

APPENDIX A
MANUFACTURER'S
PLAYGROUND EQUIPMENT
INSTALLATION INSTRUCTIONS

BRENTWOOD PARK
WHITETAIL RIDGE PARK
WINDOM WAY PARK

BRENTWOOD PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS



Assembly View (representative model)

Installation Instructions

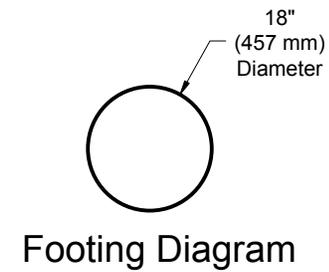
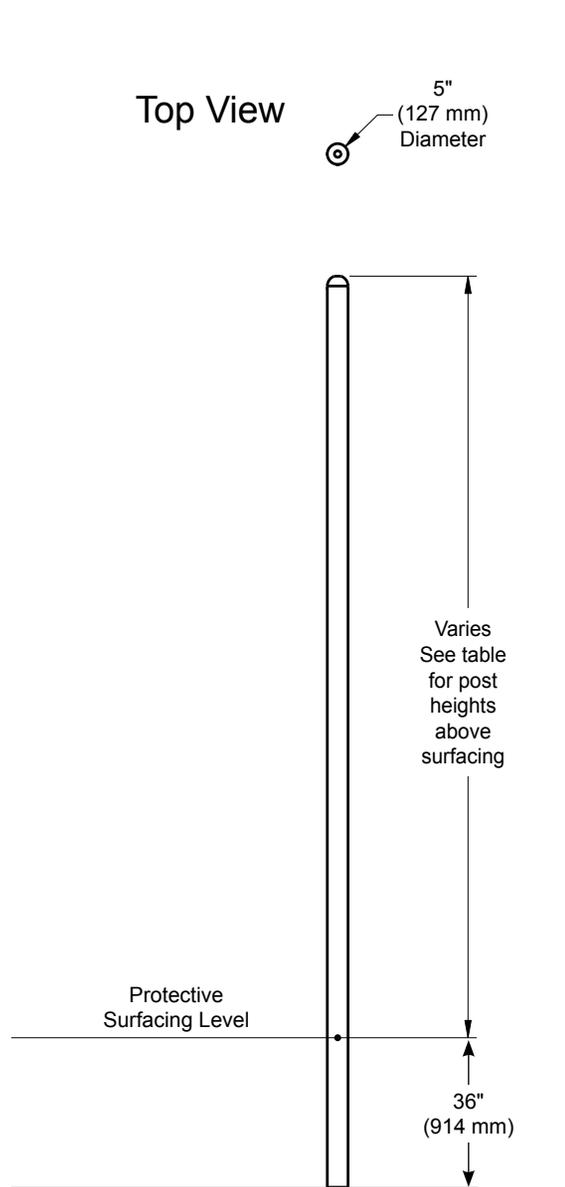
Playmakers® Models PM0006, PM0008, PM0016, PM0026, PM0036, PM0046, PM0056, PM0066, PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

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.

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

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

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

Final Details.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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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)

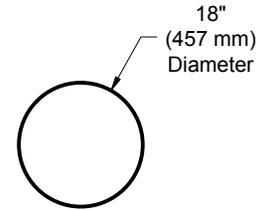
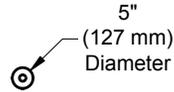
Installation Preparation

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)

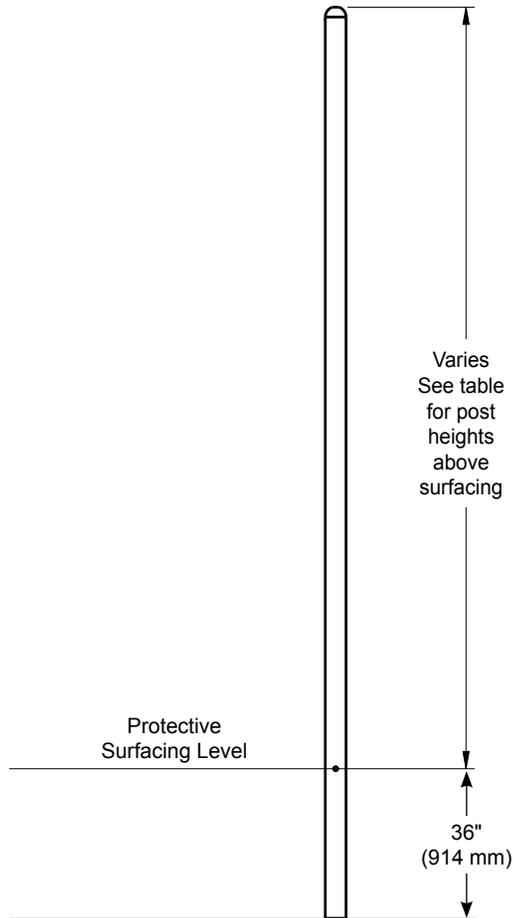


Installation Instructions

Top View



Footing Diagram



Elevation View

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

Step 2: Separate and identify all components and hardware.

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

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

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

Final Details.

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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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)

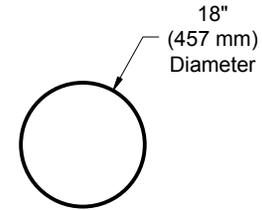
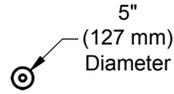
Installation Preparation

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)

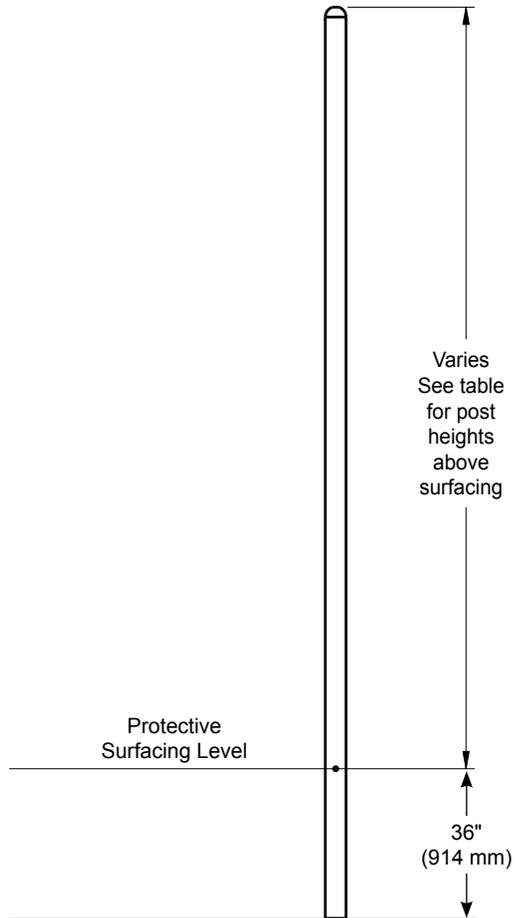


Installation Instructions

Top View



Footing Diagram



Elevation View

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

Step 2: Separate and identify all components and hardware.

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

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

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

Final Details.

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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Assembly View *(representative model)*

Installation Instructions

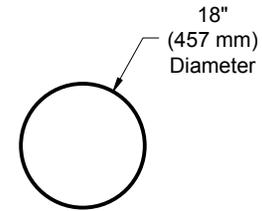
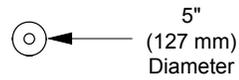
Playmakers[®] Models PM0008GZ,
PM0036GZ, PM0056GZ, & PM0066GZ
GroundZero[®] Steel Support Post w/ Cap
108 in. (2743 mm), 144 in. (3658 mm),
168 in. (4267 mm), & 180 in. (4623 mm)

Installation Preparation

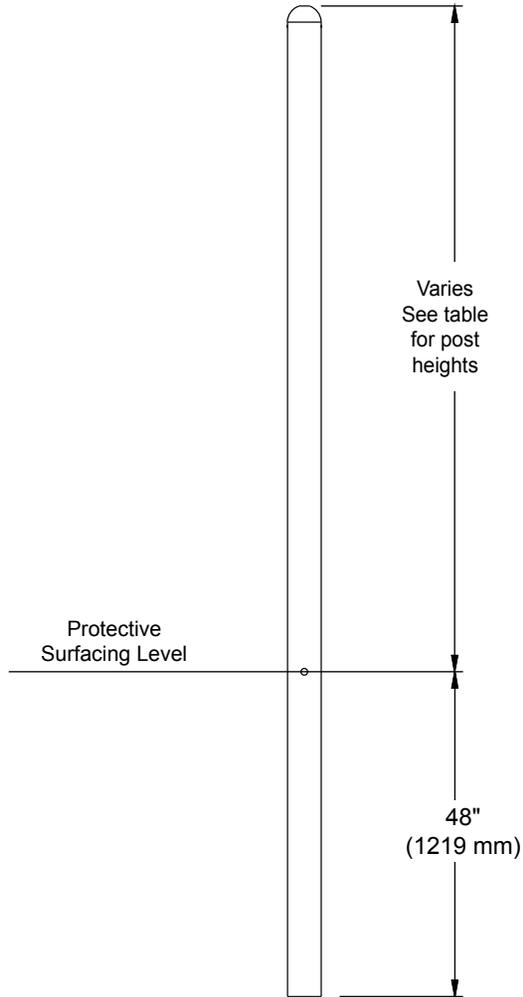
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.18 cubic yard (0,14 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0008GZ	108" (2743 mm)	60" (1524 mm)
ZZPM0036GZ	144" (3658 mm)	96" (2438 mm)
ZZPM0056GZ	168" (4267 mm)	120" (3048 mm)
ZZPM0066GZ	180" (4623 mm)	132" (3353 mm)



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

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

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

Final Details.

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



PM0008GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5026	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 48"	1

PM0036GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5027	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 48"	1

PM0056GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP0286	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 48"	1

PM0066GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5073	POST - 5.00" O.D. x 180.00" STEEL w/ CAP & LBL AT 48"	1



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Assembly View *(representative model)*

Installation Instructions

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

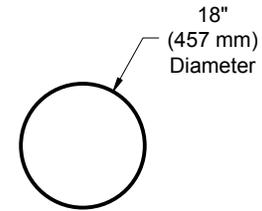
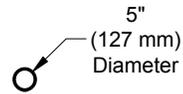
Installation Preparation

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

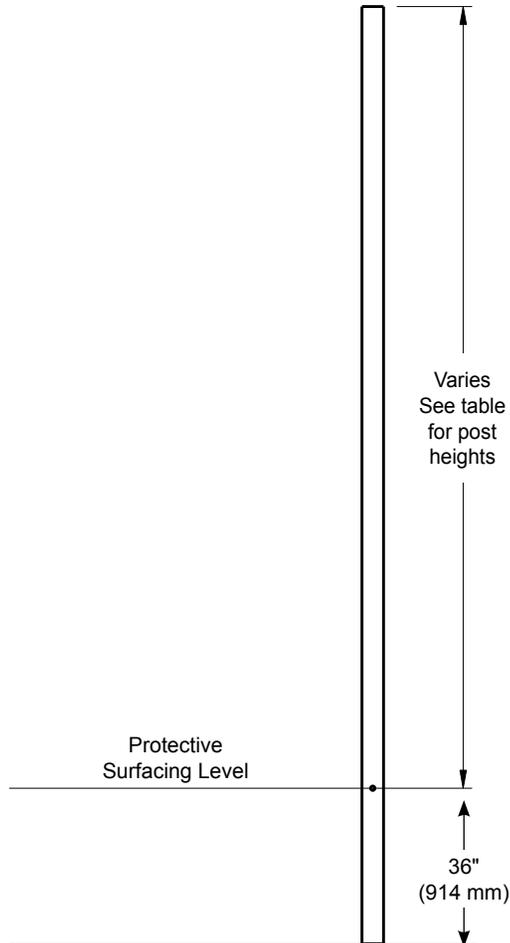


Installation Instructions

Top View



Footing Diagram



Elevation View

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

Installation Instructions

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

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

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

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

Final Details.

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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PLAYMAKERS®
MODEL PM0149
STEP AROUND



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Weight: 8.4 Lbs. (3.8 Kilos)
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 2 - 12 years - (See Elevation View)

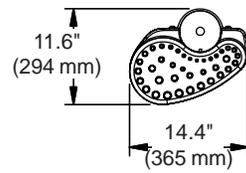
Torque Specification:

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

Maintenance . . .

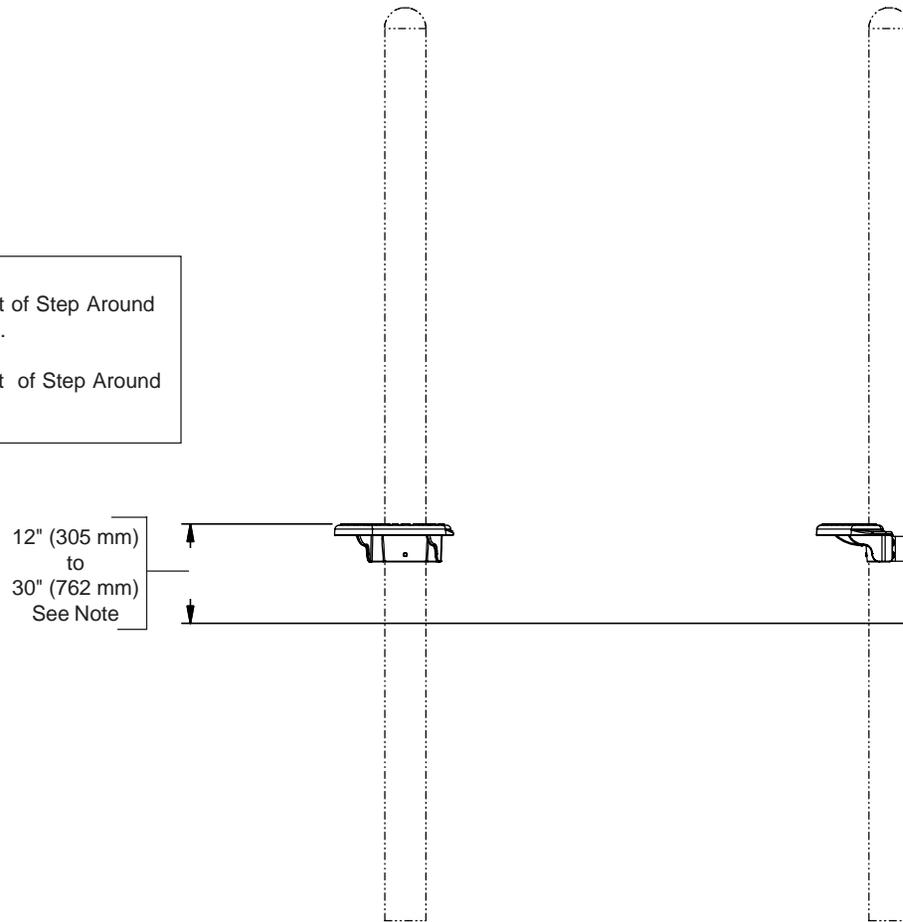
- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners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

INSTALLATION INSTRUCTIONS



Top View

Important Note:
Ages 2-12 - maximum height of Step Around is 20 in. (508 mm).
Ages 5-12 - maximum height of Step Around is 30 in. (762 mm).



Elevation View

INSTALLATION INSTRUCTIONS

INSTALLATION

✓ Notes Before You Begin:

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

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (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 of the Step Around by referring to the master layout drawing.

Attach the Step Around to the support post

__Step 4: Attach the Step Around to the support post. See **Detail A**. Select the Step Around, a wide steel clamp band, (4) four 3/8" x 1" button head bolts, and (4) four 3/8" flat washers. Sandwich the post between the Step Around and the wide clamp band and align the holes. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, the clamp band, and thread into the Step Around. Start all bolts before tightening any, and then only snug tighten to allow for height and position adjustments.

__Step 5: Based on the intended user group move the Step Around to the appropriate height and orientation. See **Elevation View** and **Important Note** below. Tighten the bolts, drawing the clamp band up evenly. *The Step Around may be mounted at a lower height but may not exceed the maximum for the intended user group.*

Important Note:

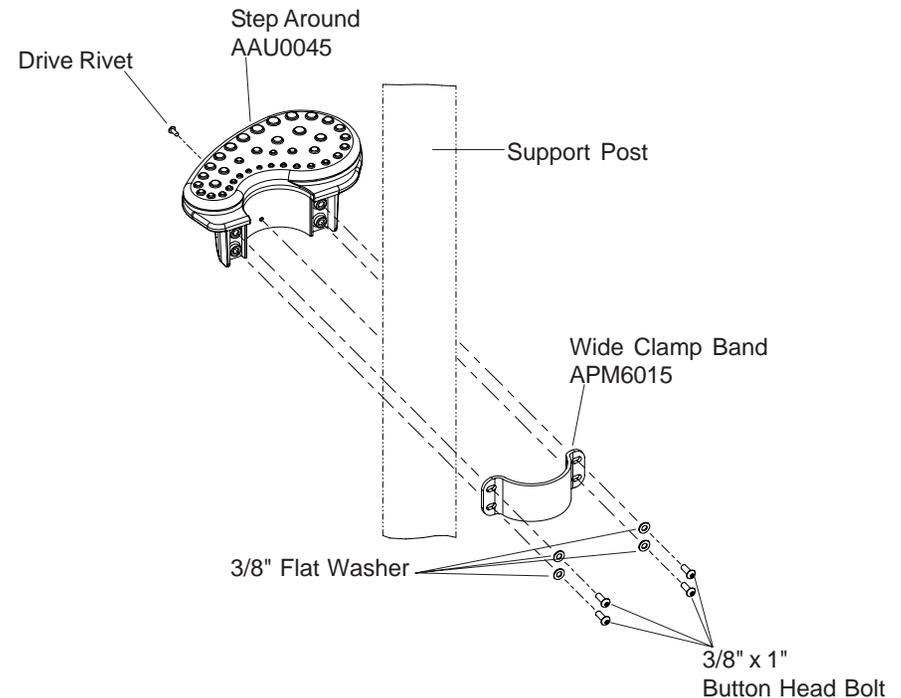
For a user group ages 2-12 the maximum height of the Step Around is 20 in. (508 mm).
For a user group ages 5-12 the maximum height of the Step Around is 30 in. (762 mm).

Final Details.

__Step 6: Plumb and level the entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.

__Step 7: Install a drive rivet. See **Detail A**. After the equipment assembly is complete, install a drive rivet in the Step Around casting to permanently secure it to the support post. Using a 1/4" drill bit, using the indent in the casting as a guide, drill into the support post. Insert the drive rivet into hole until the head of the rivet is against the surface of the casting. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

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



Detail A

INSTALLATION INSTRUCTIONS

BILL OF MATERIAL

PM - STEP AROUND

PART NO.	DESCRIPTION	QTY.
AAU0045	CASTING - 5" STEP AROUND	1
APM6015	CLAMP - 5" DIA. x 3" WIDE STEEL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4 x 11/16 DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4

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Assembly View (representative model)

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

Installation Instructions

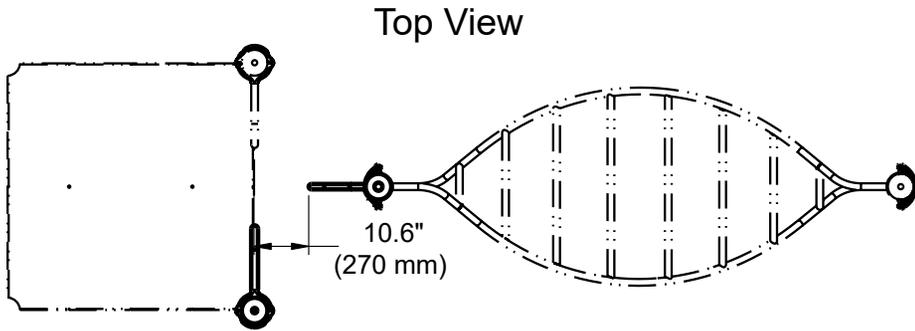
Playmakers® Model PM0296 and PM0297
12" (305 mm) to 24" (610 mm) Deck Access
and 36" (914 mm) to 48" (1219 mm) Deck Access
GroundZero® Post w/ Ladder

Installation Preparation

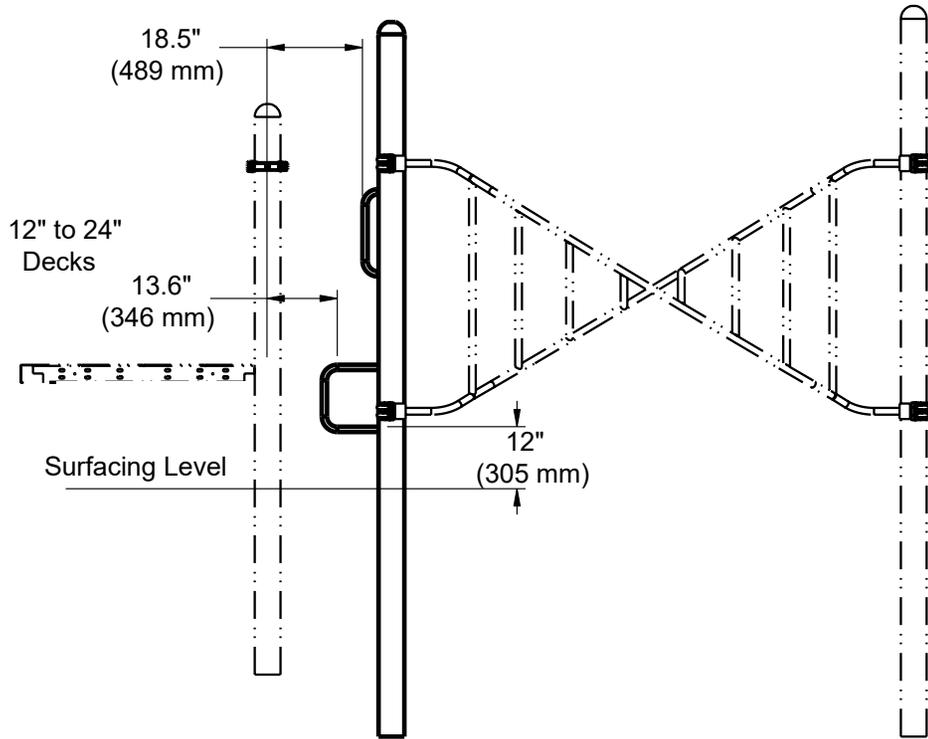
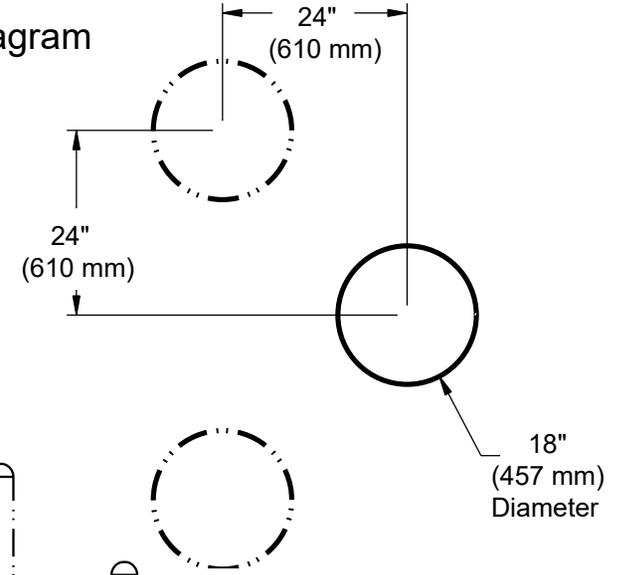
Recommended Crew: One (1) adult
Installation Time: 0.5 man-hour
Weight: (refer to table)
Concrete Required: 0.18 cubic yard (0,14 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

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

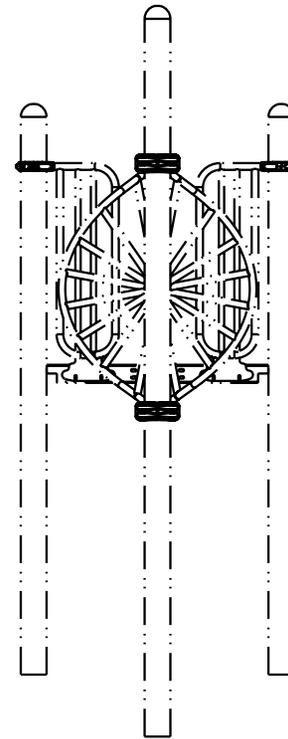
Installation Instructions



Footing Diagram

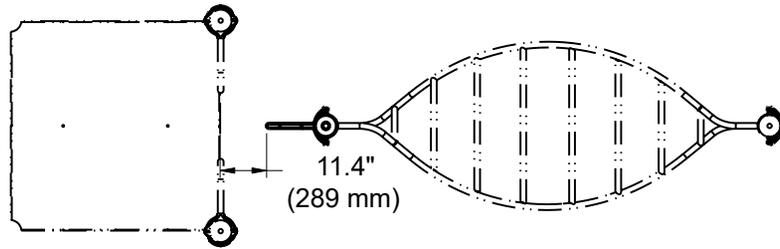


**Elevation Views
ZZPM0296**

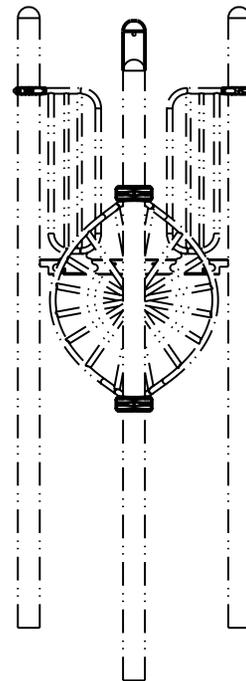
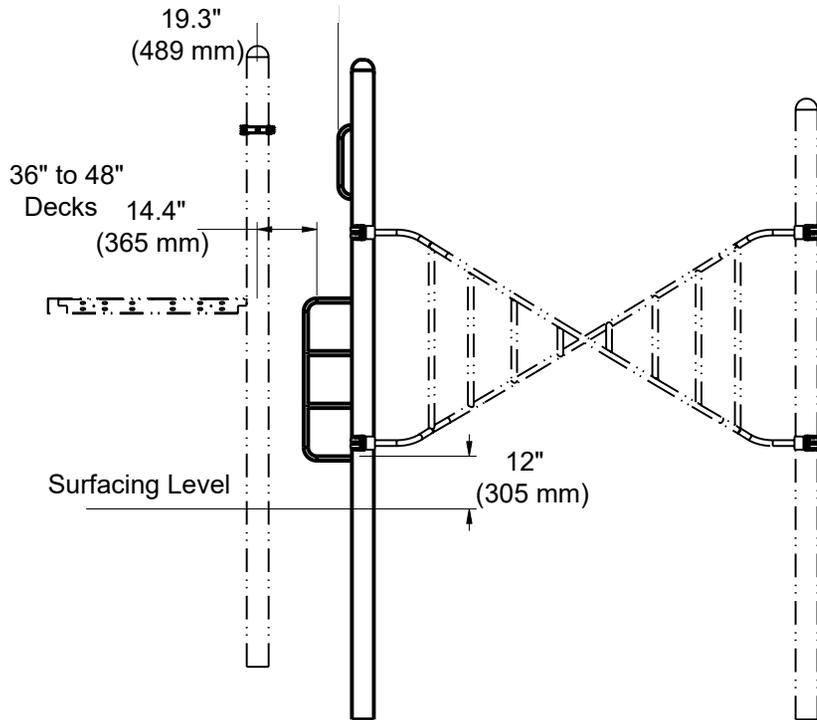
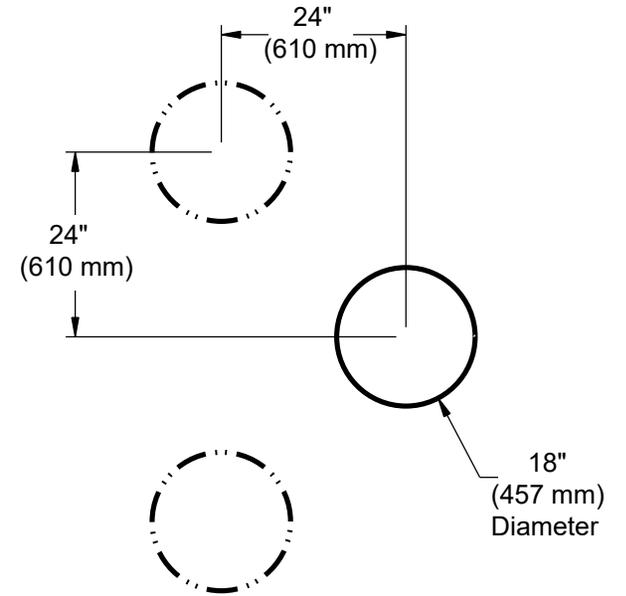


Installation Instructions

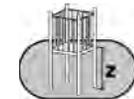
Top View



Footing Diagram



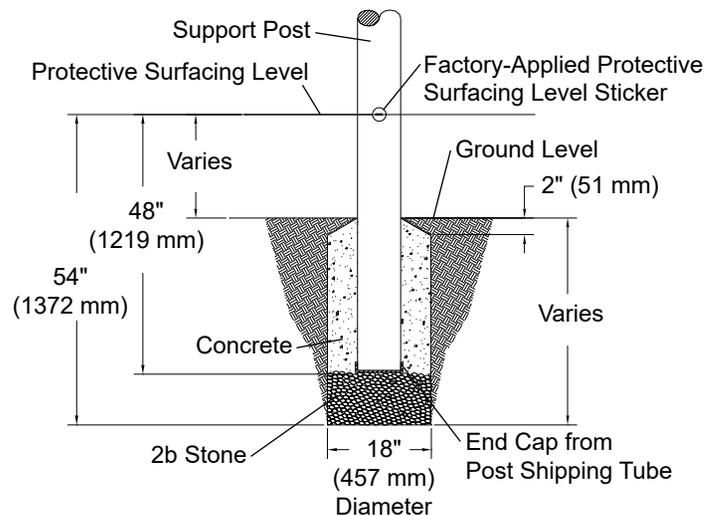
Elevation Views
ZZPM0297



48" (1219 mm)



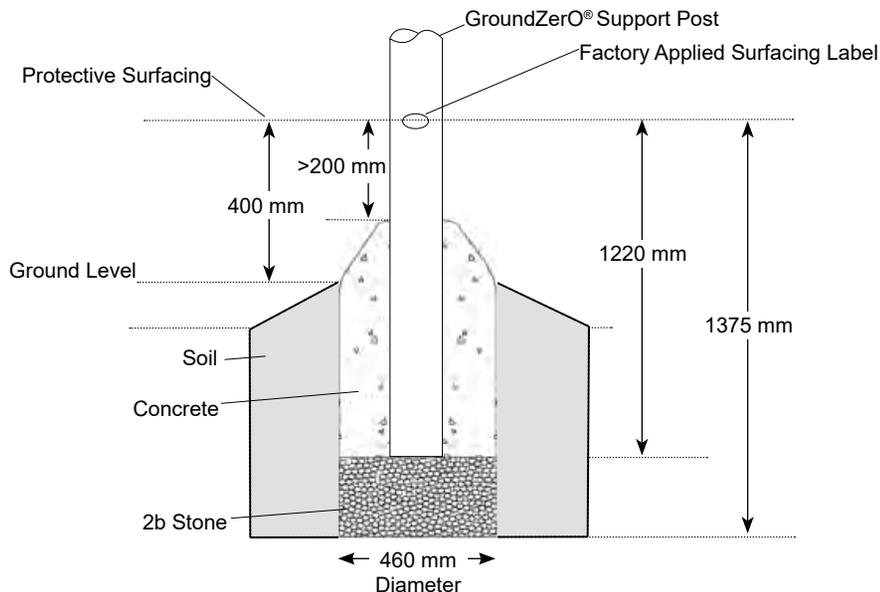
Installation Instructions



GroundZero® Support Post Footing Detail ASTM/CSA

FOOTING NOTES

- Support post footing depth equals 54 in. (1372 mm) less the depth of the protective surfacing material. The post is designed to have 36" (914 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 42 in. (1067 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail GroundZero® Support Post (EN)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description.

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Footings Details** on **page 4** of this document.

Place the support post in the prepared hole.

Step 4: Place the support post into the prepared hole. See **Detail A** and **Elevation View**. Select the support post. Place the post into the hole as shown in the **Elevation View**.

Important Note: Align the ladder to the deck as shown in the **Elevation View**.

Final Details.

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



Step 3



Detail A
Step 4



Step 5

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

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

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

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


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



ZZPM0616
Square Deck

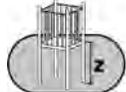


ZZPM0629
Long Deck

Assembly View

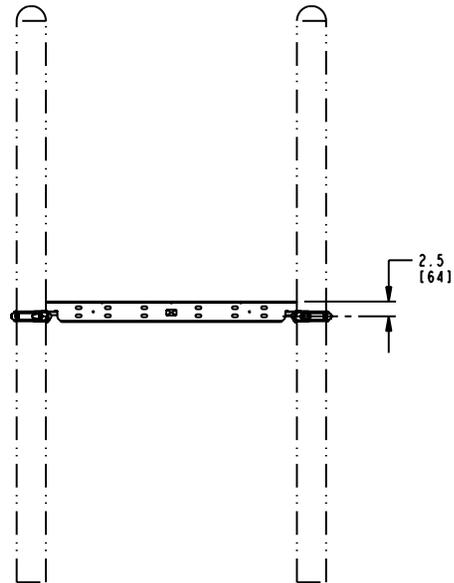
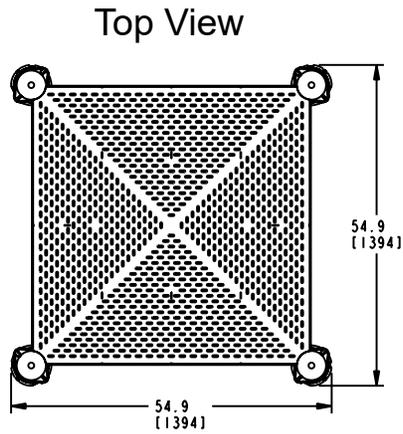
Installation Preparation

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

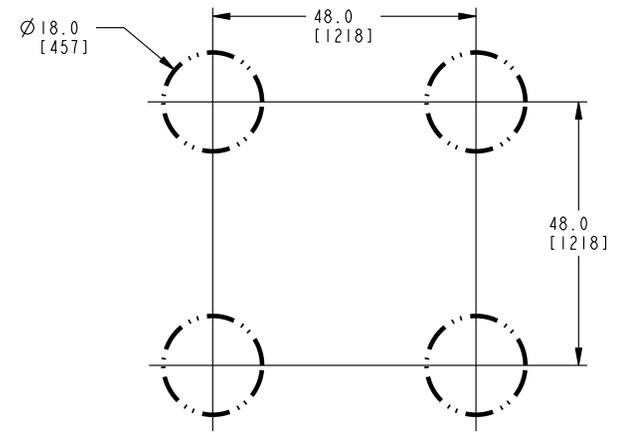
ICON KEY			
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

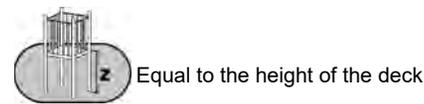
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

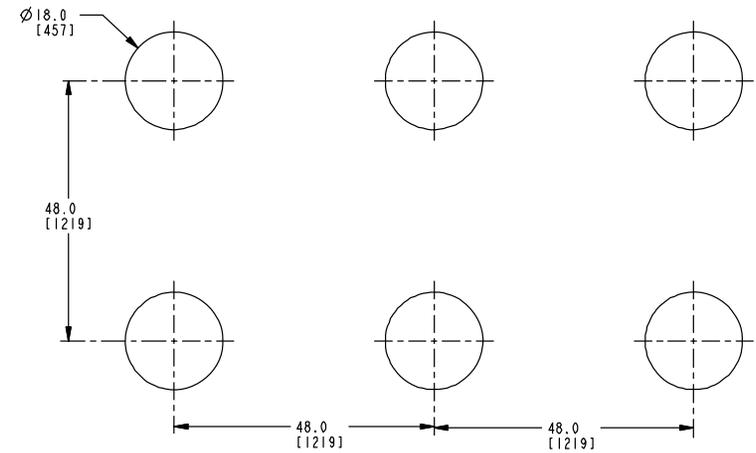
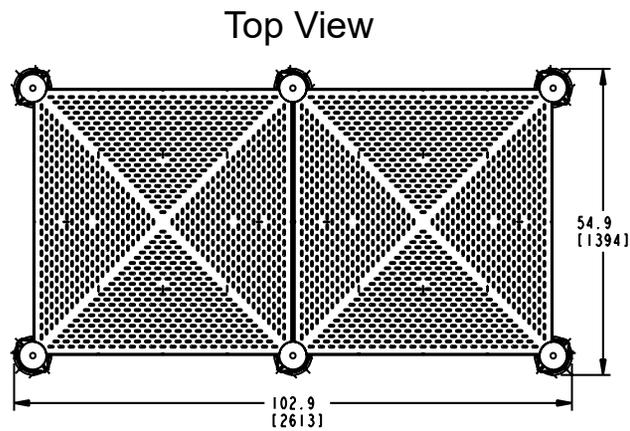


Footing Diagram

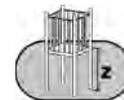
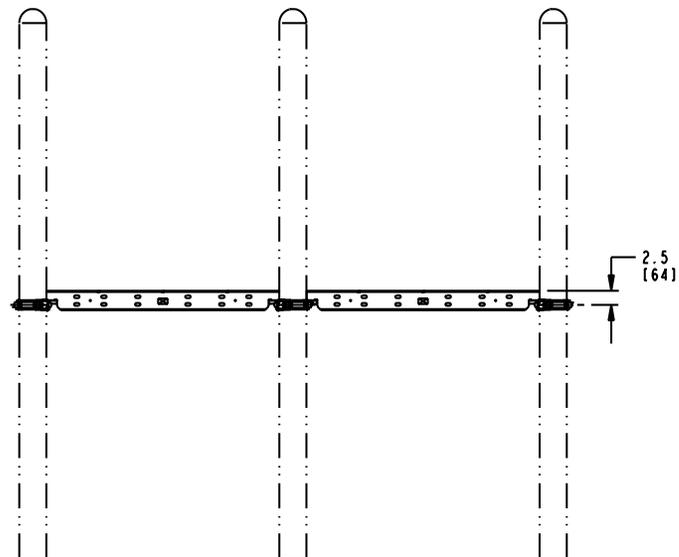


Installation Instructions

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



Footing Diagram

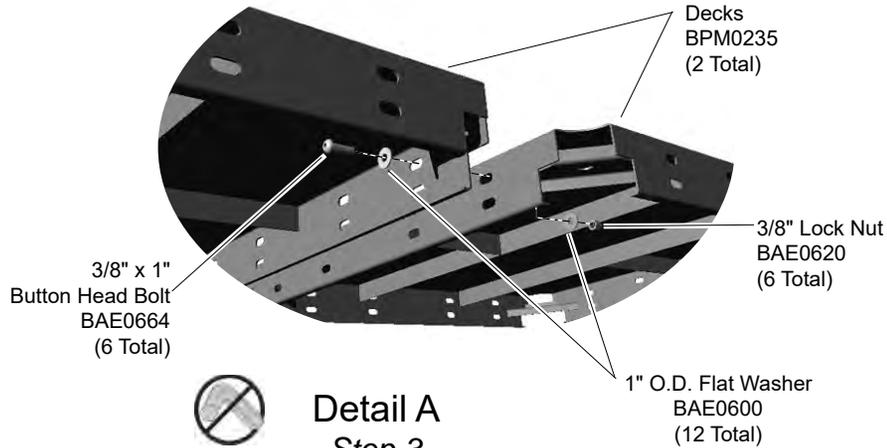


Equal to the height of the deck

Elevation View
Model PM0629

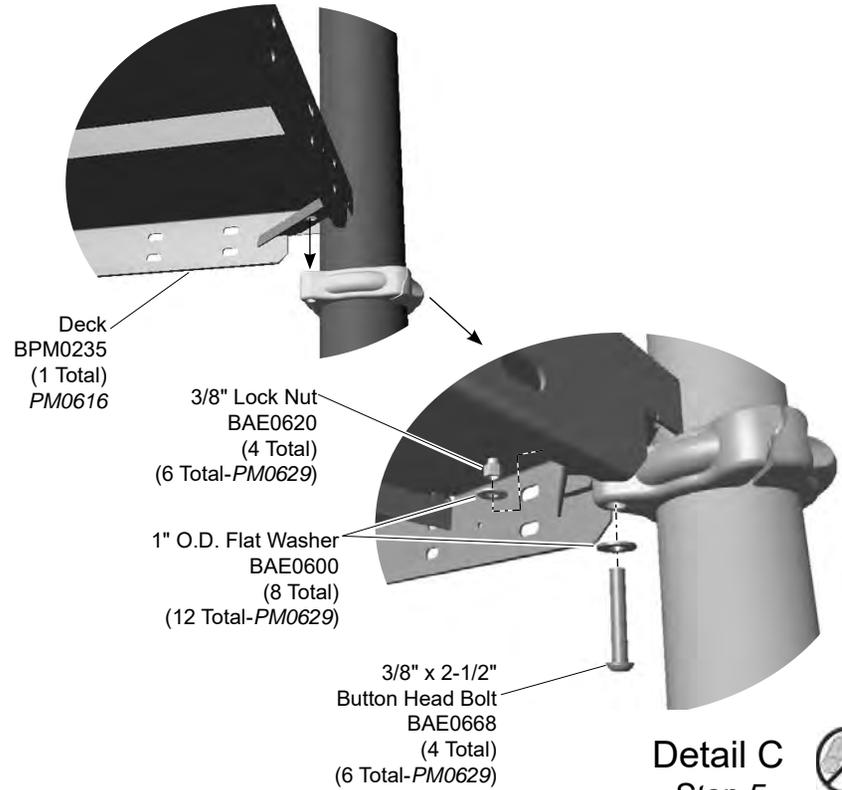
Installation Instructions

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



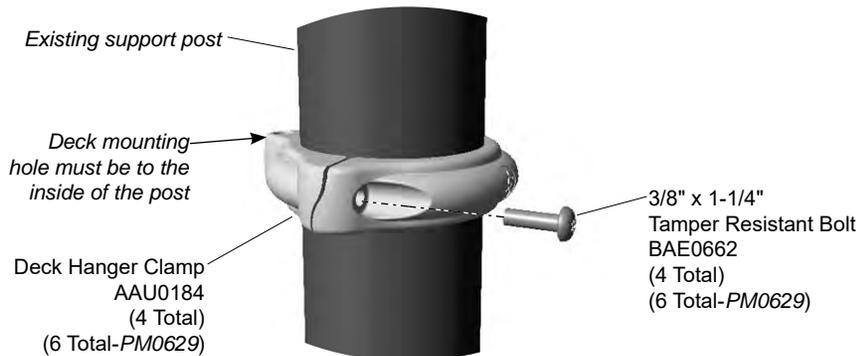
Detail A Step 3

(Model PM0629 Only)
Attach the two decks together.



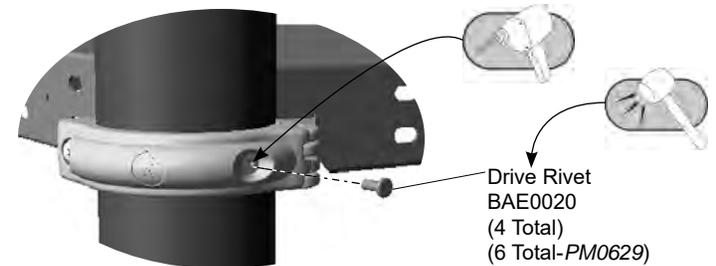
Detail C Step 5

Attach the decks to the clamps.



Detail B Step 4

Attach the deck clamps to the support posts.



Detail D Step 7

Secure the clamps to the support posts.

Installation Instructions

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

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
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



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Installation Instructions
Playmakers[®] PM0617, and PM0639
Triangular and 45 Degree Tri-Deck
Coated Perforated Decks



ZZPM0617
Triangular Deck

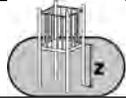
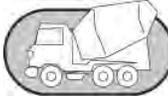


ZZPM0639
45 Degree Tri-Deck

Assembly View

Installation Preparation

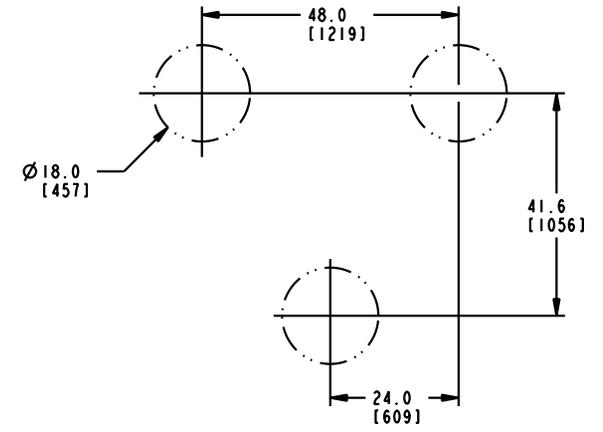
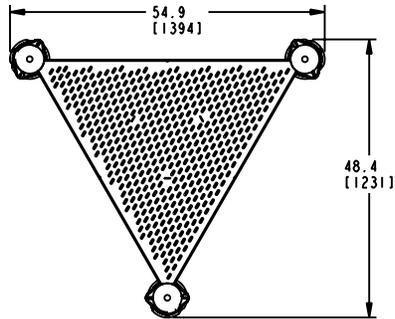
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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

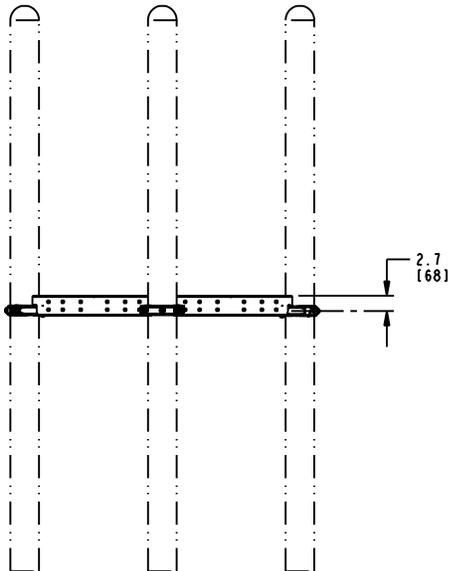
Installation Instructions

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

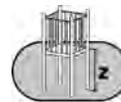
Top View



Footing Diagram



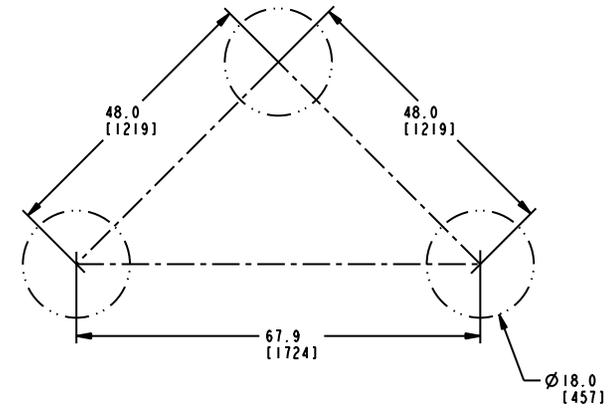
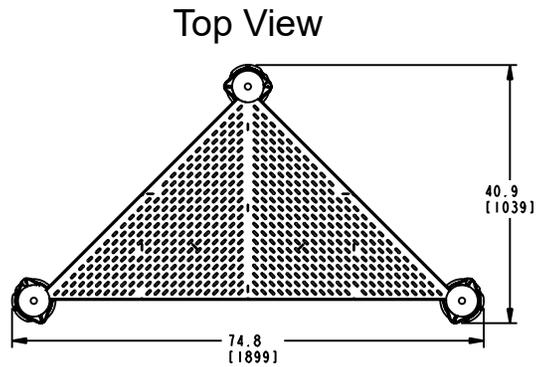
Elevation View
Model PM0617



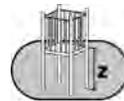
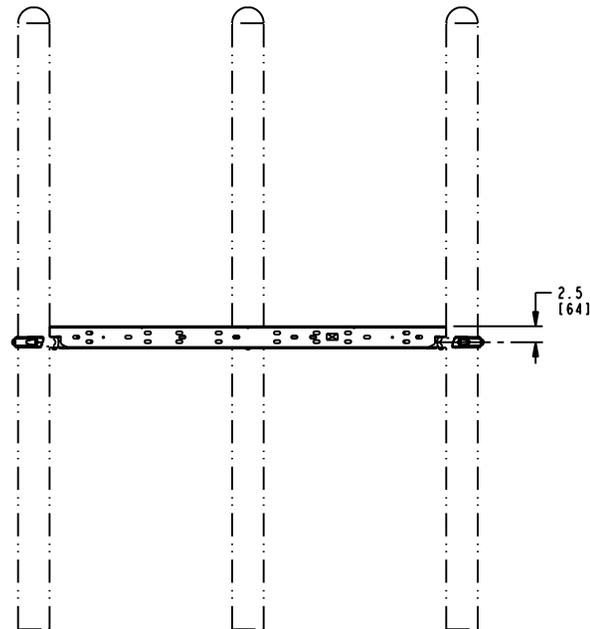
Equal to the height of the deck

Installation Instructions

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



Footing Diagram

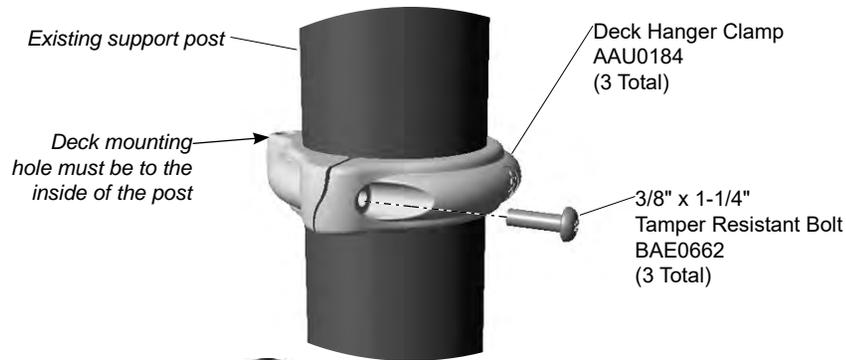


Equal to the height of the deck

Elevation View
Model PM0639

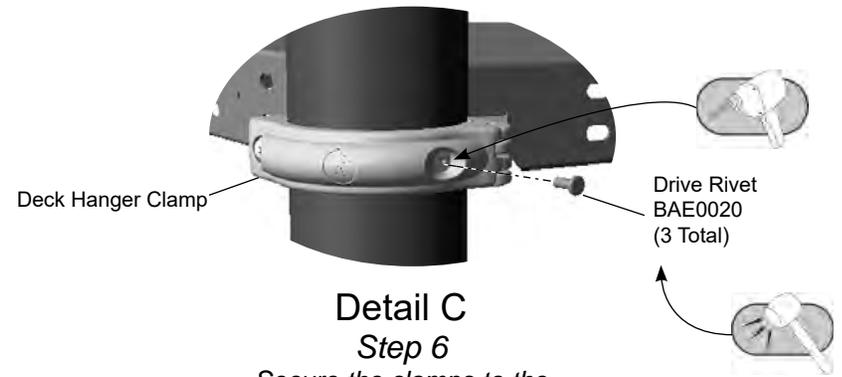
Installation Instructions

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



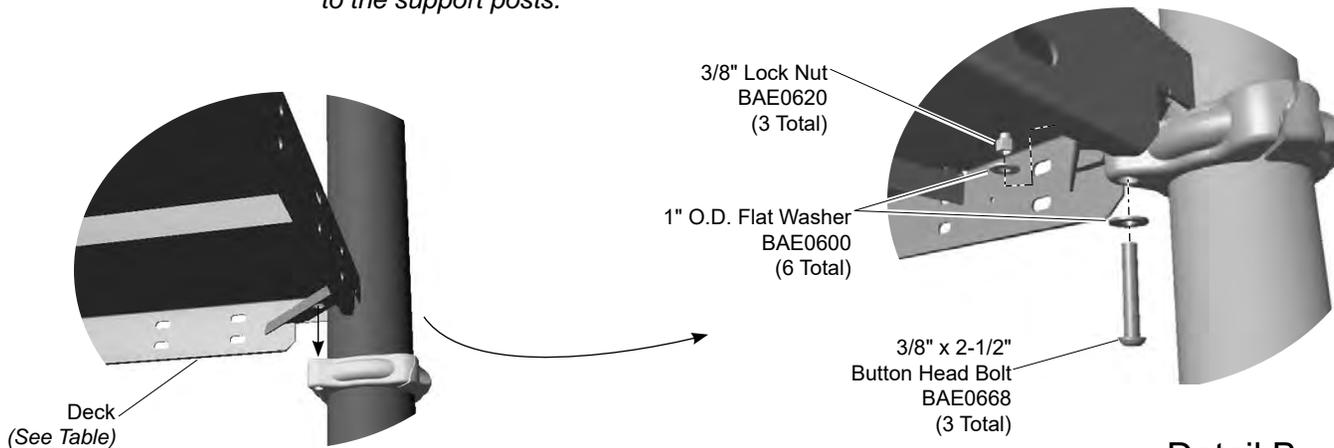
Detail A Step 3

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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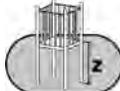
Assembly View (representative model)

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

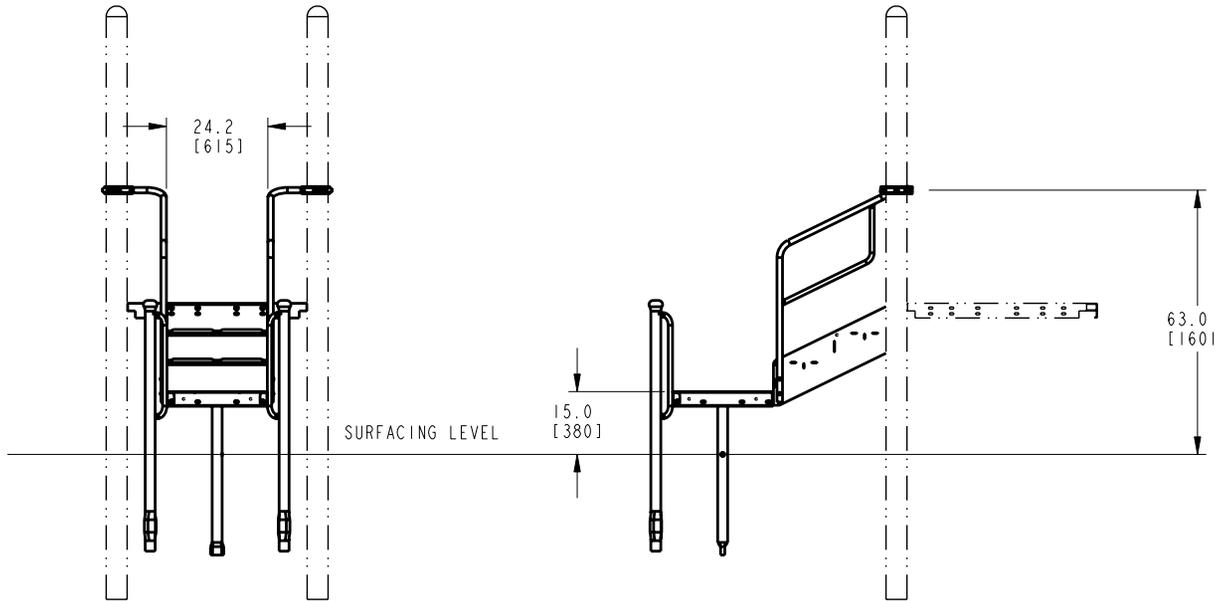
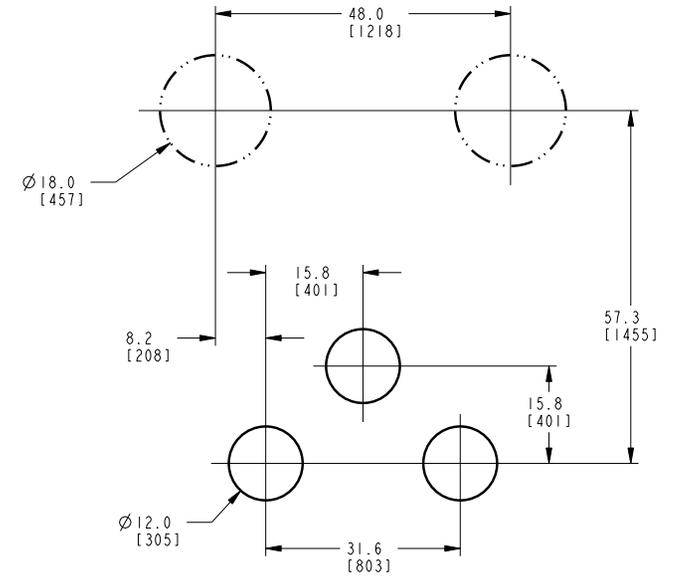
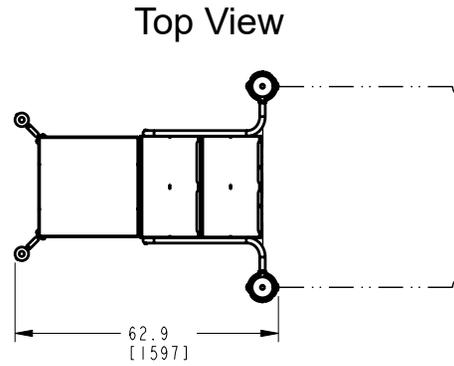
Installation Preparation

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

Installation Instructions

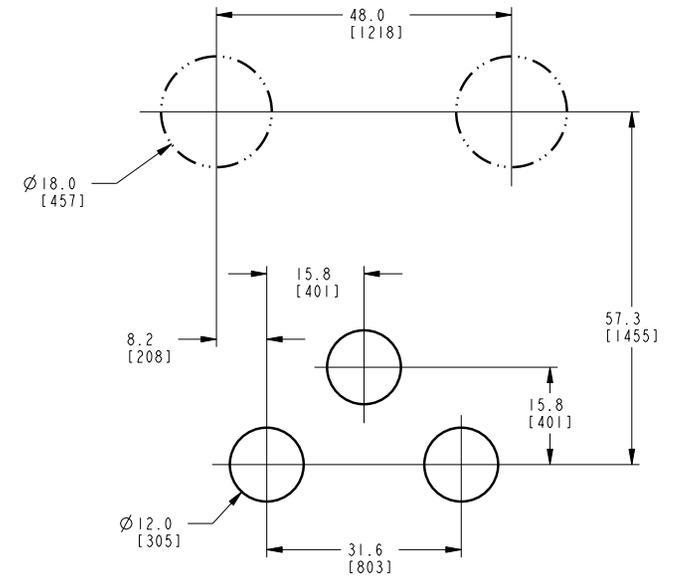
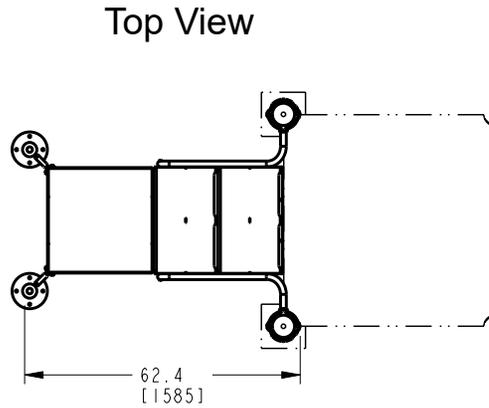
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



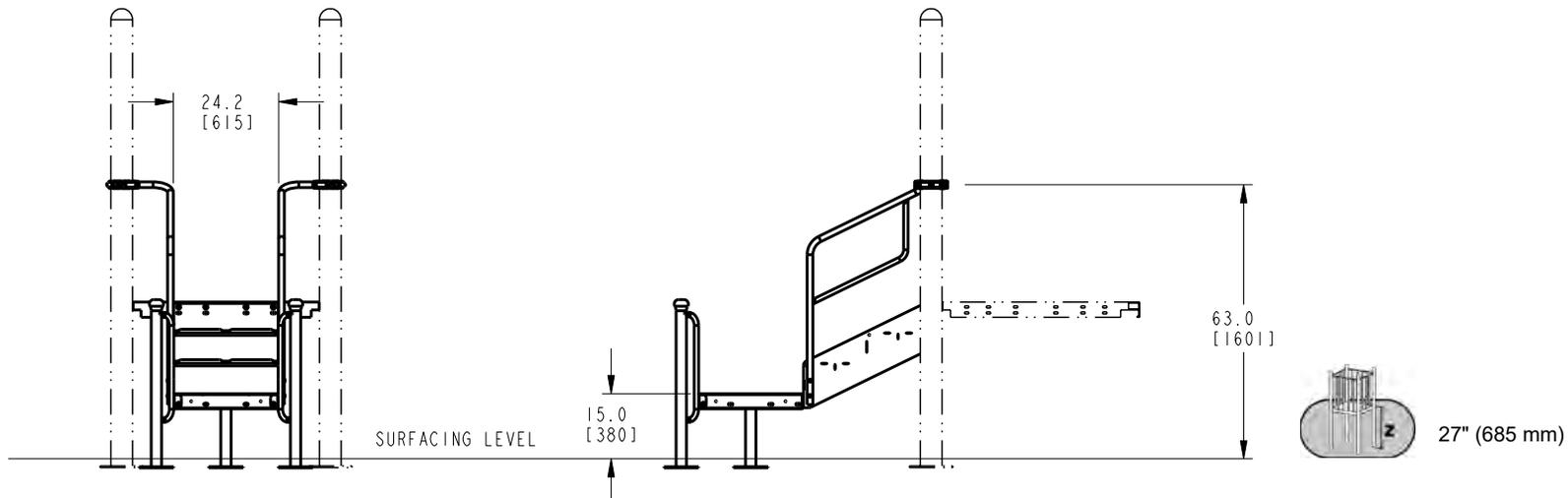
Elevation View
PM2006

Installation Instructions

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



Footings Diagram

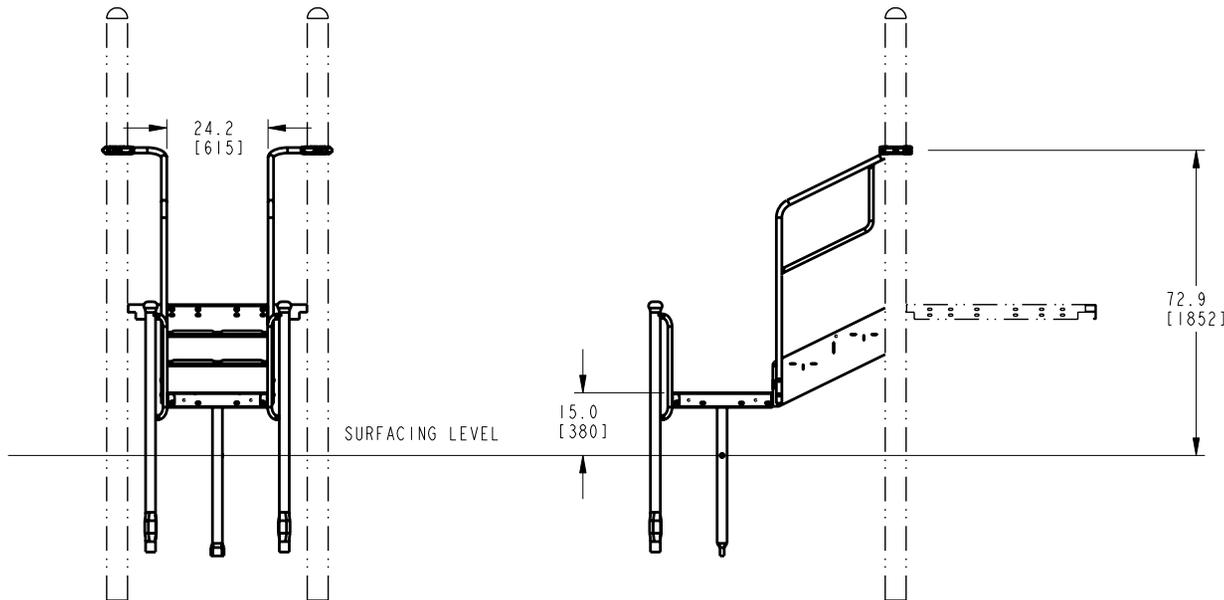
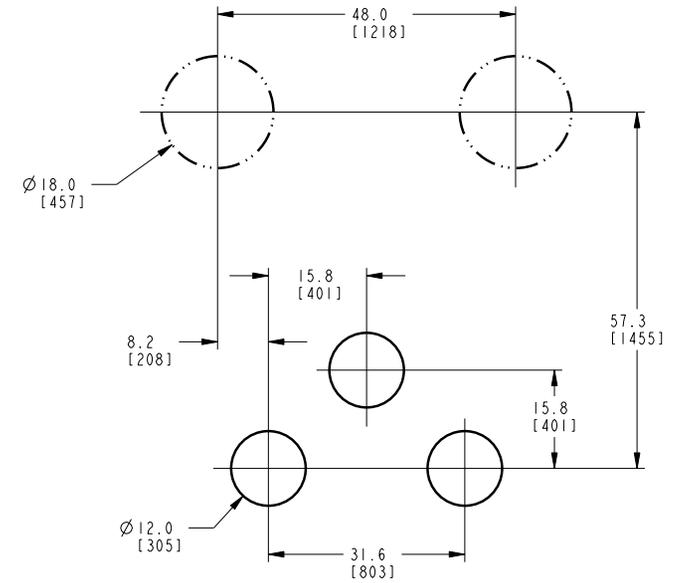
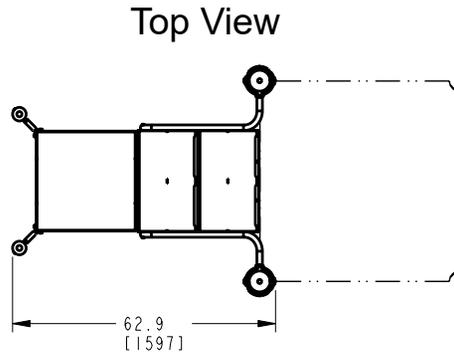


Elevation View
PM2006S



Installation Instructions

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

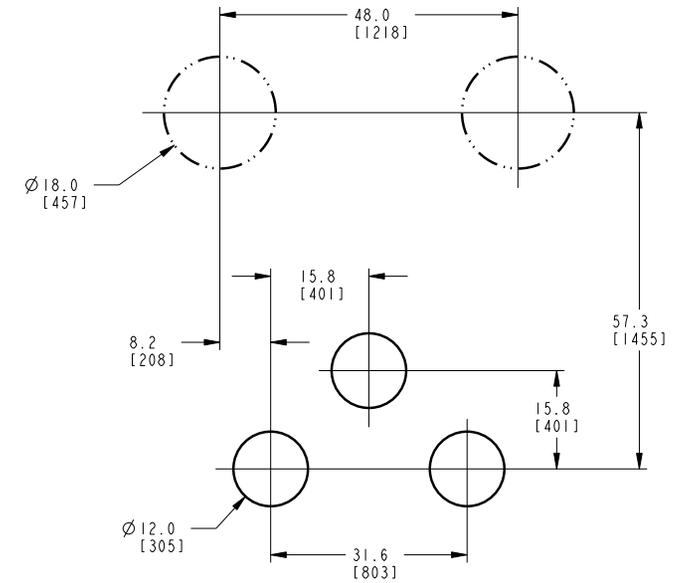
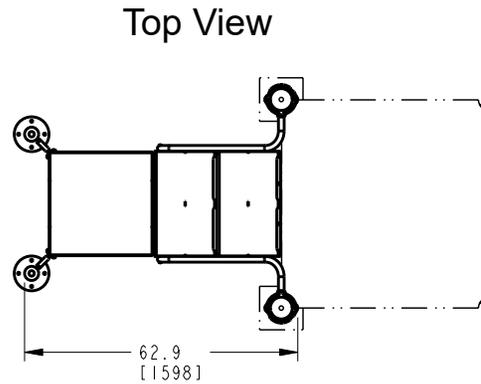


Elevation Views
PM2007

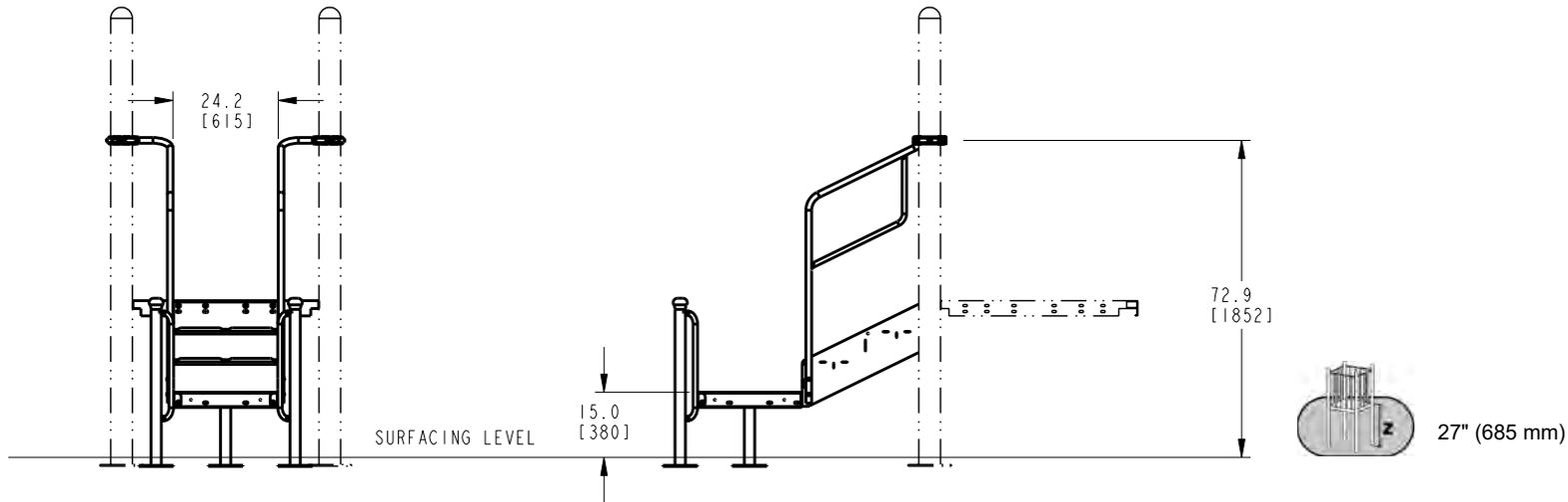


Installation Instructions

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



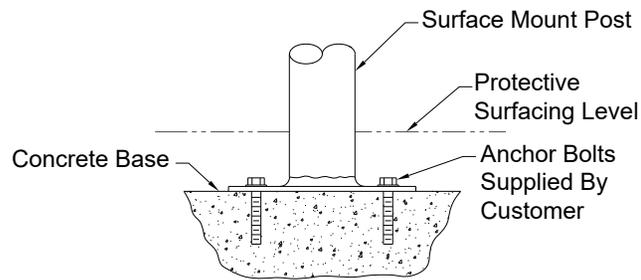
Footing Diagram



Elevation Views
PM2007S



Installation Instructions



Surface Mount Footing Detail

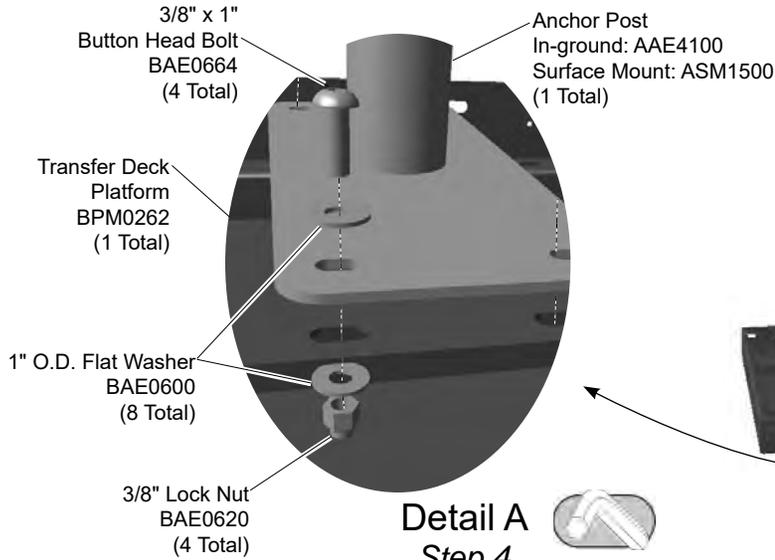
FOOTING NOTES

- 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.

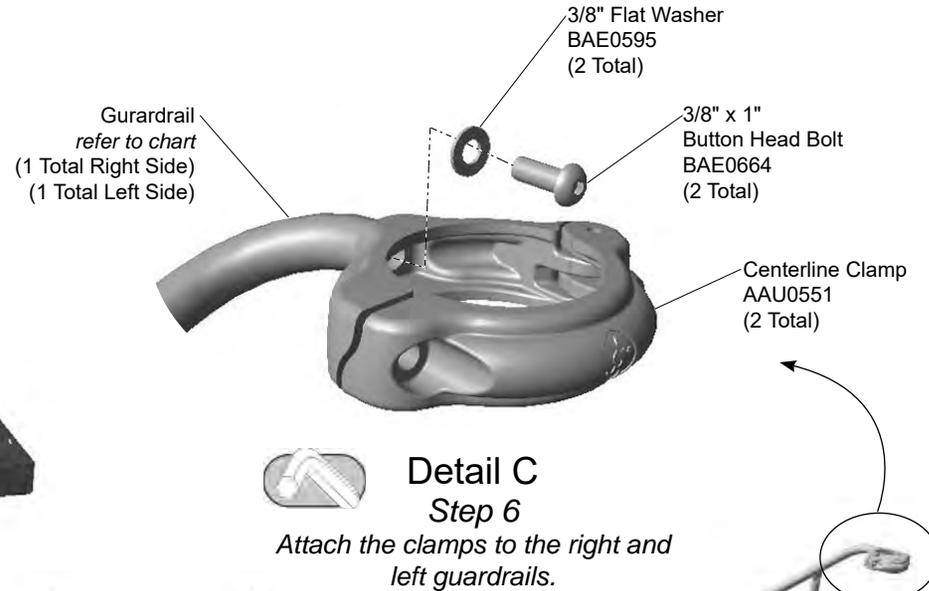
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

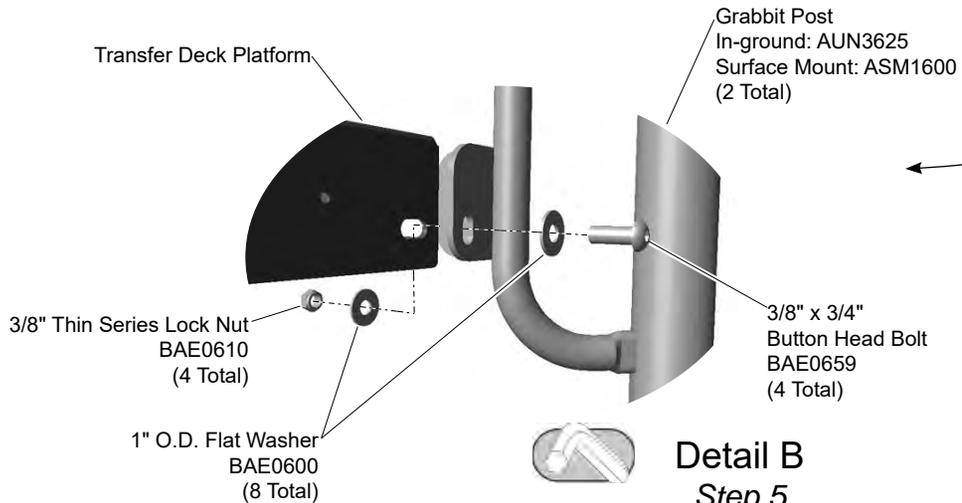
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 11.



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



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

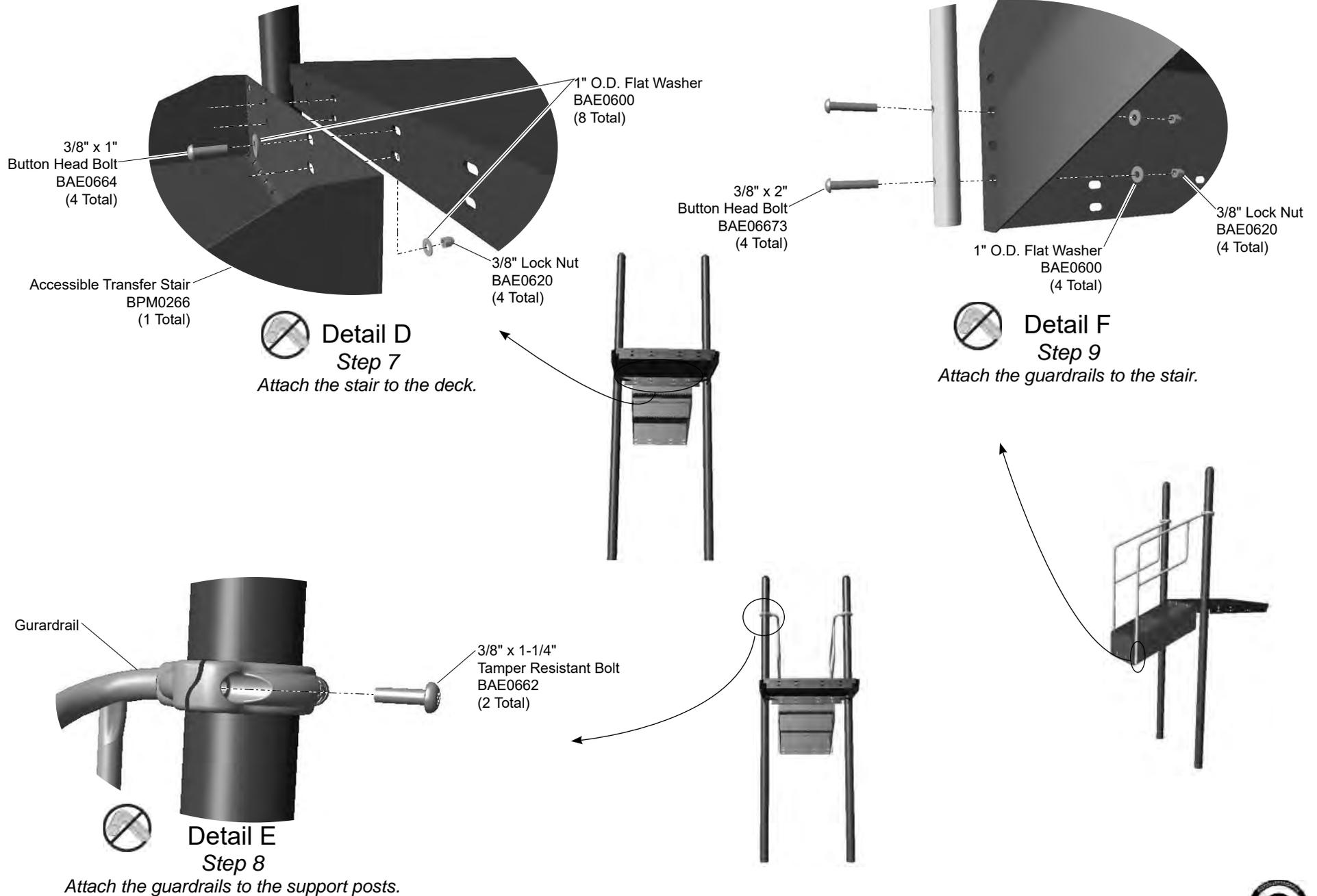


Detail B
Step 5
Attach the grabbit post to the platform.

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



Installation Instructions

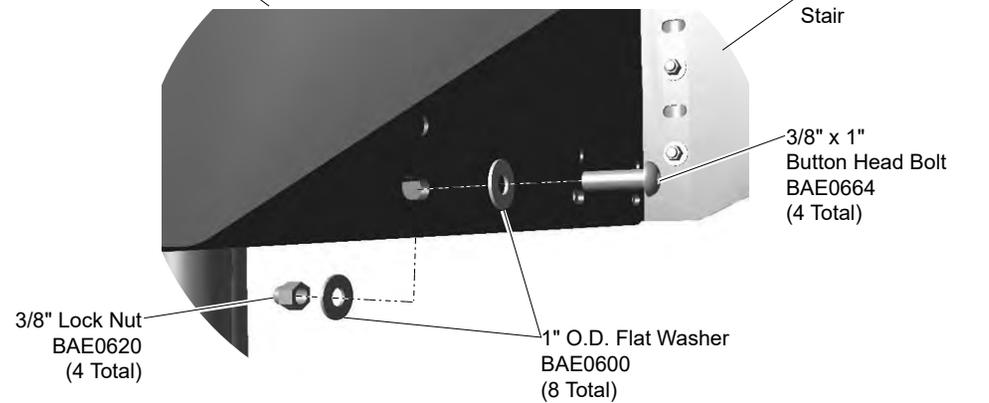


Installation Instructions



Transfer Deck

Accessible Transfer Stair



3/8" x 1"
Button Head Bolt
BAE0664
(4 Total)

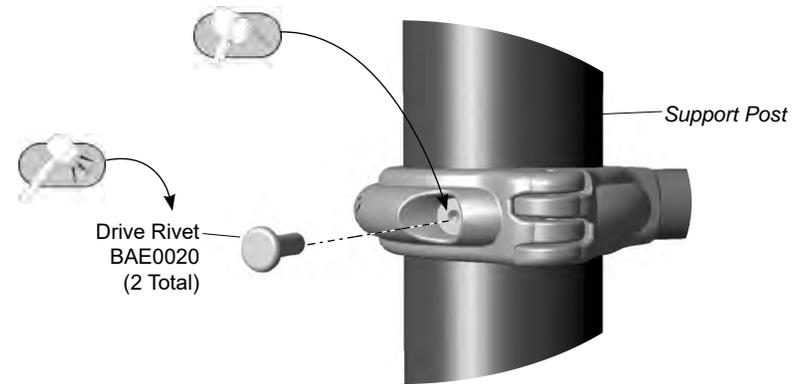
3/8" Lock Nut
BAE0620
(4 Total)

1" O.D. Flat Washer
BAE0600
(8 Total)



Detail G
Step 10

Attach transfer deck assembly to the stair.



Support Post

Drive Rivet
BAE0020
(2 Total)

Detail H
Step 12

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, 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 grabbits to transfer deck.

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

Attach the clamps to the guardrails.

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

Attach the stairs to existing support deck.

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

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

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

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

Attach guardrails to the support posts.

Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. 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.



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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	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

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

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

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

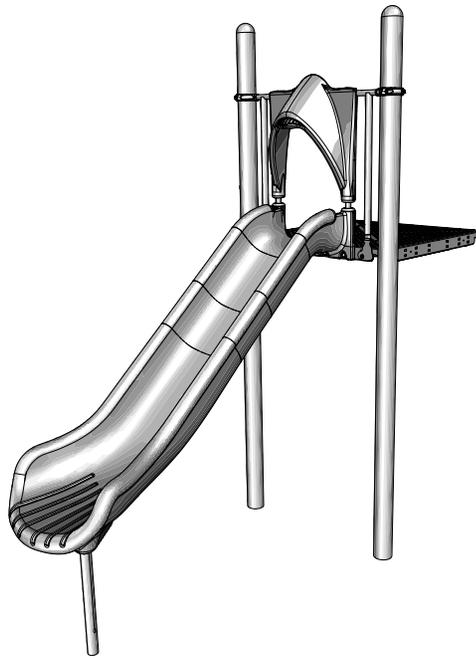
ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

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



Installation Instructions Playmakers[®]

Models PM2658, PM2696, PM3126-PM3127
36"-72" (914-1829 mm) Glide Slides

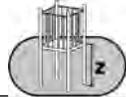
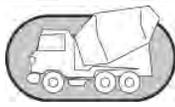
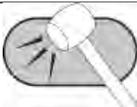


Assembly View (representative model)

Model	Deck Height
PM3127	36" (915 mm)
PM3126	48" (1220 mm)
PM2658	60" (1525 mm)
PM2696	72" (1830 mm)

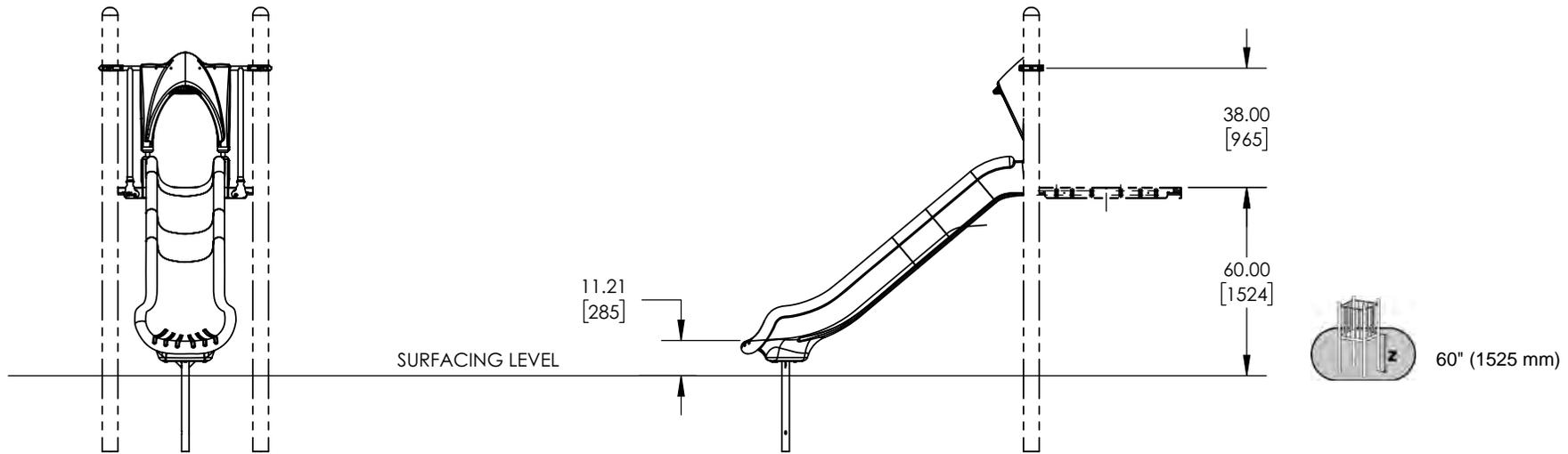
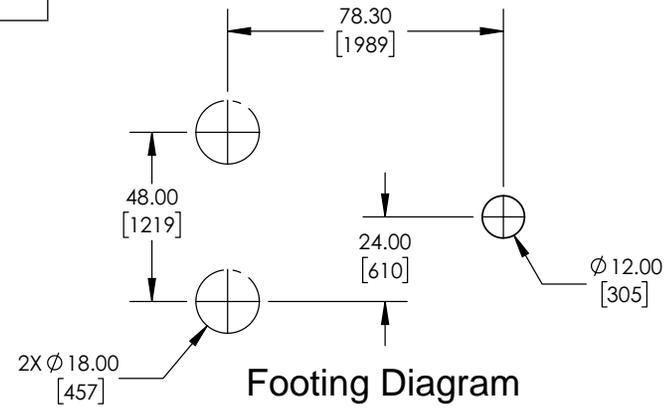
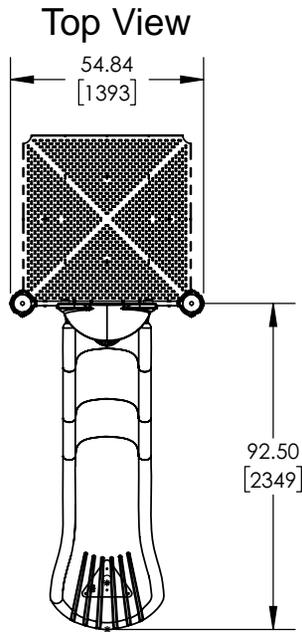
Installation Preparation

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 (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]



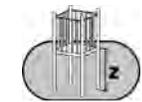
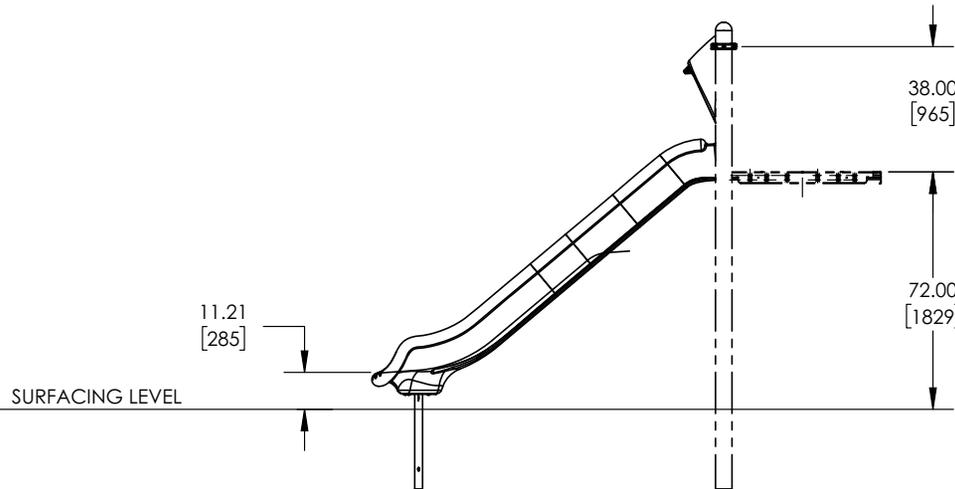
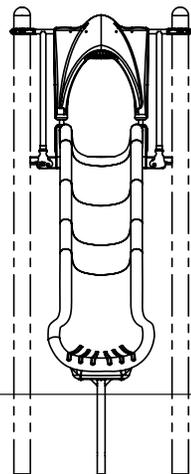
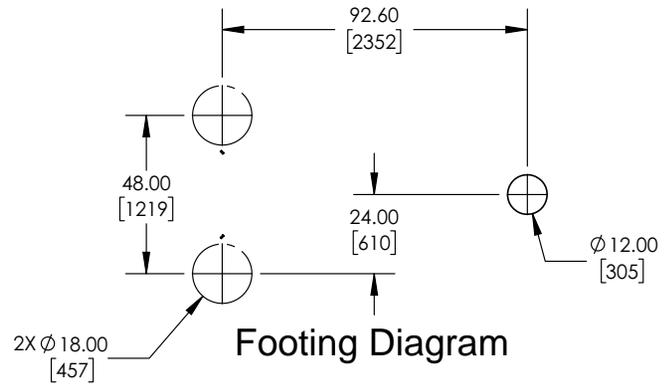
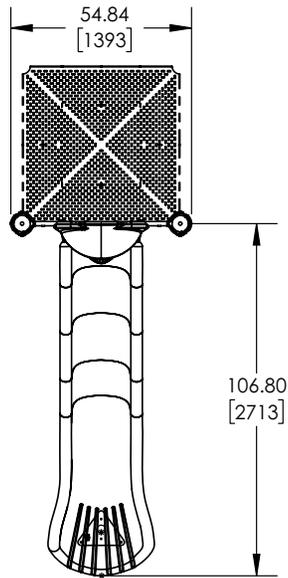
Elevation Views
PM2658



Installation Instructions

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

Top View



72" (1829 mm)

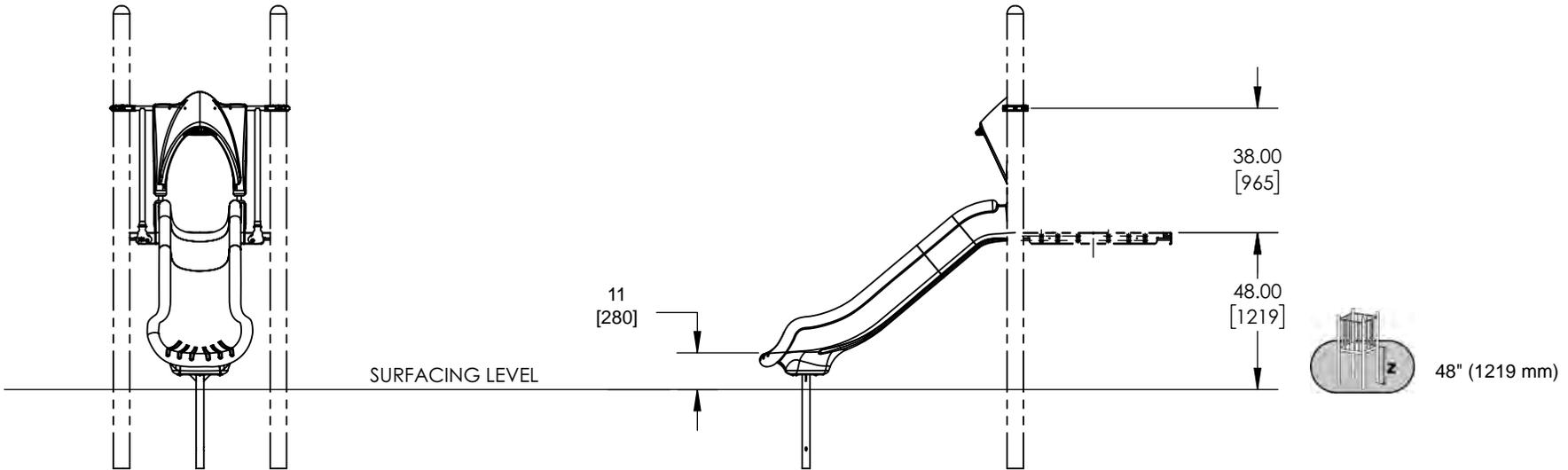
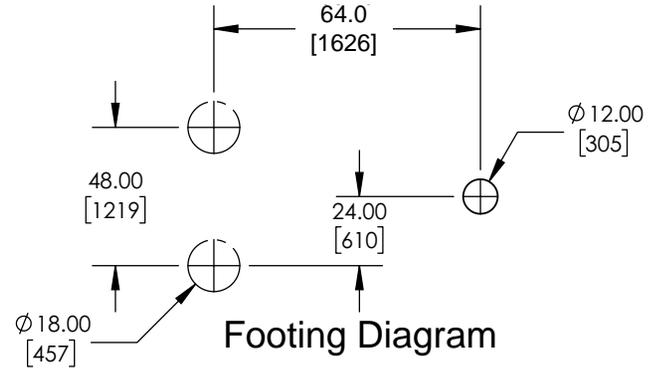
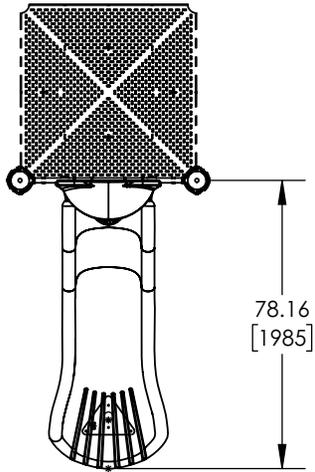
Elevation Views
PM2696



Installation Instructions

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

Top View



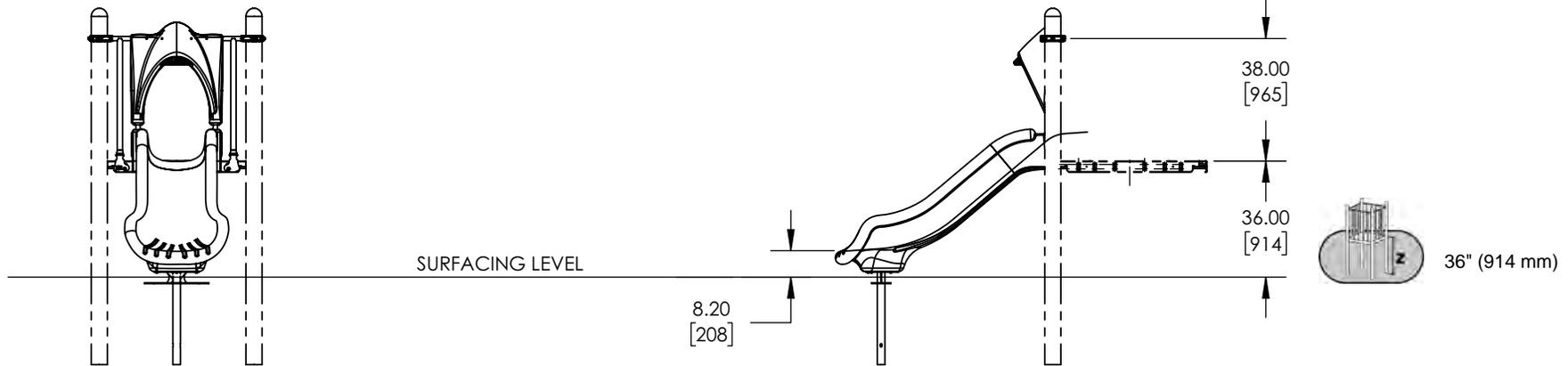
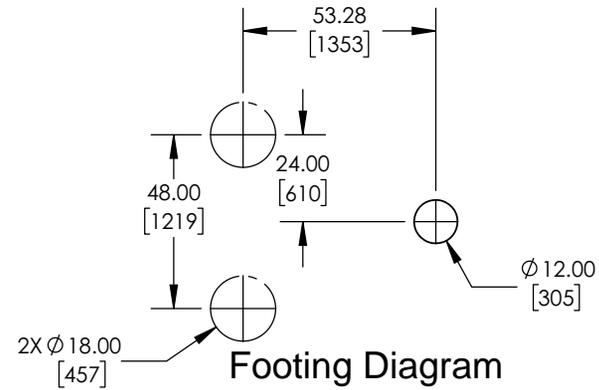
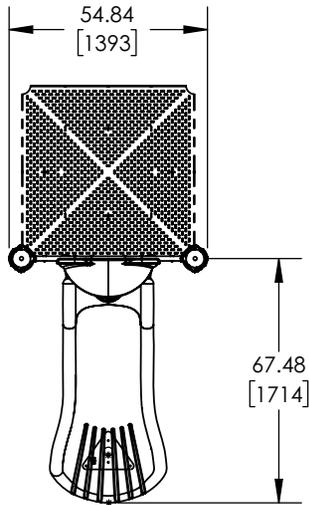
Elevation Views
PM3126



Installation Instructions

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

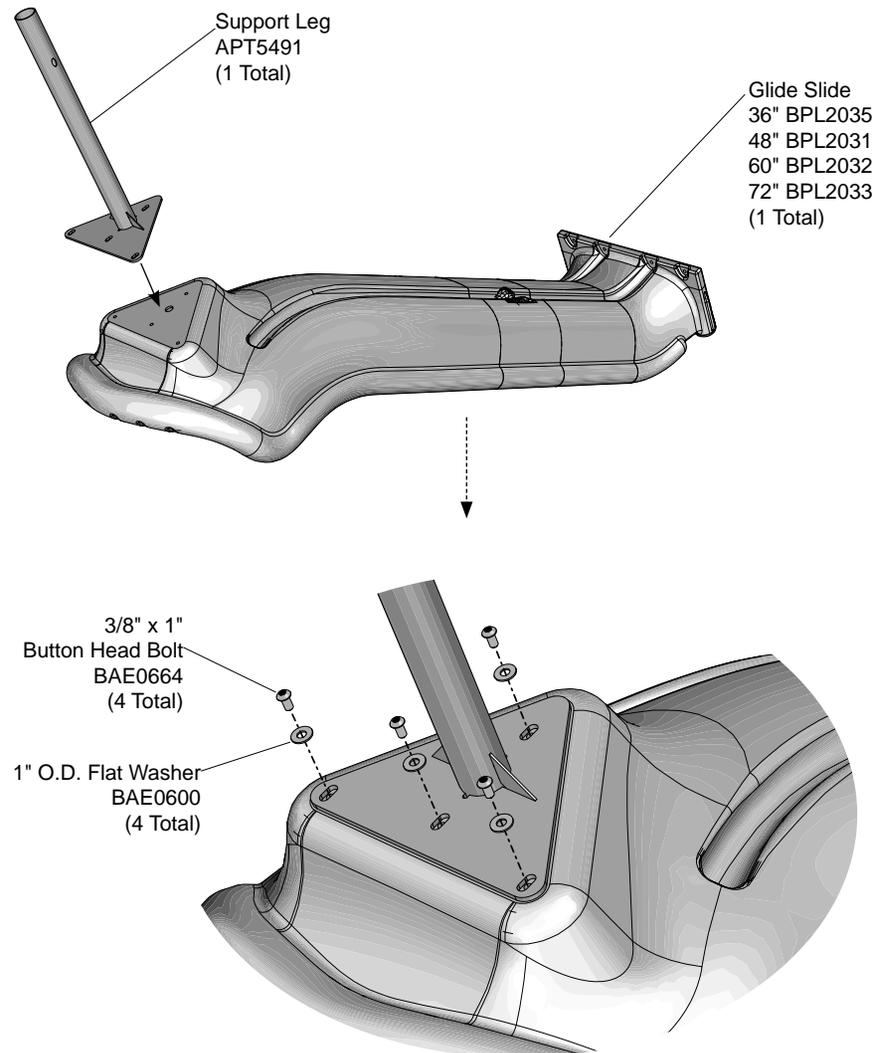
Top View



Elevation Views
PM3127

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 13.

