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes

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

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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



Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.


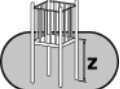

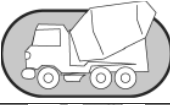


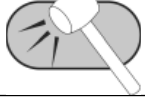
Installation Instructions

Playworld Systems®
Models XX0260, XX0261 & XX0324
Belt Seat with Swing Chain

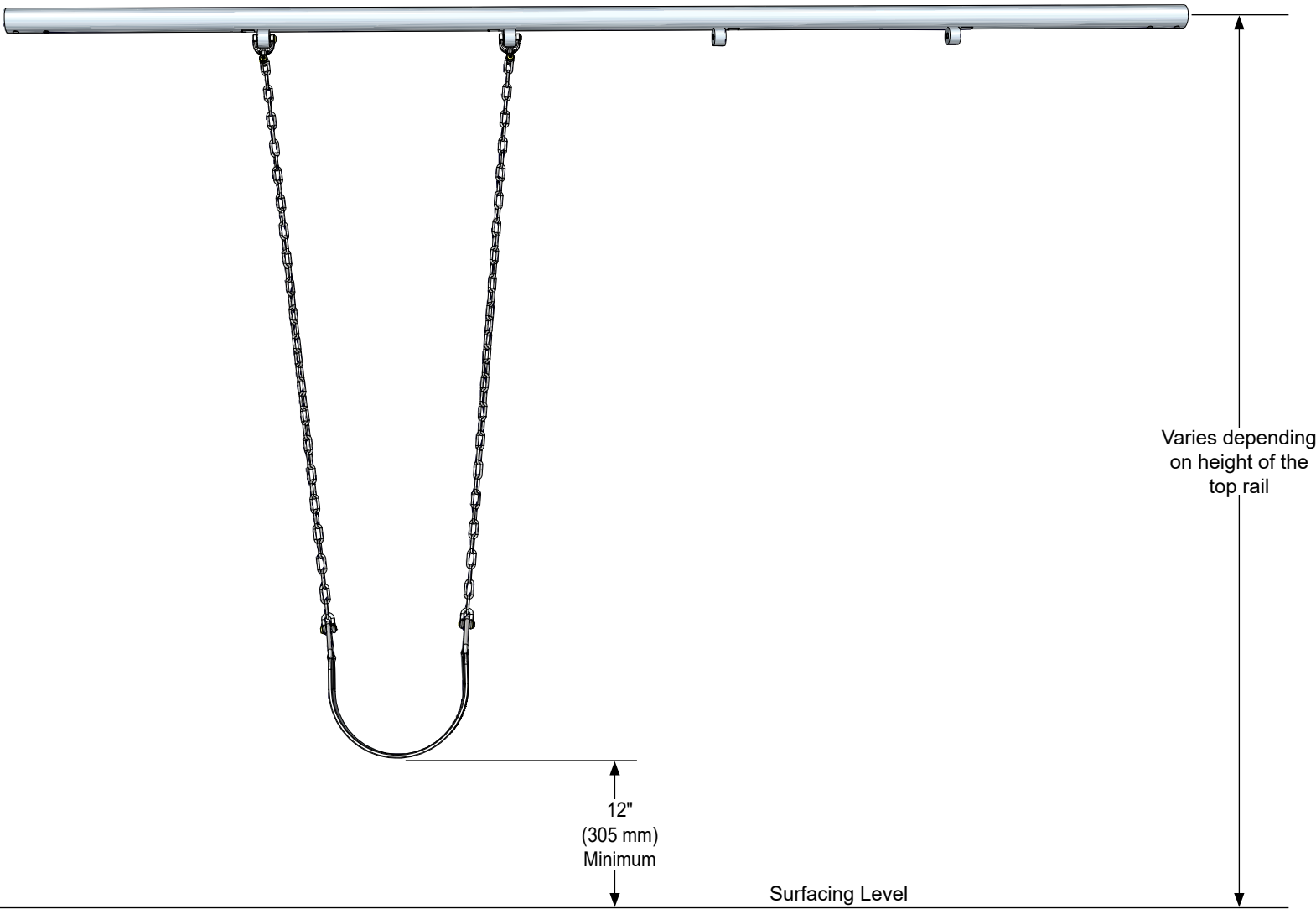
Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to the swing frame instructions
User Group Age (years): ASTM: 2-12, CSA: 1.5-12, EN: 2-14

ICON KEY

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

Installation Instructions

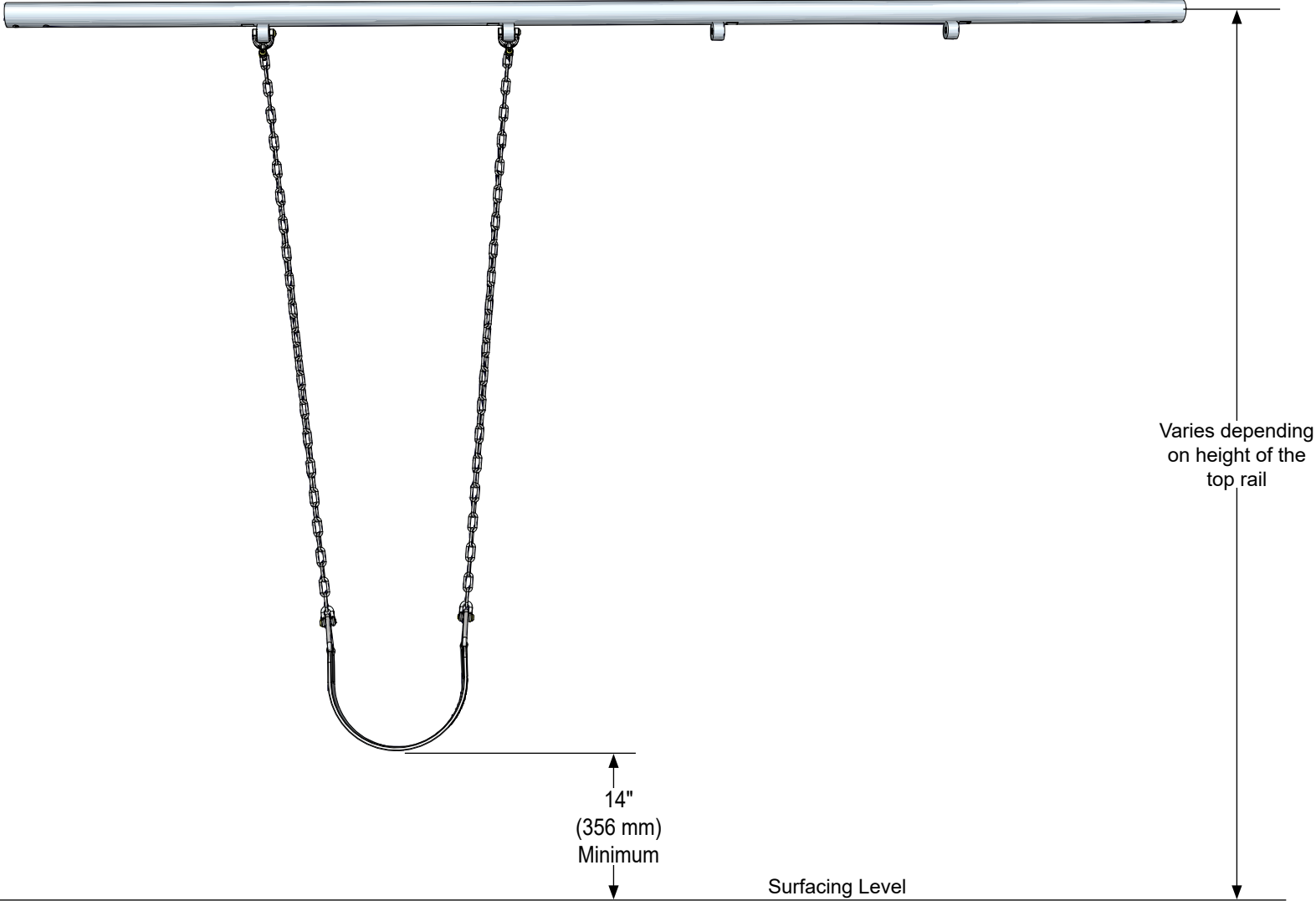


Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)



Installation Instructions



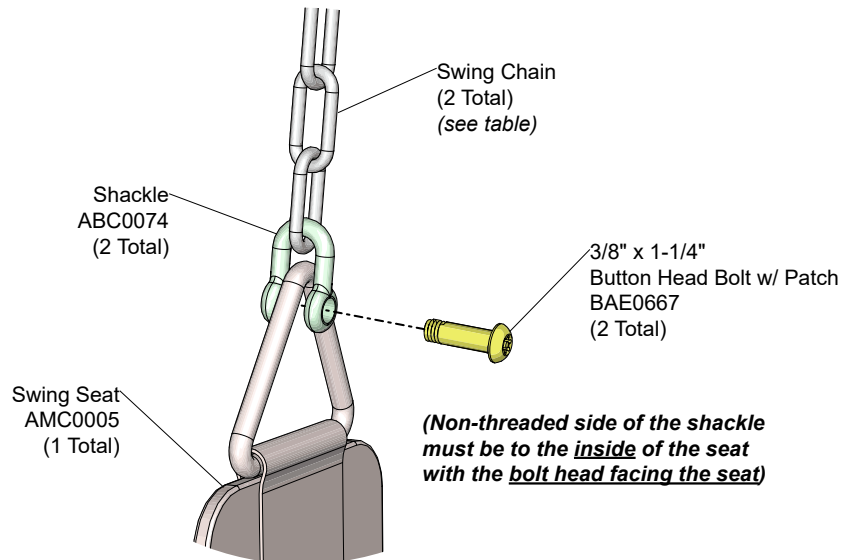
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

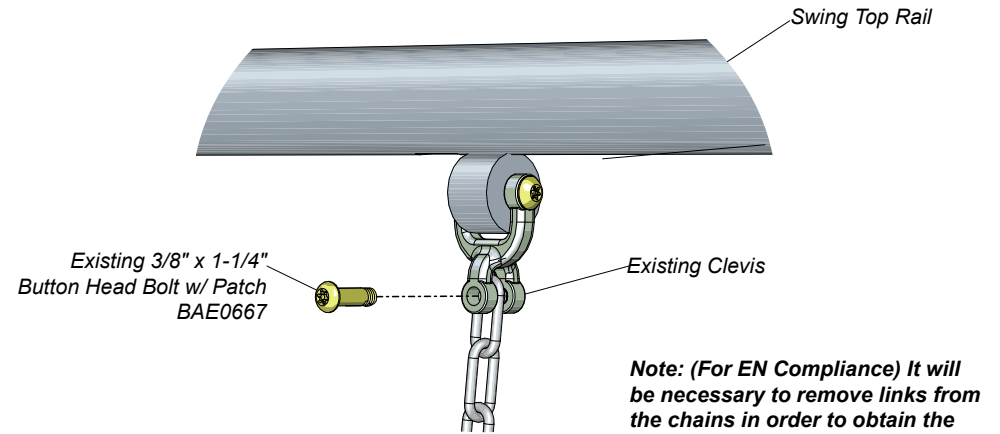
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 3

Attach the swing seat to the swing chains.

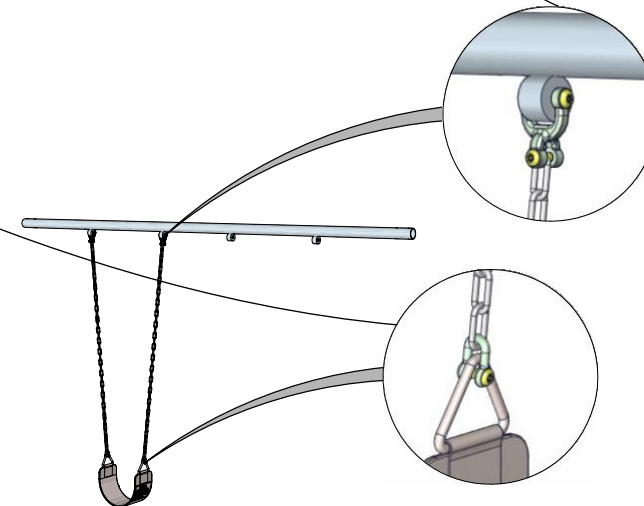
Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)



Detail B Step 4

Attach the swing seat assembly to the existing swing hangers.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat. Fully tighten the connections according to tightening torque specifications.

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

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side. Fully tighten the connections according to tightening torque specifications.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Step 5: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1
ASY0556	LABEL KIT - 2-12 YEARS BELT SWING - ASTM	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1
ASY0556	LABEL KIT - 2-12 YEARS BELT SWING - ASTM	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1
ASY0556	LABEL KIT - 2-12 YEARS BELT SWING - ASTM	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

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

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.

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Equipment Maintenance

Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



Inspection Form

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

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

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

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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





Assembly View

Installation Instructions

Playworld Systems® Model XX0635
Swing Along Seat to 8 ft. (2438 mm) Top Rail

Installation Preparation

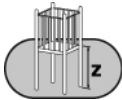
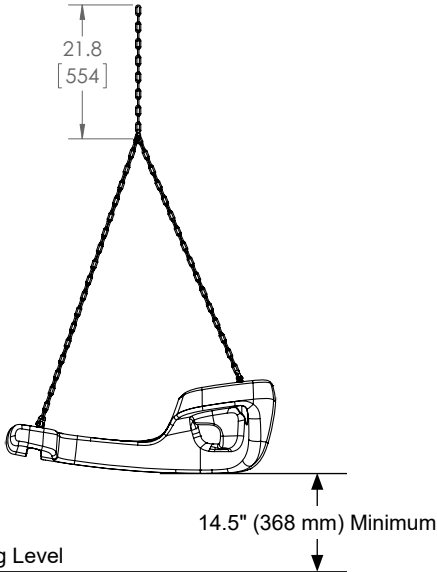
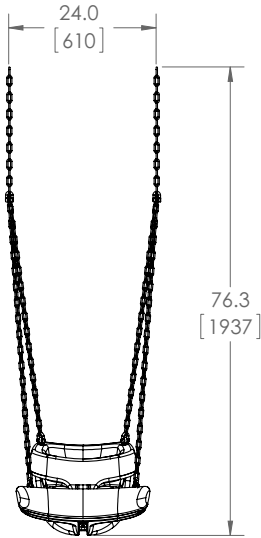
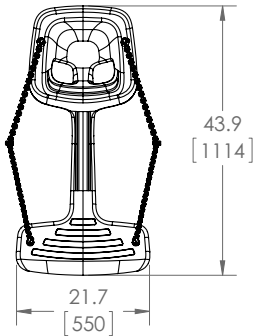
Recommended Crew: One (1) adult
Installation Time: 0.5 hour
User Group Age (years): ASTM/CSA: 2-5

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

Installation Instructions

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

Top View



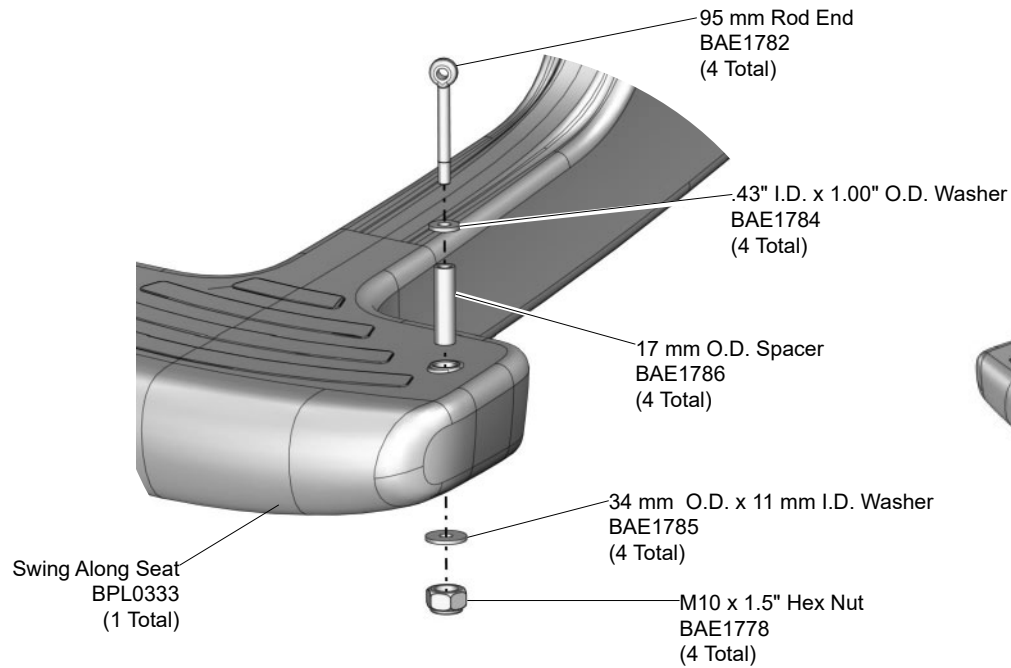
ASTM: 96" (2438 mm)
CSA: 2438 mm
Attached to an 8' Top Rail

Elevation Views

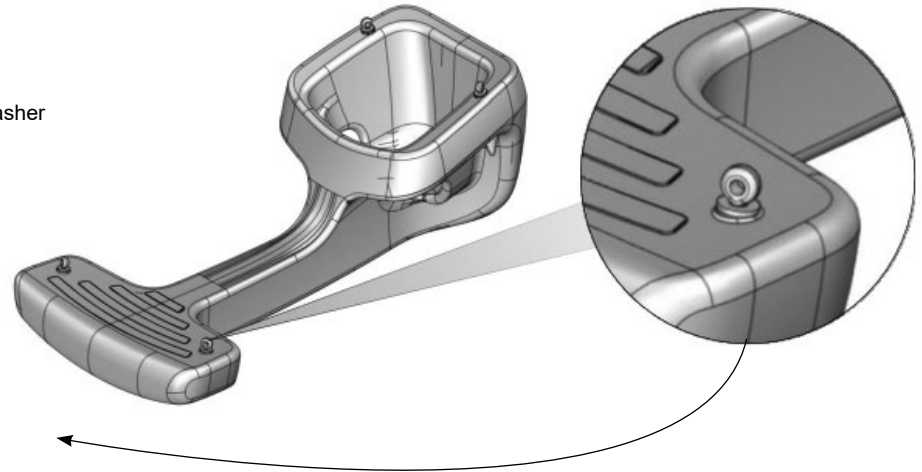


Installation Instructions

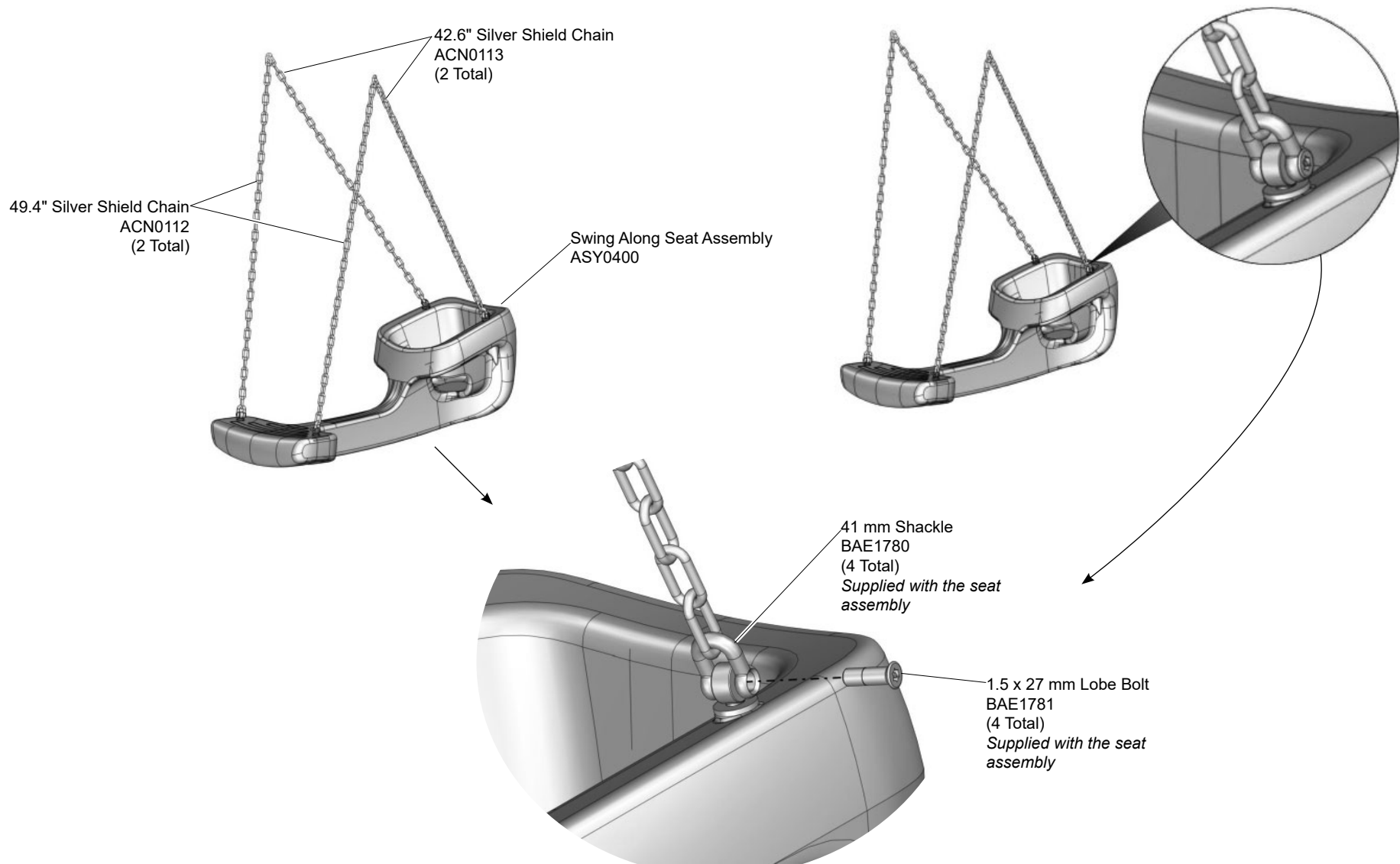
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Detail A
Step 3
Assemble the seat.



Installation Instructions



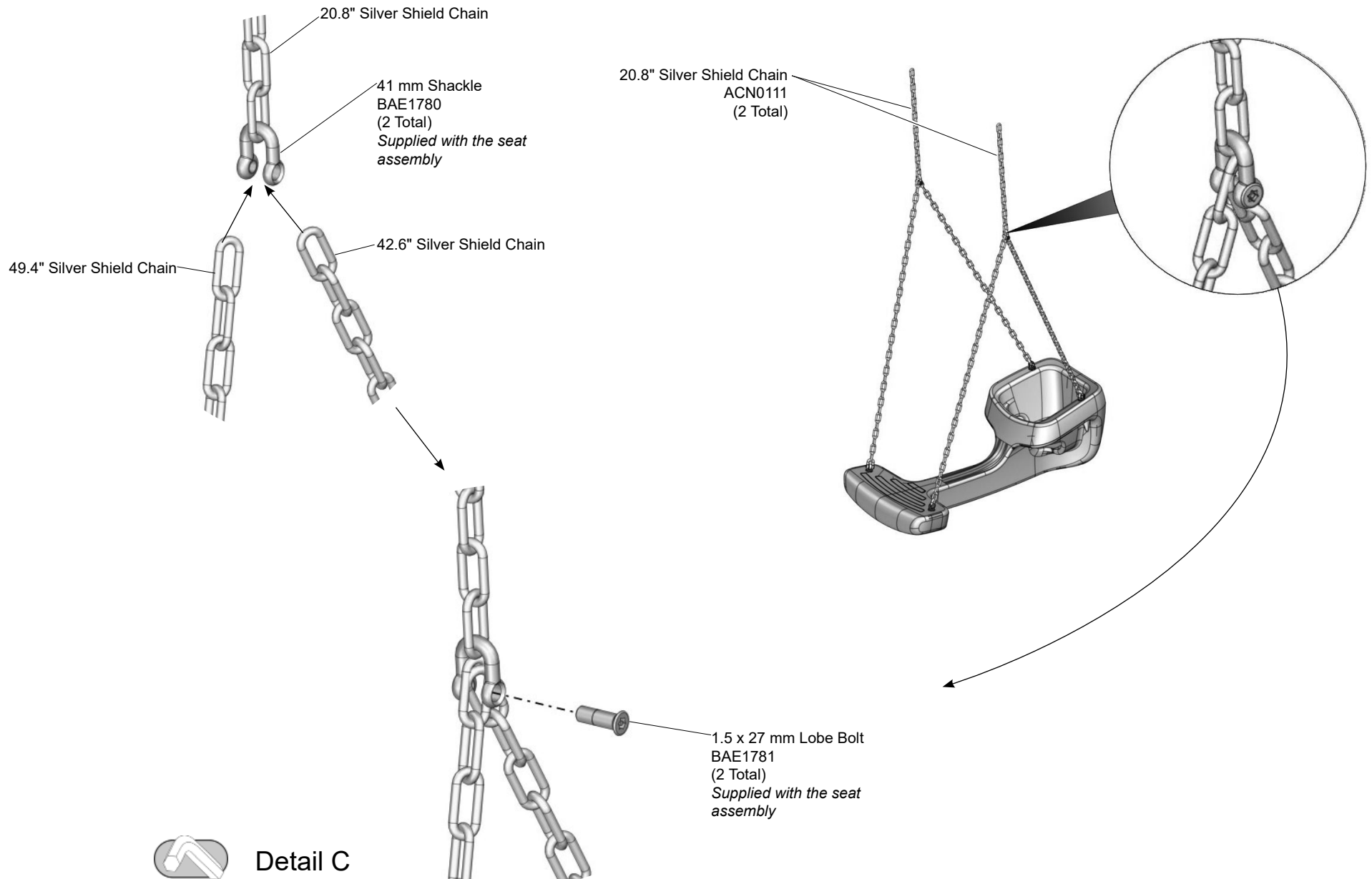
Detail B

Step 4

Attach the 42.6" and 49.4" chains to the seat.



Installation Instructions



Installation Instructions

Bill of Materials

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Assemble the seat. See **Detail A**. Attach the 95 mm rod ends to the seat as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

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

Step 4: Attach the 42.6" and 49.4" chains to the seat. See **Detail B**. Insert a shackle through the last link on one end of each chain and attach as shown. Placement of the chains attached to the seat must be as shown in the detail. Fully tighten the connections according to tightening torque specifications.

Step 5: Attach the 20.8" chains to the seat chains. See **Detail C**. Insert a shackle through the last link on each 20.8" chain and attach the last link of the front and back chains on each side of the seat to a 20.8" chain. Fully tighten the connections according to tightening torque specifications.

Final Details.

Step 5: Attach the swing seat to the swing frame. See the installation instructions for the swing frame on how to connect the seat to the swing frame top rail.

Important Note: The vertical distance between the child occupied seat and the protective surface should be at least 14.5" (368 mm). Remove any excess chain.

Step 6: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

XX0635 - SWING ALONG SEAT TO 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ACN0111	CHAIN - 20.8" 4/0 SILVER SHIELD	2
ACN0112	CHAIN - 49.4" 4/0 SLIVER SHEILD	2
ACN0113	CHAIN - 42.6" 4/0 SLIVER SHEILD	2
ASY0400	SWING - SWING ALONG	1
BAE1780	SHACKLE "D" STYLE 41mm SS	6
BAE1781	BOLT - M10 x 1.5 x 27mm SS 6-LOBE	6
BAE1782	SWING ALONG - ROD END - 95mm	4
BAE1778	NUT - M10 x 1.5 HEX w/ LOCKING RING	4
BAE1784	WASHER - .43" I.D. x 1.00" O.D. x .13"	4
BAE1785	WASHER - FLAT M10 - 34mm O.D. x 11mm I.D. x 3mm	4
BAE1786	SPACER - 17mm O.D. x 64mm	4
BPL0333	SWING - SWING ALONG	1
BAE0922	TOOL - TT 45 L WRENCH	1
ASY0593	LABEL KIT - 2 - 12 YRS SWING ALONG - ASTM	1



Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- 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

- 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.

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.

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Equipment Maintenance

Playworld Systems®

Model XX0635

Swing Along Seat to 8 ft. (2438 mm)
Top Rail



Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect metal parts for structural and finish damage.	Medium			
	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: ___ / ___ / ___

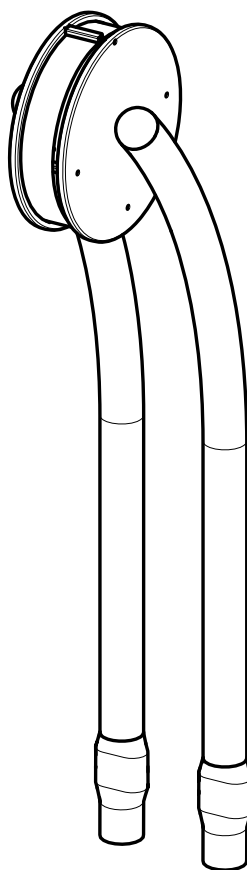


Installation Instructions

Models ZZXX0661, ZZXX0661S

Concerto™ Medium Cabasa

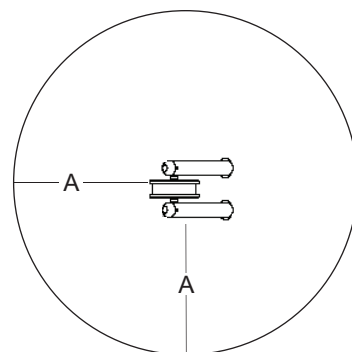
In-ground and Surface Mount Models



Assembly View (*representative model*)

Installation Preparation

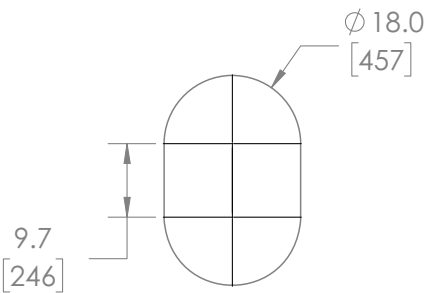
Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours (In-ground)
Installation Time: 0.5 man-hours (Surface Mount)
Concrete Required: 0.26 cubic yard (0,20 cubic meters)
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14



Equipment Use Zone
A - (ASTM): 72 in. (1830 mm)
(CSA): 1800 mm
(EN): 1500 mm

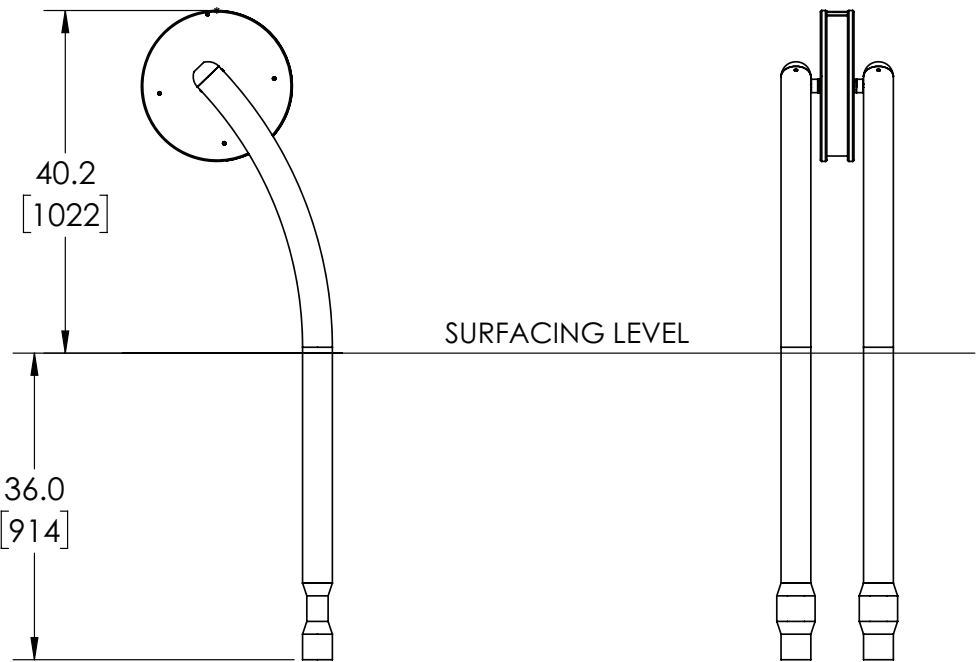
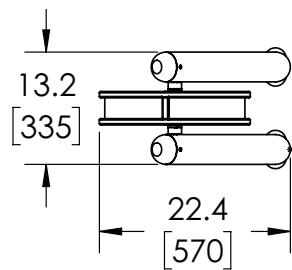
Installation Instructions

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



Footing Diagram

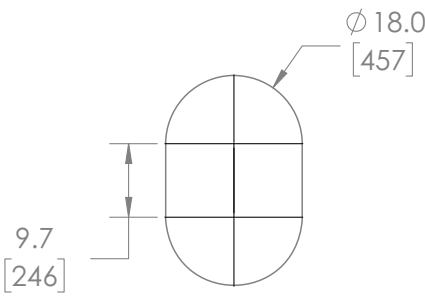
Top View



Elevation Views
ZZXX0661

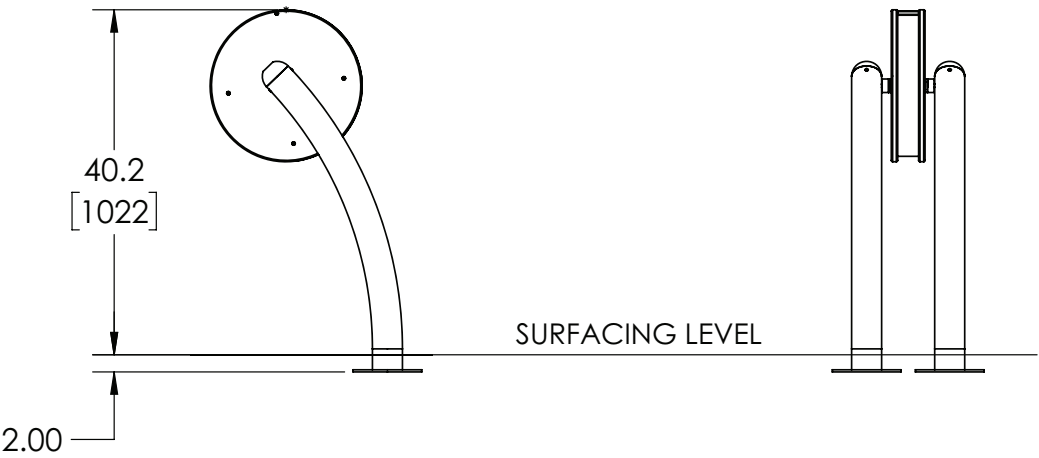
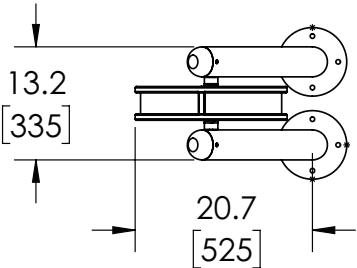
Installation Instructions

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



Footing Diagram

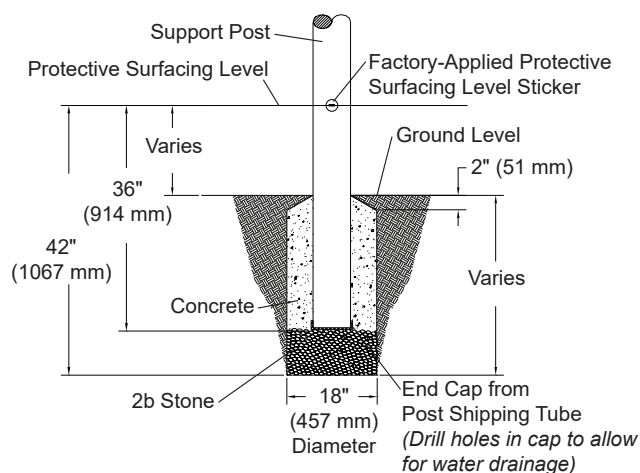
Top View



Elevation Views
ZZXX0661S

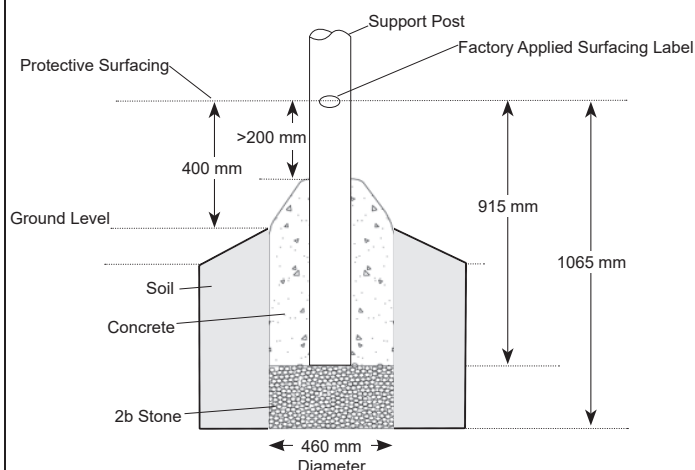
Installation Instructions

IN GROUND FOOTING DIAGRAMS: ASTM / CSA



Support Post Footing Detail (ASTM/CSA)

IN GROUND FOOTING DIAGRAMS: EN (EUROPE ONLY)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase bottom of support post in concrete. Place post directly on packed stone.