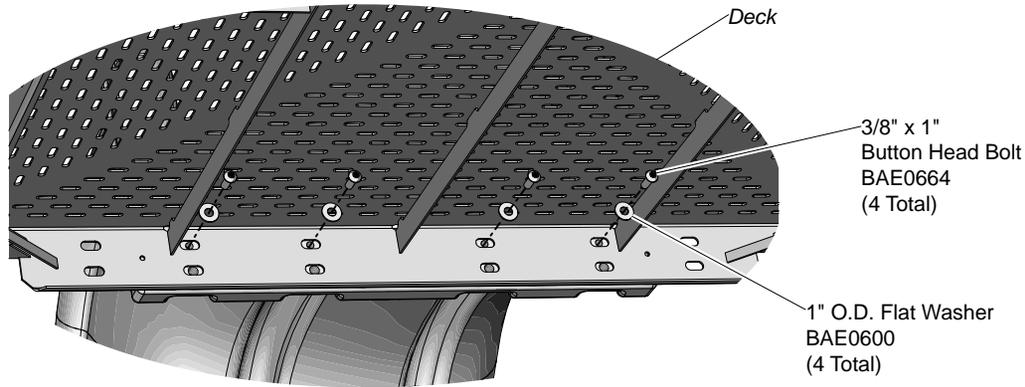


Detail A Step 4

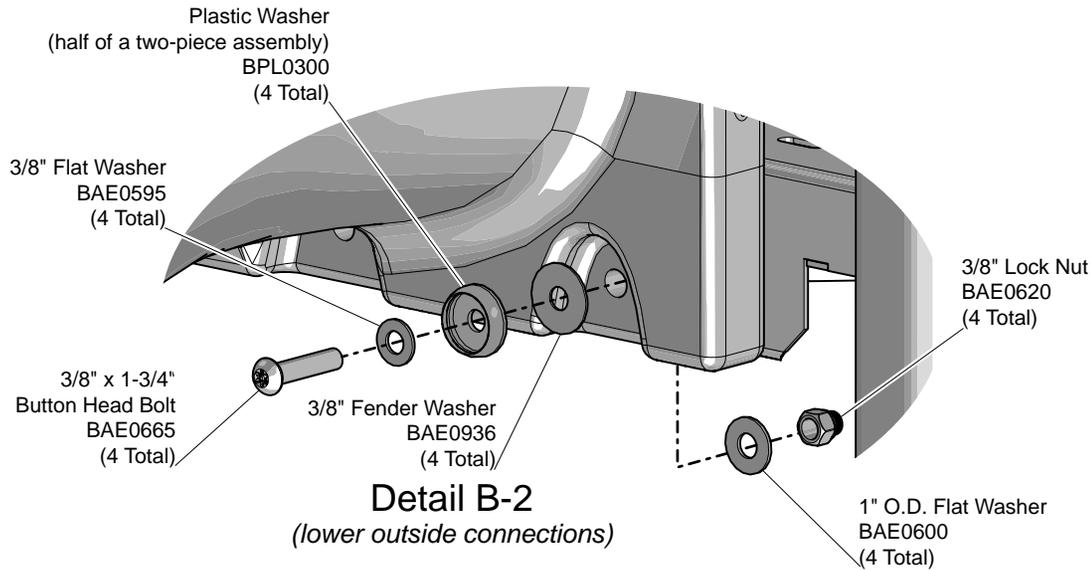
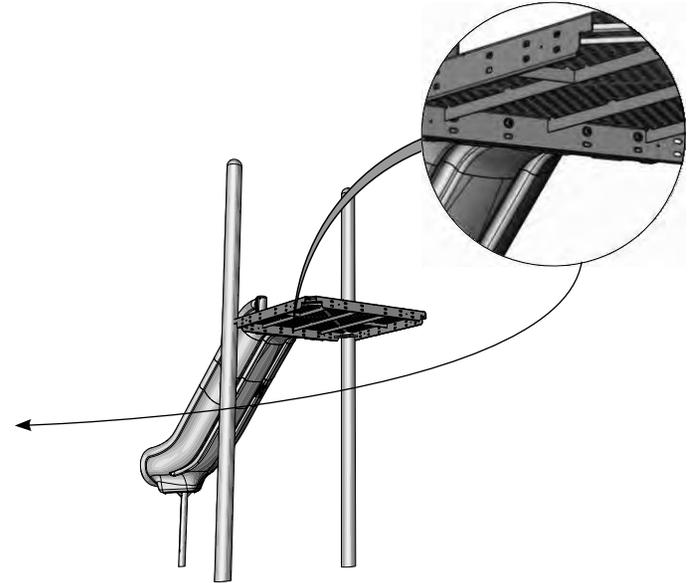
Attach the support leg to the slide.



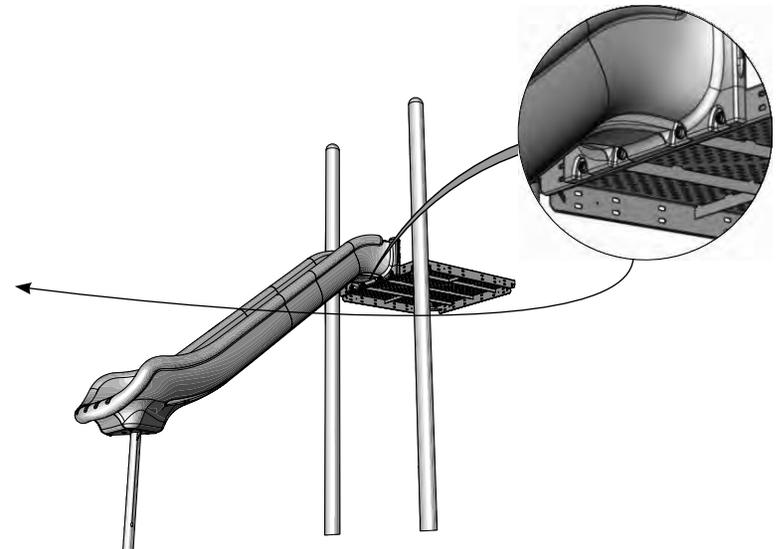
Installation Instructions



Detail B-1
(upper inside connections)

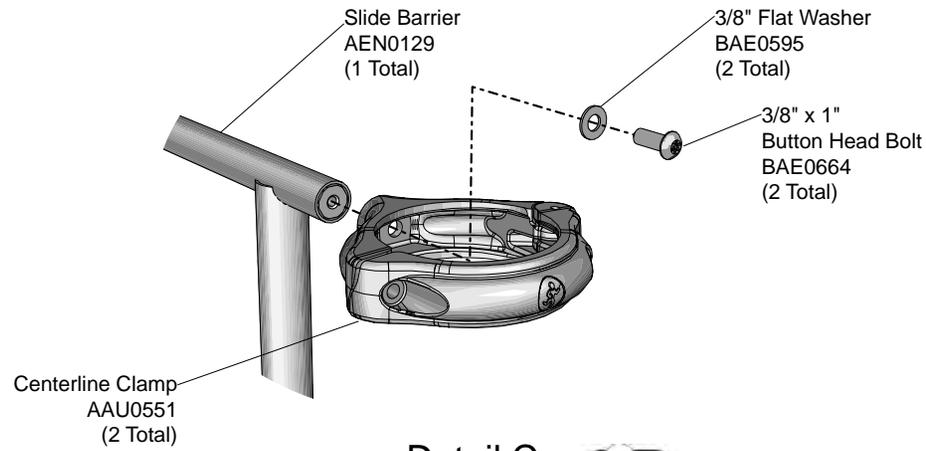


Detail B-2
(lower outside connections)



Details B-1 and B-2
Step 5
Attach the slide to the deck.

Installation Instructions



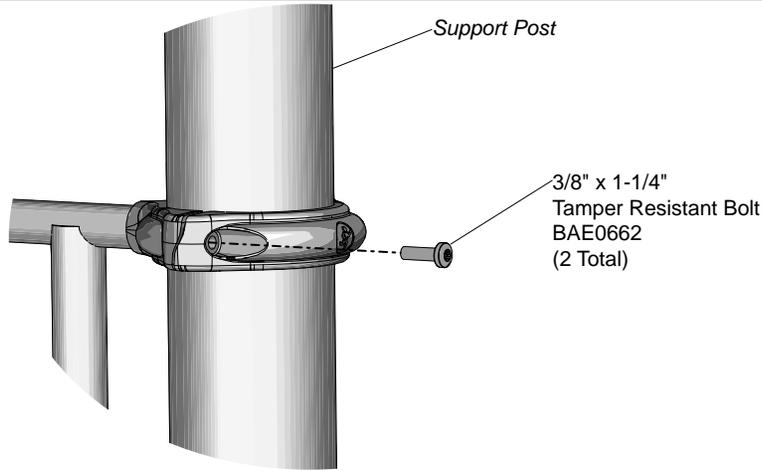
Detail C Step 6



Attach the clamps to the slide barrier.



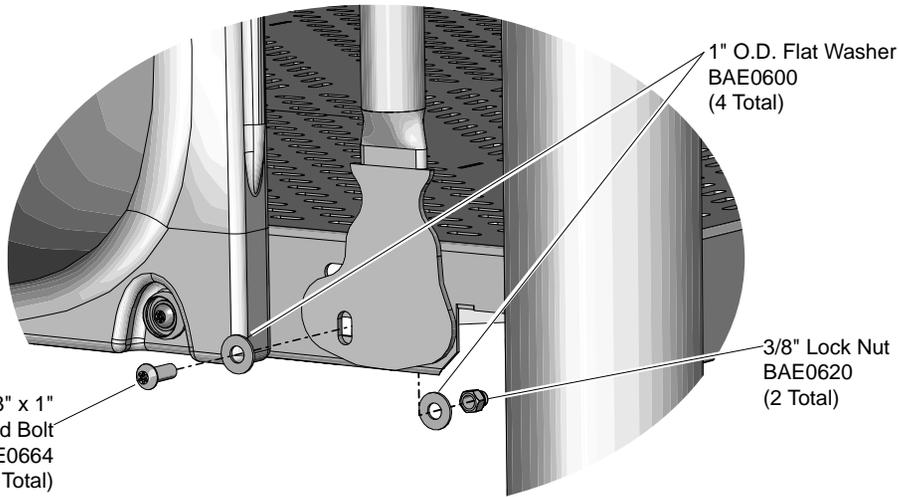
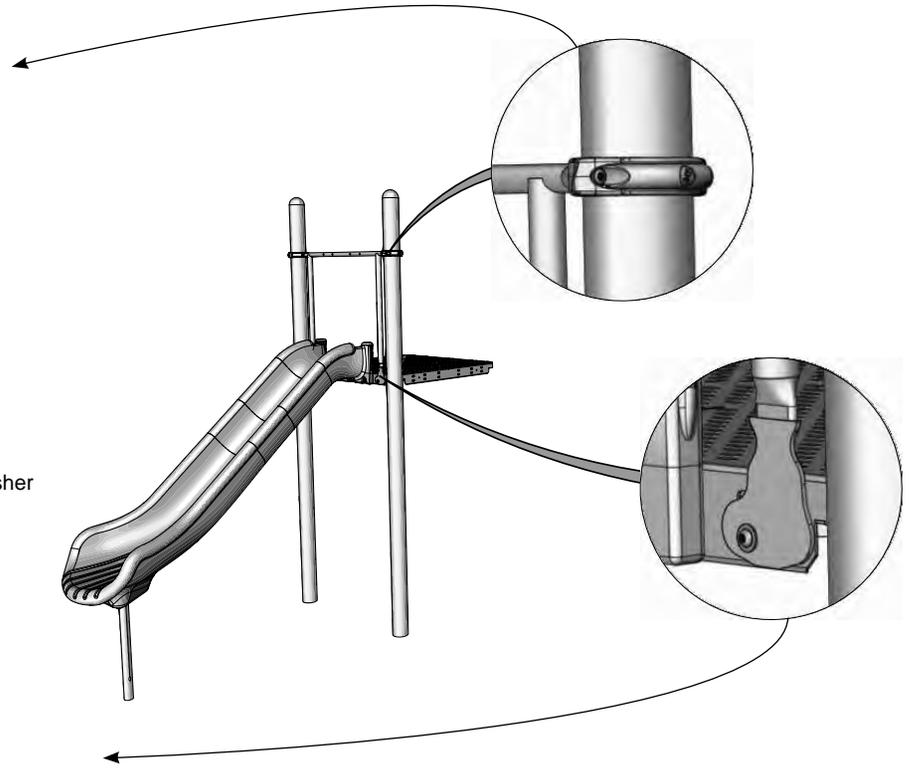
Installation Instructions



Detail D
Step 7



Attach the slide barrier to the support posts.

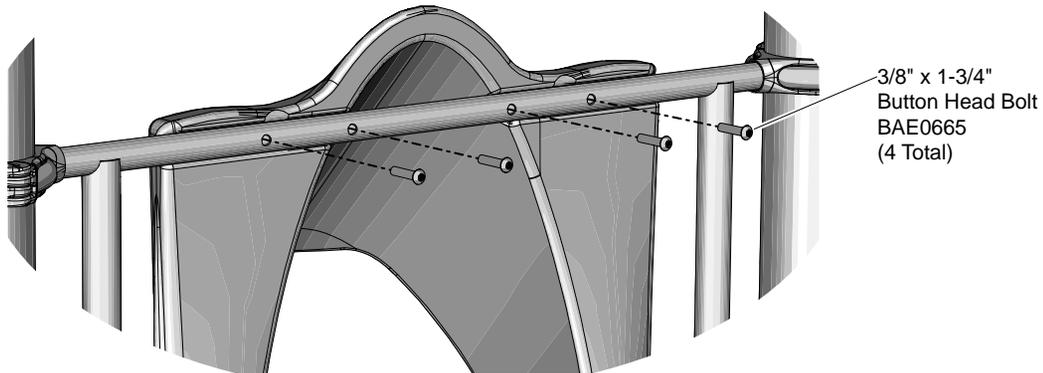
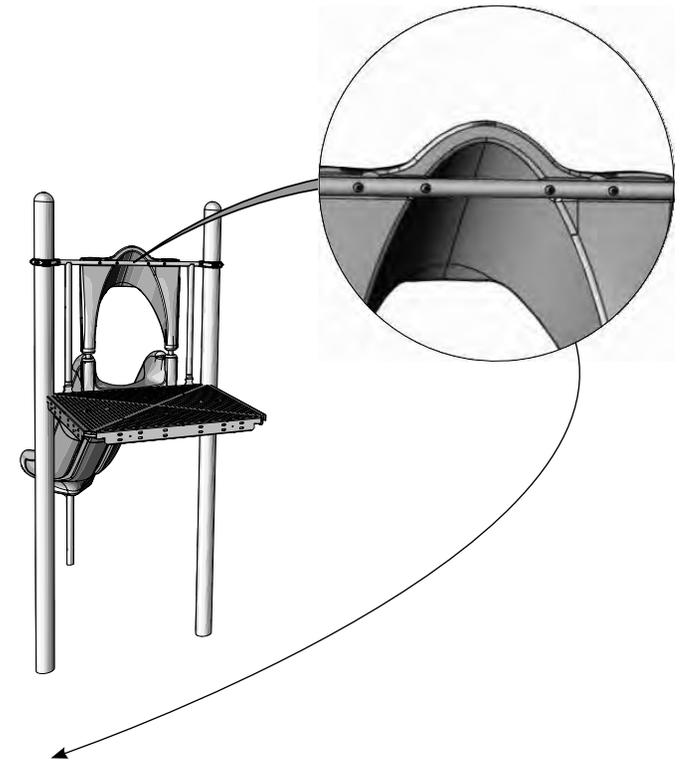
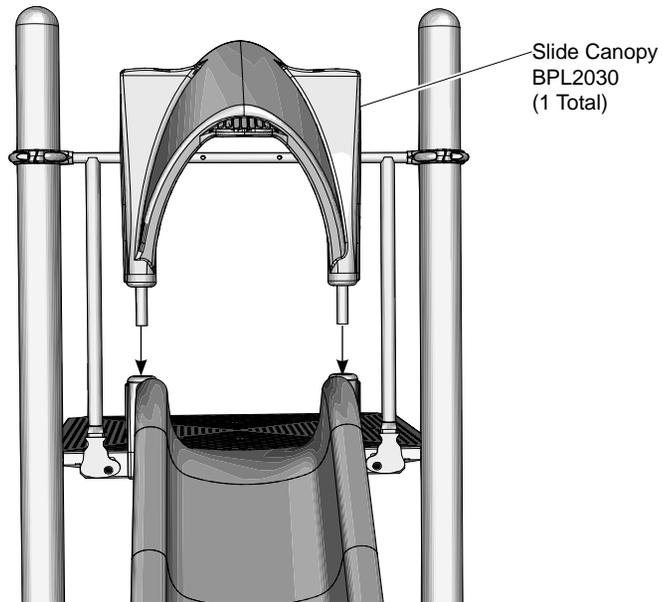


Detail E
Step 8



Attach the slide barrier to the deck.

Installation Instructions

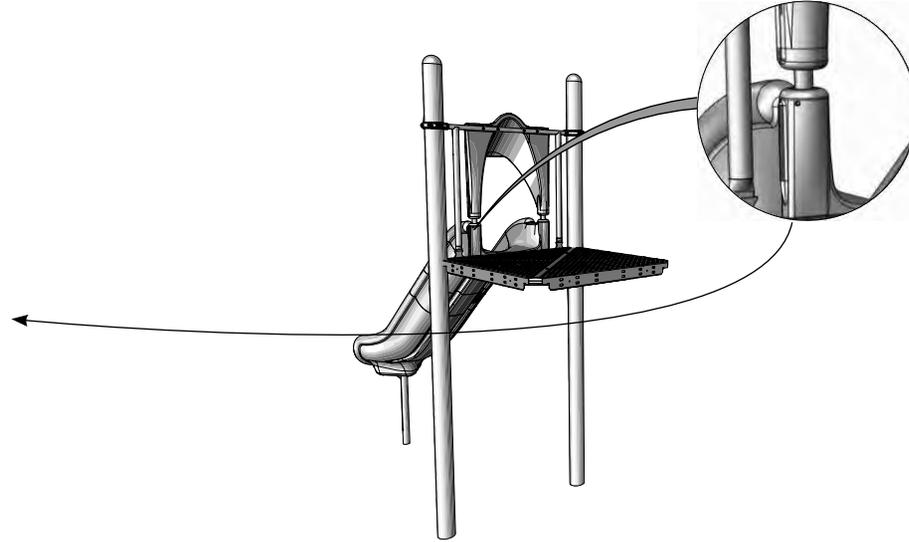
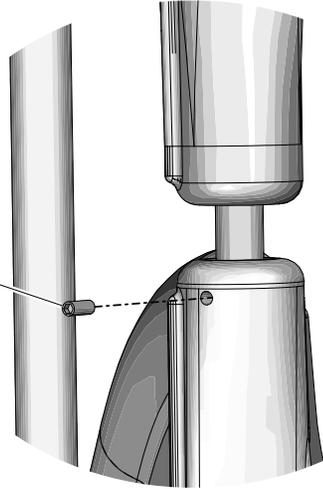


Detail F 
Step 9

Attach the slide canopy to the slide barrier .

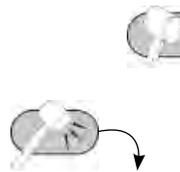
Installation Instructions

3/8" x 1"
Set Screw
BAE0629
(2 Total)

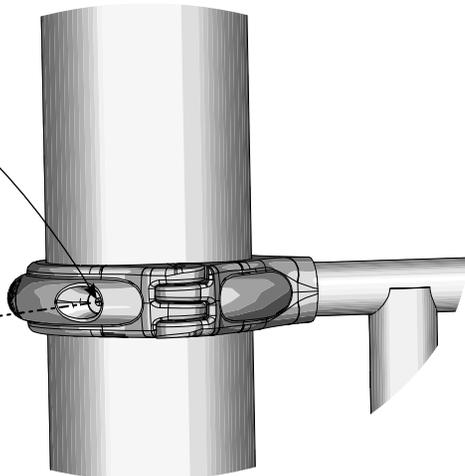


Detail G
Step 10

Attach the slide canopy to the glide slide.



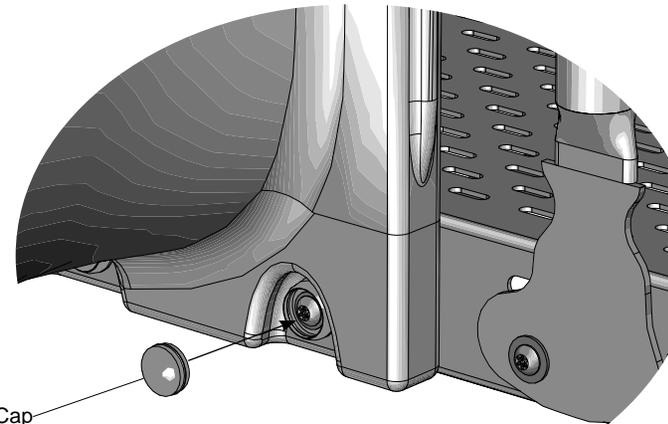
Drive Rivet
BAE0020
(2 Total)



Detail H
Step 12

Attach the slide canopy to the glide slide.

Plastic Bolt Cap
(half of a two-piece assembly)
BPL0300
(4 Total)



Detail J
Step 13

Insert the plastic 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 the footing as shown in the **Component Footing Detail** in the *Guidelines* at the beginning of this instruction booklet and on page 6 of this installation document.

Step 4: Attach the support leg to the slide. See **Detail A**. Position the mounting plate on the support leg against the bottom of the slide, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

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

Step 5: Attach the slide to the deck. See **Details B-1 and B-2**. Position the top of the slide against the deck and align the holes. Attach the slide to the upper holes in the deck from inside the deck. From the outside of the deck, attach the slide to the lower holes in the deck as shown.

Step 6: Attach the clamps to the slide barrier. See **Detail C**. Position a clamp against each end of the slide barrier and attach as shown. *Clamps should open in the same direction*. Fully tighten the connections according to tightening torque specifications.

Step 7: Attach the slide barrier to the support posts. See **Detail D**. Position the slide barrier between the support posts. Close the clamps around the posts at the height shown in the **Elevation View**, and attach as shown.

Step 8: Attach the slide barrier to the deck. See **Detail E**. Attach the mounting tab on the barrier to the lower hole in the deck as shown.

Step 9: Attach the slide canopy to the slide barrier. See **Detail F**. Position the canopy over the slide and insert the canopy extensions into the top of the slide with the top of the canopy against the barrier. Attach the canopy to the barrier as shown.

Step 10: Attach the slide canopy to the glide slide. See **Detail G**. Attach the canopy to the top of the slide as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

36" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

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

Torque Specifications:

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

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

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.

Step 12: Select plastic bolt caps and press into the plastic washers. See **Detail J**. The bolt caps install more easily when they are warm.

Step 13: Apply the hood string entanglement warning label to the slide.



PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.66" O.D. x 41.00" x 42.10"	1
APT5491	POST - 28.94" x 13.92" x 10.23"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	8
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
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.66" O.D. x 41.00" x 42.10"	1
APT5491	POST - 28.94" x 13.92" x 10.23"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	8
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
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.66" O.D. x 41.00" x 42.10"	1
APT5491	POST - 28.94" x 13.92" x 10.23"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	8
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
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.66" O.D. x 41.00" x 42.10"	1
APT5491	POST - 28.94" x 13.92" x 10.23"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	8
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
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



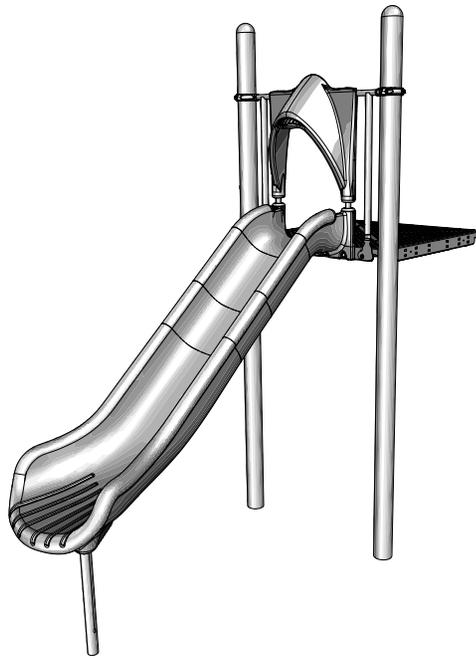
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Installation Instructions Playmakers[®]

Models PM2658, PM2696, PM3126-PM3127
36"-72" (914-1829 mm) Glide Slides

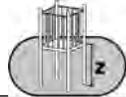
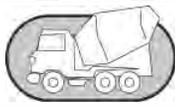
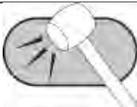


Assembly View (representative model)

Model	Deck Height
PM3127	36" (915 mm)
PM3126	48" (1220 mm)
PM2658	60" (1525 mm)
PM2696	72" (1830 mm)

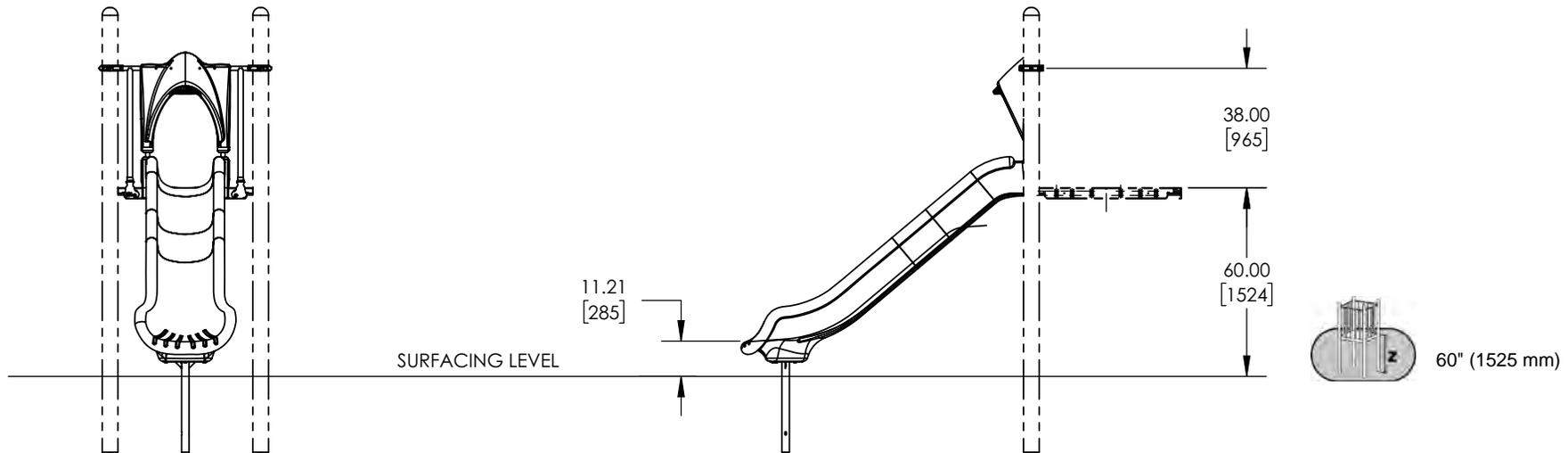
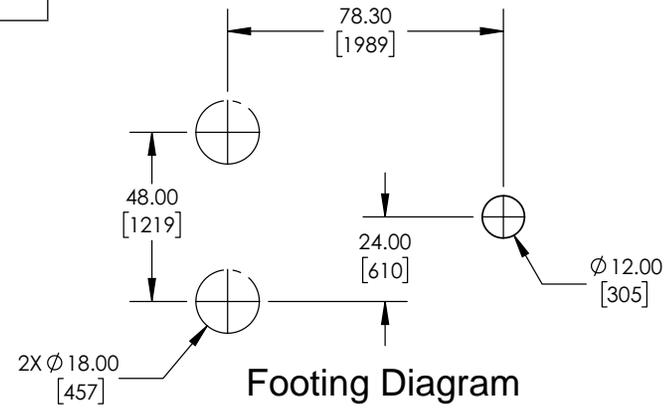
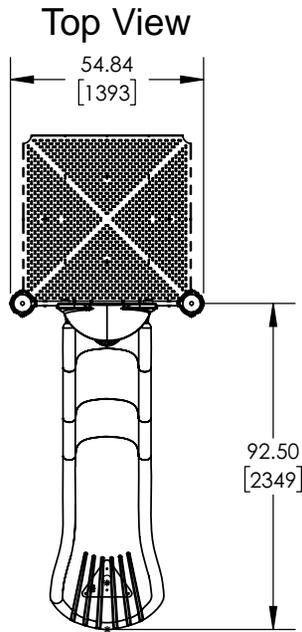
Installation Preparation

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 (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]



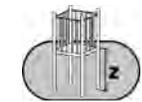
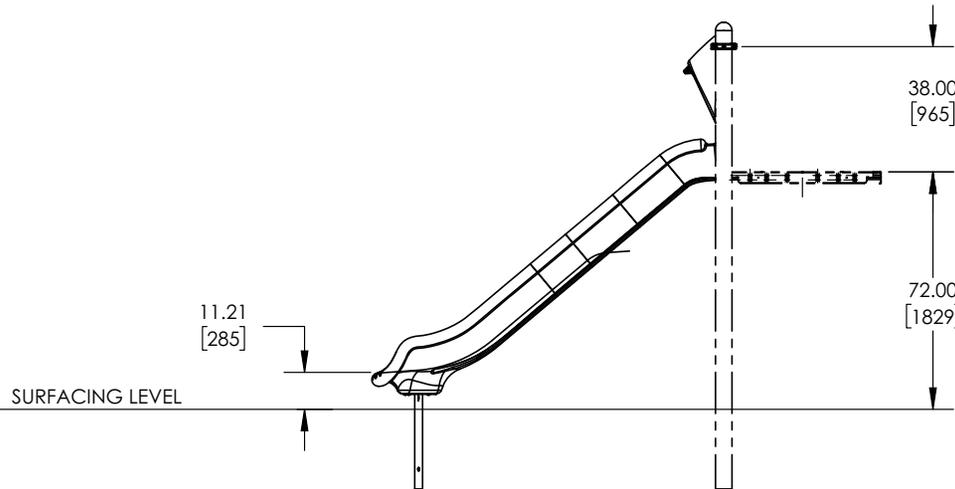
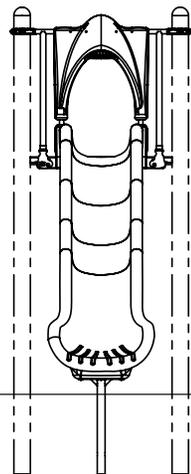
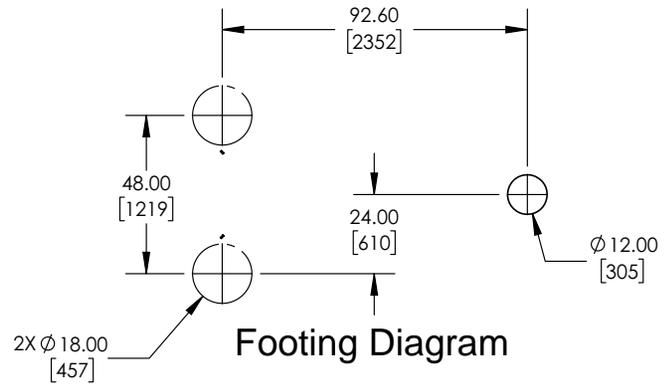
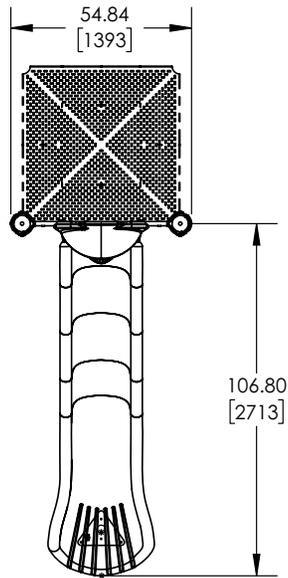
**Elevation Views
PM2658**



Installation Instructions

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

Top View



72" (1829 mm)

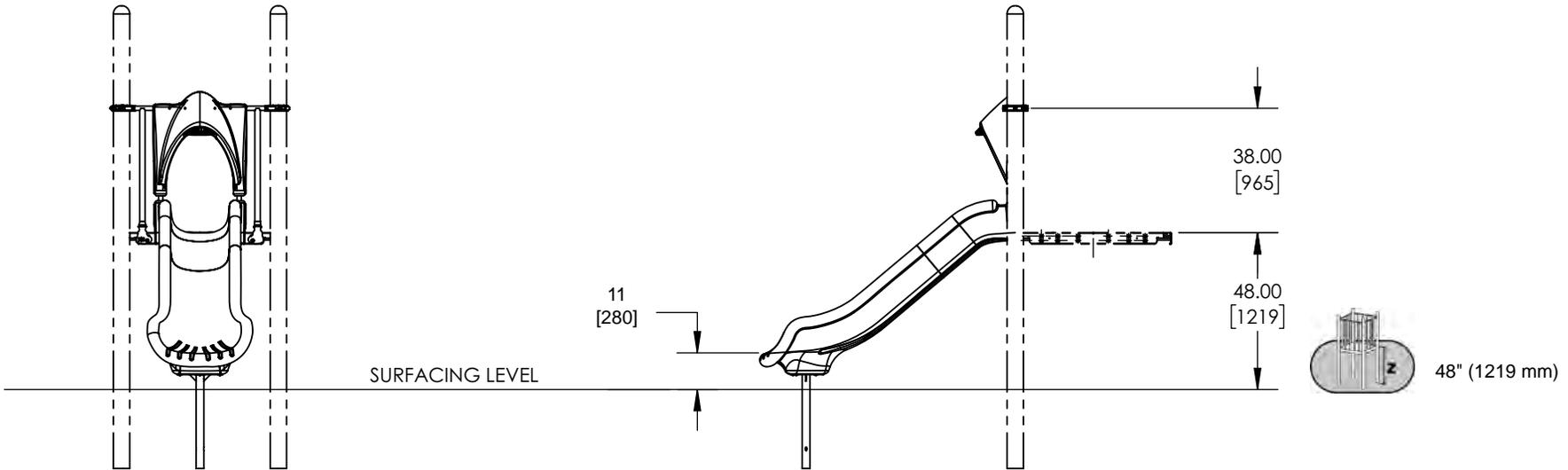
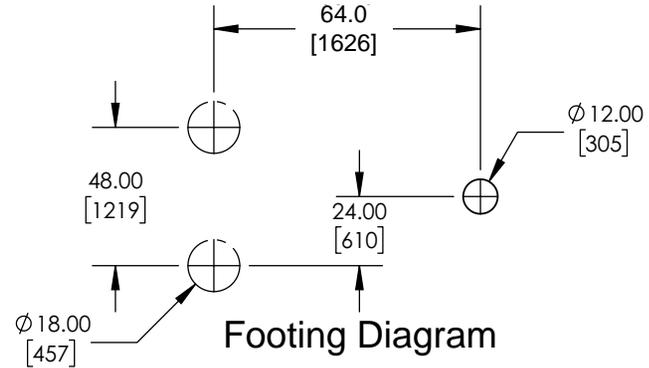
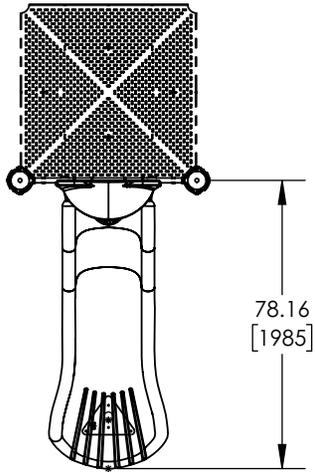
Elevation Views
PM2696



Installation Instructions

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

Top View



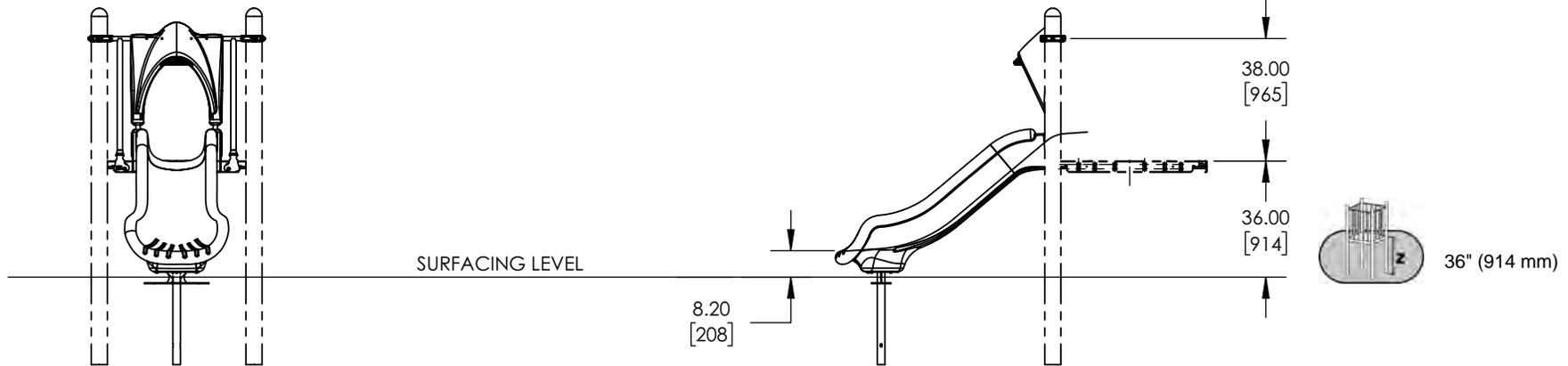
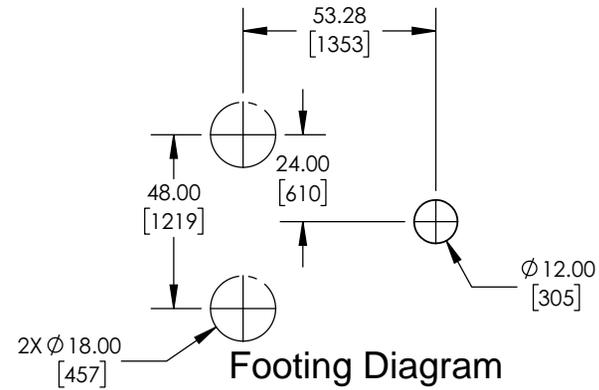
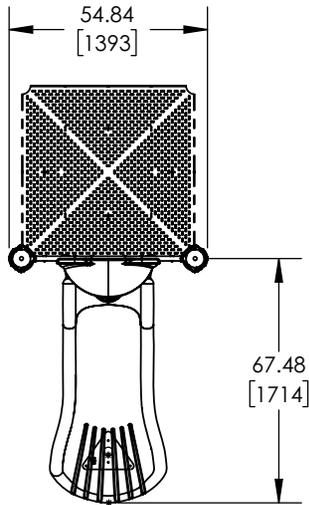
Elevation Views
PM3126



Installation Instructions

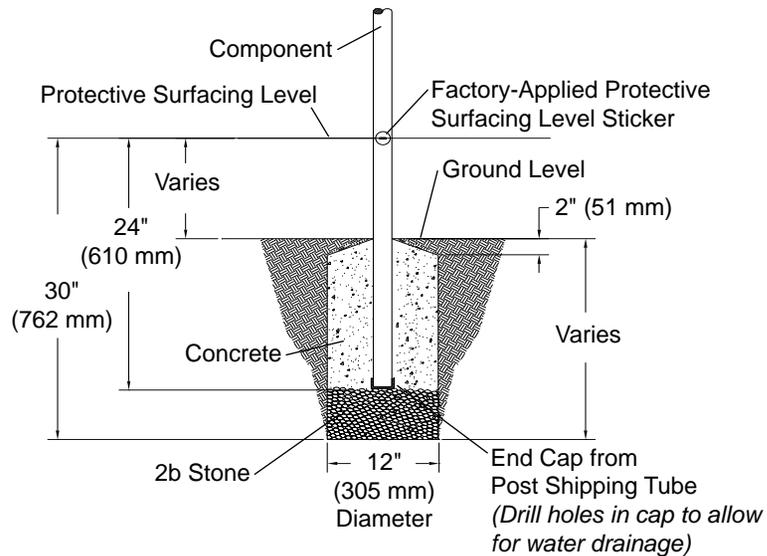
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Elevation Views
PM3127

Installation Instructions



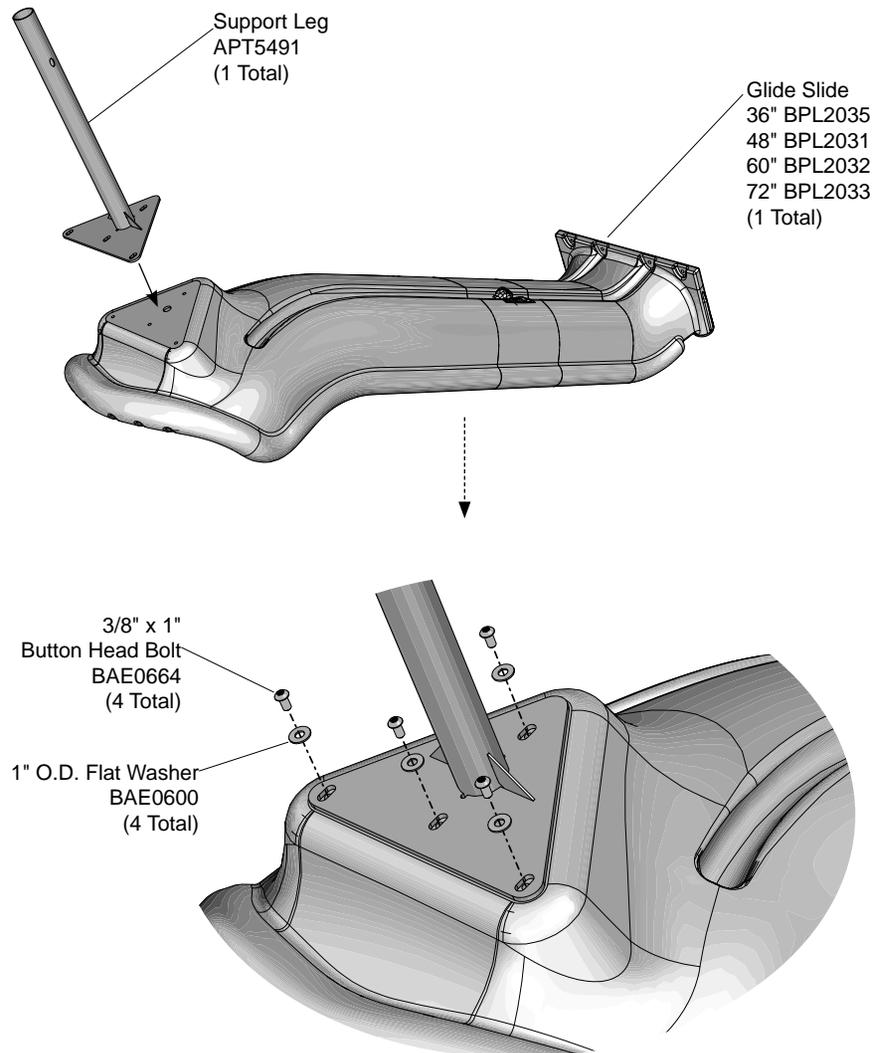
Component Footing Detail (ASTM/CSA)

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

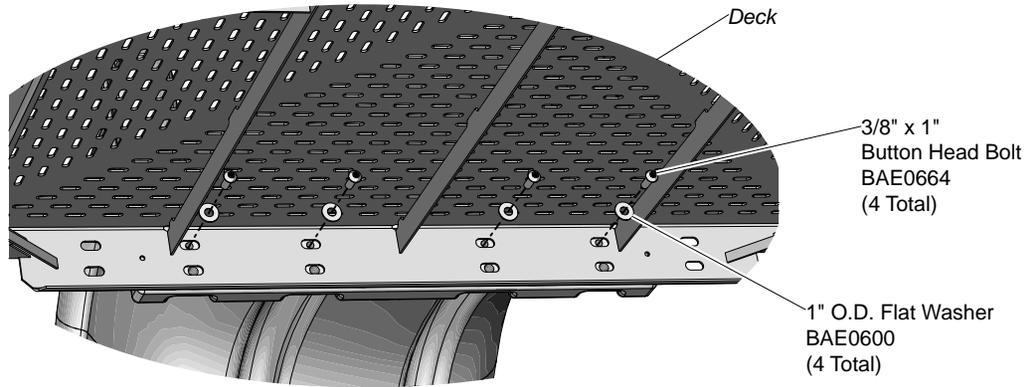
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 13.



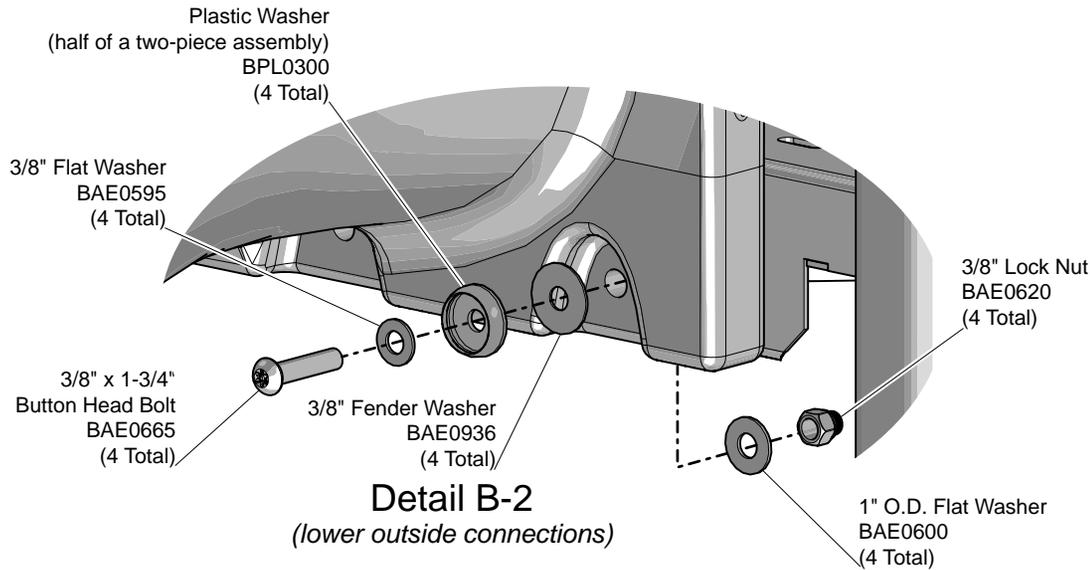
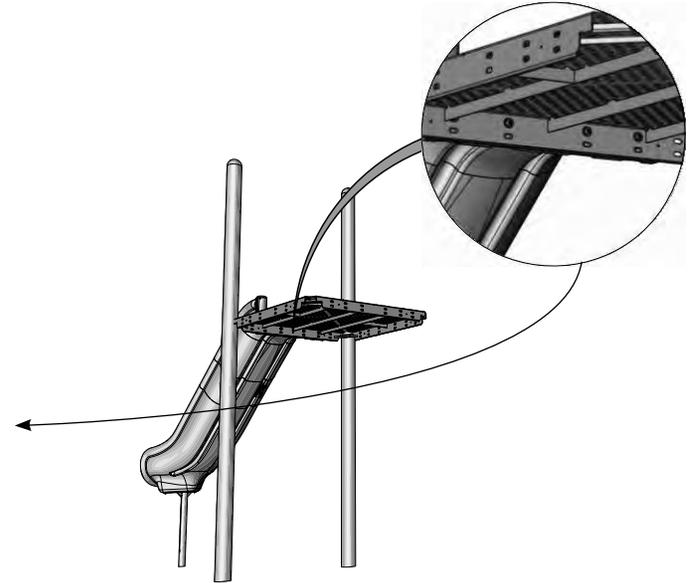
Detail A Step 4

Attach the support leg to the slide.

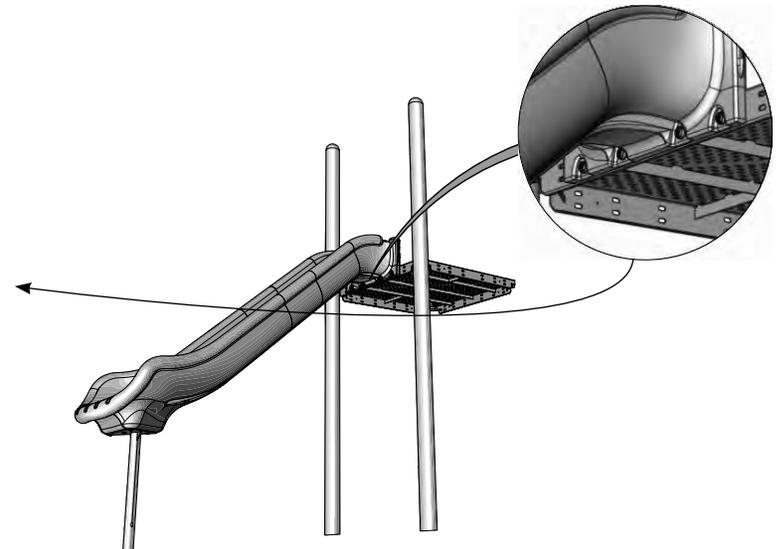
Installation Instructions



Detail B-1
(upper inside connections)

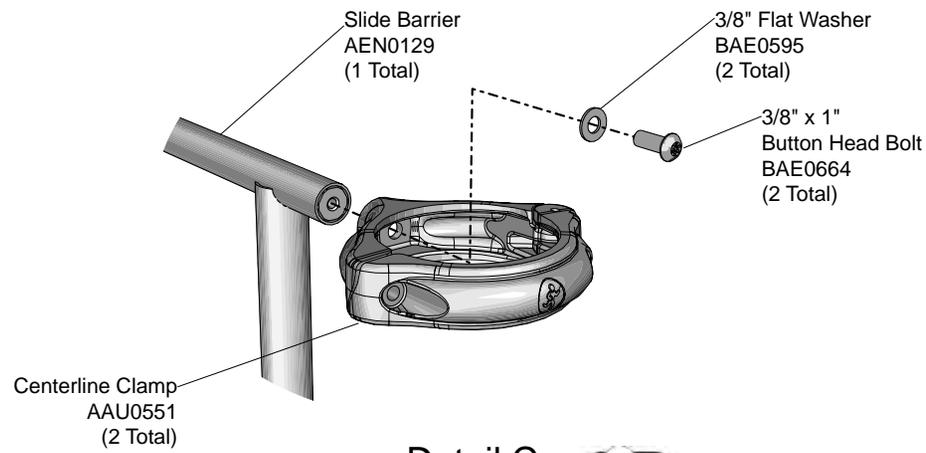


Detail B-2
(lower outside connections)



Details B-1 and B-2
Step 5
Attach the slide to the deck.

Installation Instructions



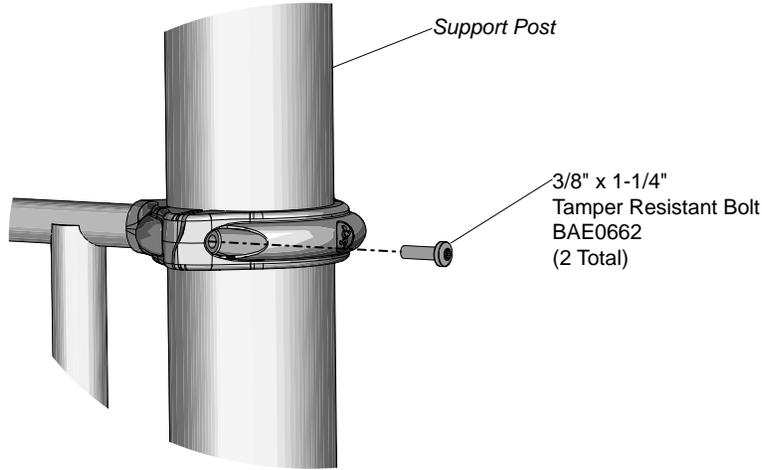
Detail C Step 6



Attach the clamps to the slide barrier.



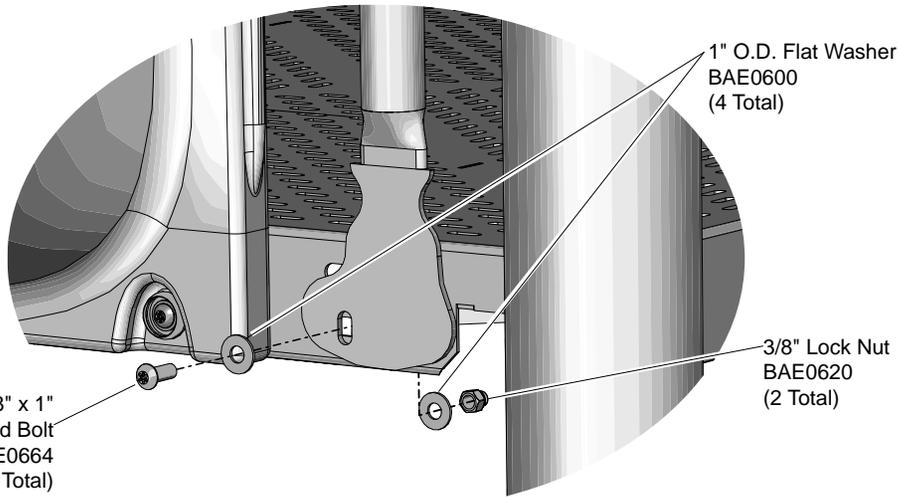
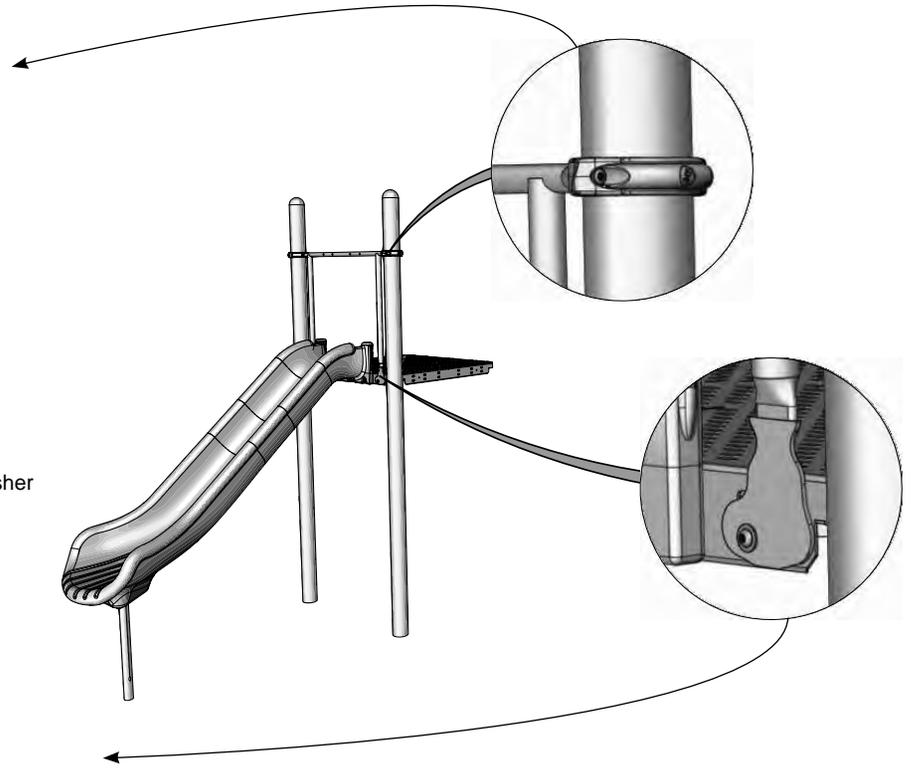
Installation Instructions



Detail D
Step 7



Attach the slide barrier to the support posts.

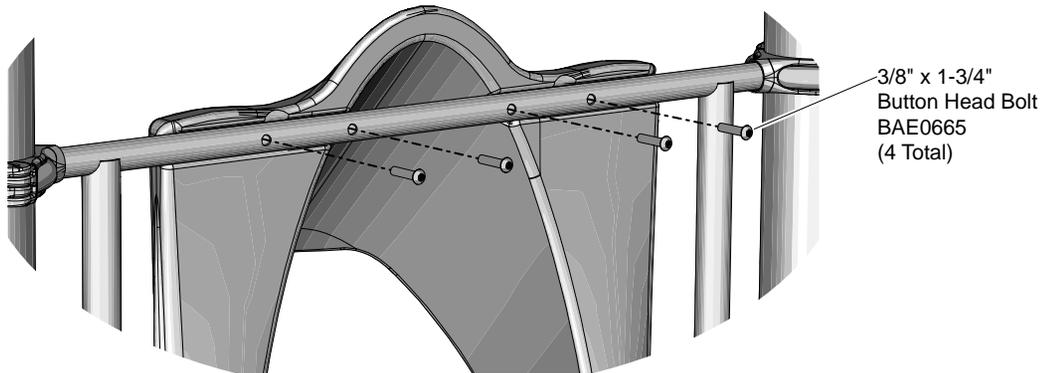
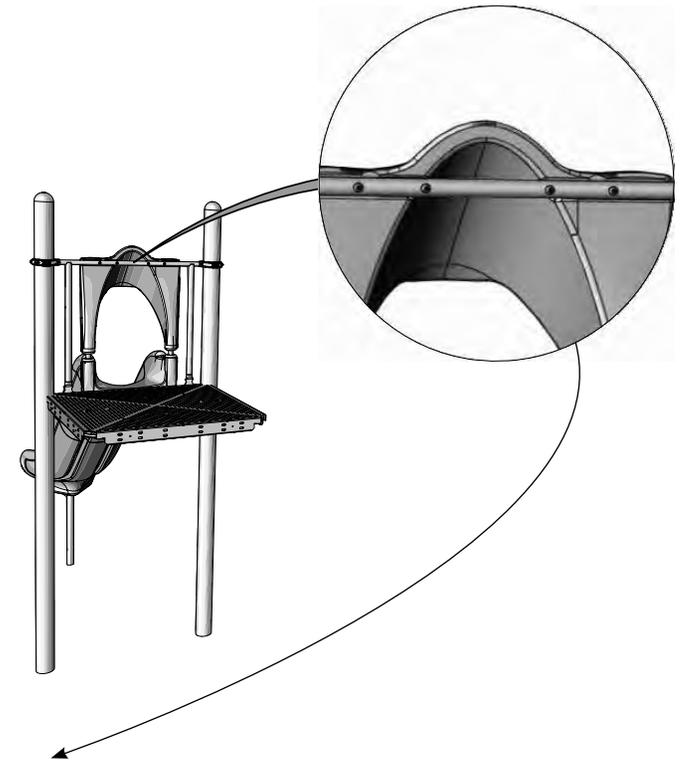
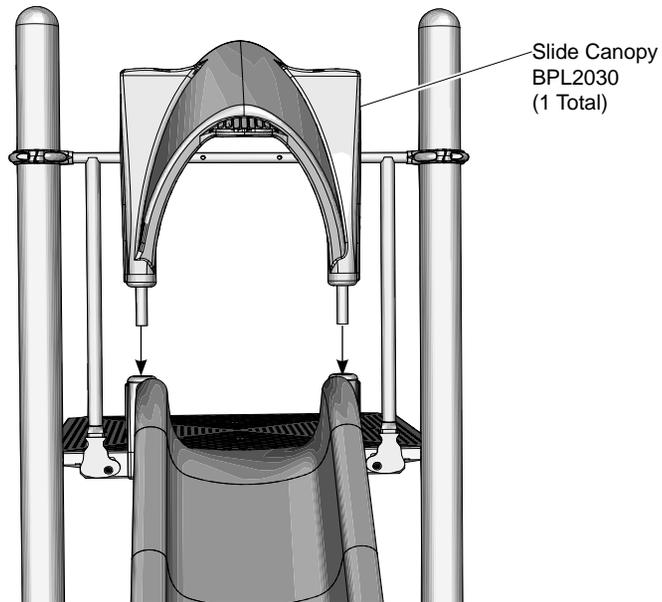


Detail E
Step 8



Attach the slide barrier to the deck.

Installation Instructions

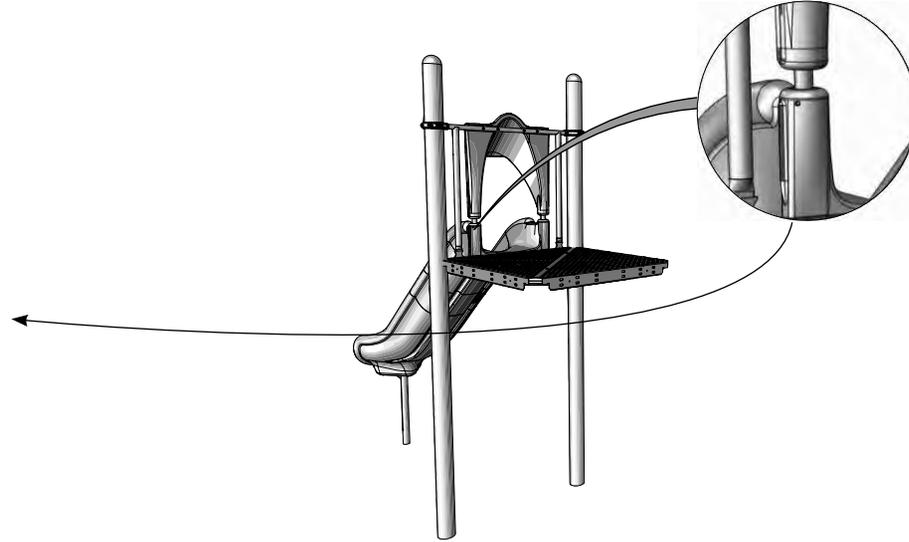
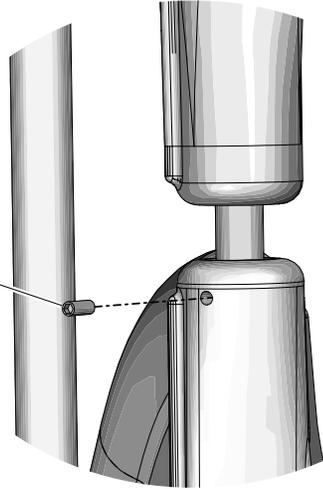


Detail F 
Step 9

Attach the slide canopy to the slide barrier .

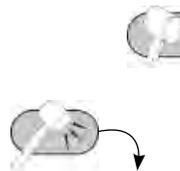
Installation Instructions

3/8" x 1"
Set Screw
BAE0629
(2 Total)

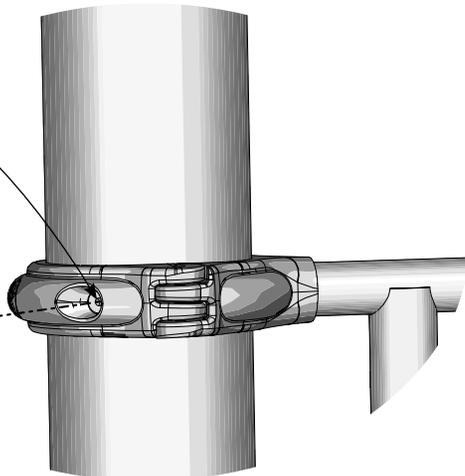


Detail G
Step 10

Attach the slide canopy to the glide slide.



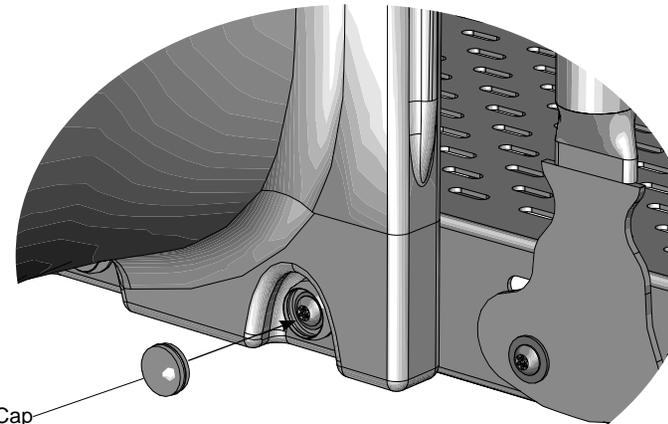
Drive Rivet
BAE0020
(2 Total)



Detail H
Step 12

Attach the slide canopy to the glide slide.

Plastic Bolt Cap
(half of a two-piece assembly)
BPL0300
(4 Total)



Detail J
Step 13

Insert the plastic 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 the footing as shown in the **Component Footing Detail** in the *Guidelines* at the beginning of this instruction booklet and on page 6 of this installation document.

Step 4: Attach the support leg to the slide. See **Detail A**. Position the mounting plate on the support leg against the bottom of the slide, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

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

Step 5: Attach the slide to the deck. See **Details B-1 and B-2**. Position the top of the slide against the deck and align the holes. Attach the slide to the upper holes in the deck from inside the deck. From the outside of the deck, attach the slide to the lower holes in the deck as shown.

Step 6: Attach the clamps to the slide barrier. See **Detail C**. Position a clamp against each end of the slide barrier and attach as shown. *Clamps should open in the same direction*. Fully tighten the connections according to tightening torque specifications.

Step 7: Attach the slide barrier to the support posts. See **Detail D**. Position the slide barrier between the support posts. Close the clamps around the posts at the height shown in the **Elevation View**, and attach as shown.

Step 8: Attach the slide barrier to the deck. See **Detail E**. Attach the mounting tab on the barrier to the lower hole in the deck as shown.

Step 9: Attach the slide canopy to the slide barrier. See **Detail F**. Position the canopy over the slide and insert the canopy extensions into the top of the slide with the top of the canopy against the barrier. Attach the canopy to the barrier as shown.

Step 10: Attach the slide canopy to the glide slide. See **Detail G**. Attach the canopy to the top of the slide as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

36" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

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

Torque Specifications:

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

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

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.

Step 12: Select plastic bolt caps and press into the plastic washers. See **Detail J**. The bolt caps install more easily when they are warm.

Step 13: Apply the hood string entanglement warning label to the slide.



PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.66" O.D. x 41.00" x 42.10"	1
APT5491	POST - 28.94" x 13.92" x 10.23"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	8
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
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.66" O.D. x 41.00" x 42.10"	1
APT5491	POST - 28.94" x 13.92" x 10.23"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	8
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
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.66" O.D. x 41.00" x 42.10"	1
APT5491	POST - 28.94" x 13.92" x 10.23"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	8
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
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.66" O.D. x 41.00" x 42.10"	1
APT5491	POST - 28.94" x 13.92" x 10.23"	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	12
BAE0665	BOLT - 3/8"-16 x 1.75" BUTTON HEAD - SS	8
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
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Installation Instructions

Playmakers® Model PM4288

Compliance Access Gate



Assembly View

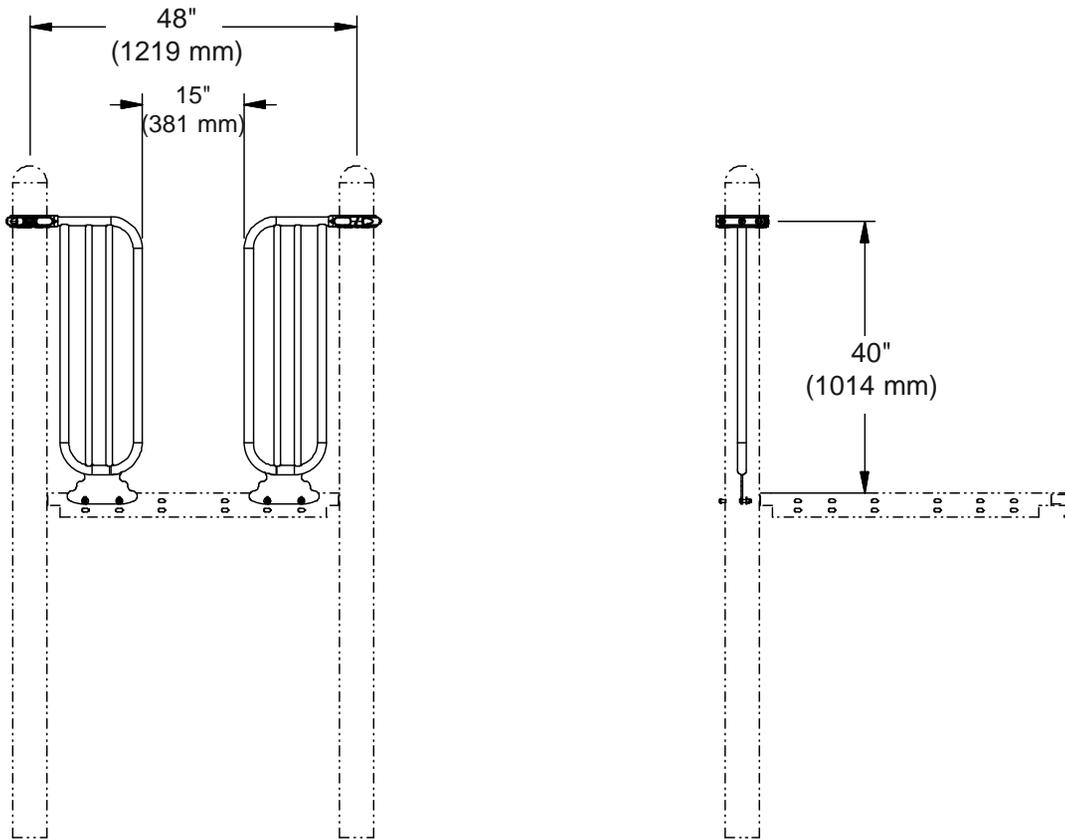
Installation Preparation

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

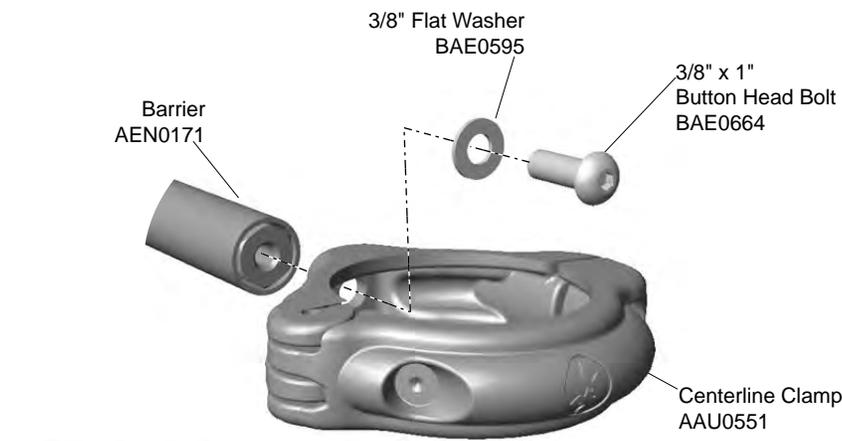
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



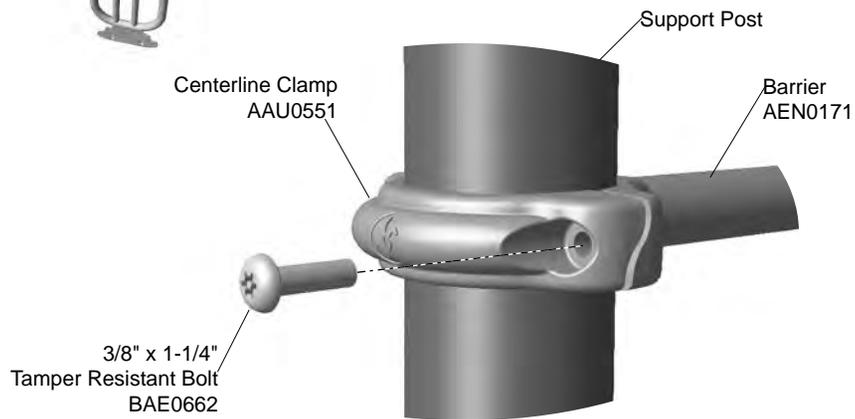
Elevation View

Installation Instructions

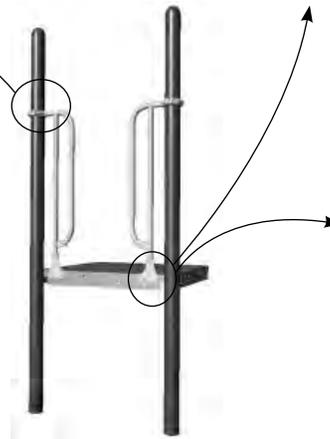
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



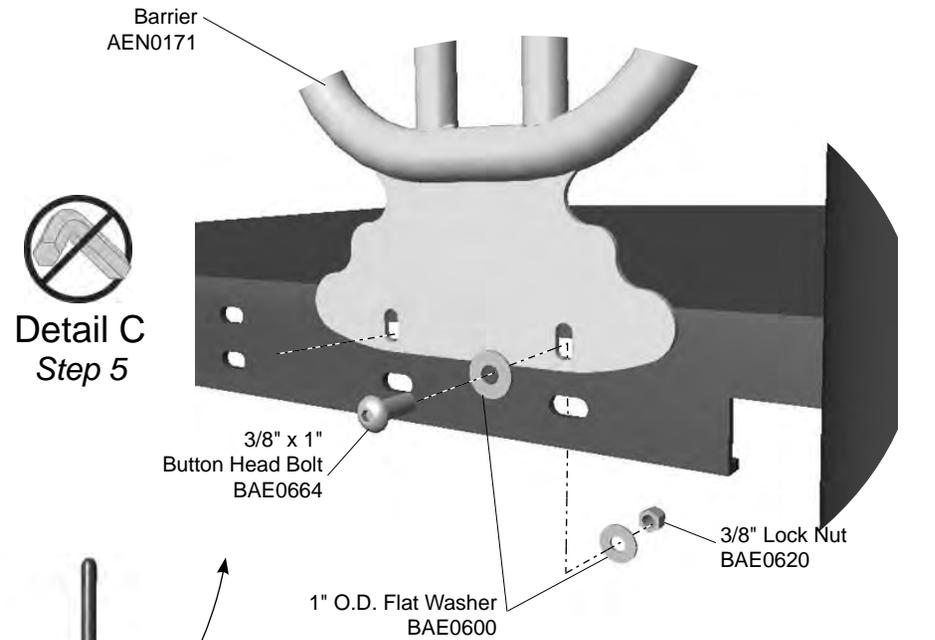
Detail A
Step 3



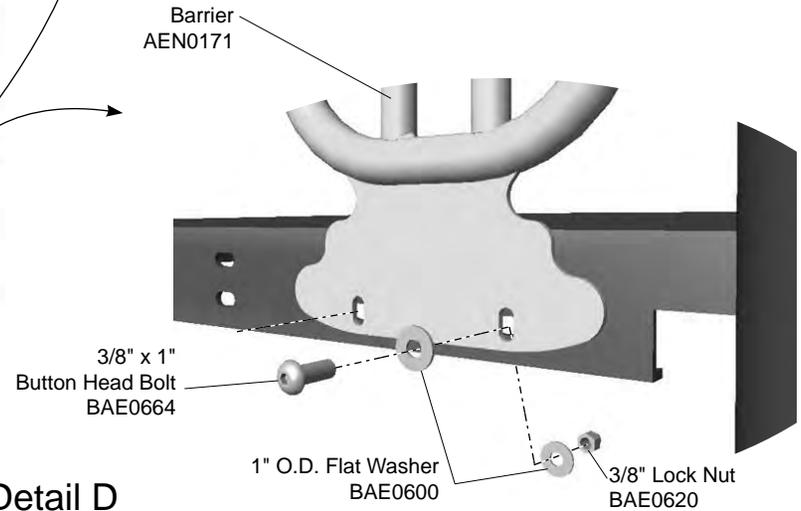
Detail B
Step 4



Detail D
Step 5



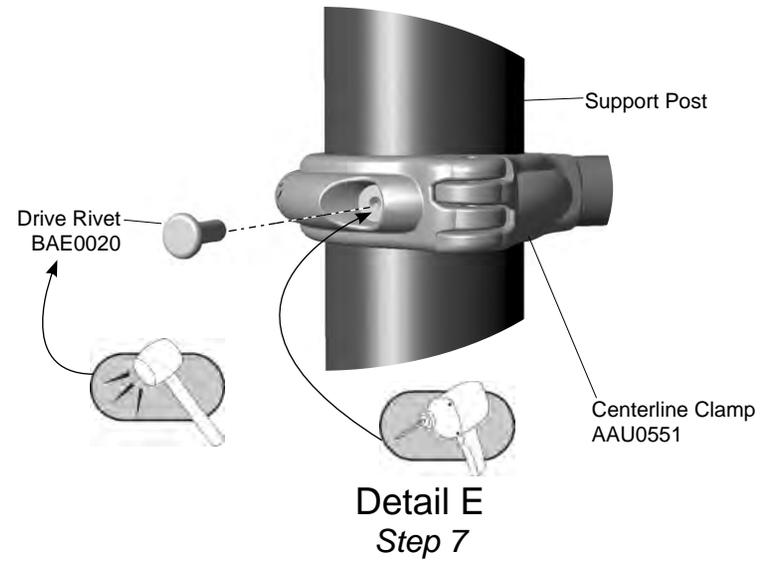
Detail C
Step 5



Installation Instructions



Step 6



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

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

Attach the clamps to the support posts.

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

Attach the barrier to the deck.

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

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

Final Details.

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

Torque Specifications:

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

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

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



PM4288 - COMPLIANCE ACCESS GATE

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



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Assembly View (representative model)

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

Installation Instructions

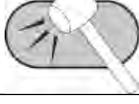
Playmakers® Models PM4556, PM4557,
PM4558, and PM4559

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

Installation Preparation

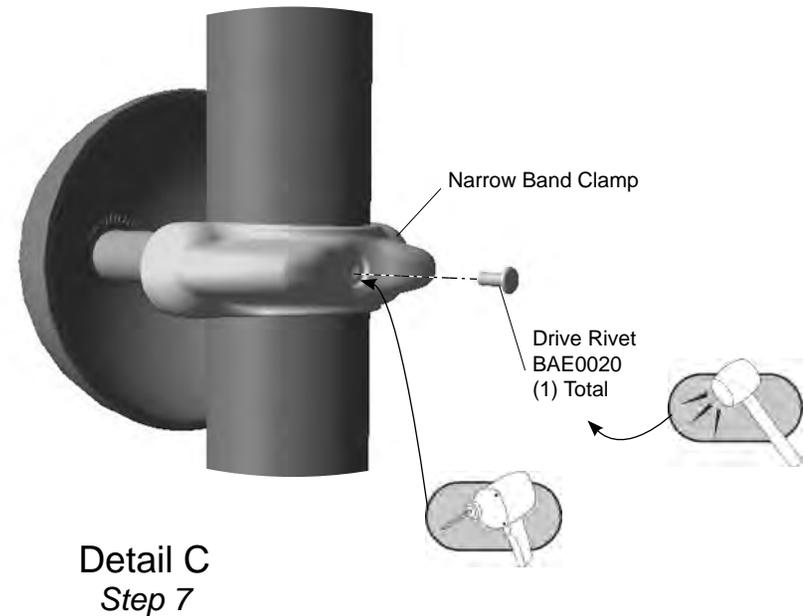
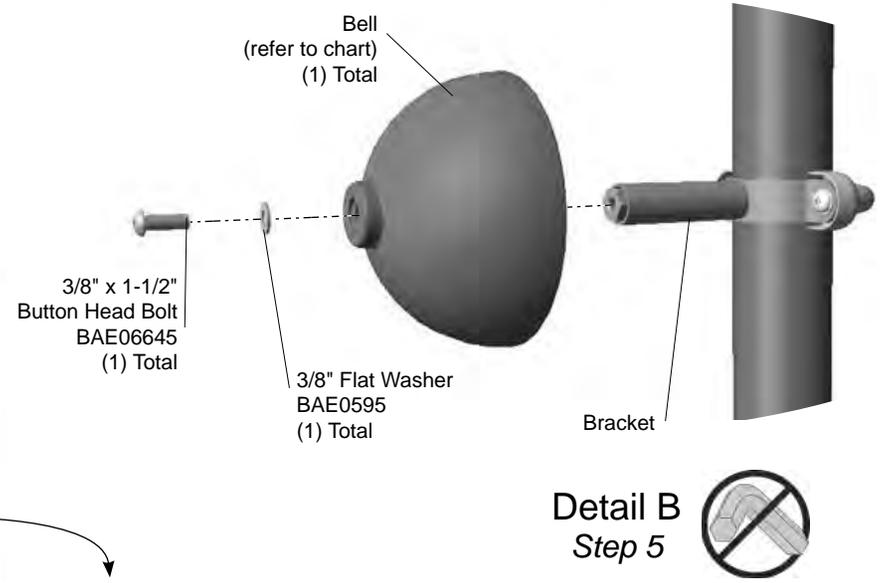
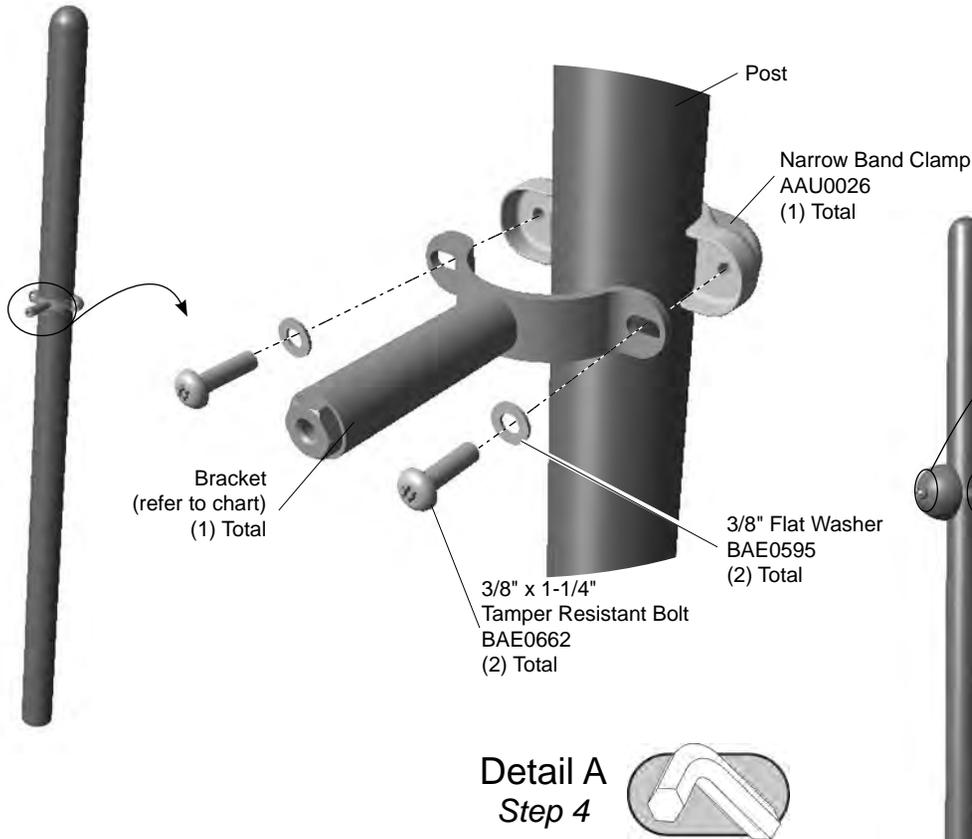
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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.