- The footings shown on this documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.

For example:

- If local soil is loose or unstable, a larger footing may be required.

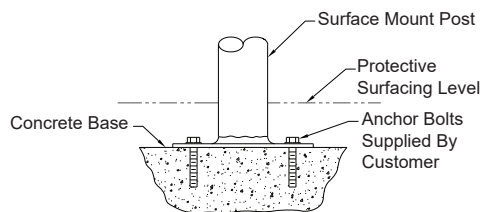
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

SURFACE MOUNT FOOTING DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

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

FOOTING NOTES: PIER TYPE SURFACE MOUNT



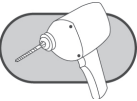

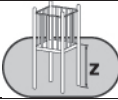
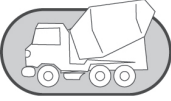

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing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

FOOTING NOTES: EXISTING CONCRETE SLAB TYPE SURFACE MOUNT

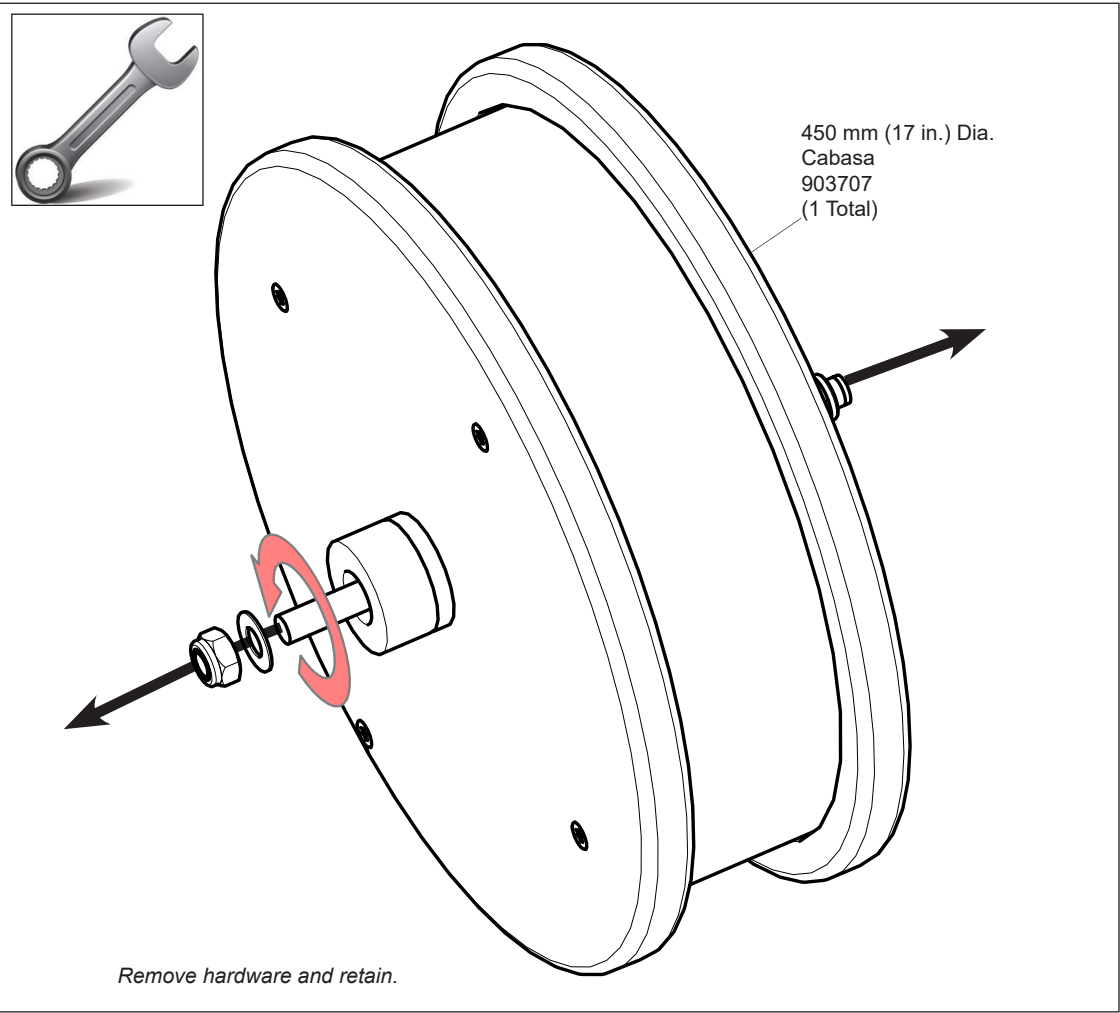
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- Support posts and all attaching decks and play components must be plumb and level.

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

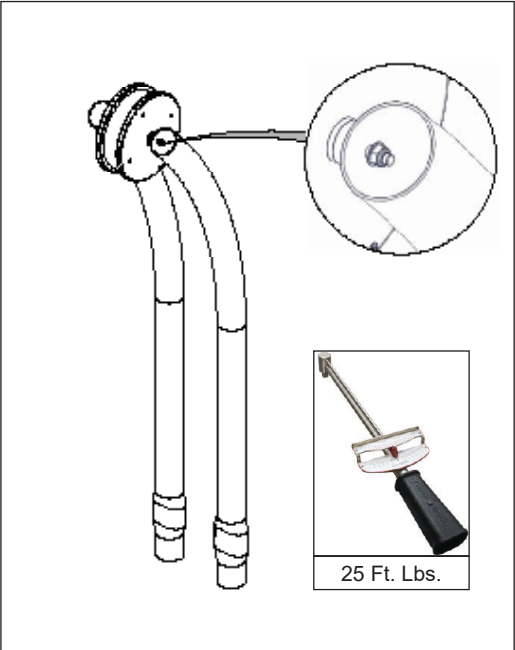
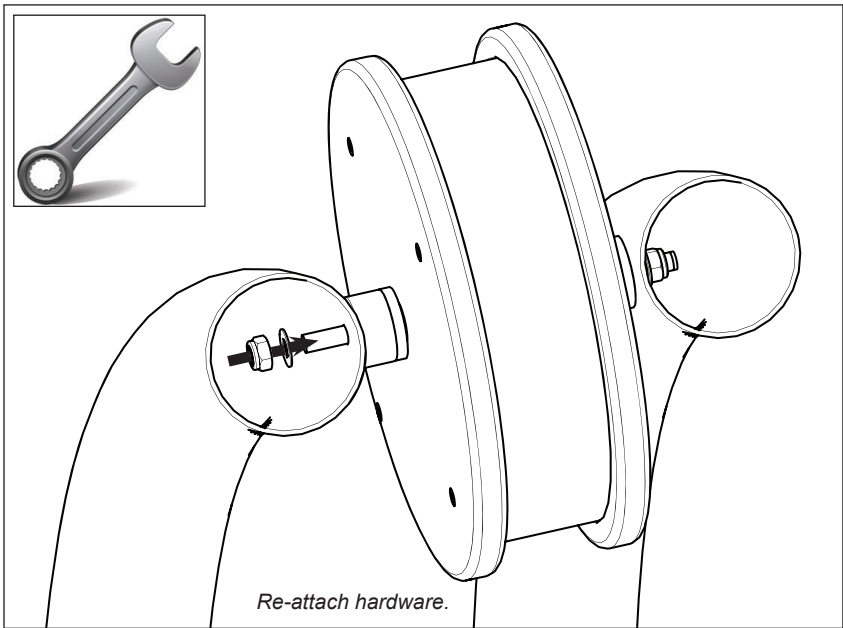
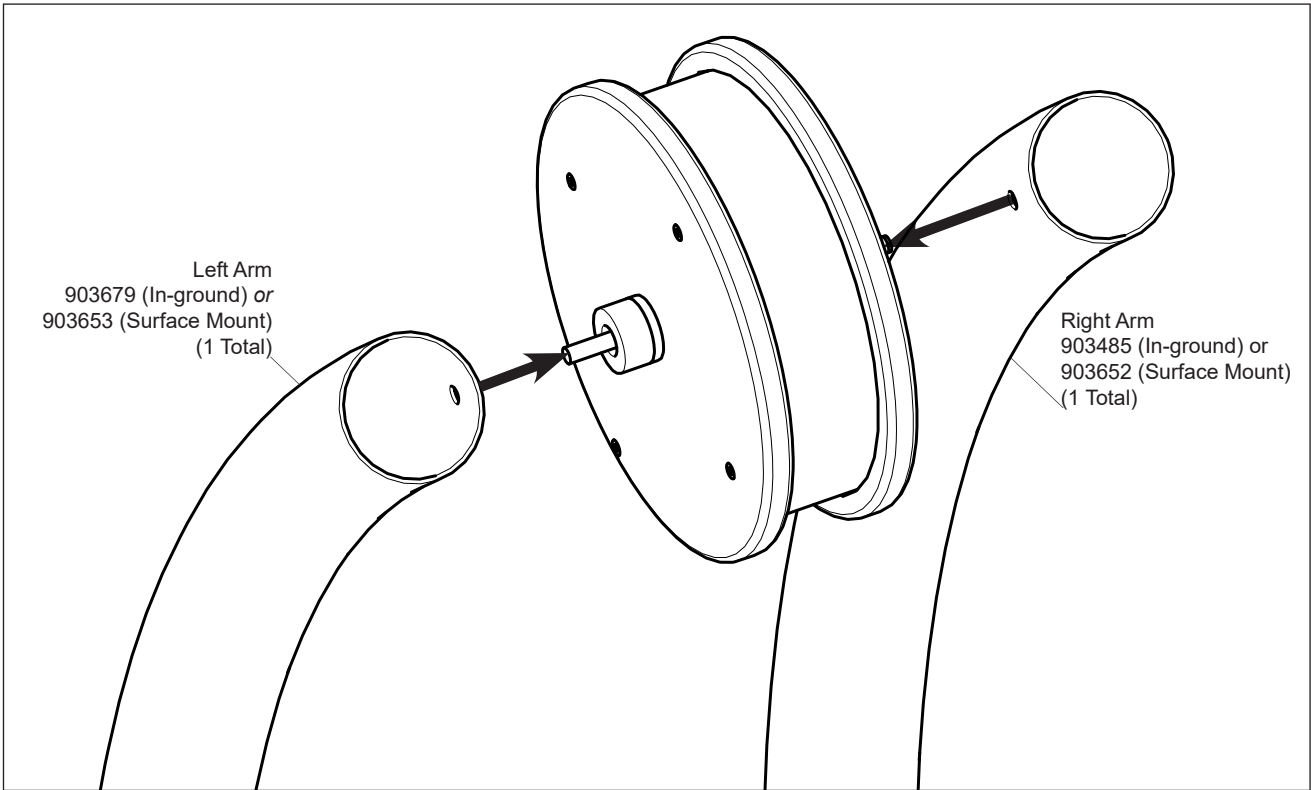
Installation Instructions

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

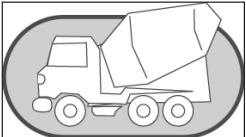
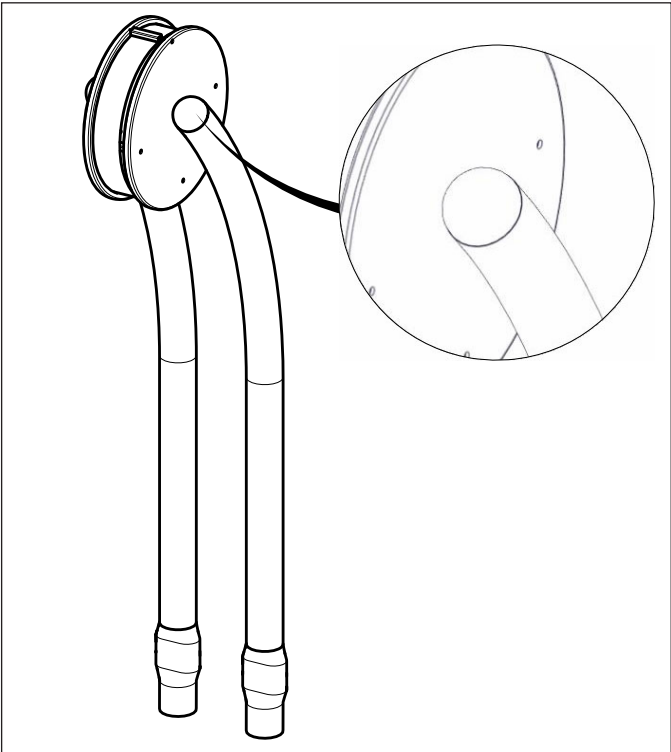
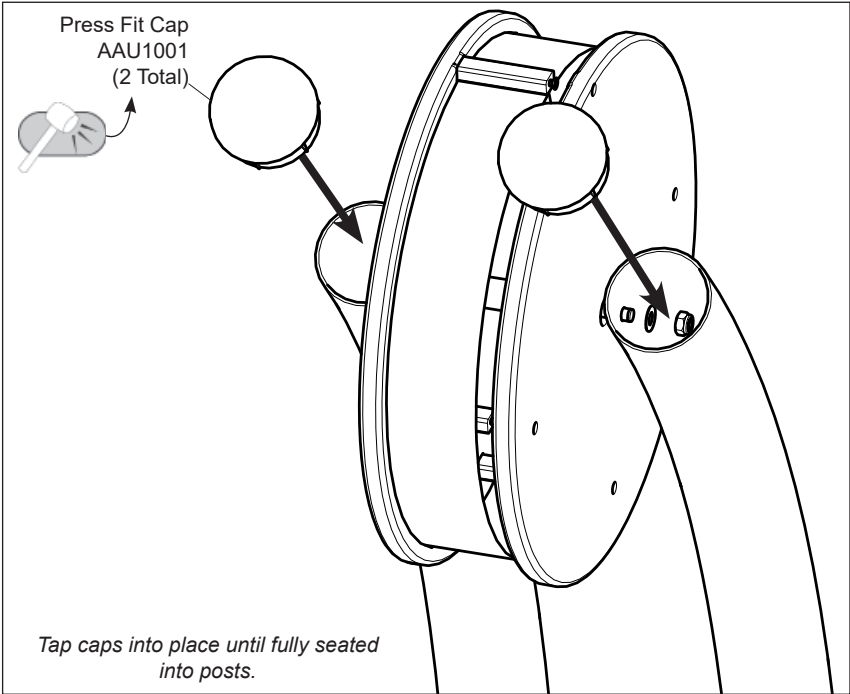
- Installation Instructions:**
1. Prepare footings as shown on pages 4 and 5 of this document.
 2. Assemble equipment as shown.
 3. Place equipment in, or on, its footings and block and brace.
 4. Plumb and level equipment and tighten all hardware.



Installation Instructions



Installation Instructions



ZZXX0661 - CONCERTO MEDIUM CABASA IN-GROUND

PART NO.	DESCRIPTION	QTY.
903485	FAB METAL - 3.50" DIA x 69.68" x 15.85" - RIGHT	1
903679	FAB METAL - 3.50" DIA x 69.68" x 15.85" - LEFT	1
903707	CONCERTO - SPIN CABASAS 450mm DIA	1
AAU1001	CAP - 3-1/2" PRESS FIT	2
ASY0589	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

** Label kit part numbers may differ depending on model*

ZZXX0661S - CONCERTO MEDIUM CABASA SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
903652	POST - 35.68" x 18.10" x 8.00" - RIGHT	1
903653	POST - 35.68" x 18.10" x 8.00" - LEFT	1
903707	CONCERTO - SPIN CABASAS 450mm DIA	1
AAU1001	CAP - 3-1/2" PRESS FIT	2
ASY0589	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

** Label kit part numbers may differ depending on model*

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intentionally left blank.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect drive rivets to insure they are intact and secure.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

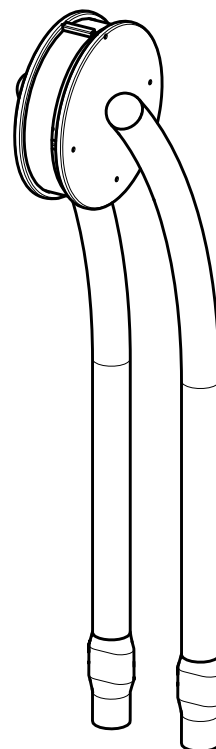
- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Equipment Maintenance

Models ZZXX0661, ZZXX0661S

Concerto Medium Cabasa

In-ground and Surface Mount



Assembly View (*representative model*)

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.