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



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.



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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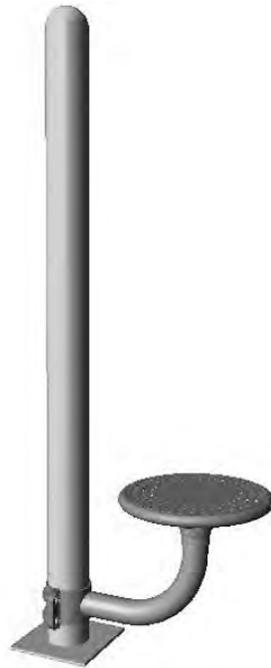
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Installation Instructions

Playmakers[®] Model PM4578

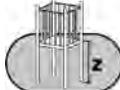
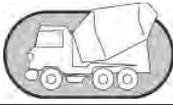
Family Furnishings - Anywhere Seat



Assembly View

Installation Preparation

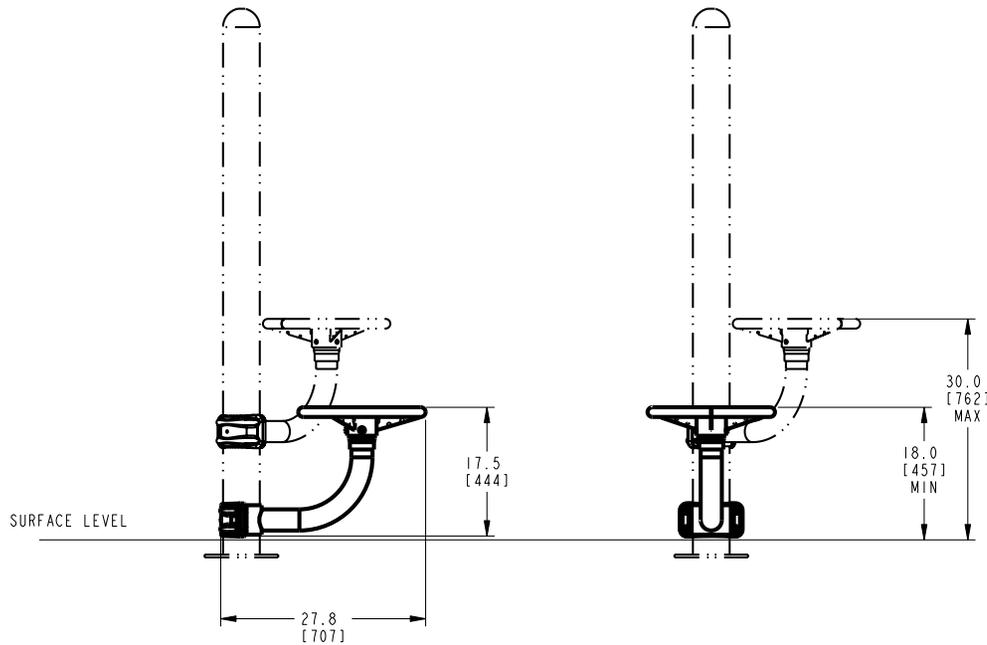
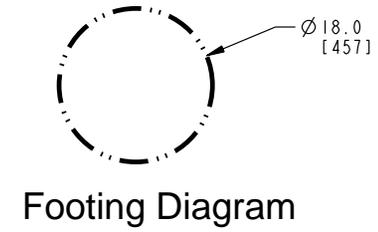
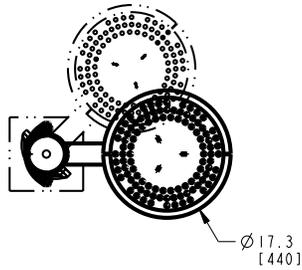
Recommended Crew: One (2) adult
 Installation Time: 0.25 hour

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]

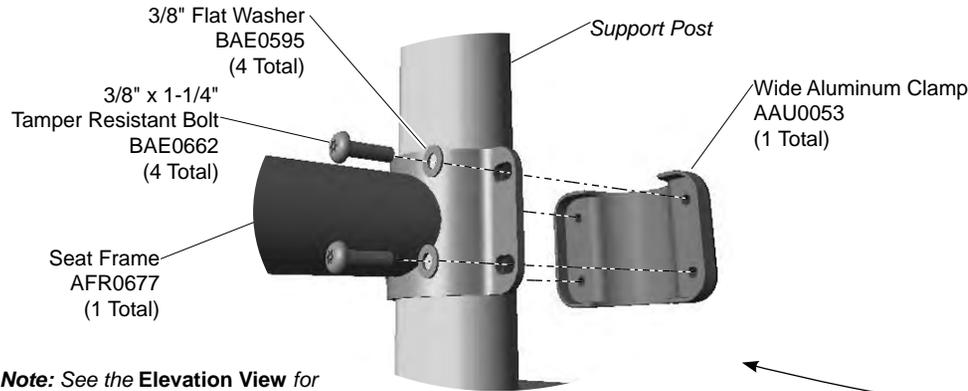
Top View



Elevation Views

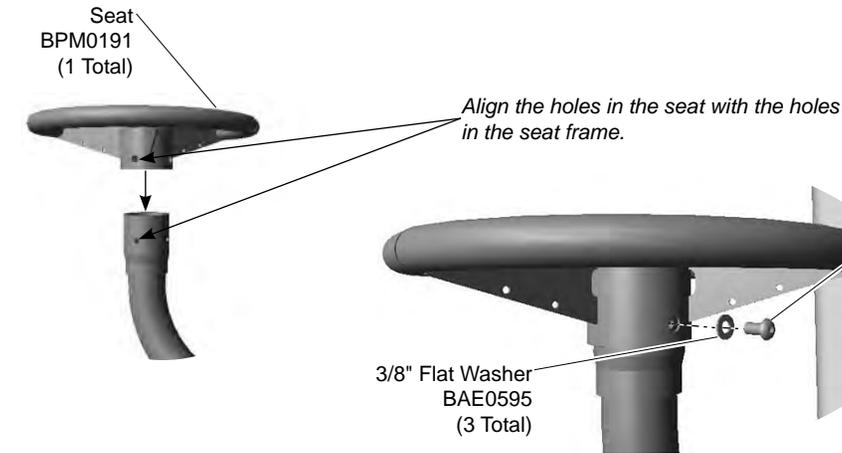
Installation Instructions

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



Detail A
Step 3

Attach the seat frame to the support post.



Detail B
Step 4

Attach the seat to the seat frame.



Detail C
Step 6

Secure the clamp to the support post.

Installation Instructions

Bill of Materials

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach the seat frame to the support post. See **Detail A**. Position the seat frame against the support post and attach as shown.

Note: See the **Elevation View** for the minimum and maximum heights that the seat may be mounted.

Step 4: Attach the seat to the seat frame. See **Detail B**. Place the seat on top of the seat frame, align the holes 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 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.

PM4578 - FAMILY FURNISHINGS - ANYWHERE SEAT

PART NO.	DESCRIPTION	QTY.
AAU0053	CLAMP - 5" DIA. x 4-1/2" WIDE ALUMINUM	1
AFR0677	FRAME - 5" SINGLE POST SEAT	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	7
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BPM0191	SEAT - 3.86" x 17.12" x 17.12"	1



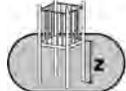
Installation Instructions
Playmakers® Model PM4646
Storefront Panel



Assembly View

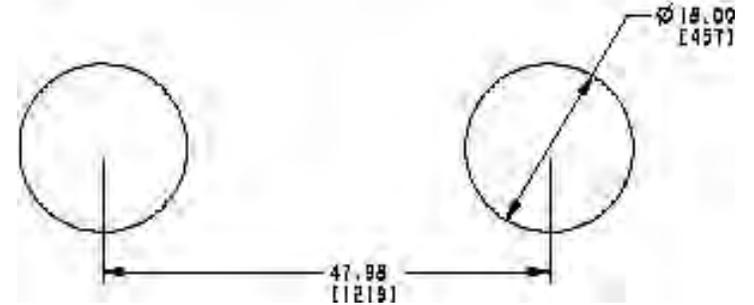
Installation Preparation

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

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

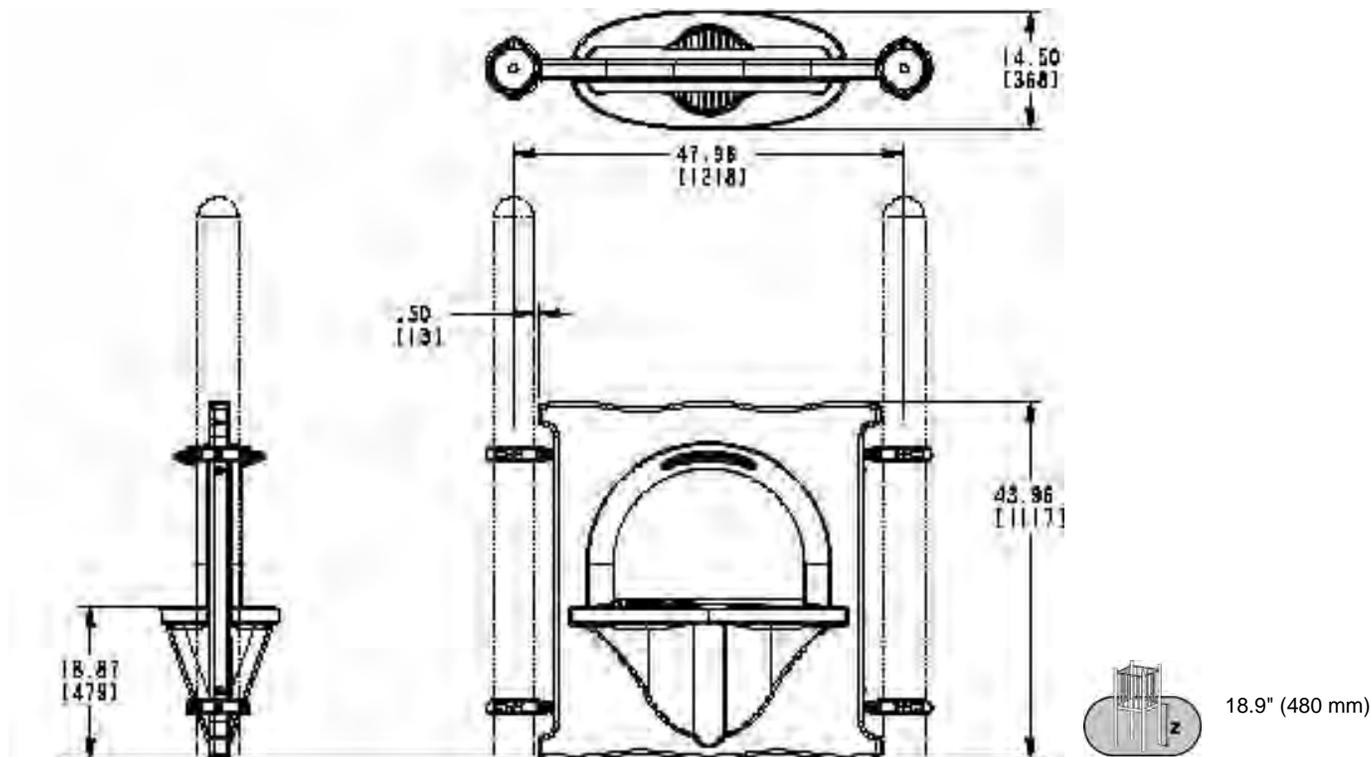
Installation Instructions

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



Footing Diagram

Top View

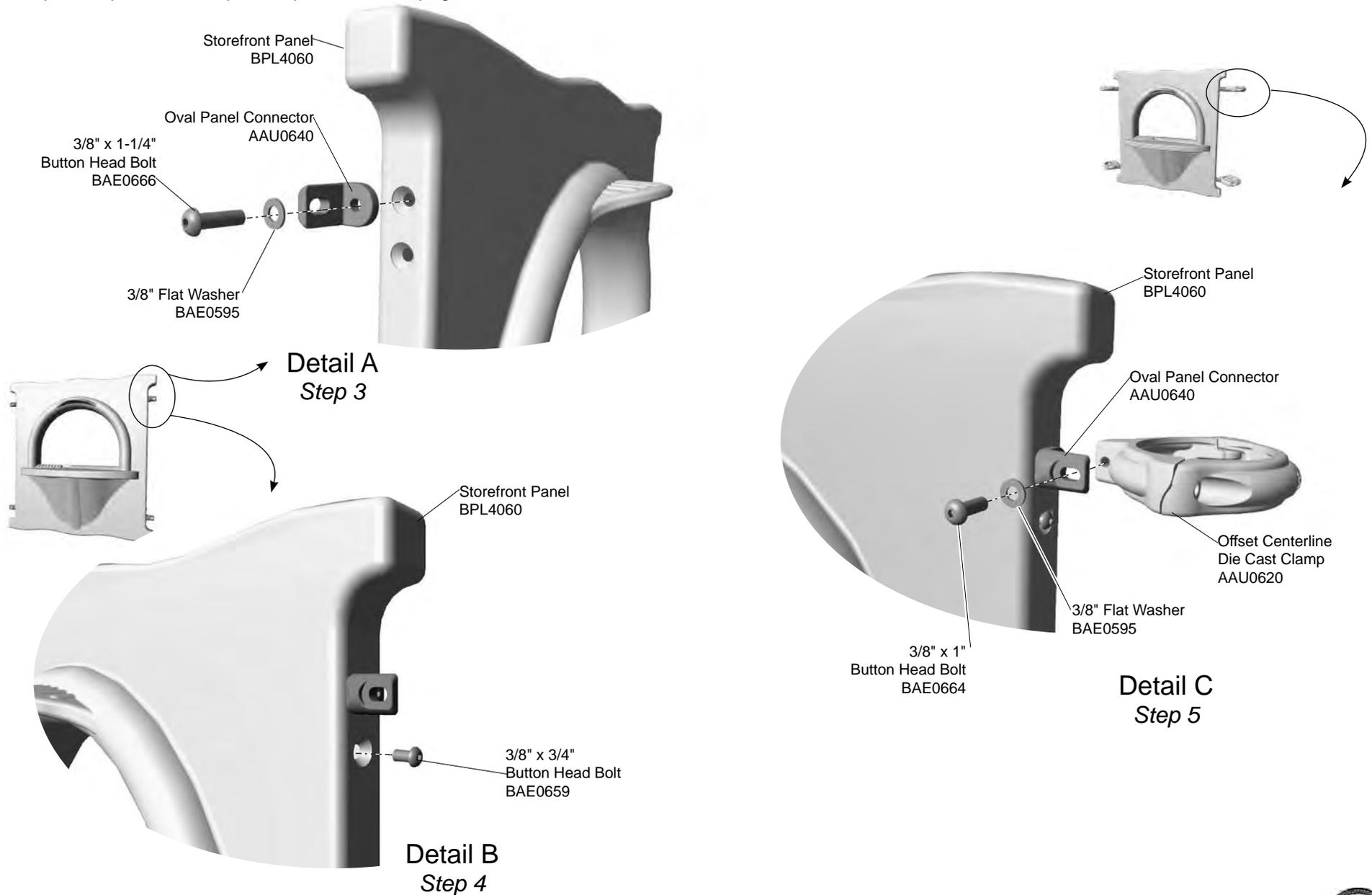


Elevation Views

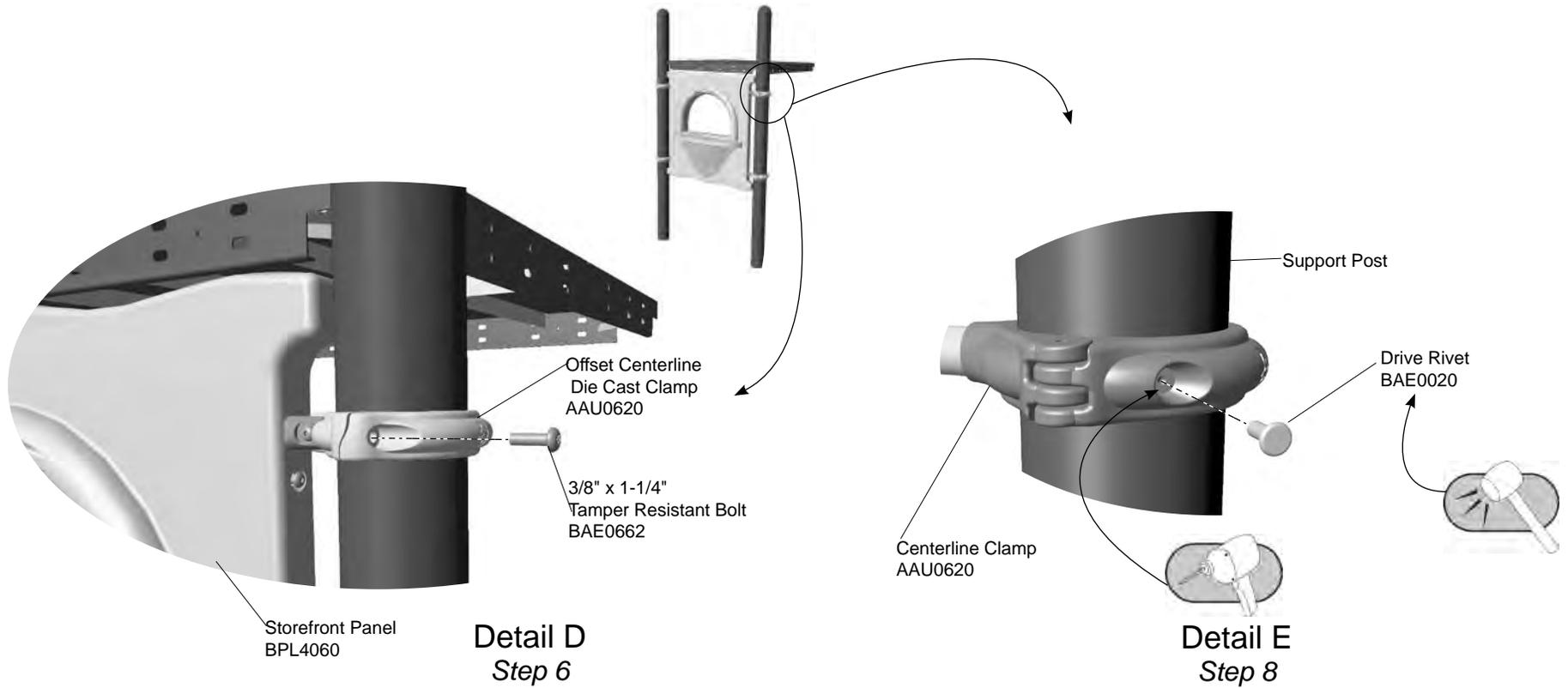


Installation Instructions

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



Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

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

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

Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Attach as shown.

Attach the clamps to the panel.

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

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

Attach the panel to the support posts.

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

Final Details.

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

Torque Specifications:

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

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

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

PM4646 - STOREFRONT PANEL

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


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**PLAYWORLD SYSTEMS®
OVERHEAD COMPONENTS
(SEE COMPONENT LISTING BELOW)**



WARNING

Attention: Owner

The Overhead Components are designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Overhead Component can result in serious accidents. The following rules for the use of the component must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. The components are designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of the users.
- Do not crawl on, sit on, stand on or jump off the top of the assembly.
- Users must move in same direction across the length of the top of the component assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.
- Avoid speed contests or trying to cover too large a distance in one move.

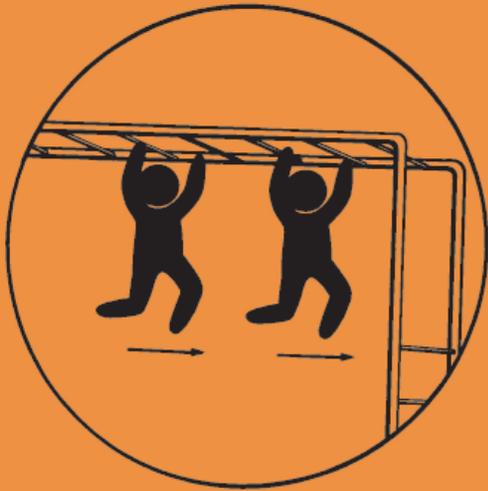
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Overhead Component in accordance with ASTM specification F1292 appropriate for the fall height of the Overhead Component .
- Review and familiarize warning document supplied with each Overhead Component shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it. Playworld Systems accepts NO responsibility for improper use.

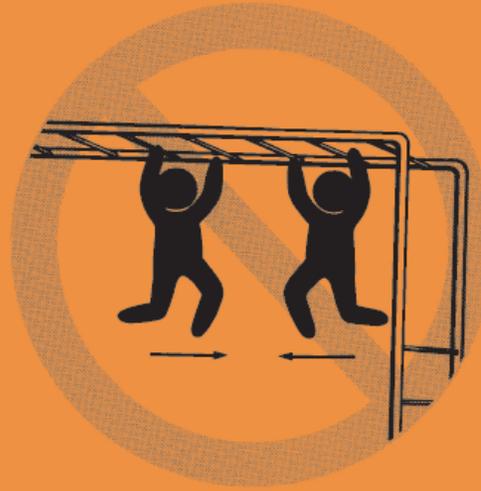
Overhead Components include:

- Horizontal Ladders
- Horizontal Hand Over Hand Ladders
- Horizontal Loop Rung Ladders
- Under Catwalk Hand Over Hand
- Under Catwalk Loop Rung Ladder
- Sky Link
- Sky Arch

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Use When Hand Rungs Are Wet



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

Overhead Component shown is for example only. May not be the component ordered.



Assembly View

Installation Instructions

Playmakers® Model PM5780

6 ft. (1829 mm) Horizontal Loop Ladder

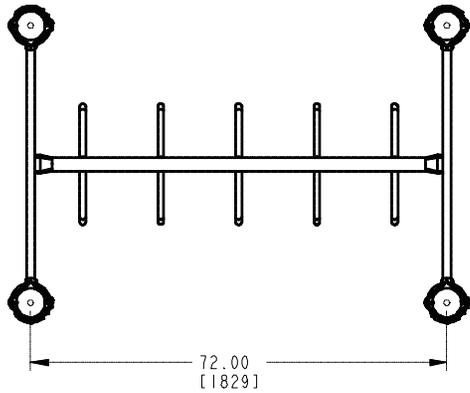
Installation Preparation

Recommended Crew: Three (3) adults
 Installation Time: 1 man-hour
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

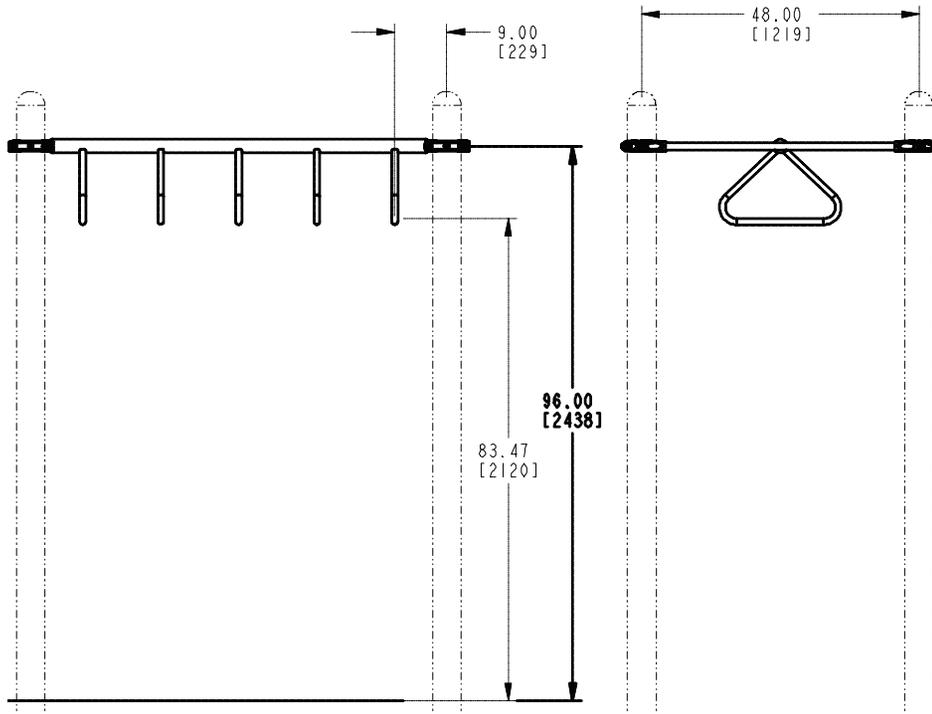
ICON KEY			
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

Top View



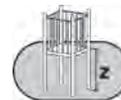
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views

Notes:

- ASTM/CSA: Hand-gripping component bars should be a maximum of 84" (2135 mm) above the protective surfacing.
- Height of hand-gripping component bars may vary due to platform height.

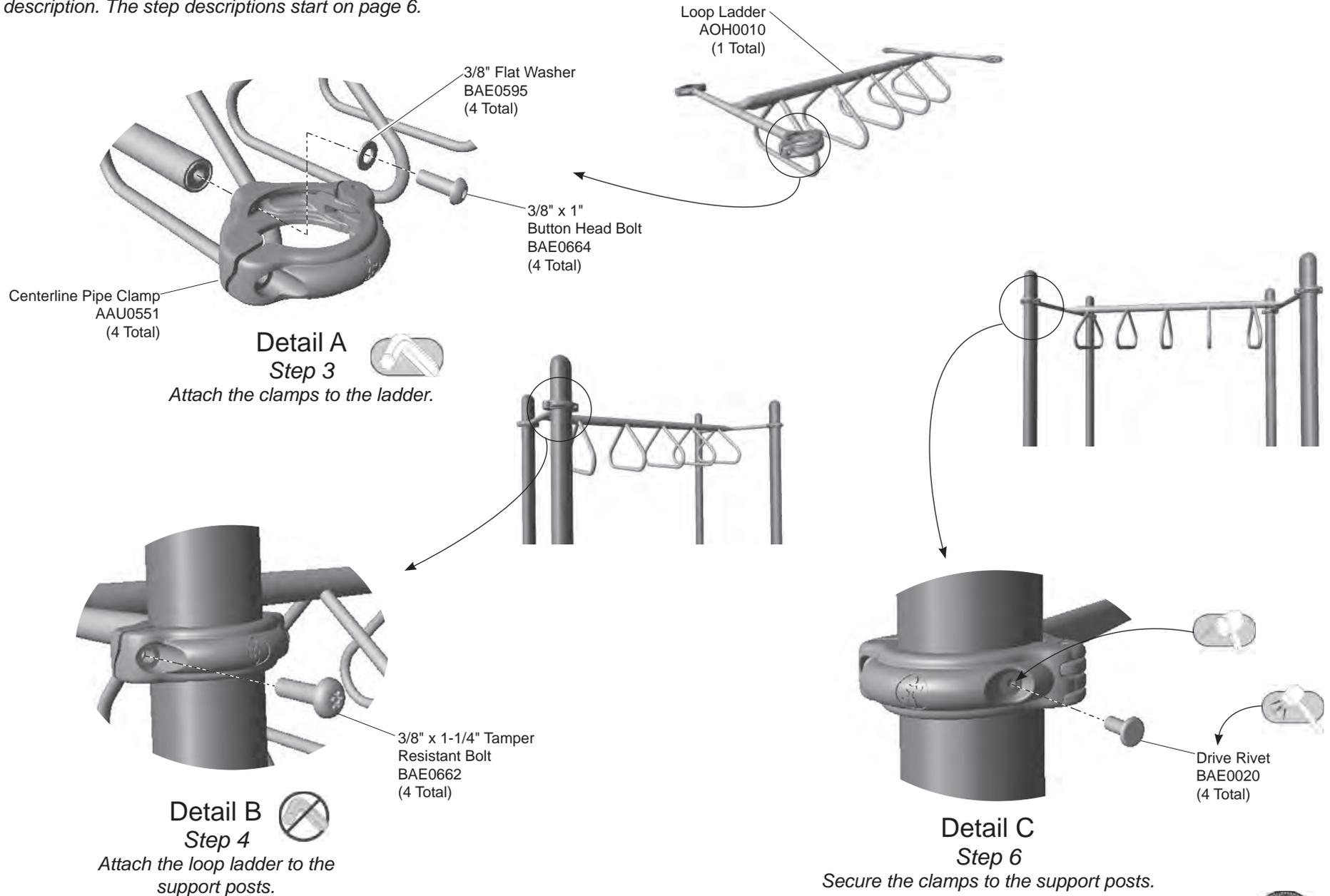


Critical Fall Height:
 ASTM F1487: 96" (2438 mm)
 CSA-Z614: 96" (2438 mm)
 EN1176: 83" (2120 mm)
 (Maximum 84" - 2135 mm)



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

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 clamps to the ladder. See **Detail A**. Position each clamp against an open end of the ladder rails with the hinges to the inside and attach as shown. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Step 4: Attach the loop ladder to the support posts. See **Detail B**. With adequate manpower, position the ladder between the supports posts, and attach as shown at the height shown in the **Elevation View**.

Note: Make sure to reference the **Notes** on the **Elevation View** page.

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 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.



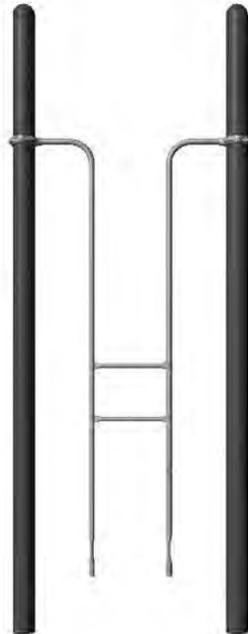
PM5780 - 6 ft. (1829 mm) HORIZONTAL LOOP LADDER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AOH0010	LADDER - 41" x 72" LOOP	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4

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Assembly View (representative model)

Model	Deck Height
ZZPM5950	12" (305 mm)
ZZPM5960	24" (610 mm)
ZZPM5970	36" (915 mm)

Installation Instructions

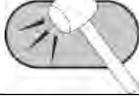
Playmakers[®] Models PM5950,
PM5960, and PM5970

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

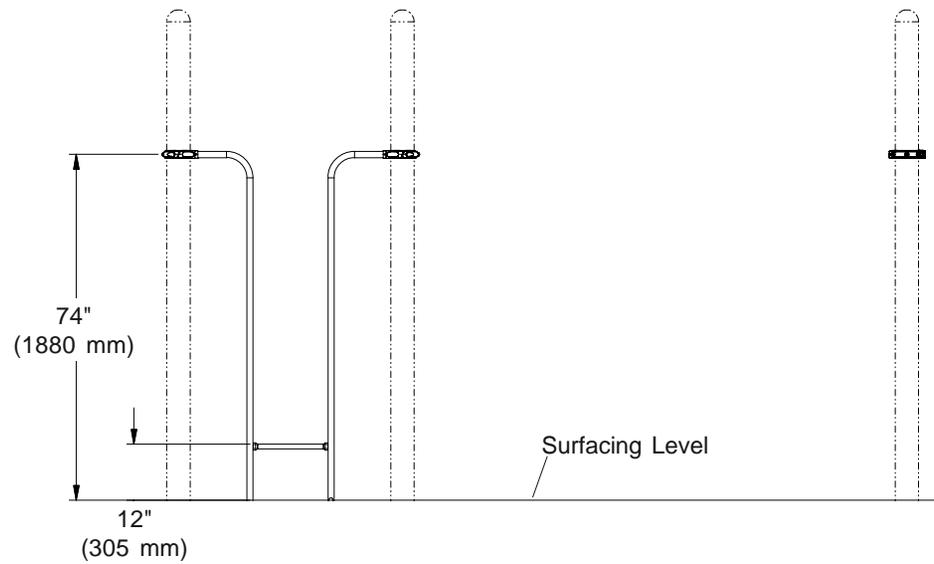
Installation Preparation

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

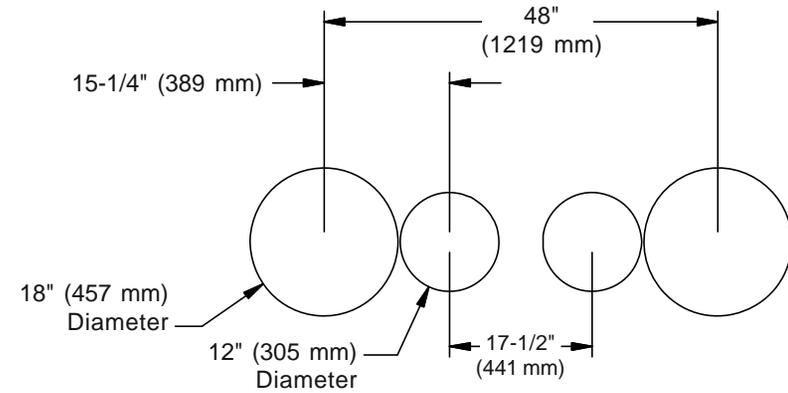
ICON KEY

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

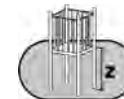
Installation Instructions



Elevation View



Footing Diagram
All Models



12" (305 mm)

Elevation Views
PM5950

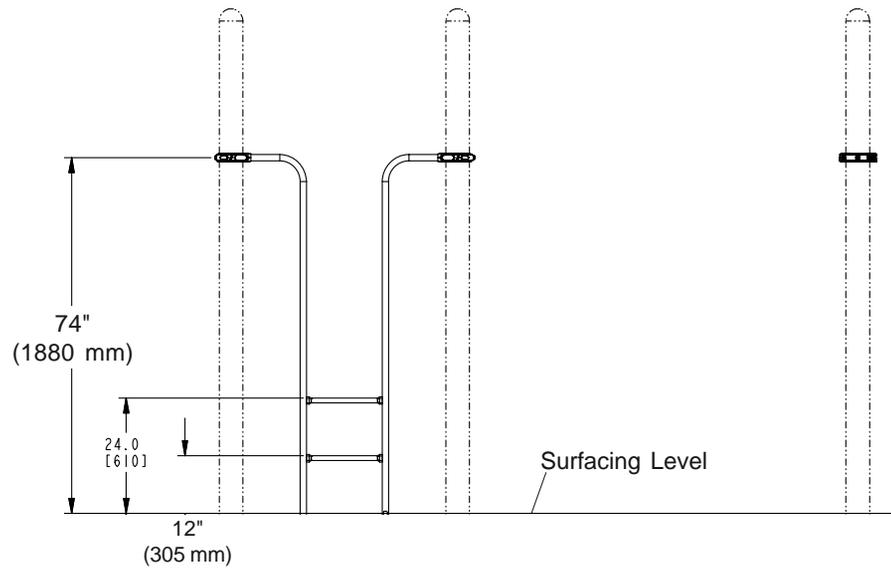


Installation Instructions

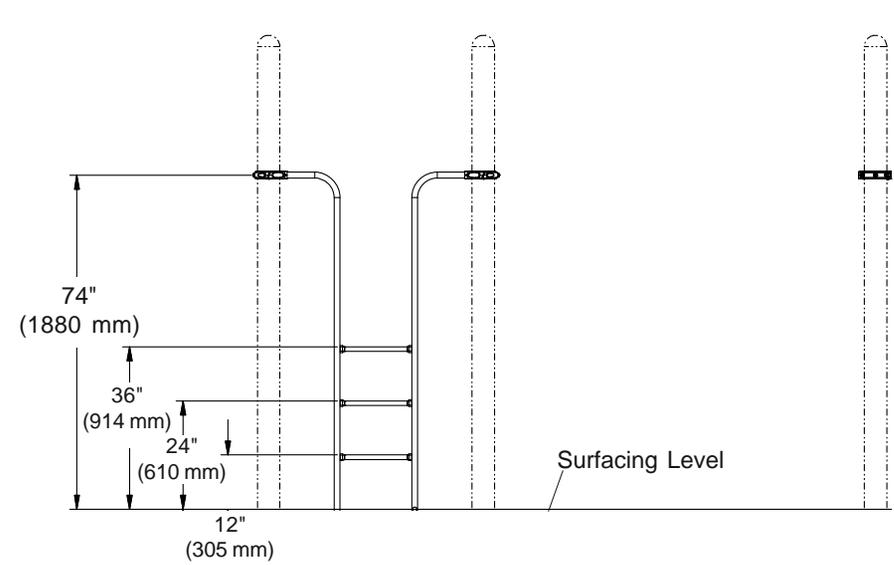
Top View



Top View



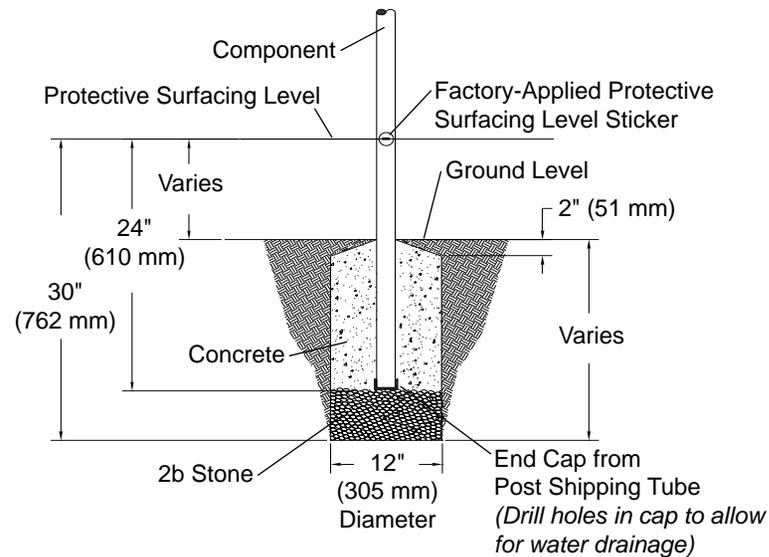
Elevation Views
PM5960



Elevation Views
PM5970



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.

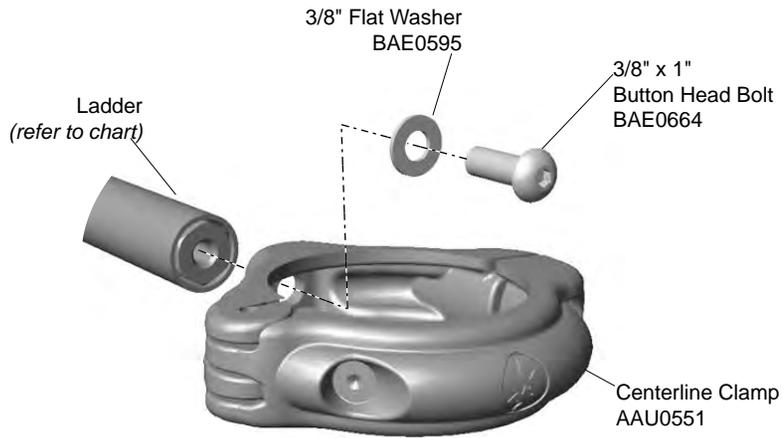
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- 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.

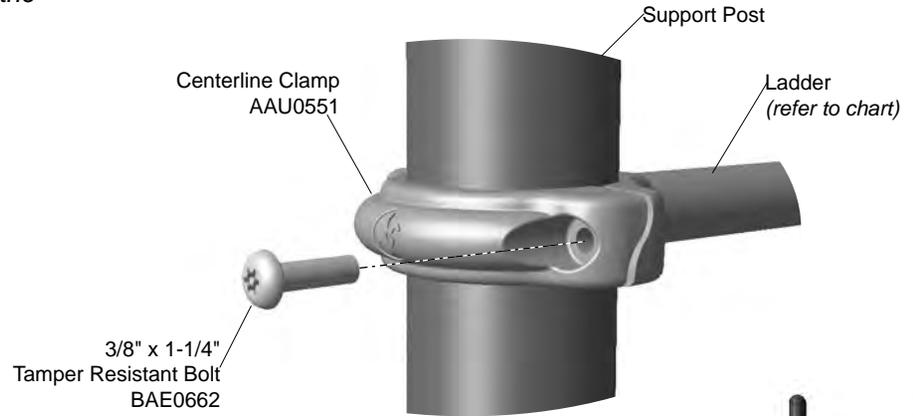
Installation Instructions

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

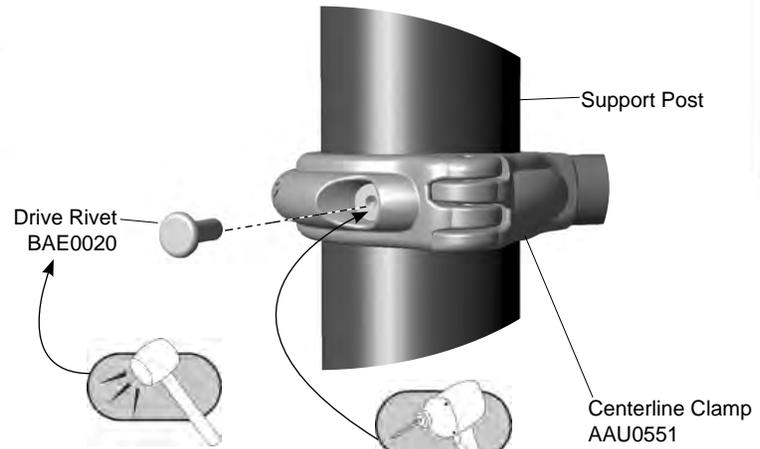


Detail A
Step 4

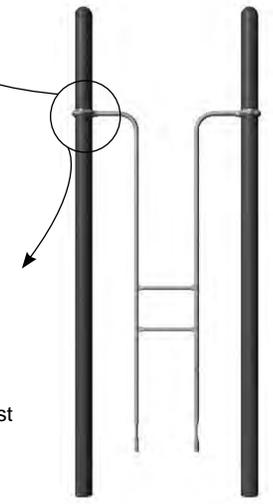
Model	Ladder Part Number
ZZPM5950	ACL0107
ZZPM5960	ACL0109
ZZPM5970	ACL0111



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: 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 access ladder.

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

Attach the clamps to support posts.

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

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

Final Details.

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

Torque Specifications:

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

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

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



PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

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

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2



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Assembly View (representative model)

Installation Instructions

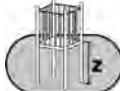
Playmakers® Models PM6979 & PM6986-PM6989

Inclined Cliff Hanger

48" (1219 mm), 60" (1524 mm),
72" (1829 mm), 84" (2134 mm)
& 96" (2438 mm) Deck Heights

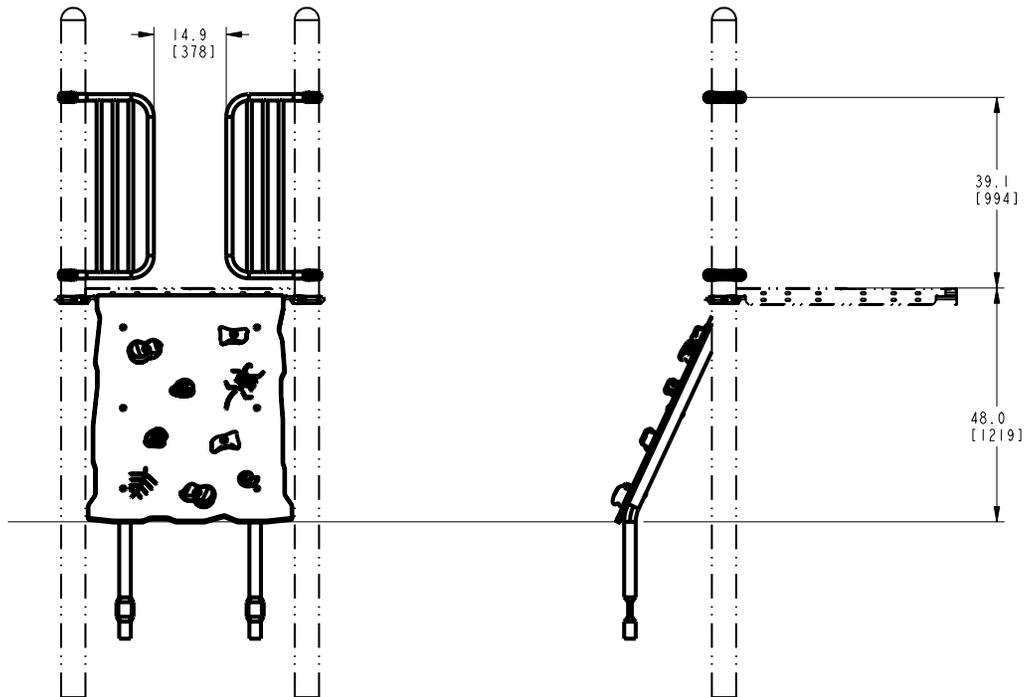
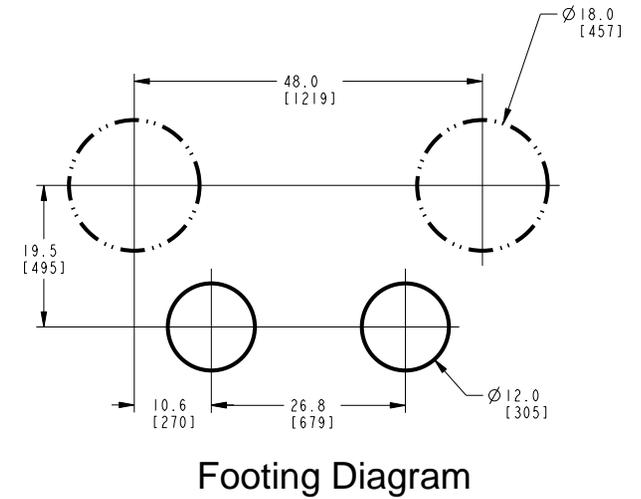
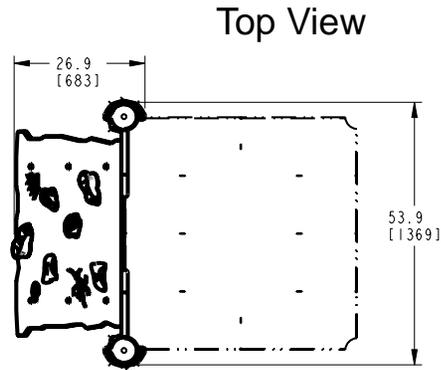
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.06 cubic yard (0,05 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 48"-60": ASTM/CSA: 2-12, EN: 2-14
 60"-96": ASTM/CSA: 5-12, EN: 6-14

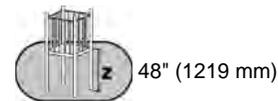
ICON KEY			
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

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

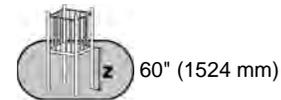
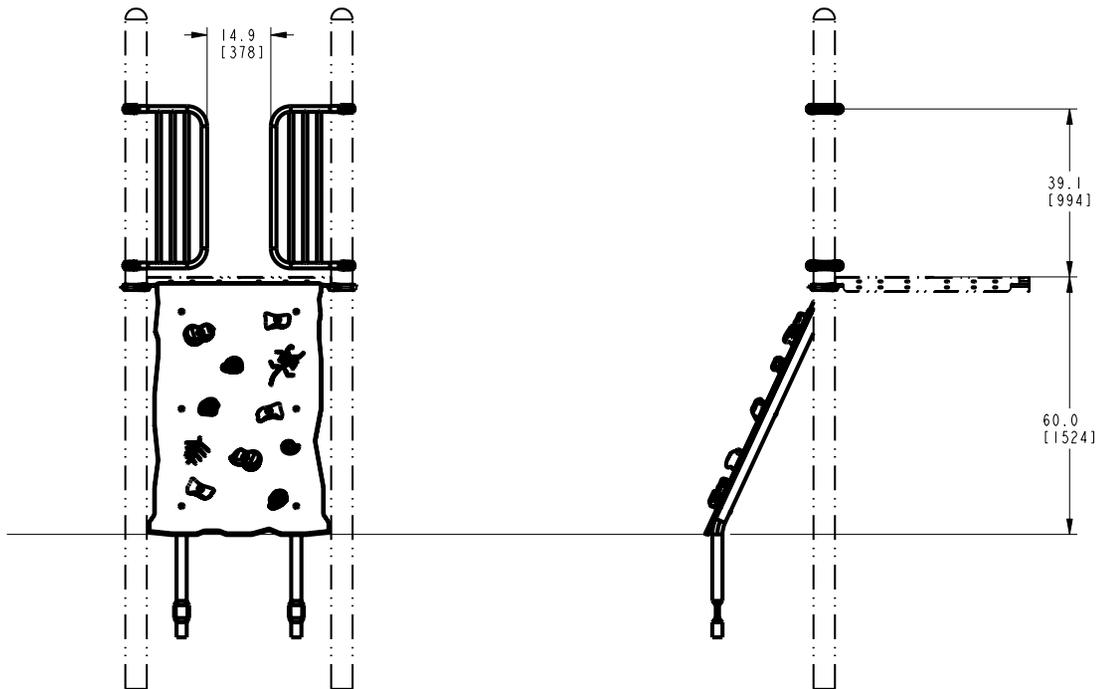
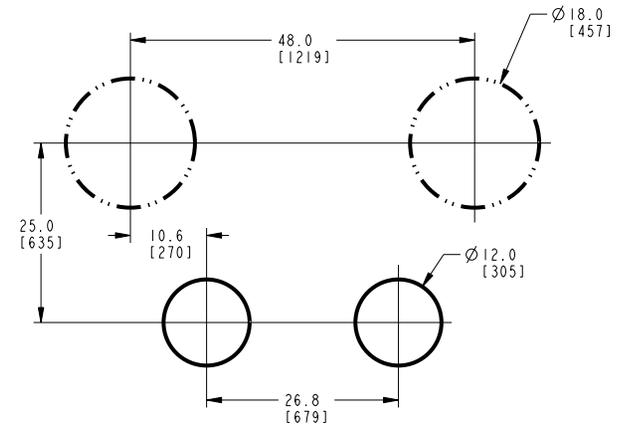
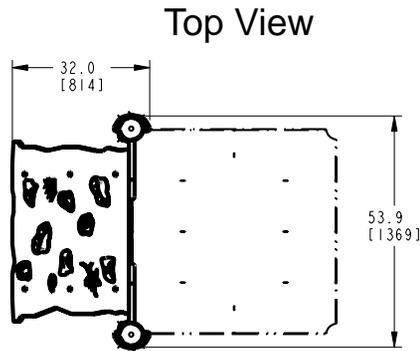


Elevation Views - PM6987 - 48" (1220 mm) Deck



Installation Instructions

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

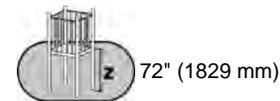
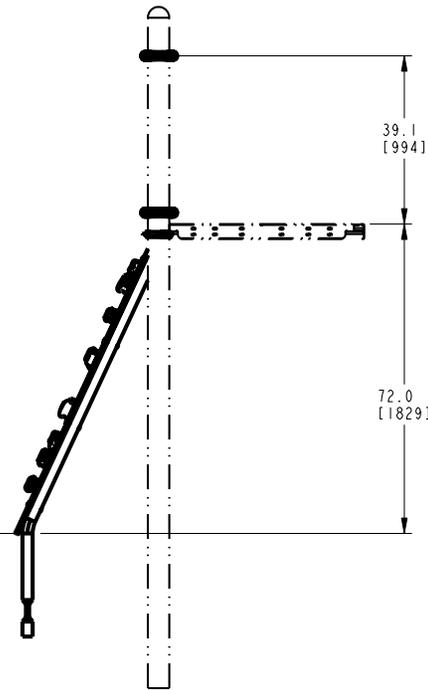
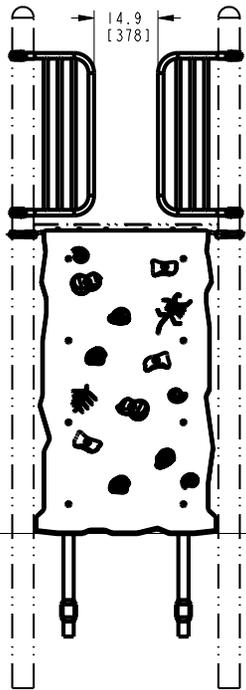
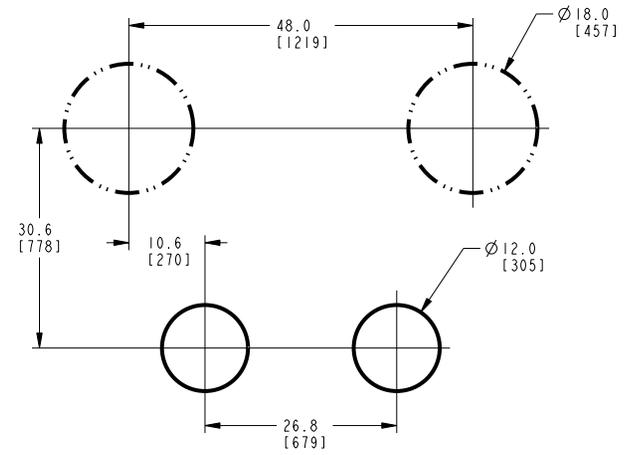
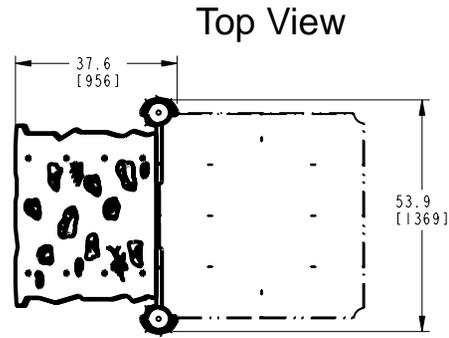


Elevation Views - PM6988 - 60" (1524 mm) Deck



Installation Instructions

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

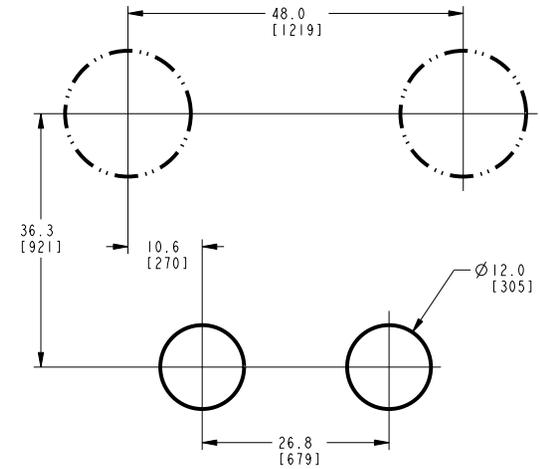
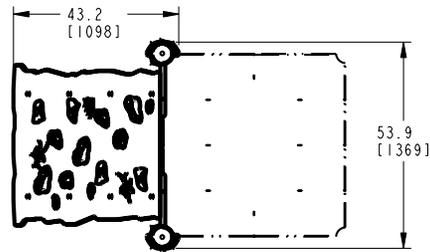


Elevation Views - PM6989 - 72" (1829 mm) Deck

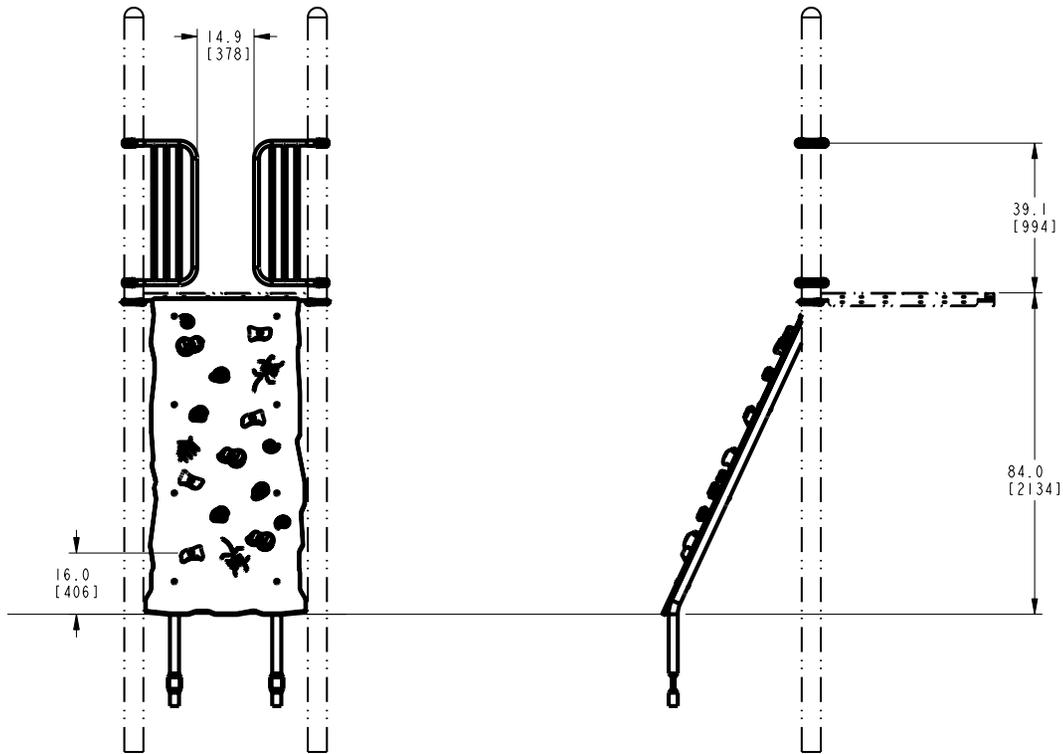
Installation Instructions

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

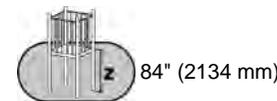
Top View



Footing Diagram



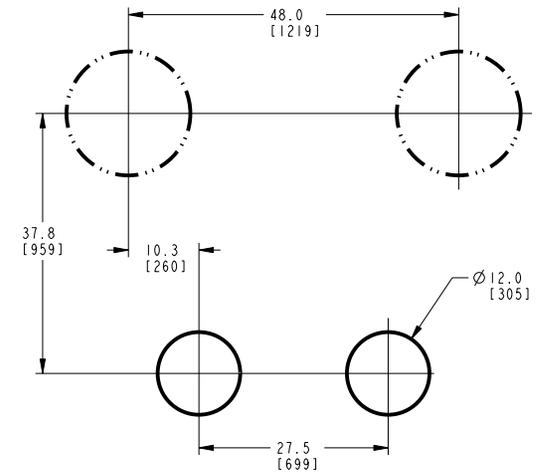
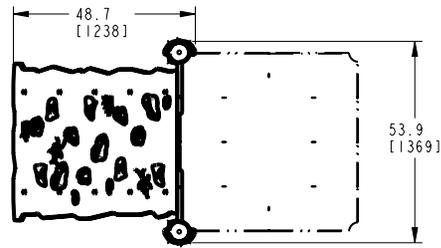
Elevation Views - PM6986 - 84" (2134 mm) Deck



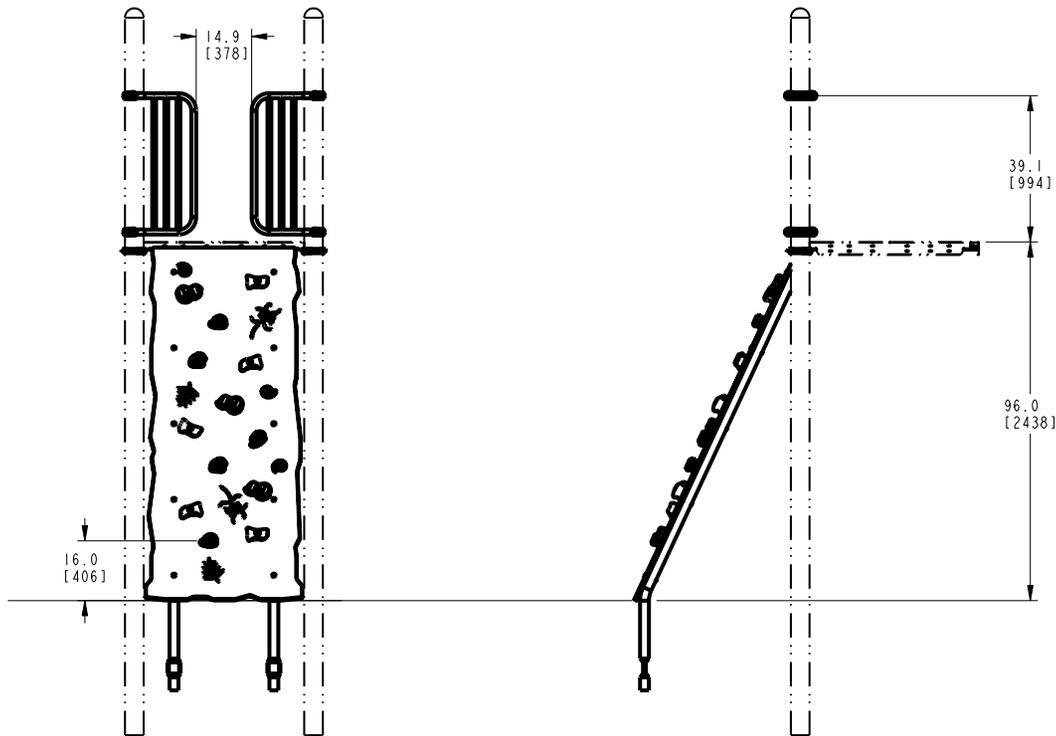
Installation Instructions

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

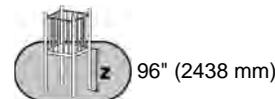
Top View



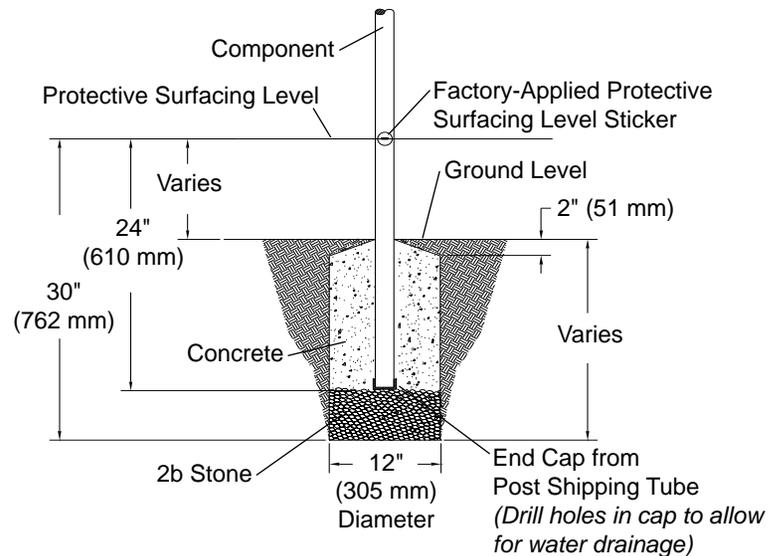
Footing Diagram



Elevation Views - PM6979 - 96" (2438 mm) Deck



Installation Instructions



Component Footing Detail (ASTM/CSA)

FOOTING NOTES

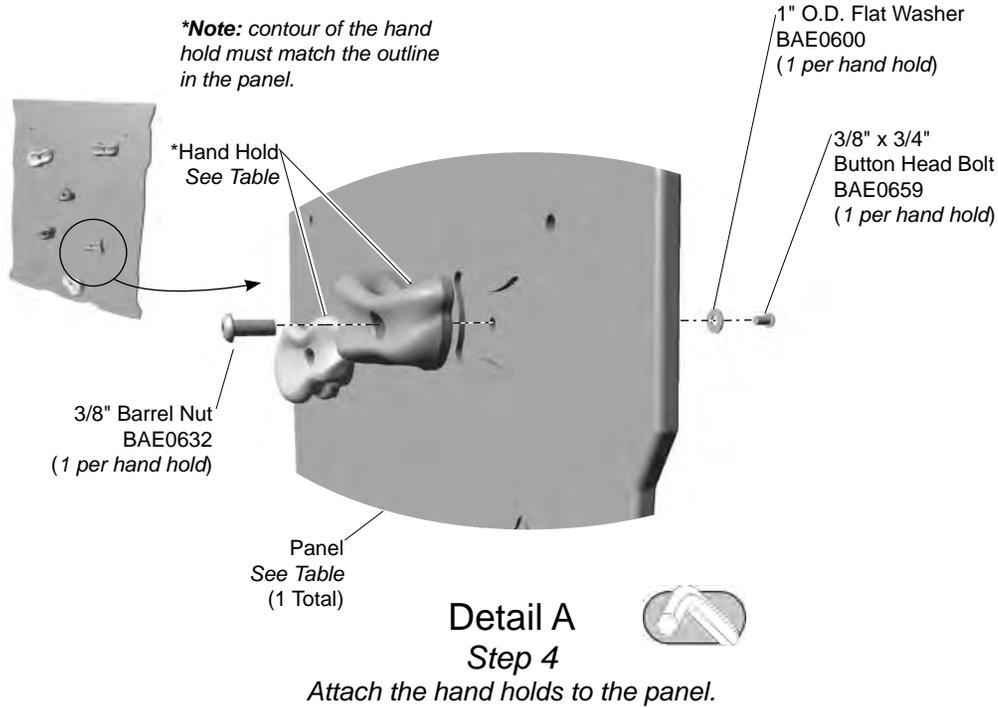
- Component footing depth equals 30 in. (762 mm) less the depth of the protective surfacing material. The post is designed to have 12" (305 mm) in concrete.

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

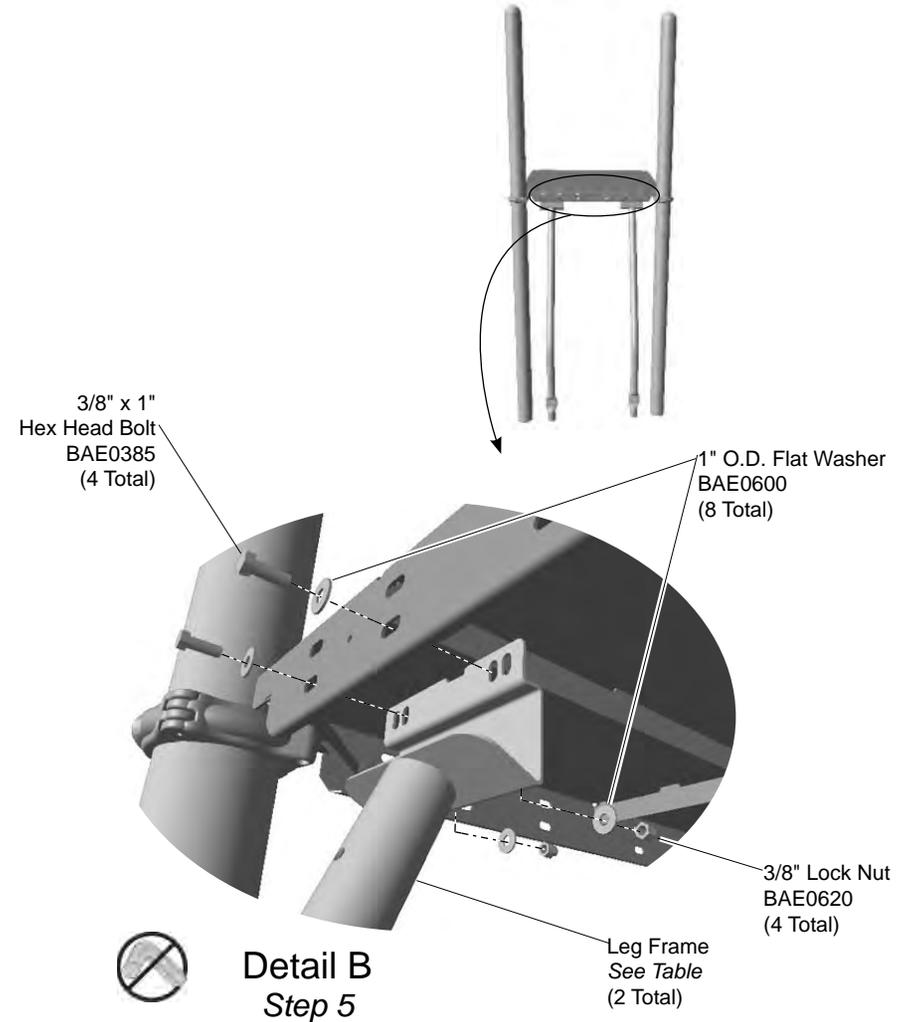
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing 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 10.

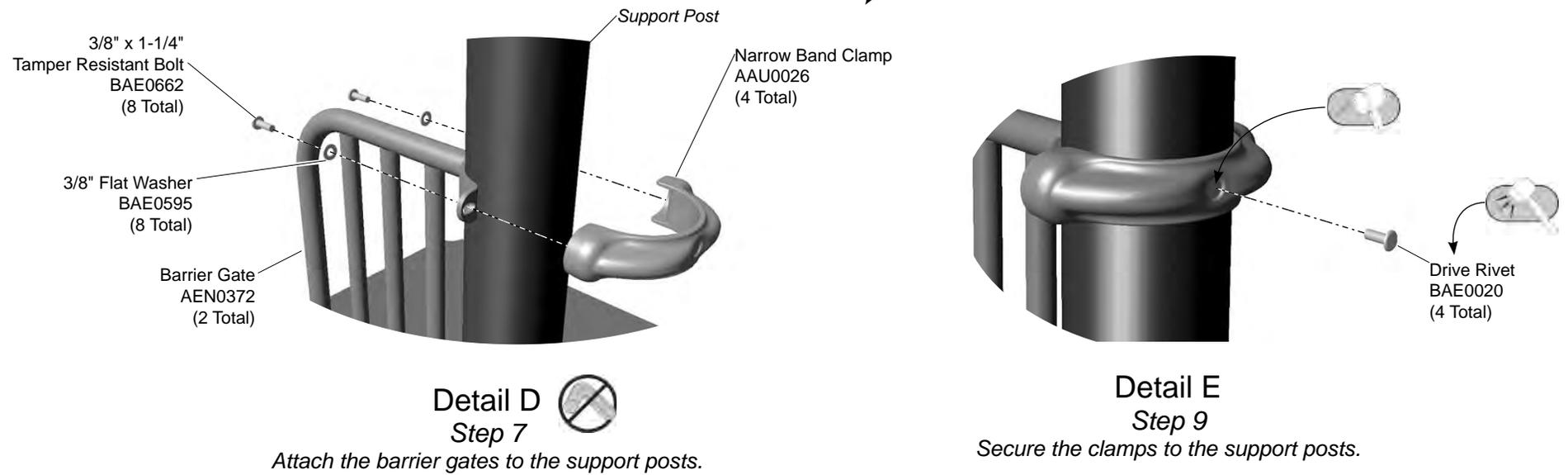
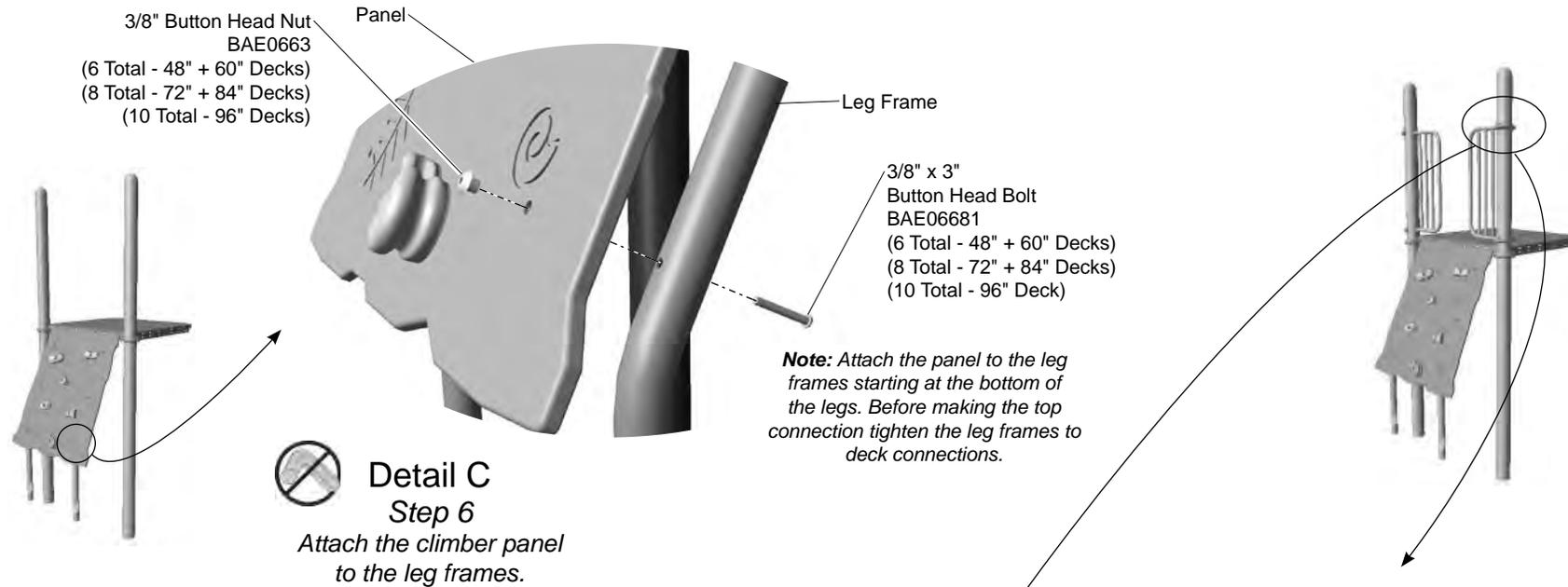


Model	PM6987	PM6988	PM6989	PM6986	PM6979
No. of Small Hand Holds (AAU0067)	2	3	4	4	5
No. of Medium Hand Holds (AAU0068)	2	3	3	4	5
No. of Large Hand Holds (AAU0069)	2	2	2	3	3
Panel Number	BFC3263	BFC3265	BFC3267	BFC3269	BFC3271



Model	PM6987	PM6988	PM6989	PM6986	PM6979
Leg Frame Part Number	AFR0956	AFR0958	AFR0960	AFR0962	AFR0964

Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the **Guidelines** at the beginning of this instruction book and on page 7 of this installation document.

Step 4: Attach the hand holds to the panel. See **Detail A**. Position each hand hold against a corresponding cutout in the panel and attach as shown. Fully tighten the hardware according to tightening torque specifications to pull the hand hold into the panel.

Torque Specifications:

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

Step 5: Attach the leg frames to the deck. See **Detail B**. Place the frame legs in their footings with the mounting bracket under the deck and align the lower holes. Use the slots indicated on each bracket and attach as shown.

Step 6: Attach the panel to the leg frames. See **Detail C**. Place the panel with the wider part at the bottom and align the side holes with the holes in the leg frames. Attach as shown.

Note: *Attach the panel to the leg frames starting at the bottom of the legs. Before making the top connection tighten the leg frames to deck connections.*

Step 7: Attach the barrier gates to the support posts. See **Detail D**. Place each gate against the post, and align a clamp with each gate band. Attach as shown. Leave the connections loose. Both gates should be mounted at the same height directly over the deck. The bottom of the gates must be less than 3.5" (89 mm) from the deck surface to prevent any entrapment issues.

Final Details.

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

Torque Specifications:

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

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

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

Step 10: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.



PM6987 - 48" (1219 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	2
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0956	FRAME - 2.38" O.D. x 70.27" w/BRACKET	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC3263	SHEET - .75" x 42.00" x 51.25"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6988 - 60" (1524 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	3
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0958	FRAME - 2.38" O.D. x 82.27" w/BRACKET	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC3265	SHEET - .75" X 42.00" x 64.50"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



PM6989 - 72" (1829 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	4
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0960	FRAME - 2.38" O.D. x 94.27" w/BRACKET	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	9
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	9
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC3267	SHEET - .75" x 42.00" x 77.75"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6986 - 84" (2134 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	4
AAU0068	HANDLE - MEDIUM	4
AAU0069	HANDLE - LARGE	3
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0962	FRAME - 2.38" O.D. x 106.27" w/BRACKET	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	19
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	11
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	11
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC3269	SHEET - .75" x 42.00" x 91.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



PM6979 - 96" (2438 mm) INCLINED CLIFF HANGER

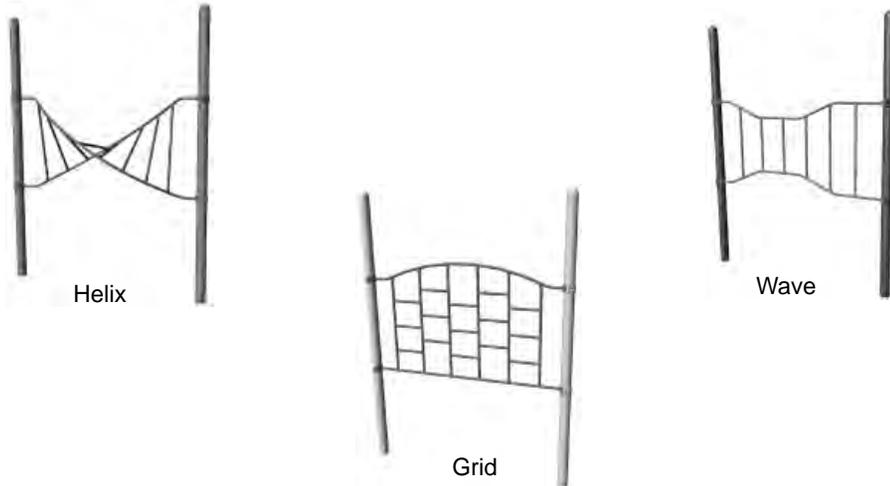
PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	5
AAU0068	HANDLE - MEDIUM	5
AAU0069	HANDLE - LARGE	3
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0964	FRAME - 2.38" O.D. x 118.27" w/BRACKET	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	21
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	13
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	13
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	10
BFC3271	SHEET - .75" x 42.00" x 104.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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®
Models PM8398, PM8399 & PM8408
Adventure Climbers

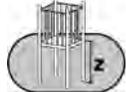


Assembly View

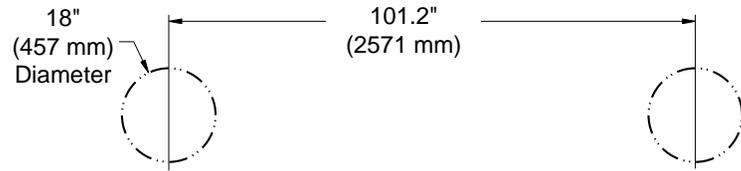
Models	Climber Name
ZZPM8398	Helix
ZZPM8399	Wave
ZZPM8408	Grid

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

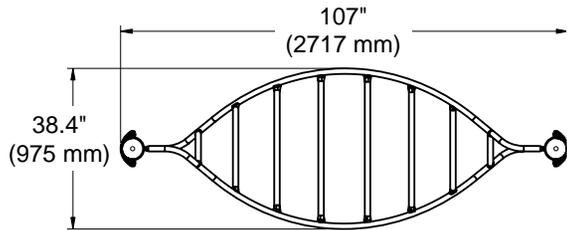
ICON KEY	
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	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Critical Fall Height
	Pour Concrete
	Dig Footing Holes

Installation Instructions

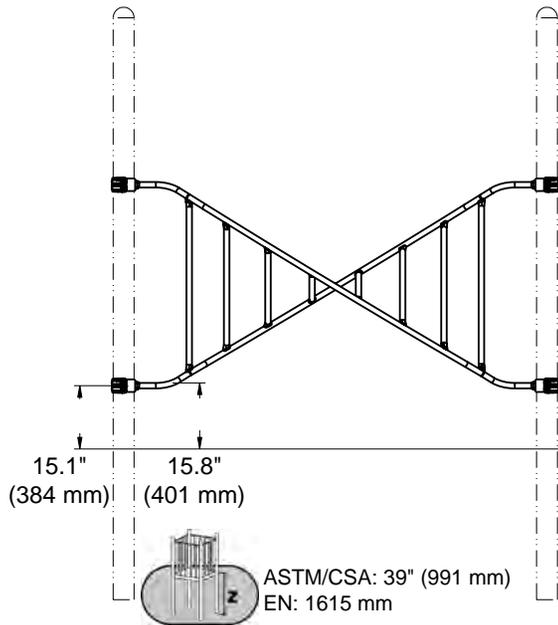
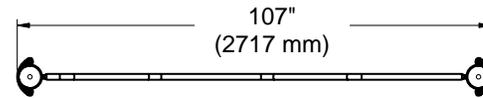


Footing Diagram
(All Models)

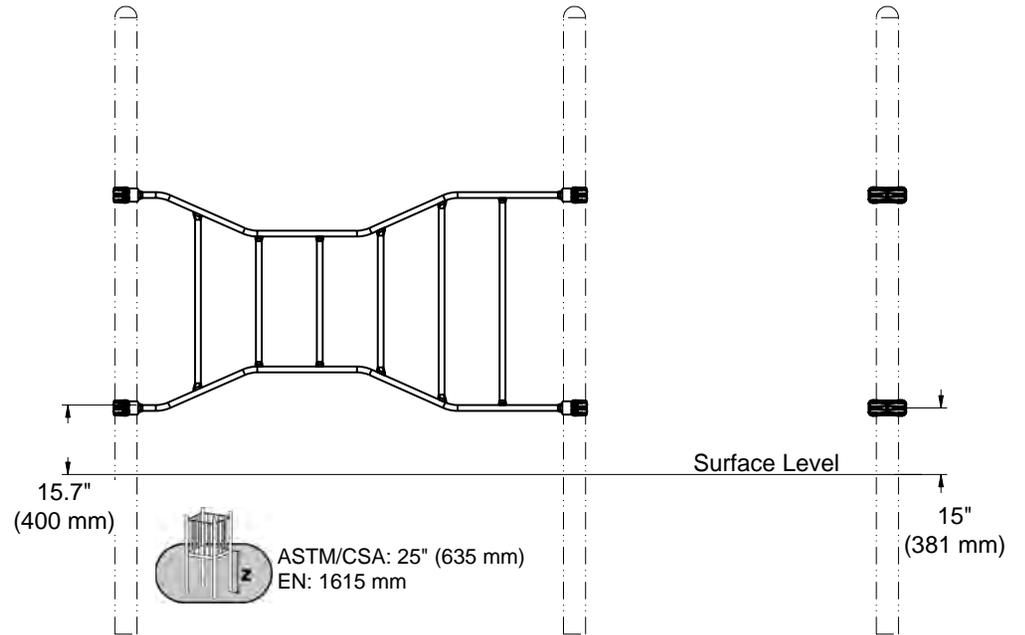
Top View



Top View



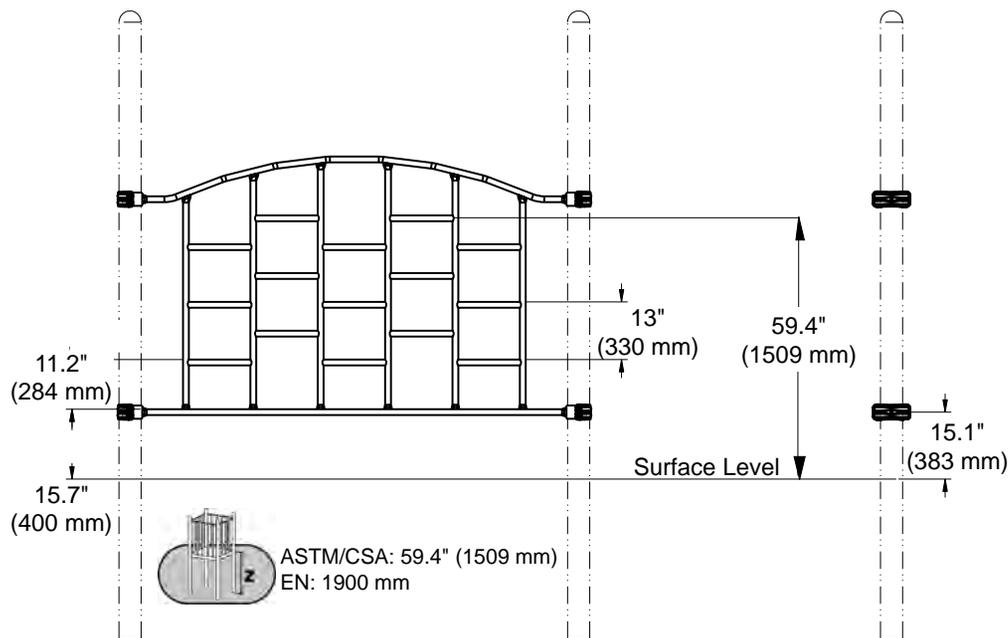
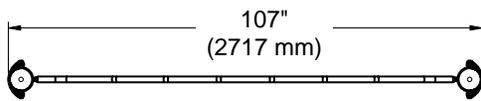
Elevation Views
ZZPM8398 - The Helix



Elevation Views
ZZPM8399 - The Wave

Installation Instructions

Top View

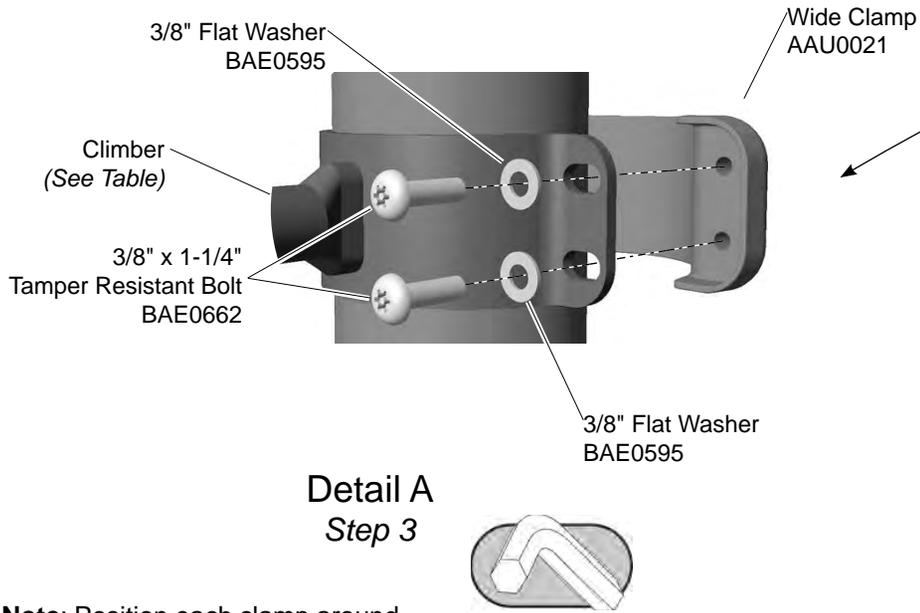


Elevation Views
ZZPM8408 - The Grid



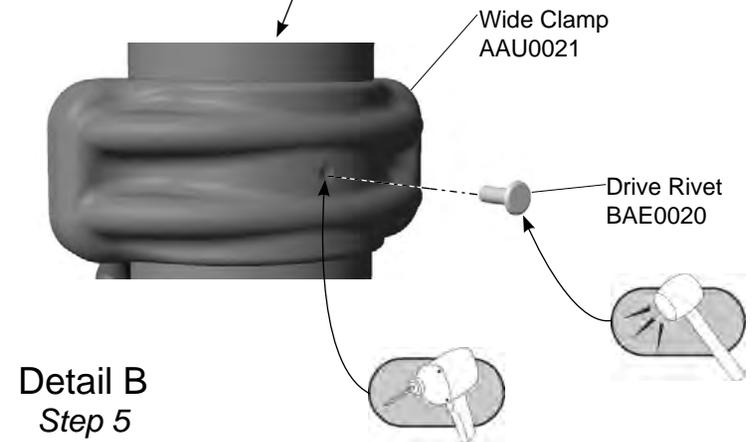
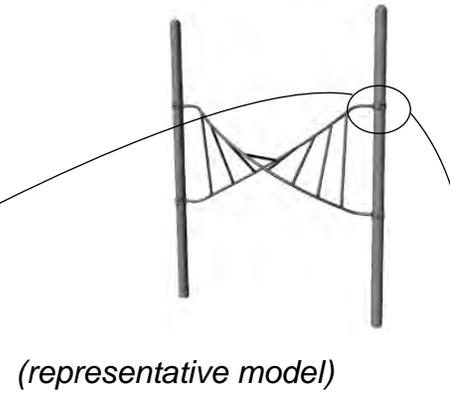
Installation Instructions

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



Note: Position each clamp around a support post at the heights indicated in the **Elevation View**.

Models	Climber Name	Climber Part Number
ZZPM8398	Helix	ACL0205
ZZPM8399	Wave	ACL0207
ZZPM8408	Grid	ACL0211



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware. Reference the master layout drawing for the component model and the location of the equipment.

Attach the climber to the support posts.

Step 3: Attach the climber to the support posts. See **Detail A** and the corresponding **Elevation View**. Select the appropriate climber, (4) four wide clamps, and the appropriate hardware. There are (8) eight connections. Position the climber between the post at the height indicated and attach as shown.

Final Details.