Inspection Form

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

Inspection Codes

P = Pass

F = Fail

NA = Not Applicable

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

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

<i>MAINTENANCE SCHEDULE</i>	Item in Question	Description of Problem	Corrective Action	Date

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

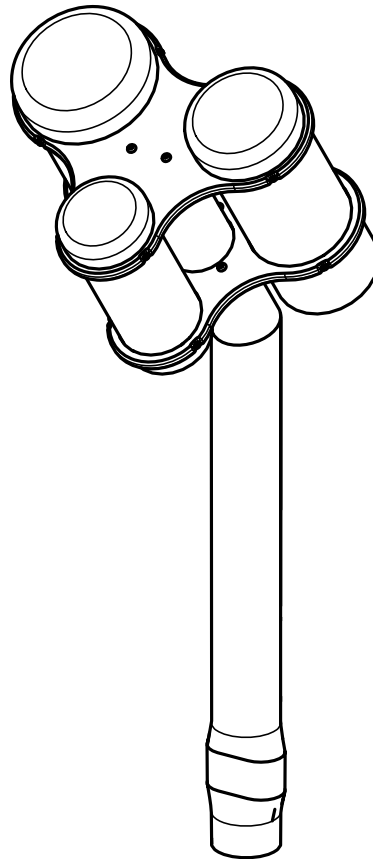


Installation Instructions

Models ZZXX0664, ZZXX0664S

Concerto™ Three Congas

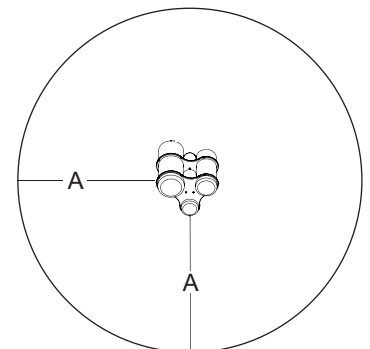
In-ground and Surface Mount Models



Assembly View (*representative model*)

Installation Preparation

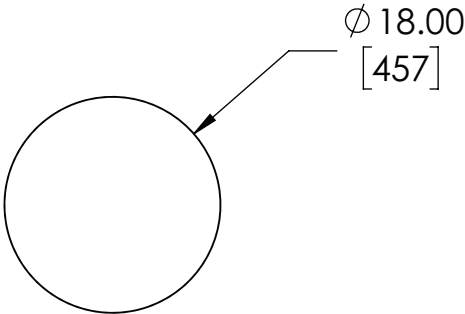
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour (In-ground)
Installation Time: 0.5 man-hours (Surface Mount)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14



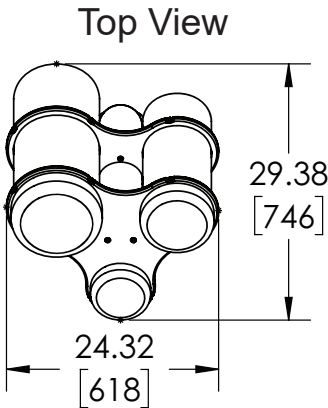
Equipment Use Zone
A - (ASTM): 72 in. (1830 mm)
(CSA): 1800 mm
(EN): 1500 mm

Installation Instructions

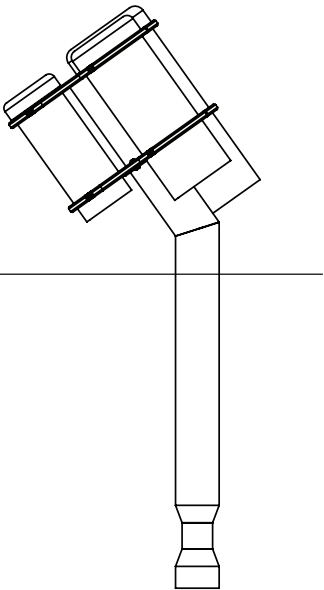
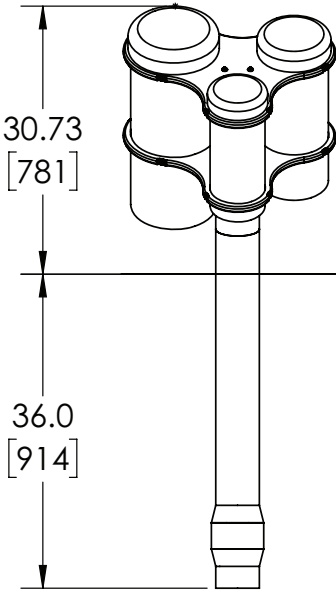
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footings Diagram



Top View



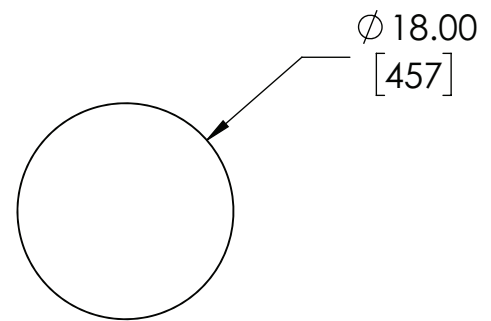
SURFACING LEVEL

Elevation Views
ZZXX0664

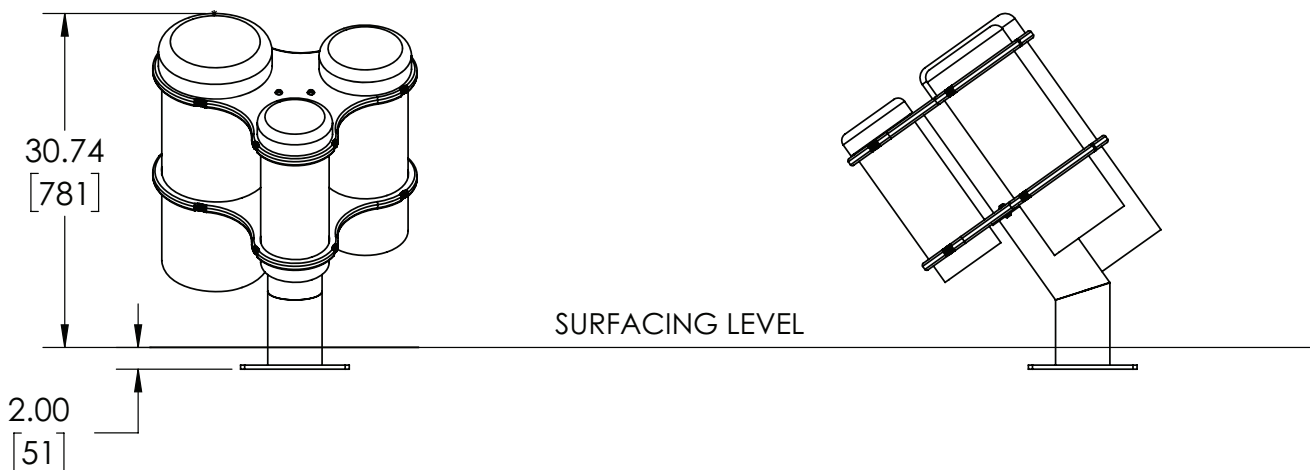
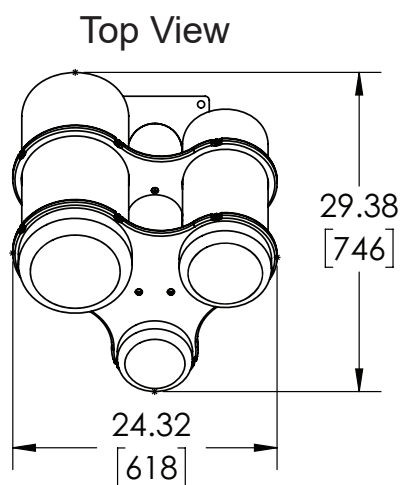
Installation Instructions

KEY

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



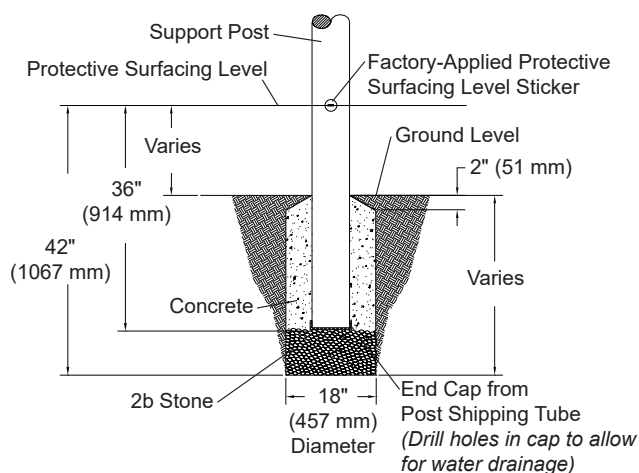
Footing Diagram



Elevation Views
ZZXX0664S

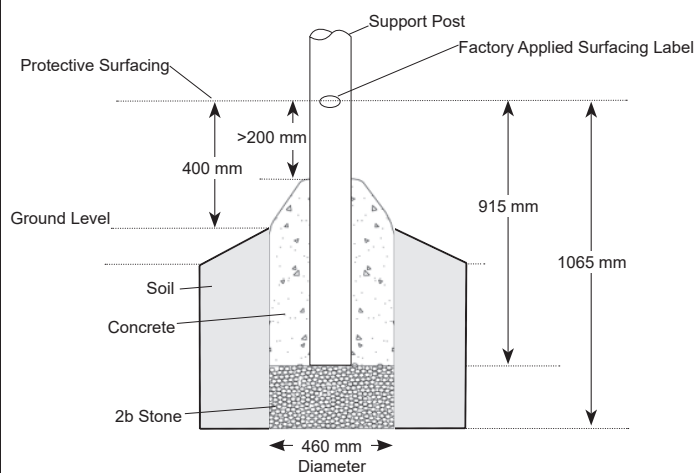
Installation Instructions

IN GROUND FOOTING DIAGRAMS: ASTM / CSA



Support Post Footing Detail (ASTM/CSA)

IN GROUND FOOTING DIAGRAMS: EN (EUROPE ONLY)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase bottom of support post in concrete. Place post directly on packed stone.

- The footings shown on this documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.

For example:

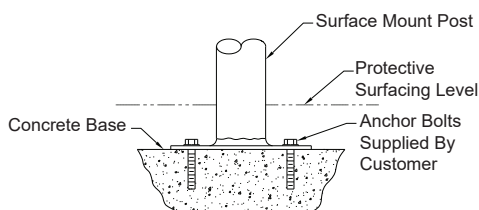
- If local soil is loose or unstable, a larger footing may be required.
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered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

- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

SURFACE MOUNT FOOTING DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

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

FOOTING NOTES: PIER TYPE SURFACE MOUNT





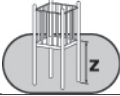
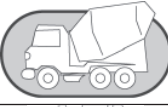

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing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

FOOTING NOTES: EXISTING CONCRETE SLAB TYPE SURFACE MOUNT

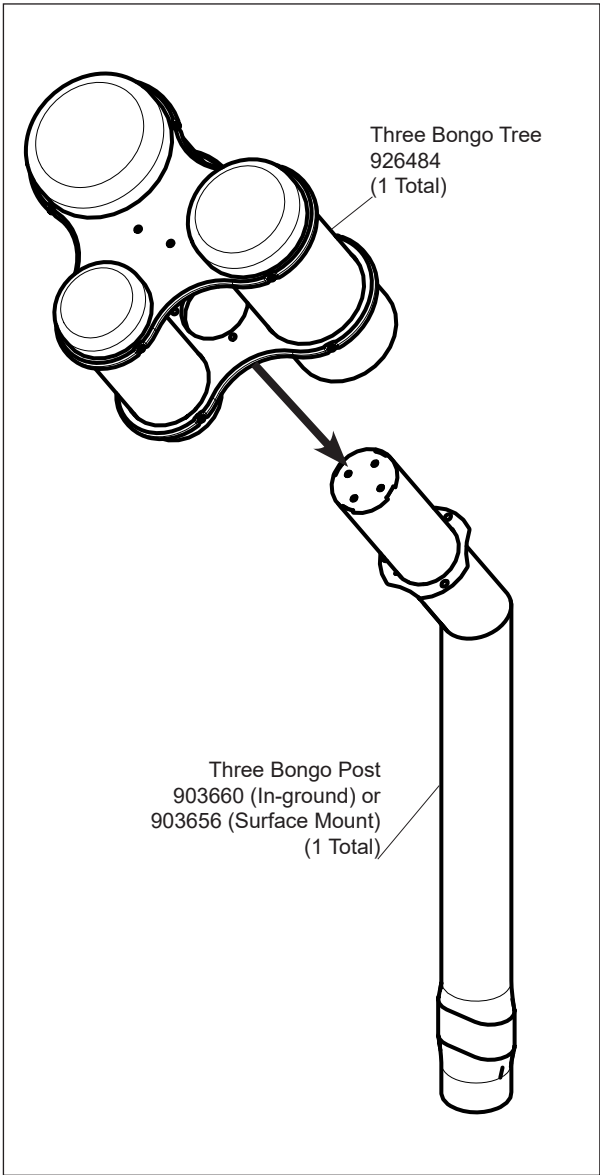
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- Support posts and all attaching decks and play components must be plumb and level.

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

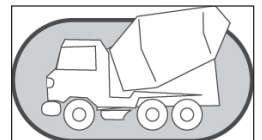
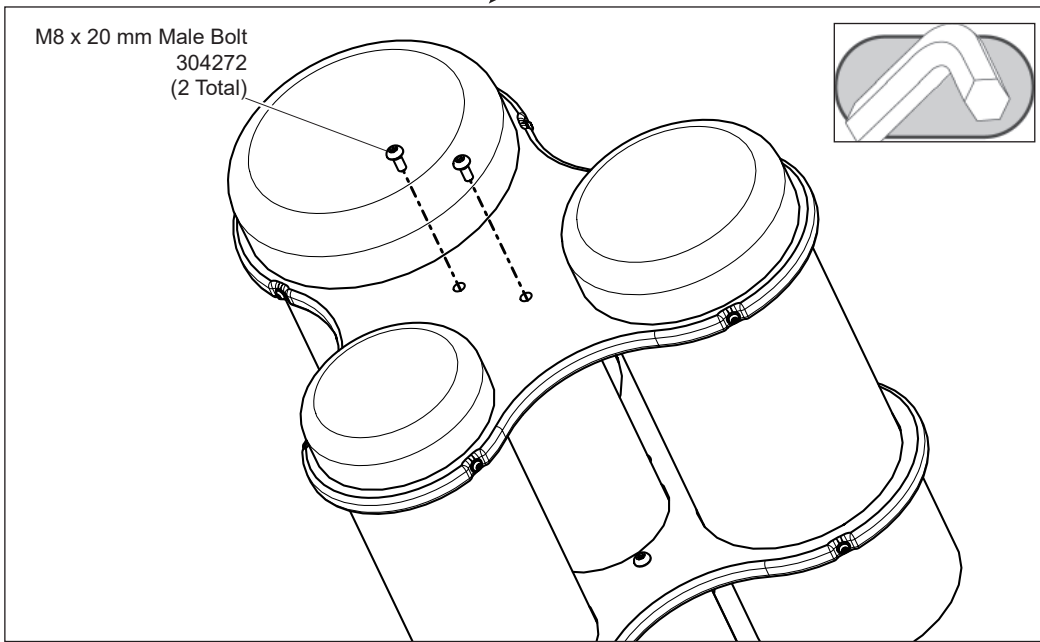
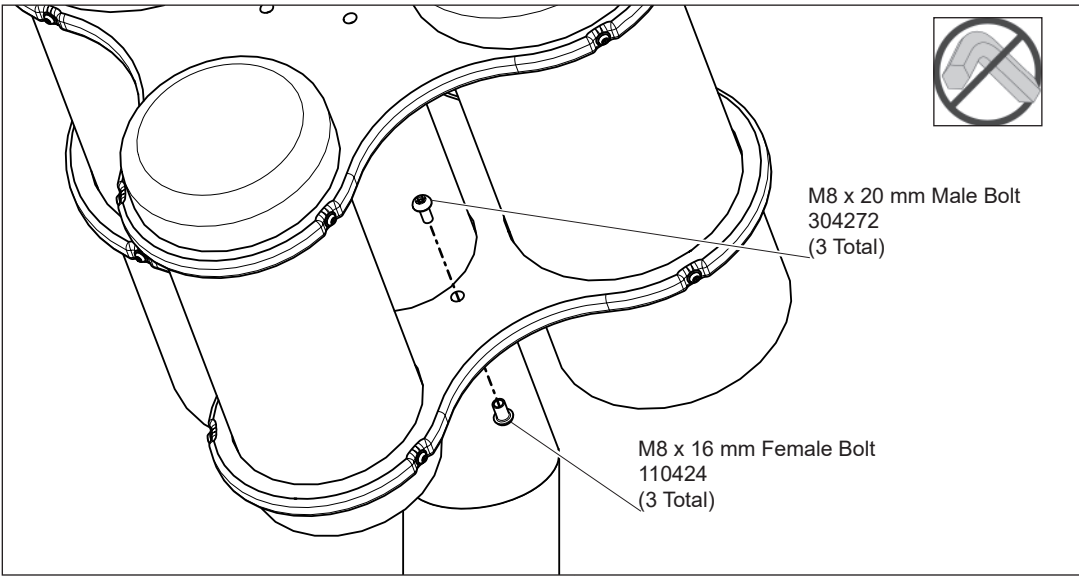
Installation Instructions