Step 4: Plumb and level the component. Ensure components are at the heights specified in the **Elevation Views**. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

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

Step 5: Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

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



PM8398 - ADVENTURE HELIX CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
ACL0205	CLIMBER - THE HELIX (PM)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	16

PM8399 - ADVENTURE WAVE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
ACL0207	CLIMBER - THE WAVE (PM)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	16

PM8408 - ADVENTURE GRID CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
ACL0211	CLIMBER - THE GRID (PM)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	16



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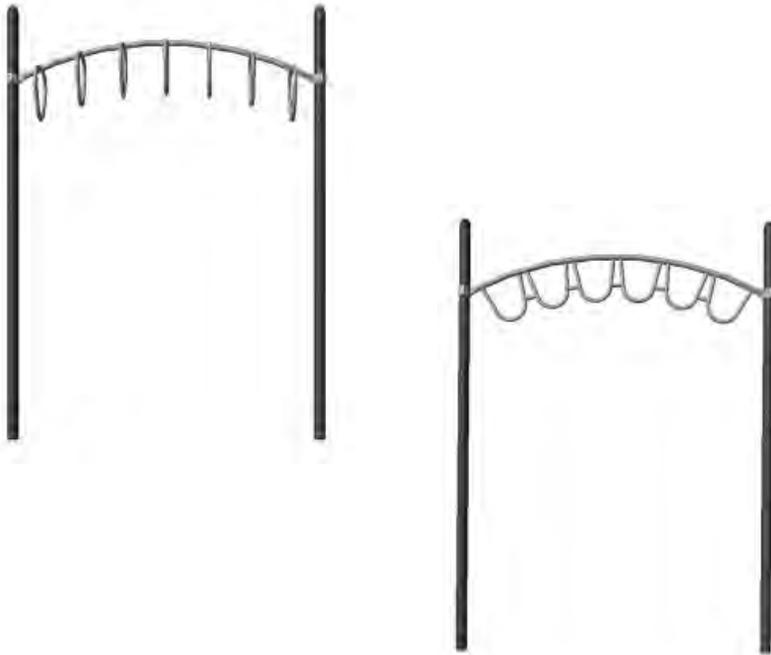
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
 1000 Buffalo Road • Lewisburg, PA 17837
www.playworld.com



Installation Instructions

Playmakers[®] Models PM8450 & PM8456

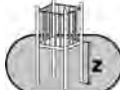
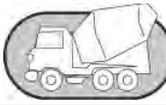
The Sky Link & The Sky Arch



Assembly View (representative model)

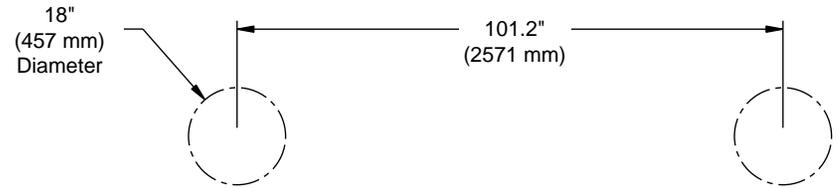
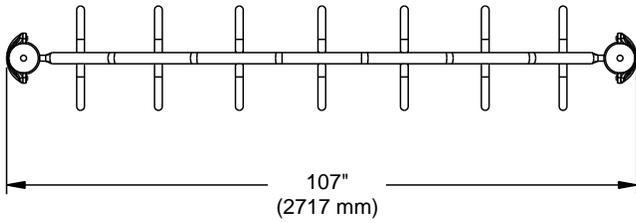
Installation Preparation

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

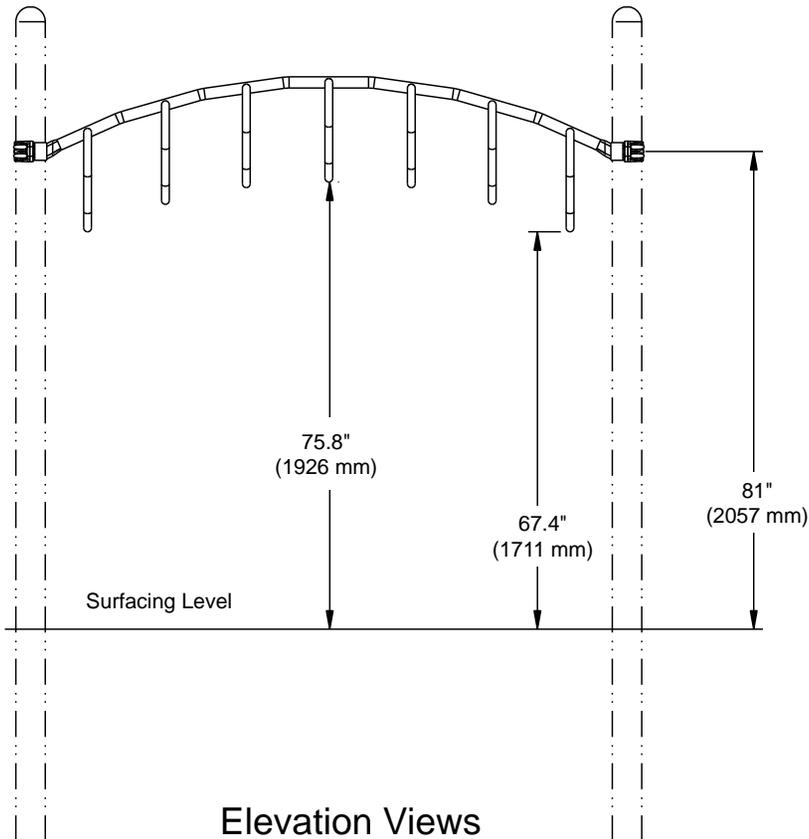
ICON KEY			
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

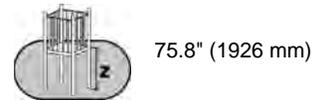
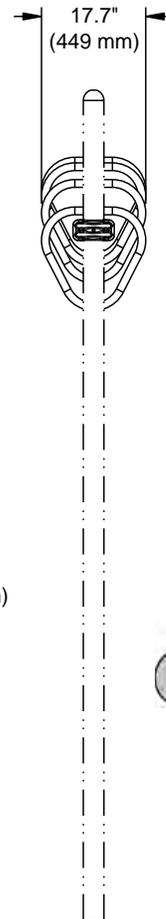
Top View



Footings Diagram Both Models

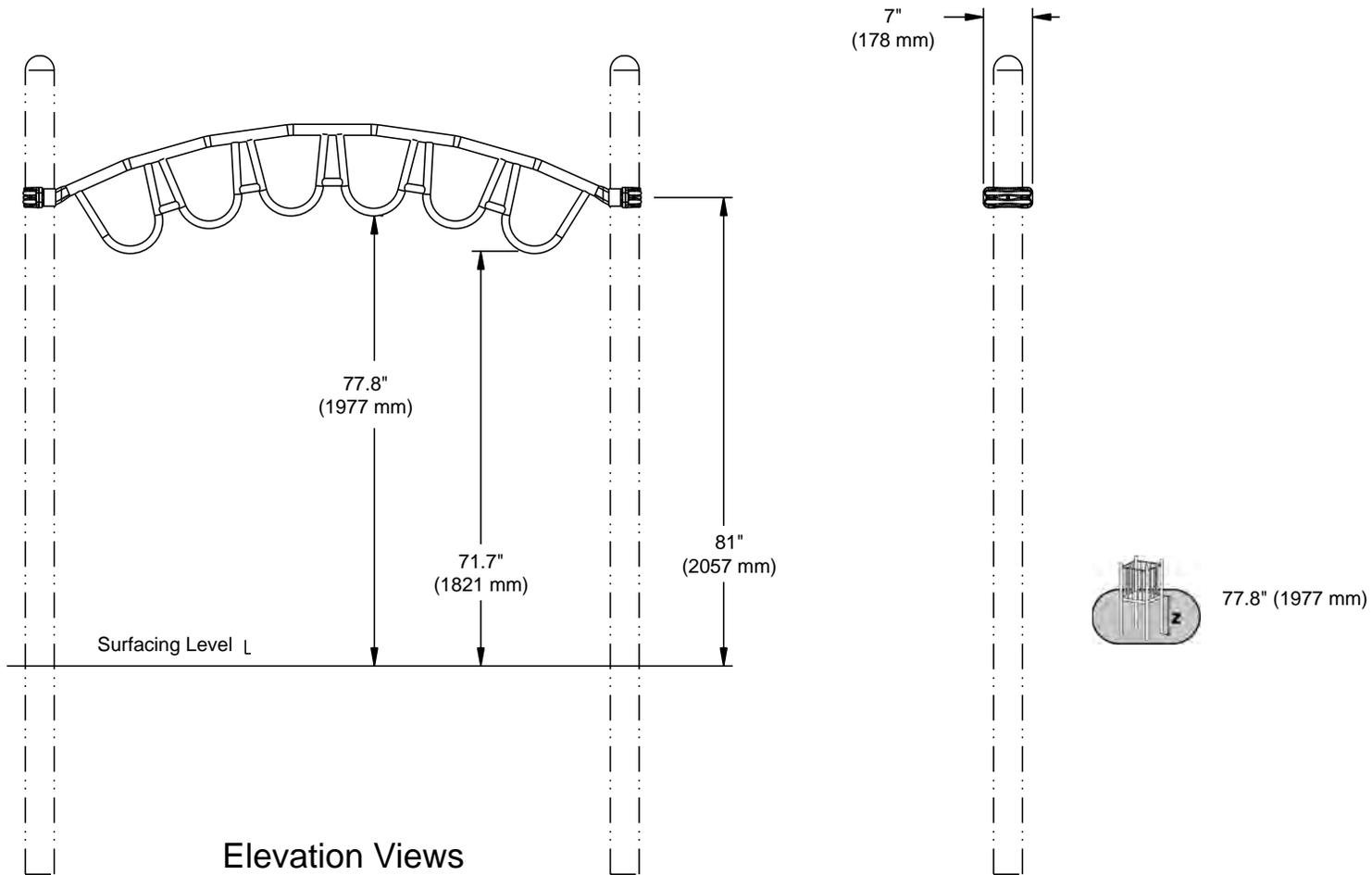
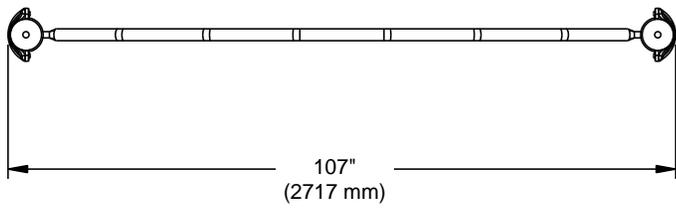


Elevation Views ZZPM8450



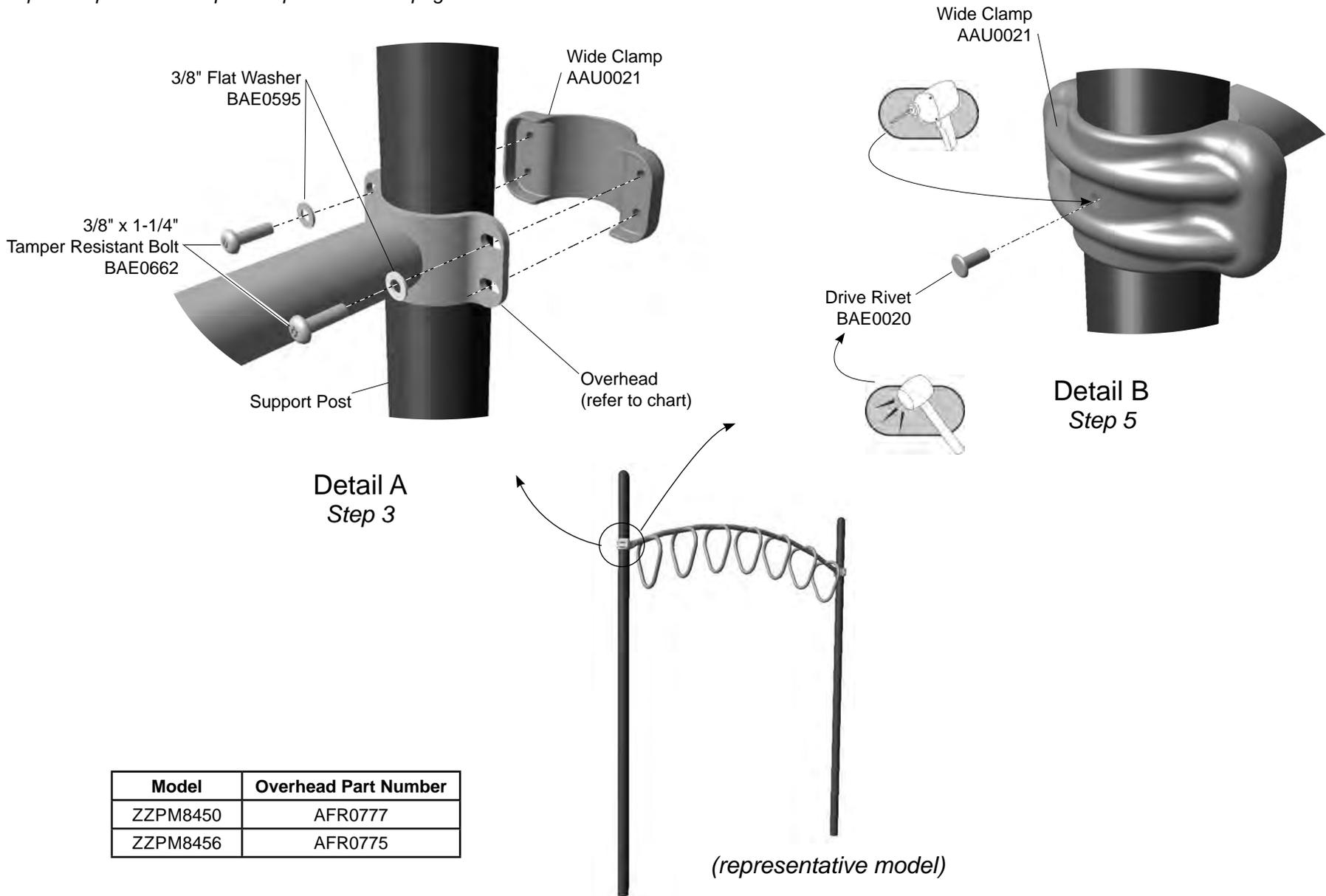
Installation Instructions

Top View



Installation Instructions

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



Model	Overhead Part Number
ZZPM8450	AFR0777
ZZPM8456	AFR0775



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the overhead to the support posts.

Step 3: See **Detail A**. Select the overhead, the clamp, and the appropriate hardware. There are (8) eight connections. Lift the overhead to the appropriate height. Apply a drop of loctite to the bolt threads and attach as shown.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

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

Step 5: Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

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



PM8450 - THE SKY LINK

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0777	OVERHEAD - ADVENTURE SERIES BACKBONE (PM)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8

PM8456 - THE SKY ARCH

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0775	OVERHEAD - ADVENTURE SERIES LOOP (PM)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8

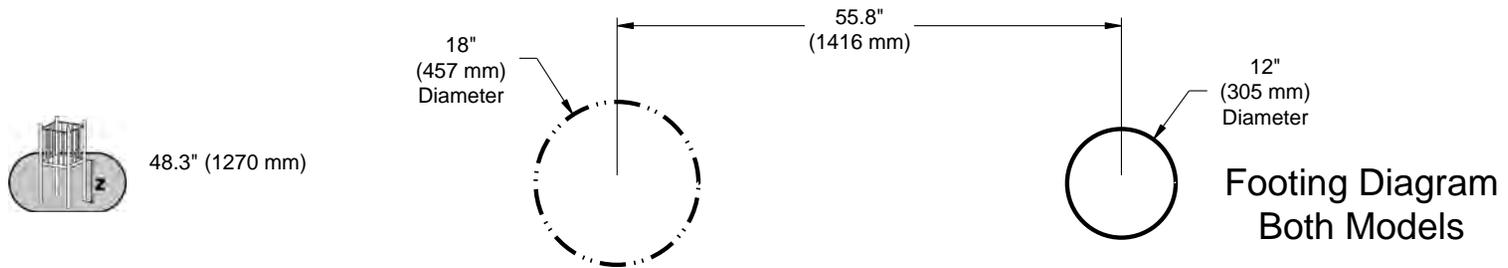
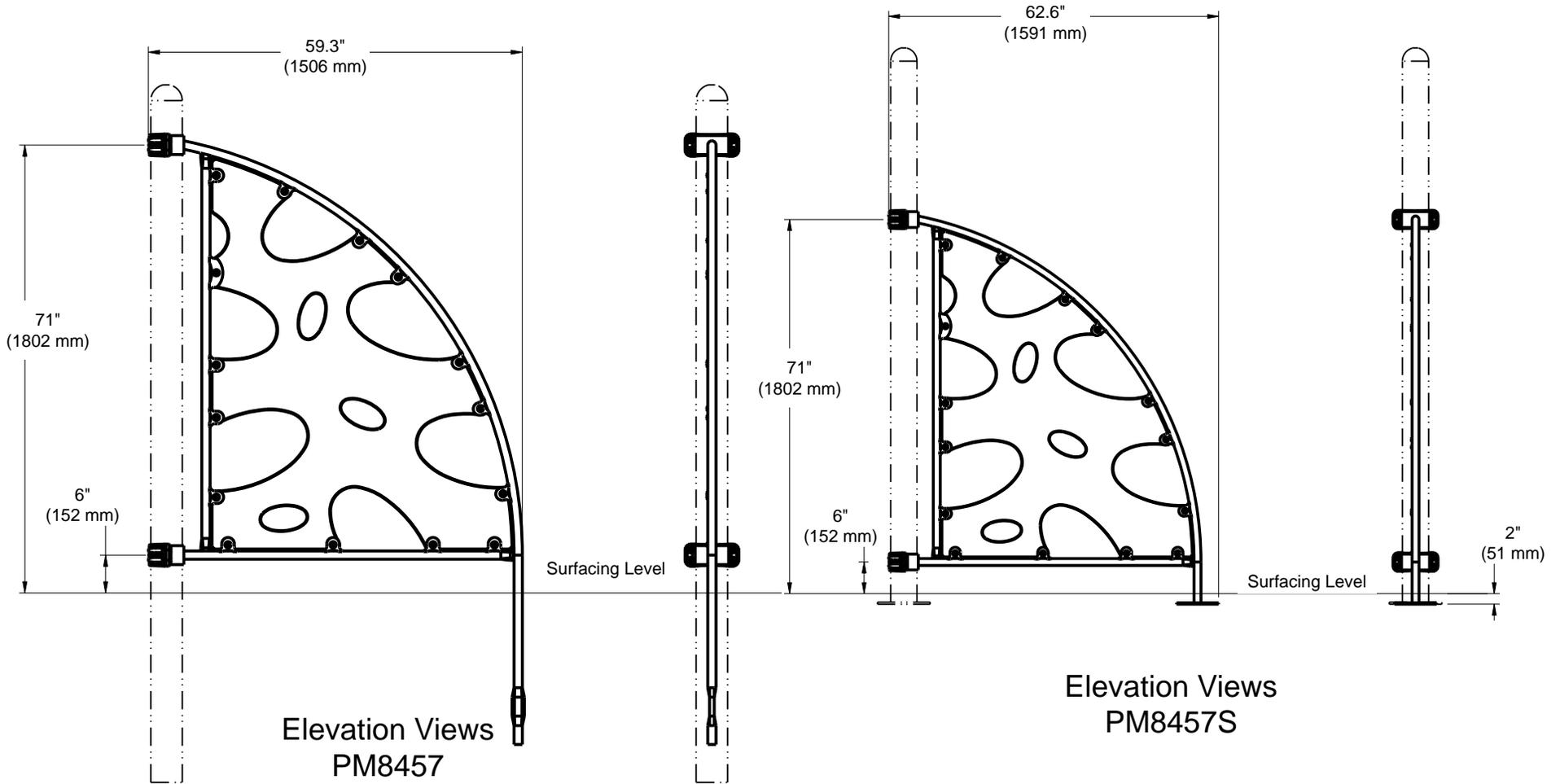


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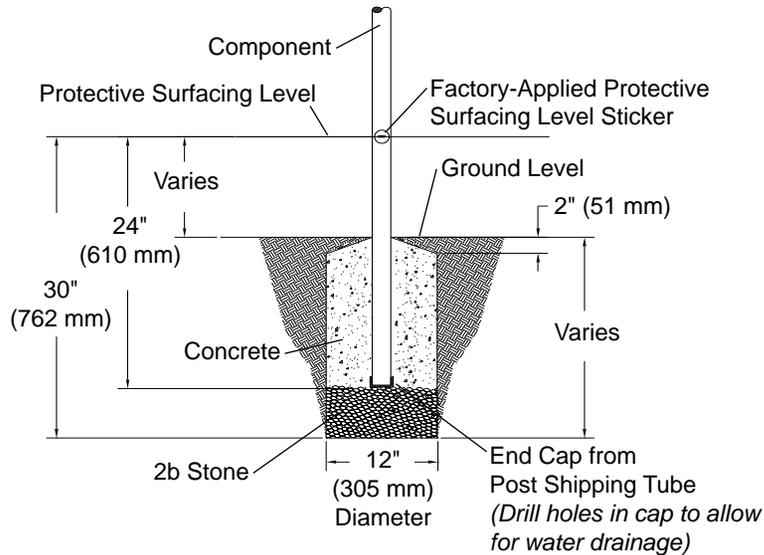


Installation Instructions

Top View



Installation Instructions



Component Footing Detail (ASTM/CSA)

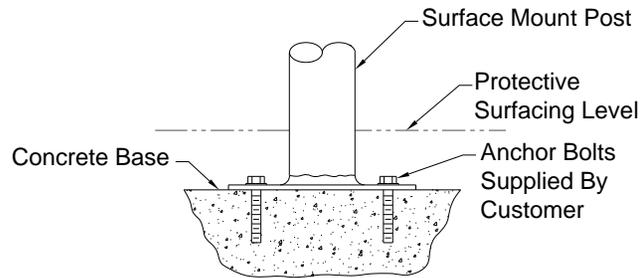
FOOTING NOTES

- 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

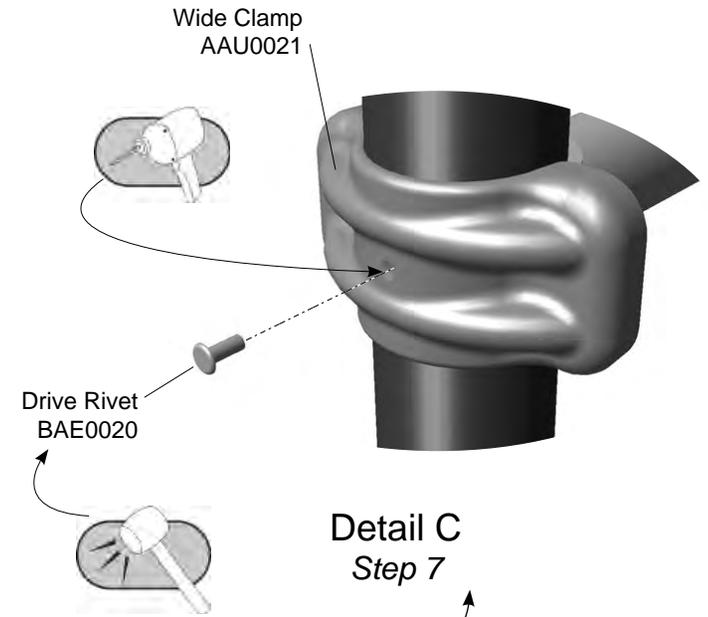
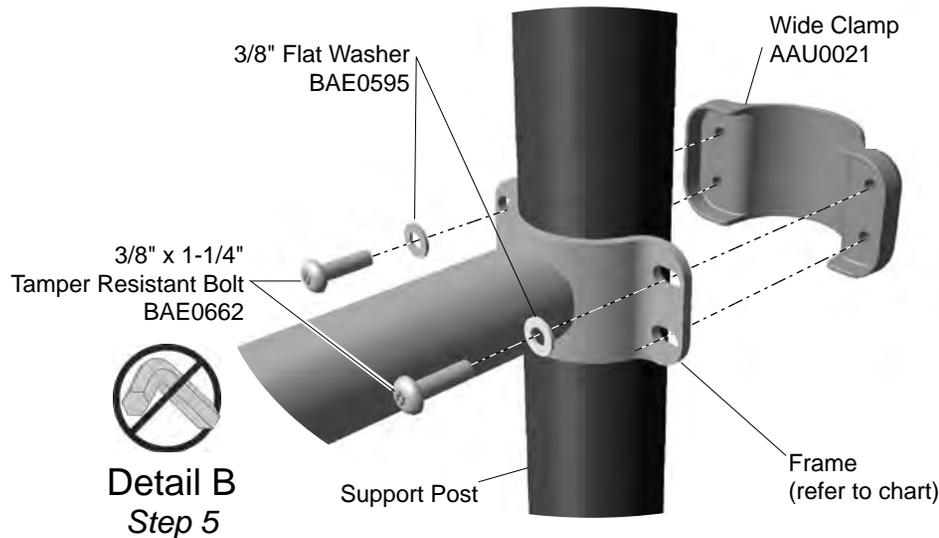
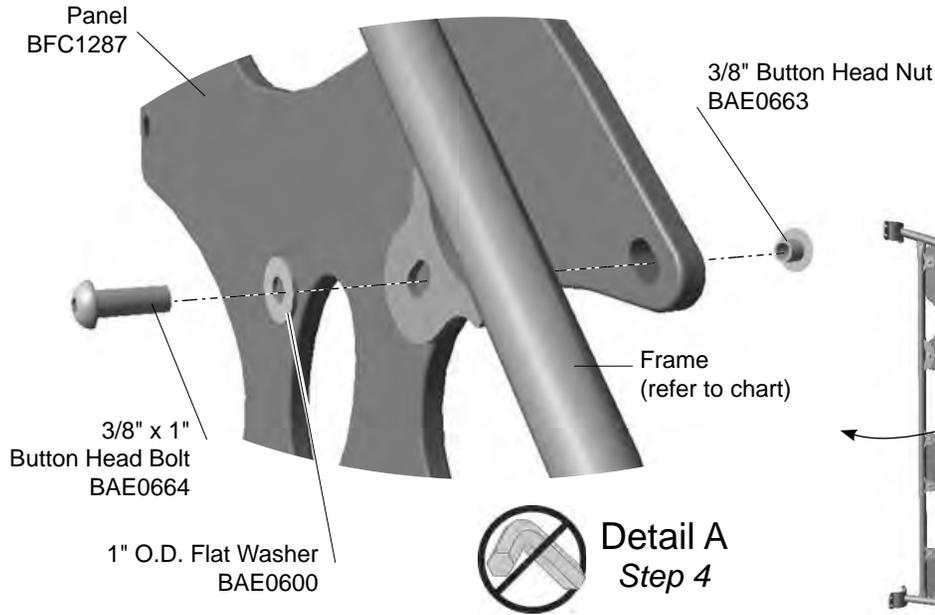
FOOTING NOTES

- 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 6.



(representative model)

Model	Frame Part Number
ZZPM8457	AFR0715
ZZPM8457S	AFR0716

(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.

Step 3: Excavate or Prepare footings as shown in the **Footing Details** in the Playmaker Guidelines and on page 3 of this installation document. Use the **Component Footing Details** for the in-ground model.

Attach the panel to the frame.

Step 4: See **Detail A**. Select the frame, the panel, and the appropriate hardware. There are (15) fifteen connections. Align the panel with the tabs on the frame. Attach as shown.

Attach the crater arch frame to the support posts.

Step 5: See **Detail B**. Select the clamps, and the appropriate hardware. There are (8) eight connections. Place the crater arch frame at the appropriate height. Attach as shown.

Note: After the structure is standing, make sure there is a consistent gap between the panel and the frame. When a consistent gap is achieved fully tighten the panel.

Final Details.

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

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

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.

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.



PM8457 - THE CRATER ARCH

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0715	FRAME - ADVENTURE END (PM)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	15
BAE0662	BOLT - 3/8"-16 x 1-1/4" Tmpr RESISTANT w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	15
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1287	SHEET - .75" x 47.79" x 61.95"	1

PM8457S - THE CRATER ARCH - SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0716	FRAME - ADVENTURE END (PM) (SM)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	15
BAE0662	BOLT - 3/8"-16 x 1-1/4" Tmpr RESISTANT w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	15
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1287	SHEET - .75" x 47.79" x 61.95"	1



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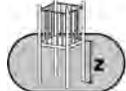
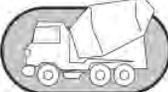
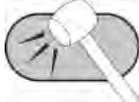
Installation Instructions
Playmakers® Models PM8466
The Crater Ladder



Assembly View

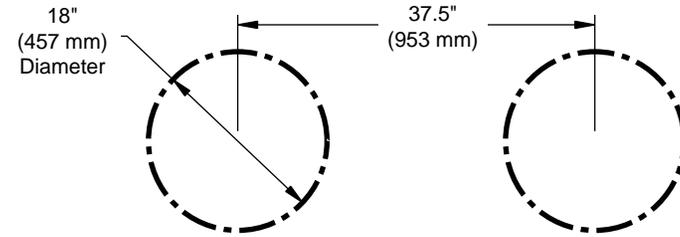
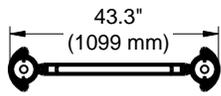
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

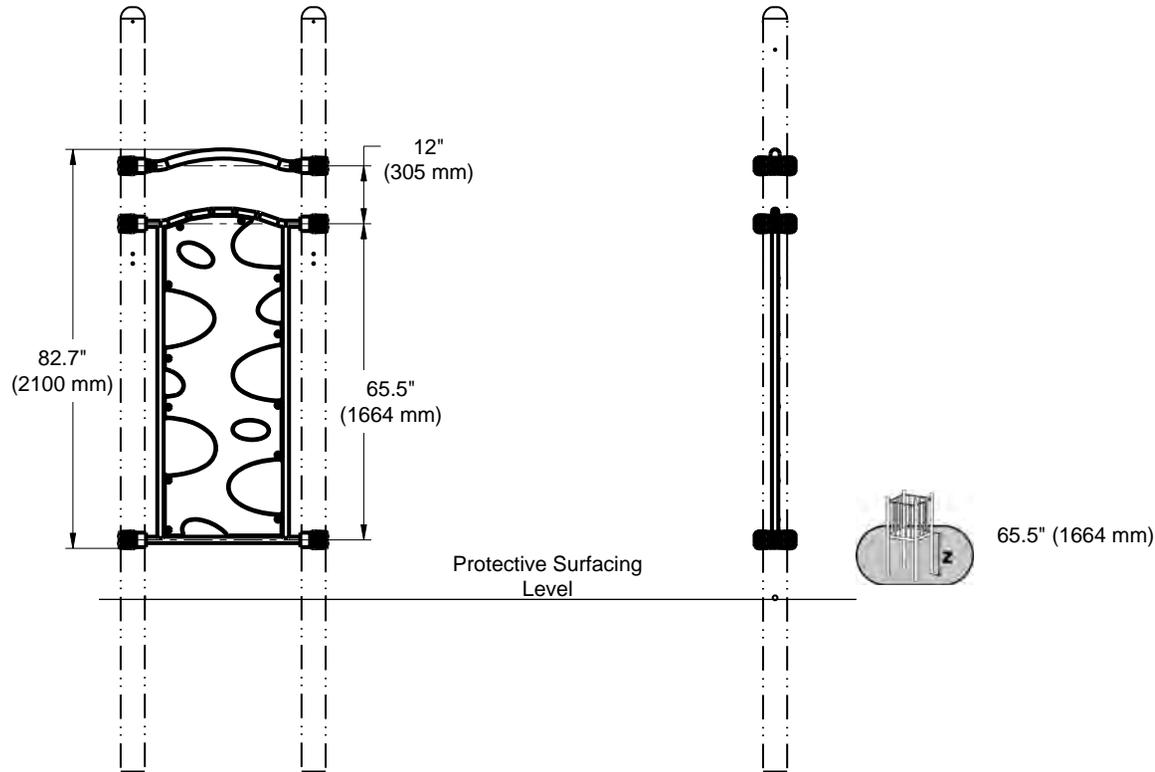
ICON KEY			
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

Top View



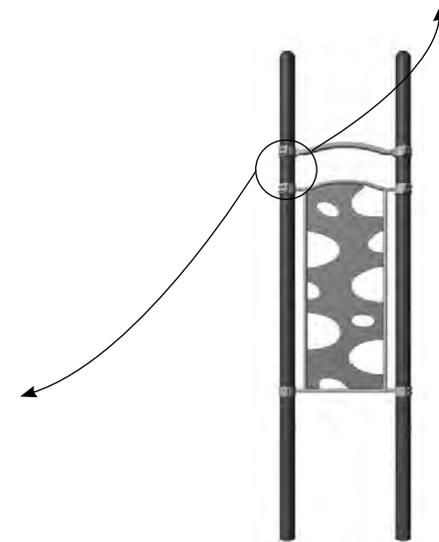
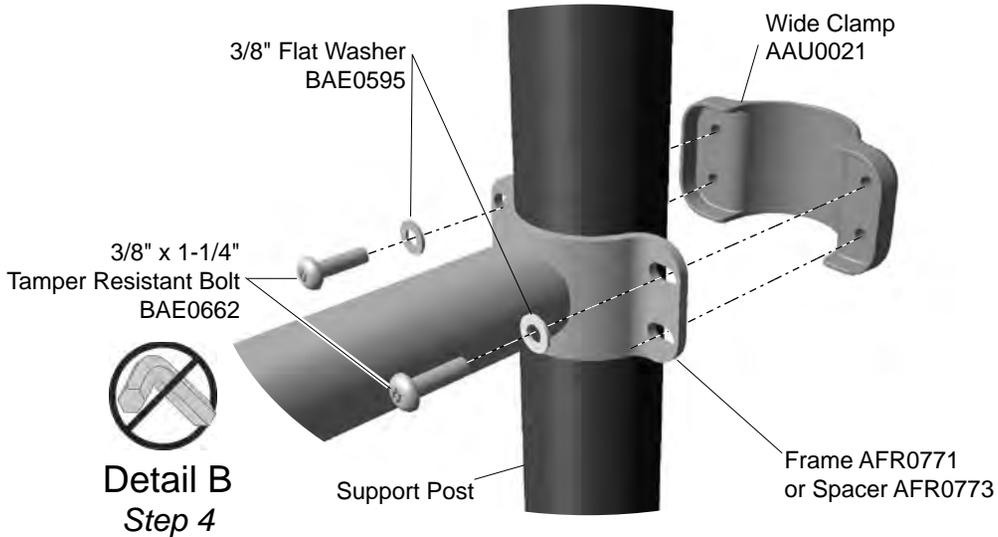
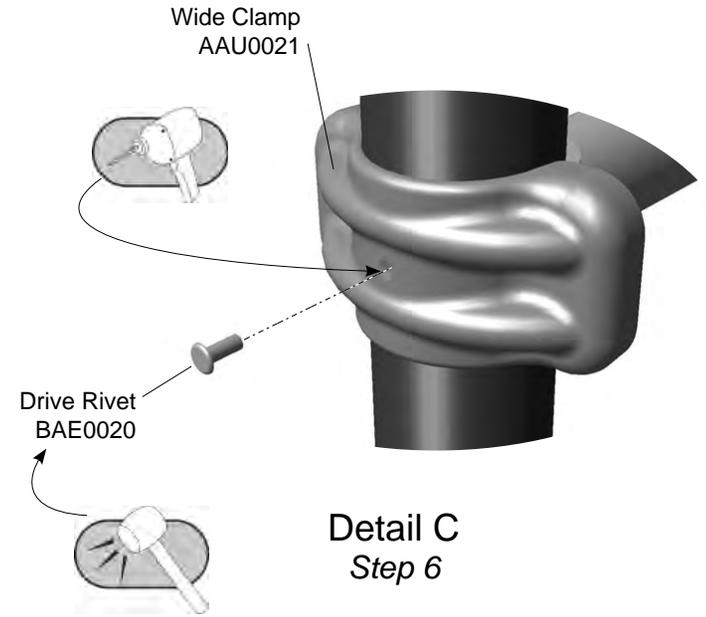
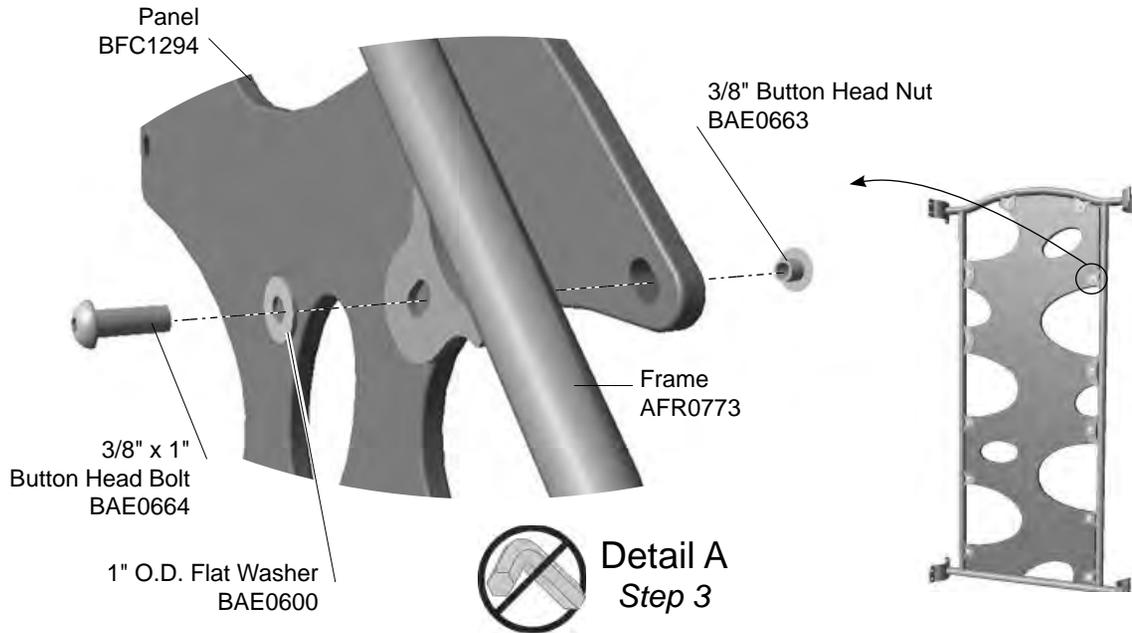
Footing Diagram



Elevation Views

Installation Instructions

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

Step 3: See **Detail A**. Select the frame, the panels, and the appropriate hardware. There are (12) twelve connections. Align the panel with the tabs on the frame. Attach as shown.

Attach the frame and the spacer to the support posts.

Step 4: See **Detail B**. Select the clamps, the handrail, and the appropriate hardware. There are (24) twenty-four connections. Place the frame at the appropriate height. Attach as shown. Place the spacer at the appropriate height above the frame. Attach as shown.

Note: After the structure is standing, make sure there is a consistent gap between the panel and the frame. When a consistent gap is achieved fully tighten the panel.

Final Details.

Step 5: Plumb and level the component. Ensure component is at the heights specified in the **Elevation Views**. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

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

Step 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.



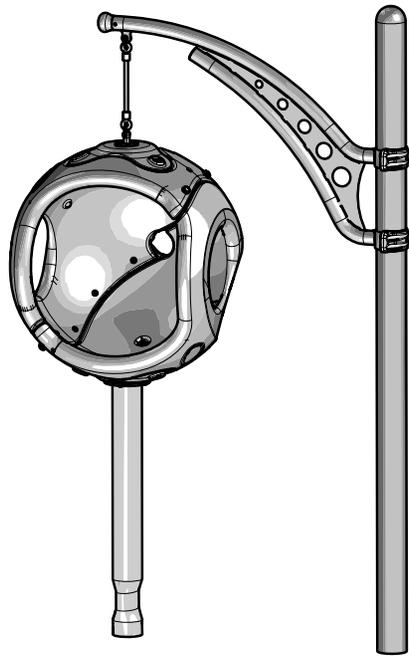
PM8466 - THE CRATER LADDER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	6
AFR0771	FRAME - 37.24" x 7.81" x 4.91" - (PM)	1
AFR0773	FRAME - 70.16" x 37.24" x 7.81" w/TABS (PM)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	24
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BFC1294	SHEET - 66.48" x 24.44" x .75"	1



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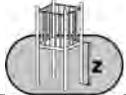
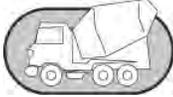
Assembly View (representative model)

Installation Instructions

Playmakers® Models PM8606 and PM8606S
 Cozy Cocoon - Stationary
 In-Ground and Surface Mount

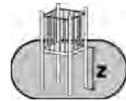
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (in-ground):..... 1.5 man-hours
 Installation Time (surface mount): 1 man-hour
 Concrete Required: 0.13 cubic yard (0,10 cubic meters)
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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

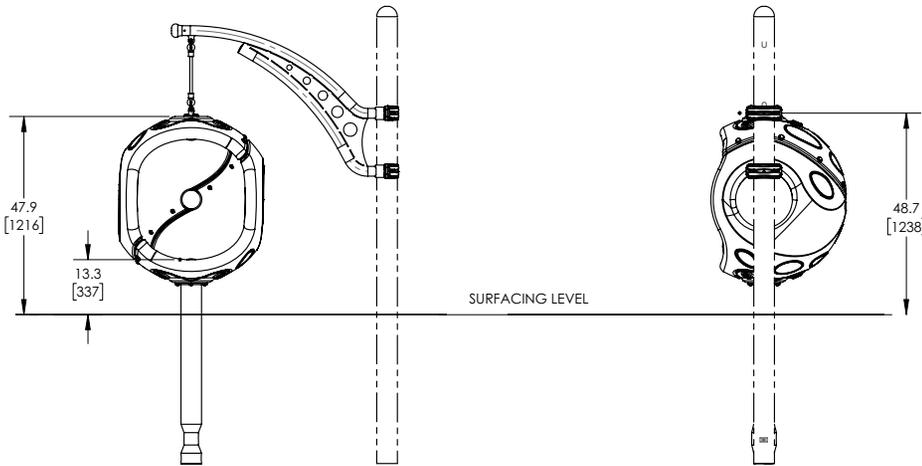
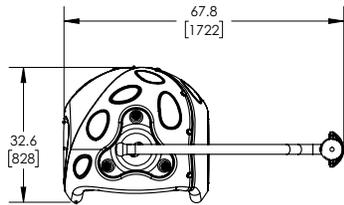
Installation Instructions

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

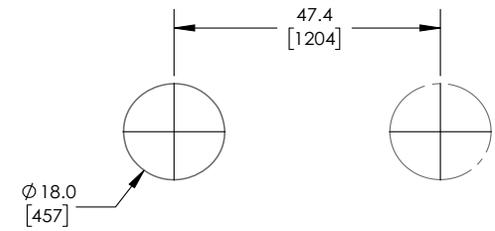


ASTM/CSA: 13.3" (337 mm)
EN: 47.9" (1216 mm)

Top View

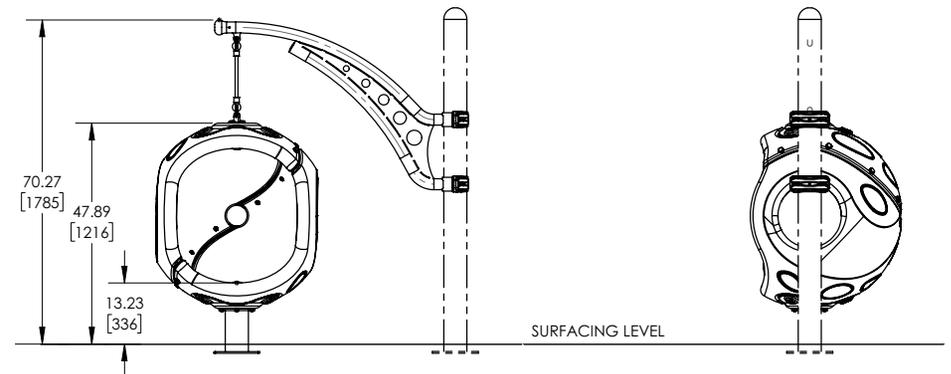
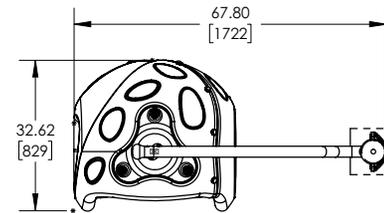


Elevation Views
PM8606



Footings Diagram
(Both Models)

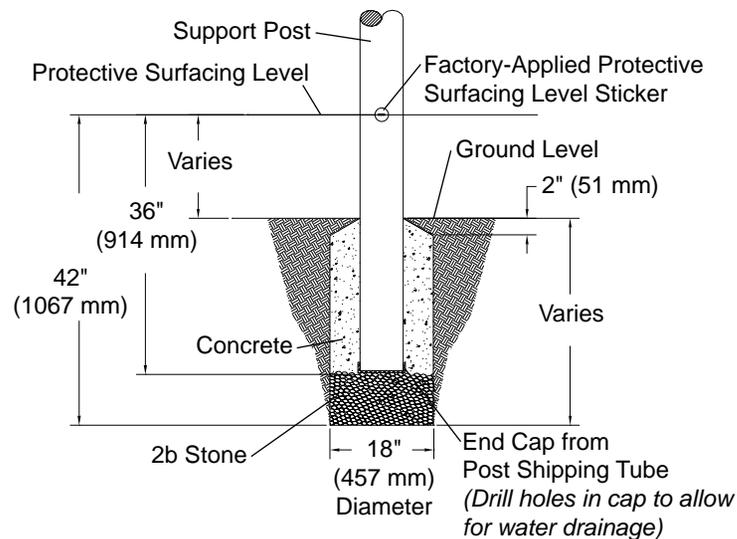
Top View



Elevation Views
PM8606S



Installation Instructions



Support Post Footing Detail (ASTM/CSA)

FOOTING NOTES

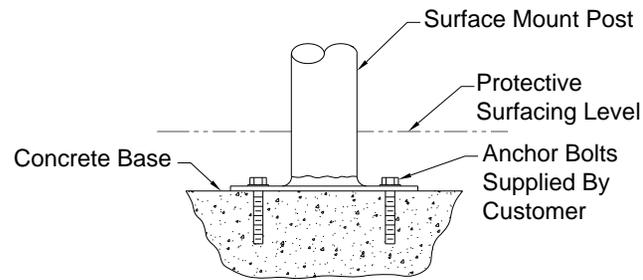
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.

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

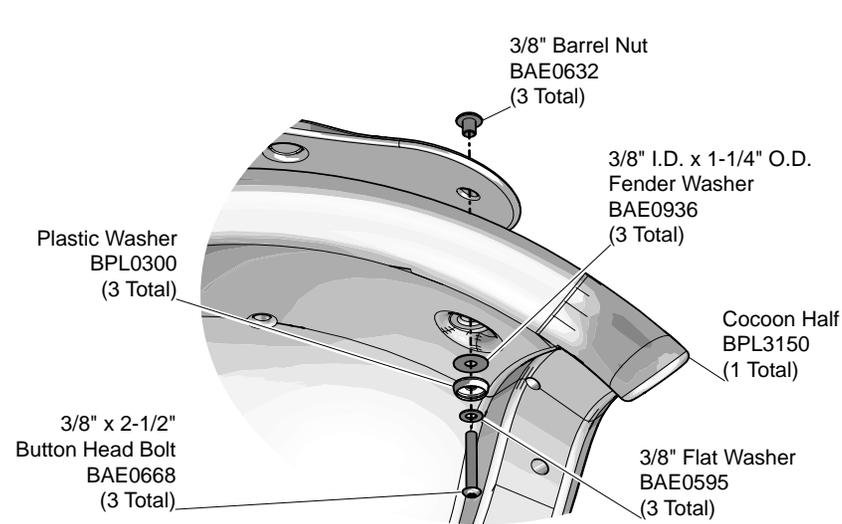
FOOTING NOTES

- 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.

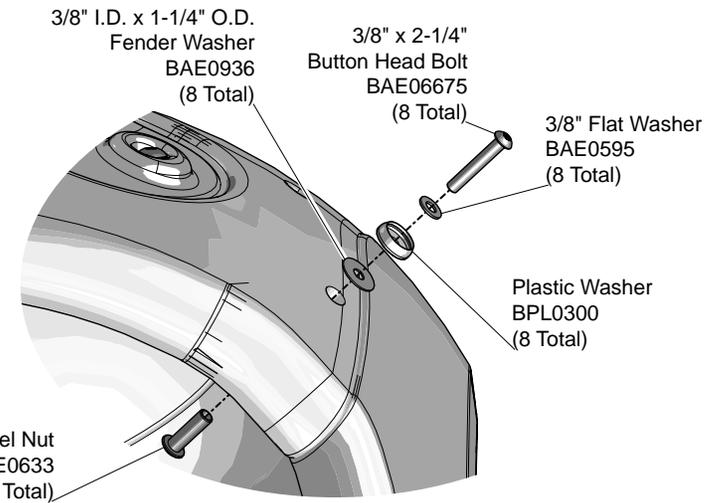
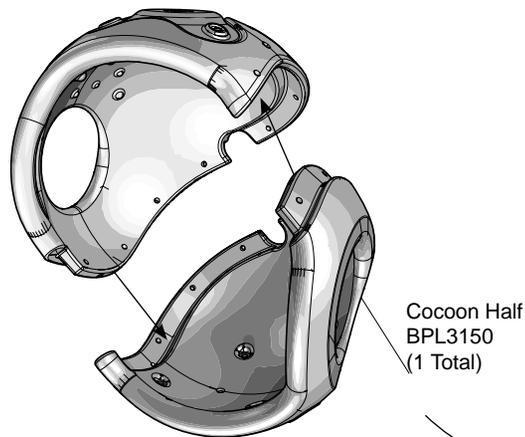
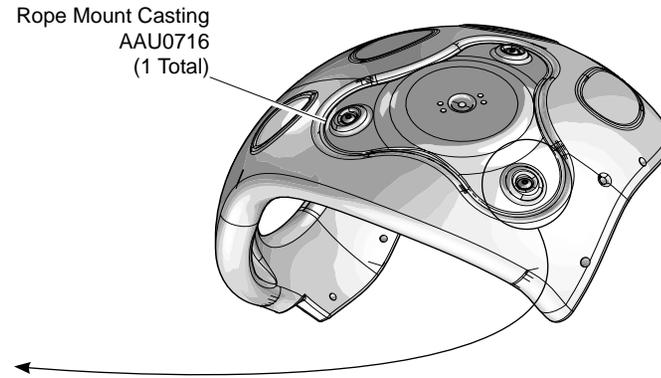
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 10.



Detail A Step 4

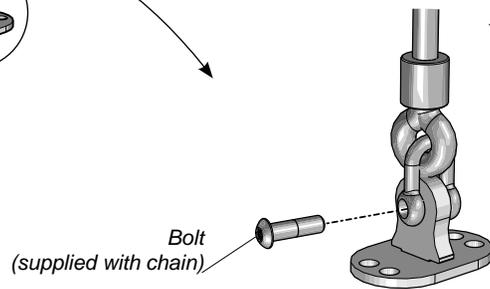
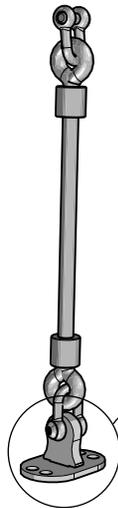
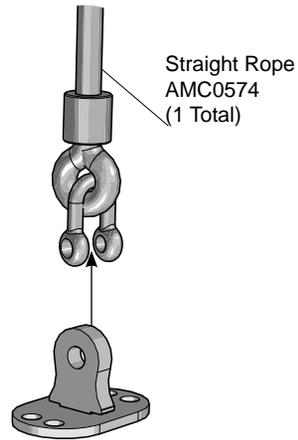
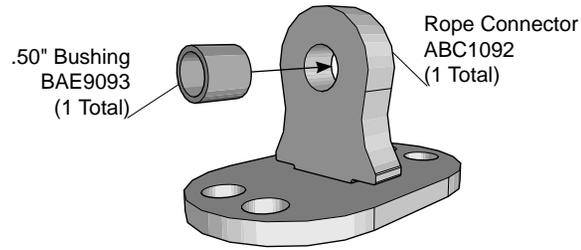
Attach the rope mount casting to a cocoon half.



Detail B Step 5

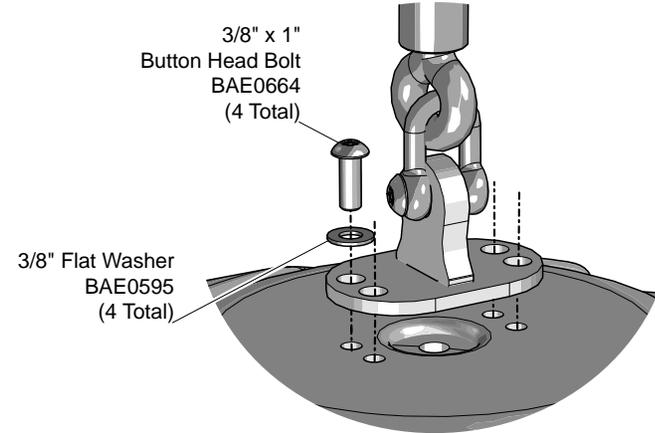
Attach the cocoon halves together.

Installation Instructions



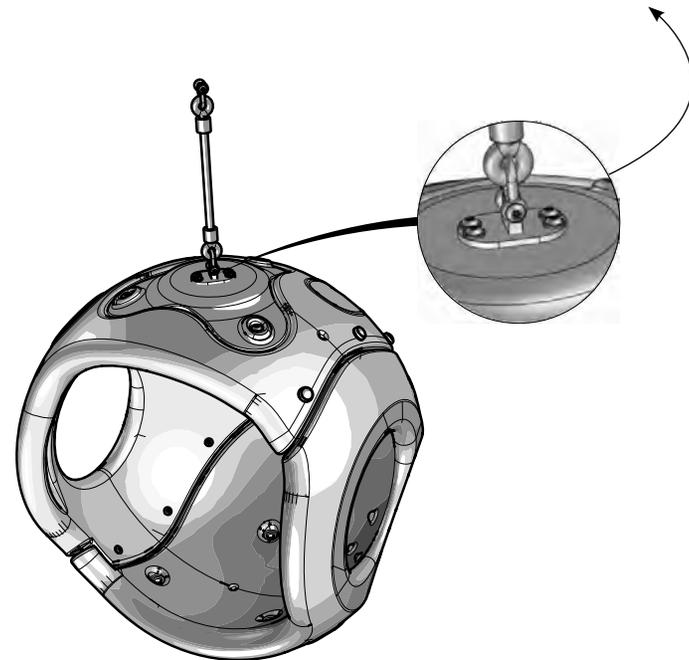
Detail C
Step 6

Attach the rope connector to the straight rope.

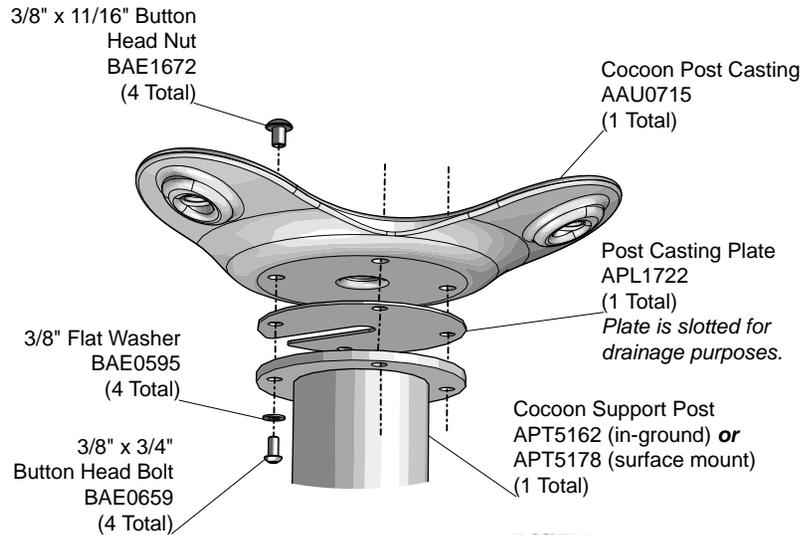


Detail D
Step 7

Attach the straight rope to the top of the cocoon.

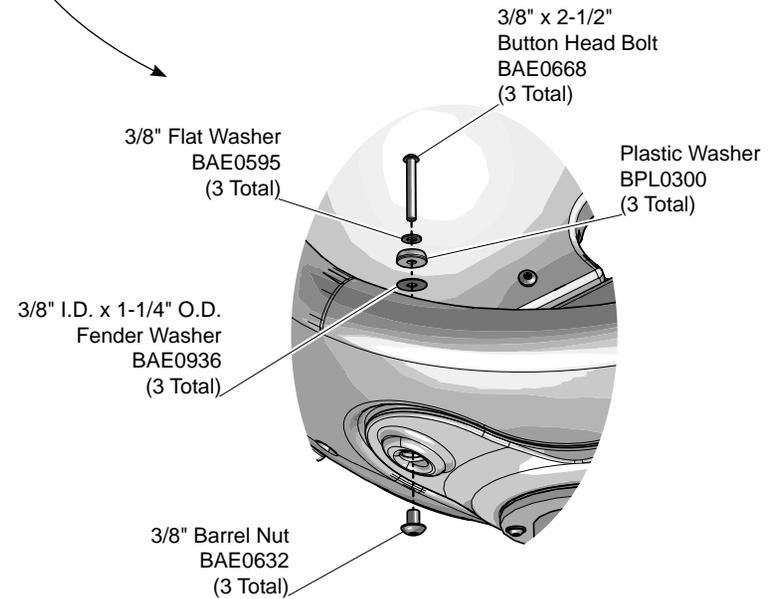
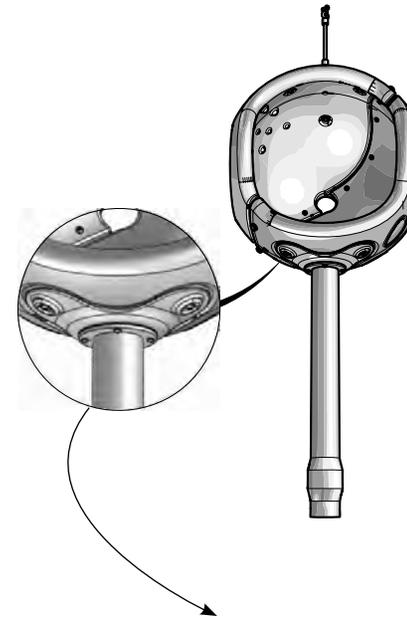


Installation Instructions



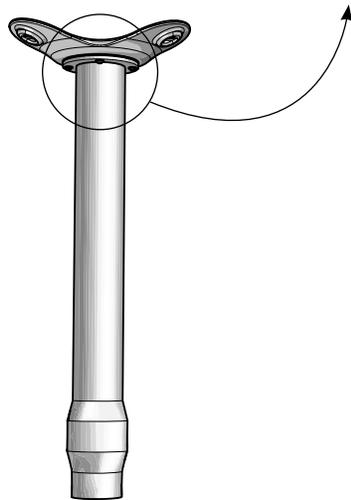
Detail E
Step 8

Attach the cocoon support post to the cocoon post casting.

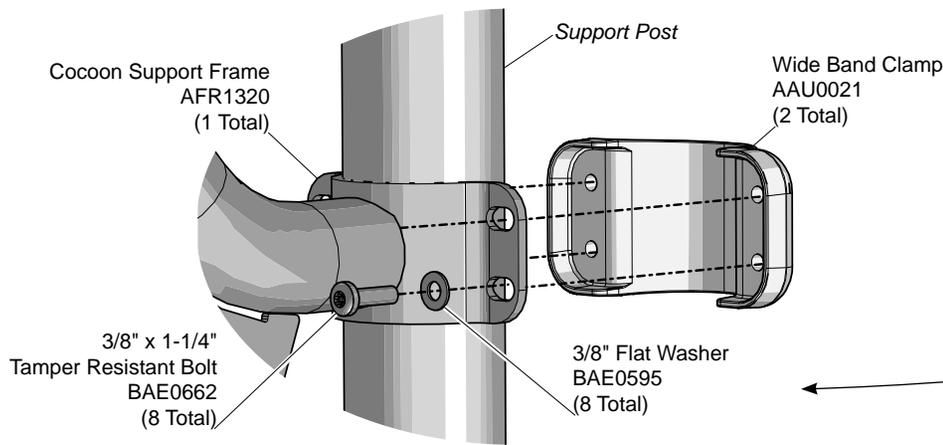


Detail F
Step 9

Attach the cocoon support post assembly to the bottom of the cocoon.



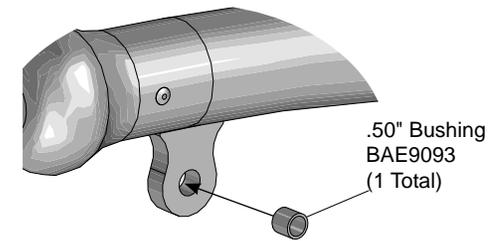
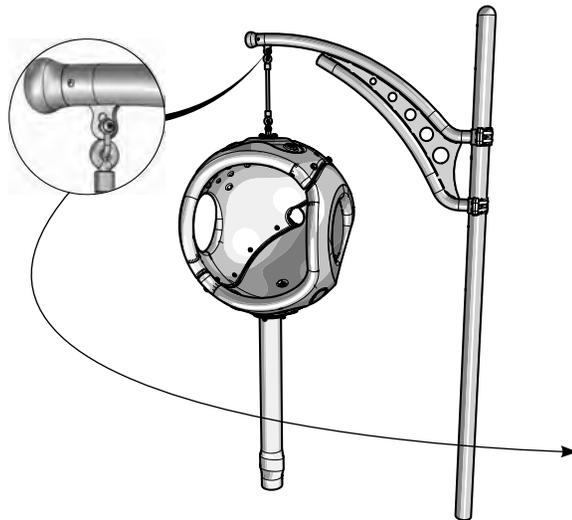
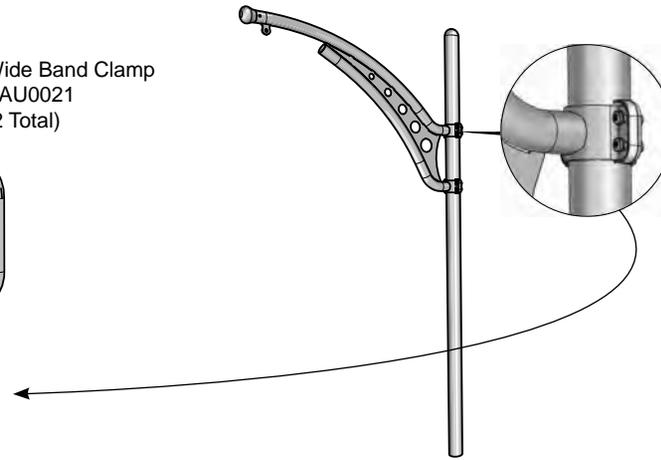
Installation Instructions



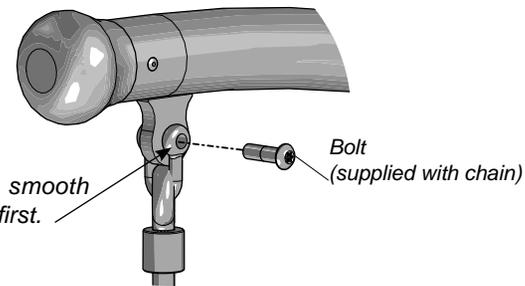
Detail G

Step 10

Attach the cocoon support frame to the support post.



Insert bolt through the smooth side of the shackle first.

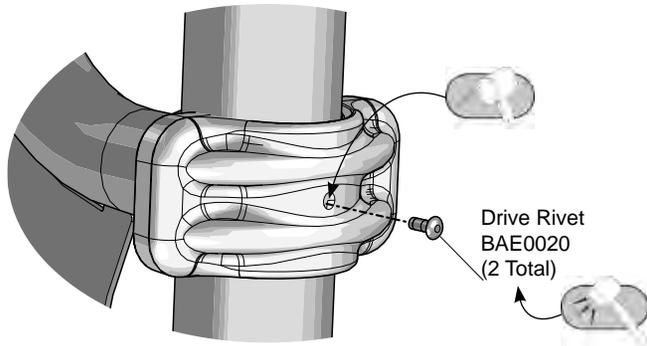


Detail H

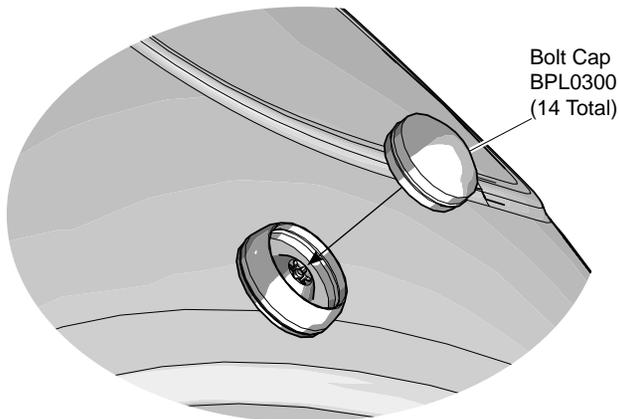
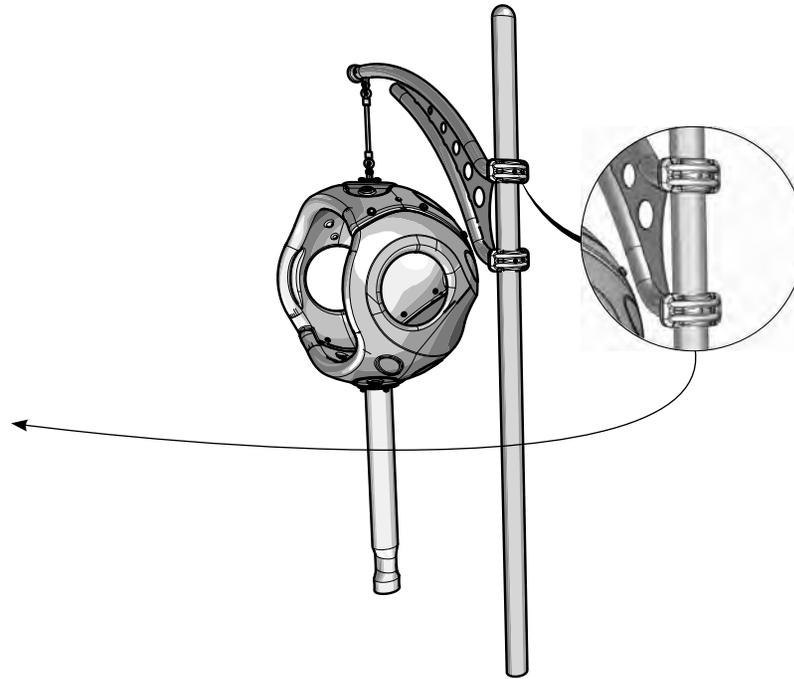
Step 11

Attach the long rope to the cocoon support frame.

Installation Instructions



Detail I
Step 13
Secure the clamps to the support post.



Detail J
Step 14
Insert the bolt caps into the plastic washers.

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Playmaker Guidelines* at the beginning of this instruction book and on pages 3 and 4 of this installation document. Use the **Support Post Footing Detail** for the in-ground model.

Step 4: Attach the rope mount casting to a cocoon half. See **Detail A**. Insert the casting into a cocoon half and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

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

Step 5: Attach the cocoon halves together. See **Detail B**. Place the two cocoon halves together and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 6: Attach the rope connector to the straight rope. See **Detail C**. Remove the bolt from the shackle on one end of the straight rope and insert a bushing into the tab on the rope connector. Position a shackle over the tab on the rope connector and align the holes. Insert bolt through the smooth side of each shackle first, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 7: Attach the straight rope to the top of the cocoon. See **Detail D**. Place the rope connector on the straight rope onto the top of the cocoon until fully seated, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 8: Attach the cocoon support post w/ bearing to the cocoon post casting. See **Detail E**. Position the support post and casting plate against the bottom of the cocoon post casting and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 9: Attach the cocoon support post assembly to the bottom of the cocoon. See **Detail F**. Place support post assembly against the bottom of the cocoon and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 10: Attach the cocoon support frame to the support post. See **Detail G** and the **Elevation View**. Position the frame against the support post at the height shown in the **Elevation View**, and attach as shown. Leave connections loose until cocoon is attached.

Step 11: Attach the straight rope to the cocoon support frame. See **Detail H**. Insert a bushing into the tab on the end of the support frame. Using the hardware supplied with the rope, and attach the rope to the support frame as shown. Fully tighten the connections according to tightening torque specifications.

Final Details.

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

Torque Specifications:

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

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

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

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



Installation Instructions

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

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

Step 14: Select plastic bolt caps and press into the plastic washers. See **Detail J**. The bolt caps install more easily when they are warm.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label (2-12 age label) to the component at eye level or at a visible location.



PM8606 - COZY COCOON - STATIONARY

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1
ABC1092	ROPE CONNECTOR - NON ROTATING COCOON	1
AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1
APT5162	POST - COCOON MOUNT	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	30
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	6
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	4
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - SS	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	4
BAE9093	BUSHING - .399" I.D. x .56" O.D. x .50"	2
BAE06675	BOLT - 3/8"-16 x 2.25" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8606S - COZY COCOON - STATIONARY SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1
ABC1092	ROPE CONNECTOR - NON ROTATING COCOON	1
AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1
APT5178	POST - COCOON MOUNT (SM)	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	30
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	6
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	4
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - SS	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	4
BAE9093	BUSHING - .399" I.D. x .56" O.D. x .50"	2
BAE06675	BOLT - 3/8"-16 x 2.25" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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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

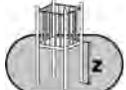
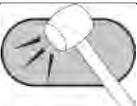


Assembly View (representative model)

Installation Preparation

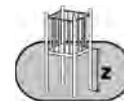
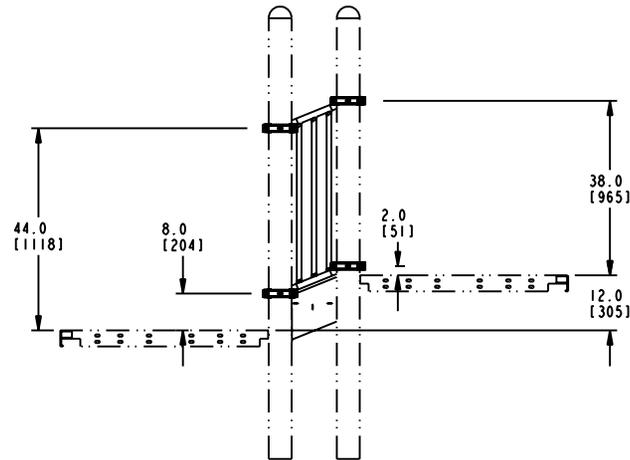
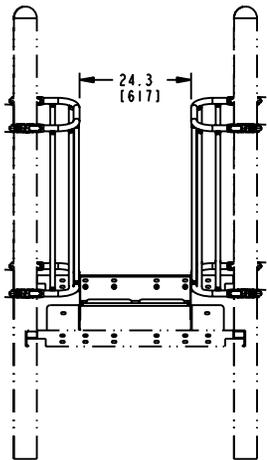
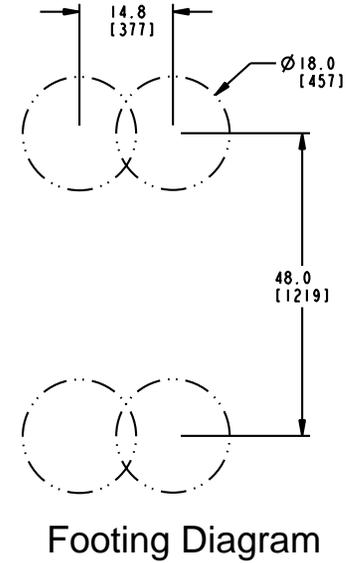
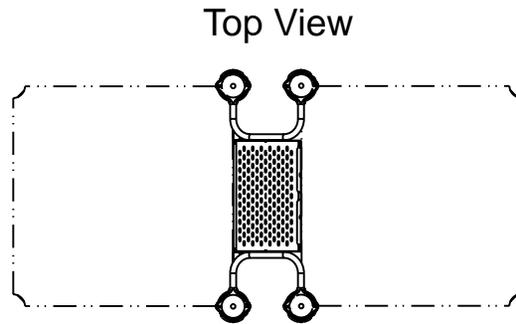
Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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]

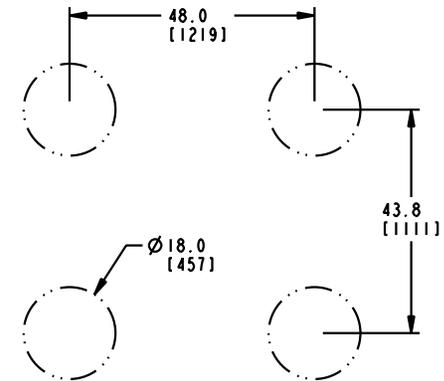
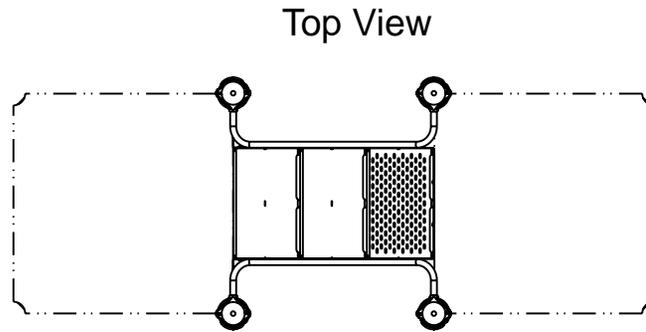


Height of the upper deck
minus 6" (152 mm)

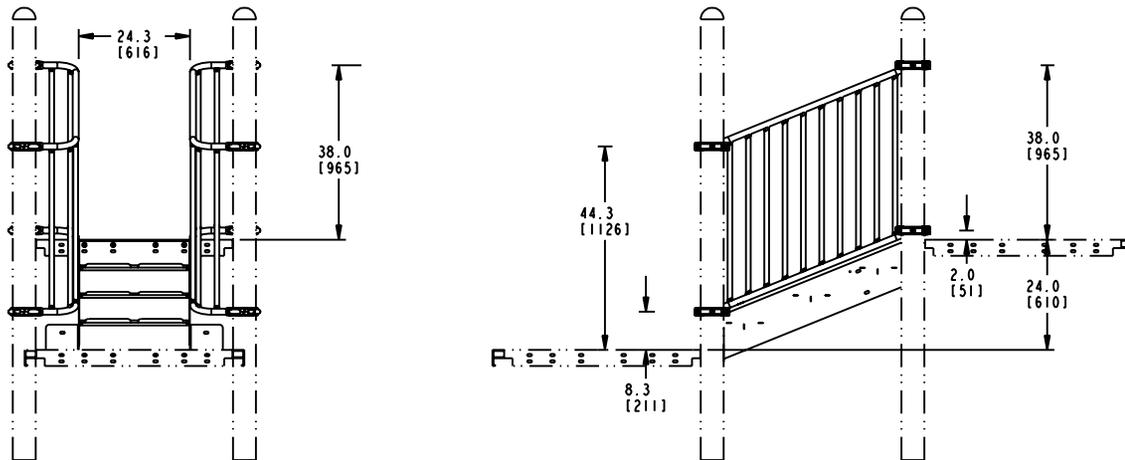
Elevation Views
PM9168

Installation Instructions

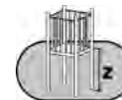
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation Views
PM9170

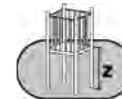
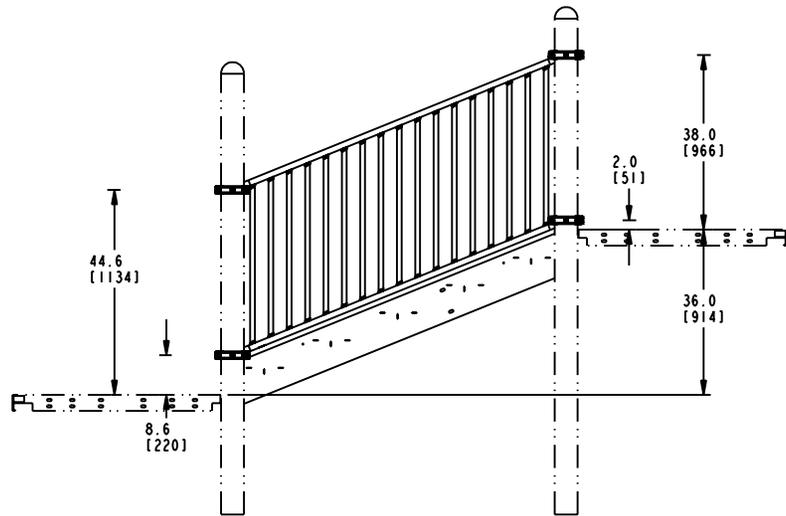
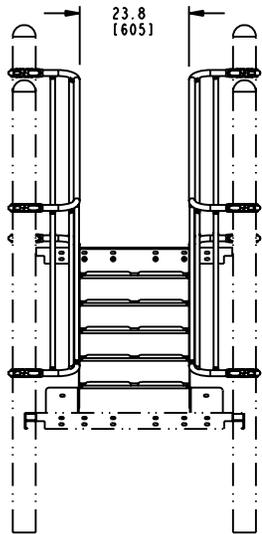
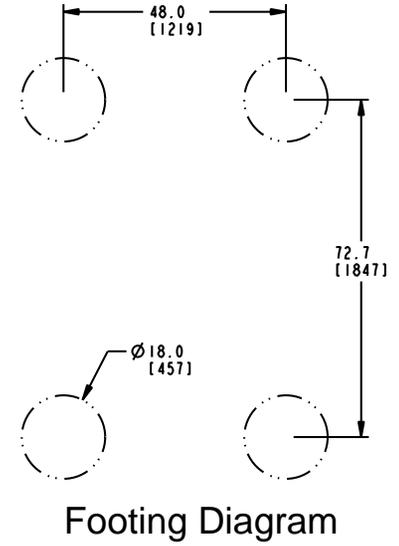
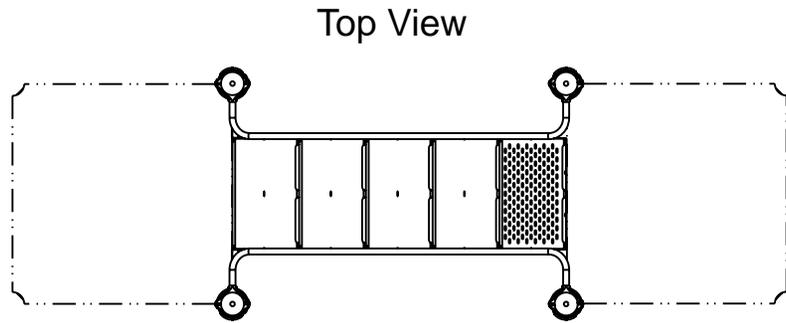


Height of the upper deck
minus 6" (152 mm)



Installation Instructions

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

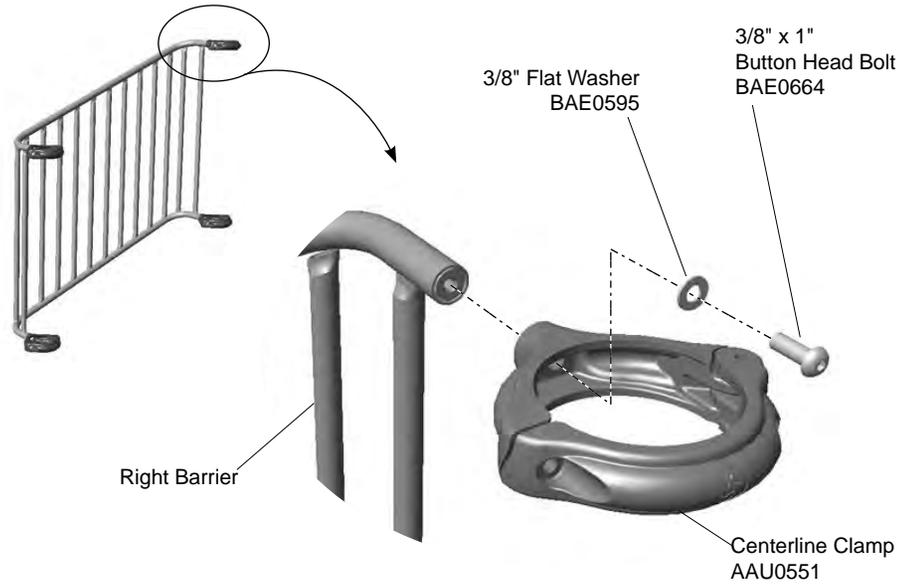


Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177

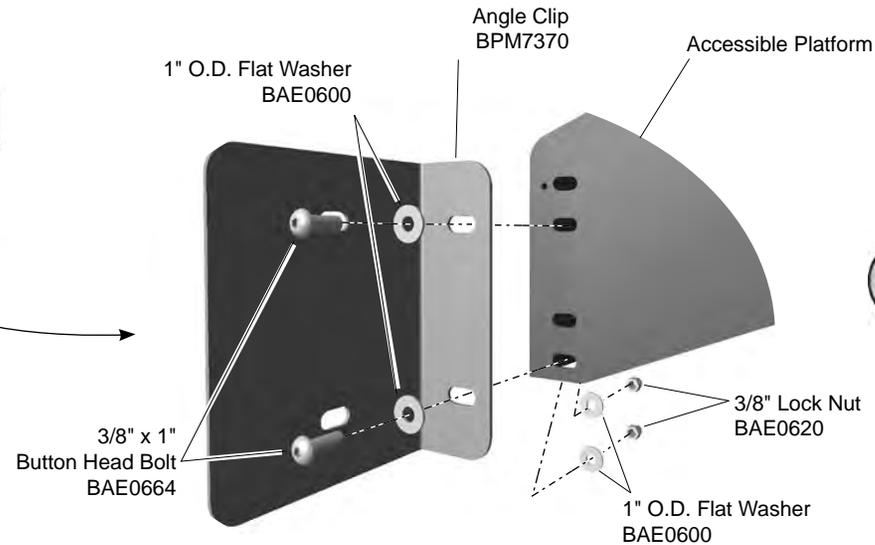
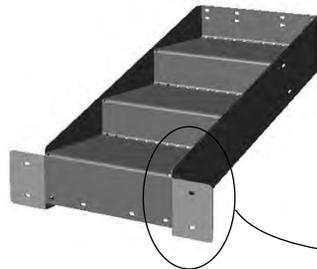
Installation Instructions

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

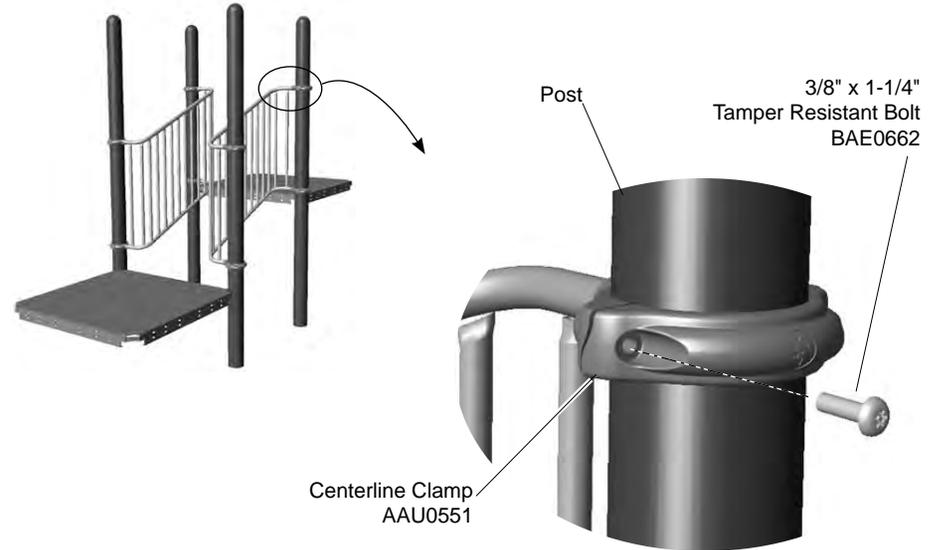


Detail A
Step 4

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



Detail C
Step 6

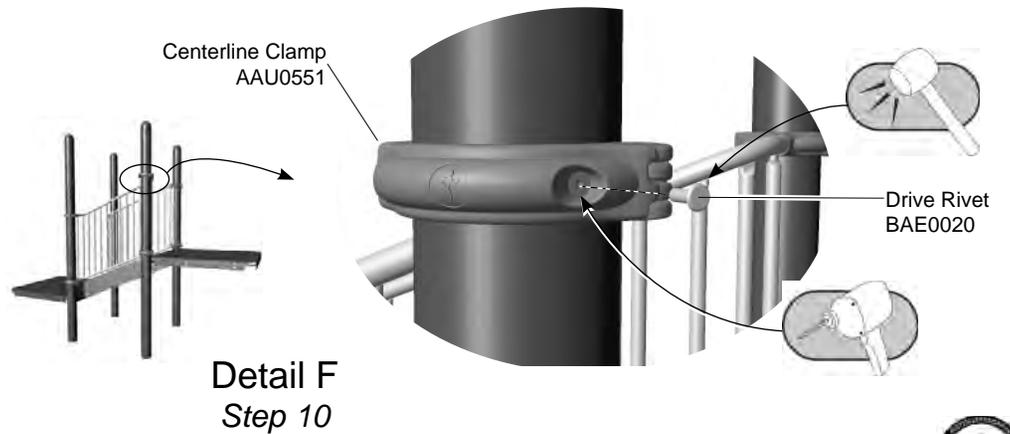
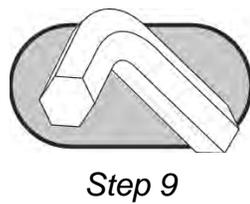
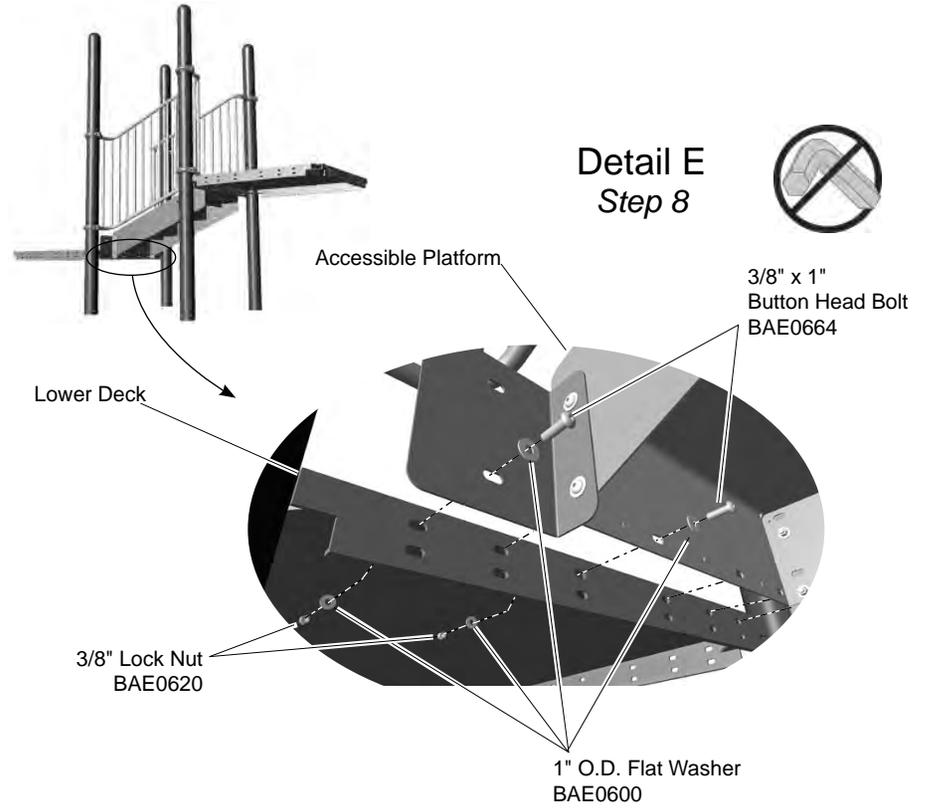
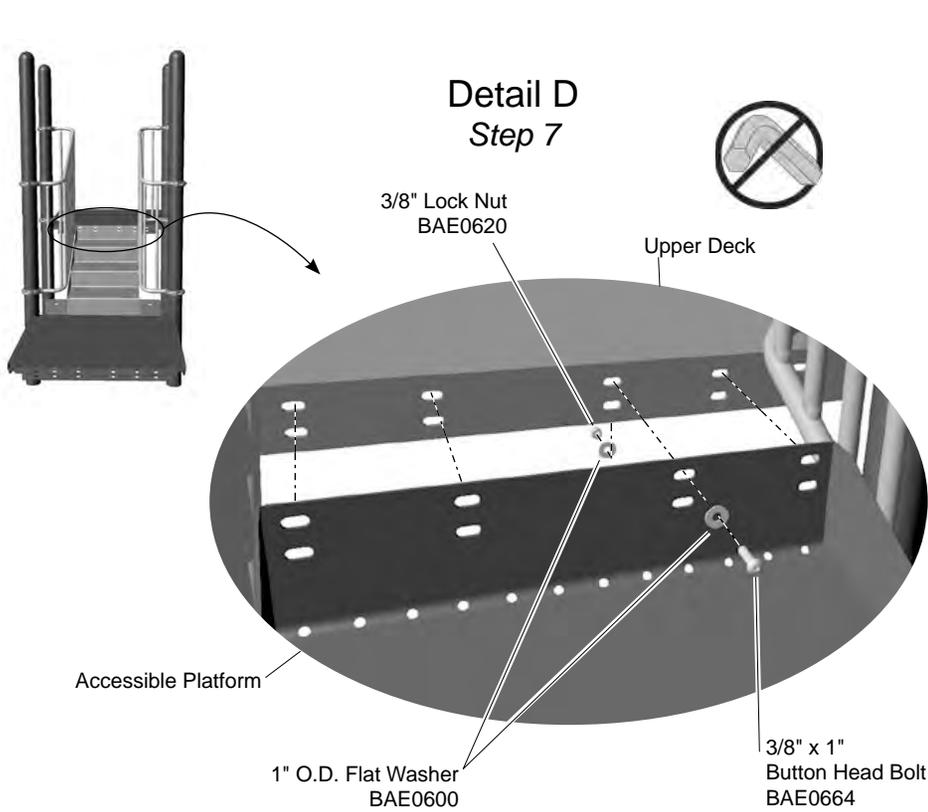


Detail B
Step 5



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

Installation Instructions



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

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

Torque Specifications:

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

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

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



PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

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

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2



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Assembly View

Installation Instructions

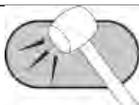
Playmakers[®]

Model PM9846

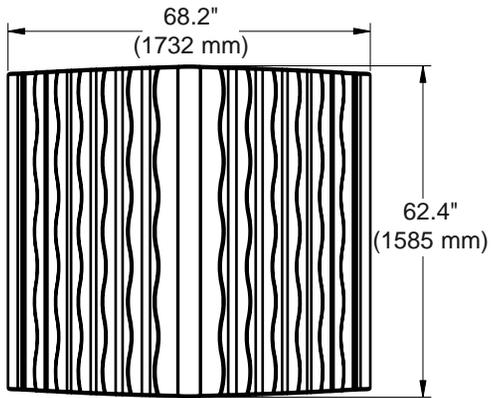
Cabana Roof

Installation Preparation

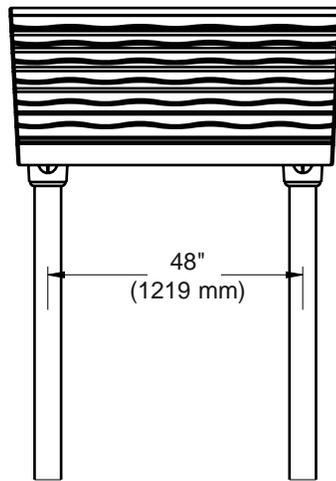
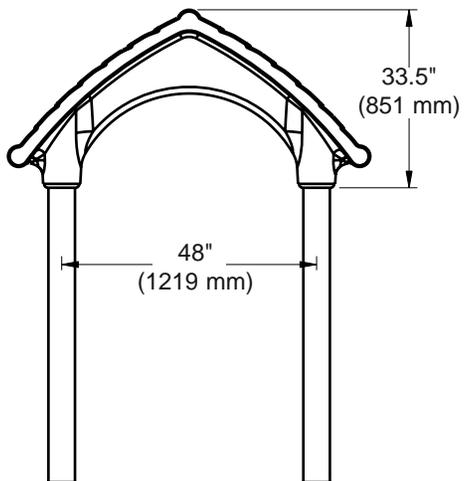
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour

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

Installation Instructions



Top View



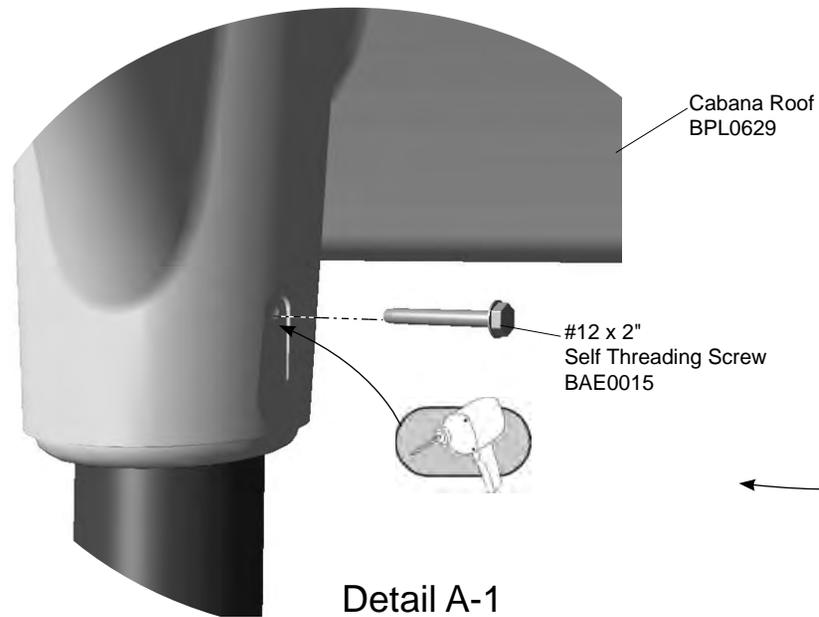
Elevation Views
ZZPM9846

Installation Instructions

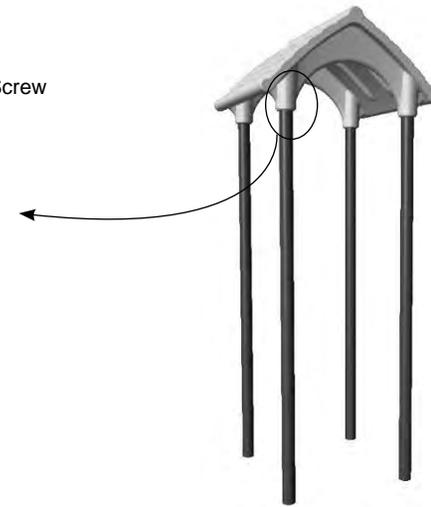
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



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.



PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1



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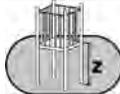
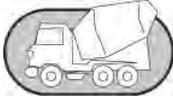


Assembly View

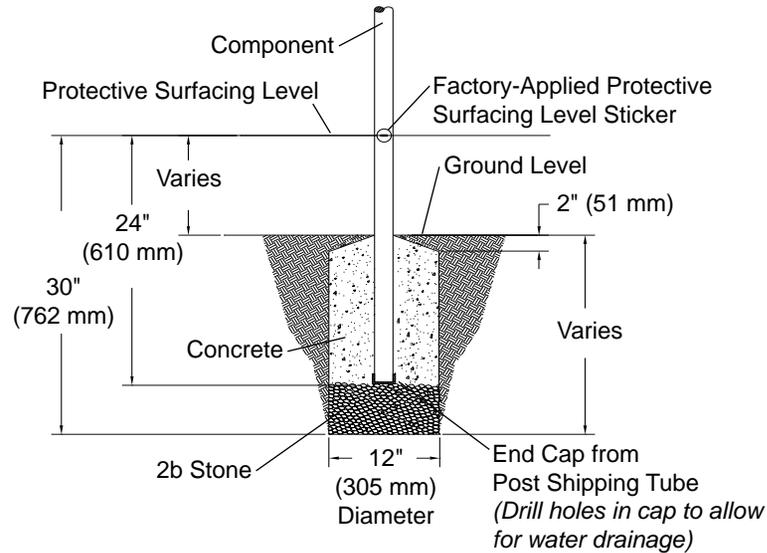
Installation Instructions Universal Model UN2019 Platform Approach Step

Installation Preparation

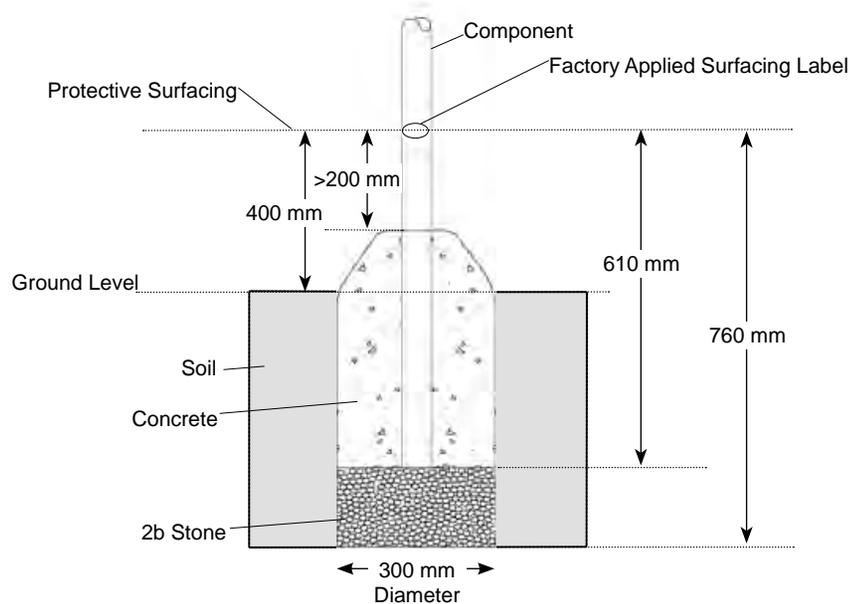
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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)

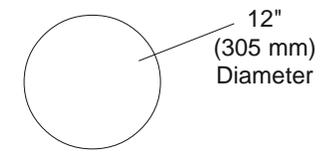


Footing Detail Component Post (EN)

FOOTING NOTES

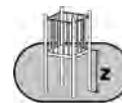
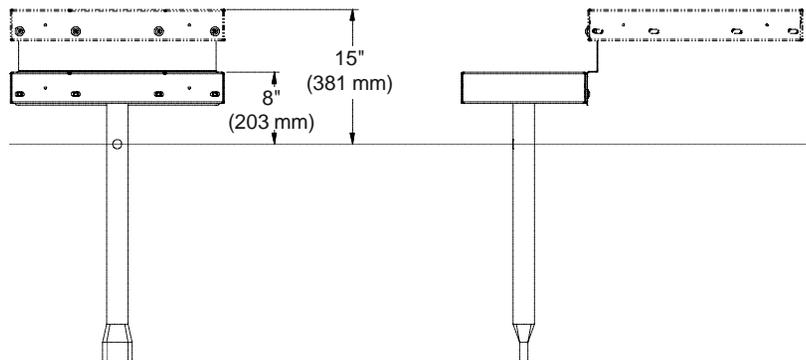
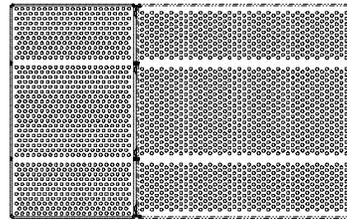
- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- Component footing depth equals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

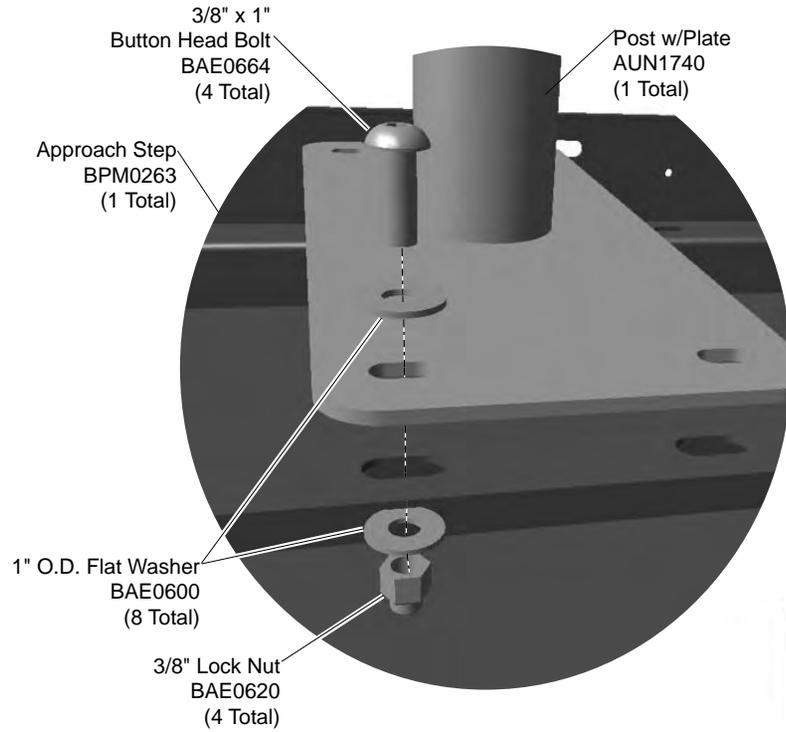


15" (381 mm)

Elevation Views

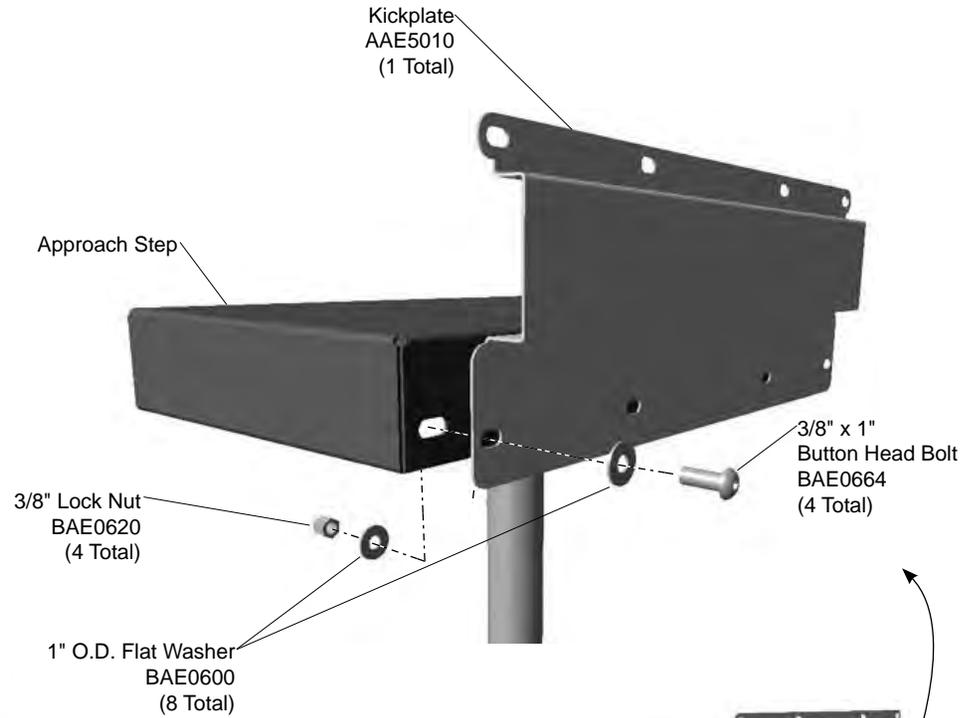
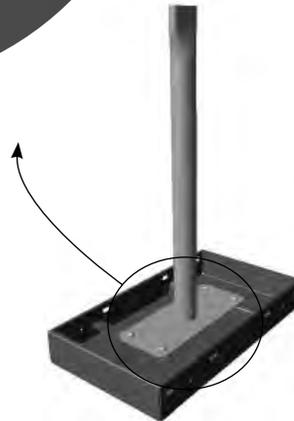
Installation Instructions

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



Detail A Step 4

Attach the anchor post to the approach step.

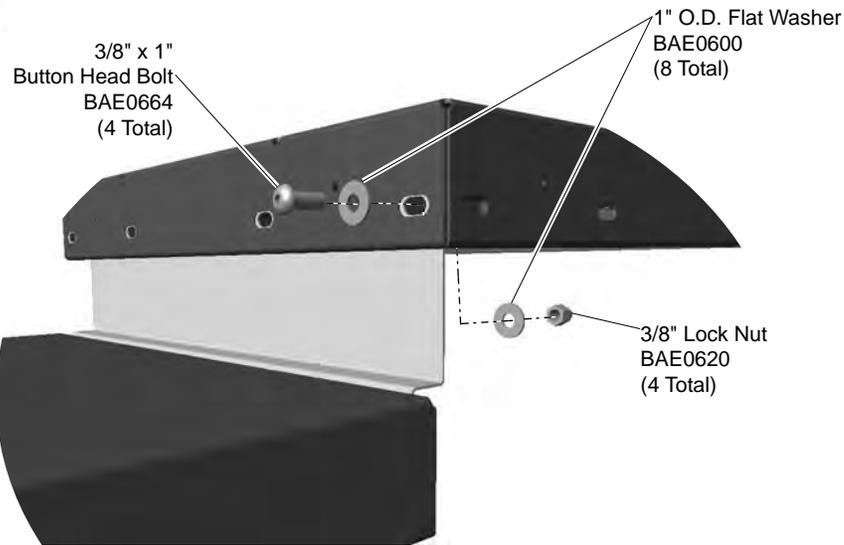
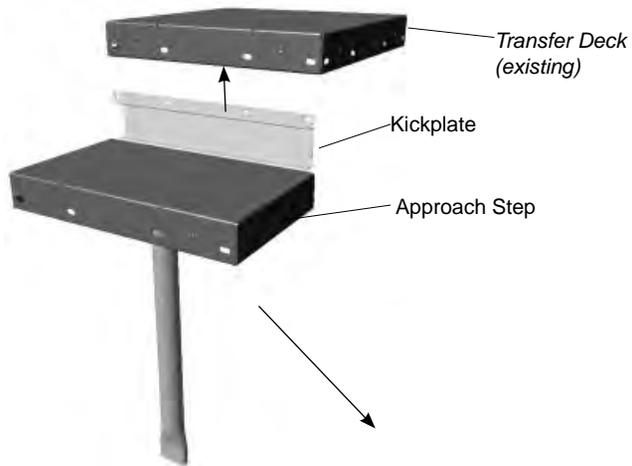


Detail B Step 5

Attach the kickplate to the approach step.



Installation Instructions

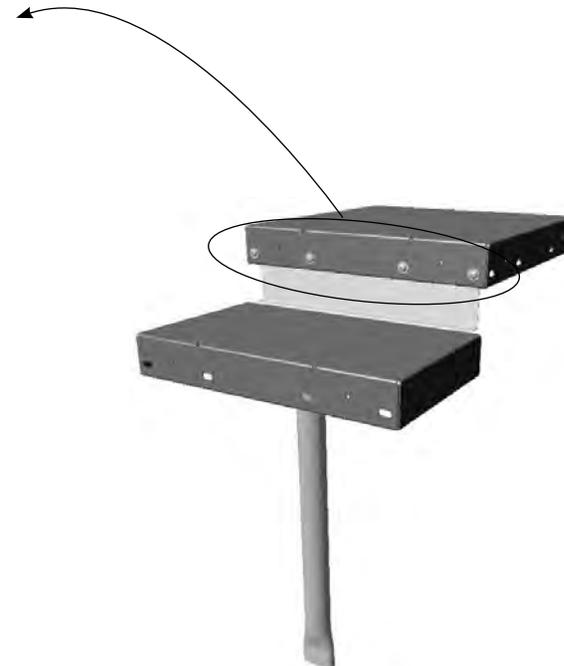


Detail C Step 6

Attach the kickplate to the transfer deck.



Step 7



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Attach the support leg to the approach step.

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

Attach the kickplate to the approach step.

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

Attach the approach step assembly to the transfer deck.

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

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

Final Details.

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

Torque Specifications:

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

UN2019 - PLATFORM-APPROACH STEP

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



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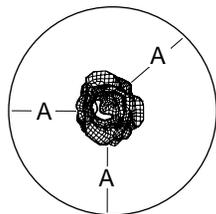
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Assembly View (representative model)



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 1948 mm

Installation Instructions

Universal Models UN8246 and UN8246S

RockBlocks Stalagmite Climber

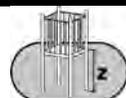
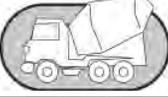
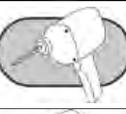
for 2 ft. (610 mm), 3 ft. (914 mm) and

4 ft. (1219 mm) Decks

In-Ground and Surface Mount

Installation Preparation

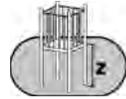
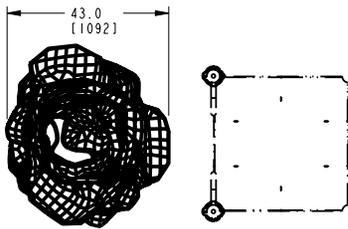
Recommended Crew: Two (2) adults
 Installation Time (in-ground):..... 1.75 man-hours
 Installation Time (surface mount): 0.25 man-hour
 Concrete Required: 0.09 cubic yard (0,06 cubic meters)
 Use Zone:..... Refer to the information below
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

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

Installation Instructions

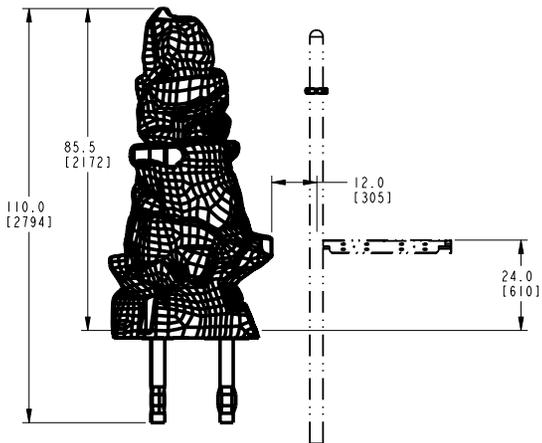
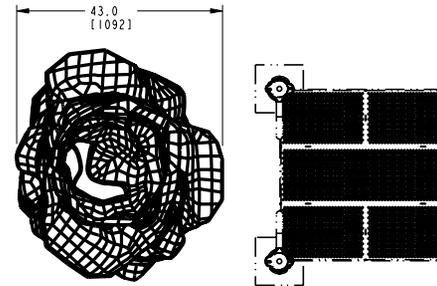
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

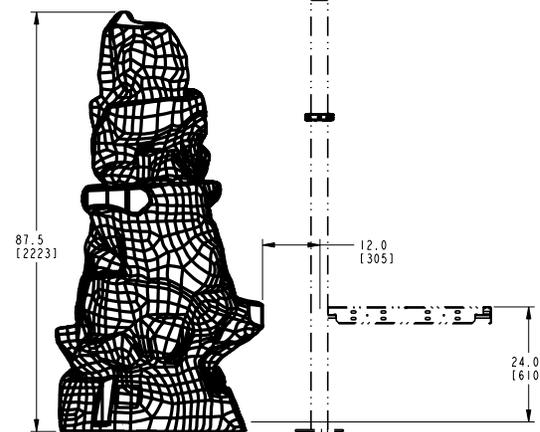
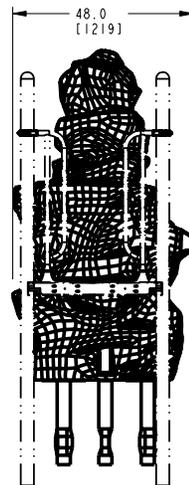


85.5" (2172 mm)

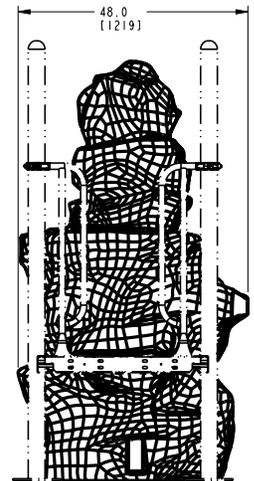
Top View



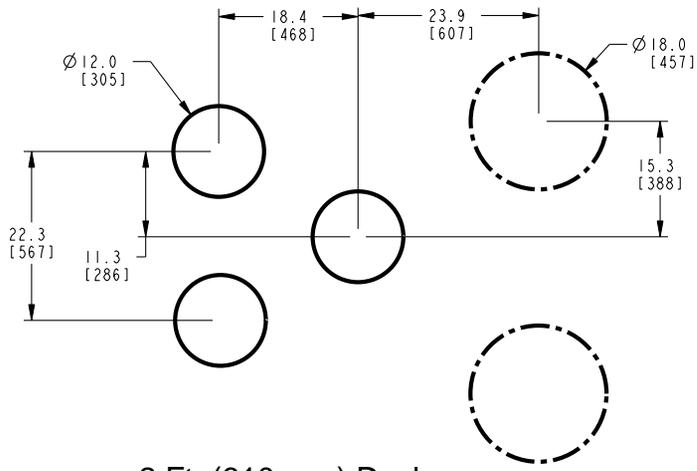
Elevation Views
UN8246



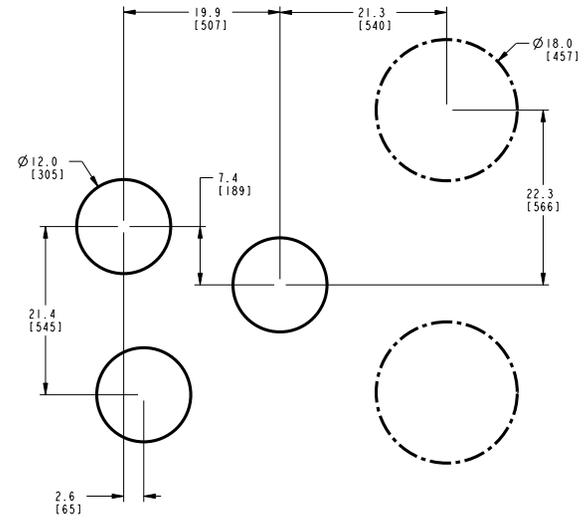
Elevation Views
UN8246S



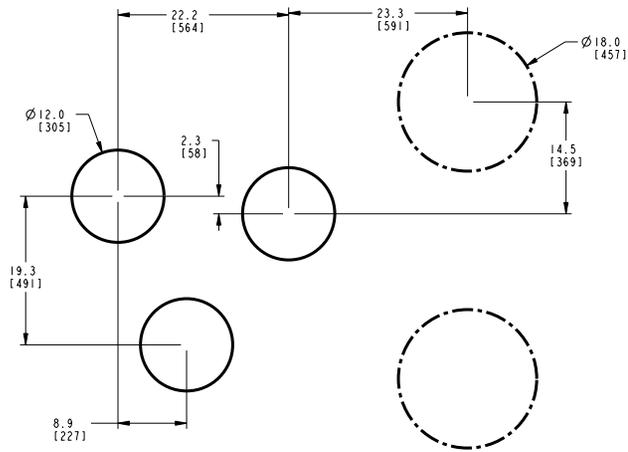
Installation Instructions



2 Ft. (610 mm) Deck



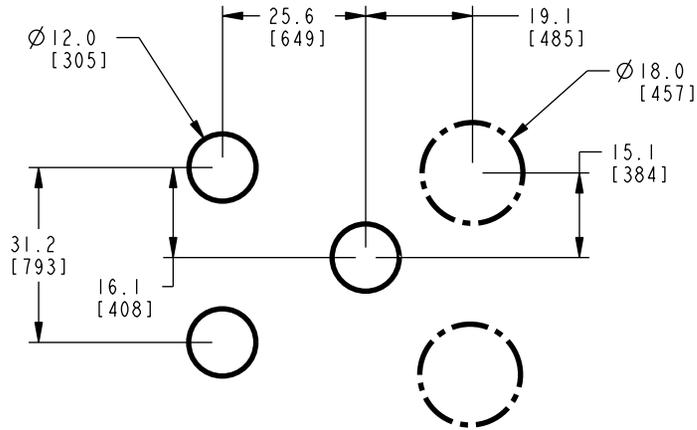
4 Ft. (1219 mm) Deck



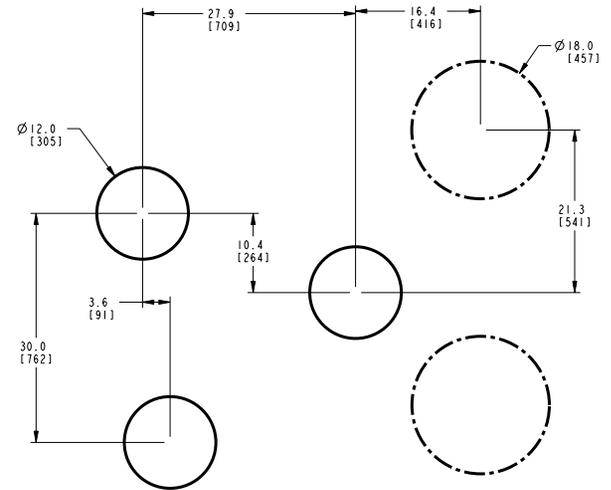
3 Ft. (914 mm) Deck

Footing Diagrams (In-Ground Model)

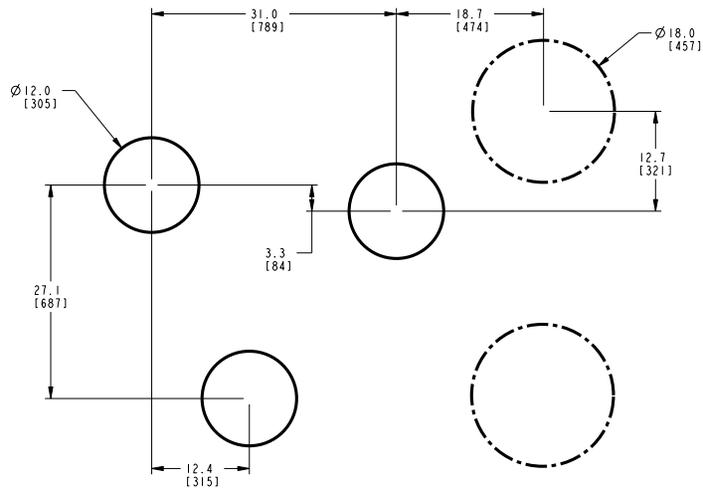
Installation Instructions



2 Ft. (610 mm) Deck



4 Ft. (1219 mm) Deck



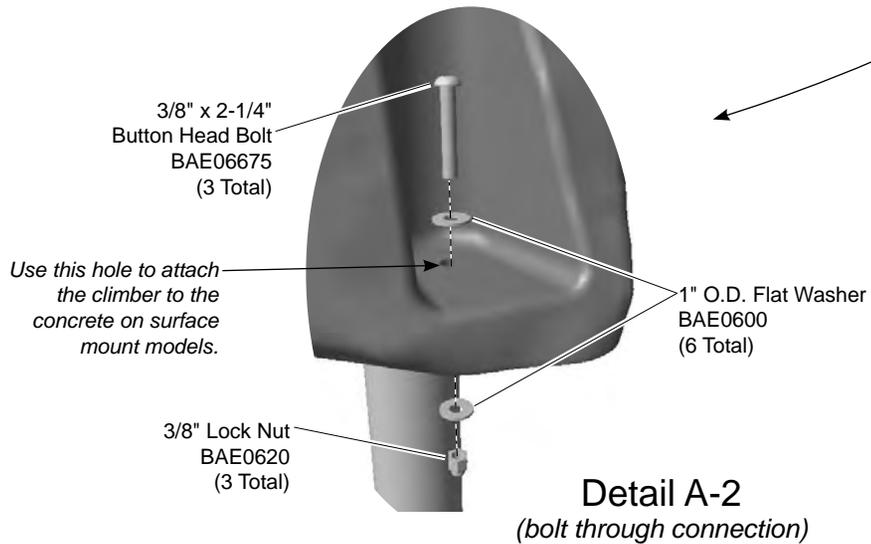
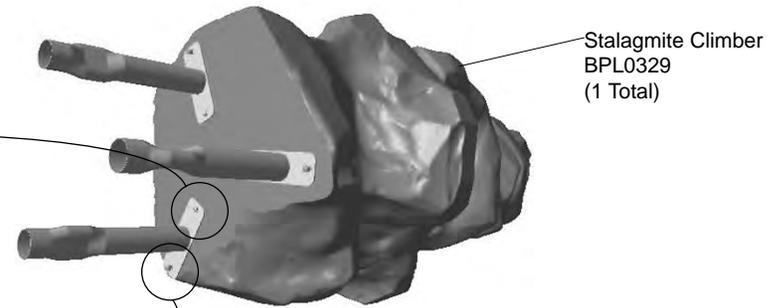
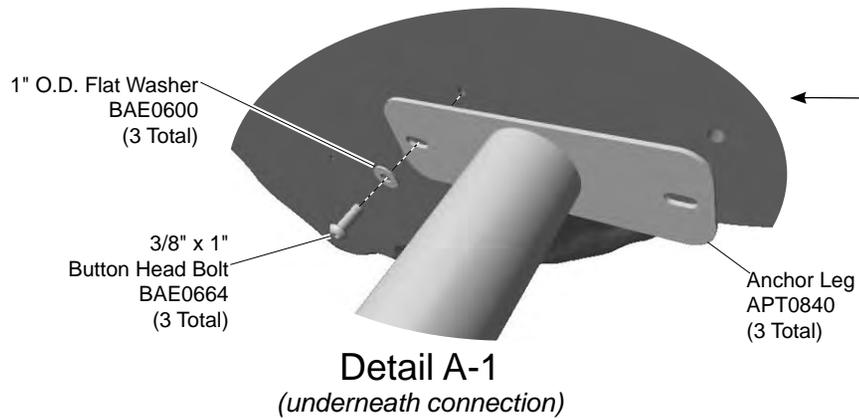
3 Ft. (914 mm) Deck

Footing Diagrams (Surface Mount Model)

Note: Footings are wider than in ground models due to only the outside hole in the Stalagmite being used for mounting to the concrete.

Installation Instructions

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



This ledge will face
the 4 ft. deck

This ledge will face
the 3 ft. deck

This ledge will face
the 2 ft. deck



Stalagmite Climber Deck
Placement Reference

Details A-1 and A-2

Step 4

Attach the anchor legs to the climber
(in-ground model only).



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** in the Annex at the end of this document. Use the **Component Footing Detail** for the in-ground model. Reference the appropriate **Footing Diagram** for placement of the footings in conjunction with a deck.

Step 4: Attach the anchor legs to the climber (in-ground model only). See **Details A-1 and A-2**. Position the legs beneath the climber and attach as shown. Attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Final Details.

Step 5: Plumb and level the climber in, or on, it's footings. Ensure the climber is turned in the right direction for the height of the deck. See the **Stalagmite Climber Deck Placement Reference**.

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

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

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

Step 6: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.



UN8246 - ROCKBLOCKS STALAGMITE CLIMBER

PART NO.	DESCRIPTION	QTY.
APT0840	POST - 22.50" x 12.00" x 4.00"	3
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	3
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	3
BPL0329	ROCK BLOCKS - STALAGMITE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

UN8246S - ROCKBLOCKS STALAGMITE CLIMBER SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
BPL0329	ROCK BLOCKS - STALAGMITE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

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

Welds

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

Finish

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

Footings

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance Universal Models Un8246 and UN8246S RockBlocks Stalagmite Climber for 2 ft. (610 mm), 3 ft. (914 mm) and 4 ft. (1219 mm) Decks In-Ground and Surface Mount



RockBlocks™



Inspection Form

Preventive Maintenance

... for Safety's Sake!

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

INSPECTION CHECKLIST

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

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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



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

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.
- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

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

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

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

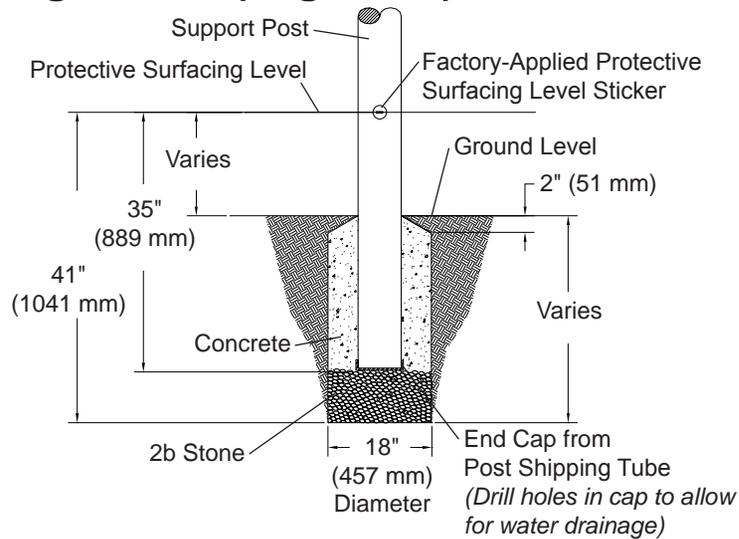
Maintenance

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

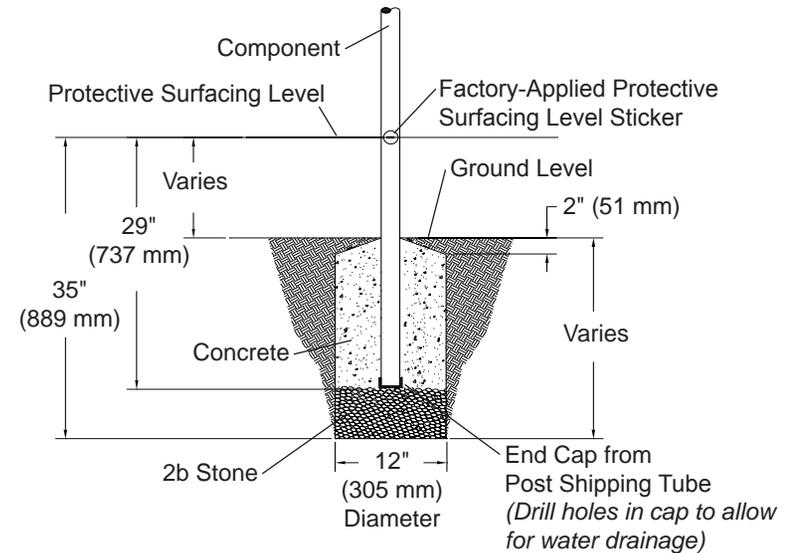
Supervision Guidelines

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

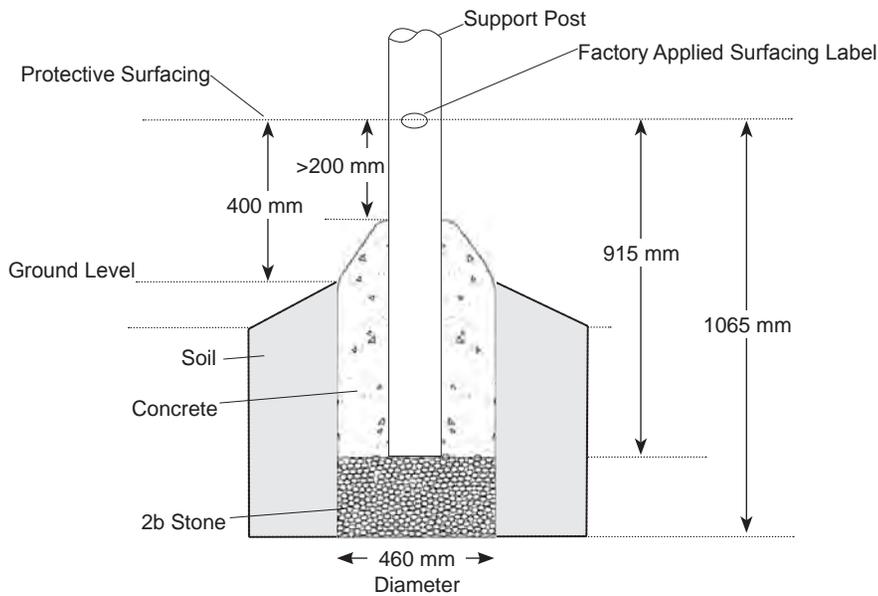
Footing Details (in ground)



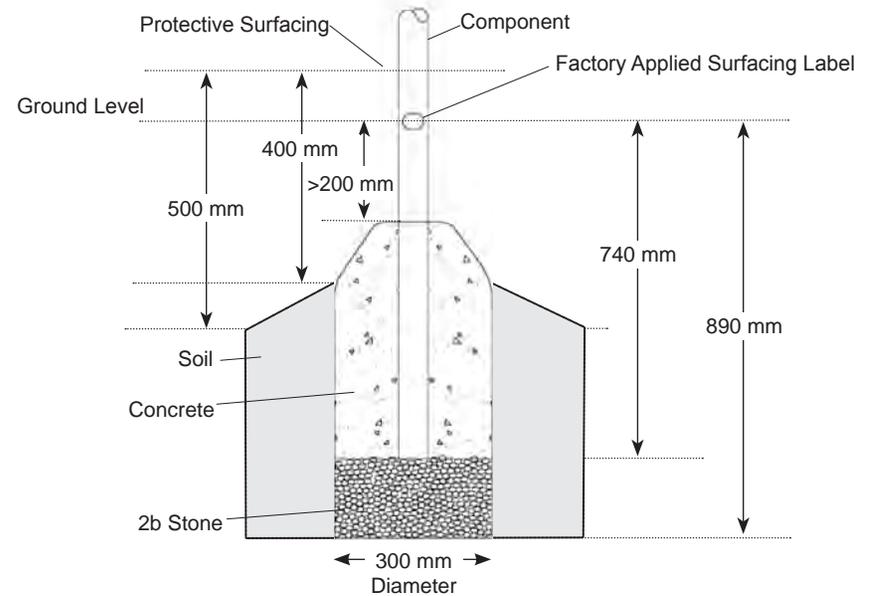
Support Post Footing Detail (ASTM/CSA)



End Wall Leg Footing Detail (ASTM/CSA)

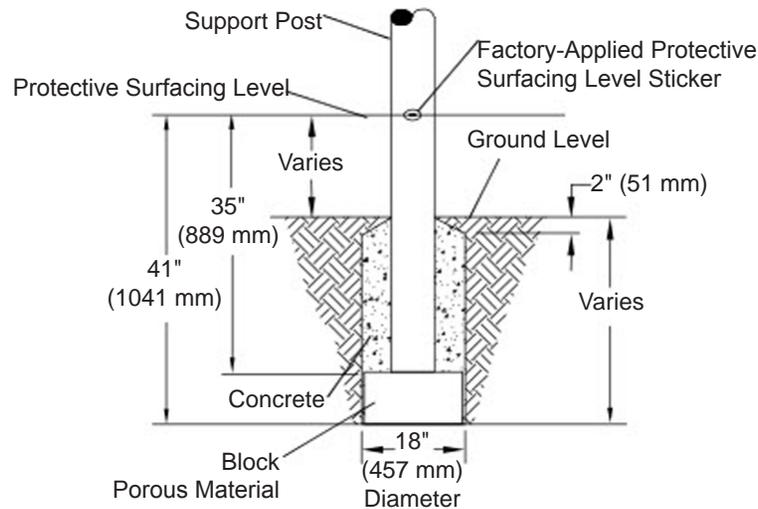


Footing Detail Support Post (EN)

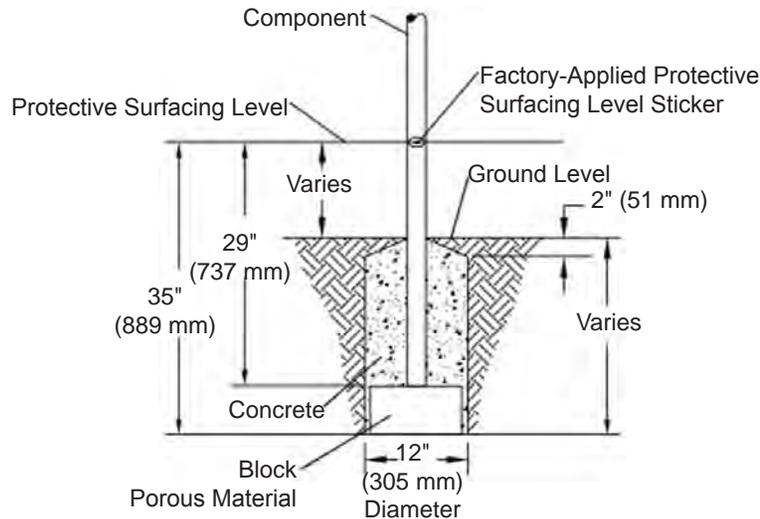


Footing Detail End Wall Leg (EN)

Footings Notes & Details



Support Post Footing Detail (ASTM/CSA)
Block Option

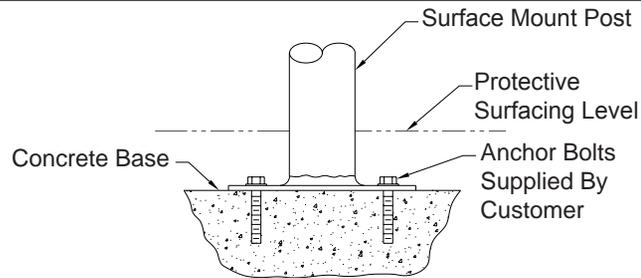


End Wall Leg Footing Detail (ASTM/CSA)
Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 41 in. (1041 mm) minus the depth of the protective surfacing material. The posts are designed to have 23" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 29 in. (737 mm).
- Component (end wall leg) footing depth equals 35 in. (890 mm) minus the depth of the protective surfacing material. The posts are designed to have 17" (432 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 23 in. (584 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

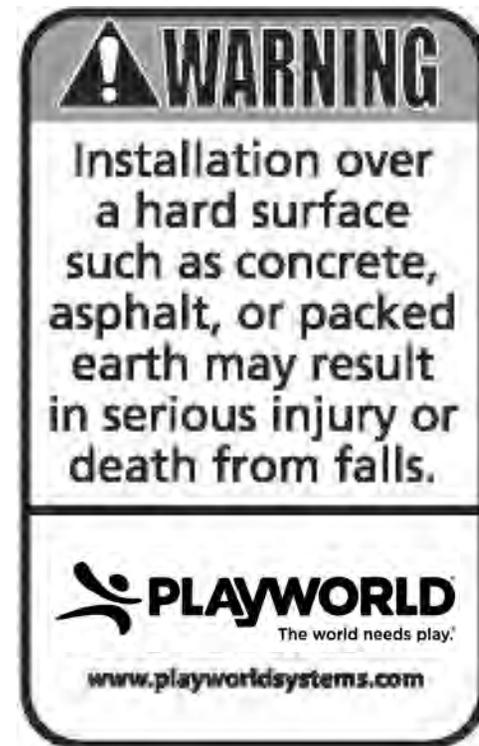
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective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

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

FINAL INSPECTION

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

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



Surfacing Warning Label

Installation Instructions
 Universal
 Models UN8396 & UN8428
 Adventure Log Hop
 12 in. (305 mm) & 16 in. (405 mm)



ZZUN8396



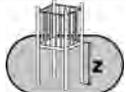
ZZUN8428

Assembly View

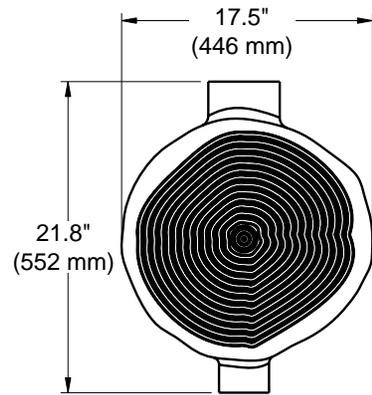
Models	Stump Height
ZZUN8396	12 in. (305 mm)
ZZUN8428	16 in. (405 mm)

Installation Preparation

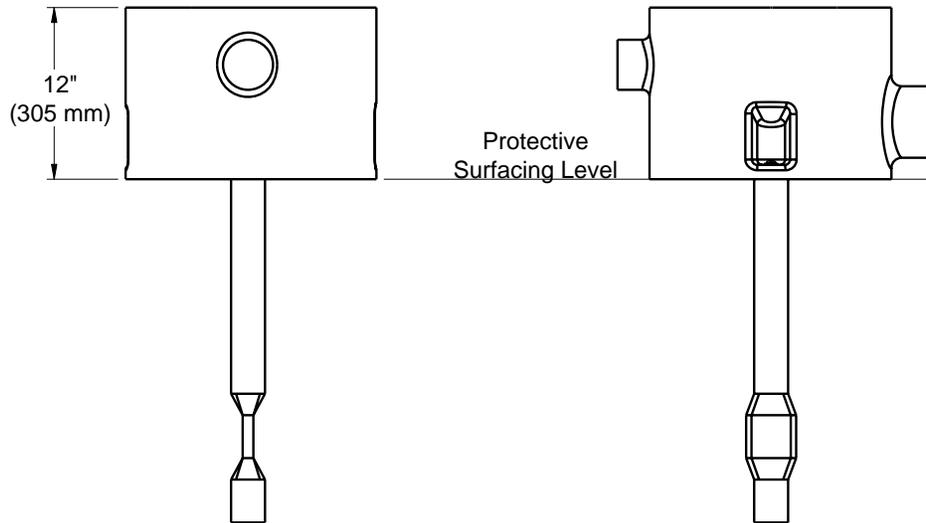
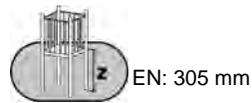
- Recommended Crew: One (1) adult
- Installation Time: 1 hour
- Concrete Required: 0.03 cubic yard (0,02 cubic meters)
- Use Zone: Refer to Master Drawing
- User Group Age (years): 12 in. - ASTM/CSA: 2-12, EN: 2-14
- 16 in. - ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Dig Footing Holes
	Critical Fall Height
	Pour Concrete

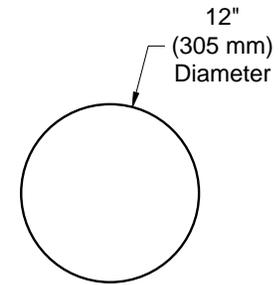
Installation Instructions



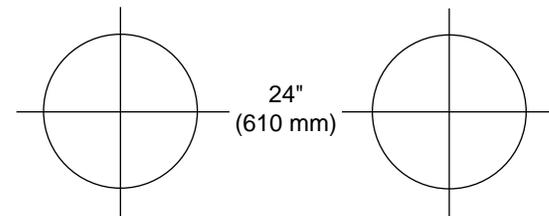
Top View



Elevation Views
ZZUN8396

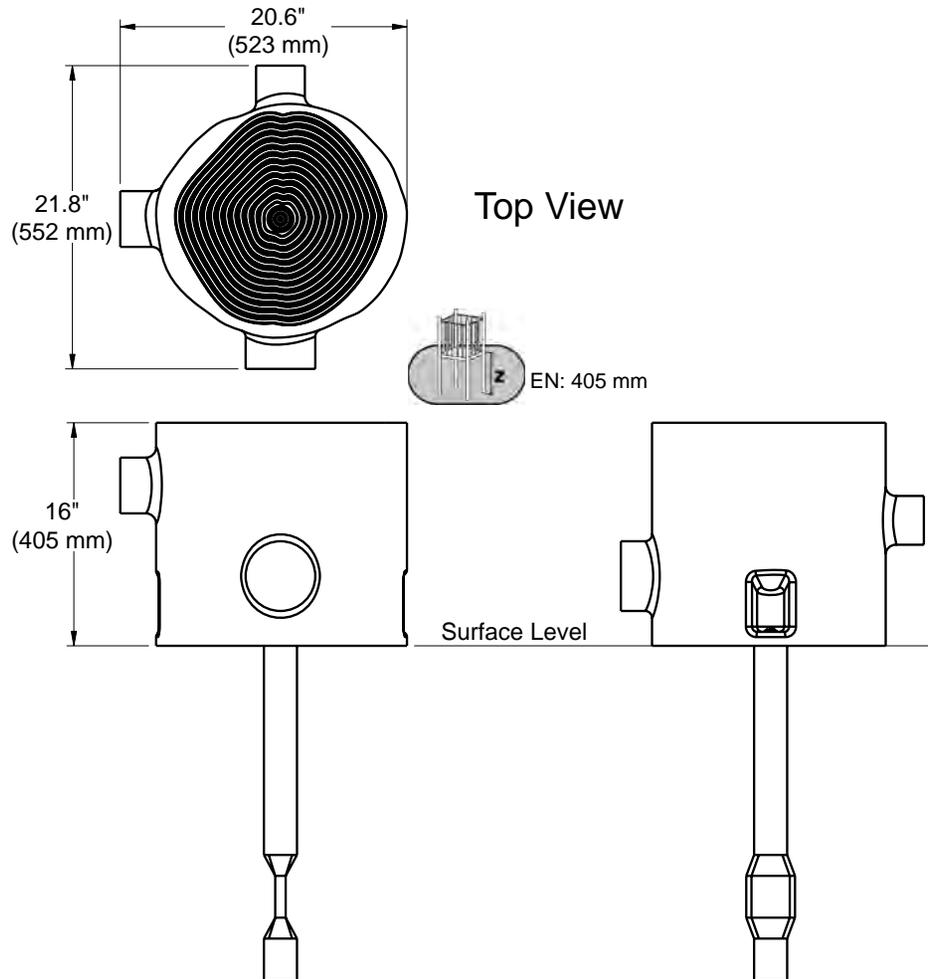


Footings Diagram
(Both Models)



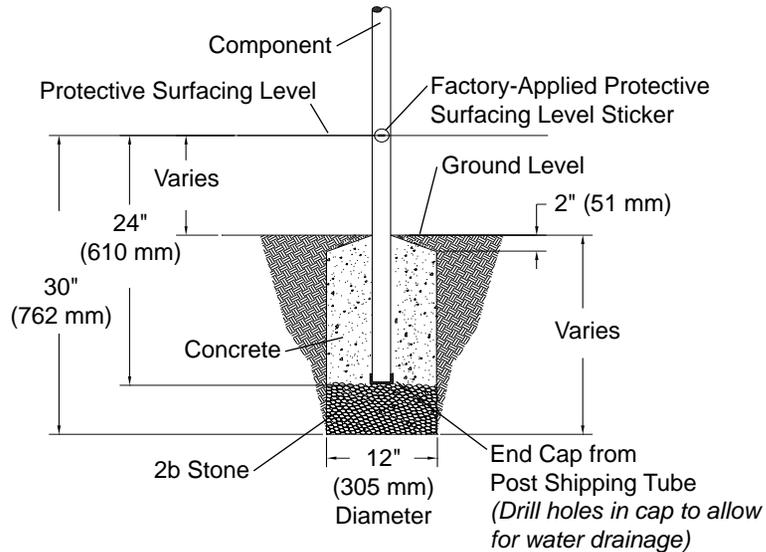
For multiple stump placement, be sure to maintain 24" (610 mm) centers between the anchor frames

Installation Instructions

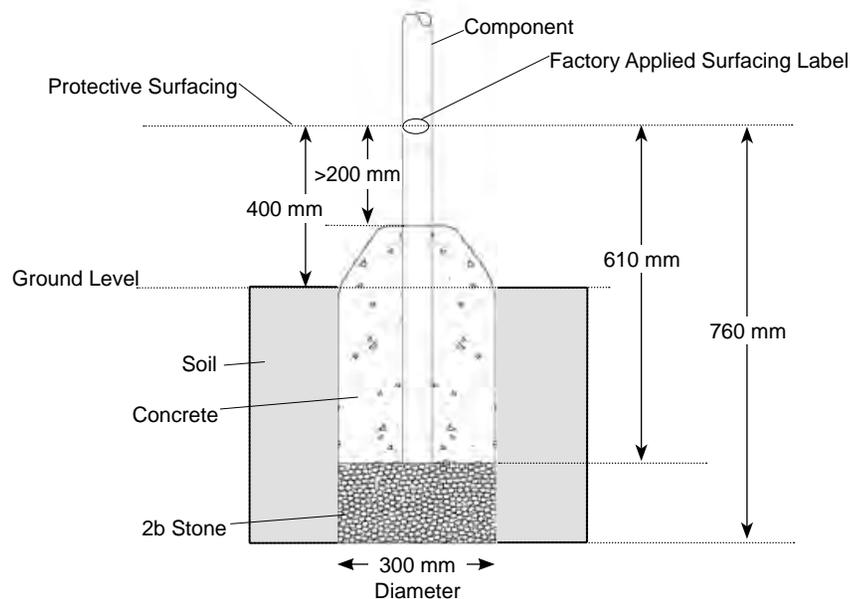


Elevation Views
ZZUN8428

Installation Instructions



Component Footing Detail (ASTM/CSA)



Footing Detail Component Post (EN)

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.

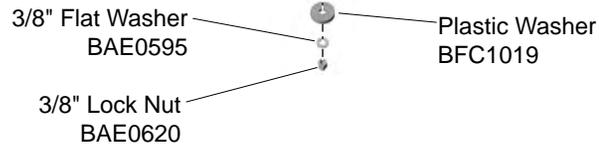
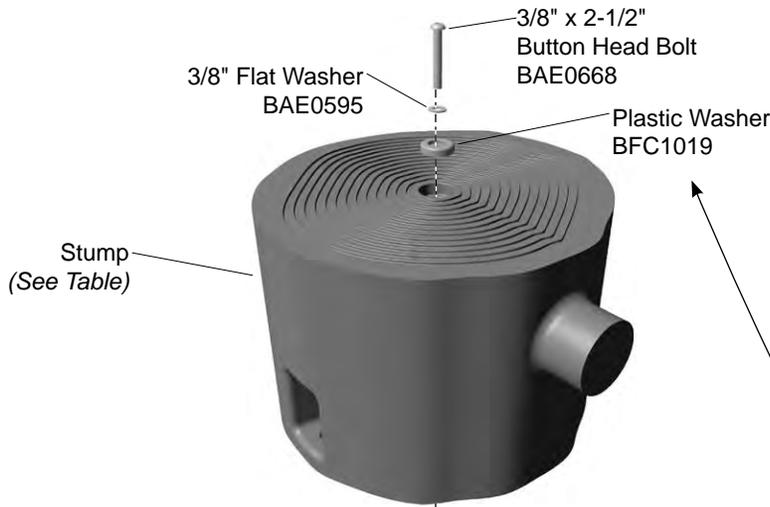
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

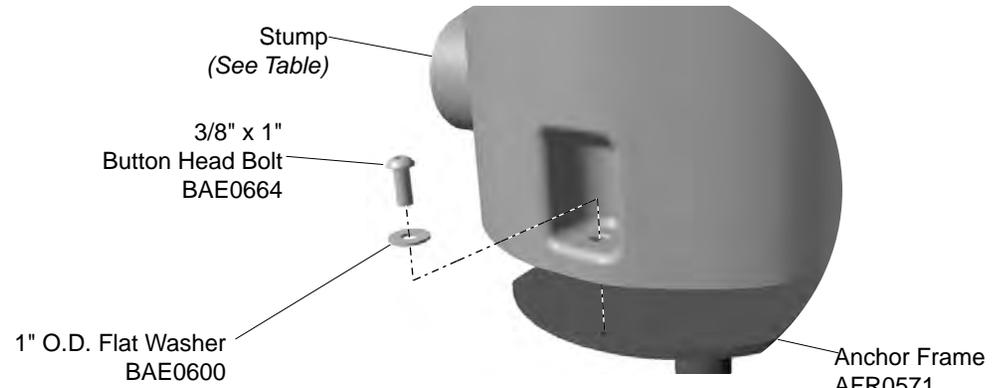
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



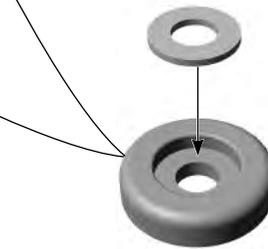
Step 3



**Detail A
Step 4**



**Detail B
Step 5**



Flat washer will fit into the routed out portion of the plastic washer.



Step 6

Models	Stump Height	Stump Part No.
ZZUN8396	12 in. (305 mm)	BPL0646
ZZUN8428	16 in. (405 mm)	BPL0644



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 exact placement of the component.

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

__Step 4: Attach the plastic washers to the stump. See **Detail A**. Select the stump, both plastic washers, and the appropriate hardware. Turn the plastic washers so the flat side faces the stump and attach as shown. Fully tighten the connection.

__Step 5: Attach the stump to the anchor frame. See **Detail B**. Select the stump assembly, and the appropriate hardware. There are (2) two connections. Position the stump on the frame with the holes aligned and attach as shown.

Final Details.

__Step 6: Place the stump assembly in the footing and plumb and level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

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



UN8396 - ADVENTURE LOG HOP - 12 in. (305 mm)

PART NO.	DESCRIPTION	QTY.
AFR0571	FRAME - 15-3/4" x 11" x 24-3/8"	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	1
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1
BFC1019	SHEET - 1.56" O.D. x .38" THICK	2
BPL0646	STUMP - 12"	1

UN8428 - ADVENTURE LOG HOP - 16 in. (405 mm)

PART NO.	DESCRIPTION	QTY.
AFR0571	FRAME - 15-3/4" x 11" x 24-3/8"	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	1
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1
BFC1019	SHEET - 1.56" O.D. x .38" THICK	2
BPL0644	STUMP - 16"	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.

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.

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.

Footings

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance Universal Models UN8396 & UN8428 Adventure Log Hop 12 in. (305 mm) & 16 in. (405 mm)



ZZUN8396



ZZUN8428



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Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

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

Inspection Codes

P = Pass F = Fail
NA = Not Applicable

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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



Installation Instructions
 Universal
 Models UN8396 & UN8428
 Adventure Log Hop
 12 in. (305 mm) & 16 in. (405 mm)



ZZUN8396



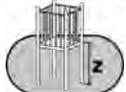
ZZUN8428

Assembly View

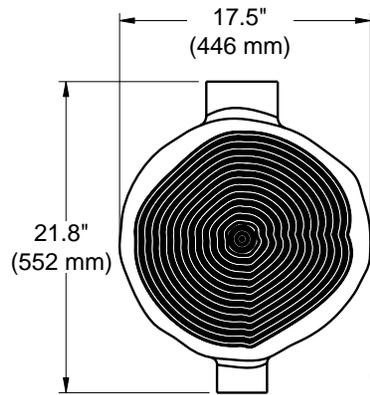
Models	Stump Height
ZZUN8396	12 in. (305 mm)
ZZUN8428	16 in. (405 mm)

Installation Preparation

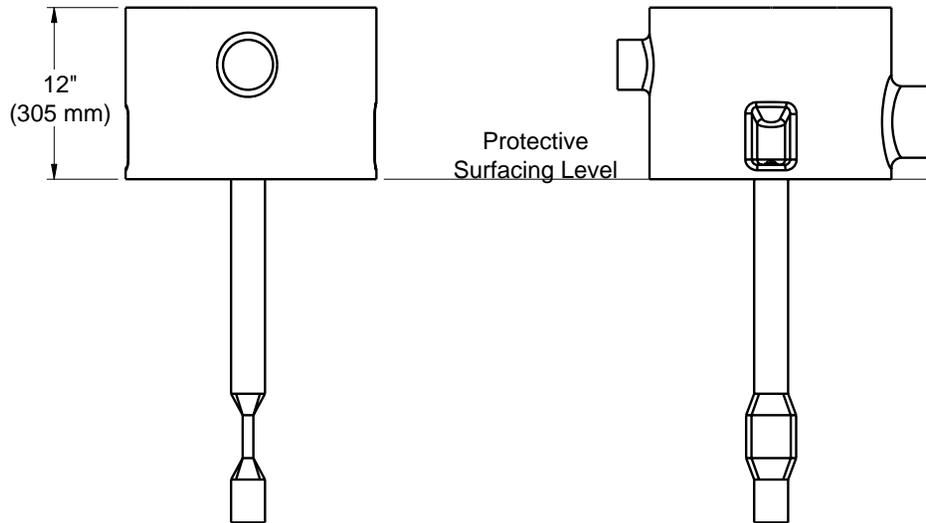
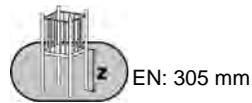
- Recommended Crew: One (1) adult
- Installation Time: 1 hour
- Concrete Required: 0.03 cubic yard (0,02 cubic meters)
- Use Zone: Refer to Master Drawing
- User Group Age (years): 12 in. - ASTM/CSA: 2-12, EN: 2-14
- 16 in. - ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Dig Footing Holes
	Critical Fall Height
	Pour Concrete

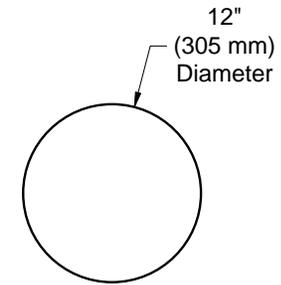
Installation Instructions



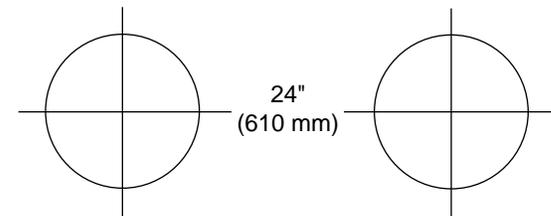
Top View



Elevation Views
ZZUN8396

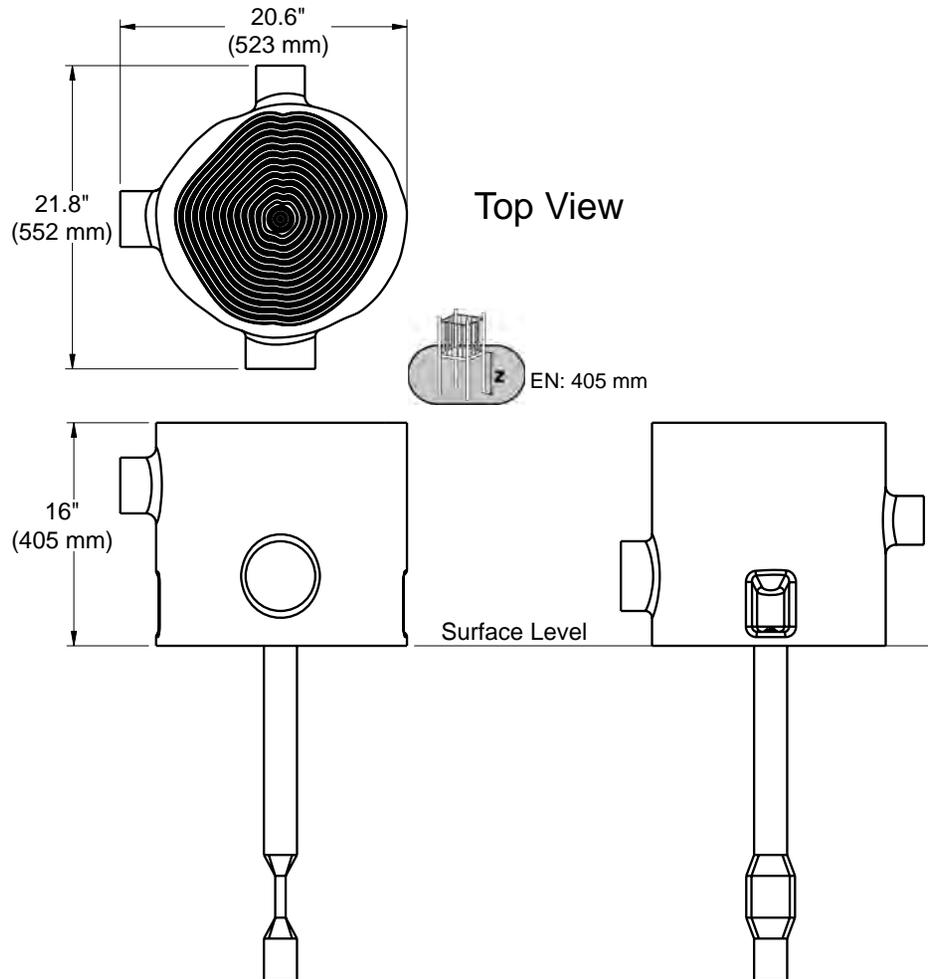


Footings Diagram
(Both Models)



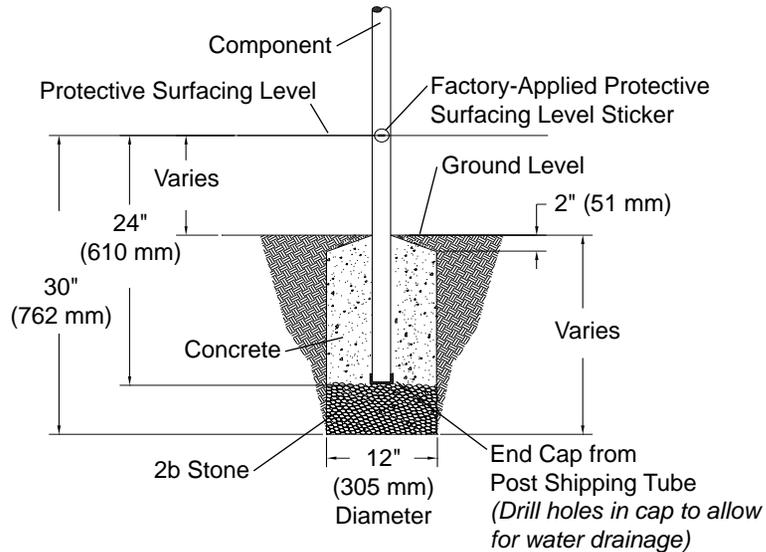
For multiple stump placement, be sure to maintain 24" (610 mm) centers between the anchor frames

Installation Instructions

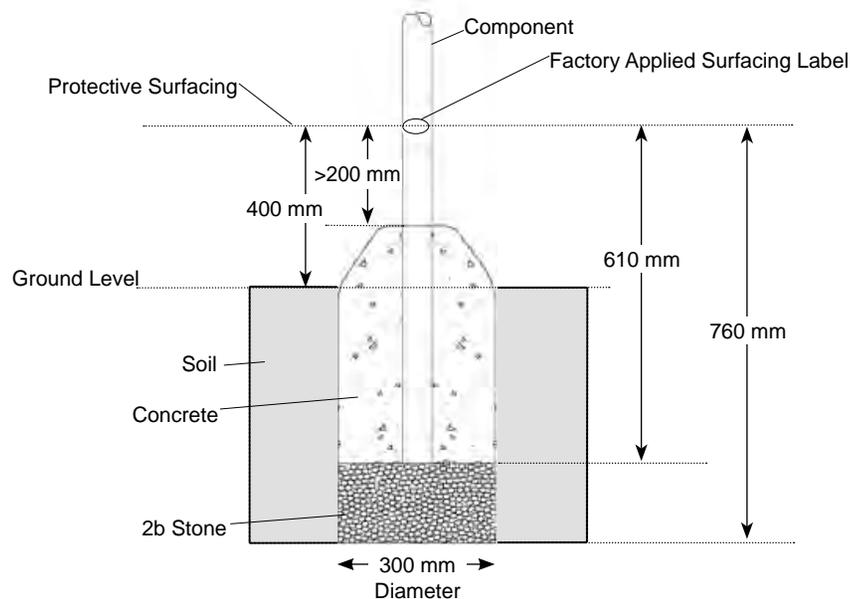


Elevation Views
ZZUN8428

Installation Instructions



Component Footing Detail (ASTM/CSA)



Footing Detail Component Post (EN)

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.

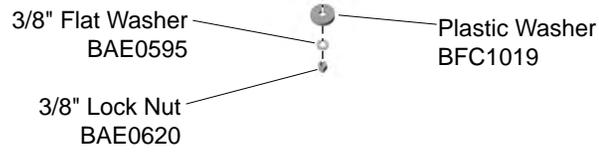
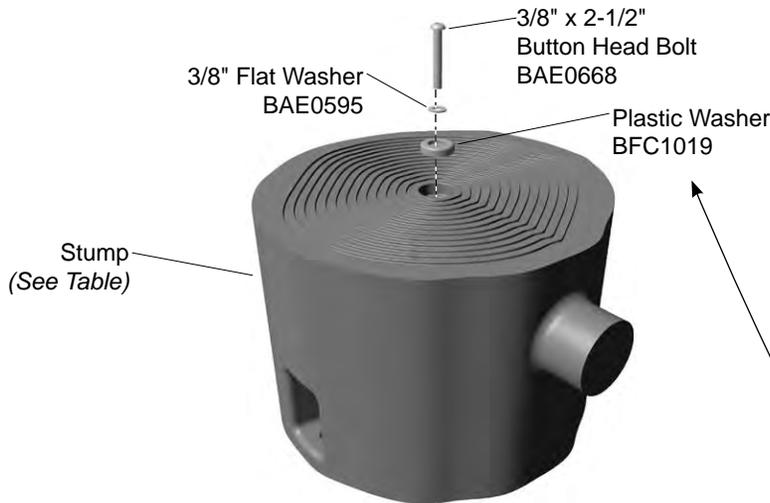
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

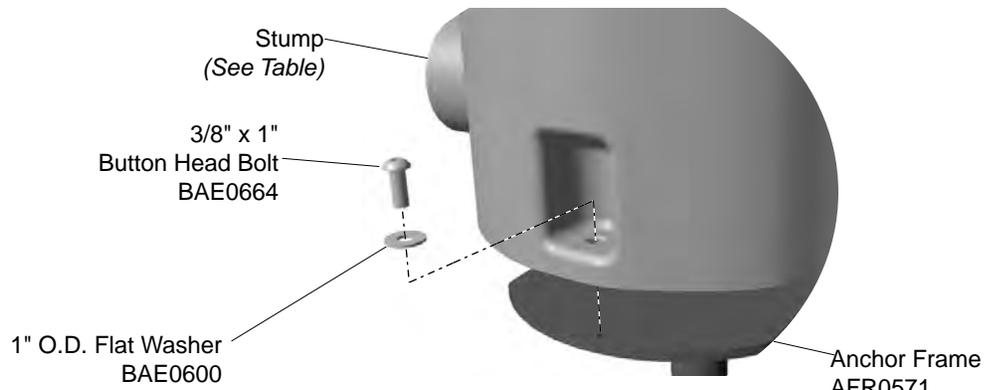
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



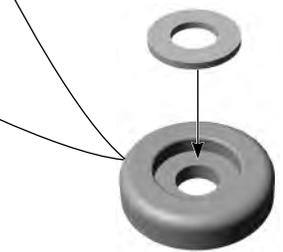
Step 3



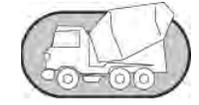
**Detail A
Step 4**



**Detail B
Step 5**



Flat washer will fit into the routed out portion of the plastic washer.



Step 6

Models	Stump Height	Stump Part No.
ZZUN8396	12 in. (305 mm)	BPL0646
ZZUN8428	16 in. (405 mm)	BPL0644



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 exact placement of the component.

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

__Step 4: Attach the plastic washers to the stump. See **Detail A**. Select the stump, both plastic washers, and the appropriate hardware. Turn the plastic washers so the flat side faces the stump and attach as shown. Fully tighten the connection.

__Step 5: Attach the stump to the anchor frame. See **Detail B**. Select the stump assembly, and the appropriate hardware. There are (2) two connections. Position the stump on the frame with the holes aligned and attach as shown.

Final Details.

__Step 6: Place the stump assembly in the footing and plumb and level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

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



UN8396 - ADVENTURE LOG HOP - 12 in. (305 mm)

PART NO.	DESCRIPTION	QTY.
AFR0571	FRAME - 15-3/4" x 11" x 24-3/8"	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	1
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1
BFC1019	SHEET - 1.56" O.D. x .38" THICK	2
BPL0646	STUMP - 12"	1

UN8428 - ADVENTURE LOG HOP - 16 in. (405 mm)

PART NO.	DESCRIPTION	QTY.
AFR0571	FRAME - 15-3/4" x 11" x 24-3/8"	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	1
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1
BFC1019	SHEET - 1.56" O.D. x .38" THICK	2
BPL0644	STUMP - 16"	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.

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.

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.

Footings

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance Universal Models UN8396 & UN8428 Adventure Log Hop 12 in. (305 mm) & 16 in. (405 mm)



ZZUN8396



ZZUN8428



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Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

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

Inspection Codes
P = Pass F = Fail NA = Not Applicable

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

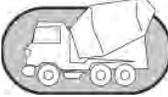
Playworld Systems®

Models XX0260, XX0261, & XX0324

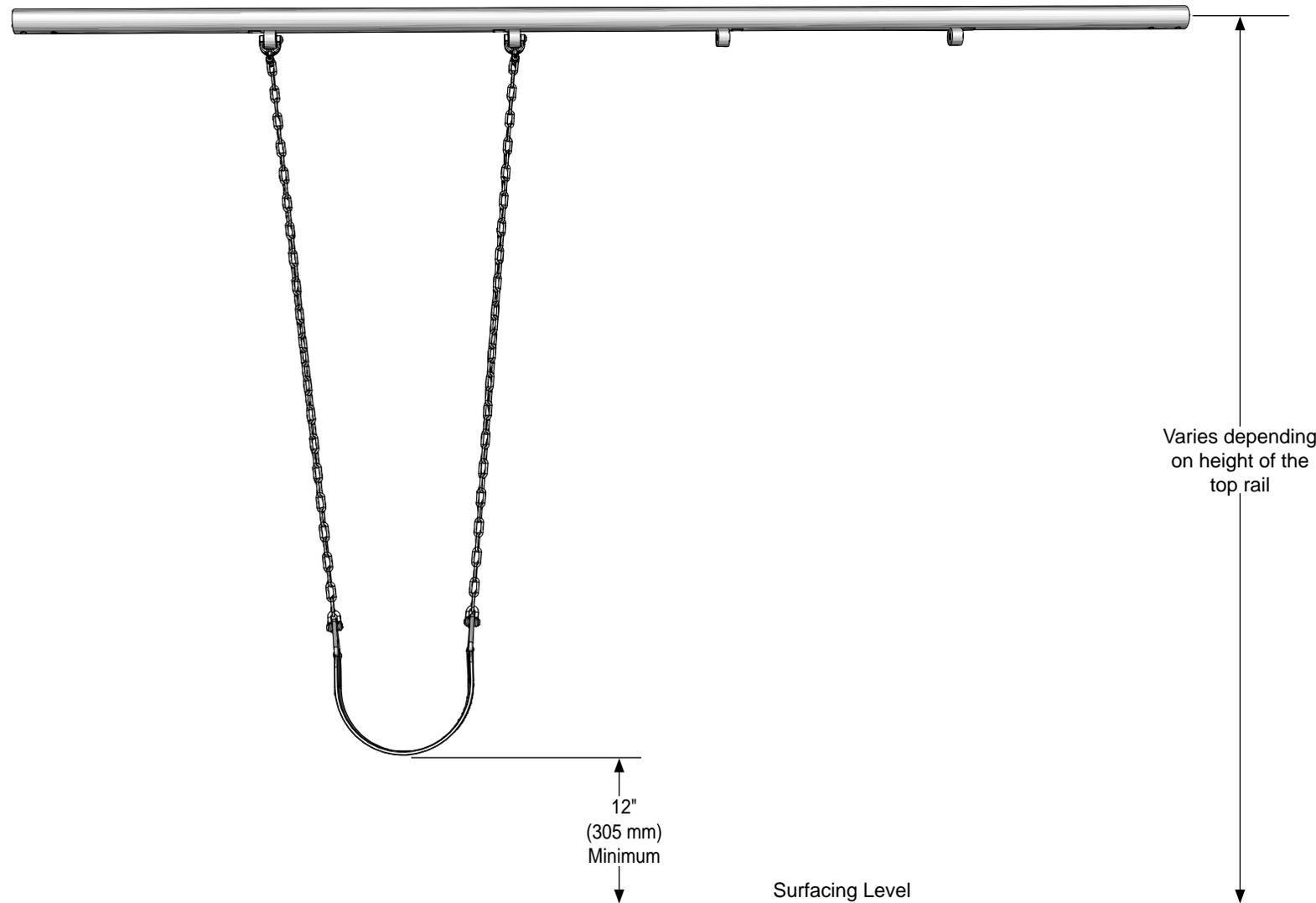
Belt Seat with Swing Chain

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

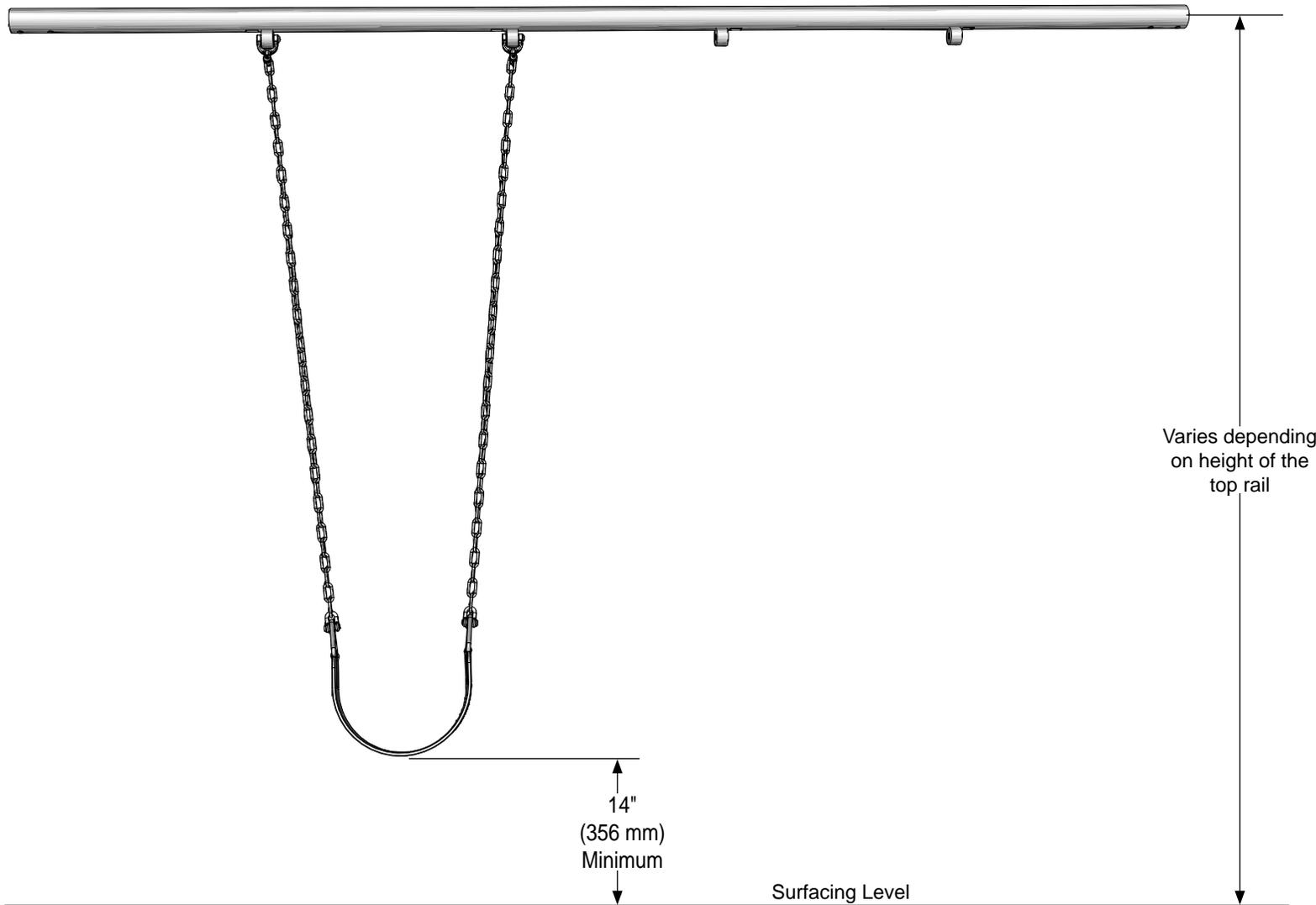
Installation Instructions



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



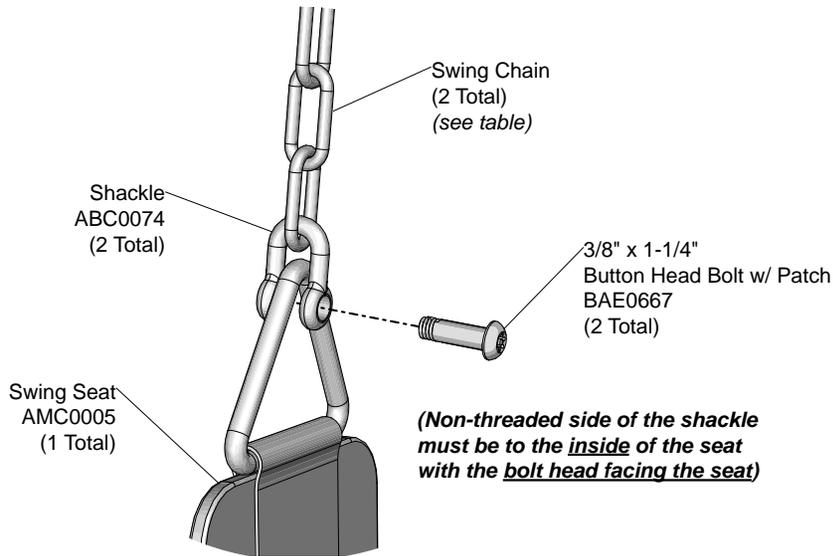
Elevation View
(EN)

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)



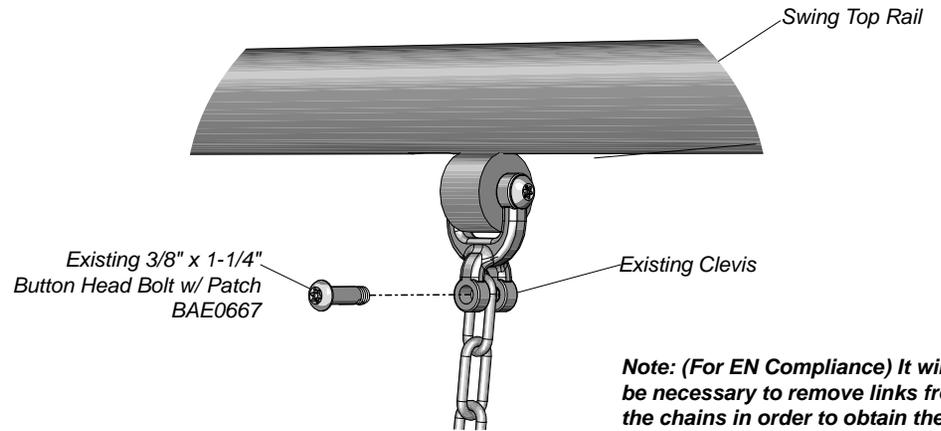
Installation Instructions

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.

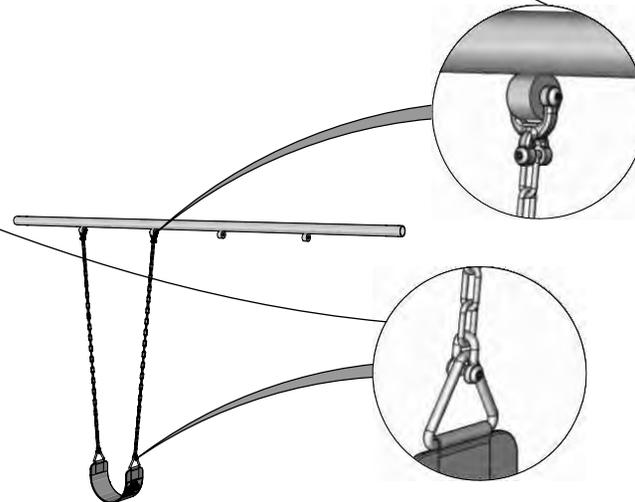


Detail B Step 4

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.

Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat. 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.



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

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

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



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



Inspection Form

Preventive Maintenance

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

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect 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: ___ / ___ / ___



Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain



Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

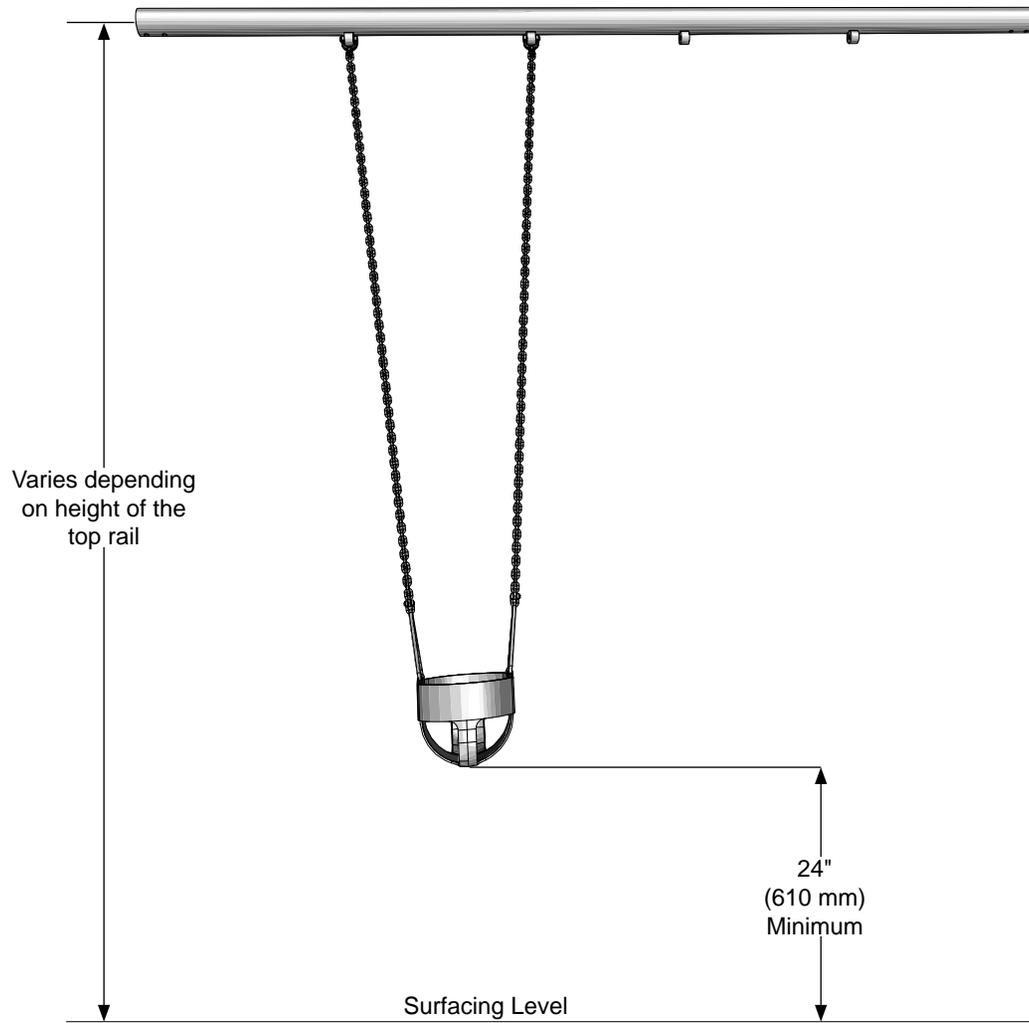
Model Number	Top Rail Height
ZZXX0325	7 ft. (2134 mm)
ZZXX0265	8 ft. (2440 mm)
ZZXX0266	10 ft. (3050 mm)

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM: 2-5, CSA: 1.5-5, EN: 2-5

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

Installation Instructions



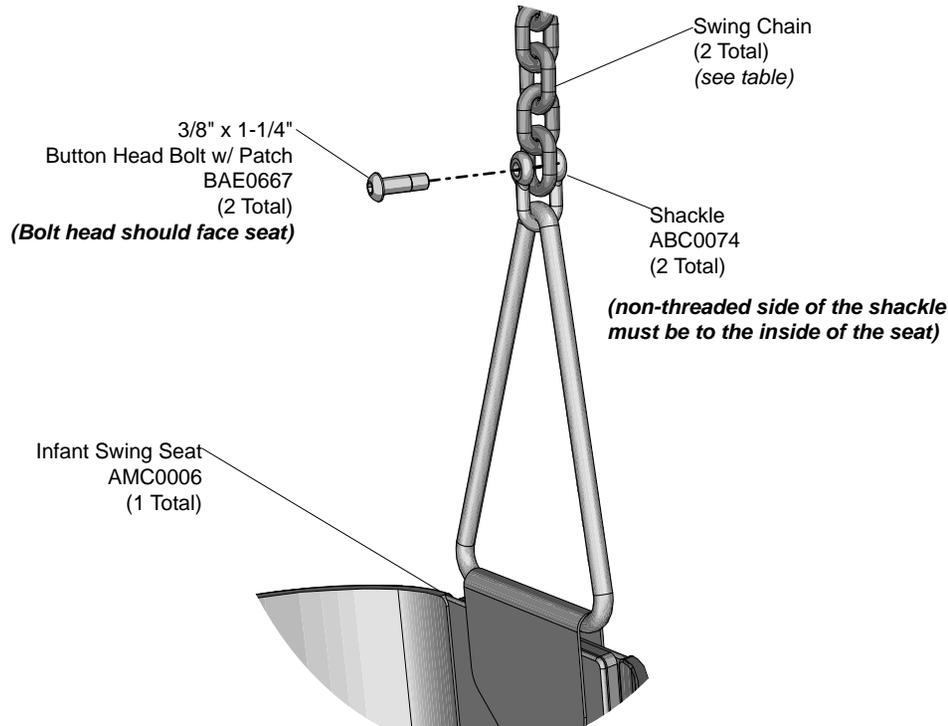
Elevation View

Model Number	Critical Fall Height	Top Rail Height
ZZXX0325	53 in. (1345 mm)	7 ft. (2134 mm)
ZZXX0265	60 in. (1525 mm)	8 ft. (2440 mm)
ZZXX0266	72 in. (1830 mm)	10 ft. (3050 mm)



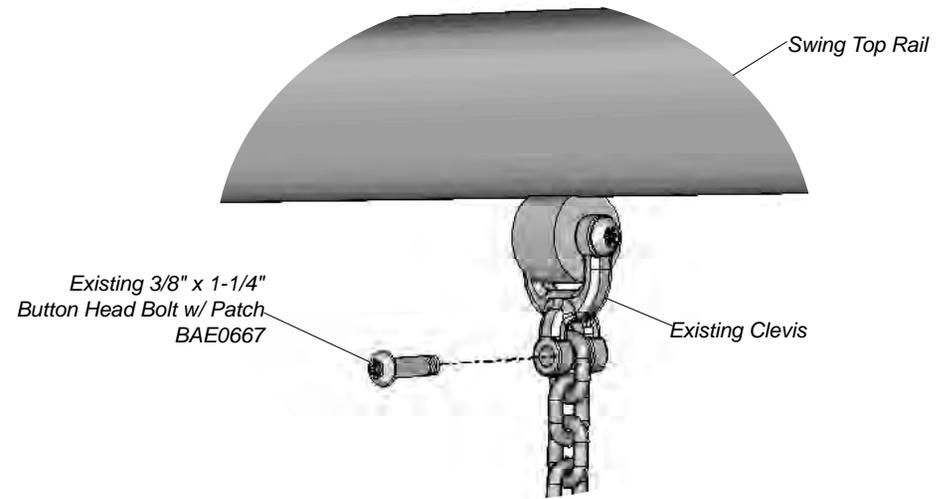
Installation Instructions

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



Detail A Step 3

Attach the swing seat to the swing chains.



Detail B Step 4

Attach the swing seat assembly to the existing swing hangers.

Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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. *The bolt head should always be on the inside (seat side) of the connection.* 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**. 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.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.



ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN
- 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 SWING	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN
- 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 SWING	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN
- 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 SWING	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



Inspection Form

Preventive Maintenance

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- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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



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

Installation Guidelines

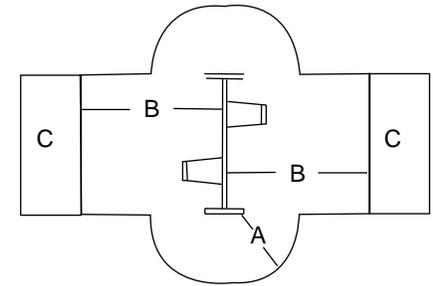
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be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

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones

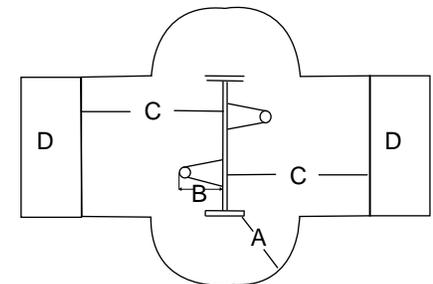
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

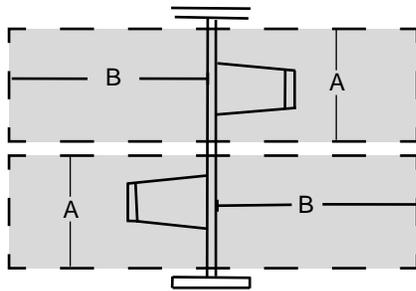
(EN)

For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = (0.867 x Distance from pivot point to seat) + *either* 1750 mm if unitary surfacing *or* 2250 mm if loose-fill surfacing is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcy. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**
- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Installation Instructions

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

Maintenance

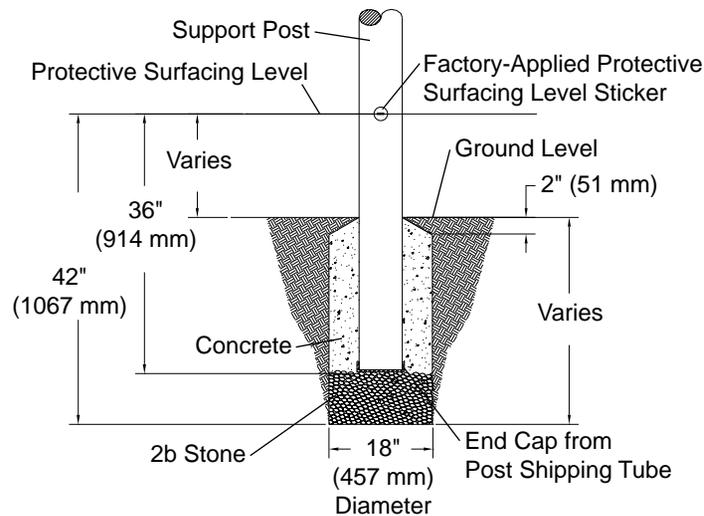
- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment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

Supervision Guidelines

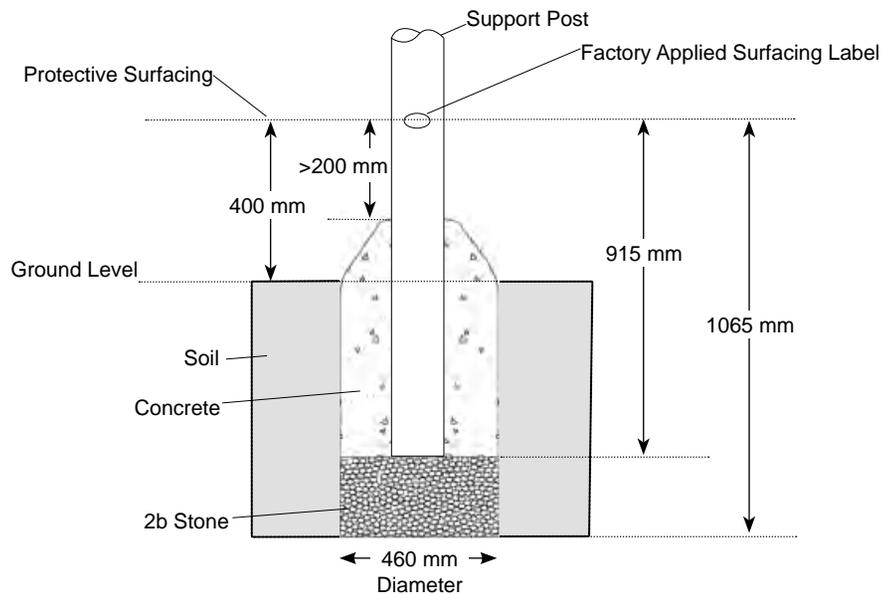
- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use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



Installation Instructions



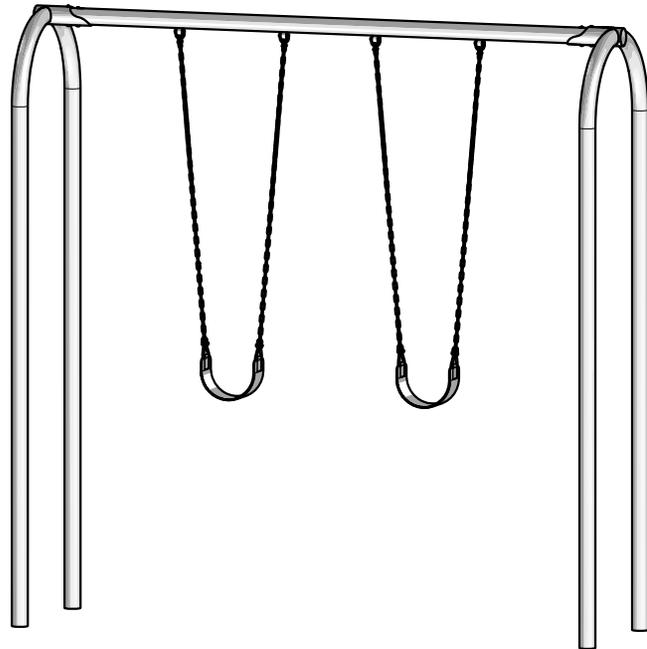
Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

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



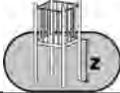
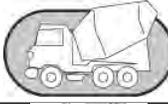
Assembly View

Installation Instructions

Playworld Systems[®] Model ZZXX0815
3-1/2 in. Outside Diameter
2-Unit Steel Arch Swing
with 8 ft Top Rail

Installation Preparation

Recommended Crew: Three (3) adults
 Installation Time: 3 man-hours
 Concrete Required: 0.52 cubic yard (0,40 cubic meters)
 Use Zone: Refer to the information on pages 1 & 2
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

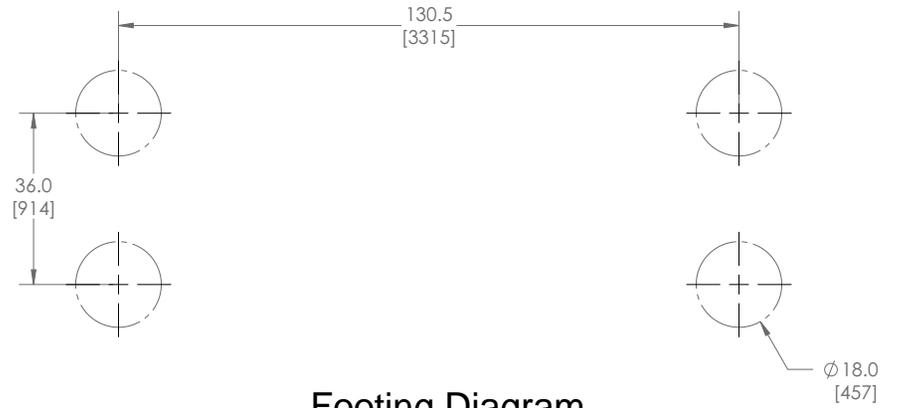
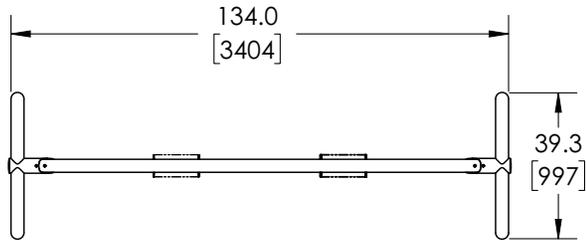
ICON KEY			
	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

Installation Instructions

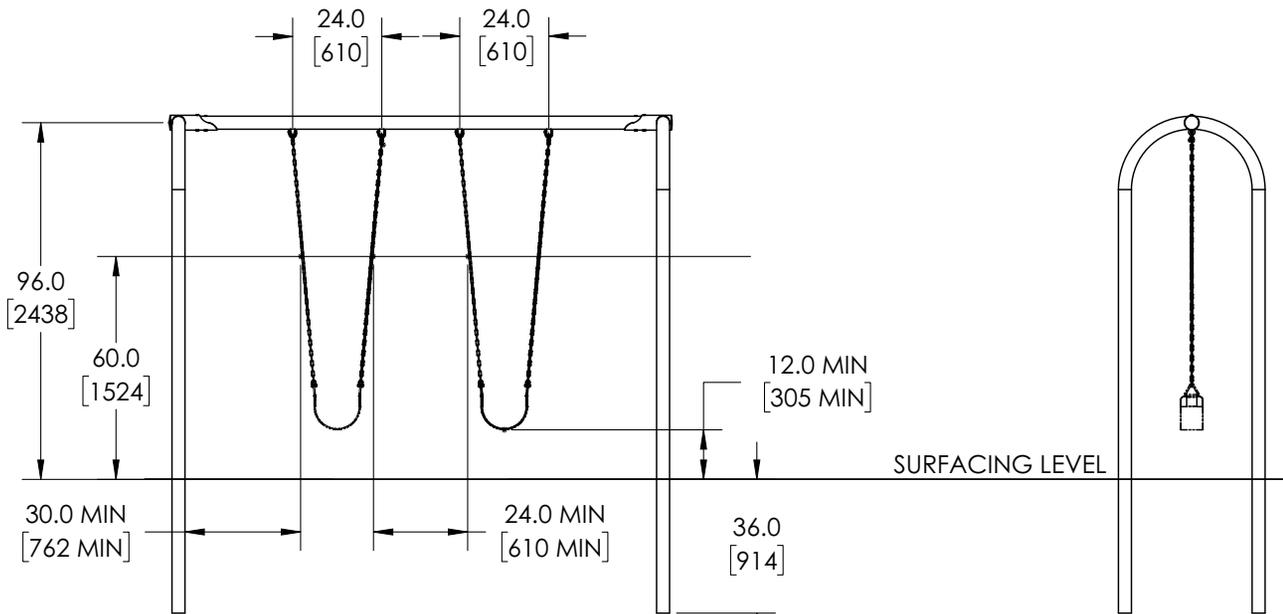
KEY

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

Top View



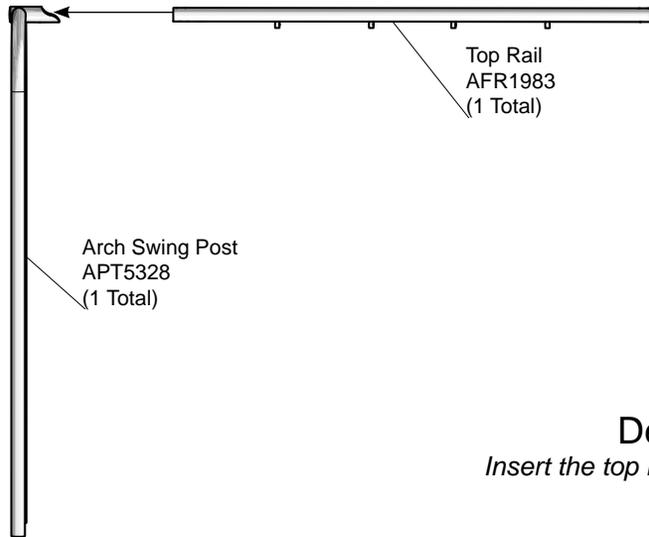
Footing Diagram



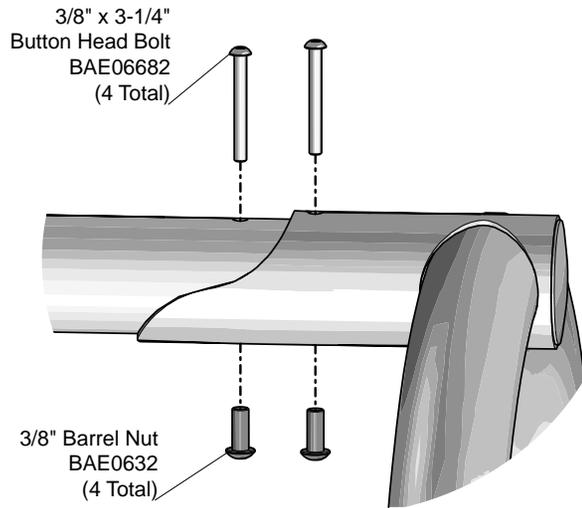
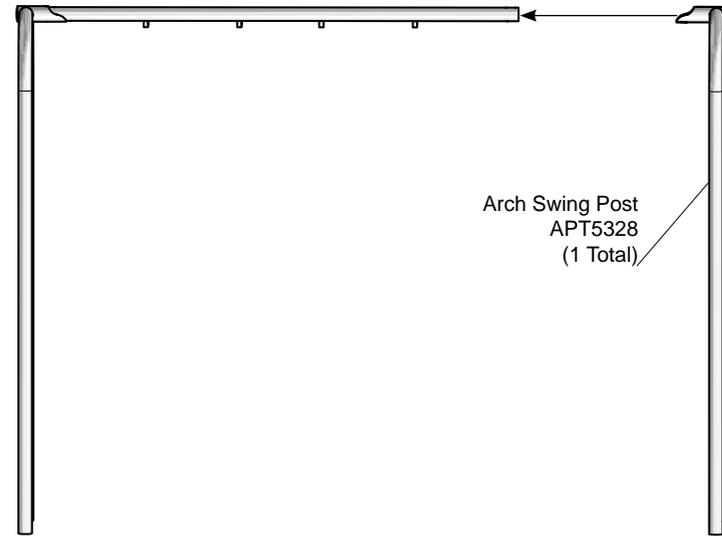
Elevation Views

Installation Instructions

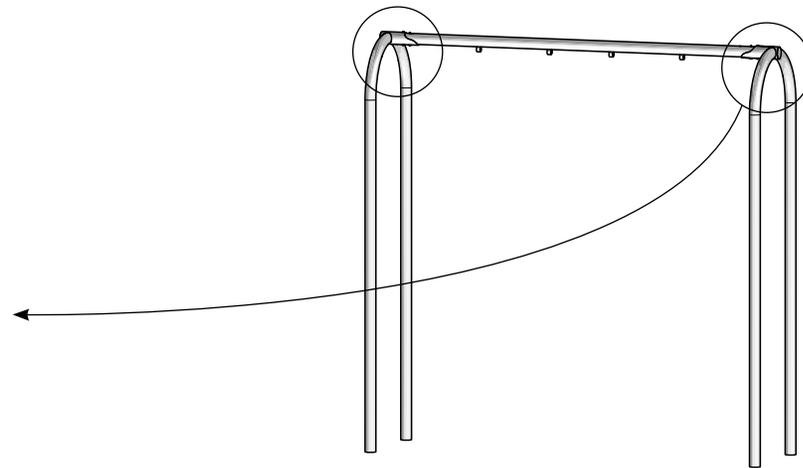
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A-1
Insert the top rail into the arch posts.



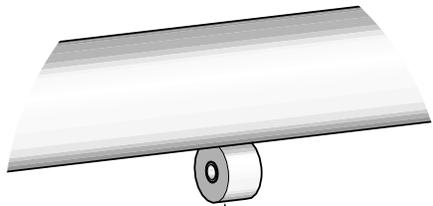
Detail A-2
Attach the top rail to the arch posts.



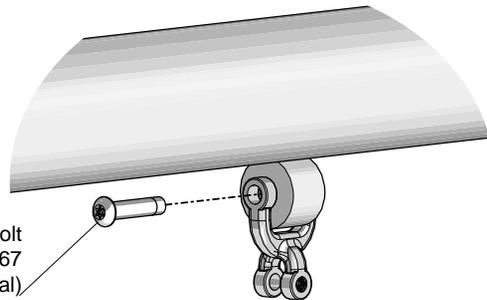
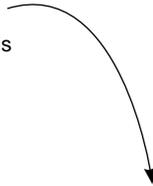
Details A-1 and A-2
Step 4

Attach the top rail to the arch support posts.

Installation Instructions



Swing Clevis
984429
(4 Total)



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

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



Detail B Step 6

Attach the swing clevises to the top rail.



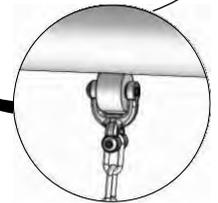
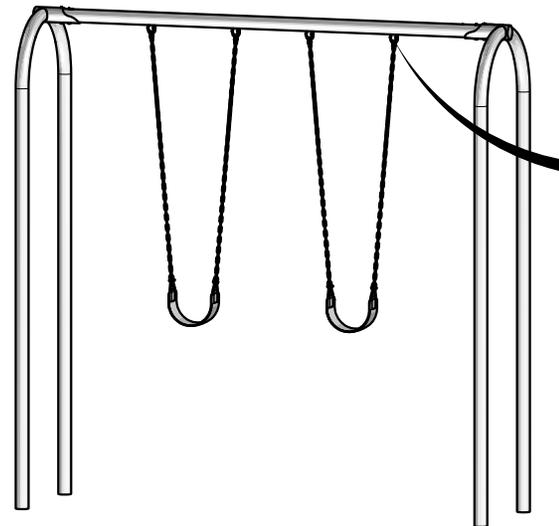
***Insert through the non-threaded side of the clevis first.

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



Detail C Step 7

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



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

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

Step 5: Place the swing frame assembly into previously excavated footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts. Block and brace for concrete. Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the Footing Detail. Allow concrete to harden for 72 hours before proceeding with **Step 6**.

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

Step 7: Thread bolt into the swing clevis. See **Detail C**. The clevis has a threaded and non-threaded side. Insert the bolt through the non-threaded side and thread into the other side of the clevis.

Note: The bolt will need to be removed to insert the chain for the swing seat.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

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

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

XX0815 - 3-1/2 in. O.D. STEEL ARCH SWING WITH 8 ft. TOP RAIL

PART NO.	DESCRIPTION	QTY.
104467	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	4
984429	CLEVIS - SWING HANGER	4
AFR1983	TOP RAIL - 3.50" O.D. x 5.20" x 122.10"	1
APT5328	POST - 3.50" O.D. x 134" x 11 GA STEEL ARCH	2
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	4
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/ NYLON PATCH	4
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06682	BOLT - 3/8"-16 x 3.25" BUTTON HEAD - SS	4
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	1

 **PLAYWORLD**
The world needs play.[®]

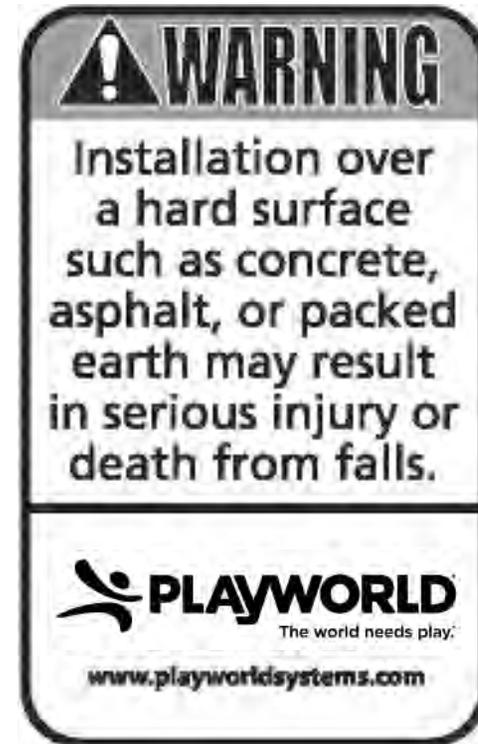
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworld.com



FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
- Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
- Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
- Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
- Clean dried concrete off of components and any other affected surface.
- Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
- Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
- Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
- Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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Clamps

- Inspect clamps to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Visually inspect clamps for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

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

Finish

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

Footings

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

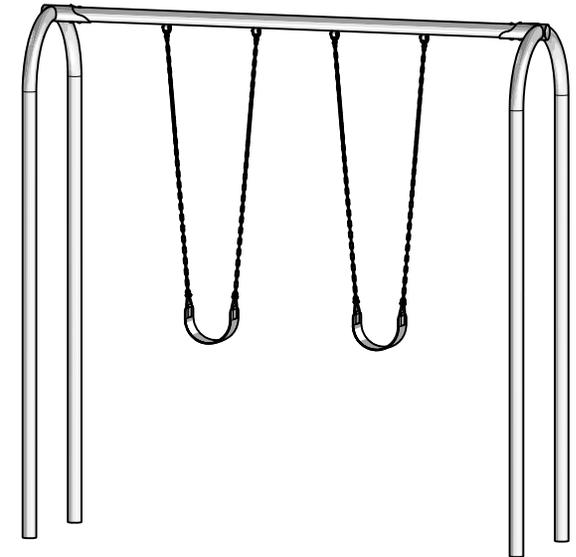
Surfacing

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

Replacement Parts

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

Equipment Maintenance Playworld Systems® Model XX0815 3-1/2 in. Outside Diameter 2-Unit Steel Arch Swing with 8 ft Top Rail



Inspection Form

Preventive Maintenance

... for Safety's Sake!

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

INSPECTION CHECKLIST

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

Inspection Codes P = Pass F = Fail NA = Not Applicable

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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



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

Installation Guidelines

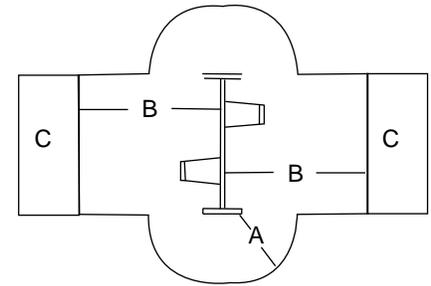
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be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

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones

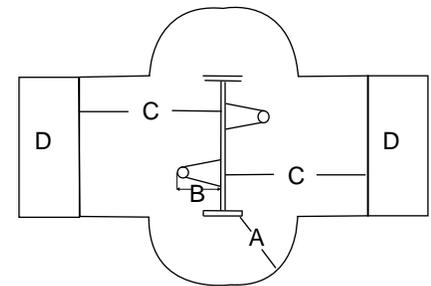
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

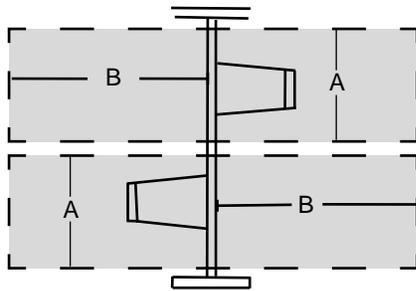
(EN)

• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = (0.867 x Distance from pivot point to seat) + *either* 1750 mm if unitary surfacing *or* 2250 mm if loose-fill surfacing is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbcy. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**
- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Installation Instructions

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

Maintenance

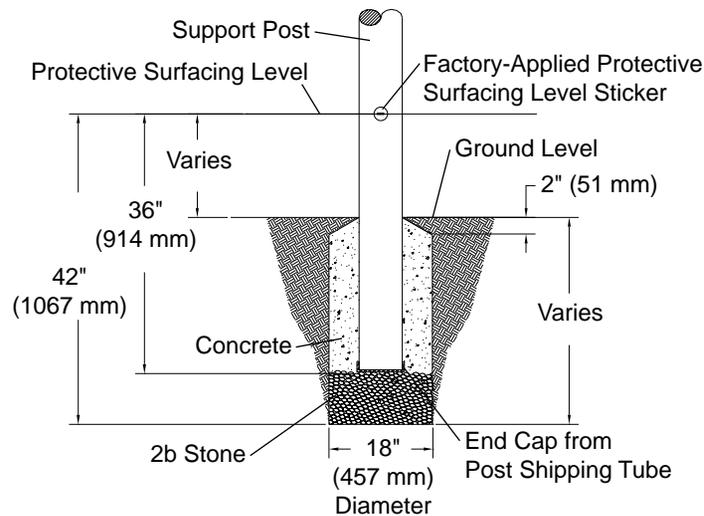
- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment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

Supervision Guidelines

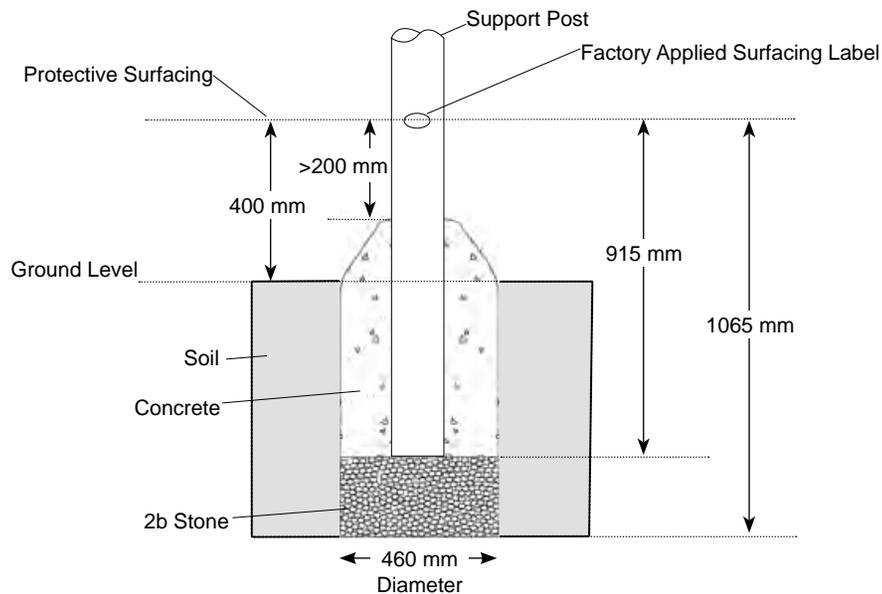
- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use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



Installation Instructions



Support Post Footing Detail (ASTM/CSA)



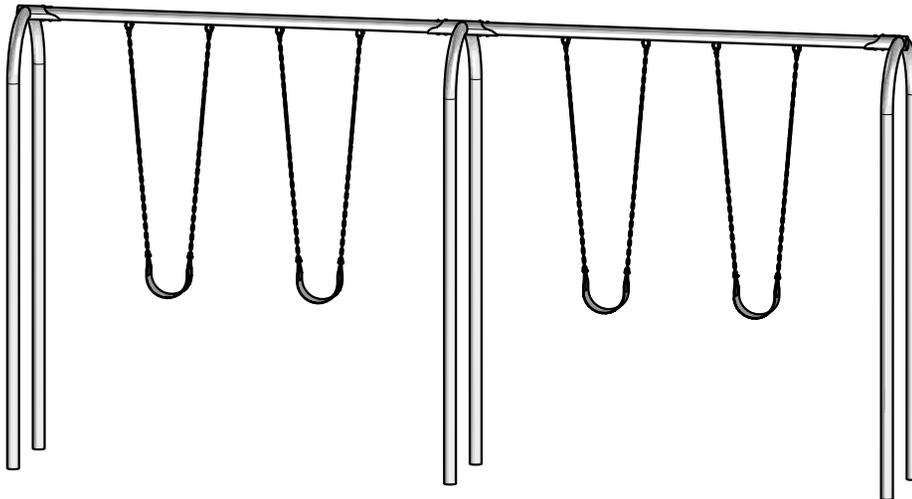
Footing Detail Support Post (EN)

FOOTING NOTES

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

Installation Instructions

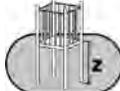
Playworld Systems® Model ZZXX0816
3-1/2 in. Outside Diameter
Steel Arch Swing
2-Unit Bay Addition



Assembly View

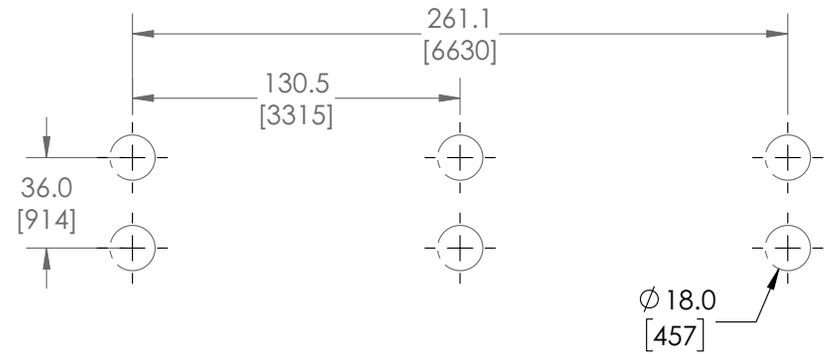
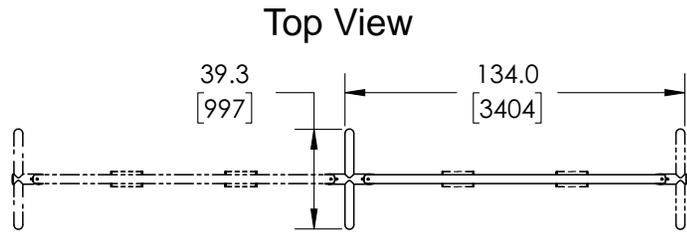
Installation Preparation

Recommended Crew: Three (3) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.26 cubic yard (0,20 cubic meters)
 Use Zone:..... Refer to the information on pages 1 & 2
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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

Installation Instructions

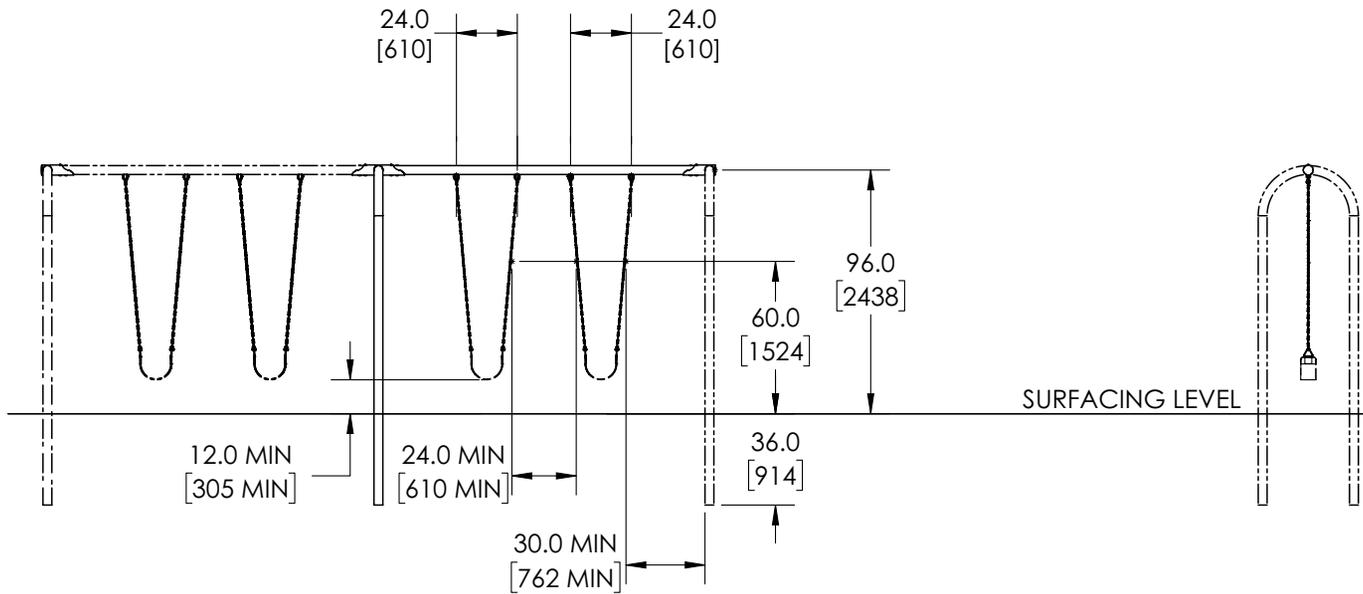
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

Notes:

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

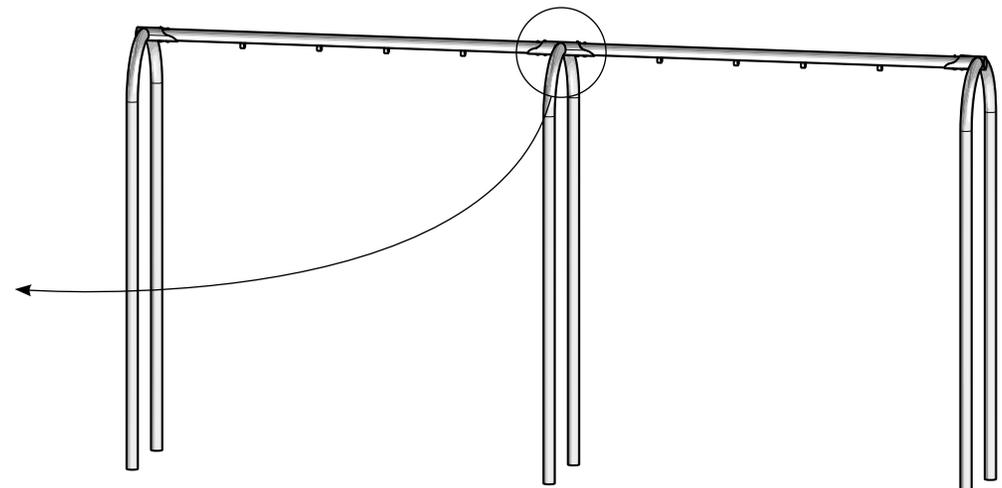
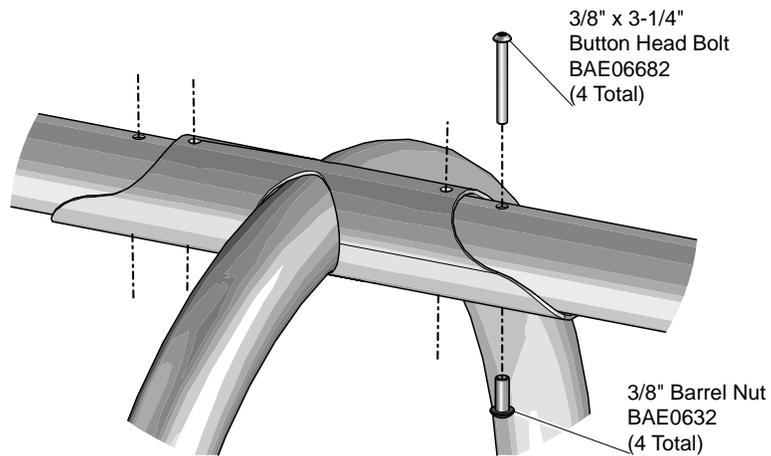
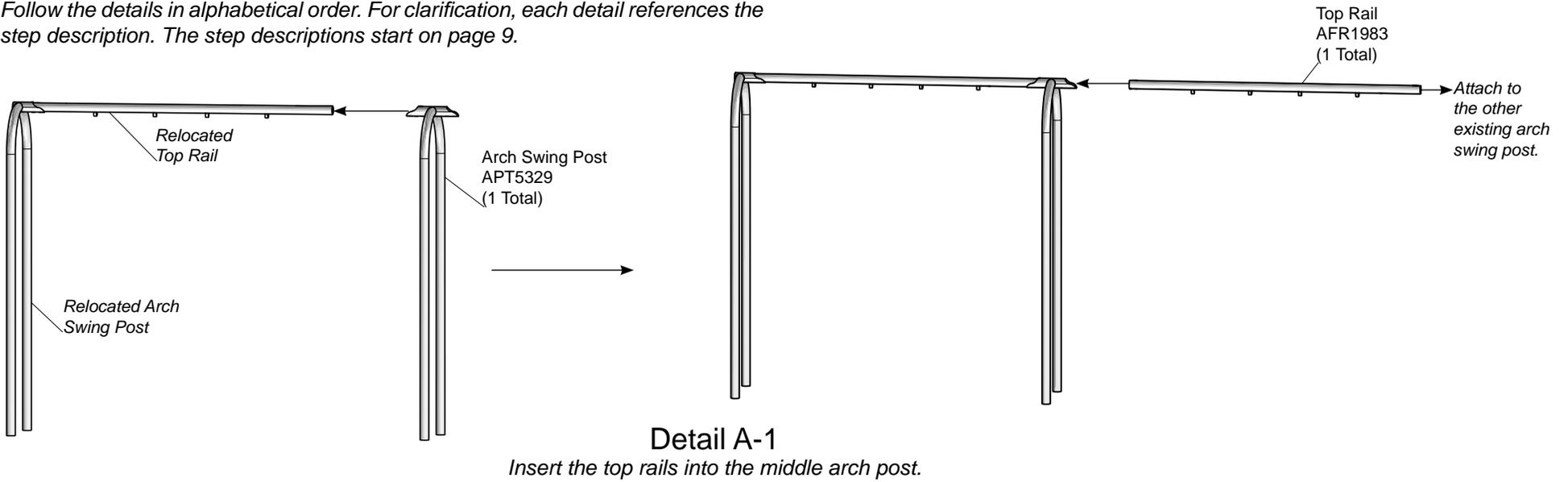


Elevation Views



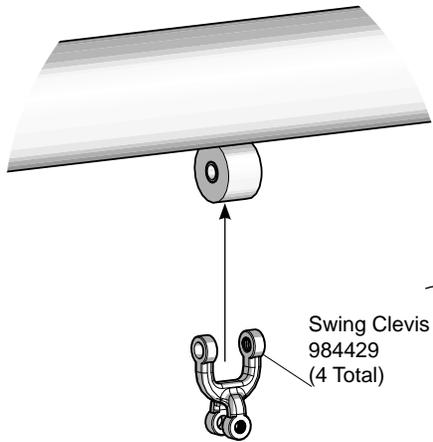
Installation Instructions

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

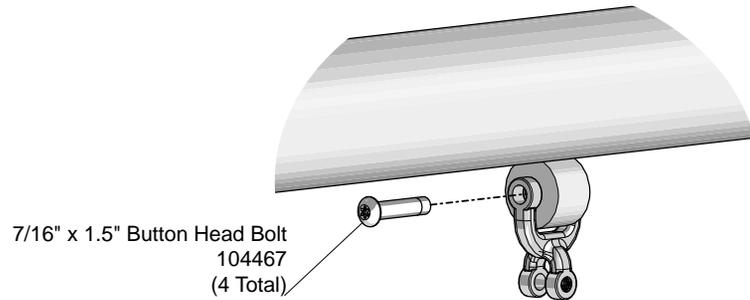


 **Details A-1 and A-2**
Step 5
Attach the top rail to the arch support posts.

Installation Instructions



Swing Clevis
984429
(4 Total)



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

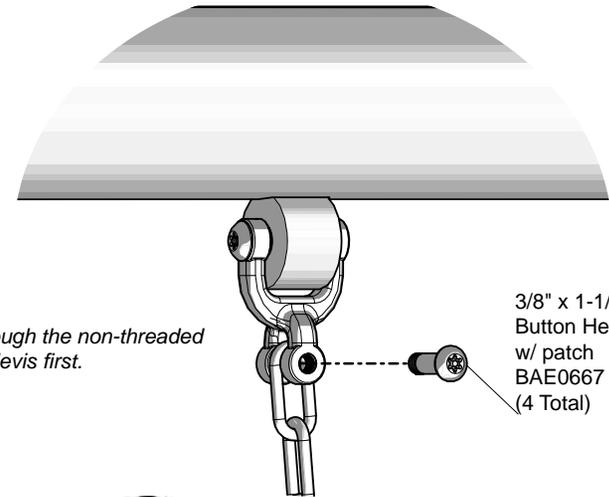
***Insert through the non-threaded
side of the clevis first.



Detail B
Step 8

Attach the swing clevises to the top rail.

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

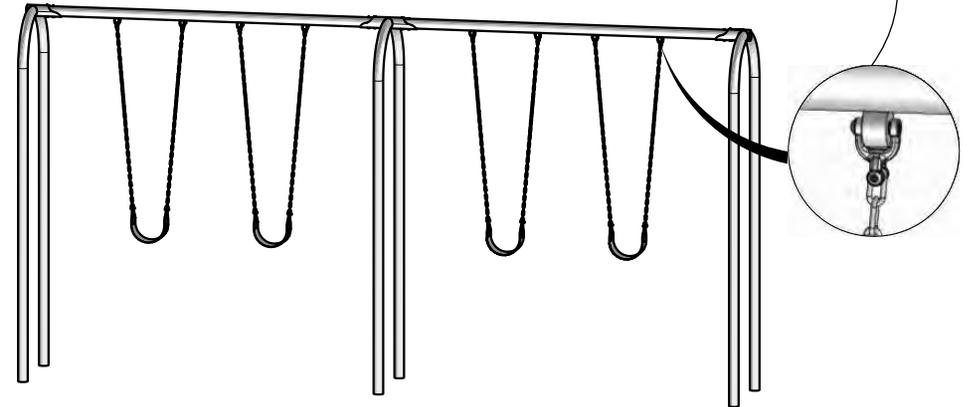


3/8" x 1-1/4"
Button Head Bolt
w/ patch
BAE0667
(4 Total)



Detail C
Step 9

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



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Unbolt the support post from the existing footing and transplant it to the opposite end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to *Step 5*.

New Installation

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

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

Step 7: Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts. Block and brace for concrete. Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the Footing Detail. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

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

Step 9: Thread bolt into the swing clevis. See **Detail C**. The clevis has a threaded and non-threaded side. Insert the bolt through the non-threaded side and thread into the other side of the clevis.

Note: The bolt will need to be removed to insert the chain for the swing seat.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Apply the Surfacing Warning labels to upper side corners. Labels are to be plainly visible according to current playground equipment guidelines.

XX0816 - 3-1/2 in. O.D. STEEL ARCH SWING 2-UNIT BAY ADDITION

PART NO.	DESCRIPTION	QTY.
104467	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	4
984429	CLEVIS - SWING HANGER	4
AFR1983	TOP RAIL - 3.50" O.D. x 5.20" x 122.10"	1
APT5329	POST - 3.50" O.D. DUAL STEEL ARCH	1
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	5
BAE0667	BOLT - 3/8" x 1-1/4" BUTTON HEAD w/ NYLON PATCH	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06682	BOLT - 3/8"-16 x 3.25" BUTTON HEAD - SS	5
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	1

 **PLAYWORLD**
The world needs play.[®]

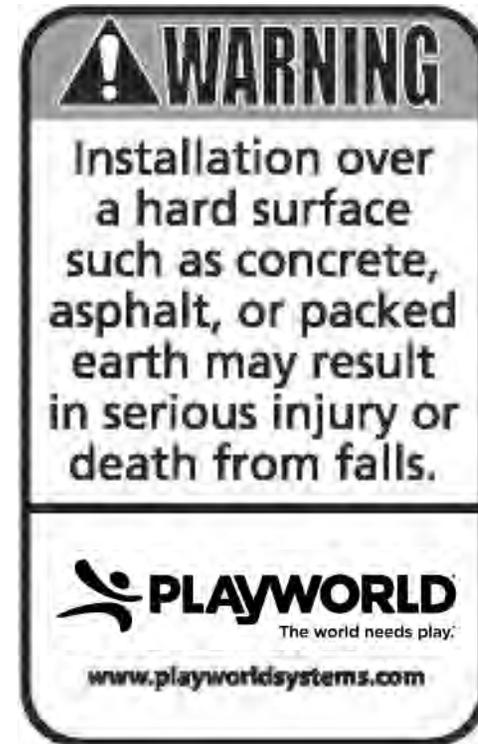
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworld.com



FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
- Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
- Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
- Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
- Clean dried concrete off of components and any other affected surface.
- Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
- Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
- Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
- Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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Clamps

- Inspect clamps to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Visually inspect clamps for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

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

Finish

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

Footings

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance

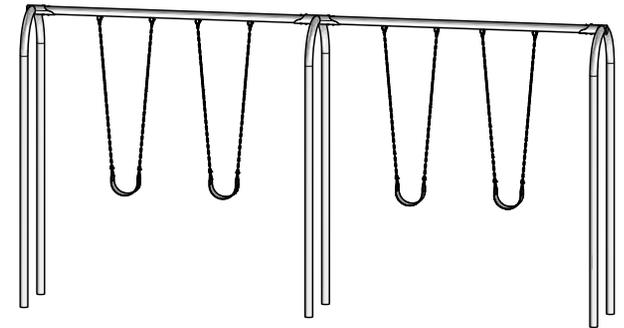
Playworld Systems®

Model XX0816

3-1/2 in. Outside Diameter

Steel Arch Swing

2-Unit Bay Addition



Inspection Form

Preventive Maintenance

... for Safety's Sake!

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

INSPECTION CHECKLIST

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

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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



WHITETAIL RIDGE PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS



Project Number: R0324200243

PlayArea: Additional Items |

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 3/23/2020 12:00:00 AM



commercial play systems

PRODUCT IDENTIFICATION LABEL

200111440
10000012C
SHEET 1 OF 1

LABEL, IDENTIFICATION STAMPED W/RIVETS 200111492

AUTHORIZED BY: 04MAR13
Asph...

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

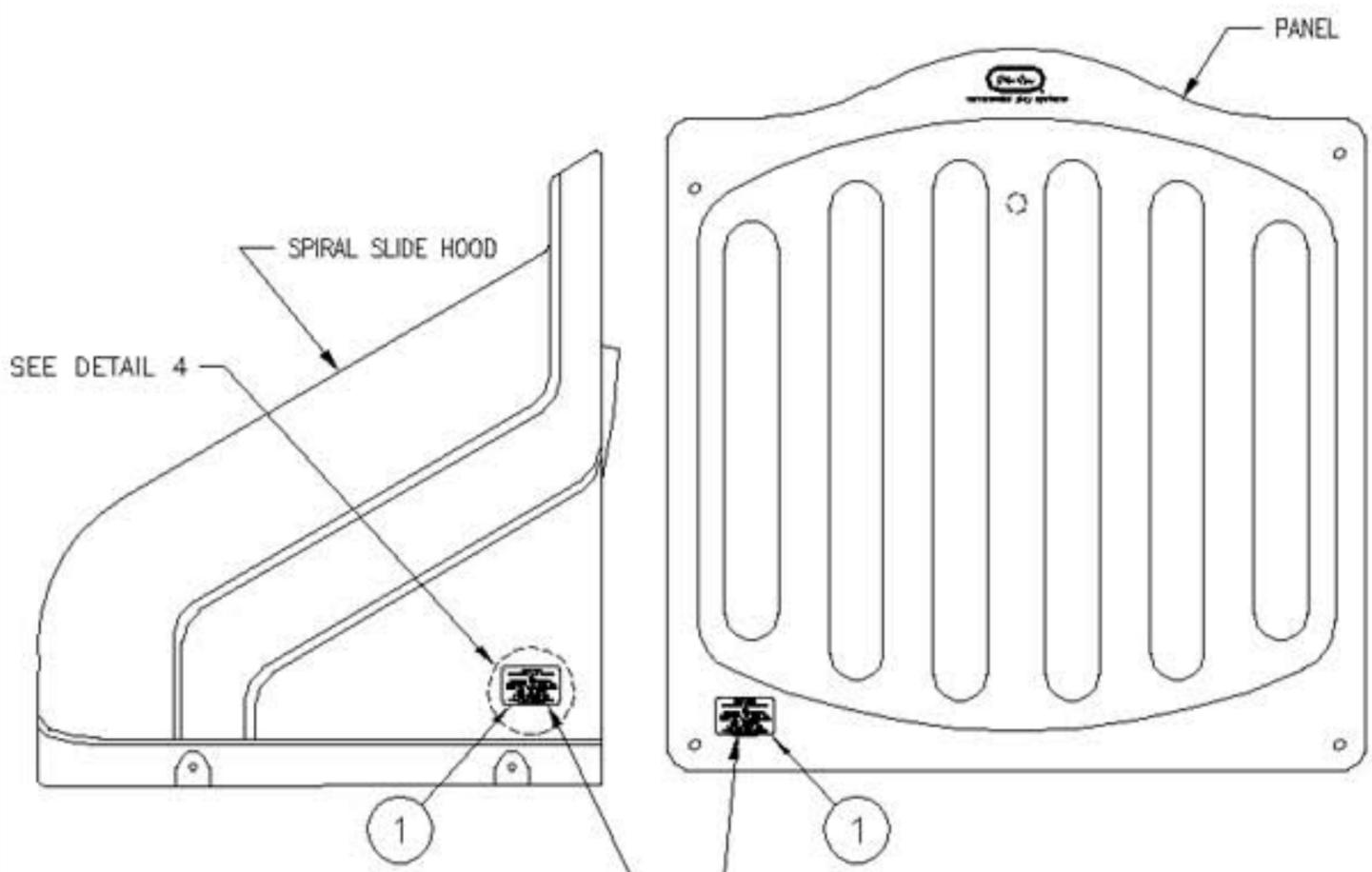
Application
This product identification label is an important part of your structure. It will provide key information for replacement parts and any warranty issues.

Installation Instructions

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

- Using the label as a template, mark and drill 4 $\phi 4\text{mm}$ [$5/32"$] holes.
- Attach the label using 4 pop rivets (item 2) as shown in Detail 4. Note: Insure label is flush with the surface and no gaps exist.

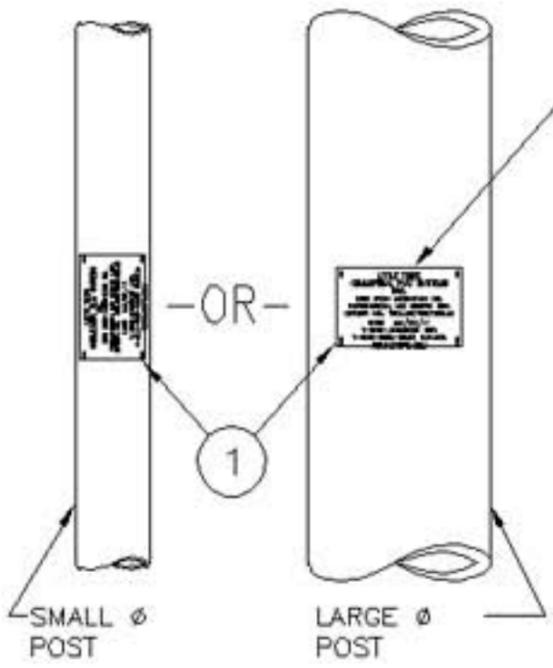
LITTLE TIKES
COMMERCIAL PLAY SYSTEMS
INC.
ONE IRON MOUNTAIN DR.
FARMINGTON, MO 63640 USA
ORDER NO. 123456789012345
DATE MM/DD/YY
1-800-325-8828 USA
1-800-265-9953 CANADA
WWW.LTTCPSS.COM



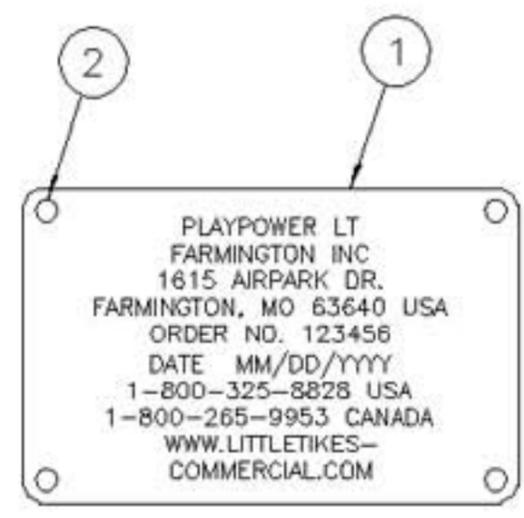
DETAIL
1

DETAIL
2

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



DETAIL
3



DETAIL
4

1

2





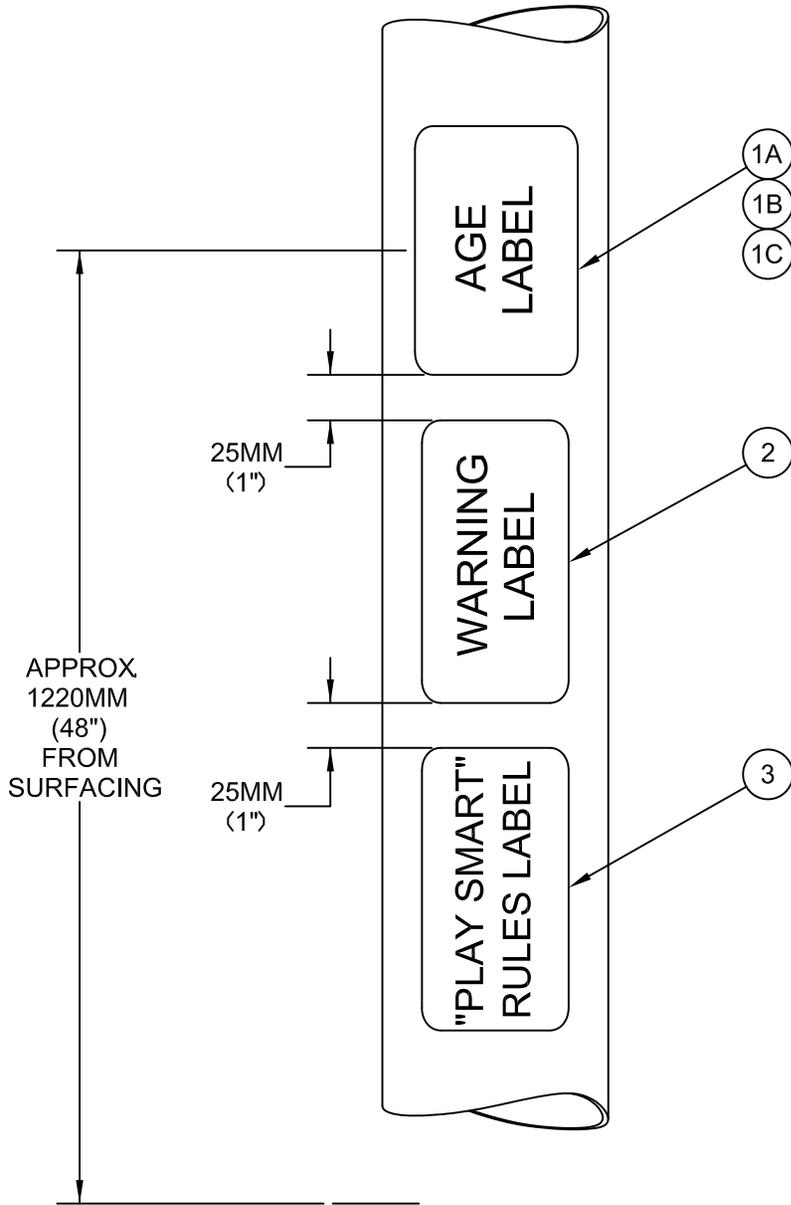
commercial play systems

AGE APPROPRIATE LABELS

1000005B

Sheet 1 of 1

AUTHORIZED BY: 03JUL18
TRACY ARCHER



AGE APPROPRIATE LABEL (2 TO 5 YRS) 200104304

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

AGE APPROPRIATE LABEL (2 TO 12 YRS) 200104305

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

AGE APPROPRIATE LABEL (5 TO 12 YRS) 200104307

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

Installation Instructions

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

1A



1B



1C





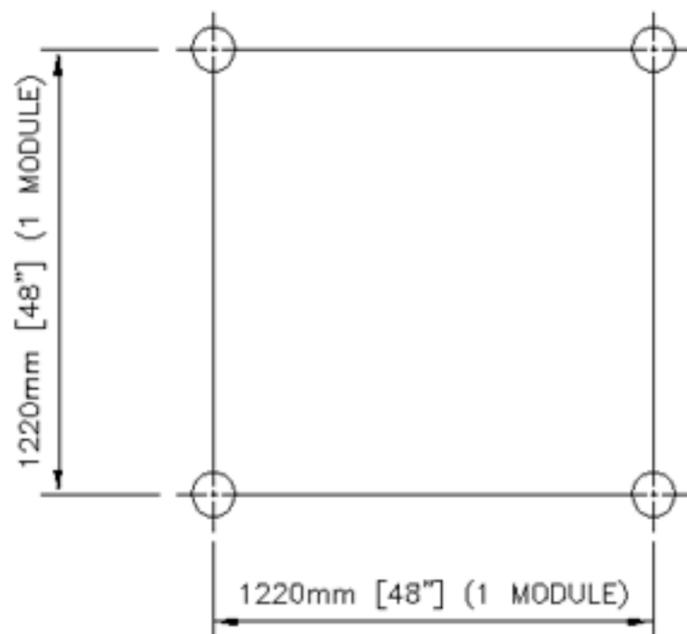
Project Number: R0324200243
PlayArea: PlayArea_1 | KidBuilders
Project Name:
Project Location:
Sales Representative:
Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

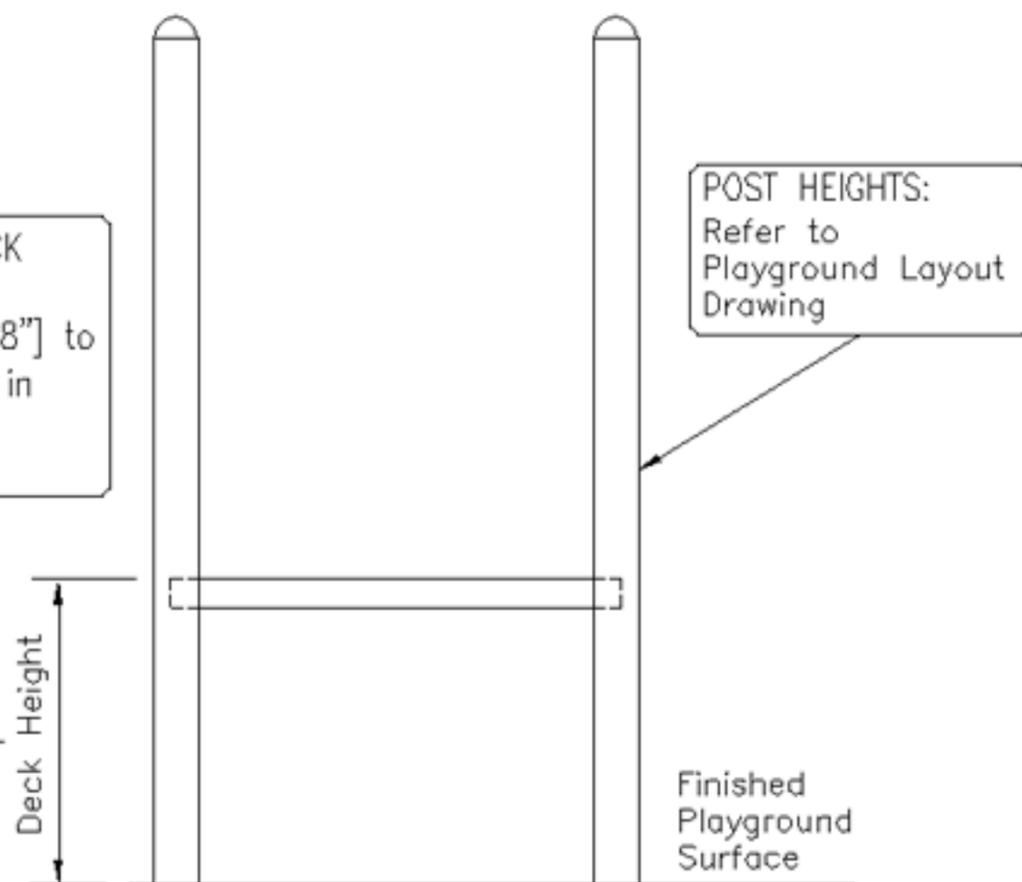
Please, read all information in this manual before starting to install your equipment.

Date: 3/23/2020 12:00:00 AM

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



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



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

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

AUTHORIZED BY:
Chris M. [Signature] 15MAR01

SITE REQUIREMENTS:

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

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

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

MAINTENANCE:

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

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

ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

SAFETY AREAS:

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

INSTALLATION MANUAL:

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

AUTHORIZED BY:
Chris M. [Signature] 15MAR01

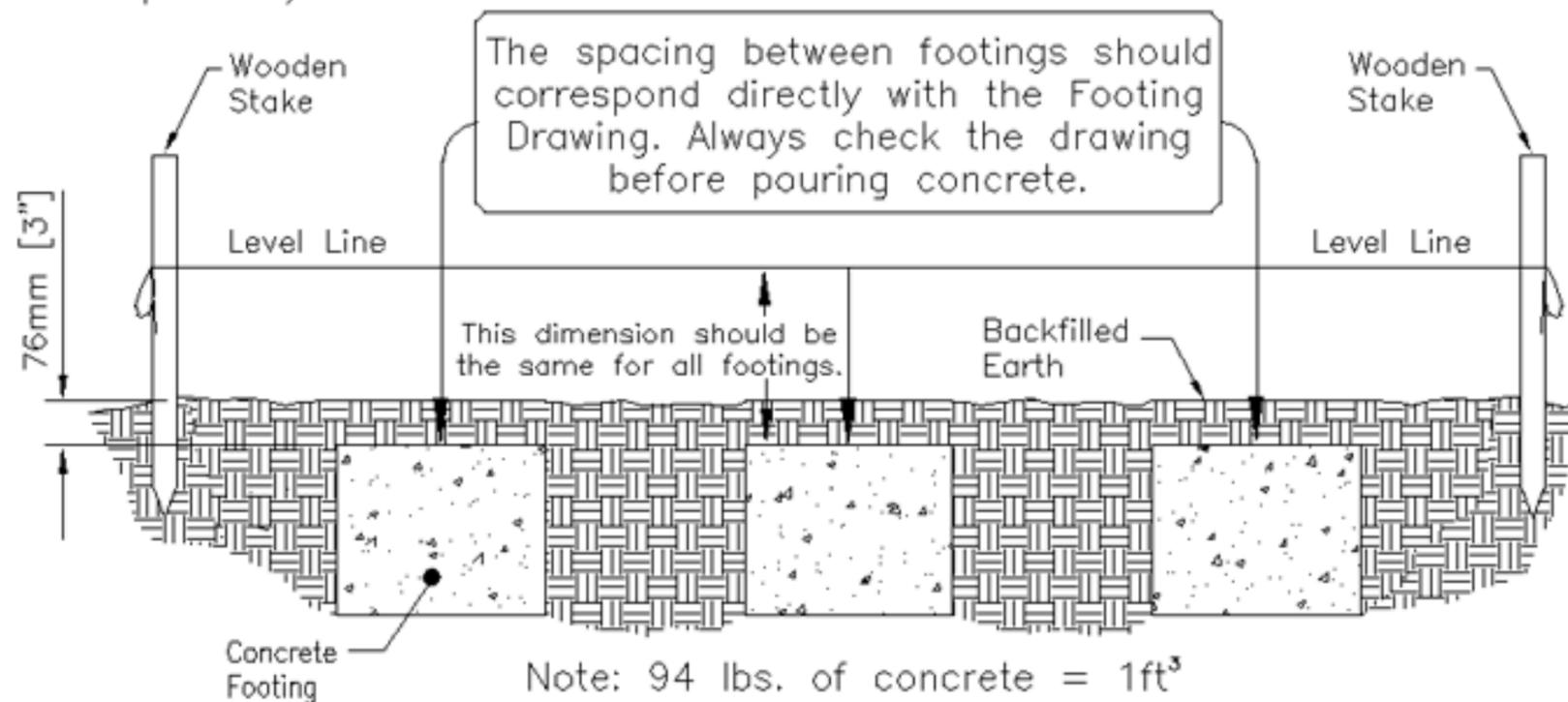
THE ORDER OF ASSEMBLY:

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

MAKING LEVEL FOOTINGS:

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

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



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

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

SUGGESTED TOOLS:

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

AUTHORIZED BY:
Chris M. [Signature] 15MAR01

WARNING

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

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

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

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

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

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

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

This label should be placed such that it will:

- (1) Be readily visible to the intended viewer and,
- (2) Alert the viewer to the potential hazard in time to take appropriate action.

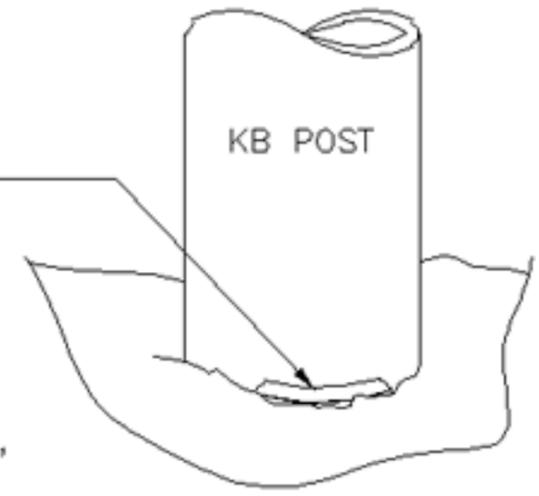
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

SLIDE INSTALLATION:

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

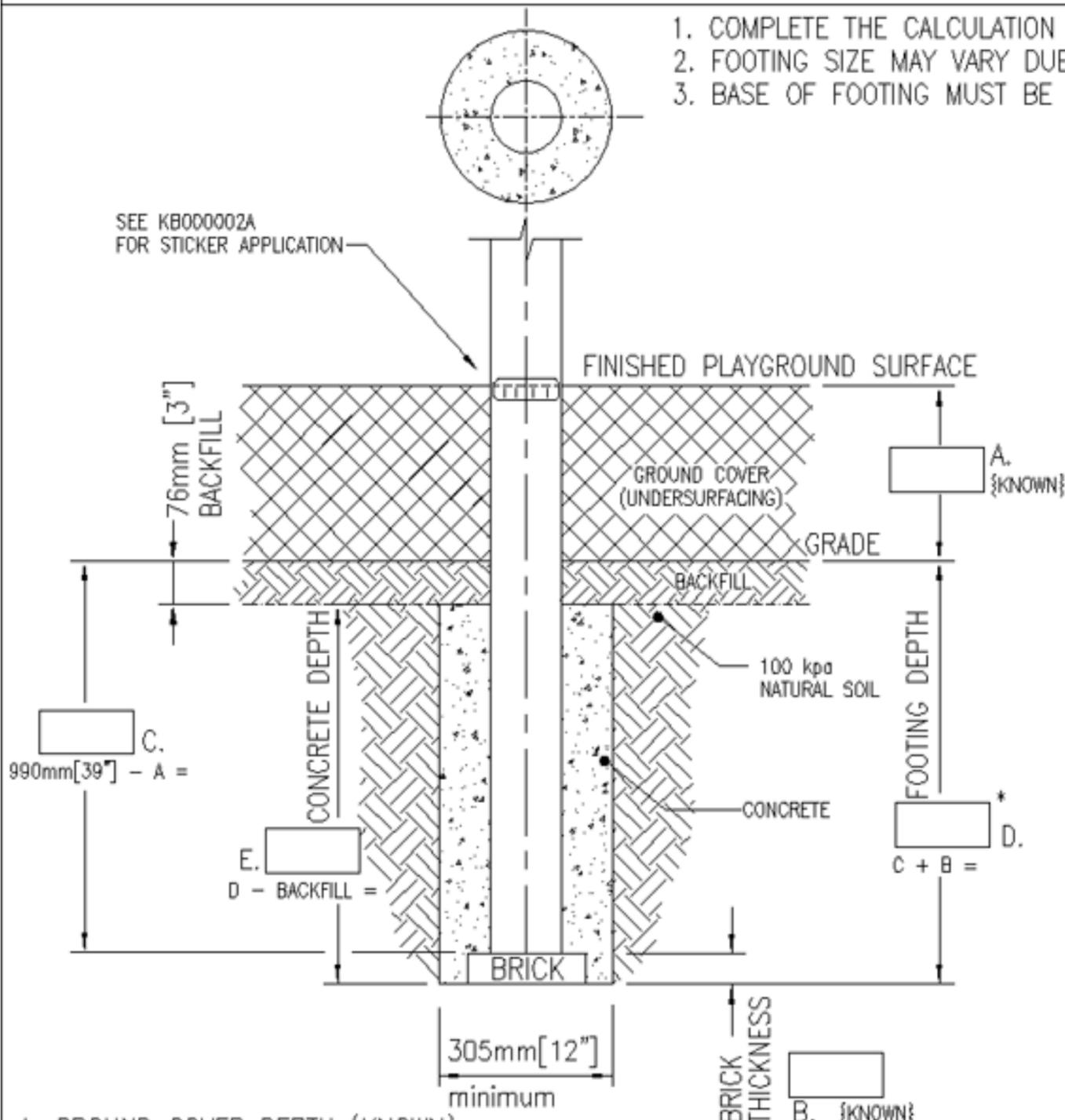
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will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

TOP OF SURFACE INSTALL AND MAINTAIN TOP OF RECOMMENDED SURFACING TO THIS MARK	HASTA A QUI COLOQUE Y MANTENGA HASTA LA MARCA LA SUPERFICIE RECOMENDADA	NIVEAU ZERO POUR L'INSTALLATION ET LA MAINTENANCE LA SURFACE AMORTISSANTE DOIT ATTEINDRE CE NIVEAU
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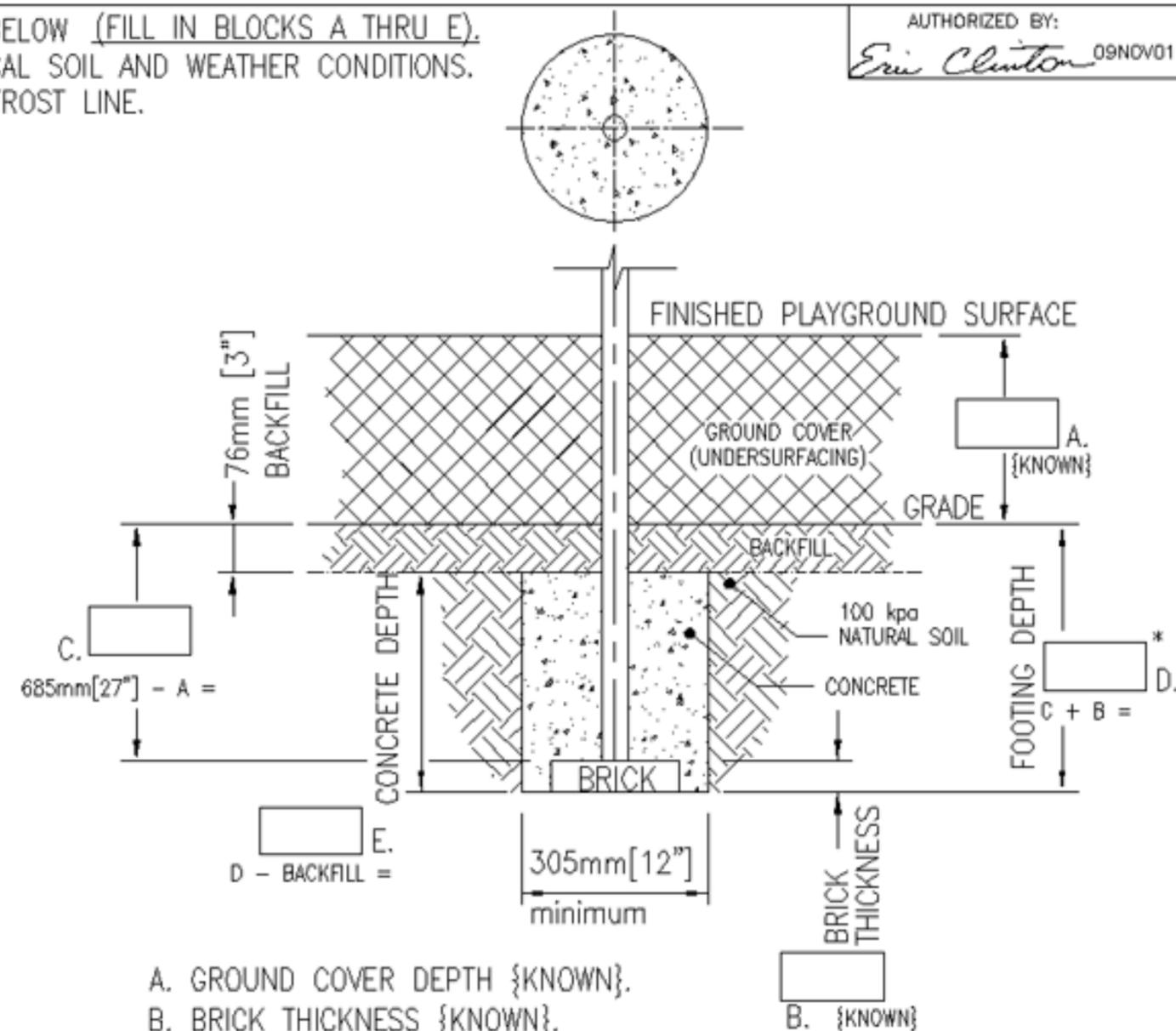
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the top of your ground cover. As erosion or compaction of surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing.

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



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

KB POST FOOTING - INGROUND



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

KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

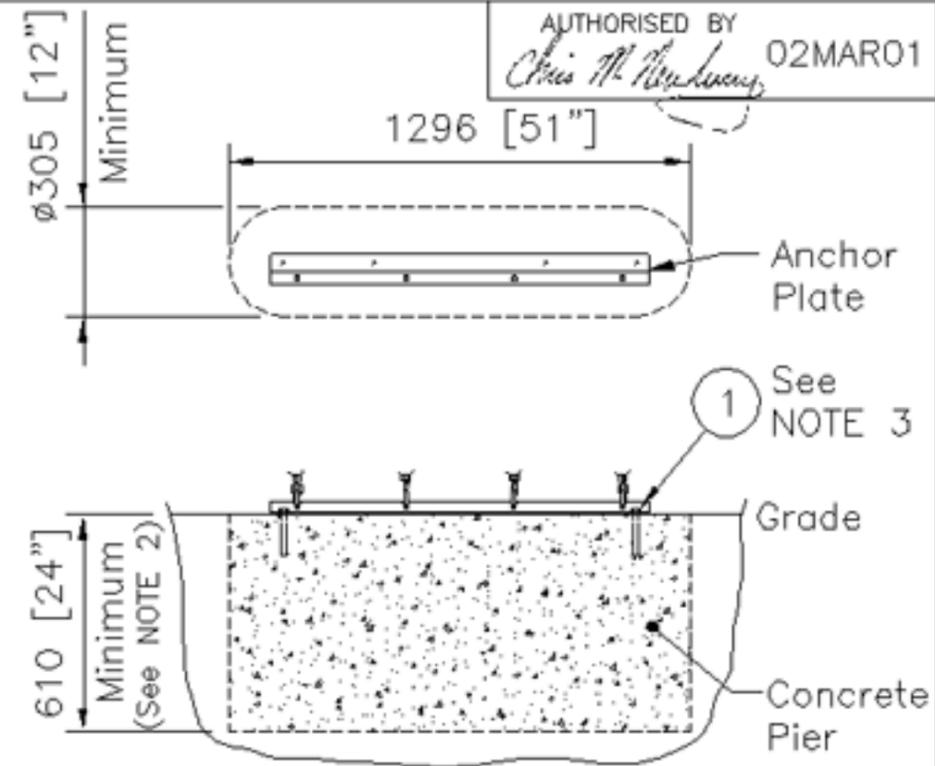
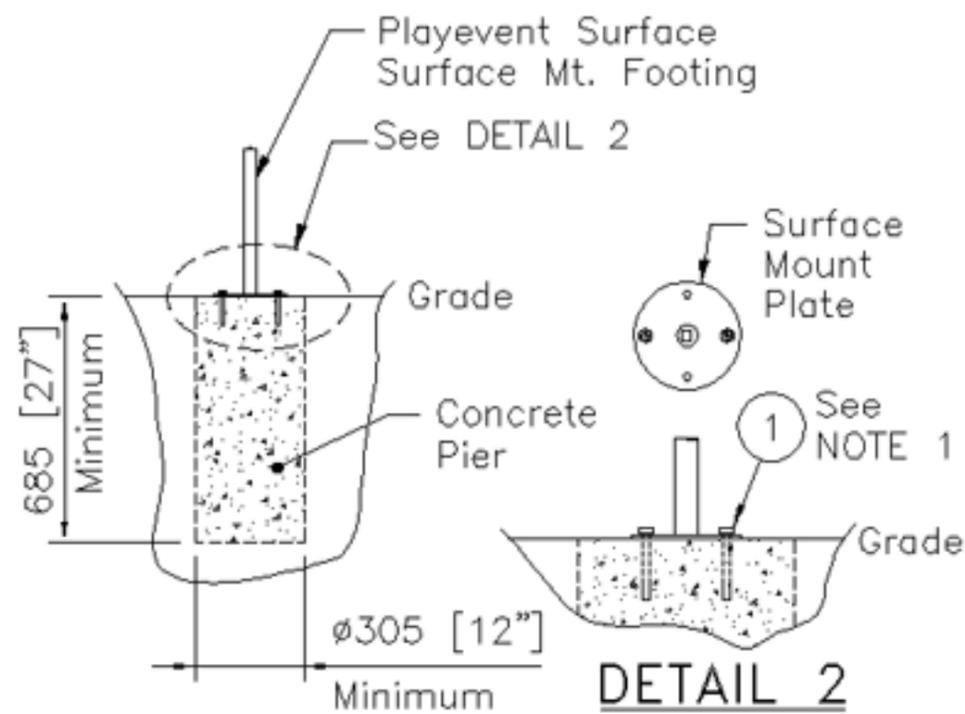
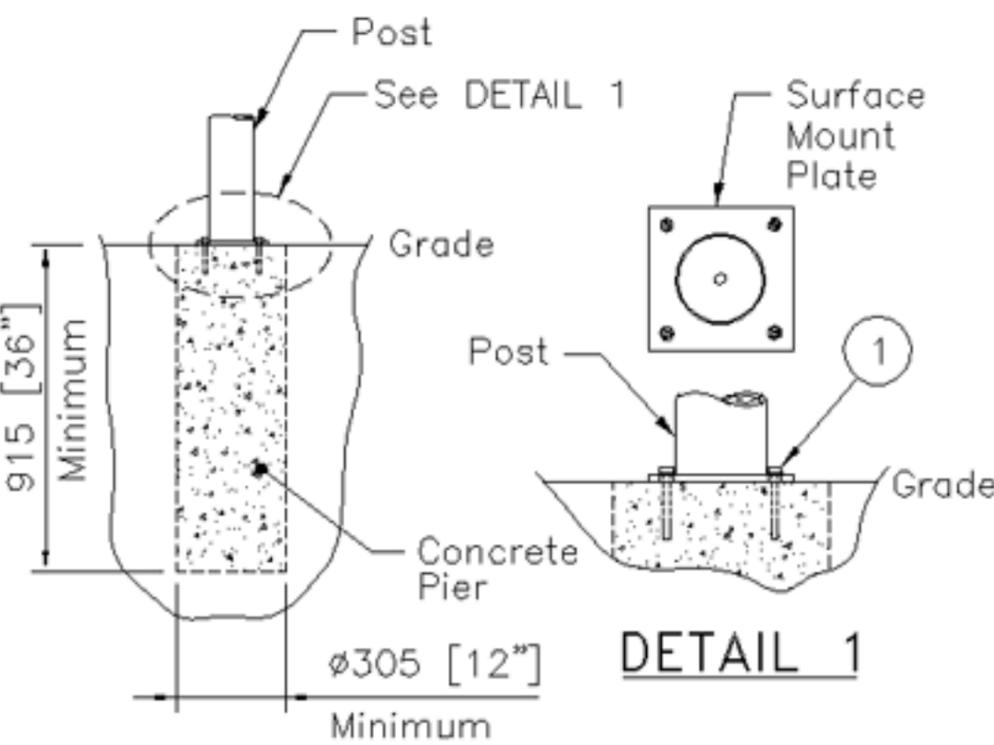
= $0.067 \text{ M}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{M}^3$

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

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

AUTHORISED BY
Chris M. [Signature] 02MAR01

OPTION 1: PIER



NOTE 1: Two per plate, diagonally located.

NOTE 2: Depth is less than round anchor because of extra volume of concrete.

NOTE 3: Anchor bolts shown on ends, but can be moved to other holes if necessary for accessibility.

Round Anchor

Anchor Plate

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

Post Footing

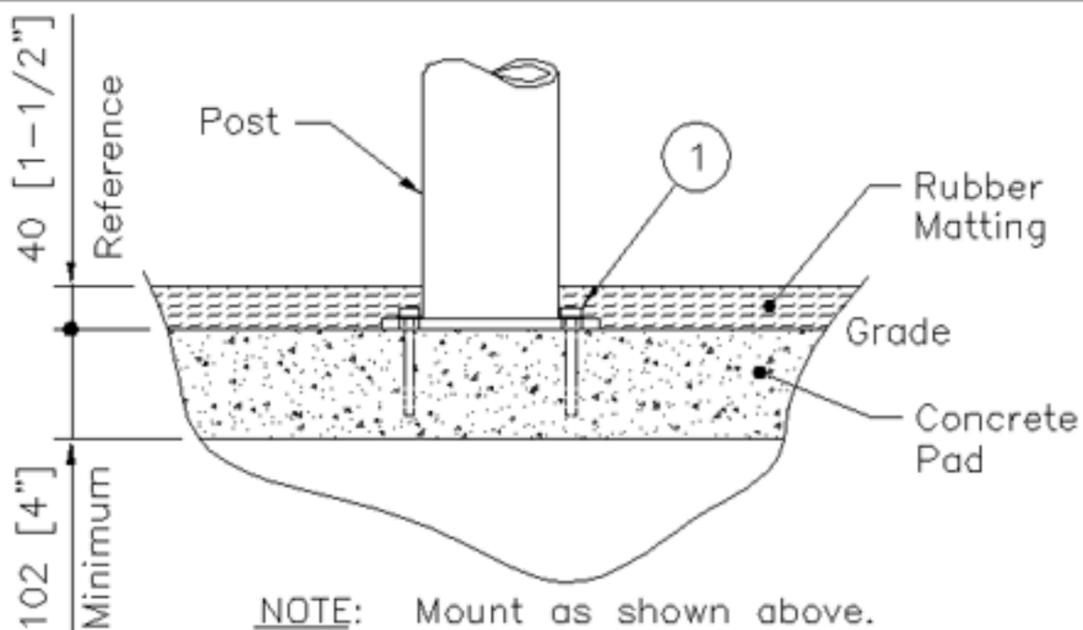
Playevent Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

Playevent Footing

OPTION 2: CONCRETE PAD

NOTE 4: Concrete may require up to 3 days to cure.

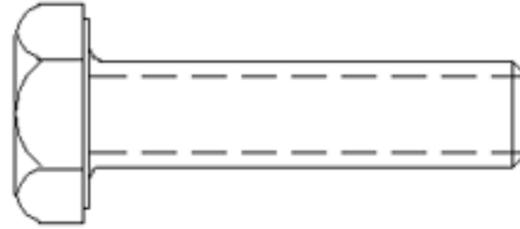
NOTE 5: A 3/8" Masonry bit is required to install anchor bolts.



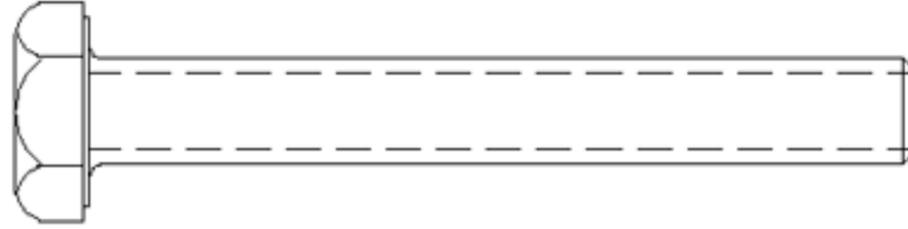
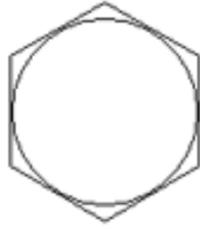
NOTE: Mount as shown above.