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

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



Installation Instructions



ZZXX0664 - CONCERTO THREE CONGAS IN-GROUND

PART NO.	DESCRIPTION	QTY.
903660	POST - 3 BONGO	1
926484	3 BONGO TREE	1
304272	BOLT M8 x 1.25 MALE 20 mm	5
110424	BOLT M8 x 1.25 FEMALE 10.3 x 16 mm	3
BAE0922*	TOOL - TT 45 L WRENCH	2
ASY0589	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

ZZXX0664S - CONCERTO THREE CONGAS SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
903656	POST - 3 BONGO SM	1
926484	3 BONGO TREE	1
304272	BOLT M8 x 1.25 MALE 20 mm	5
110424	BOLT M8 x 1.25 FEMALE 10.3 x 16 mm	3
BAE0922*	TOOL - TT 45 L WRENCH	2
ASY0589	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

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

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

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

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

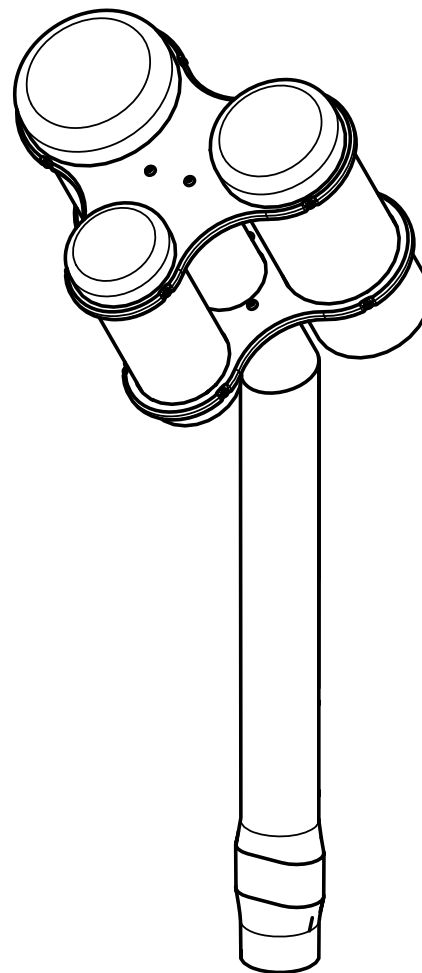
- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Equipment Maintenance

Models ZZXX0664, ZZXX0664S

Concerto Three Congas

In-ground and Surface Mount



Assembly View (*representative model*)

Replacement Parts

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

Inspection Form

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

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

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

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

MAINTENANCE SCHEDULE	Item in Question	Description of Problem	Corrective Action	Date

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

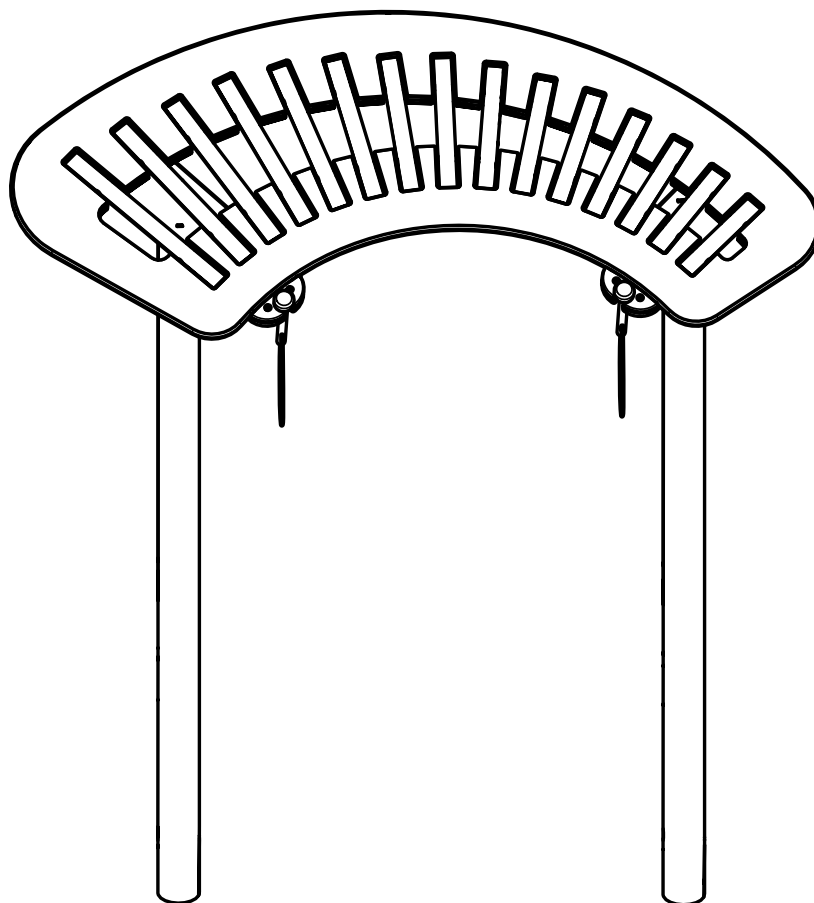


Installation Instructions

Models ZZXX0666, ZZXX0666S

Concerto™ Vibes

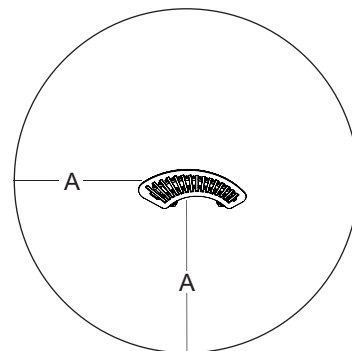
In-ground and Surface Mount Models



Assembly View (representative model)

Installation Preparation

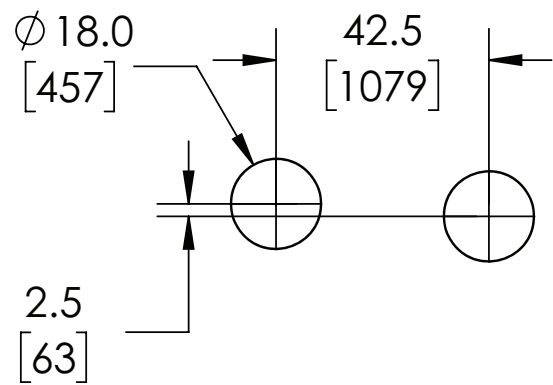
Recommended Crew: Two (2) adults
Installation Time: 2 man-hours (In-ground)
Installation Time: 1 man-hour (Surface Mount)
Concrete Required: 0.26 cubic yard (0,20 cubic meters)
User Group Age (years): ASTM: 2-12, CSA: 1.5-12, EN: 2-14



Equipment Use Zone
A - (ASTM): 72 in. (1830 mm)
(CSA): 1800 mm
(EN): 1500 mm

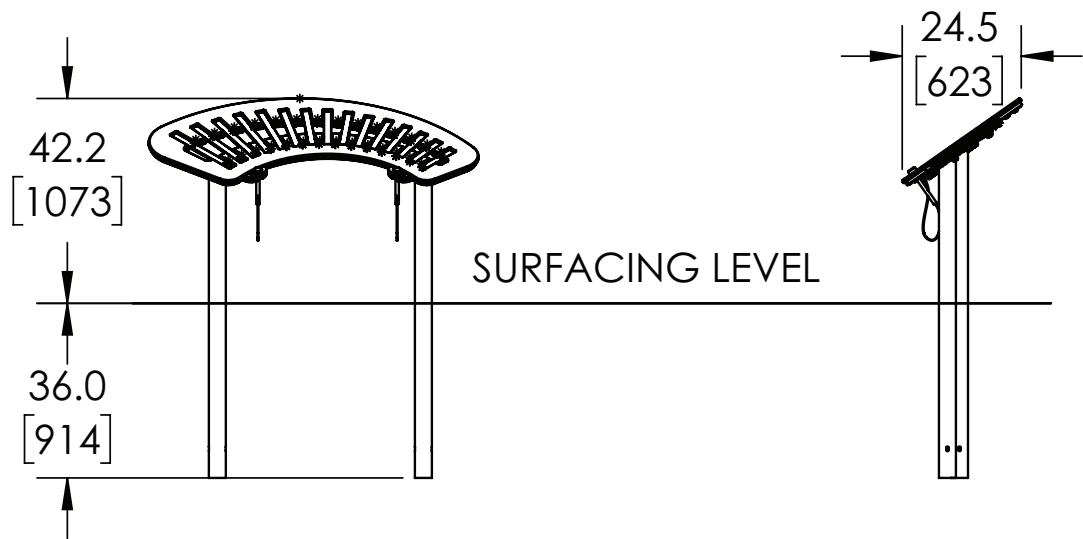
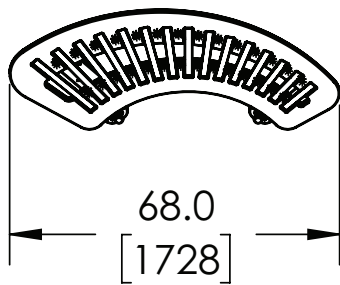
Installation Instructions

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



Footing Diagram

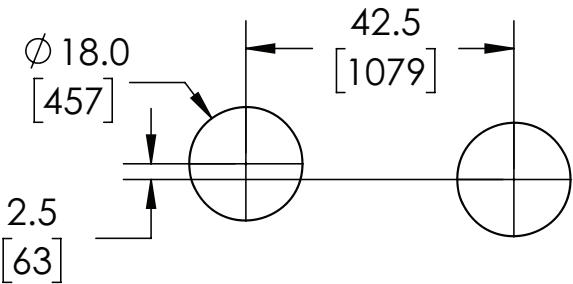
Top View



Elevation Views
ZZXX0666

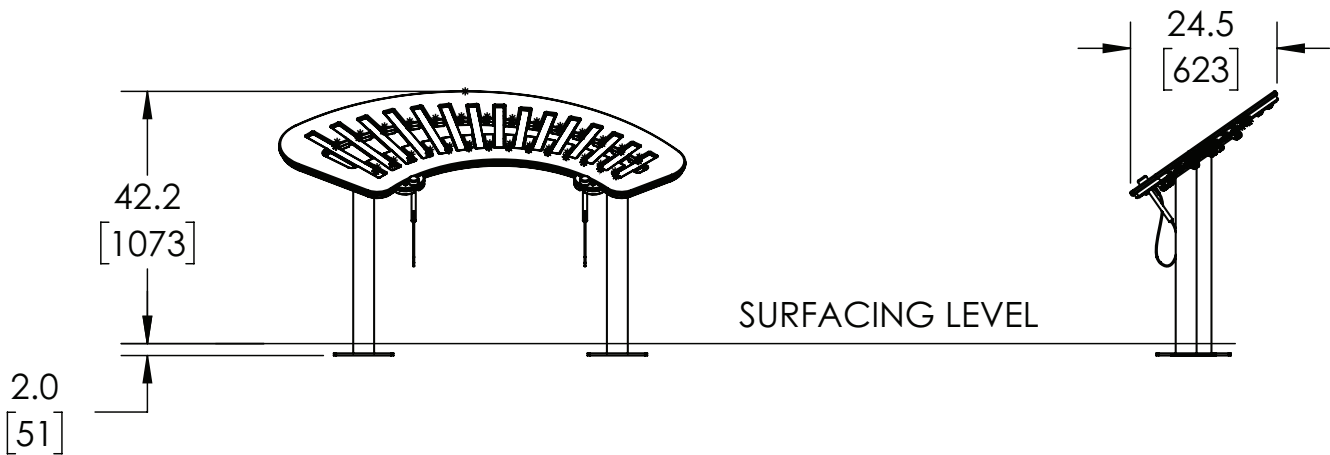
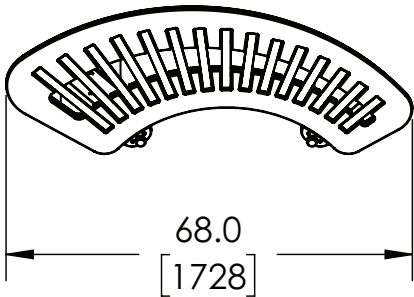
Installation Instructions

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



Footing Diagram

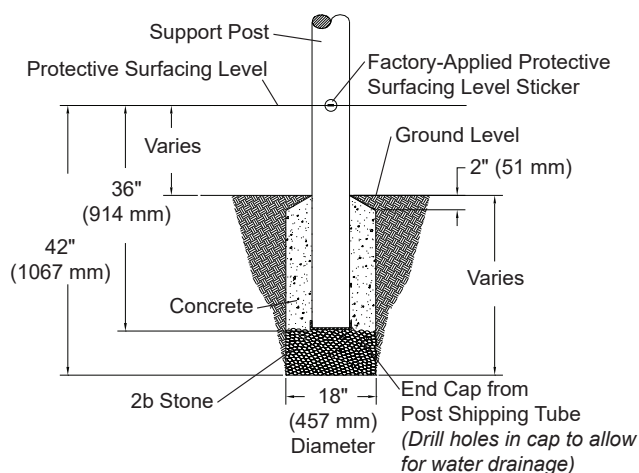
Top View



Elevation Views
ZZXX0666S

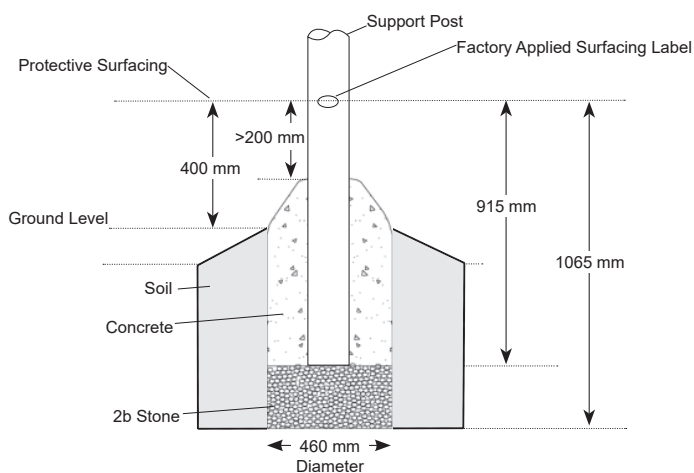
Installation Instructions

IN GROUND FOOTING DIAGRAMS: ASTM / CSA



Support Post Footing Detail (ASTM/CSA)

IN GROUND FOOTING DIAGRAMS: EN (EUROPE ONLY)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase bottom of support post in concrete. Place post directly on packed stone.

- The footings shown on this documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.

For example:

- If local soil is loose or unstable, a larger footing may be required.

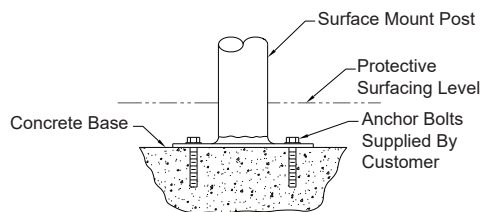
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

SURFACE MOUNT FOOTING DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

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

FOOTING NOTES: PIER TYPE SURFACE MOUNT








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

FOOTING NOTES: EXISTING CONCRETE SLAB TYPE SURFACE MOUNT

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

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

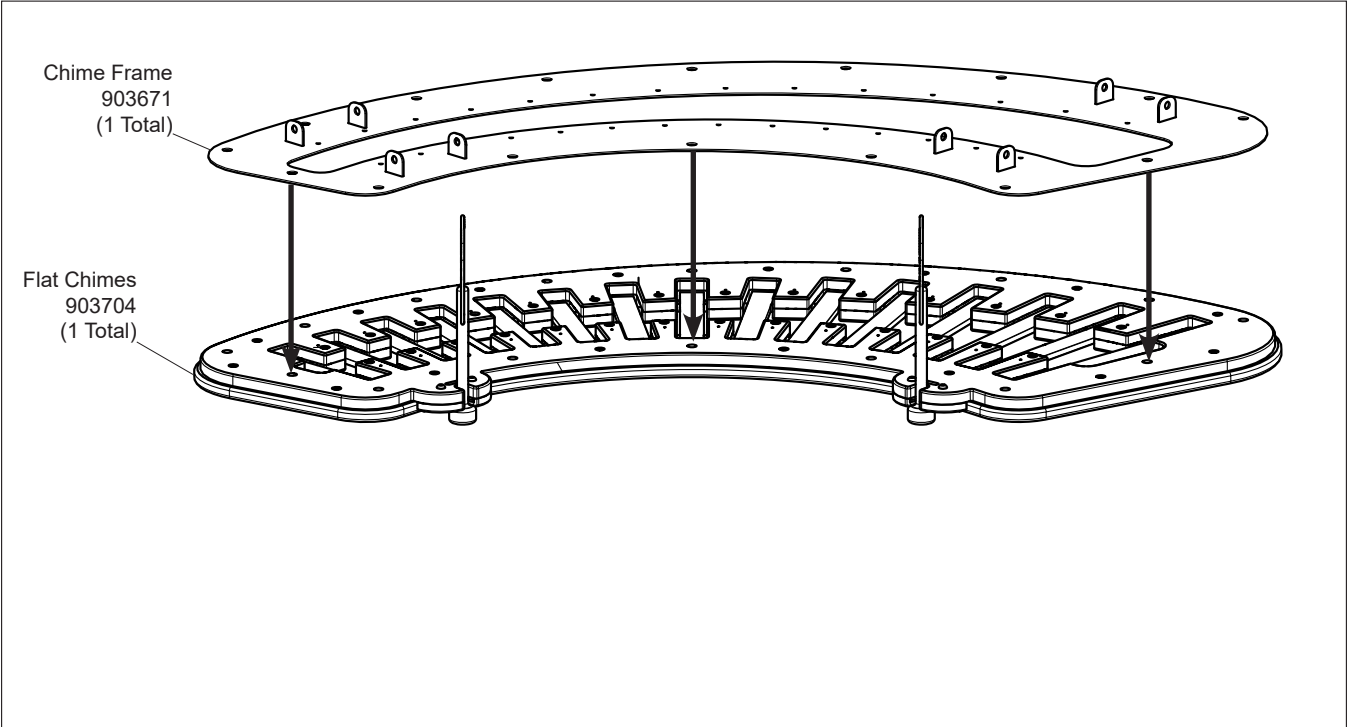
Installation Instructions

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

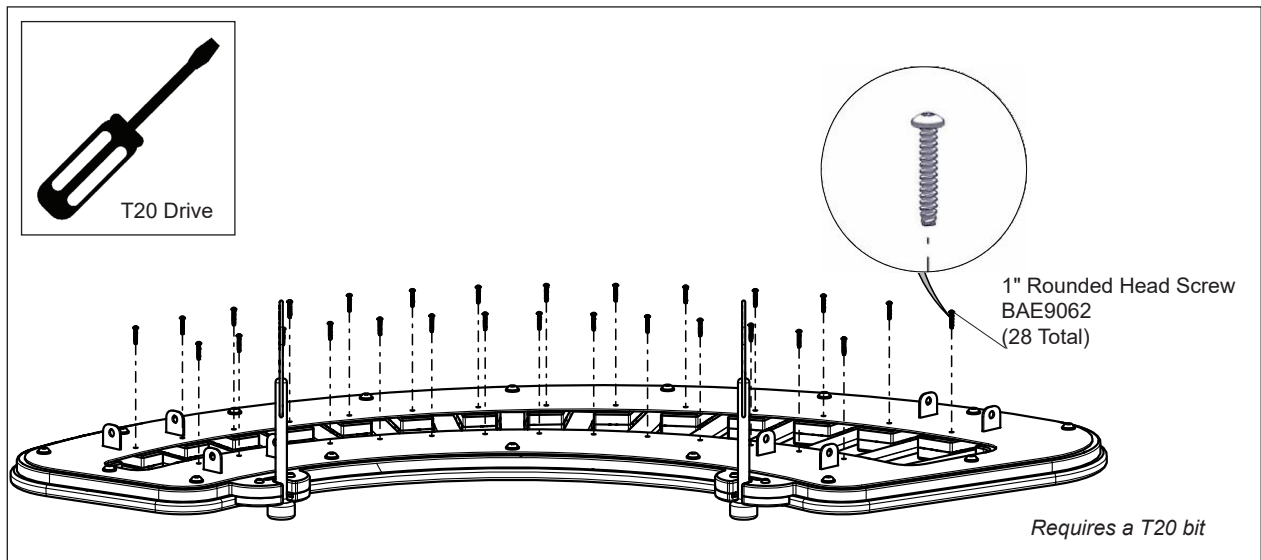
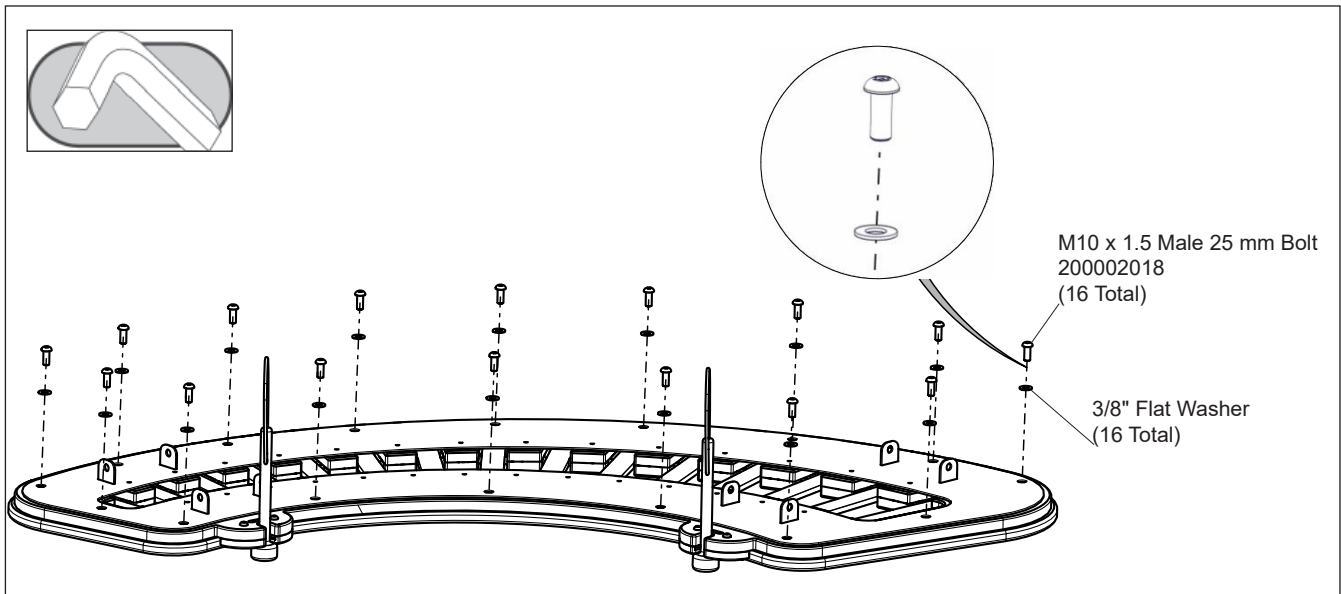
Installation Instructions:

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

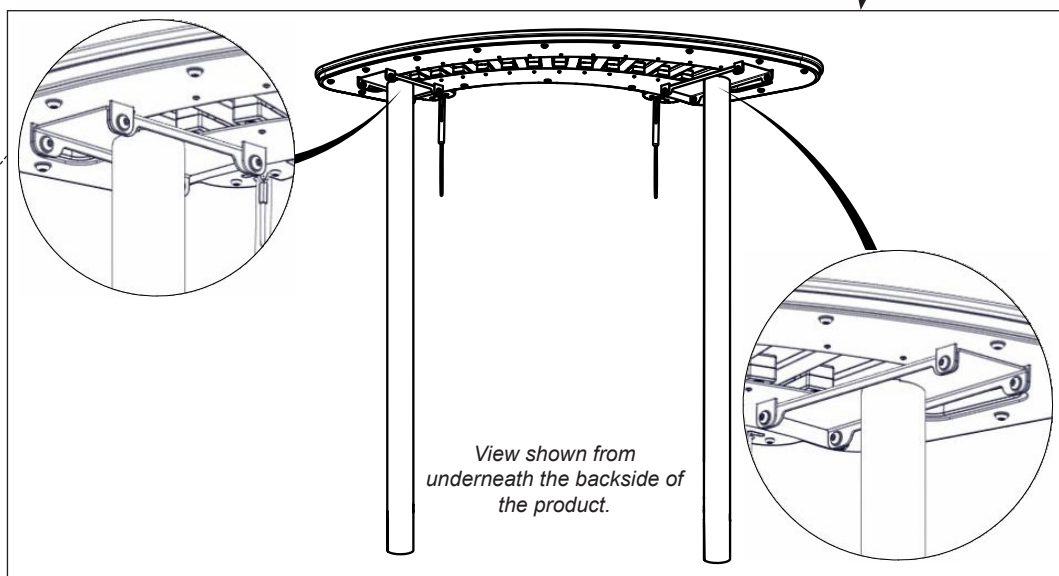
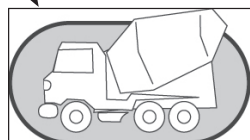
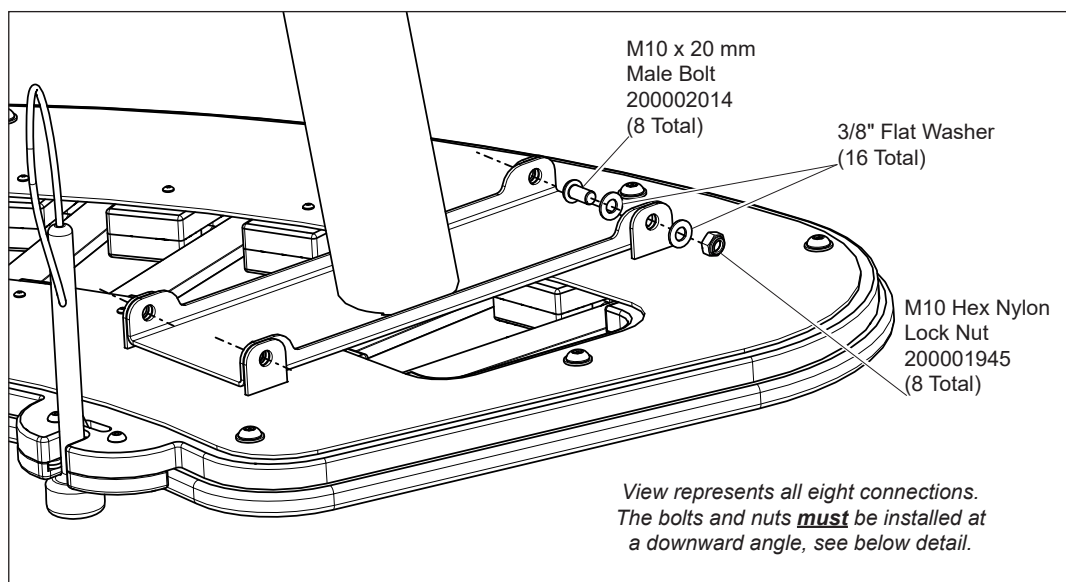
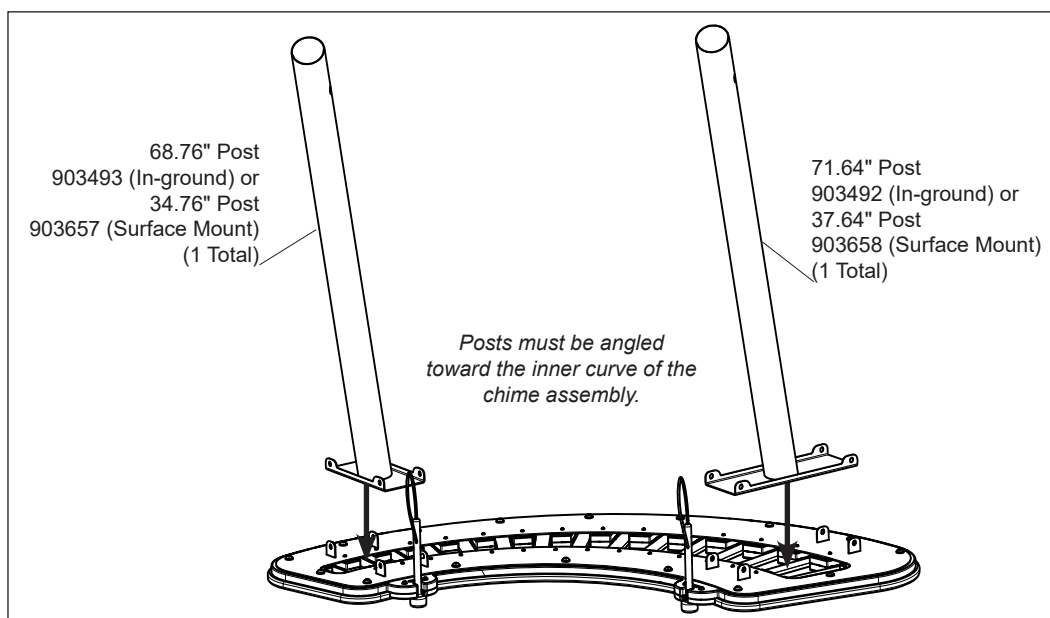
Place upside-down on ground for assembly and remove M10 x 1.5 Male 25 mm Bolts.



Installation Instructions



Installation Instructions



ZZXX0666 - CONCERTO VIBES IN-GROUND

PART NO.	DESCRIPTION	QTY.
903492	POST - 71.64" x 12.56" x 14.63"	1
903493	POST - 68.76" x 9.48" x 10.81"	1
903671	FRAME - CONCERTO FLAT CHIME	1
903704	FLAT CHIMES	1
200001945	NUT LOCK HEX NYLON INSERTED M10 x 1.5	8
200002014	BOLT M10 x 1.5 MALE 20 mm	8
200002018	BOLT M10 x 1.5 MALE 25 mm	16
BAE0595*	WASHER - 3/8" SAE FLAT	32
BAE9062	SCREW #8 x 1.00" ROUNDED HEAD TORX	28
ASY0589**	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

- For replacement purposes only, the part number for the mallet is 0903412 (qty. 1)

** Label kit part numbers may differ depending on model

ZZXX0666S - CONCERTO VIBES SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
903657	POST - 34.76" x 10.81" x 10.00"	1
903658	POST - 37.64 x 12.67" x 14.78"	1
903671	FRAME - CONCERTO FLAT CHIME	1
903704	FLAT CHIMES	1
200001945	NUT LOCK HEX NYLON INSERTED M10 x 1.5	8
200002014	BOLT M10 x 1.5 MALE 20 MM	8
200002018	BOLT M10 x 1.5 MALE 25 MM	16
BAE0595*	WASHER - 3/8" SAE FLAT	32
BAE9062	SCREW #8 x 1.00" ROUNDED HEAD TORX	28
ASY0589**	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

- For replacement purposes only, the part number for the mallet is 0903412 (qty. 1)

** Label kit part numbers may differ depending on model

*Some models may include part number 117005 in place of the BAE0595.

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intentionally left blank.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Replacement Parts

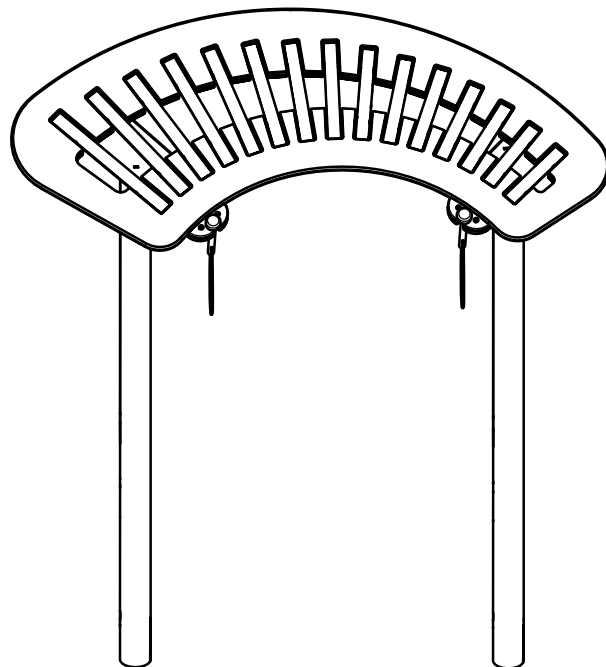
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Models ZZXX0666, ZZXX0666S

Concerto Vibes

In-ground and Surface Mount



Assembly View (*representative model*)

Inspection Form

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

Inspection Codes

P = Pass F = Fail

NA = Not Applicable

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

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

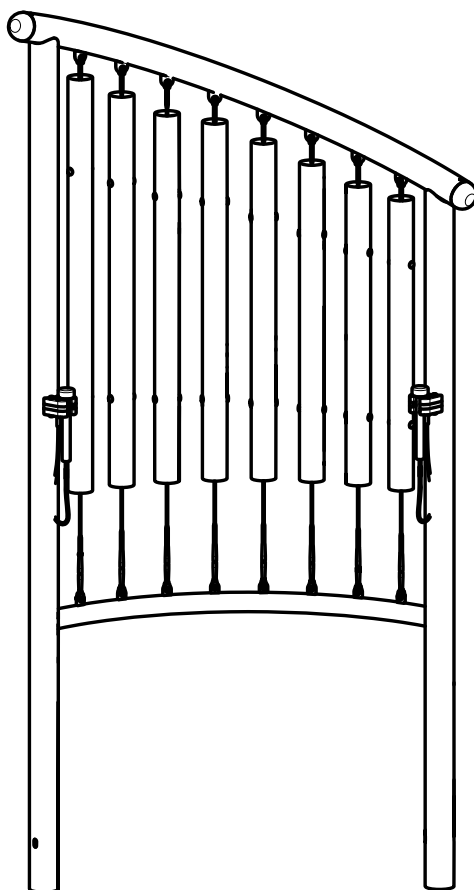
MAINTENANCE SCHEDULE	Item in Question	Description of Problem	Corrective Action	Date

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



Installation Instructions

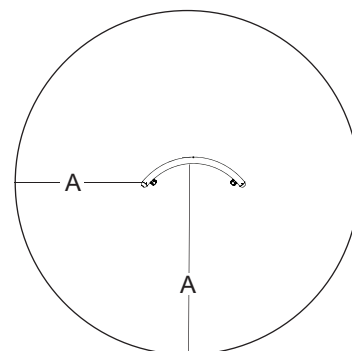
Models ZZXX0667, ZZXX0667S
Concerto™ Chimes
In-ground and Surface Mount Models



Assembly View (*representative model*)