AUTHORIZED BY:
Chris M. Newberry 01MAR01

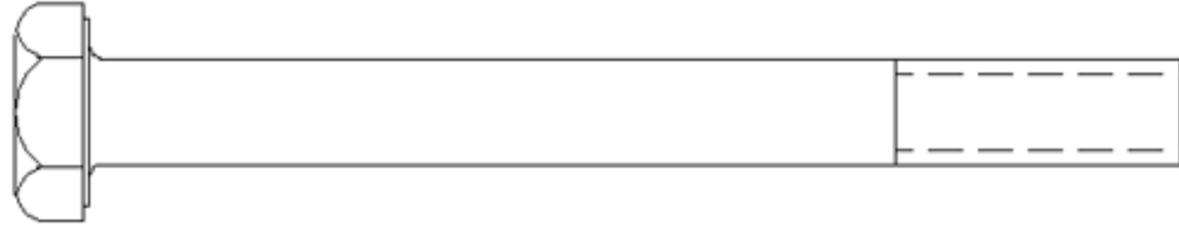
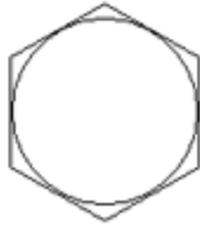
200001850
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



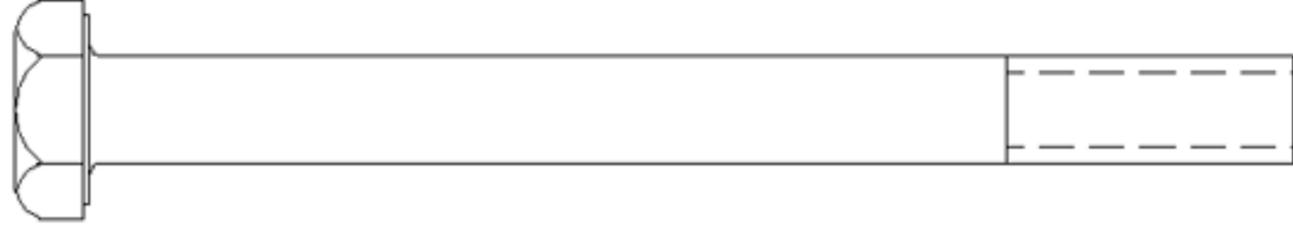
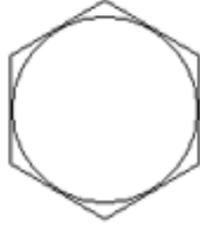
200001859
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



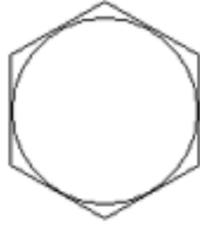
200001866
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



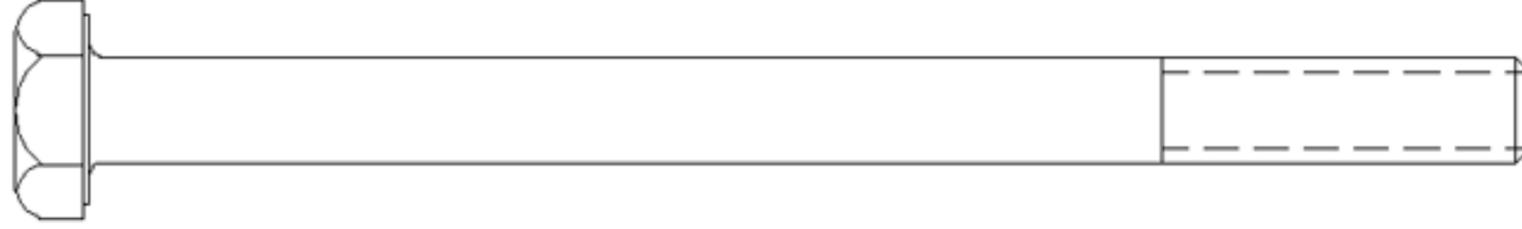
200001875
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



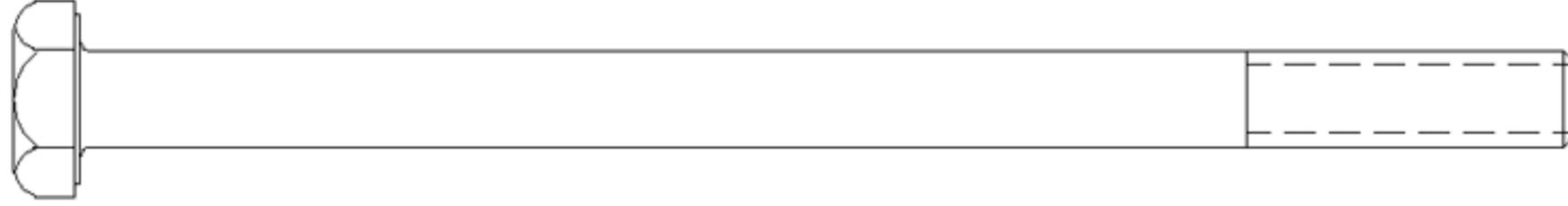
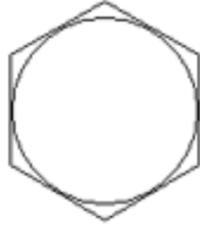
200001879
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

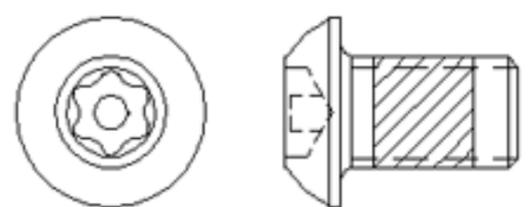


200001883
CAP SCREW HEX HEAD M10 x 1.50 x 130mm



200000792
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

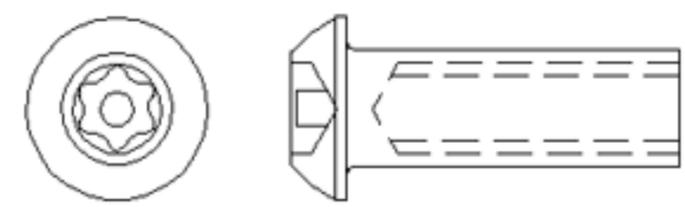




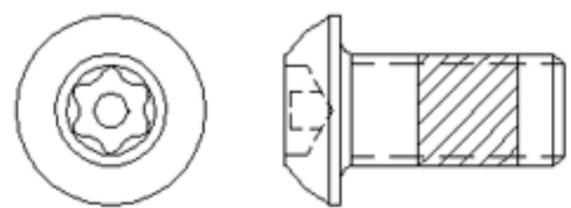
200002010
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



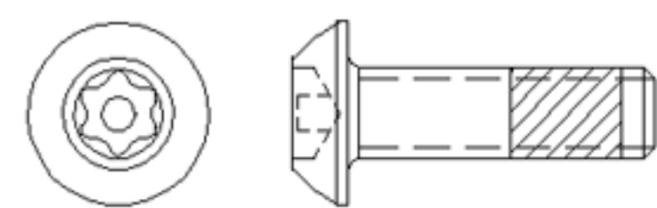
200002150
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



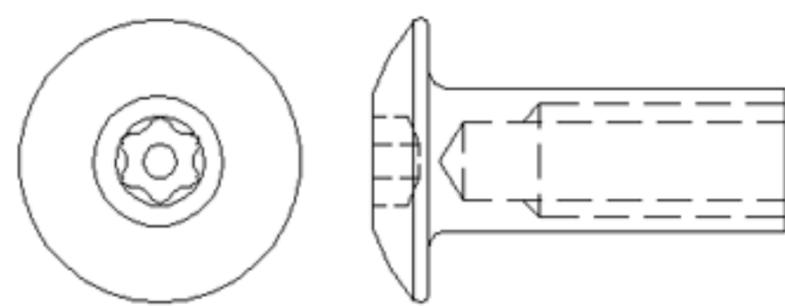
200002145
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



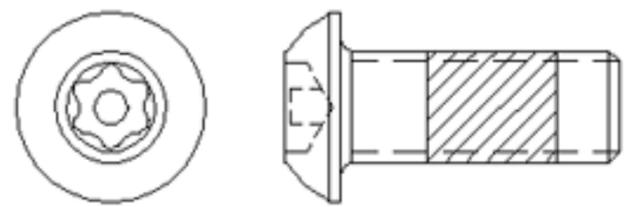
200002014
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



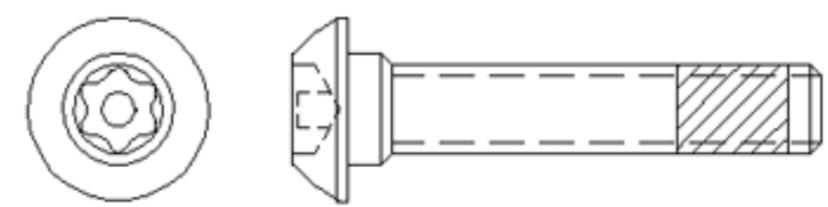
200002133
BOLT M8 x 1.25 MALE 27.5mm



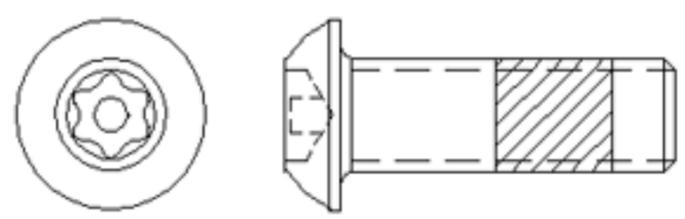
200001954
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



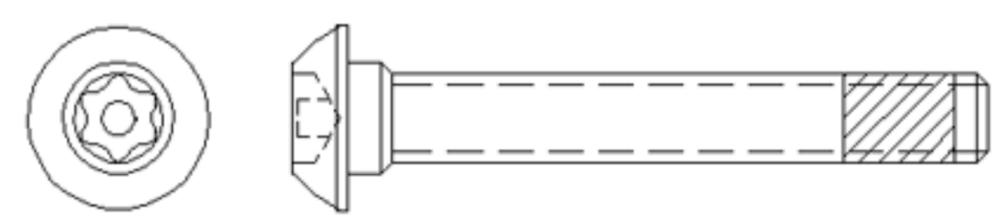
200002018
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



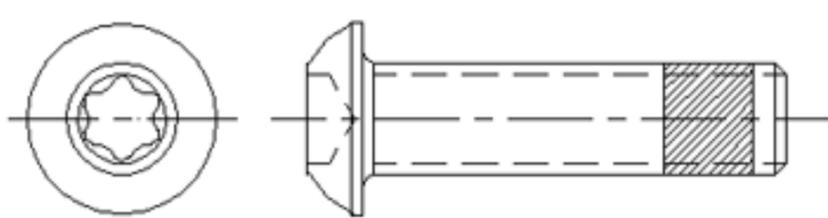
200002138
BOLT M8 x 1.25 MALE 42.5mm



200002030
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm

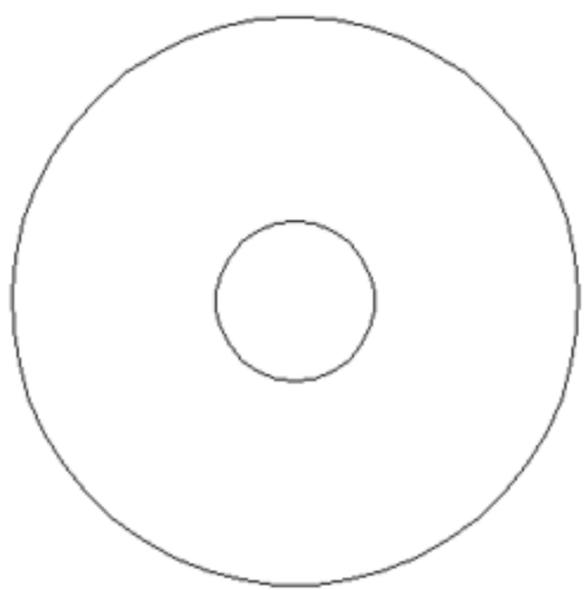


200002142
BOLT M8 x 1.25 MALE 57.5mm

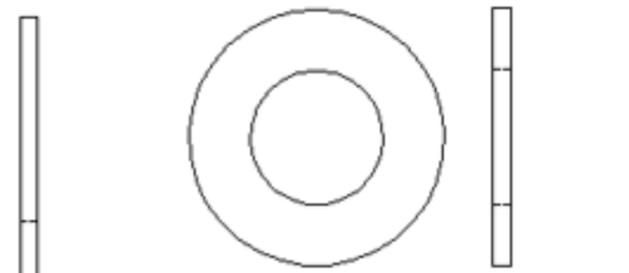


200097726
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm

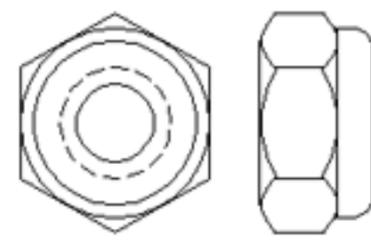
AUTHORIZED BY:
BARRY WILFONG 15FEB12



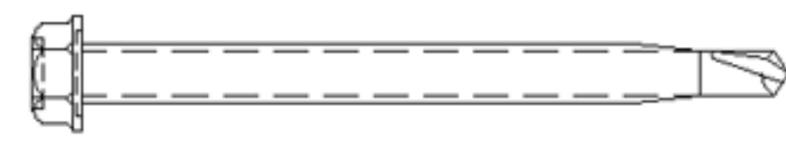
200002113
WASHER FLAT M12 (51 x 14.5 x 2mm)



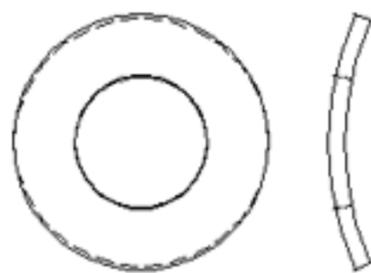
200002079
WASHER FLAT M11 23 x 12 X 1.6mm



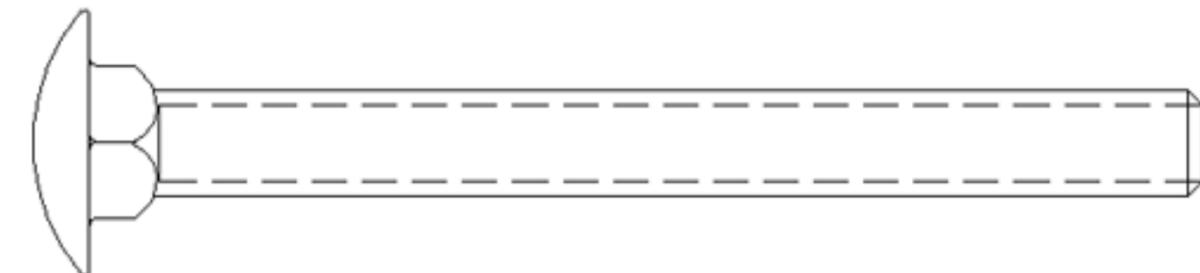
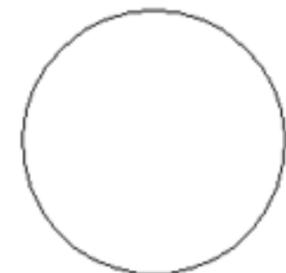
200001945
NUT LOCK HEX NYLON INSERTED M10 x 1.5



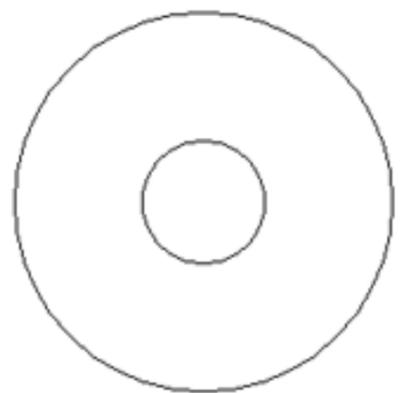
200002002
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



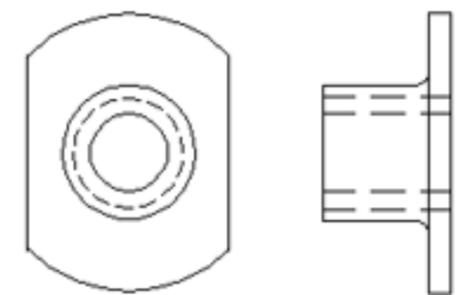
200008483
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



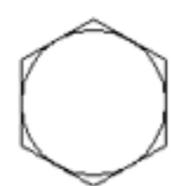
200001810
BOLT CARRIAGE M10 x 1.50 x 100mm



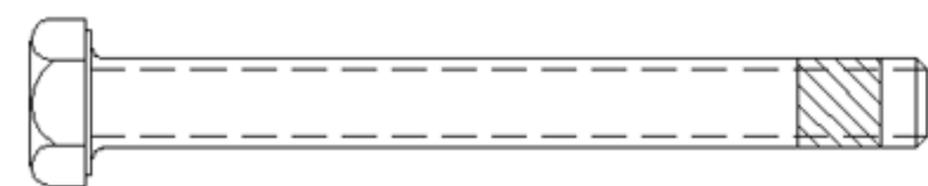
200002096
WASHER FLAT M10 34OD x 11ID x 3 mm THK



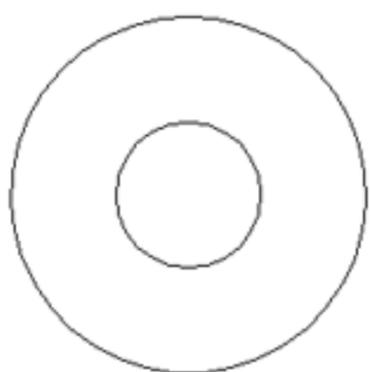
200001966
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



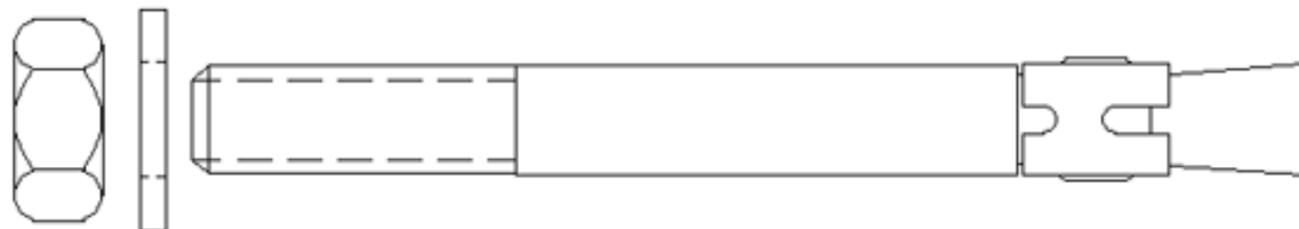
200001826
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



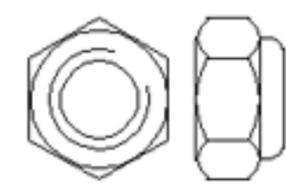
200001986
SCREW U-DRIVE ROUND HEAD M5 x 16mm



200002100
WASHER FLAT M11 32OD x 13ID x 2 mm THK



200001776
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



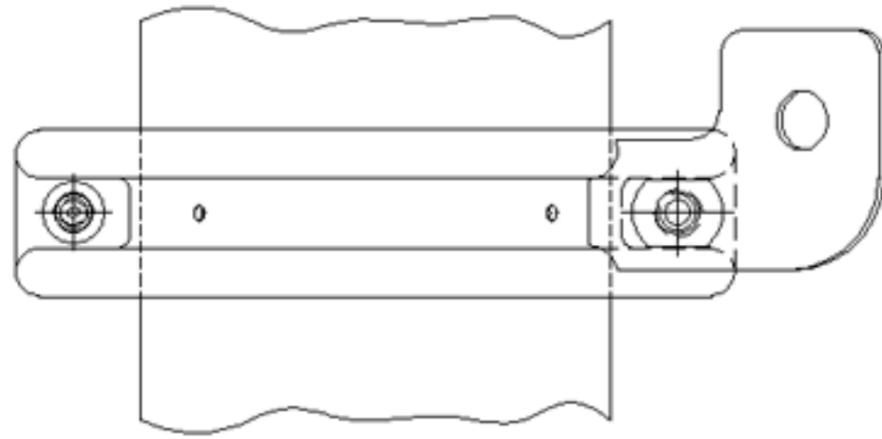
200001934
NUT LOCK HEX NYLON INSERTED M8 x 1.25



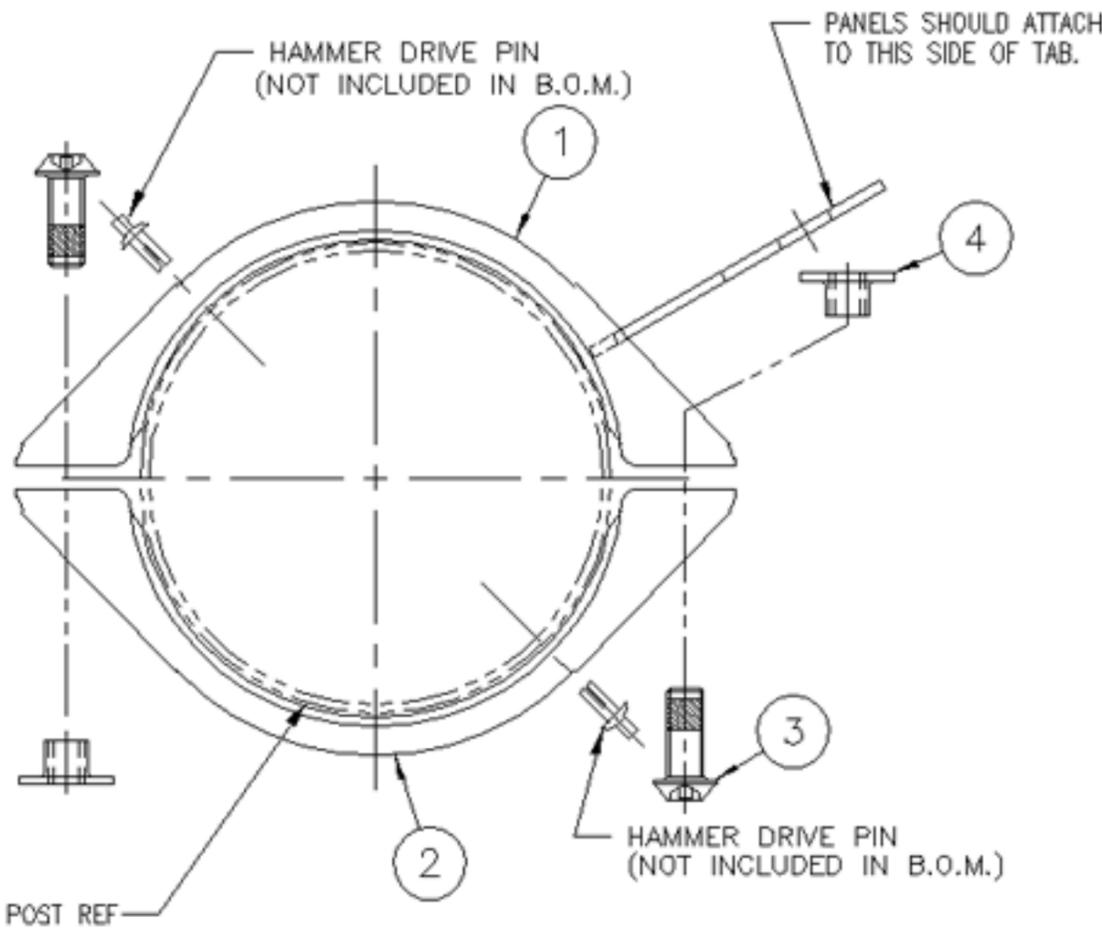
CLAMP HI-LO TAB F/KB

CLAMP HI-LO TAB F/KB

200079200



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



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

CLAMP HI-LO TAB F/KB

Specifications

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

CLAMP

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

FASTENERS

FINISH: STAINLESS STEEL.

Application

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

Maintenance

- CHECK ALL HARDWARE
- TOUCH UP ANY MARRED PAINT SURFACE

Installation Instructions

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

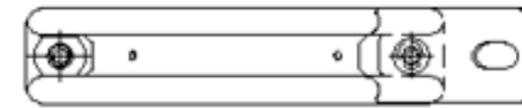
KB000009A

AUTHORIZED BY:

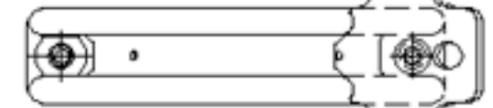
Raymond 03AUG99

PANEL OR WING CLAMP

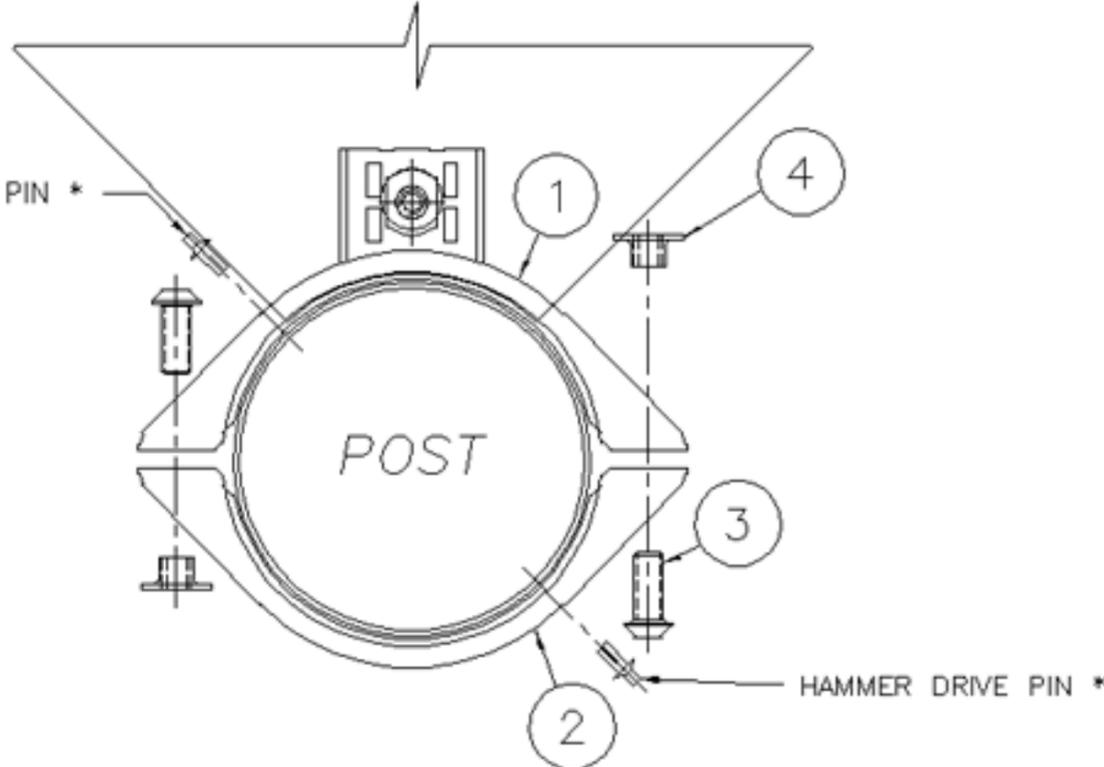
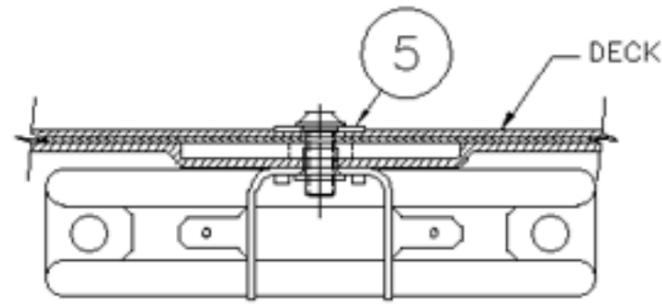
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP

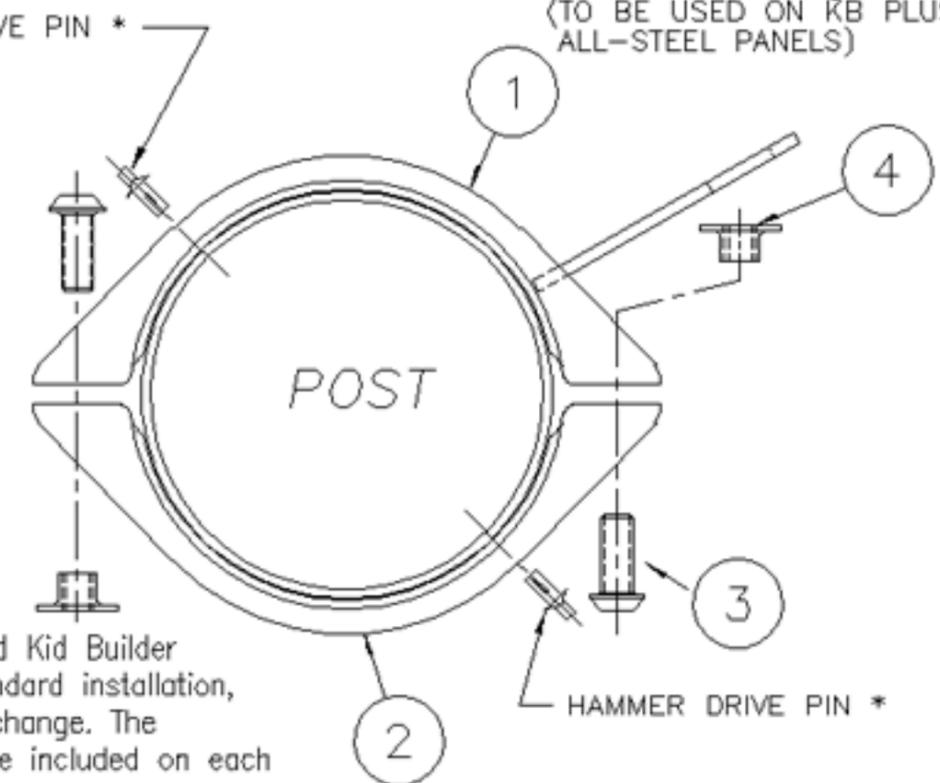


REF: WING CLAMP
(TO BE USED ON KB PLUS ALL-STEEL PANELS)



DECK CLAMP

ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/NEW DECK ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	3
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
5	200002100	WASHER FLAT M11 320D X 131D X 2 MM THK	1



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

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

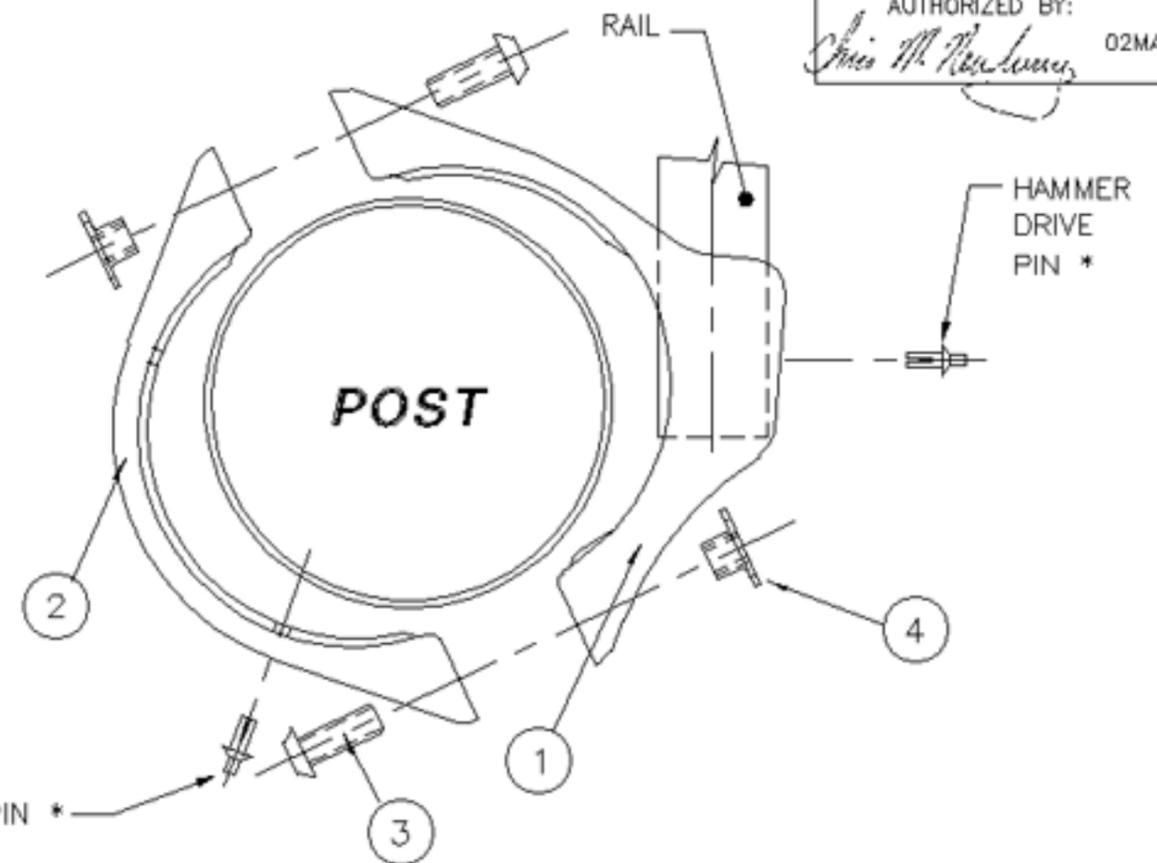
* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

AUTHORIZED BY:
Chris M. Newberry 02MAR01

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

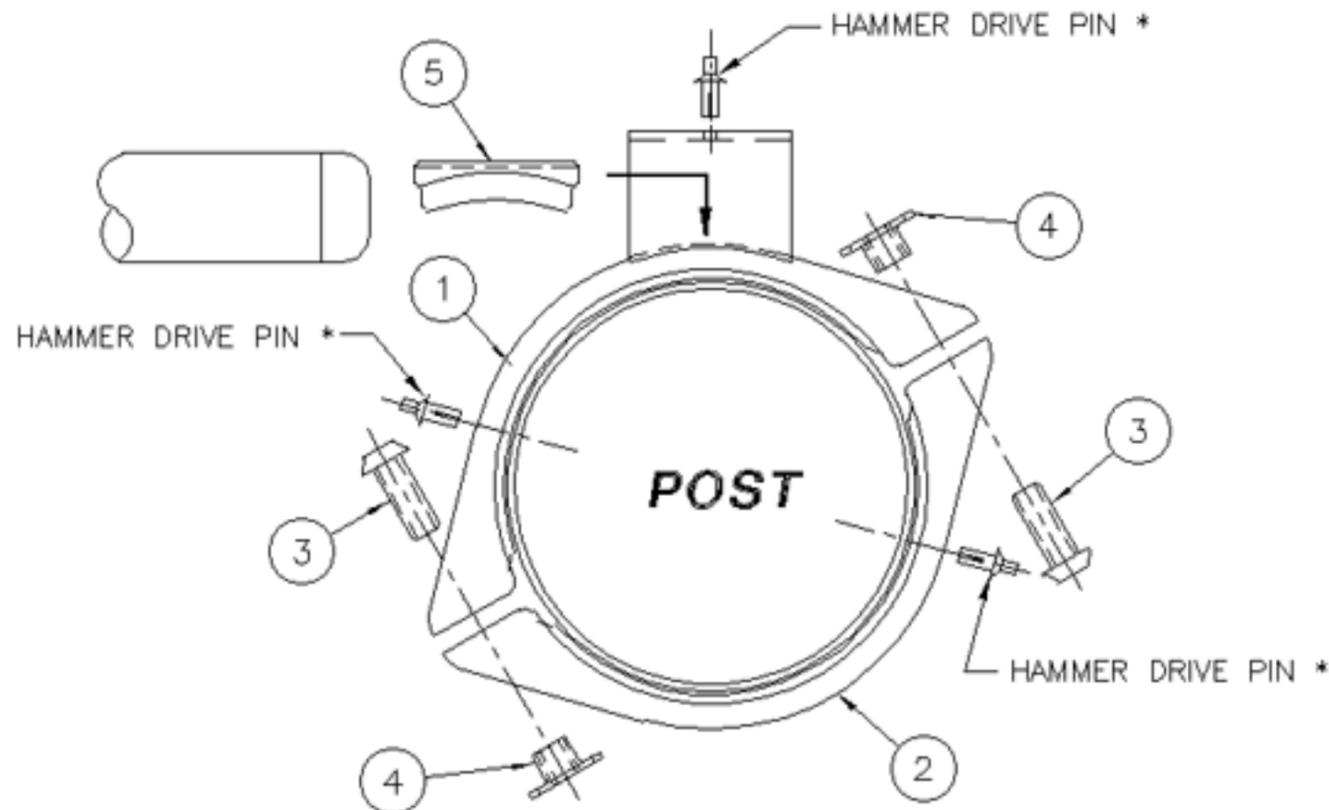
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half.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

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



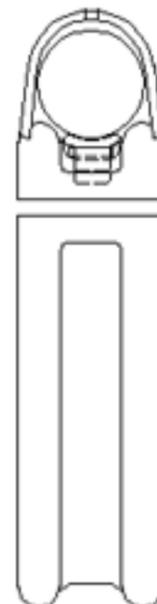
30 DEG. RAIL CLAMP W/ WEDGE

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



HOODED RAIL CLAMP

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





commercial play systems

TIRE SWING W/SS SWIVEL

1800019C

Sheet 1 of 5

AUTHORIZED BY: 10SEPT18
Tracy Archer

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

SITE REQUIREMENTS:

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

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

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

MAINTENANCE:

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

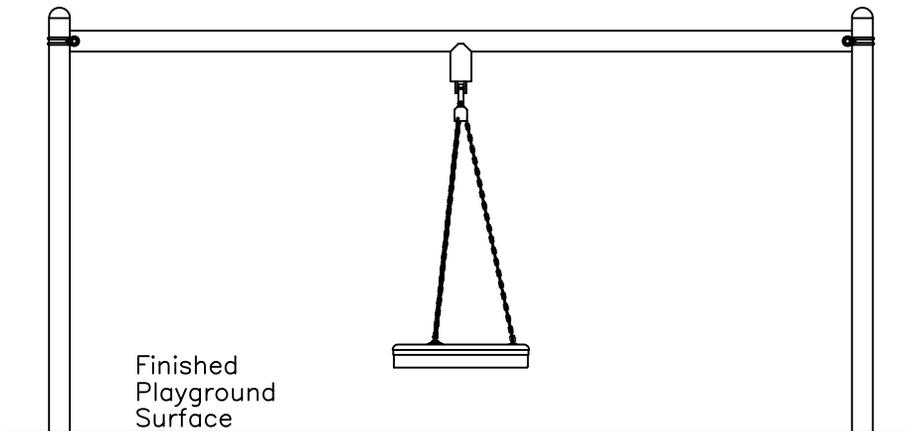
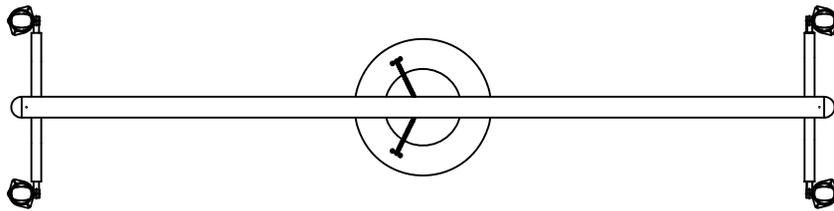
All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm [3.5"] to 229mm [9"], or string entanglements. Make certain the runout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

ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

SAFETY AREAS:

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

Refer to Sheet 5 for Footing Layout & Fall Zone



Finished
Playground
Surface



commercial play systems

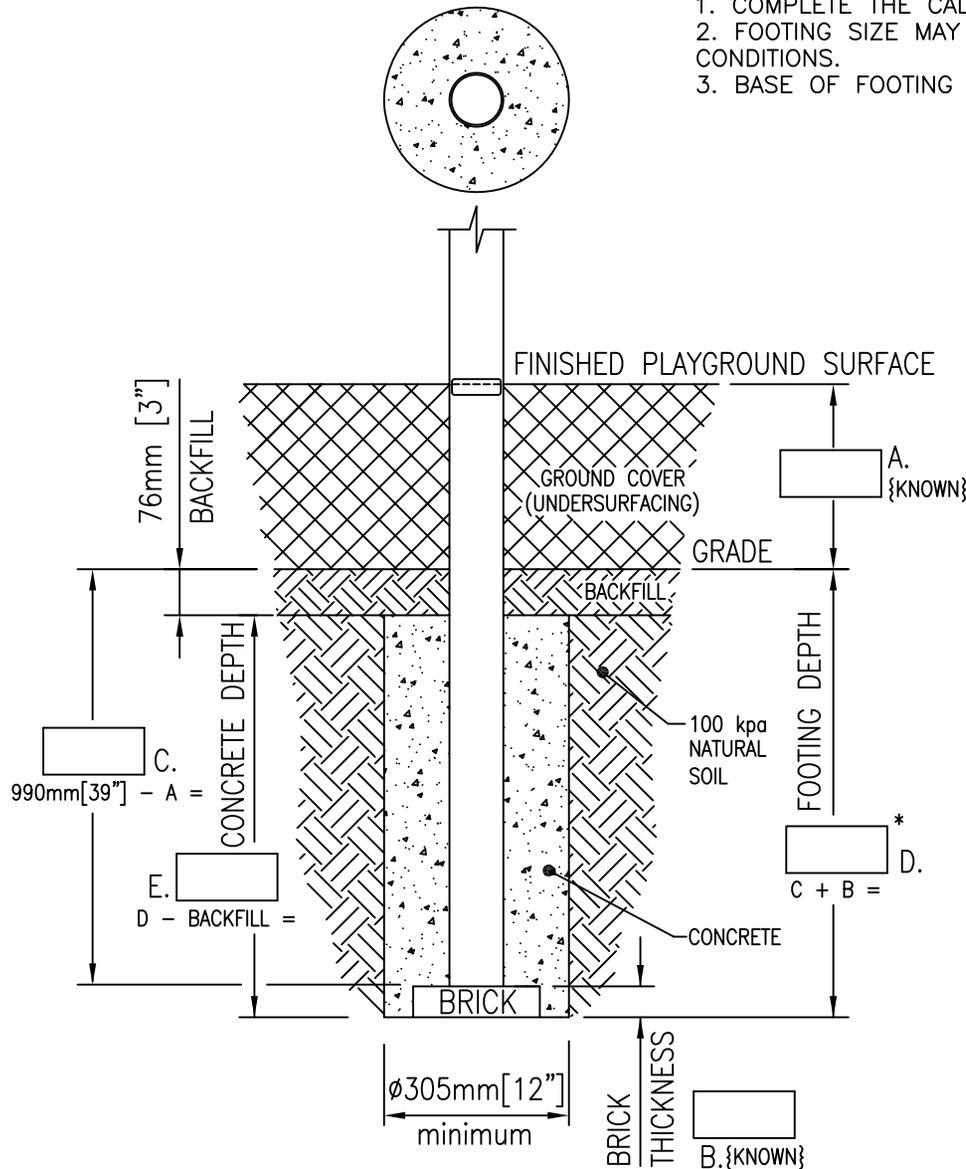
TIRE SWING W/SS SWIVEL

I800019C

Sheet 2 of 5

AUTHORIZED BY: 10SEPT18
Tracy Archer

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



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

POST FOOTING INGROUND/LOOSE FILL

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

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

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

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

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

TIRE SWING W/SS SWIVEL

1800019C

Sheet 3 of 5

SWING TIRE 4877MM/16'SS W/BURIED POSTS 200200786

AUTHORIZED BY: 10SEPT18
Tracy Archer

Item	Code	Description	Qty.
1	909261*	BEAM ASSY SS SWIVEL F/TIRE SWING	1
2	903226LGY	ROTO-MOLD TIRE W/CHAINS (2004)	1
3	-	KB RAIL CLAMP ASSEMBLY	4
4	909579*	POST GLV. 148"/3.0 W/CAP ING	4
5	910342*	RAIL CLAMP - W/WEDGE/30 DEG. ATTACH.	4

Note: For replacement bolts to attach the chain, use M00104506-BOLT 3/8-16 X 1 1/4 BHD 6 LOBE 18-8SS; An (*) by part numbers (codes) indicate: Color Code Required.

Application

-FOR AGE GROUP 2 - 12.
-CLOSE ADULT SUPERVISION IS RECOMMENDED FOR ALL AGES.

Maintenance

All Fasteners should be inspected and re-tightened if necessary 1 week after installation.
On going maintenance intervals will vary according to the amount of use the equipment receives.
Recommended inspection interval every 3 months.

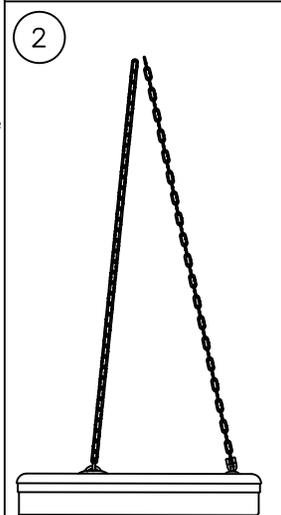
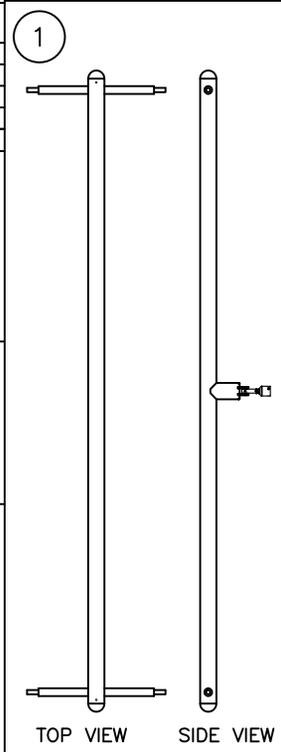
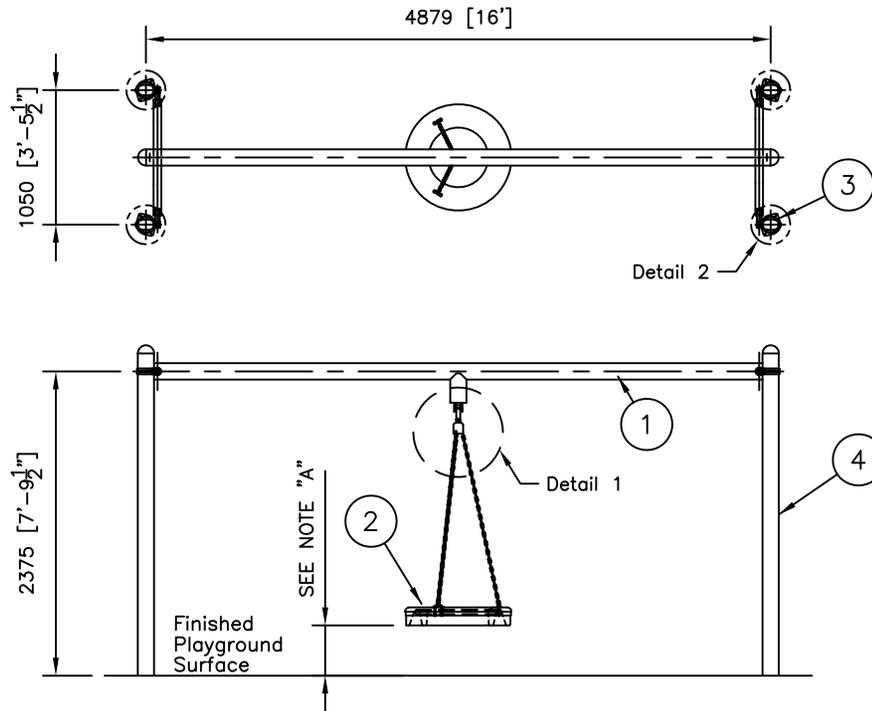
Installation Instructions

1. Find and mark the appropriate locations for the footings. make sure you have adequate fall area as specified.
2. Dig footings to appropriate depth and diameter.*
3. Place brick(s) in each footing hole and move post into footing holes.
4. Assemble beam to posts with KB clamps (ITEM 5) as shown (DETAIL 2) make sure beam is level, and posts are plumb. (DO NOT INSTALL TIRE SWING WITHOUT PROTECTIVE SURFACING)
5. Pour concrete, allow at least 48 hours for concrete to cure.
6. Backfill each footing with 76mm[3"] of earth.
7. Install resilient surfacing. (DO NOT INSTALL TIRE SWING WITHOUT PROTECTIVE SURFACING)
8. Assemble the tire swing assembly to the beam as shown (DETAIL 1).
9. Make sure the tire is at the recommended height shown (see NOTE A).
10. Tighten hardware and drive-pin clamps to posts.

IMPORTANT: DO NOT install swing until the structure is ready to be used. DO NOT adjust swing height by modifying the length of the chains.

* Refer to PAGE 2 for footing details.

NOTE A: The minimum allowed distance from finished playground surface to the bottom of the tire swing seat is 305mm[12"].





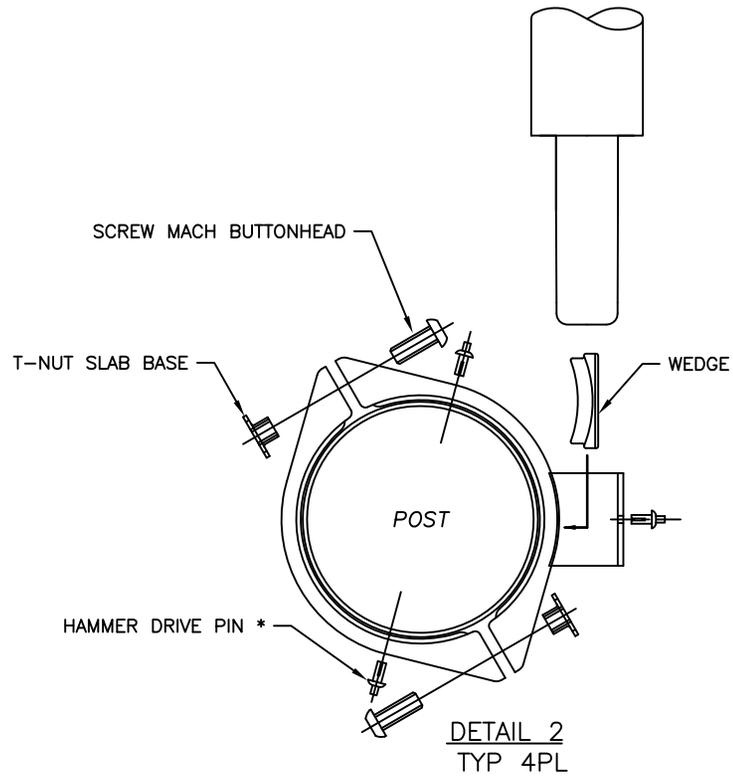
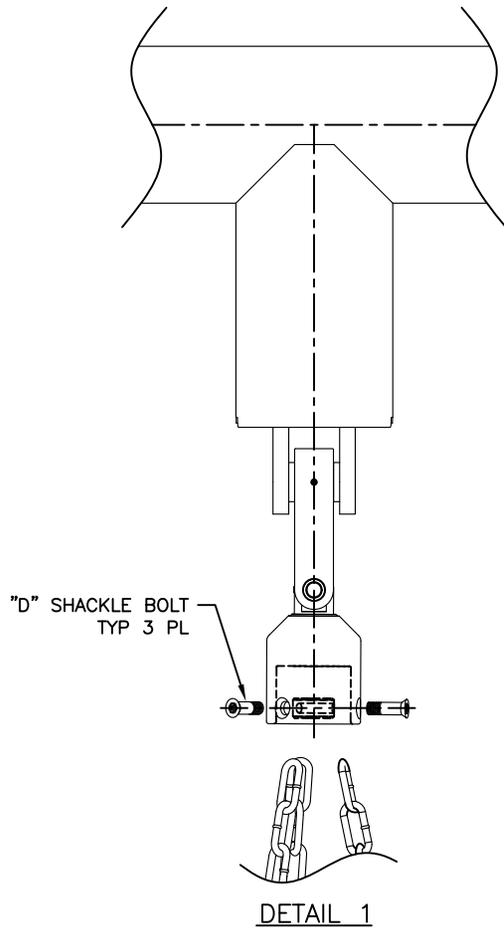
commercial play systems

TIRE SWING W/SS SWIVEL

1800019C

Sheet 4 of 5

AUTHORIZED BY: 10SEPT18
Tracy Archer





commercial play systems

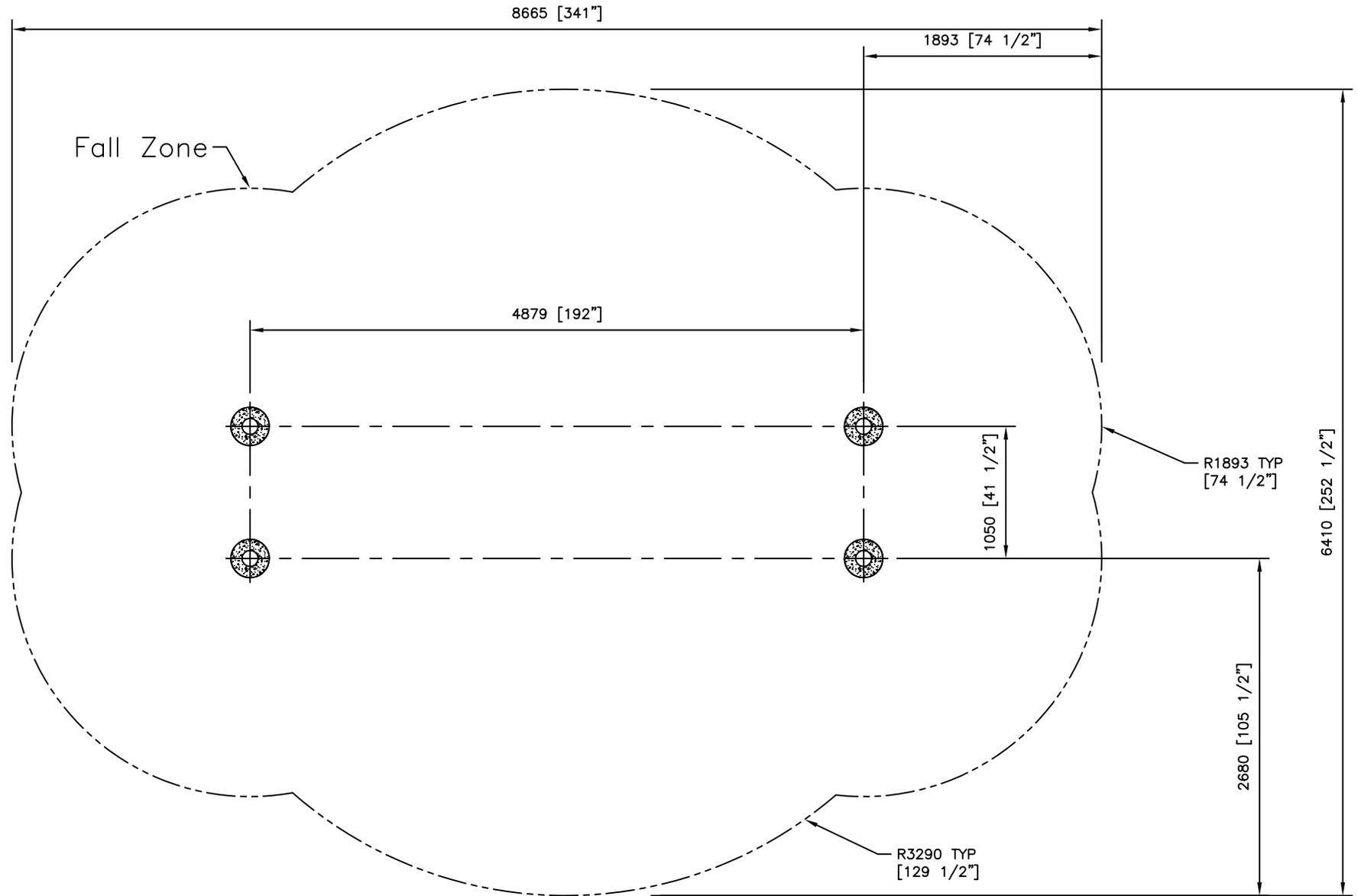
TIRE SWING W/SS SWIVEL

1800019C

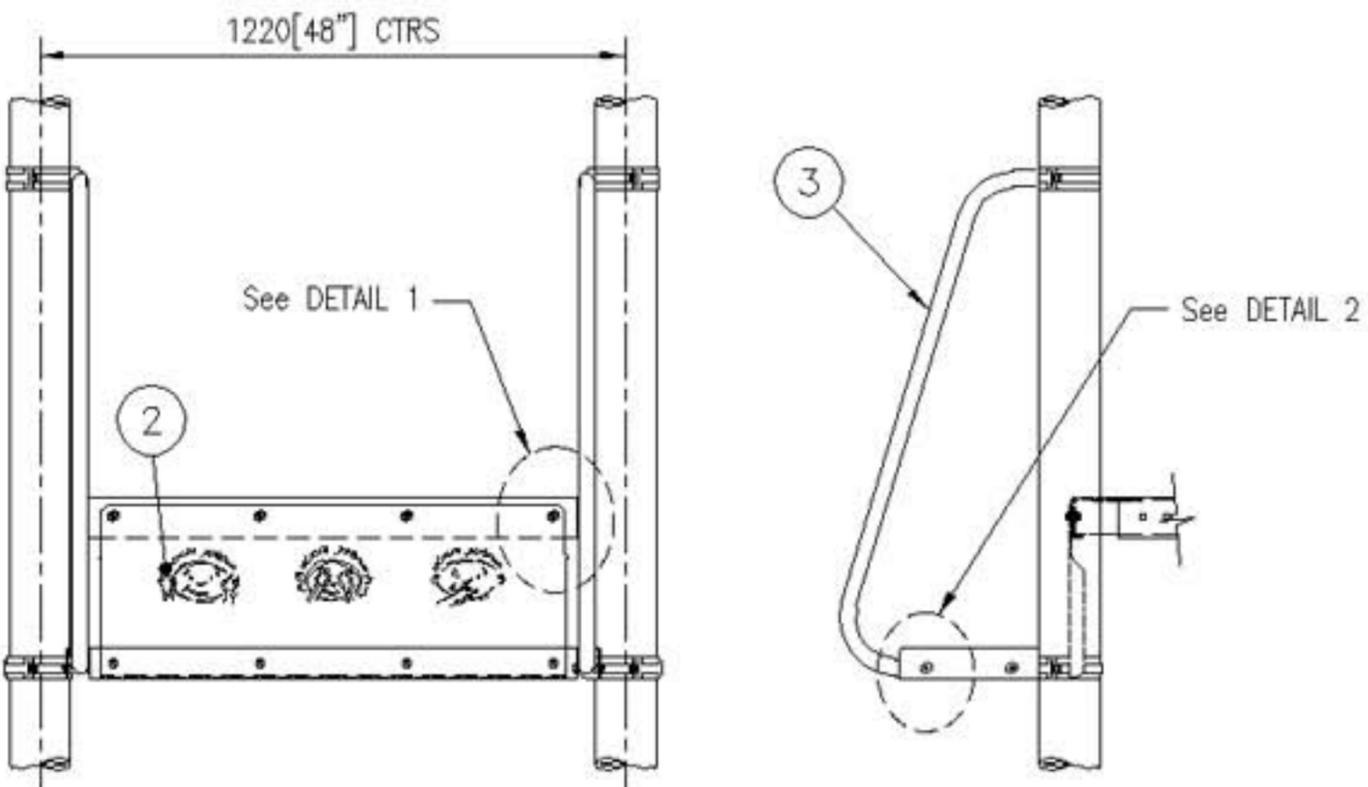
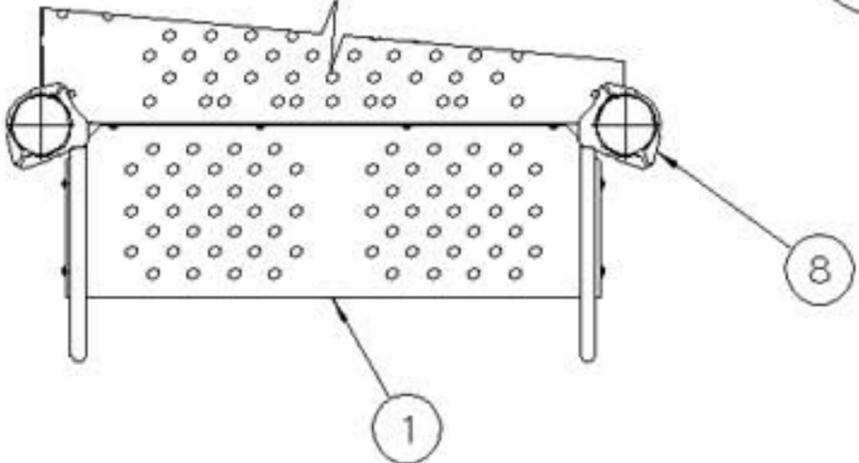
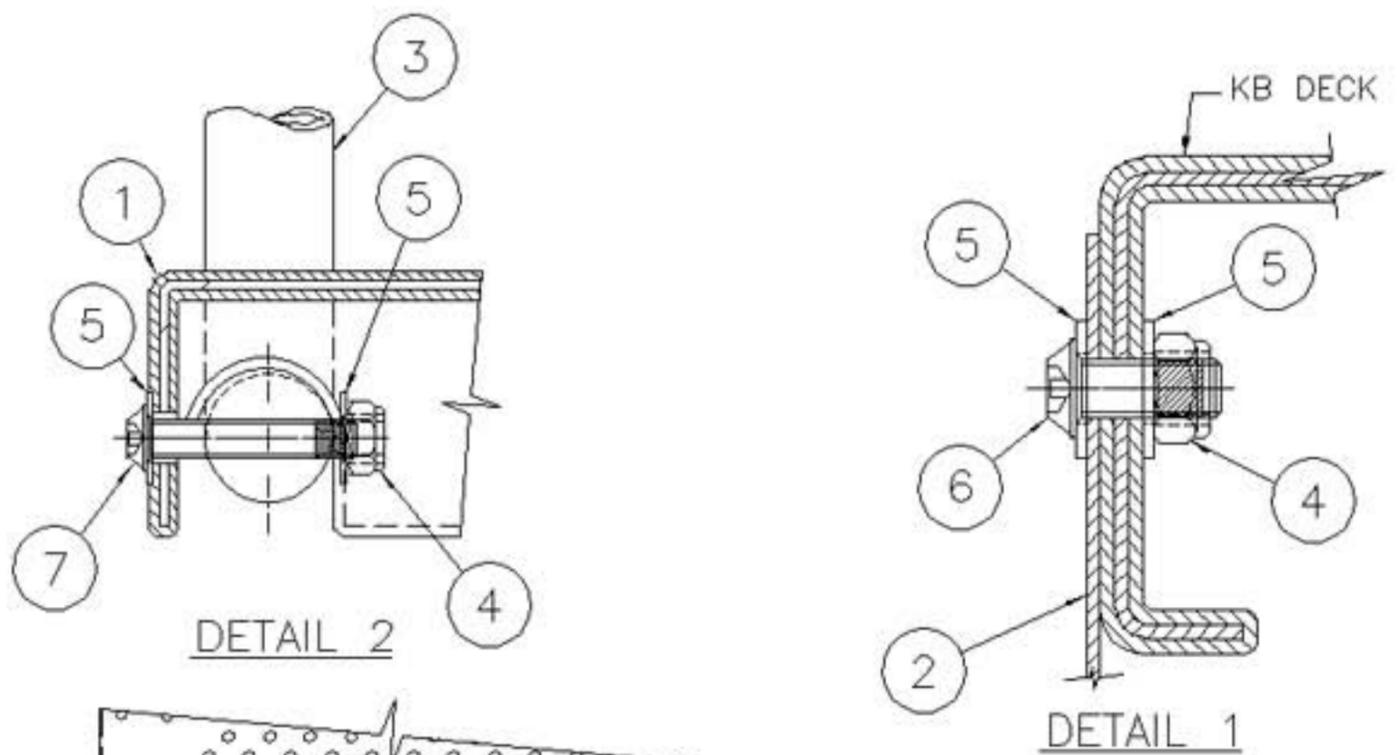
Sheet 5 of 5

FOOTING LAYOUT & FALL ZONE

AUTHORIZED BY: Tracy Archer
10SEPT18



AUTHORIZED BY:
Joe Mitchell 02JUN08



- 305[12"] ONE STEP DECK
200006950
- 203[8"] ONE STEP DECK
200006949
- DECK 1-STEP 205/8" KB (SMALL HOLES)
200200410
- DECK 1-STEP 305-12" KB (SMALL HOLES)
200200411

Item	Code	Description	Qty.
1a	-	DECK STEP F/ KB W/27mm HOLES	1
1b	-	DECK STEP F/ KB (SMALL HOLES)	1
2a	-	PLATE DK/DK KB 12"/305MM	1
2b	-	PLATE DK/DK KB 8"/203MM	1
3	-	HANDRAIL LOOP F/KB STEP DECKS	2
8	-	KB HOODED RAIL CLAMP	4

HWDR BAG F/KB 1-STEP DECK
200007751

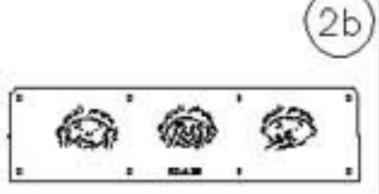
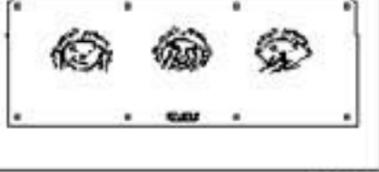
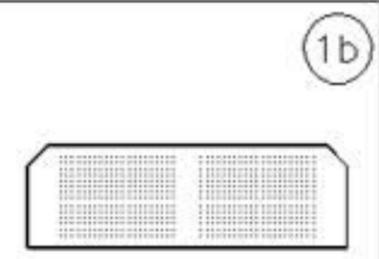
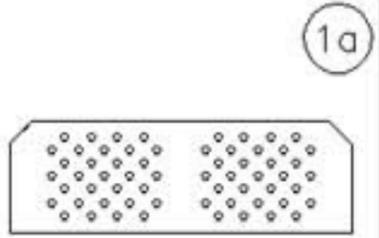
Item	Code	Description	Qty.
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	12
5	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	24
6	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20mm	8
7	200002150	SCREW MACH BUTTONHEAD M10 X 1.50 X 55mm	4

Application

- Handicapped accessible (203[8"] model only).
- The highest deck that a 203mm Step Deck can be attached to is a 508[20"].
- The highest deck that a 305mm Step Deck can be attached to is 610[24"].

Installation Instructions

1. Attach the Deck to Deck plate to the back side of the Step Deck using the hardware shown in DETAIL 1. IMPORTANT: Bolt heads should always be on the plate side.
2. Loosely attach the Hooded Rail Clamps to the posts above and under the deck (refer to front of manual for clamp installation detail).
3. Attach the top of the Deck to Deck Plate to the front of the deck (refer to DETAIL 1).
4. Insert both ends of the handrails into the Clamps and raise into position. (The lower end of the handrail will fit into the Step Deck.)
5. Fasten both sides of the Step Deck to both handrails (refer to DETAIL 2).
6. Tighten all hardware and install clamp drive pins.



1a

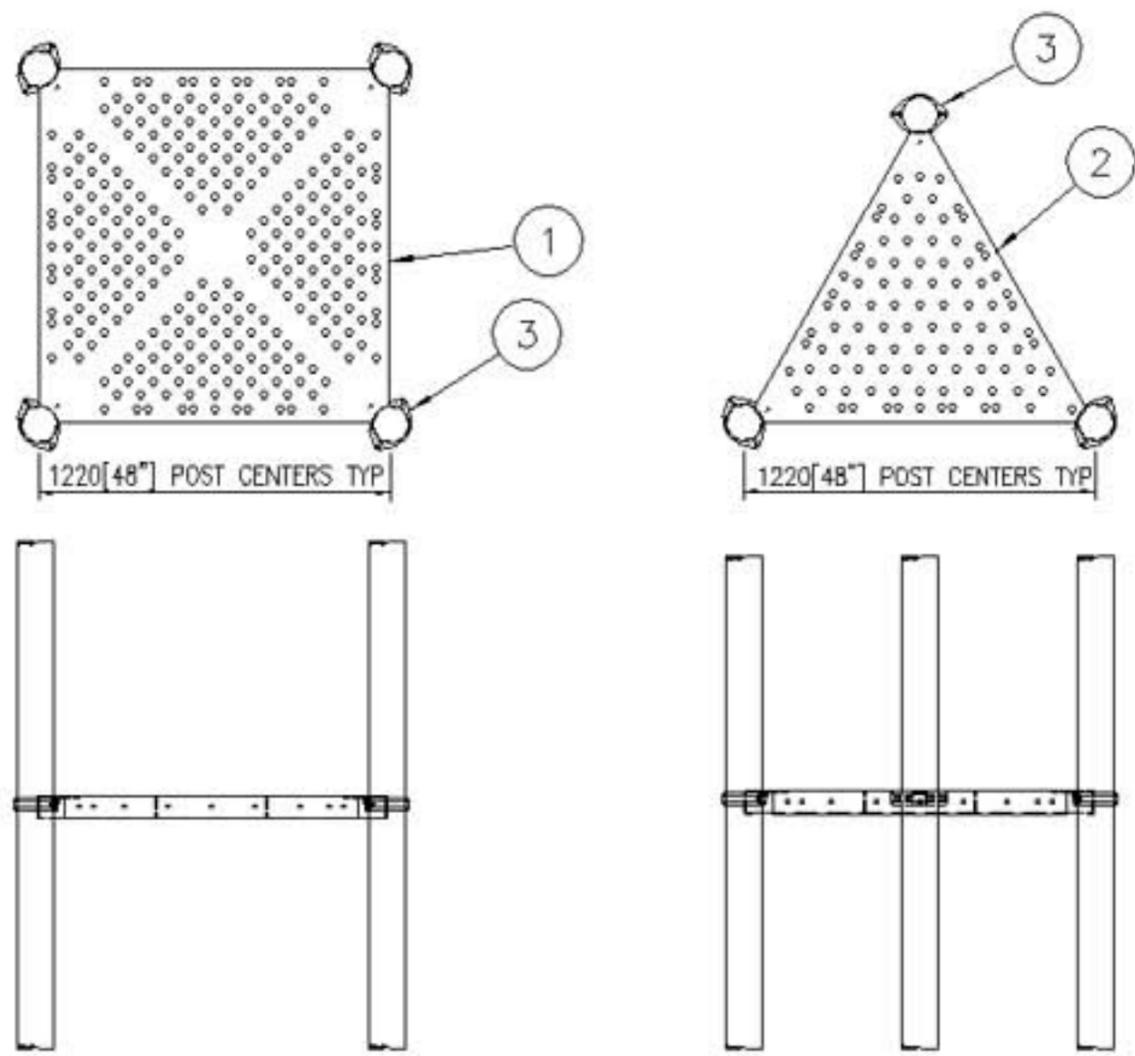
1b

2a

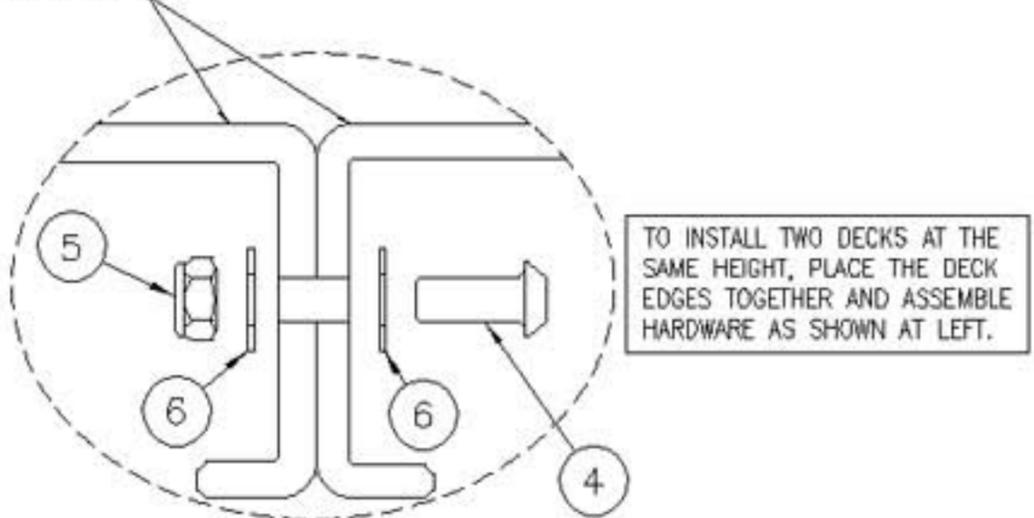
2b

3

AUTHORIZED BY:
Eric Clinton 18MAR11



KB DECKS



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

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

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

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

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

ADD-ON DECK HARDWARE BAG 200007704

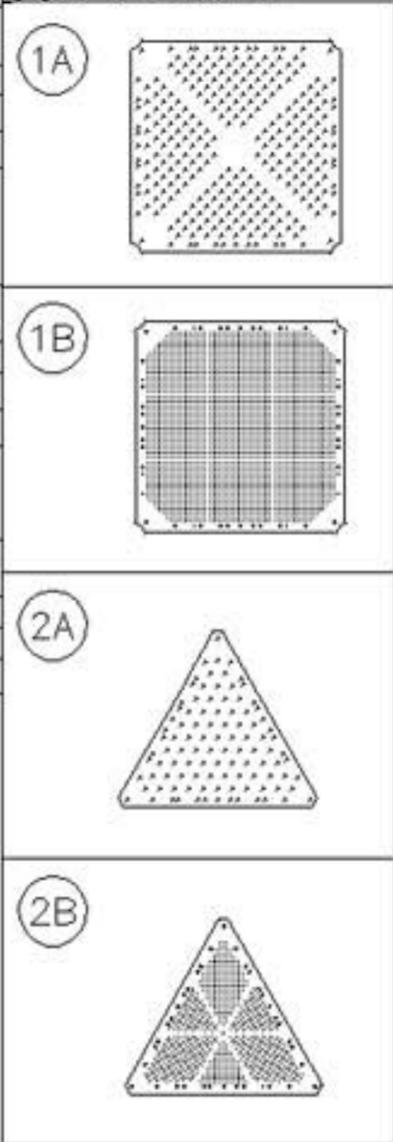
Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
6	200002079	WASHER FLAT M11 X 12 X 1.6MM	14

Application
AGE GROUPS (2-12 YEAR OLDS)

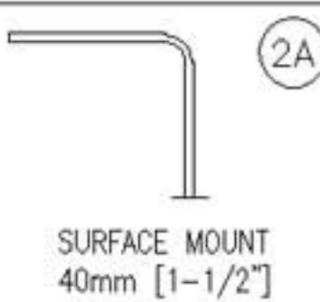
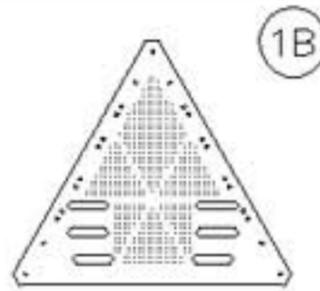
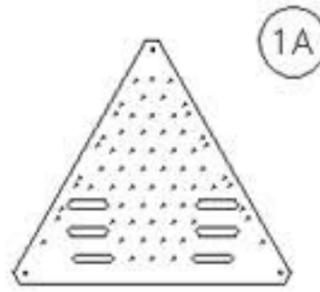
- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm[12"] without alternative means of access.
- A deck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

Installation Instructions

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



AUTHORIZED BY:
Eric Clinton 04APR11



TRANSITION LOOP
200013919
KB TRANS STAT(DK W/LOOP)11GA
200202548
KB TRANS STAT(DK W/LOOP)(SM HL)11GA
200202549

Item	Code	Description	Qty.
1A	-	DECK TRIANGLE TRANSFER KB W/27 MM HOLES	1
1B	-	DECK TRIANGLE TRANSFER KB (SMALL HOLES)	1
2A	-	KB TRANSFER LOOP SURFACE MT 40MM	1
2B	-	KB TRANSFER LOOP SURFACE MT 305MM	
2C	-	KB TRANSFER LOOP INGROUND	
3	200000797	HAMMER DRIVE PIN 4.7 X 11.11 MM	9
4	-	KB-DECK CLAMP ASSEMBLY	3
5	-	KB HOODED RAIL CLAMP ASSEMBLY	1
6 *	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100 MM	4

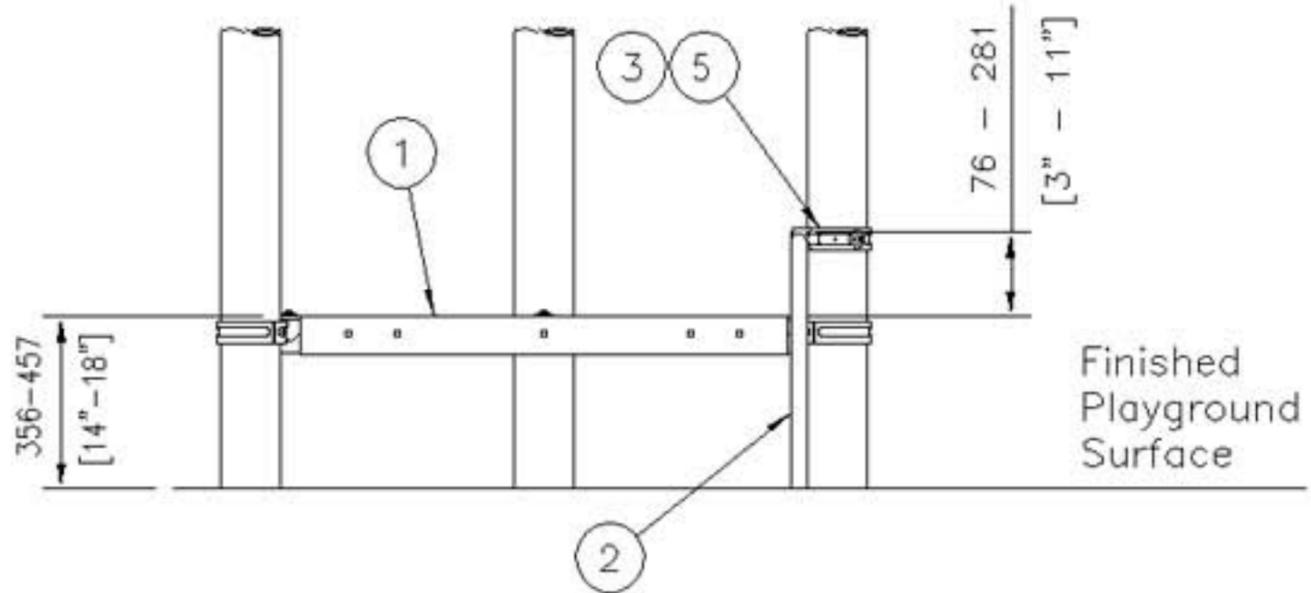
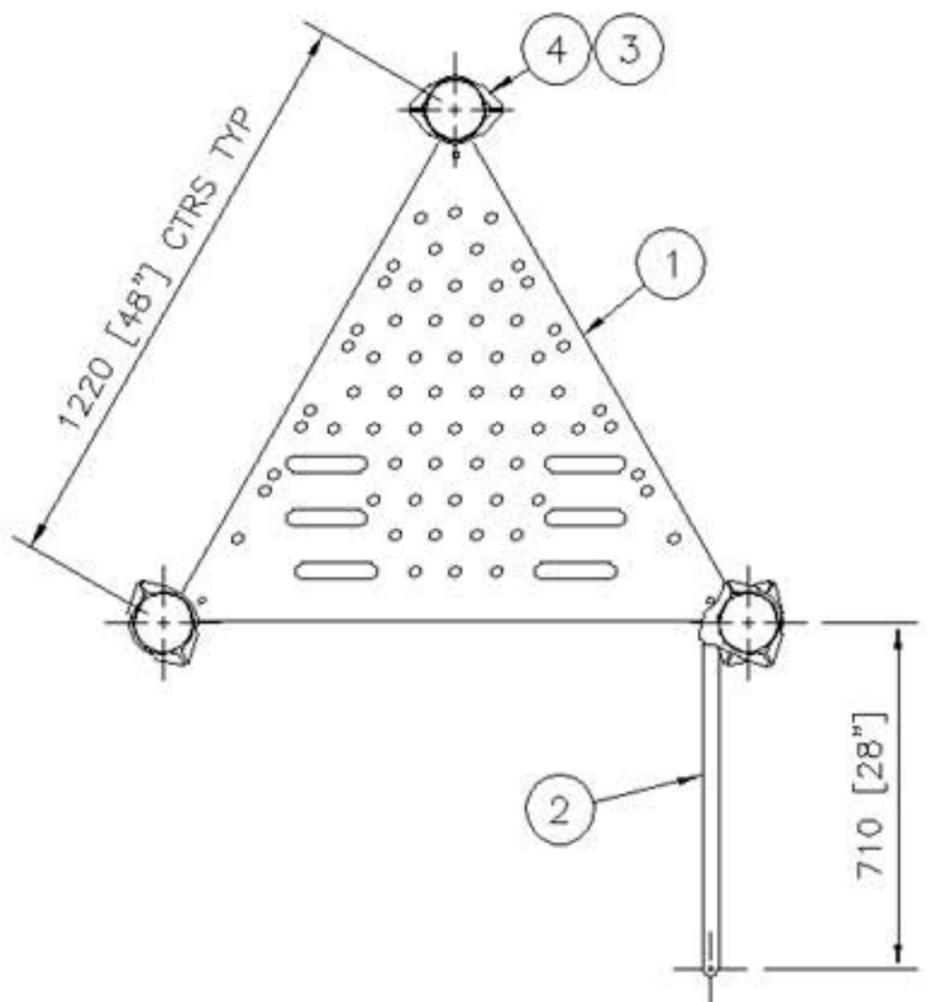
* USED WITH SURFACE MOUNT ONLY

Application

- For ages 2-12 years
- Deck top must be installed between 356 and 457 mm [14" and 18"].
- Loop must be installed on a post near hand hold slots on deck.

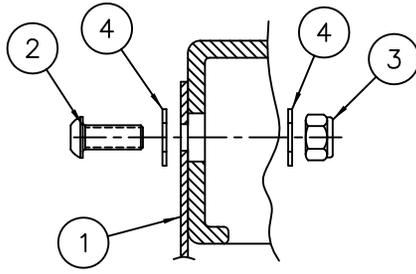
Installation Instructions

1. Prepare footings.
2. Attach deck to posts (refer to deck installation instruction for assembly).
3. Loosely attach the hooded rail clamp to post.
4. Insert loop into hooded rail clamp (refer to the front of the manual for clamp installation detail).
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.

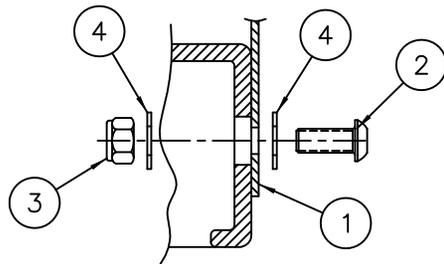


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

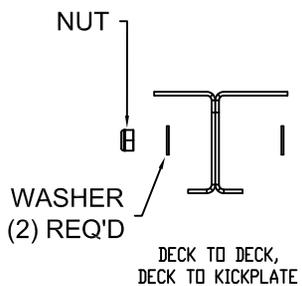
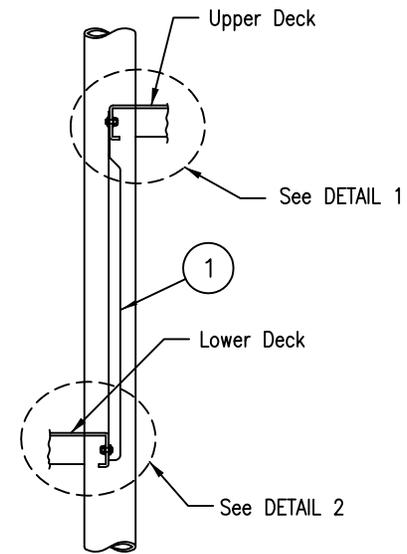
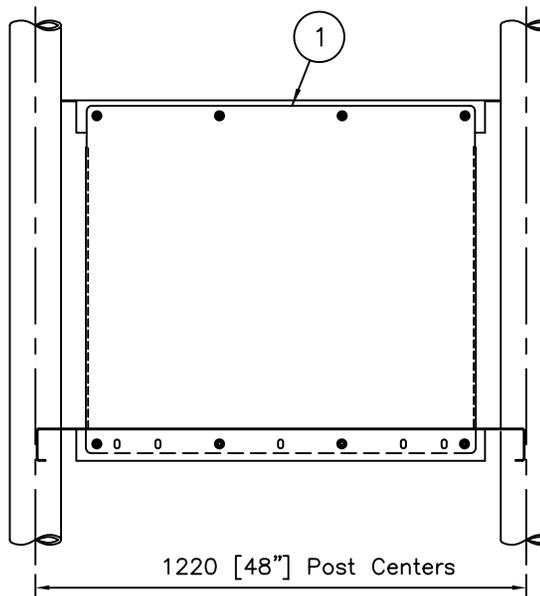
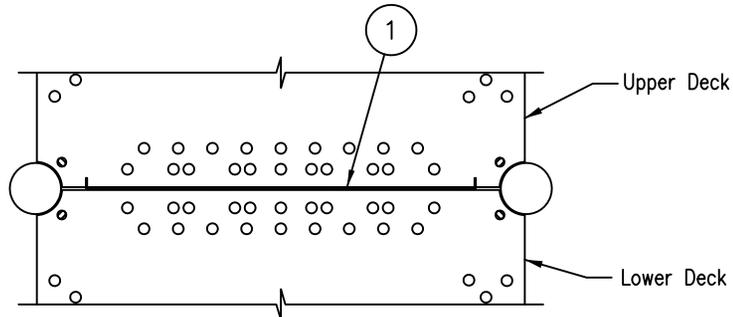
AUTHORIZED BY: 13JUN19
Matt Blisard



DETAIL 1
Type 4 Places

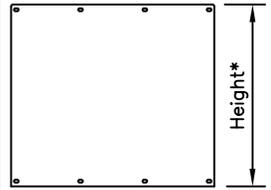


DETAIL 2
Type 4 Places



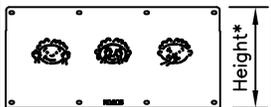
DO NOT OVERTIGHTEN BOLTS OR DAMAGE MAY OCCUR TO THE PVC COATING ON COMPONENTS. BOLTS HAVE A THREAD LOCK PATCH. IT IS NOT NECESSARY THAT THE BOLT EXTEND INTO THE NYLON PORTION OF THE NYLOCK NUT.

1A - 1F



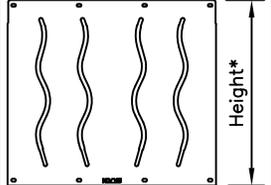
*Height will vary according to distance between decks

1G



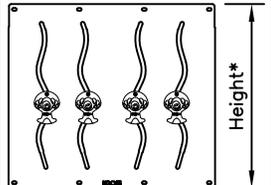
*Height will vary according to distance between decks

1H



*Height will vary according to distance between decks

1J



*Height will vary according to distance between decks



205/305/405/610/710/815 DECK TO DECK PLATES

KB200001E

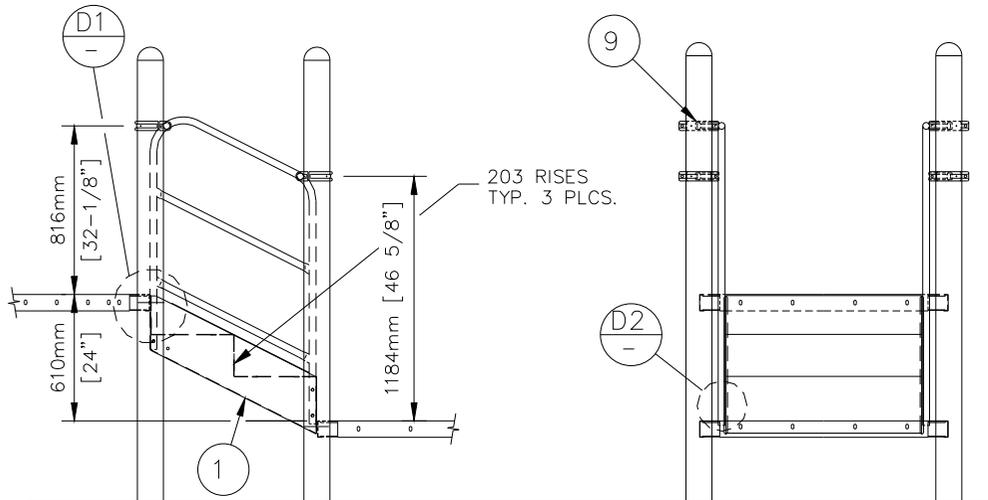
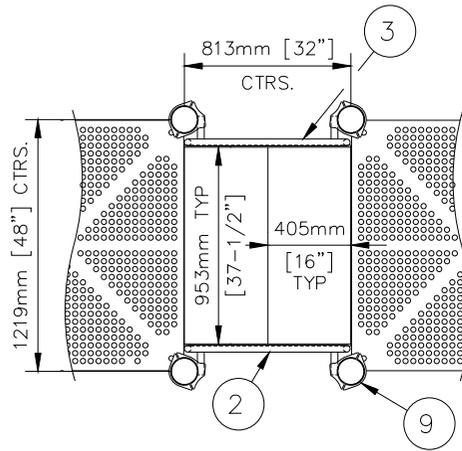
Sheet 2 of 2

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Matt Blisard

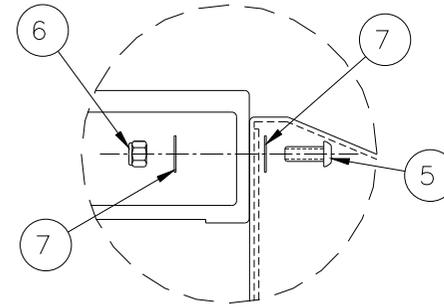
<p>205mm [8"] DK/DK PLATE 100001134 305mm [12"] DK/DK PLATE 100001137 405mm [16"] DK/DK PLATE 100001139 610mm [24"] DK/DK PLATE 100001142 710mm [28"] DK/DK PLATE 100001144 815mm [32"] DK/DK PLATE 100001148</p> <p>205mm [8"] DK/DK PLATE W/FACES 200200187 305mm [12"] DK/DK PLATE W/FACES 200200188 405mm [16"] DK/DK PLATE W/FACES 200200189 610mm [24"] DK/DK PLATE W/4 SLOTS 200200190 710mm [28"] DK/DK PLATE W/4 SLOTS 200200191 815mm [32"] DK/DK PLATE W/4 SLOTS 200200192 610mm [24"] DK/DK PLATE W/PARA. GUY 200200218 710mm [28"] DK/DK PLATE W/PARA. GUY 200200219 815mm [32"] DK/DK PLATE W/PARA. GUY 200200220</p>	<p>Application</p> <ul style="list-style-type: none"> - Must be used between all 203mm [8"] and 305mm [12"] increment decks. - When the lower platform exceeds 706mm [30"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 2-5 year age group. - When the lower platform exceeds 1220mm [48"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 5-12 year age group. <p>Installation Instructions</p> <ol style="list-style-type: none"> 1. Install posts and decks. Make sure the decks are level and at the proper height. 2. Attach the top of the Deck to Deck Plate to the front of the upper deck. See DETAIL 1. 3. Attach the lower portion of the Deck to Deck Plate to the lower deck. See DETAIL 2. 																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Item</th> <th style="width: 10%;">Code</th> <th style="width: 75%;">Description</th> <th style="width: 10%;">Qty.</th> </tr> </thead> <tbody> <tr> <td>1A</td> <td>200000047</td> <td>PLATE DK/DK 205MM/8" KB BRN</td> <td rowspan="10" style="text-align: center; vertical-align: middle;">1</td> </tr> <tr> <td>1B</td> <td>200000049</td> <td>PLATE DK/DK 305MM/12" KB BRN</td> </tr> <tr> <td>1C</td> <td>200000051</td> <td>PLATE DK/DK 405MM/16" KB BRN</td> </tr> <tr> <td>1D</td> <td>200000053</td> <td>PLATE DK/DK 610MM/24" KB BRN</td> </tr> <tr> <td>1E</td> <td>200000056</td> <td>PLATE DK/DK 710MM/28" KB BRN</td> </tr> <tr> <td>1F</td> <td>200000058</td> <td>PLATE DK/DK 815MM/32" KB BRN</td> </tr> <tr> <td>1G</td> <td>-</td> <td>PLATE DK/DK W/FACES F/KB</td> </tr> <tr> <td>1H</td> <td>-</td> <td>PLATE DK/DK W/4 SLOTS F/KB</td> </tr> <tr> <td>1J</td> <td>-</td> <td>PLATE DK/DK W/PARACHUTE GUY F/KB</td> </tr> <tr> <td colspan="4" style="text-align: center;"> <p>HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706</p> </td> </tr> <tr> <td>2</td> <td>200002018</td> <td>SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm</td> <td style="text-align: center;">8</td> </tr> <tr> <td>3</td> <td>200001945</td> <td>NUT LOCK HEX NYLON INSERTED M10 X 1.5</td> <td style="text-align: center;">8</td> </tr> <tr> <td>4</td> <td>200002079</td> <td>WASHER FLAT M11 23 X 12 X 1.6mm</td> <td style="text-align: center;">16</td> </tr> </tbody> </table>	Item	Code	Description	Qty.	1A	200000047	PLATE DK/DK 205MM/8" KB BRN	1	1B	200000049	PLATE DK/DK 305MM/12" KB BRN	1C	200000051	PLATE DK/DK 405MM/16" KB BRN	1D	200000053	PLATE DK/DK 610MM/24" KB BRN	1E	200000056	PLATE DK/DK 710MM/28" KB BRN	1F	200000058	PLATE DK/DK 815MM/32" KB BRN	1G	-	PLATE DK/DK W/FACES F/KB	1H	-	PLATE DK/DK W/4 SLOTS F/KB	1J	-	PLATE DK/DK W/PARACHUTE GUY F/KB	<p>HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706</p>				2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	8	3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8	4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	16	
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2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	8																																														
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8																																														
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	16																																														

AUTHORIZED BY:

Joe Pritchett 02JUN08

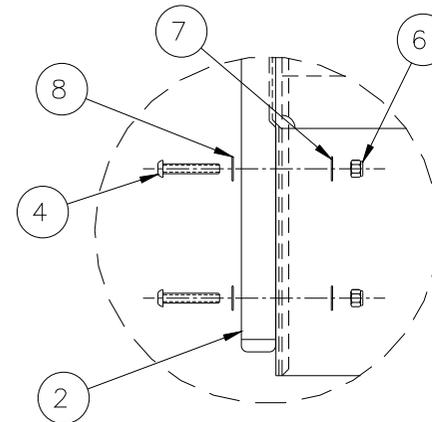


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



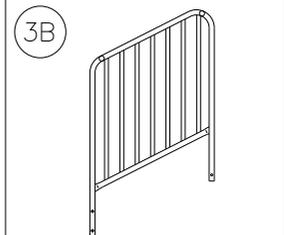
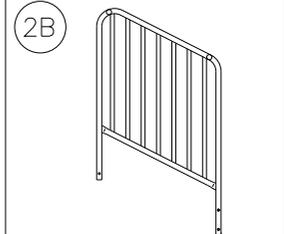
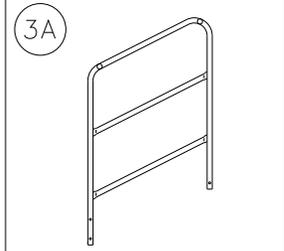
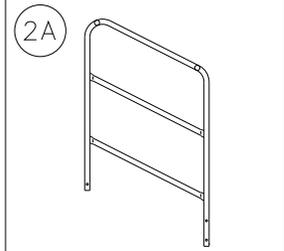
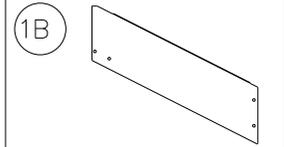
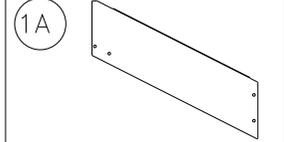
DETAIL D1
1:5 -

STEP TO DECK
ATTACHMENT DETAIL
TYP. 4 PLCS.
BOTH ENDS



DETAIL D2
1:5 -

RAIL TO DECK
ATTACHMENT DETAIL
TYP. 3 PLCS.
BOTH SIDES





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

200125474
KB200009D-S2
Sheet 2 of 2

AUTHORIZED BY:
Joe Fitchett 02JUN08

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

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

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

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

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

HDWR BAG F/KB DECK-TO-DECK STEPS

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

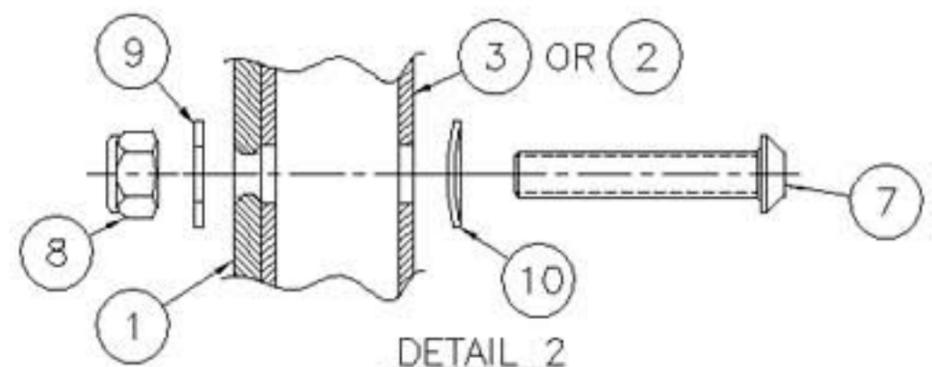
Application

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

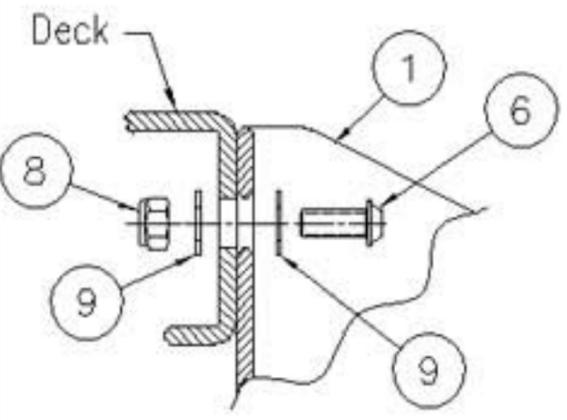
Installation Instructions

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

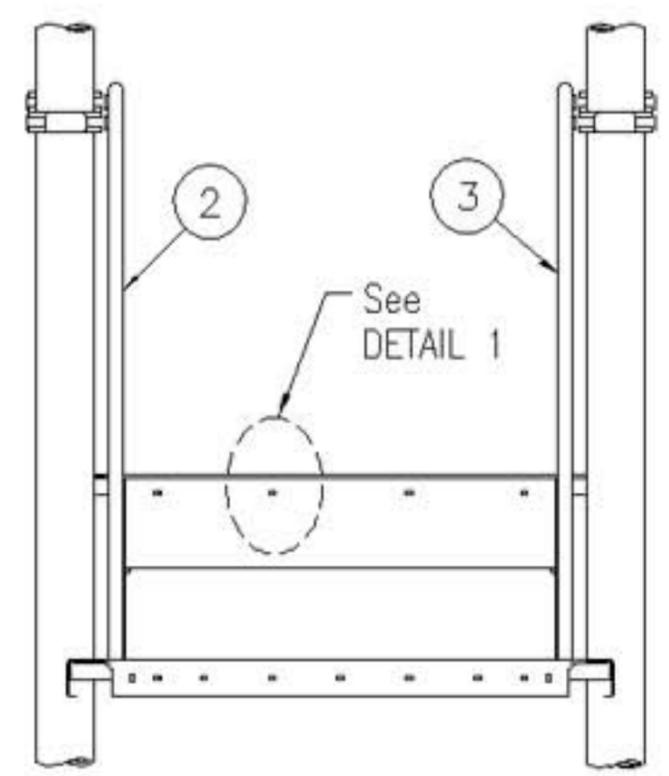
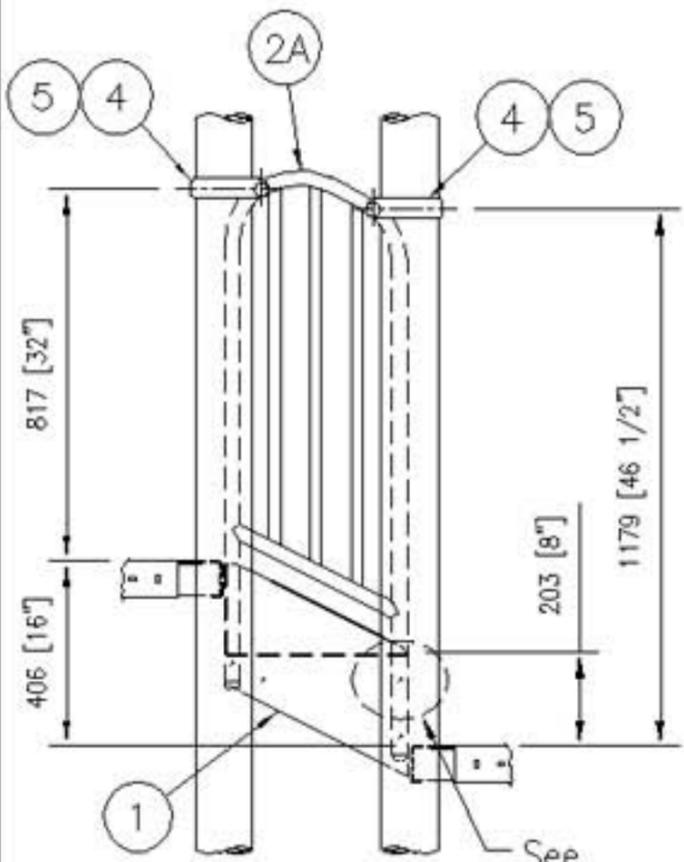
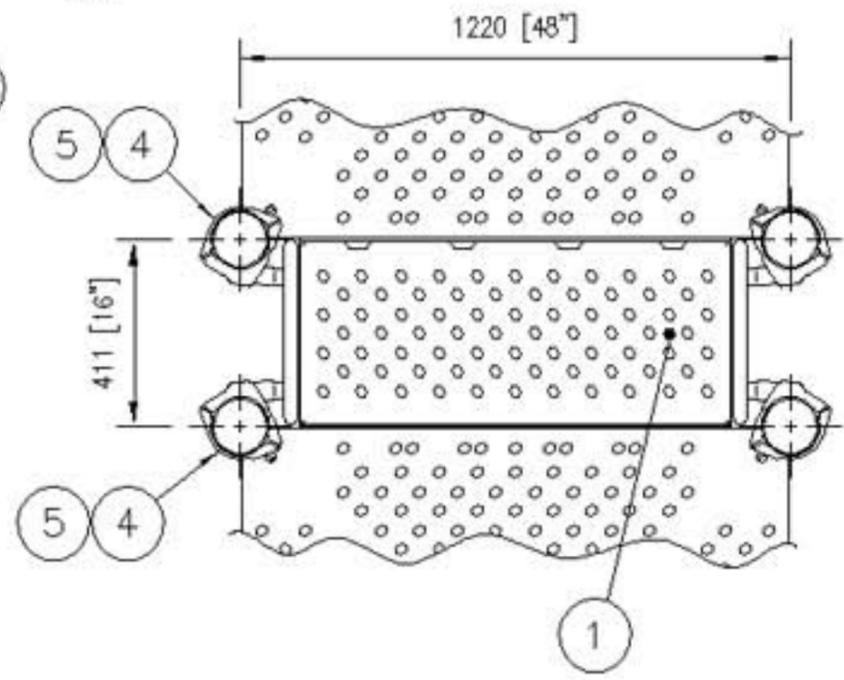
AUTHORIZED BY: 18MAR08
Eric L. Claudus



DETAIL 2
Typ 6 Places



DETAIL 1
Typ 8 Places



KB STEPS DK/DK 406MM W/SAFETY RAILS(LG) 200201306
KB STEPS DK/DK 406MM W/SFTY RL(SM.HOLE) 200201307

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2A	-	SAFETY RAIL LFT.KB 406 DK/DK.	1
3A	-	SAFETY RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

KB STEPS DK/DK 406MM W/GUARD RAILS 200201304
KB STEPS DK/DK 406MM W/GRD RL(SM.HOLE) 200201305

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2B	-	GUARD RAIL LFT.KB 406 DK/DK.	1
3B	-	GUARD RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

HDWR BAG F/KB 406MM DECK TO DECK STEPS
200041200

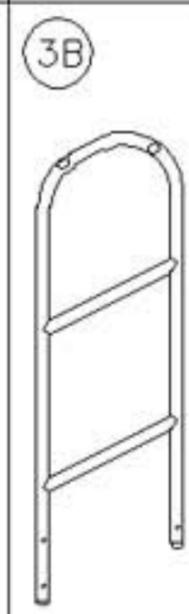
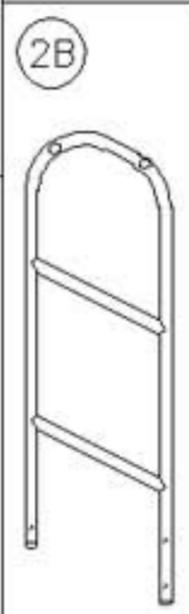
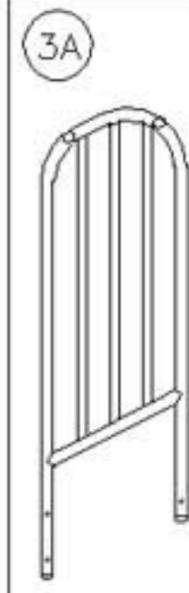
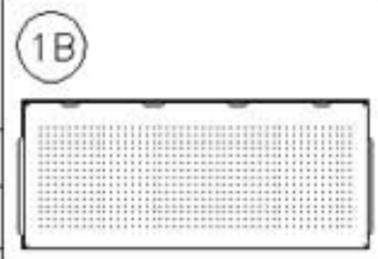
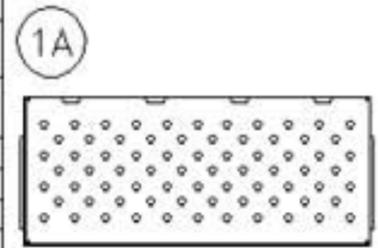
Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
7	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	6
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	14
9	200002079	WASHER FLAT M11 23 X 12 X 1.6	22
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	6

Application

- For use between two decks which are 406mm [16"] different in height.
- If the component includes guard rails and is predominantly used by 5-12 year olds, the upper deck must be 1220mm [48"] or less.
- If using guard rails and it will be predominantly used by 2-5 year olds, the upper deck must be 762mm [30"] or less.
- Safety Rails are acceptable in all applications.