Installation Preparation

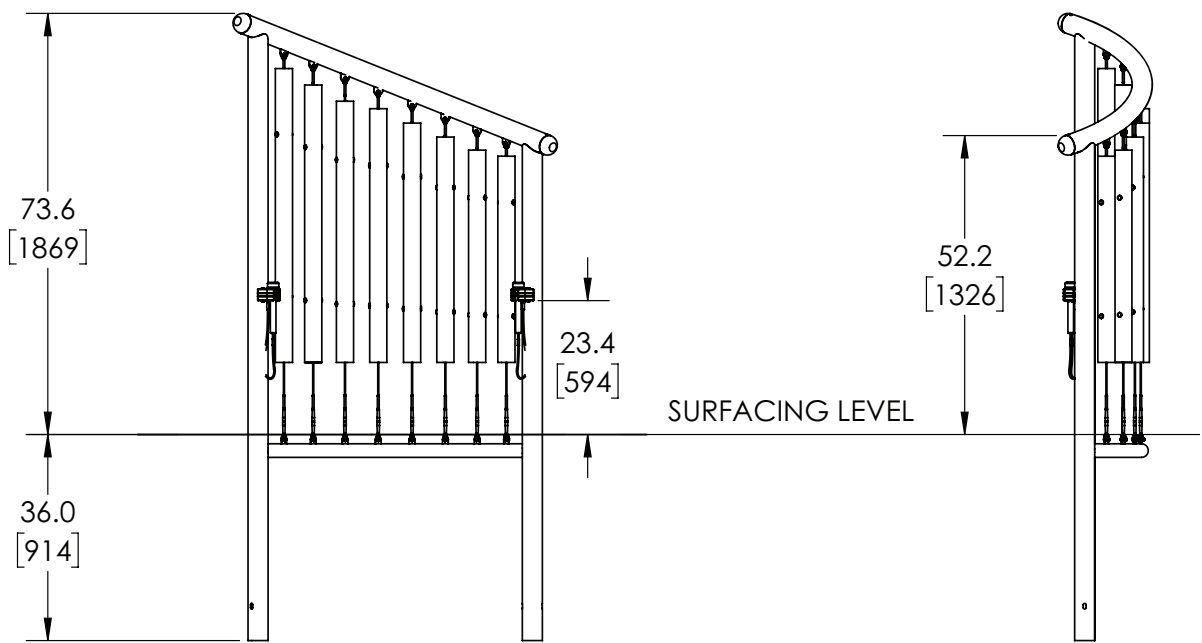
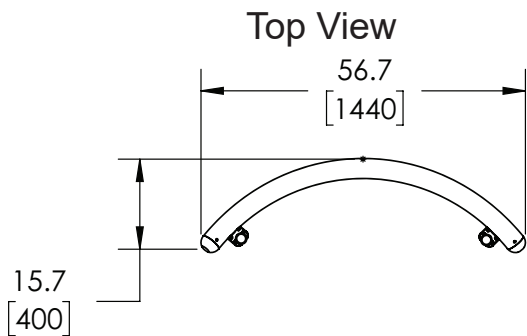
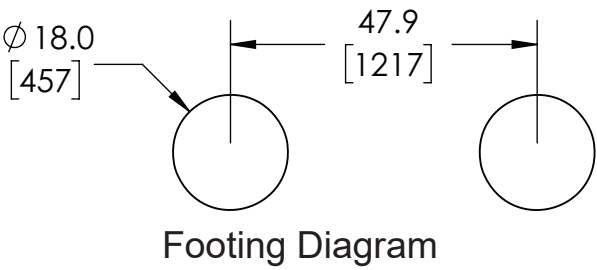
Recommended Crew: Two (2) adults
Installation Time: 2 man-hours (In-ground)
Installation Time: 1 man-hour (Surface mount)
Concrete Required: 0.26 cubic yard (0,20 cubic meters)
User Group Age (years): ASTM: 2-12, CSA: 1.5-12, EN: 2-14



Equipment Use Zone
A - (ASTM): 72 in. (1830 mm)
(CSA): 1800 mm
(EN): 1500 mm

Installation Instructions

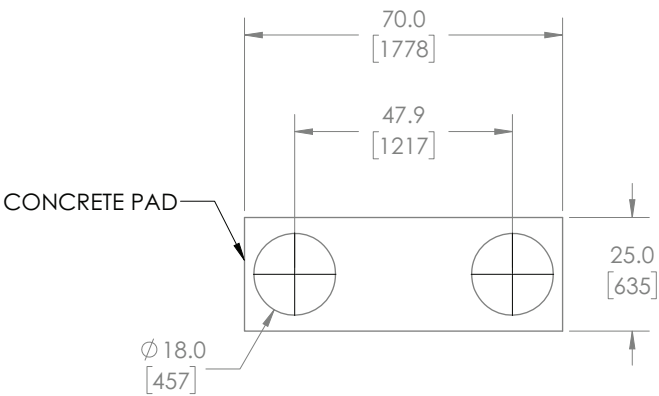
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



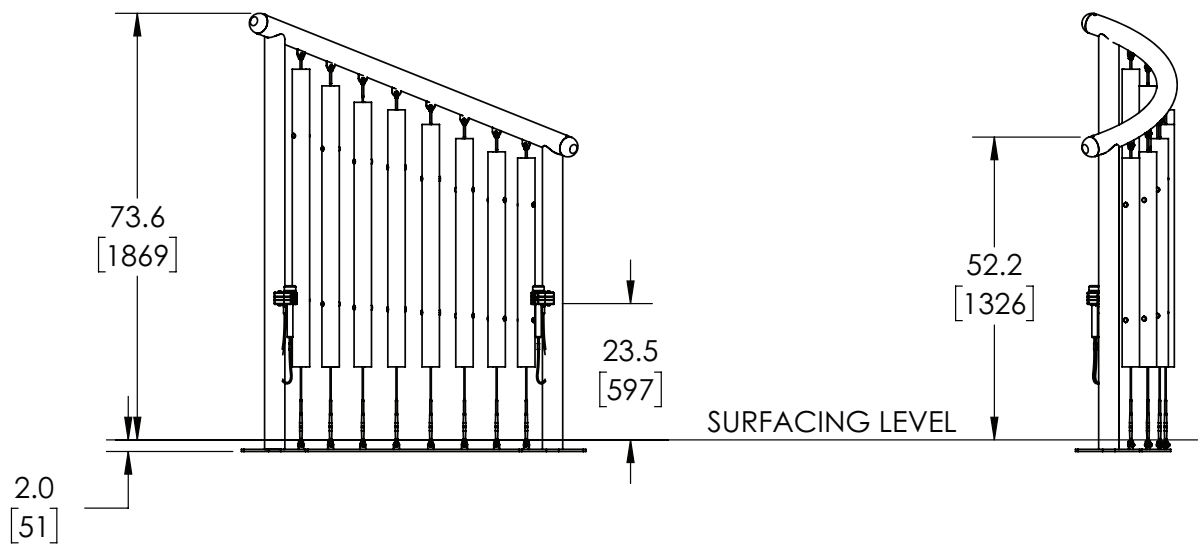
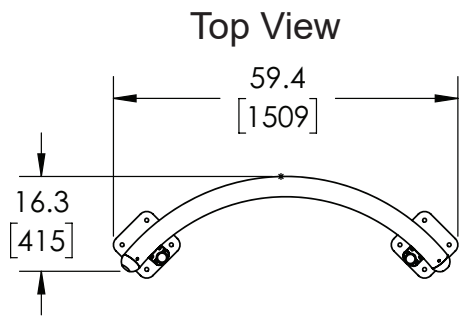
ZZXX0667

Installation Instructions

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



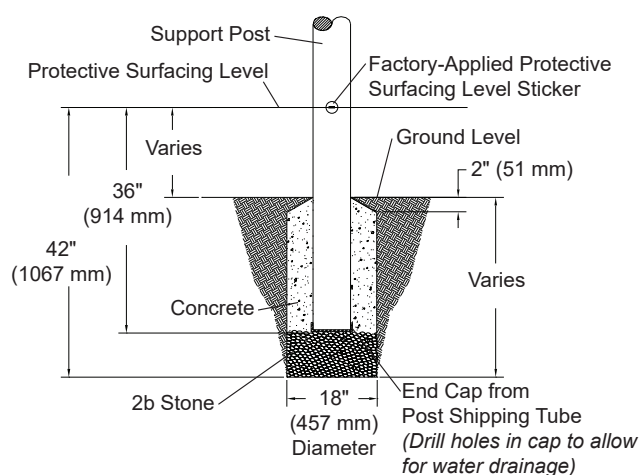
Footing Diagram



Elevation Views
ZZXX0667S

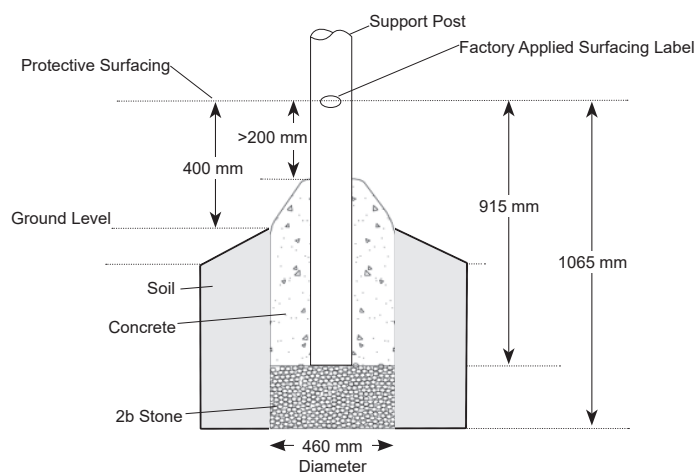
Installation Instructions

IN GROUND FOOTING DIAGRAMS: ASTM / CSA



Support Post Footing Detail (ASTM/CSA)

IN GROUND FOOTING DIAGRAMS: EN (EUROPE ONLY)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.

Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase bottom of support post in concrete. Place post directly on packed stone.

- The footings shown on this documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.

For example:

- If local soil is loose or unstable, a larger footing may be required.

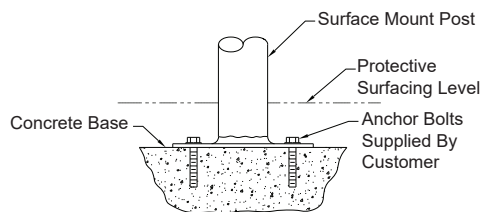
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

SURFACE MOUNT FOOTING DIAGRAMS: SUPPORT POSTS AND COMPONENTS



Surface Mount Footing Detail

DEFINITIONS

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

FOOTING NOTES: PIER TYPE SURFACE MOUNT

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

FOOTING NOTES: EXISTING CONCRETE SLAB TYPE SURFACE MOUNT

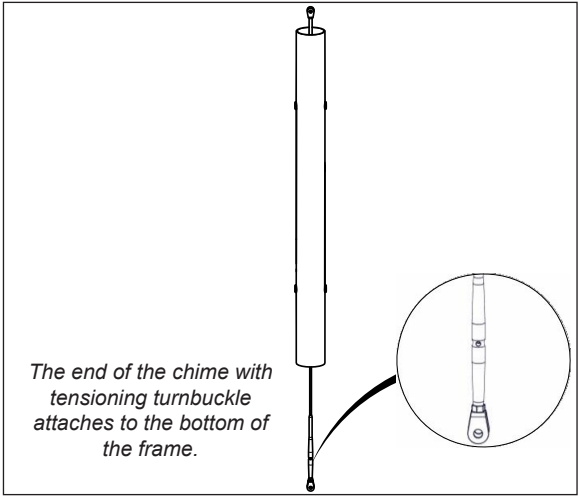
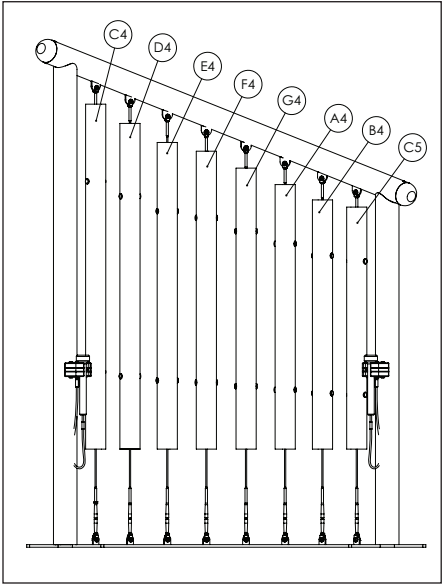
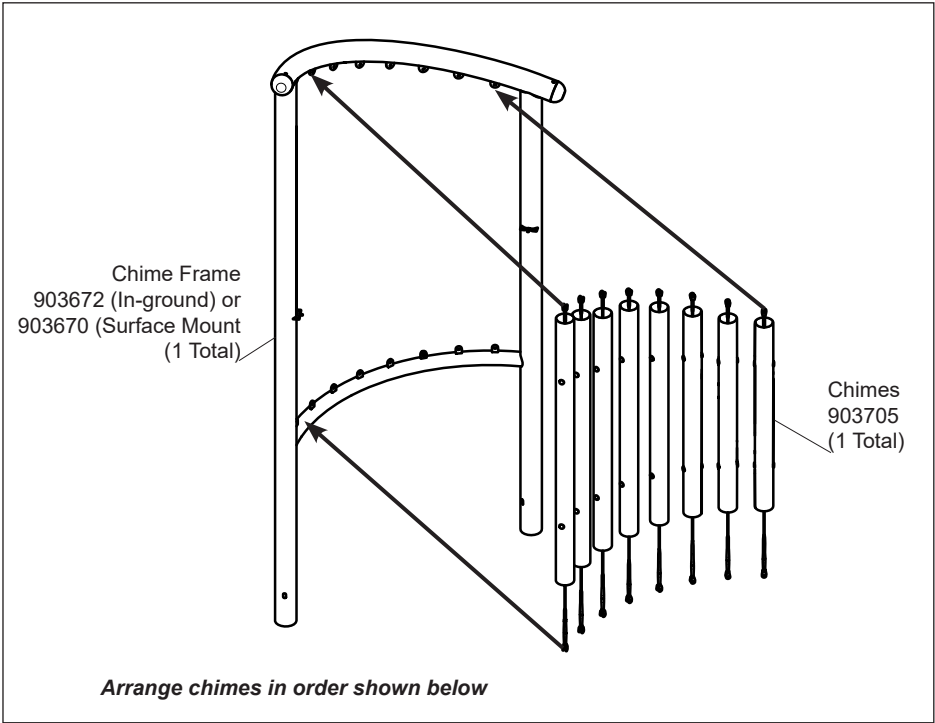
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- Support posts and all attaching decks and play components must be plumb and level.

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

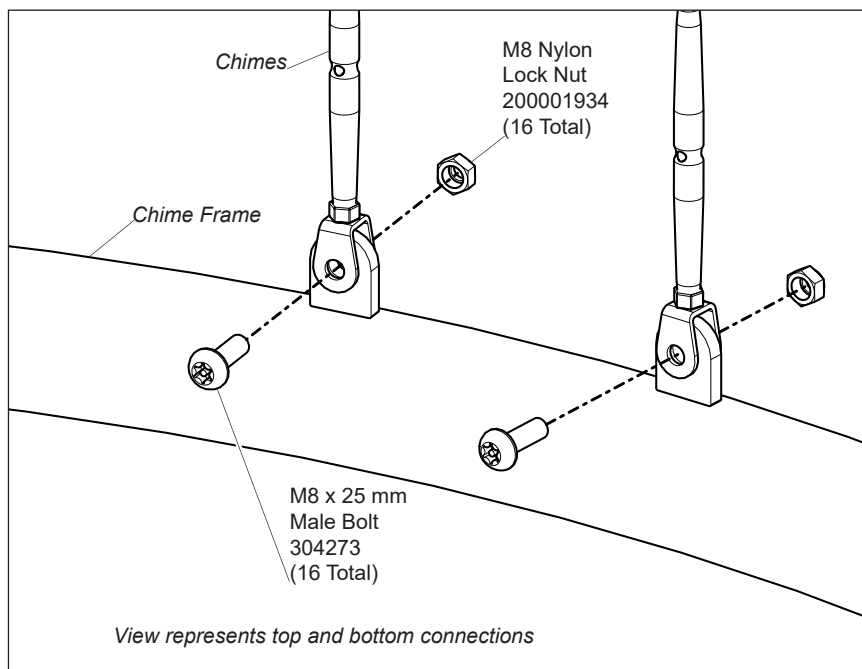
Installation Instructions

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

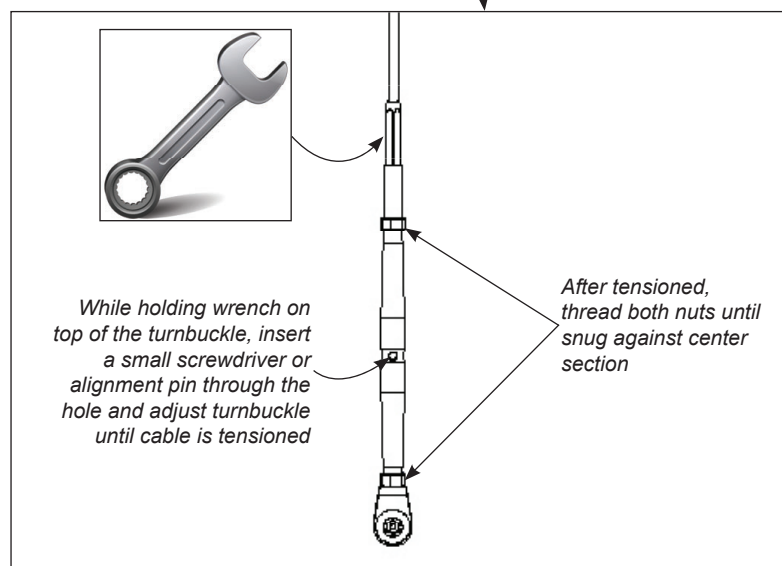
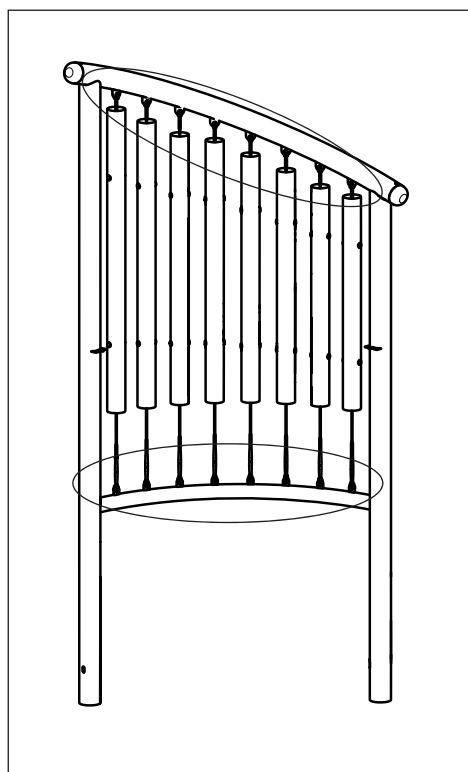
- Installation Instructions:**
1. Prepare footings as shown on pages 4 and 5 of this document.
 2. Assemble equipment as shown.
 3. Place equipment in, or on, its footings and block and brace.
 4. Plumb and level equipment and tighten all hardware.



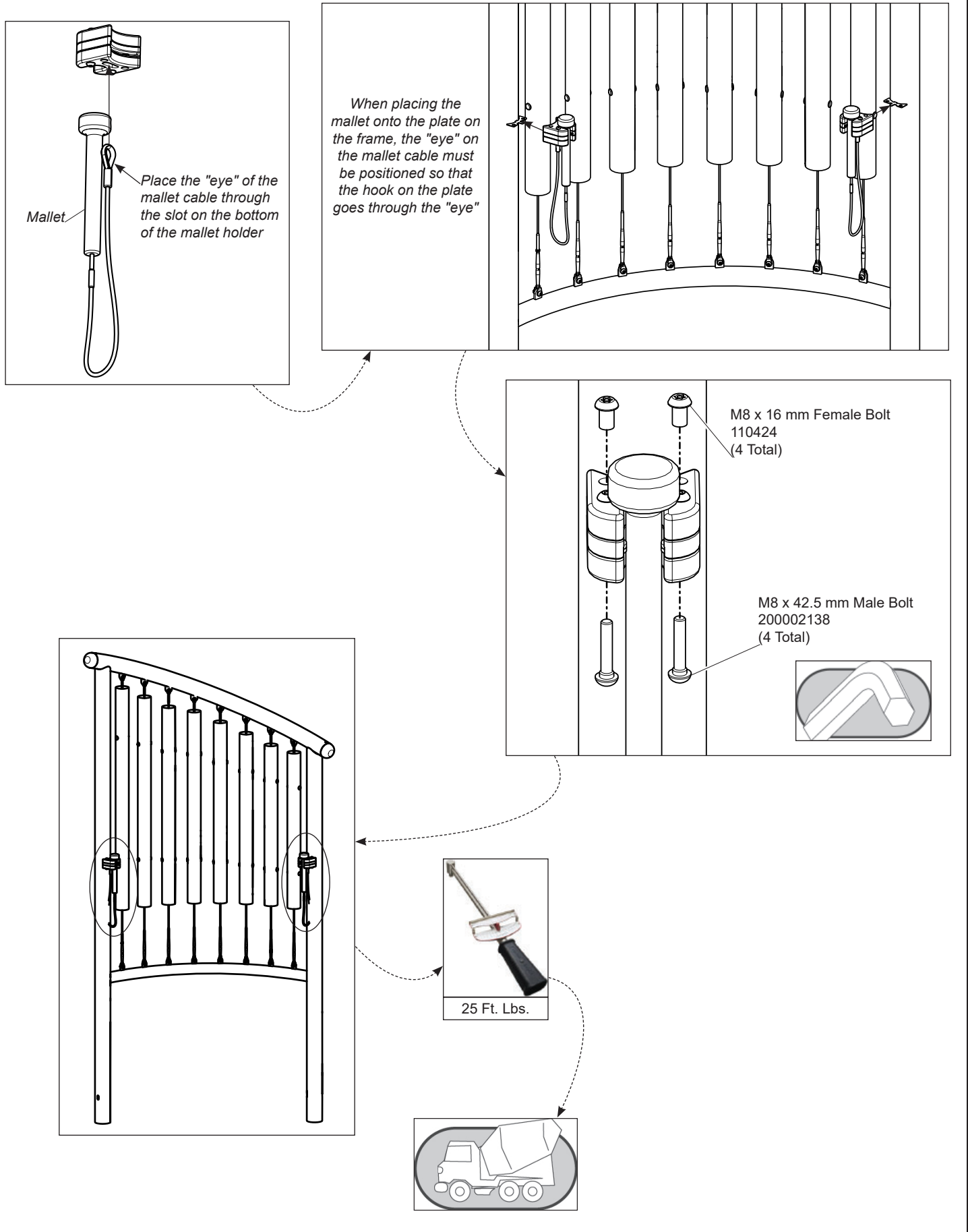
Installation Instructions



Important Note (Surface Mount Verion Only):
Install anchor bolts to concrete pad prior to tensioning.



Installation Instructions



ZZXX0667 - CONCERTO CHIMES IN-GROUND

PART NO.	DESCRIPTION	QTY.
110424	BOLT M8 x 1.25 FEMALE 10.3 x 16 mm	4
304273	BOLT M8 x 1.25 MALE 25 mm	16
903672	FRAME - 109.57" x 56.67" x 15.63"	1
903705	TALL CHIMES WITH MALLETS	1
200001934	NUT LOCK HEX NYLON INSERTED M8 x 1.25	16
200002138	BOLT M8 x 1.25 MALE 42.5 mm	4
BAE0922*	TOOL - TT 45 L WRENCH	2
ASY0589**	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

- For replacement purposes only, the part number for the mallet is 0903413 (qty. 1)

** Label kit part numbers may differ depending on model

ZZXX0667S - CONCERTO CHIMES SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
110424	BOLT M8 x 1.25 FEMALE 10.3 x 16 mm	4
304273	BOLT M8 x 1.25 MALE 25 mm	16
903495	TALL CHIME ANCHOR PLATE	1
903670	FRAME - 75.57" x 59.40" x 17.38"	1
903705	TALL CHIMES WITH MALLETS	1
200001934	NUT LOCK HEX NYLON INSERTED M8 x 1.25	16
200002138	BOLT M8 x 1.25 MALE 42.5 mm	4
BAE0922*	TOOL - TT 45 L WRENCH	2
ASY0589**	LABEL KIT - 18 MTHS - 12 YRS ASTM, CSA, FRENCH	1

- For replacement purposes only, the part number for the mallet is 0903413 (qty. 1)

** Label kit part numbers may differ depending on model

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

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intentionally left blank.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed.

Replacement Parts

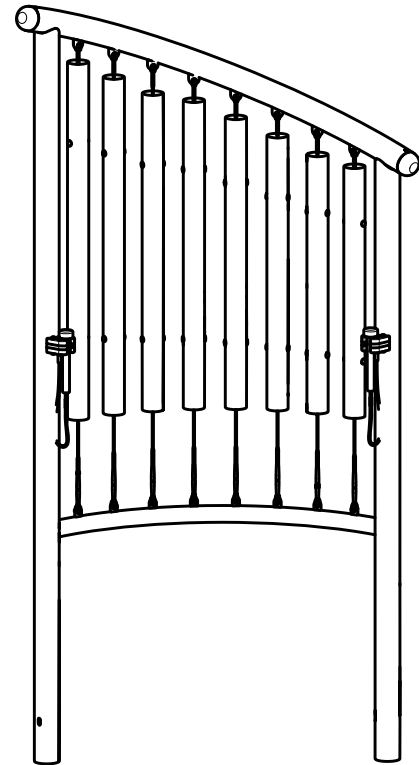
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Models ZZXX0667, ZZXX0667S

Concerto Chimes

In-ground and Surface Mount



Assembly View (*representative model*)

Inspection Form

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

Inspection Codes

P = Pass

F = Fail

NA = Not Applicable

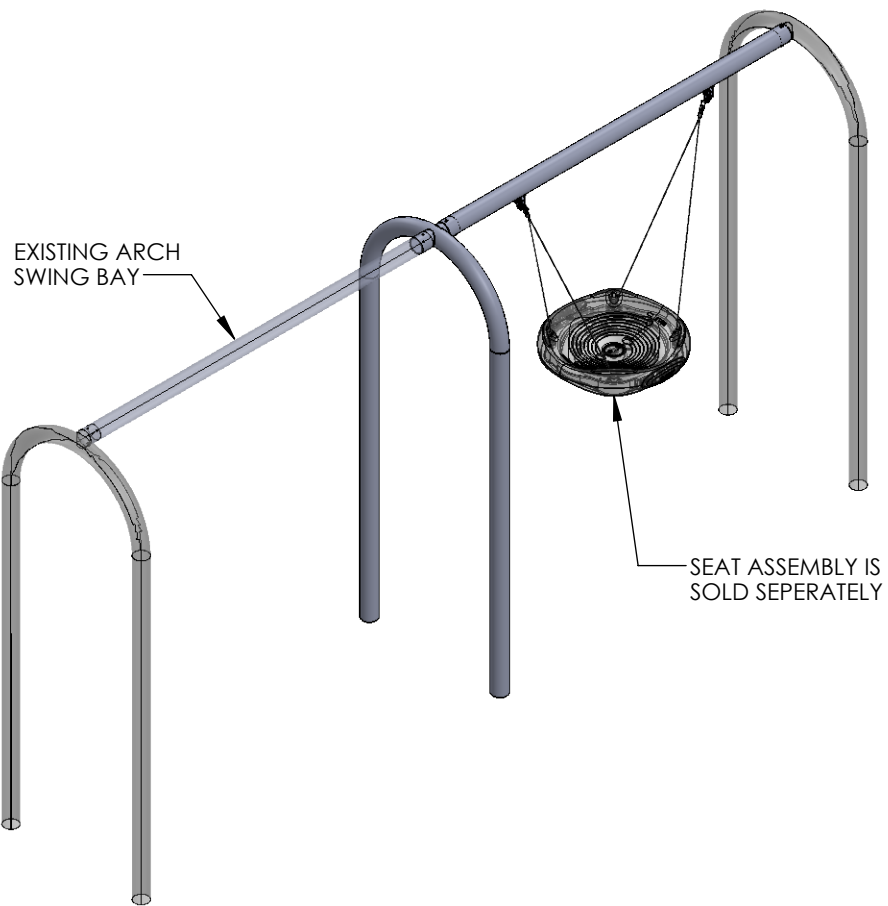
<i>INSPECTION CHECKLIST</i>	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for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

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

<i>MAINTENANCE SCHEDULE</i>	Item in Question	Description of Problem	Corrective Action	Date

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


DO NOT SCALE



REF	PART NUMBER	DESCRIPTION	QTY.
1	APT0145	POST - 5.00" OD x 133.50" DUAL ALUMINUM ARCH SUPPORT	1
2	ATM0251	FAB METAL - 1.25" x 2.63" x 3.38"	2
3	ATM0252	SHAFT - .50" DIA x 2.62"	4
4	ATM0319	FAB METAL - .88" x 1.50" x 3.00"	2
5	AY7464A	BEAM - 5.00" x 126.00" TOP RAIL	1
6	BAE01524	BOLT - 1/4-20 x .75" BUTTON HEAD - STAINLESS STEEL	8
7	BAE0620	NUT - 3/8-16 LOCK W/NYLON CAP	2
8	BAE0630	SCREW - 3/8-16 x 1/2" SOCKET SET STAINLESS STEEL	4
9	BAE06686	BOLT - 3/8-16 x 5.50" BUTTON HEAD - STAINLESS STEEL	2
10	BAE0900	WRENCH - 5/32" SHORT HEX KEY	1
11	BAE0905	WRENCH - 3/16" HEX KEY	1
12	BAE0906	TOOL - 5/16 SHORT HEX KEY WRENCH	1
13	BAE0922	TOOL - TT 45 L WRENCH	1
14	BAE1757	BEARING - SAE841 .50" ID x .63" OD x .50"	4
15	BAE1758	BEARING - SAE841 .50" ID x .63" OD x .63"	4
16	BAE9093	BUSHING - .399" ID x .560" OD x .500"	2

NOTES:

- 1) EXISTING ARCH IS REPLACED BY DUAL SUPPORT ARCH AND REPOSITIONED TO THE END OF THE BAY ADDITION.
- 2) SEAT ASSEMBLY IS SOLD SEPERATELY.



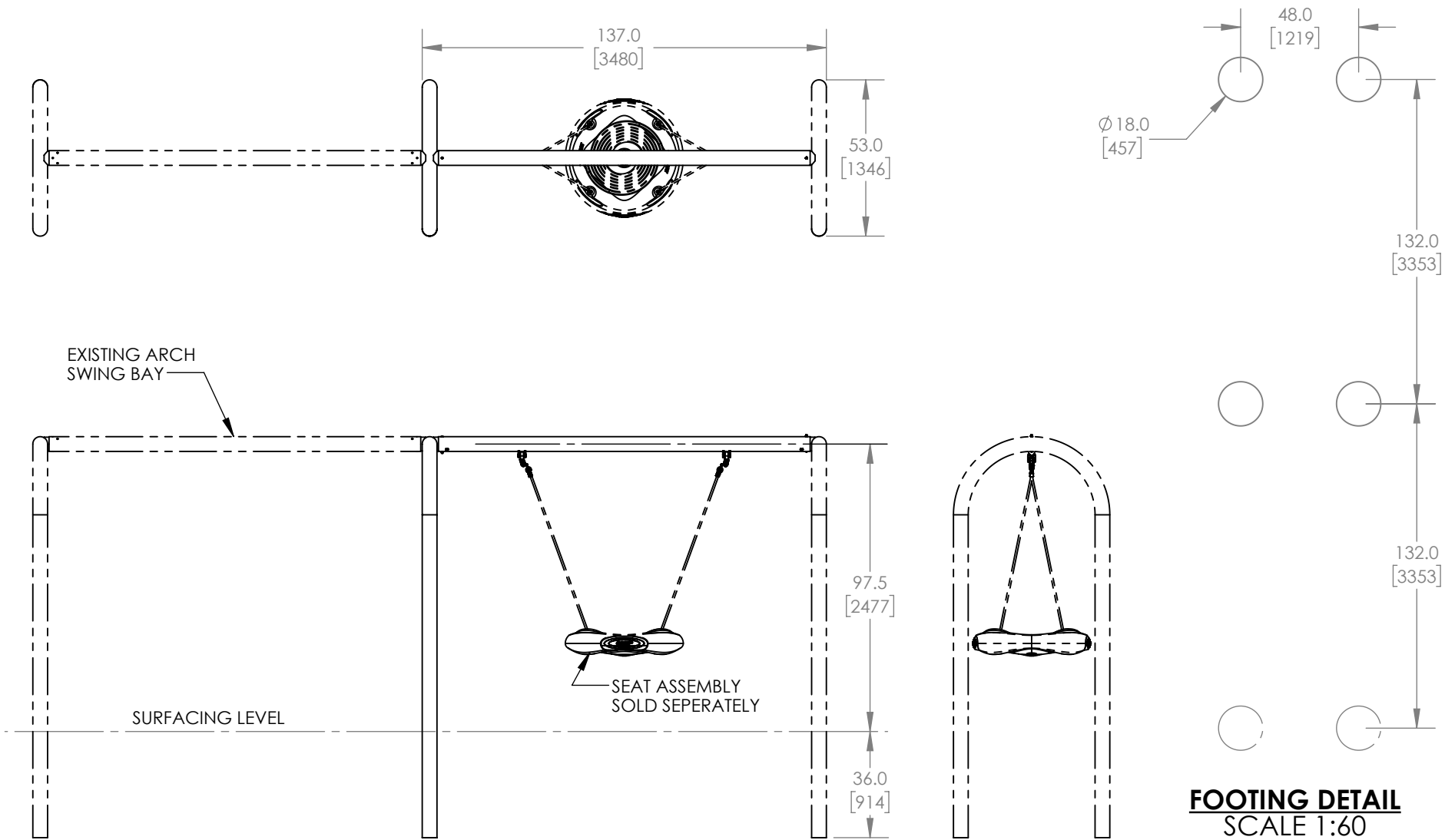
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.

TITLE: **5" ARCH SWING ADD-A-BAY FOR HOOPLA SEAT**

TOLERANCES:		NAME	DATE	PREVIOUS PART #	SHEET: 1 OF 2
FRACTIONAL ±1/16	ANGULAR ±1°	CREATED BY R. Seybert	9/19/2019		SCALE: 1:50
ONE PLACE DECIMAL ±.1	TWO PLACE DECIMAL ±.03	CHECKED BY NC		PROJECT # ZZZY262	REV: A
THREE PLACE DECIMAL ±.005	METRIC ±2MM	PROD. APPR. C. Shawley	09/20/2019	DRG No. ZZZYA262	
ROPE ±.25		WEIGHT: 342.80	LB		

Due Date	Qty	CYCLE TIME	PROG. TIME	CELL MAN HRS	MATERIAL USED	Notes
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DO NOT SCALE



ADD-A-BAY

FOOTING DETAIL
SCALE 1:60

		TITLE: 5" ARCH SWING ADD-A-BAY FOR HOOPLA SEAT				
		TOLERANCES: FRACTIONAL ±1/16 ANGULAR ±1° ONE PLACE DECIMAL ±.1 TWO PLACE DECIMAL ±.03 THREE PLACE DECIMAL ±.005 METRIC ±2MM ROPE ±.25				
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.		CREATED BY R. Seybert	NAME NC	DATE 9/19/2019	PREVIOUS PART #	SHEET: 2 OF 2
		CHECKED BY C. Shawley	PROD. APPR.	DRG No.	PROJECT # ZZY262	SCALE: 1:50 REV:
		WEIGHT: 342.80 LB		ZZYA262		

Due Date	Qty	CYCLE TIME	PROG. TIME	CELL MAN HRS	MATERIAL USED	Notes
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