Installation Instructions

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



AUTHORIZED BY:
BARRY WILFONG 15JUN12

DECK HEIGHT	A DIM	B DIM
1422 [56"]	1464 [57 5/8"]	531 [21"]
1625 [64"]	1068 [42"]	531 [21"]
1830 [72"]	649 [25 1/2"]	531 [21"]

OCTOPUS ROPE CLMBR W/SFTY LP(RED/BLU) 200200532
OCTOPUS ROPE CLMBR W/SFTY LP(TAN/GRN) 200200533

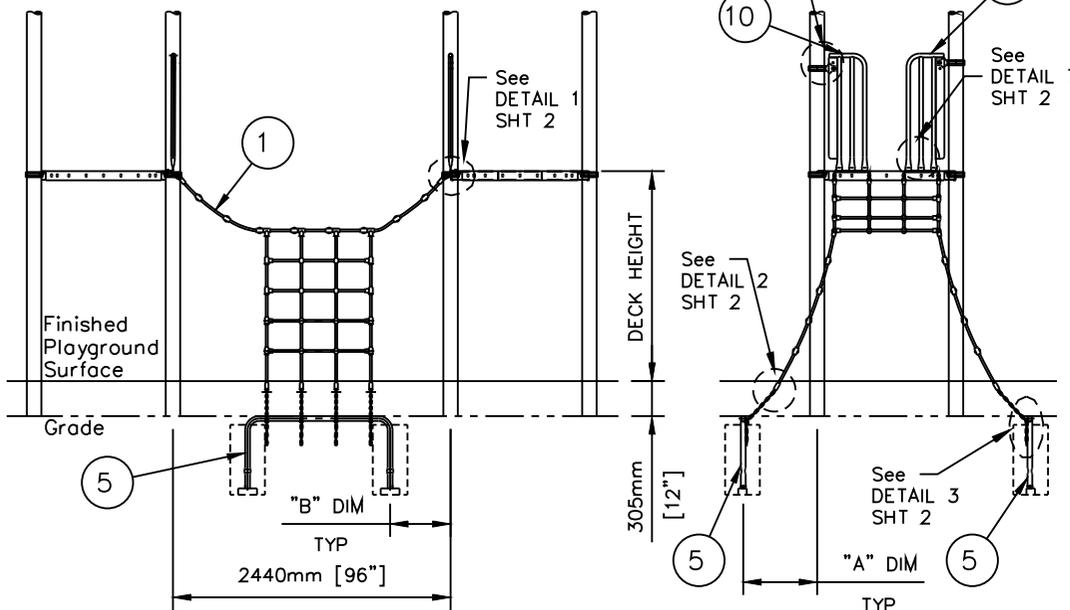
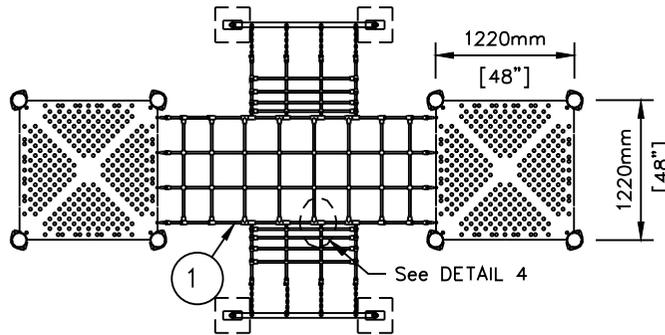
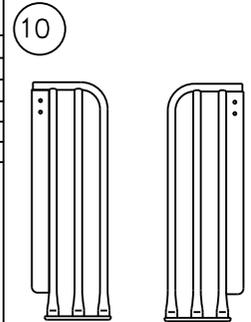
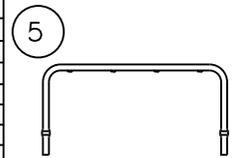
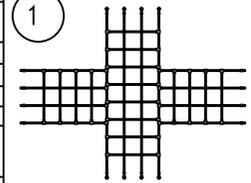
Item	Code	Description	Qty.
1	-	OCTOPUS CLIMBER F/KB	1
5	-	GROUND BAR	2
8	200140298	CHAIN 16 LINKS 4/0 H.D. GALV.	8
10	-	SAFETY LOOP ASSY F/KB WITH 2 WING CLAMPS	2

HDWR BAG F/KB OCTOPUS ROPE CLIMBER 200151916

Item	Code	Description	Qty.
2	200002096	WASHER FLAT M10 34 OD X 11ID X 3 MM THK	8
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
6	200035993	SHACKLE "D" STYLE 41MM 300 S.S. (SMALL)	8
7	200035994	BOLT M10 X 1.5 X 27 MM 300 SS 6-LOBE(SM)	8
9	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	8

HDWR BAG F/KB SAFETY RAIL 200007712

Item	Code	Description	Qty.
2	200002096	WASHER FLAT M10 34 OD X 11ID X 3 MM THK	8
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	12
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	12
11	200002079	WASHER FLAT M11 23 X 12 X 1.6	16



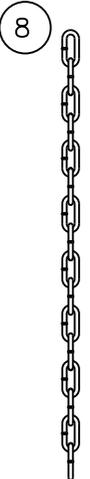
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

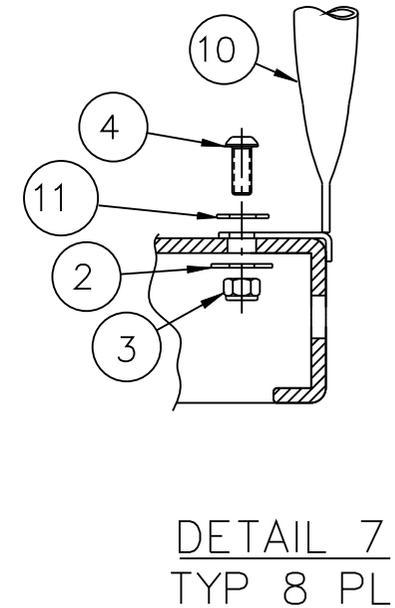
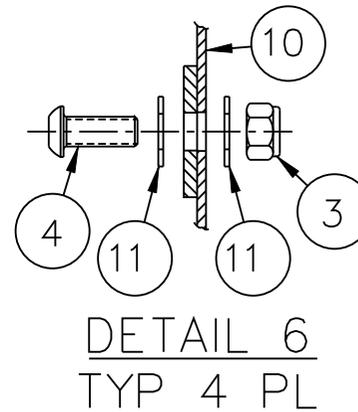
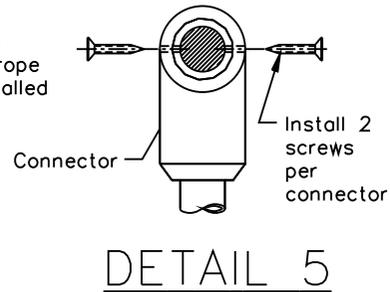
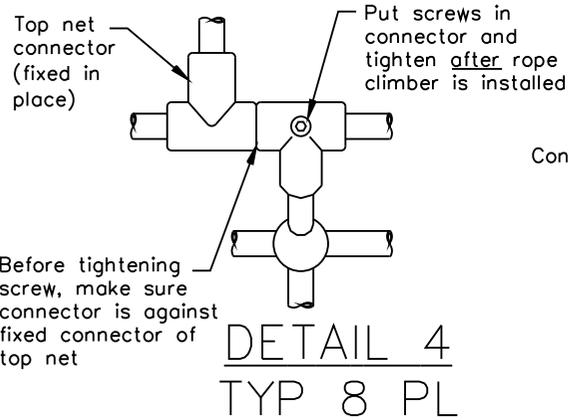
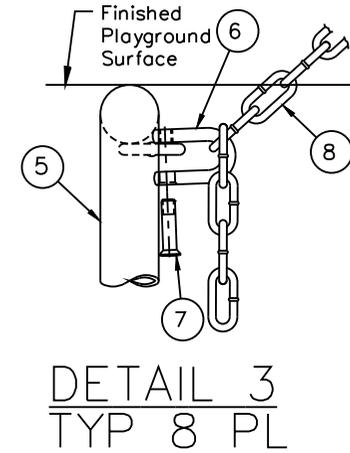
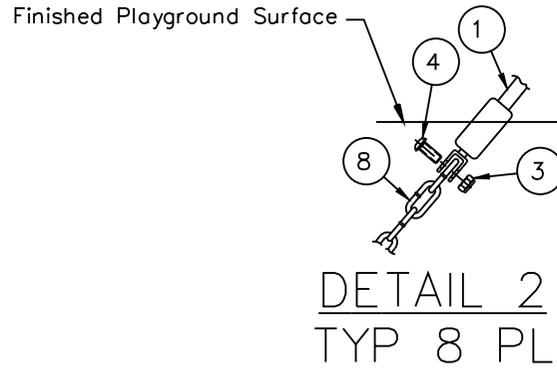
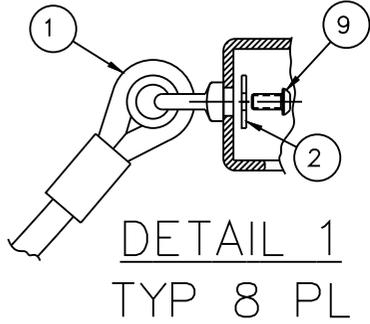
Application

- Age Group 5-12 year old
- Cannot be used as sole access.
- Never install climber without safety loops.
- To be installed on deck heights between 1422 [56"] up to 1830 [72"]
- Install resilient safety surfacing.

Installation Instructions

1. Prepare footings, see deck height reference chart for footing locations. Consult front of KB manual for footing details.
2. Install Ground Bar (item 5), and allow ample time for concrete to cure.
3. Once footing is cured, attach Octopus Climber (item 1) to deck edge as shown in DETAIL 1.
4. Attach chains (item 8) to Octopus Climber (item 1) as shown in DETAIL 2. Then attach other end of chain (item 8) to Ground Bar (item 5) as shown in DETAIL 3. To tension the climber taut, adjust chains at the Ground Bar (item 5).
5. Install screws in the pre-drilled holes in plastic connectors of the 2 side nets (2 screws per connector). Refer to DETAILS 4 & 5.
6. Install Safety Loops (item 10). Refer to front of KB manual.





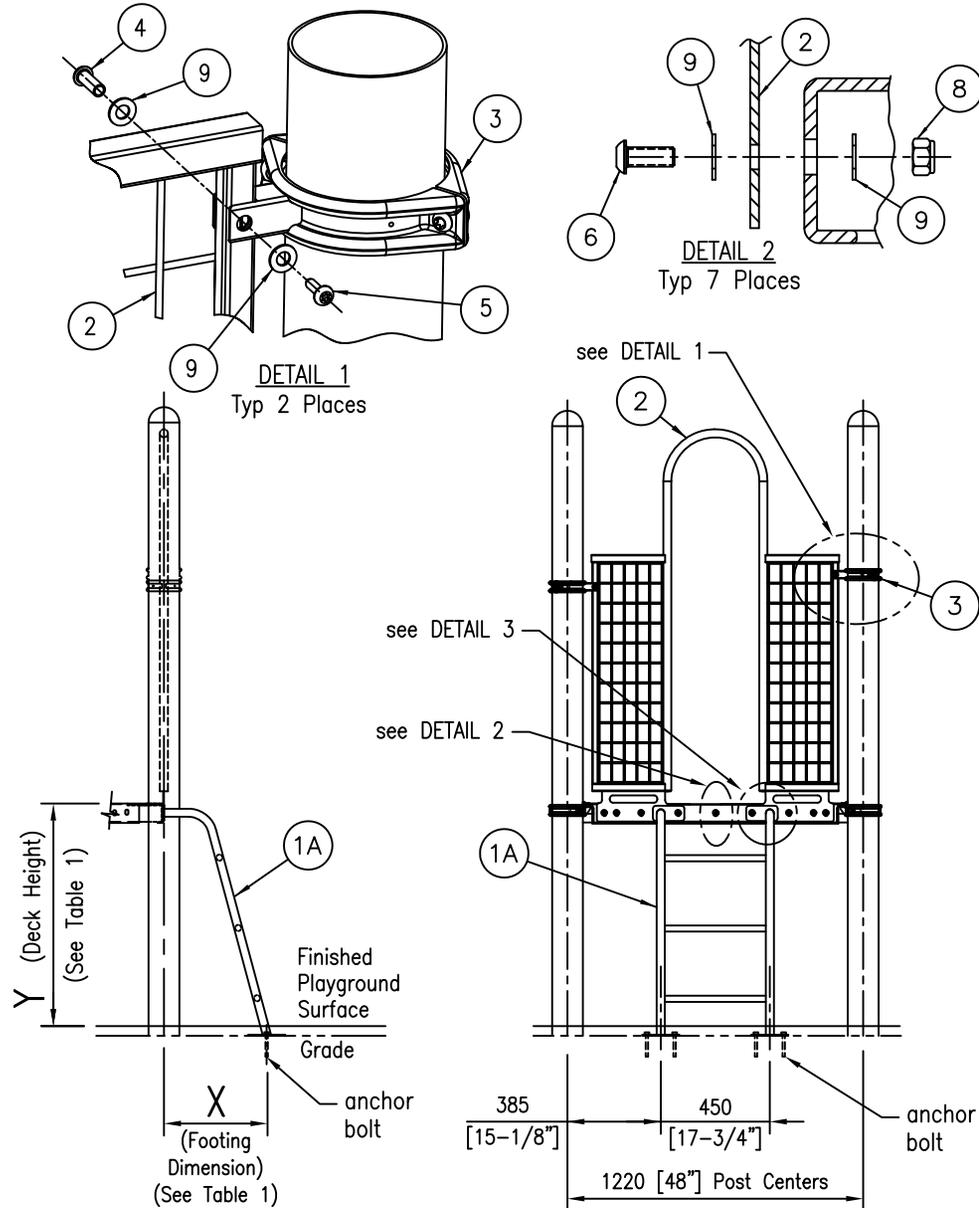


RUNG LADDER W/WIRE ENCL 610/915/1016/1220/1625mm

200313387
KB300158A-S1
Sheet 1 of 2

AUTHORIZED BY: 10DEC14

Chris M. M... ..



Surface Mount Version

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

- RUNG LADDER 24" F/KB W/WIRE ENCL 200203369
- RUNG LADDER 36" F/KB W/WIRE ENCL 200203370
- RUNG LADDER 40" F/KB W/WIRE ENCL 200203371
- RUNG LADDER 48" F/KB W/WIRE ENCL 200203372
- RUNG LADDER 64" F/KB W/WIRE ENCL 200203373

Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	912303	ENCL CLIMB MESH F/KB W/O STUB	1
3	-	KB SQUARE TUBE CLAMP ASSEMBLY	2

HDWR PKG F/KB RUNG LADDERS W/WIRE HW909138-1

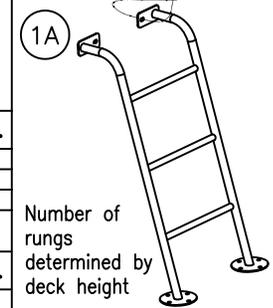
Item	Code	Description	Qty.
4	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	2
5	200002133	BOLT M8 X 1.25 MALE 27.5mm	2
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	7
7	200002030	SCREW MACH BUTTONHEAD M10 X 1.5 X 30MM	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	9
9	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 mm THK	22

Application

- Cannot be used as sole access to equipment.

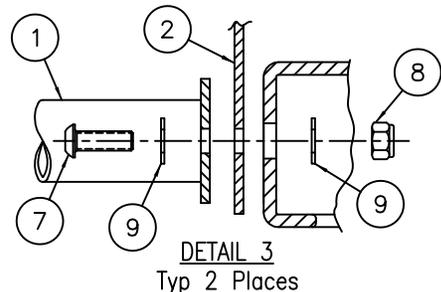
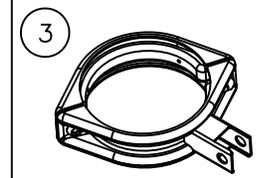
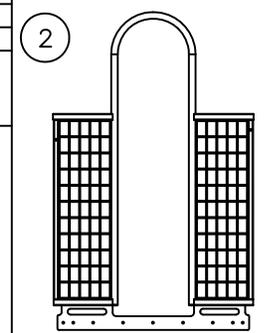
Installation Instructions

1. Prepare footings. See TABLE 1 on sheet 1 for surface mount footing dimensions. See TABLE 2 on sheet 2 for inground mount footing dimensions.
2. Loosely attach clamps (refer to front of manual for additional clamp installation details).
3. Place Mesh Enclosure on deck as shown in main view. Attach bottom plate to deck in the 7 holes that do not have the Rung Ladder plate attachments as shown in DETAIL 2, and to clamps as shown in DETAIL 2. Note: Small tab in clamp is designed to be bent out as necessary for panel installation.
4. Attach Rung Ladder plates to the deck edge and bottom plate of Mesh Enclosure in 2 holes as shown in DETAIL 3.
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.



Number of rungs determined by deck height

Surface Mount



DETAIL 3
Typ 2 Places

TABLE 1

Surface Mount Footing Dimensions			
"Y" Deck Height	"X" Ground Cover		"X" Ground Cover
	40mm [1-1/2"]	305mm [12"]	
610 [24"]	346 [13-5/8"]	417 [16-7/16"]	
915 [36"]	427 [16-13/16"]	499 [19-5/8"]	
1016 [40"]	454 [18"]	525 [20-5/8"]	
1220 [48"]	509 [20"]	581 [22-7/8"]	
1625 [64"]	618 [24-5/16"]	689 [27-1/8"]	

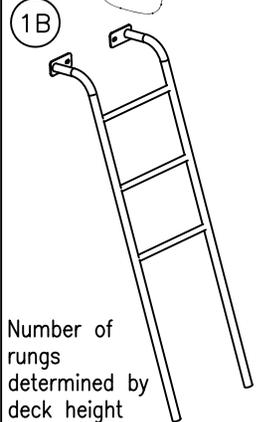


RUNG LADDER W/WIRE ENCL 610/915/1016/1220/1625mm

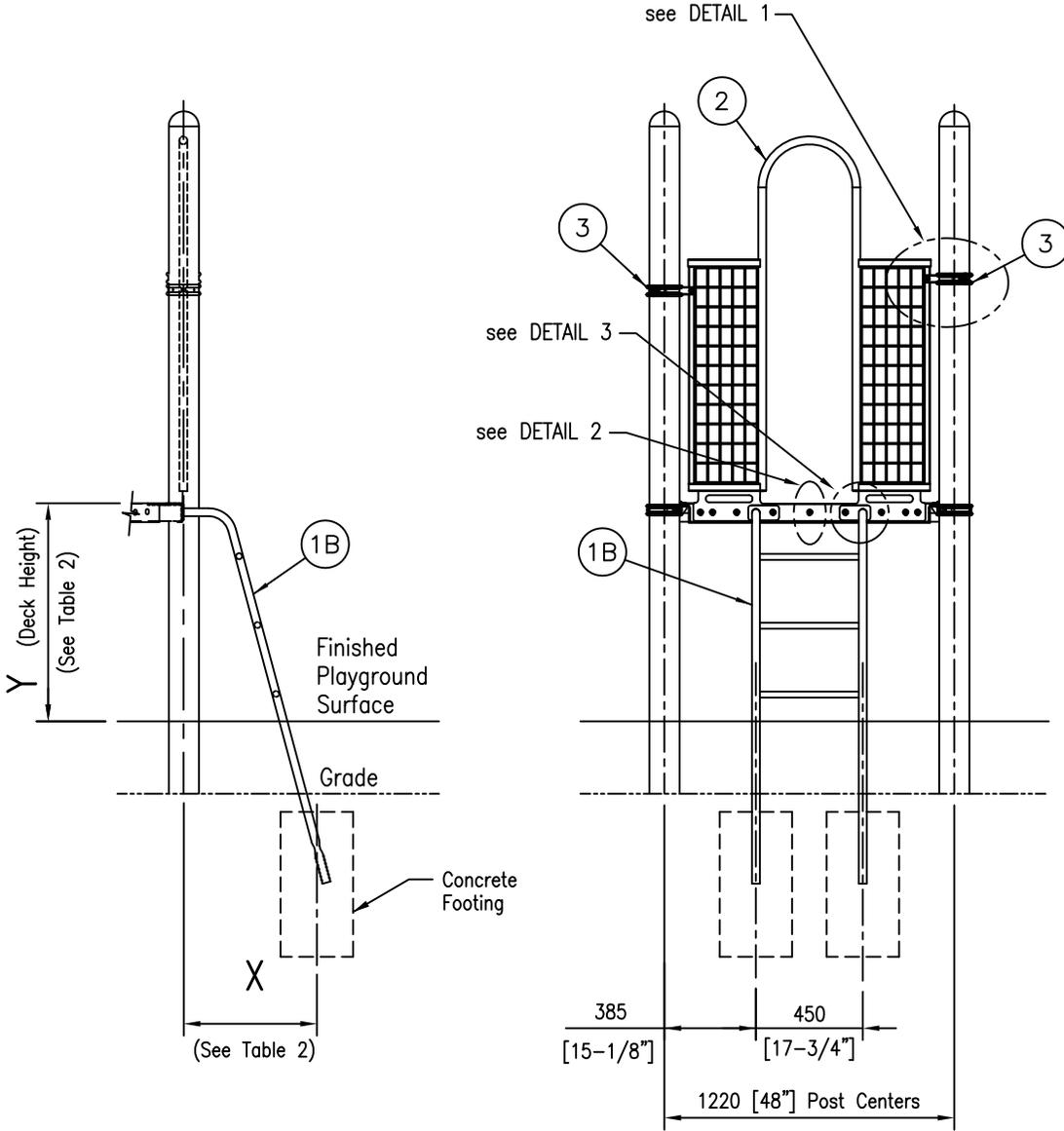
200313387
KB300158A-S2
Sheet 2 of 2

AUTHORIZED BY: 10DEC14

Chris M. Newberry



Inground Mount



Inground Mount Version

TABLE 2

Inground Mount Footing Dimensions	
"Y" Deck Height	"X" 305mm [12"] Ground Cover
610 [24"]	478 [18-13/16"]
915 [36"]	559 [22"]
1016 [40"]	573 [22-1/2"]
1220 [48"]	641 [25-1/4"]
1625 [64"]	750 [29-1/2"]



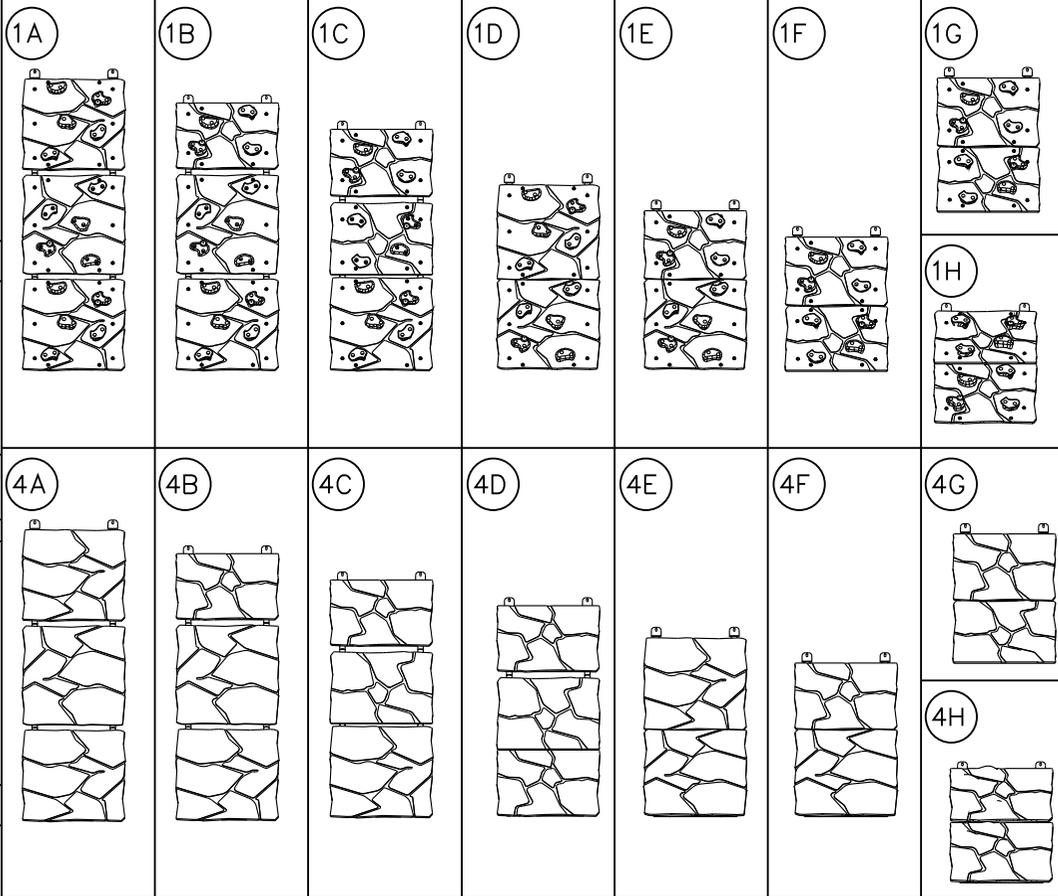
KB TILTED ROCK CHALLENGE WALL / NU-EDGE CHALLENGE WALL

200196344

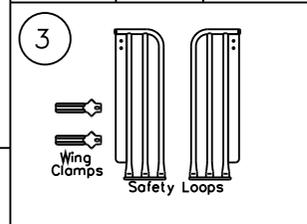
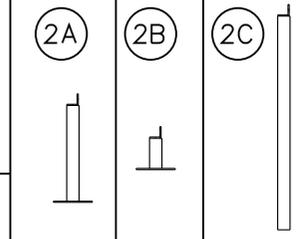
KB300230B

Sheet 1 of 2

KB TILTED ROCK CHALLENGE WALL 96"	200202482
KB TILTED ROCK CHALLENGE WALL 88"	200202481
KB TILTED ROCK CHALLENGE WALL 80"	200202480
KB TILTED ROCK CHALLENGE WALL 72"	200202479
KB TILTED ROCK CHALLENGE WALL 64"	200202478
KB TILTED ROCK CHALLENGE WALL 56"	200202477
KB TILTED ROCK CHALLENGE WALL 48"	200202476
KB TILTED ROCK CHALLENGE WALL 40"	200202475



AUTHORIZED BY: 12DEC11
Eric L. Cloudus



Item	Code	Description	Qty.
1A	-	TILTED ROCK CHALLENGE 96"	1
1B	-	TILTED ROCK CHALLENGE 88"	
1C	-	TILTED ROCK CHALLENGE 80"	
1D	-	TILTED ROCK CHALLENGE 72"	
1E	-	TILTED ROCK CHALLENGE 64"	
1F	-	TILTED ROCK CHALLENGE 56"	
1G	-	TILTED ROCK CHALLENGE 48"	
1H	-	TILTED ROCK CHALLENGE 40"	
2A	-	TILTED ROCK CHALL FOOT SM305	
2B	-	TILTED ROCK CHALL FOOT SM40	
2C	-	TILTED ROCK CHALL FOOT ING	
3	-	SAFETY LOOP ASSEMBLY F/KB WITH 2 WING CLAMPS	1 SET

NU-EDGE ROCK CHALLENGE WALL 96"	200202820
NU-EDGE ROCK CHALLENGE WALL 88"	200202821
NU-EDGE ROCK CHALLENGE WALL 80"	200202822
NU-EDGE ROCK CHALLENGE WALL 72"	200202823
NU-EDGE ROCK CHALLENGE WALL 64"	200202824
NU-EDGE ROCK CHALLENGE WALL 56"	200202825
NU-EDGE ROCK CHALLENGE WALL 48"	200202826
NU-EDGE ROCK CHALLENGE WALL 40"	200202827

Item	Code	Description	Qty.
4A	-	ASSY KB 96" NU-EDGE ROCK CHALL	1
4B	-	ASSY KB 88" NU-EDGE ROCK CHALL	
4C	-	ASSY KB 80" NU-EDGE ROCK CHALL	
4D	-	ASSY KB 72" NU-EDGE ROCK CHALL	
4E	-	ASSY KB 64" NU-EDGE ROCK CHALL	
4F	-	ASSY KB 56" NU-EDGE ROCK CHALL	
4G	-	ASSY KB 48" NU-EDGE ROCK CHALL	
4H	-	ASSY KB 40" NU-EDGE ROCK CHALL	
2A	-	TILTED ROCK CHALL FOOT SM305	2
2B	-	TILTED ROCK CHALL FOOT SM40	
2C	-	TILTED ROCK CHALL FOOT ING	
3	-	SAFETY LOOP ASSEMBLY F/KB WITH 2 WING CLAMPS	1 SET

HDWR BAG F/TILTED ROCK CHAL 200194913

Item	Code	Description	Qty.
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	10
7	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
8	200002100	WASHER FLAT M11 32OD X 13ID X 2MM S.S.	4
9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6

Application

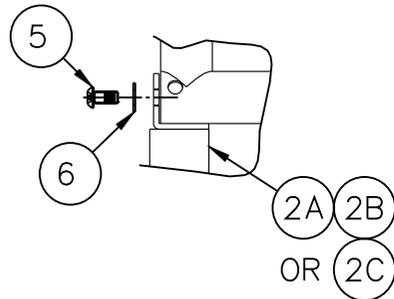
- Climbing event - cannot be used as sole access
- Never install climber without safety loops

Installation Instructions

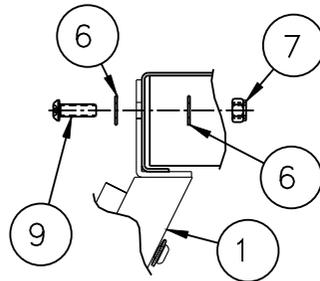
1. Prepare footings.
2. Loosely assemble clamps (refer to front of manual for clamp installation details).
3. Loosely attach loops to the deck as shown in SECTION C-C and to the clamps/post as shown in SECTION D-D
4. Attach feet to climber as shown in SECTION A-A.
5. Attach climber to deck as shown in SECTION B-B.
6. Tighten all hardware and install clamp drive pins.
7. Complete footings and install resilient surfacing.

FOOTING CHART

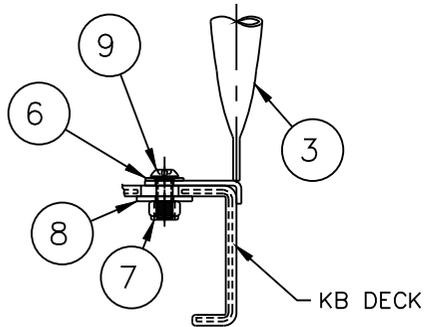
Y	X	Description
2440 (96")	715 (28")	TILTED ROCK CHALLENGE 96"
2235 (88")	431 (17")	TILTED ROCK CHALLENGE 88"
2030 (80")	537.5 (21")	TILTED ROCK CHALLENGE 80"
1830 (72")	614 (24")	TILTED ROCK CHALLENGE 72"
1630 (64")	532 (21")	TILTED ROCK CHALLENGE 64"
1425 (56")	629 (25")	TILTED ROCK CHALLENGE 56"
1220 (48")	735 (29")	TILTED ROCK CHALLENGE 48"
1016 (40")	855 (34")	TILTED ROCK CHALLENGE 40"



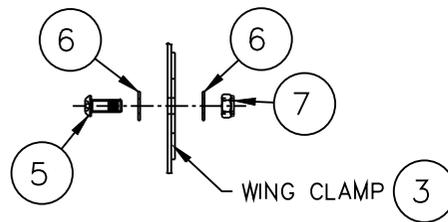
SECTION A-A
1:5
TYP 2 PLACES



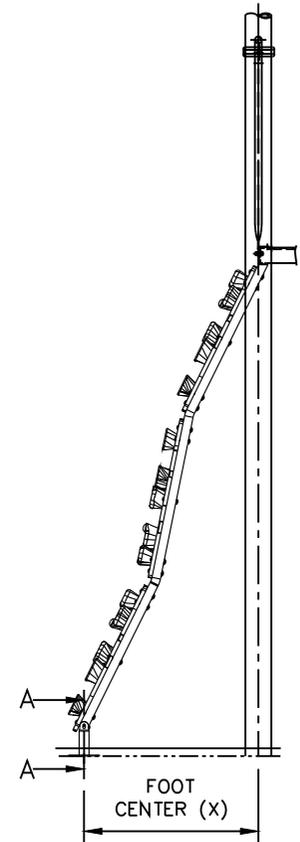
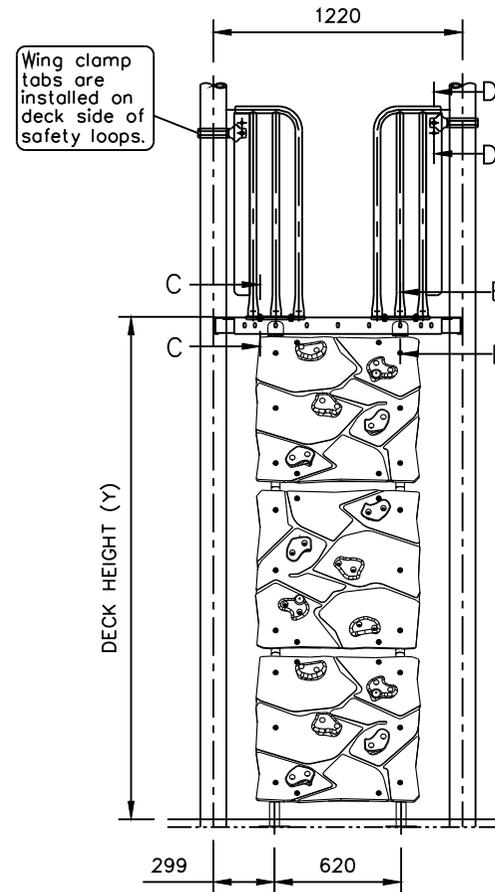
SECTION B-B
1:5



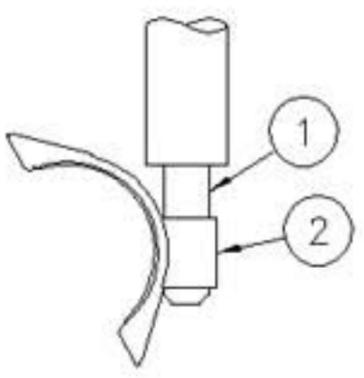
SECTION C-C
1:5
TYP 4 PLACES



SECTION D-D
1:5
TYP 2 PLACES

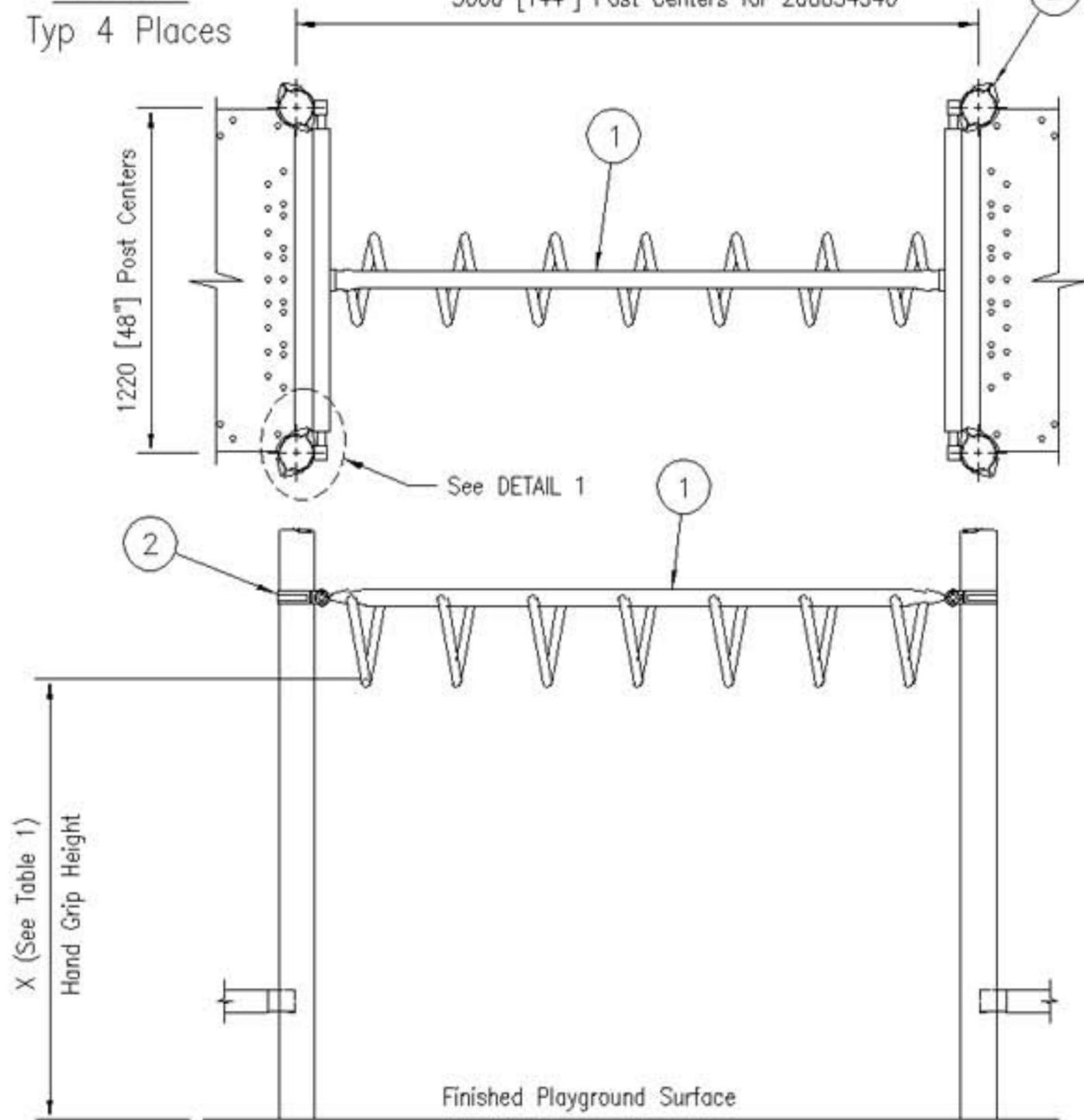


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



DETAIL 1
Typ 4 Places

2440 [96"] Post Centers for 200034344
3660 [144"] Post Centers for 200034346



2440mm Ring Challenge Ladder Shown

LADDER RING CHALLENGE F/KB 2440 [96"]
200034344

LADDER RING CHALLENGE F/KB 3660 [144"]
200034346

AUTHORIZED BY:
Chris M. [Signature] 20JUN07

Item	Code	Description	Qty.
1A	-	WELDED RING TREK F/KB 2440	1
1B	-	WELDED RING TREK F/KB 3660	1
2	-	RAIL CLAMP - W/WEDGE/30 DEG. ATTACH.	4

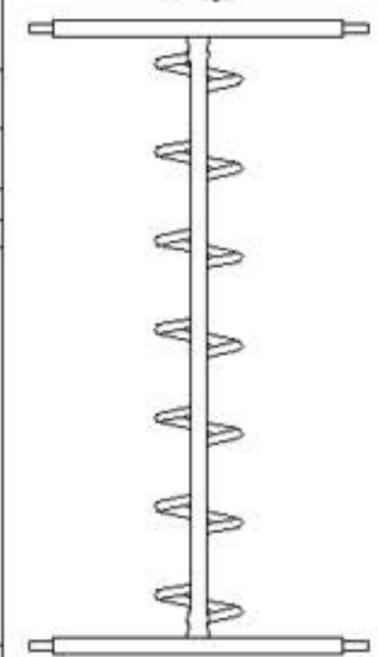
Application
- For ages 2-5 or 5-12.

Installation Instructions

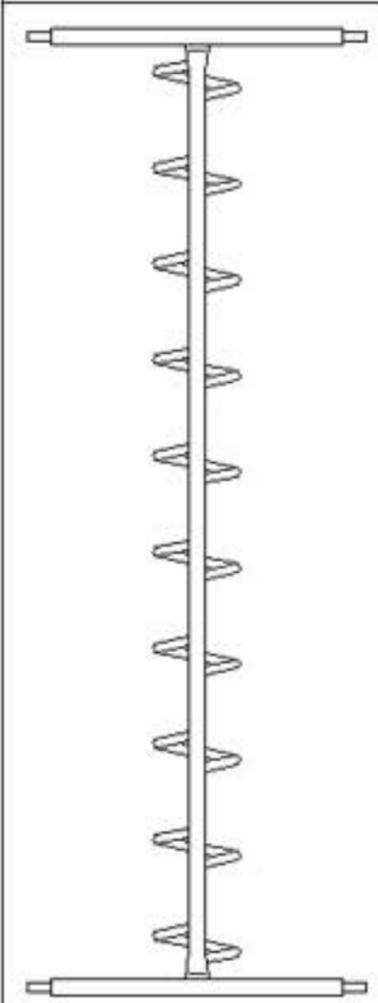
1. Prepare footings.
2. Install posts.
3. Slide four wedge clamps onto the Challenge Ladder stubs (Refer to Detail 1).
4. Position Challenge Ladder at proper height and attach wedge clamps to posts (refer to front of manual for clamp installation detail).
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.

TABLE 1

Age Group	X (Hand Grip Height)
2-5 Years	1524mm [60"]
5-12 Years	1981mm [78"]



1A



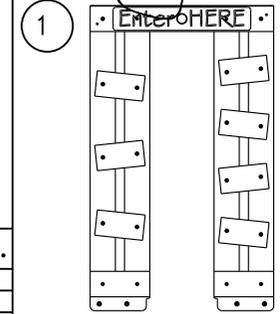
1B

AUTHORIZED BY:

Chris M. Anderson

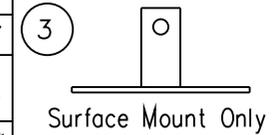
18AUG11

RECYCLED TREEHOUSE SNAKE POLE 36" F/KB 200202452
RECYCLED TREEHOUSE SNAKE POLE 48" F/KB 200202453
RECYCLED TREEHOUSE SNAKE POLE 64" F/KB 200202454
RECYCLED TREEHOUSE SNAKE POLE 72" F/KB 200202459
RECYCLED TREEHOUSE SNAKE POLE 80" F/KB 200202460
RECYCLED TREEHOUSE SNAKE POLE 88" F/KB 200202461
RECYCLED TREEHOUSE SNAKE POLE 96" F/KB 200202462



Item	Code	Description	Qty.
1	-	PANEL TREE VERT CLIMB "ENTER HERE"	1
2	-	KB WING CLAMP ASSEMBLY	2
3	-	TUBE ANCHOR F/VERTICAL CLIMBERS *	1
4	-	SNAKE POLE	1

* FOR SURFACE MOUNT ONLY



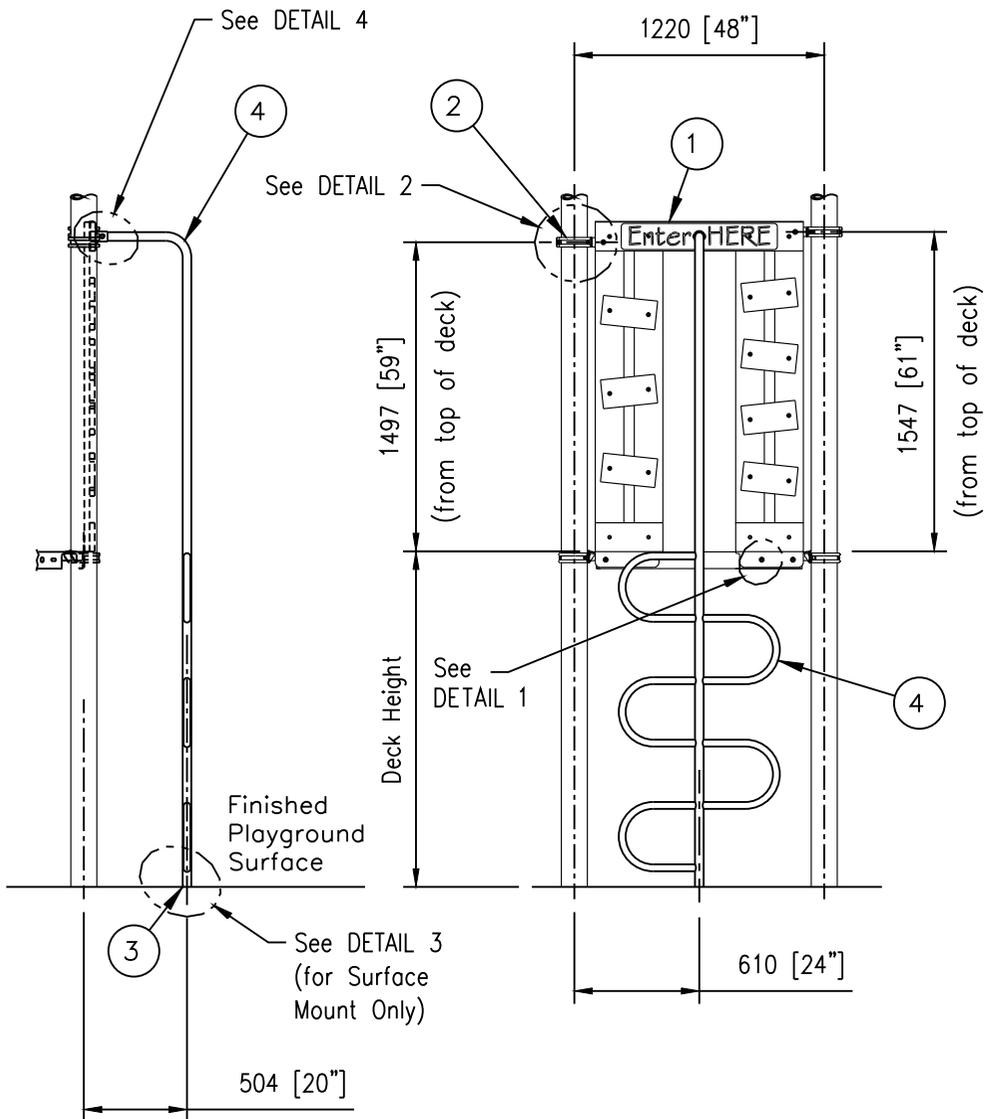
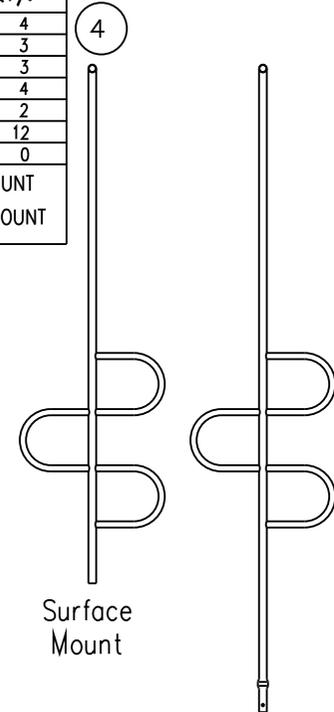
HDWR BAG F/TREEHOUSE CURLY/SNAKE CLIMB 200190205

Item	Code	Description	Qty.*	Qty.**
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4	4
6	200002138	BOLT M8 X 1.25 MALE 42.5 MM	3	3
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4	3
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4	4
9	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4	2
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12	12
11	200002133	BOLT M8 X 1.25 MALE 27.5 MM *	1	0

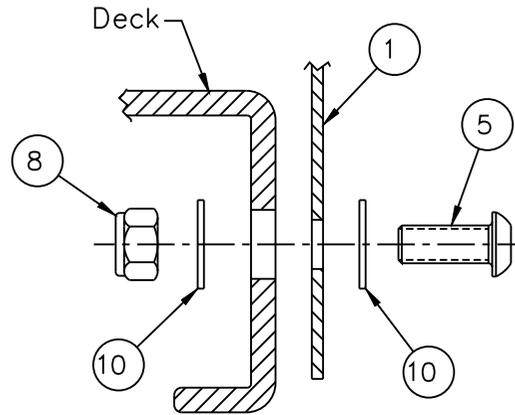
* FOR SURFACE MOUNT
** FOR INGROUND MOUNT

Installation Instructions

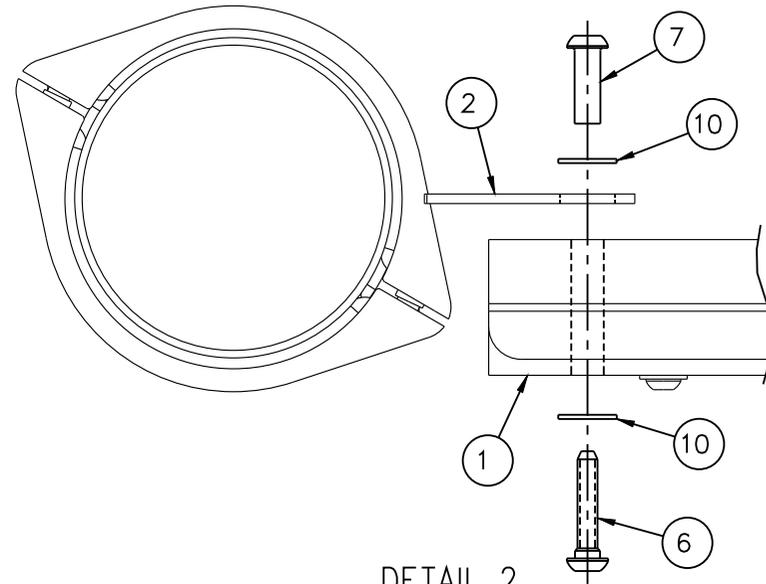
1. Prepare footing.
2. Loosely attach the clamps to the posts (refer to front of manual for clamp installation details).
3. Lift enclosure into place and loosely attach to deck edge (refer to DETAIL 1).
4. Loosely attach enclosure to clamps (refer to DETAIL 2).
5. For Surface Mount version, loosely attach tube anchor to climber (refer to DETAIL 3).
6. Lift climber into place and attach to enclosure (refer to DETAIL 4).
7. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.



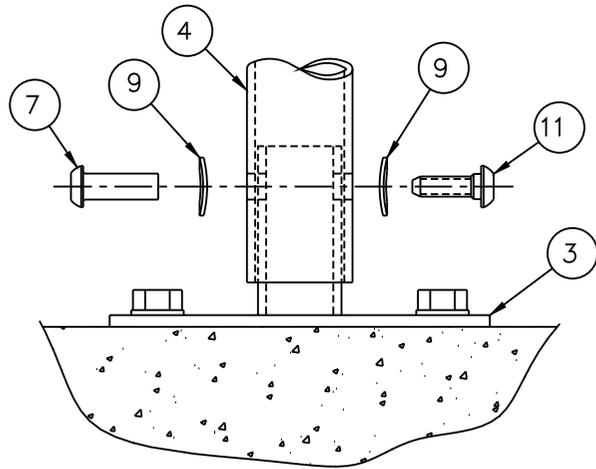
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



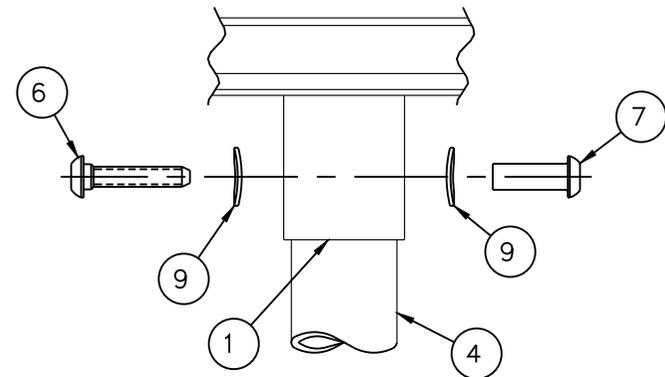
DETAIL 1
Typ 4 Places



DETAIL 2
Typ 2 Places



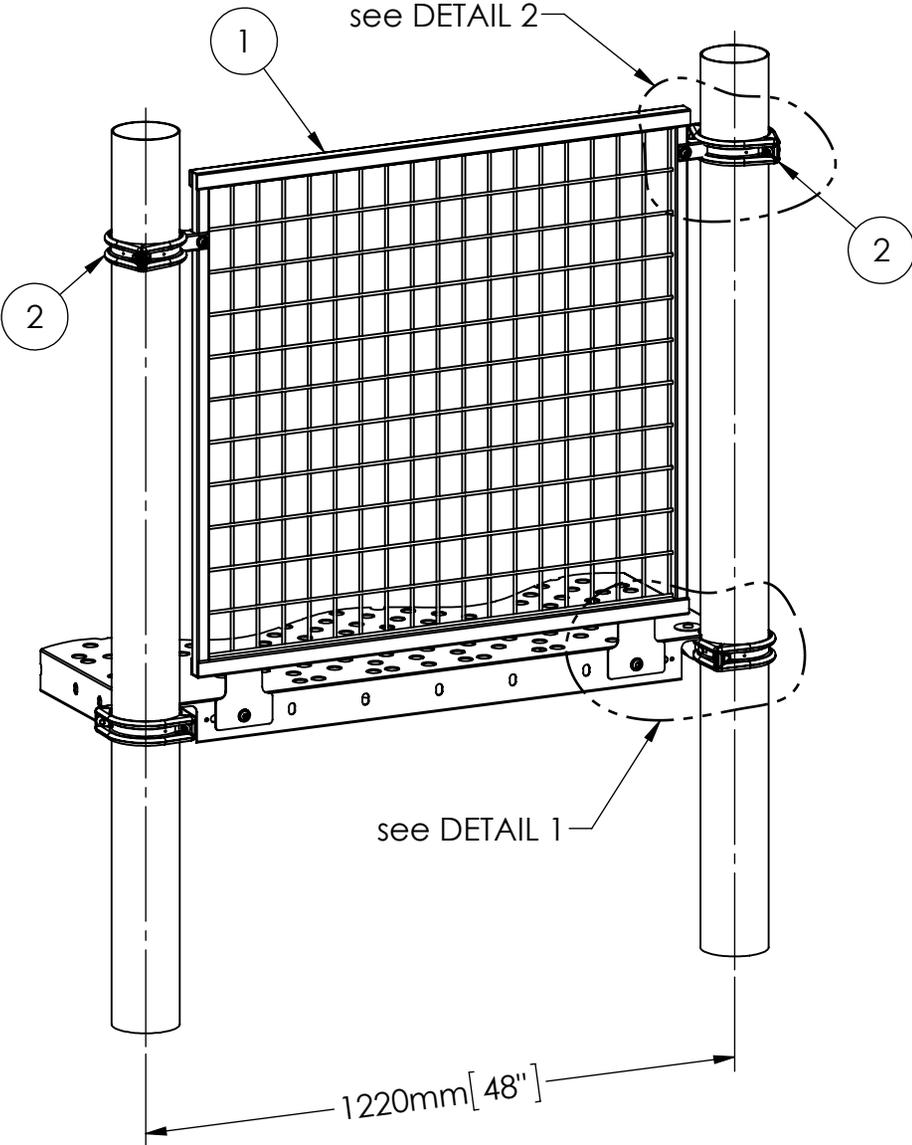
DETAIL 3
Surface Mount Only



DETAIL 4

INST F/KB WIRE MESH PANEL

200313374
 KB600070A
 SHEET 1 OF 2
 AUTHORIZED BY: 03Dec14
Chris Newbury



KB WIRE MESH PANEL 200203377			
ITEM	PART #	DESCRIPTION	QTY
1	912317	PANEL WIRE MESH F/KB	1
2	...	KB SQUARE TUBE TAB CLAMP ASSEMBLY	2
HDWR F/KB WIRE MESH PANEL HW911799-1			
3	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	2
4	200002133	BOLT M8 X 1.25 MALE 27.5mm	2
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	2
6	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	8

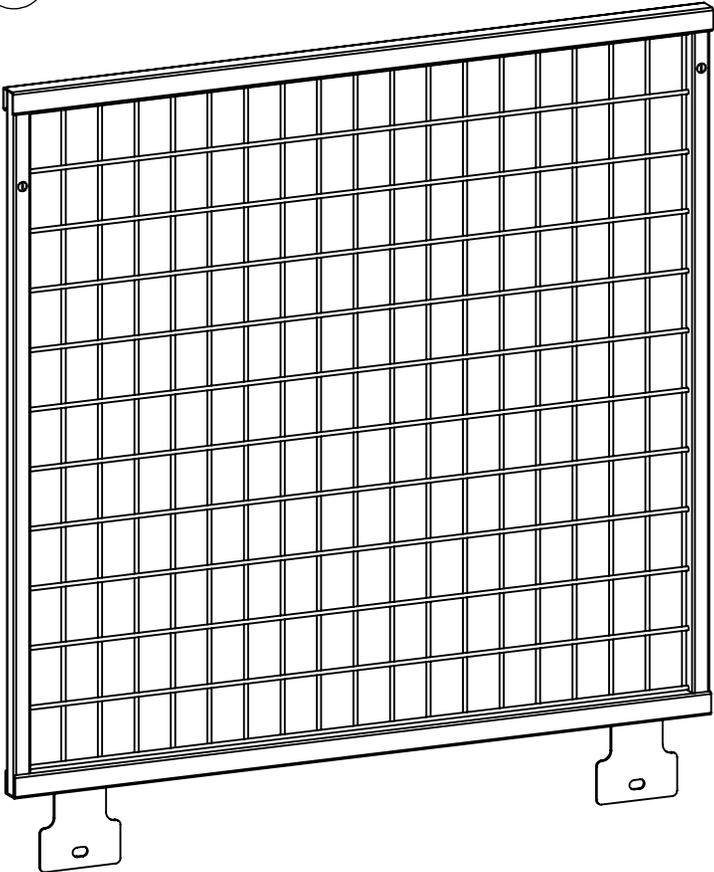
Installation Instructions

1. Loosely attach clamps to posts (refer to front of manual for additional clamp installation details).
2. Place Mesh Enclosure on deck as shown in main view on sheet 1. Attach bottom plate to deck as shown in DETAIL 1 and to clamps as shown in DETAIL 2. Note: Small tab in clamp is designed to be bent out as necessary for panel installation.
3. Tighten all hardware, and install clamp hammer drive pins.

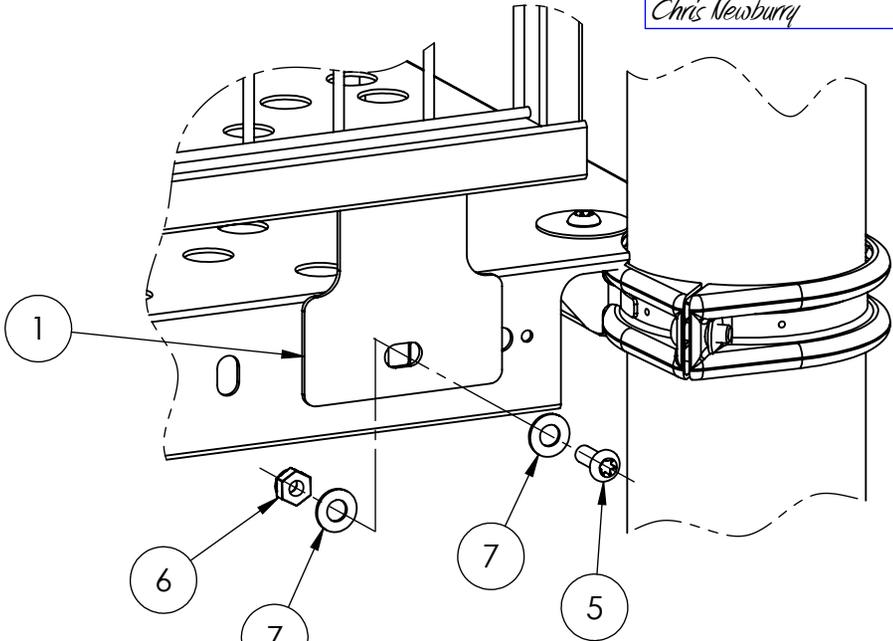
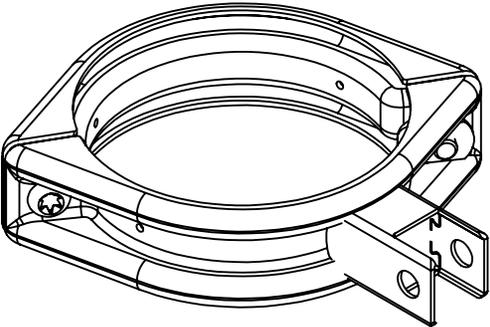
INST F/KB WIRE MESH PANEL

200313374
KB600070A
SHEET 2 OF 2
AUTHORIZED BY: 03Dec14
Chris Newbury

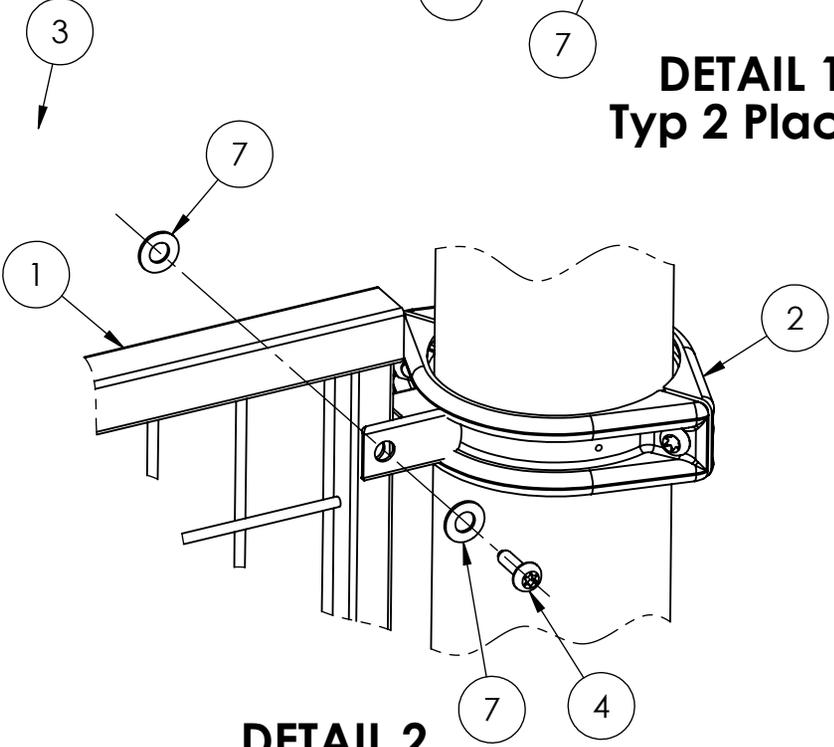
1



2



**DETAIL 1
Typ 2 Places**

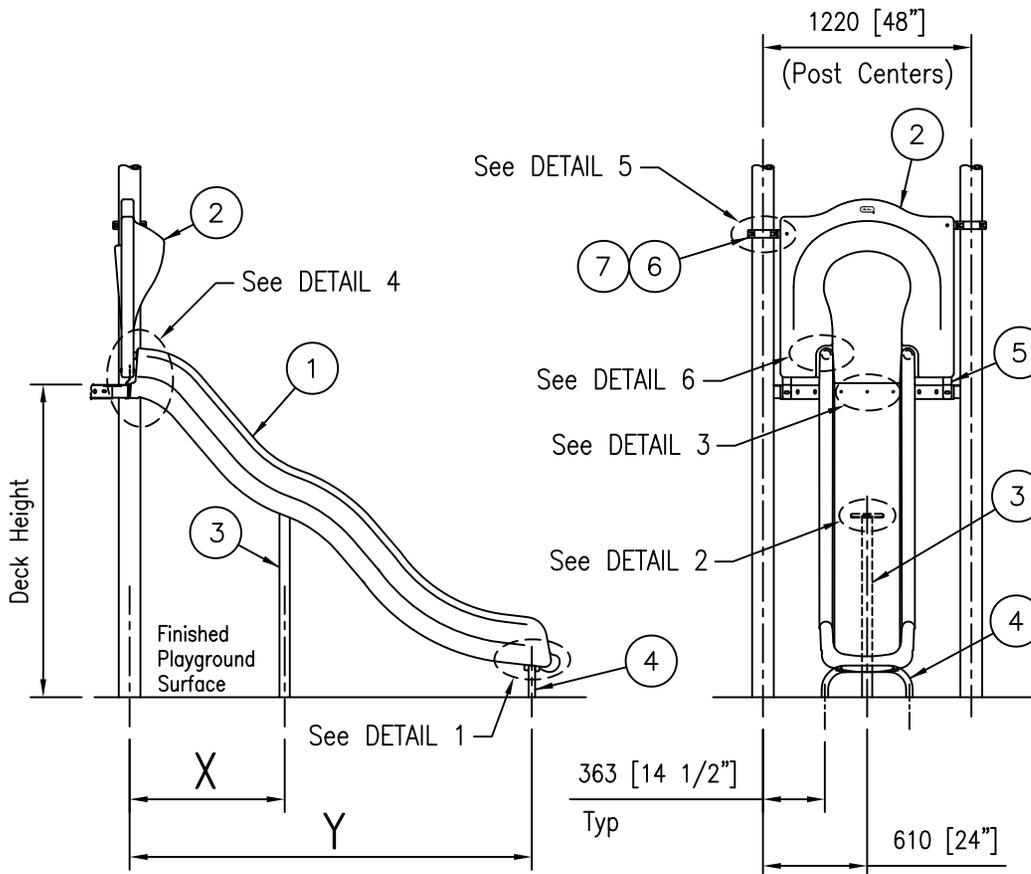


**DETAIL 2
Typ 2 Places**

FOOTING DIMENSIONS

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

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



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

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

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

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

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

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

Application

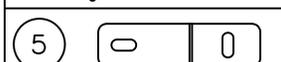
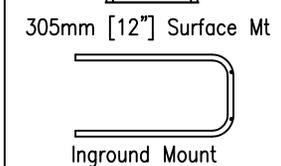
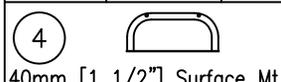
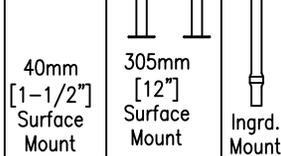
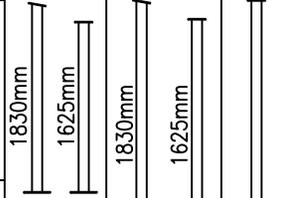
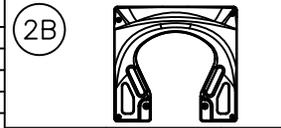
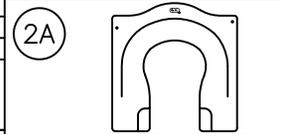
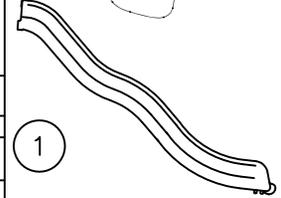
- Age groups: (2-5 year olds) & (5-12 year olds).
- For slides with an elevation greater than 1220 [48"], exit region should be between 180-380 [7"-15"].
- Runout slope must be between 0 and -4 degrees.

Installation Instructions

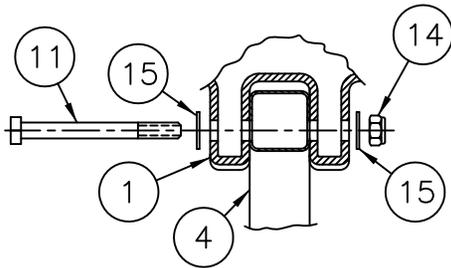
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1. Attach the mid support to the slide in the location as shown in DETAIL 2.
3. Place the supports in the footings and attach the Slide to the deck edge as shown in DETAIL 3. If Surface Mounting, anchor the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

AUTHORIZED BY: 12DEC14

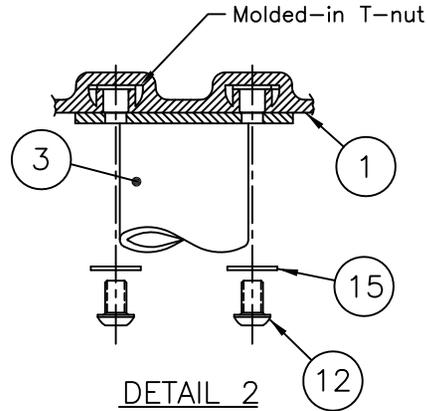
Chris M. Newberry



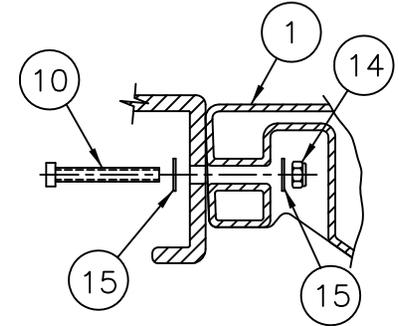
Chris M. Mackay



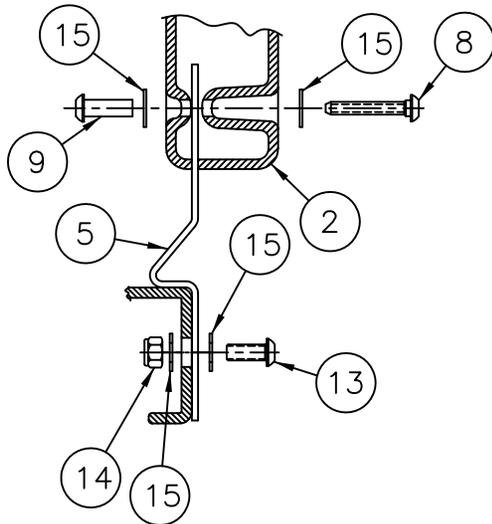
DETAIL 1
Typ 2 Places



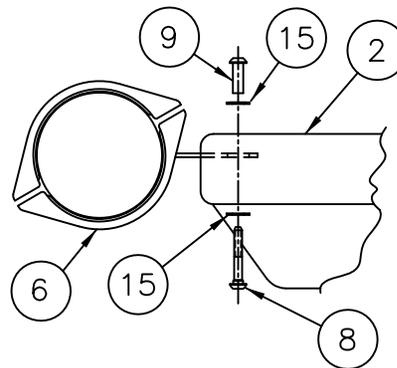
DETAIL 2
Typ 2 Places



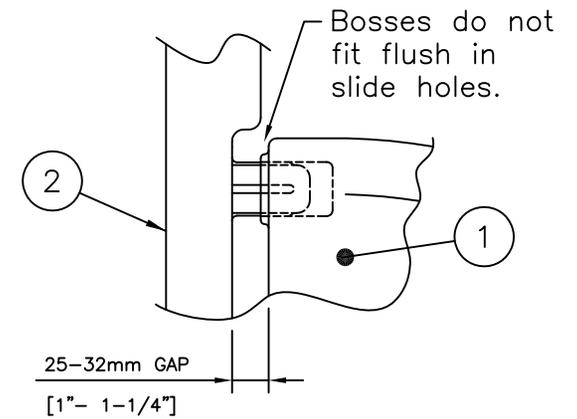
DETAIL 3
Typ 3 Places



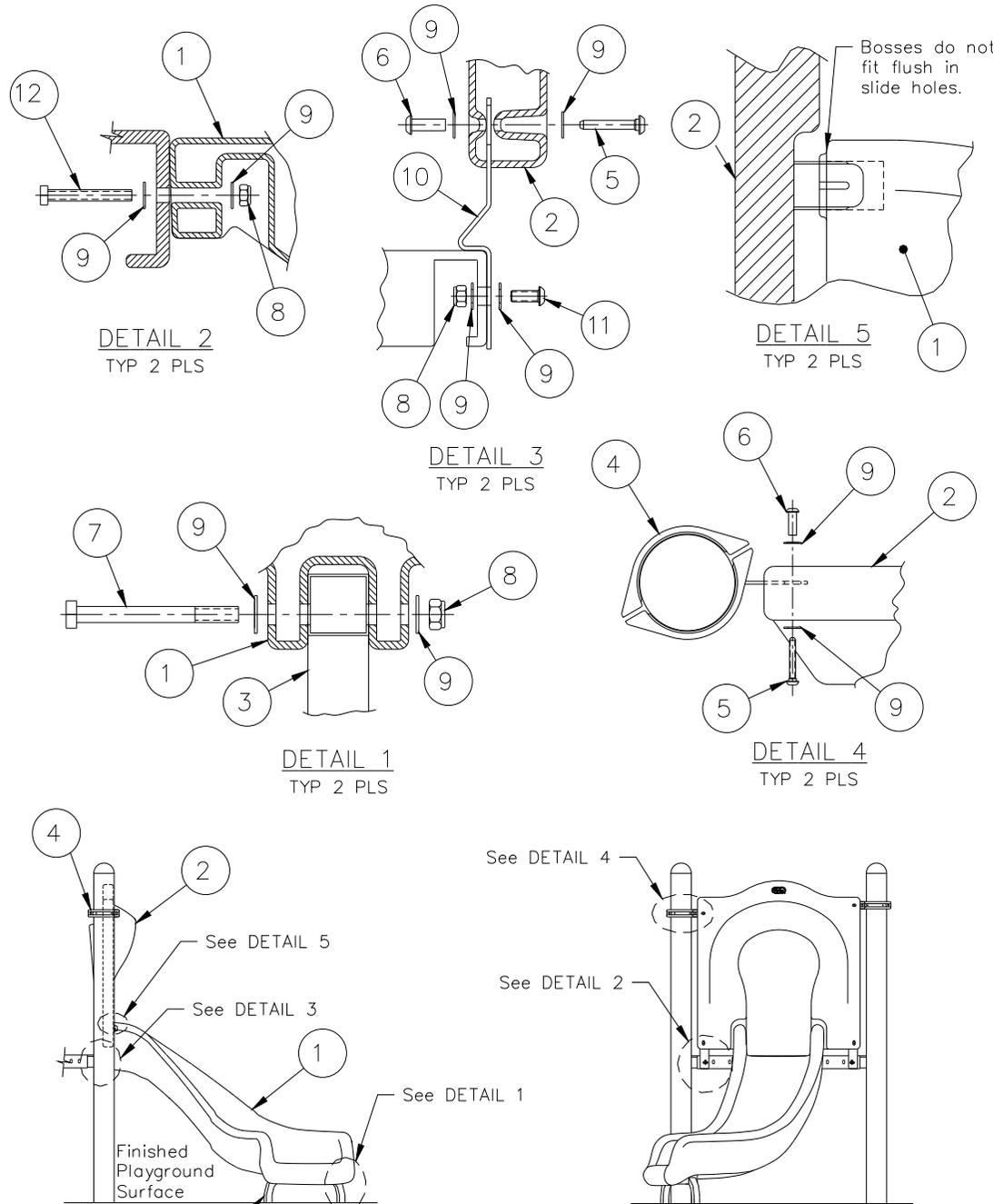
DETAIL 4
Typ 2 Places



DETAIL 5
Typ 2 Places



DETAIL 6
Typ 2 Places



NOTE: FOOTING LAYOUT ON SHEET 2

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

SLIDE ELBOW 70 DEGREE KB 200006978

Item	Code	Description	Qty.
1	-	70° ELBOW SLIDE	1
2	-	HOOD F/ KB SGL. WD. WAVE SLIDE	1
3	-	SUPP. END SGL. WD. WAVE SLIDE	1
4	-	KB PANEL CLAMP	2
10	200000482	TAB BRN F/KB PANEL MOUNTING	2

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

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

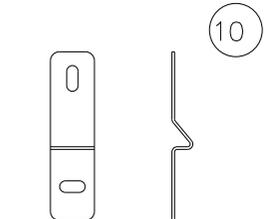
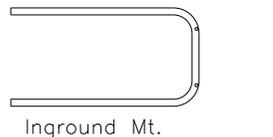
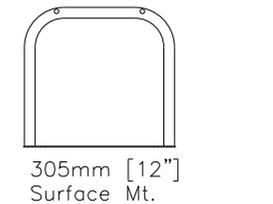
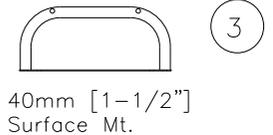
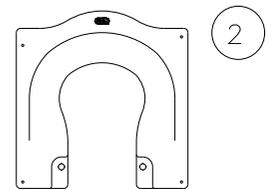
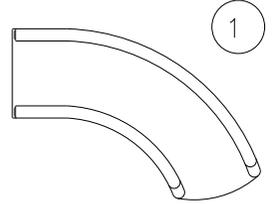
Application

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

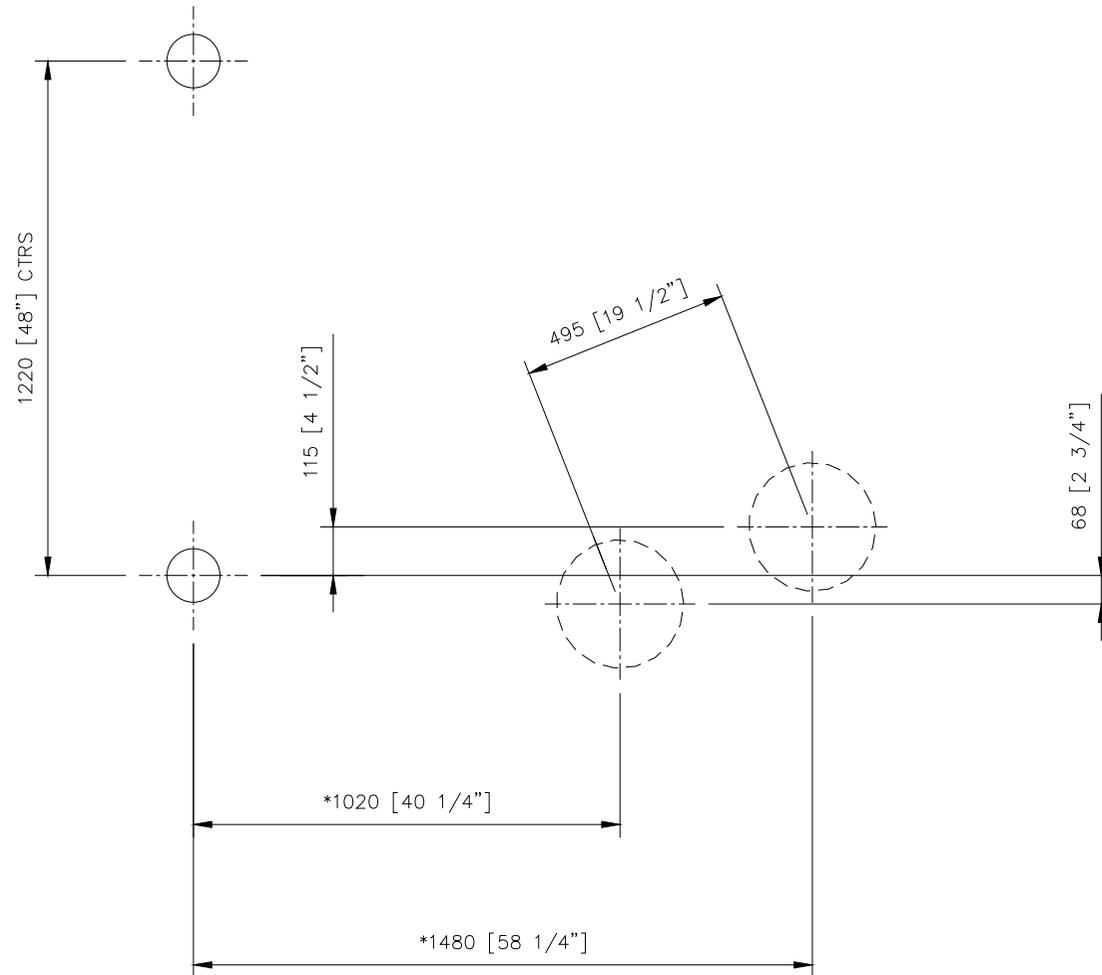
Installation Instructions

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

AUTHORIZED BY: 10JUN08
Joe Pritchett



Footing Layout



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

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

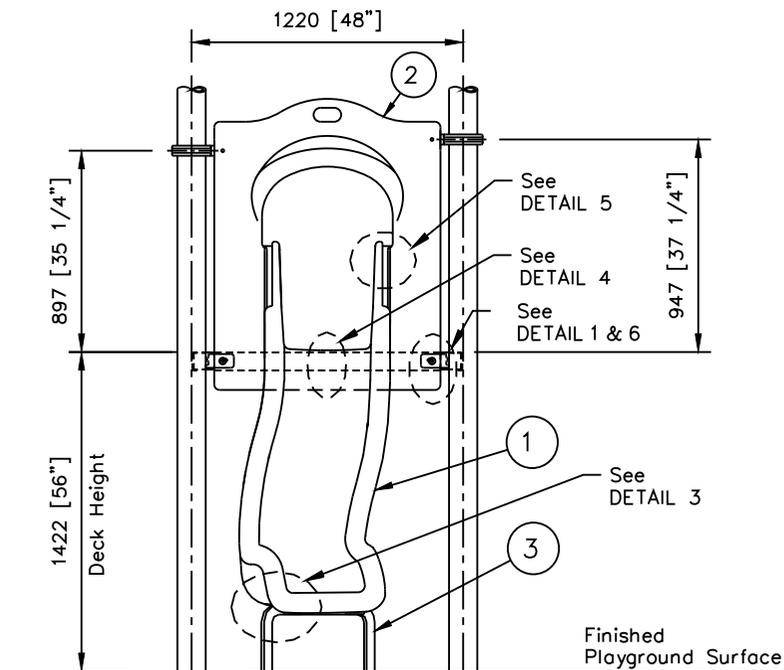
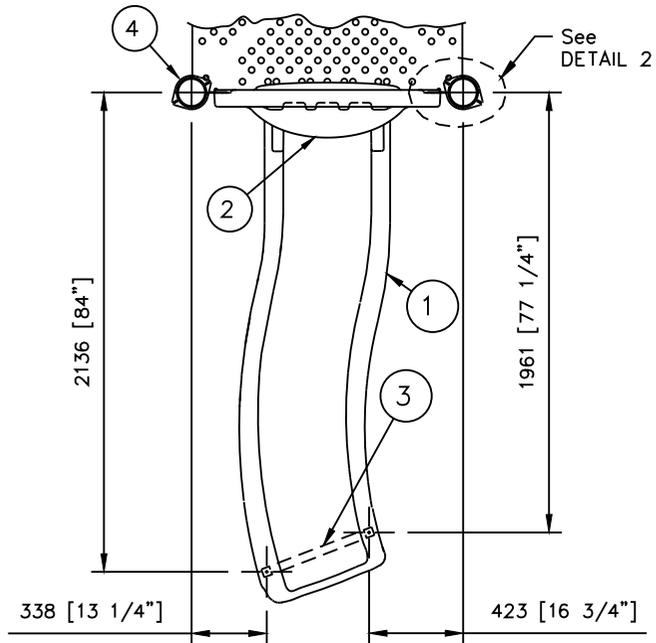
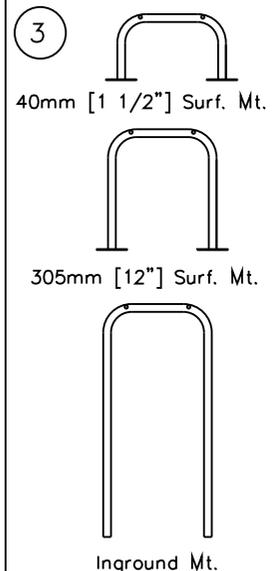
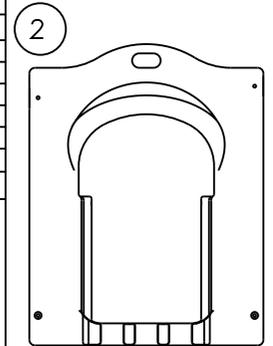
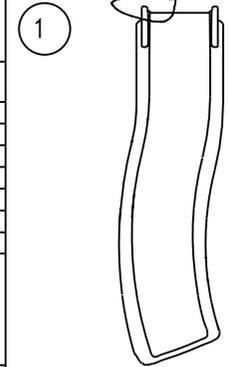
Chris M. Anderson

**KB 1422MM SGL. WAVE SLIDE
200200164**

Item	Code	Description	Qty.
1	-	KB SLIDE ELBOW 40° LEFT	1
2	-	HOOD SGL INTERLOCK KB	1
3	-	SUPP. END F/1016MM ELB SLD LFT	1
4	-	KB PANEL CLAMP ASSEMBLY	2
12	-	CAP HDWR BASE	2
13	-	CAP HDWR COVER	2
14	-	PLATE F/QUANTUM DECK	2

**HDWR BAG F/KB INTERLOCK HOOD/SLD
200142252**

Item	Code	Description	Qty.
5	200001826	CAP SCRW HEX HD M8 X 1.25 X 75MM W/PATCH	2
6	200001859	CAP SCREW HEX HEAD M10 X 1.50 X 75MM	3
7	200001875	CAP SCREW HEX HEAD M10 X 1.50 X 110MM	2
8	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	6
9	200002142	BOLT M8 X 1.25 MALE 57.5 MM	4
10	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	5
11	200002079	WASHER FLAT M11 23 X 12 X 1.6	22



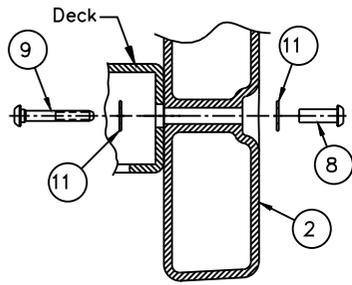
Application

- Recommended for age groups 2 TO 12
- A resilient ground covering is required under and around all play events
- Runout slope should be between 0 and -4 degrees
- Runout height should be between 180mm and 380mm [7"-15"]
- Deck height should be between 1422mm and 1270mm [56"-50"]

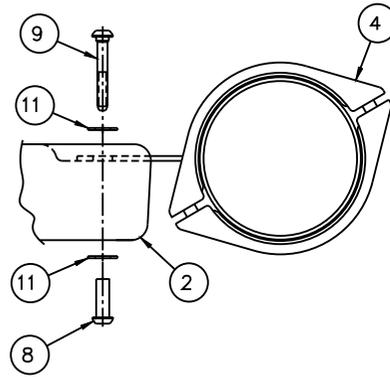
Installation Instructions

1. Prepare footings.
2. Loosely attach the slide hood (item 2) to the deck edge as shown in detail 1, while placing plates on the deck edge as shown in detail 6.
3. Loosely assemble panel clamps to existing posts and to the slide hood as shown in detail 2.
4. Attach the end support (item 3) to the under side of the slide (item 1) as shown in detail 3.
5. Place the end support in the footing. Move the upper end of the slide into the front panel. Lower the slide into place. Loosely attach the slide to the deck edge as shown in detail 4.
6. Fasten the slide to the front panel as shown in detail 5, making sure that the entry point of the slide is at the same level as the deck surface.
7. Tighten all hardware and install hammer drive pins.
8. Prior to completing footings, verify slide runout has a slope between 0 and -4 degrees. Raise or lower the footing until this is achieved.
9. Complete footings and install resilient surfacing.

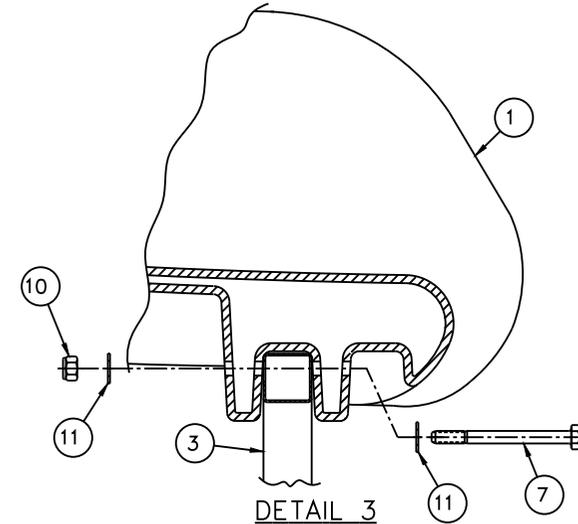
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



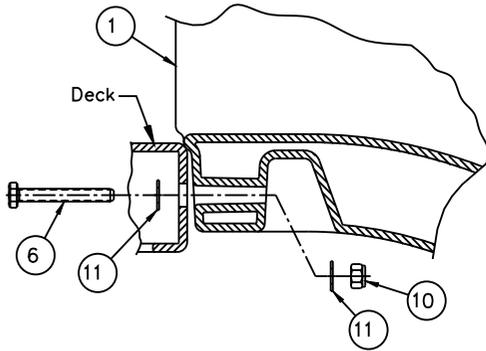
DETAIL 1
Typ 2 Places



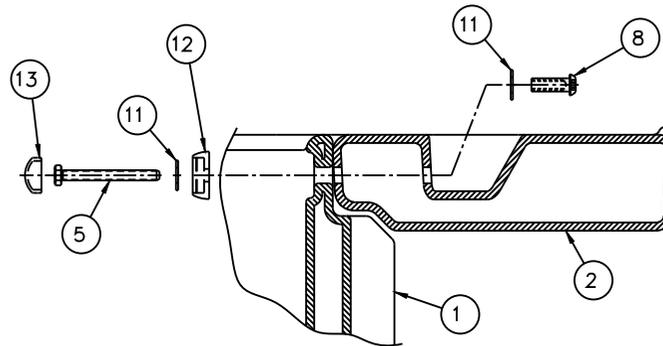
DETAIL 2
Typ 2 Places



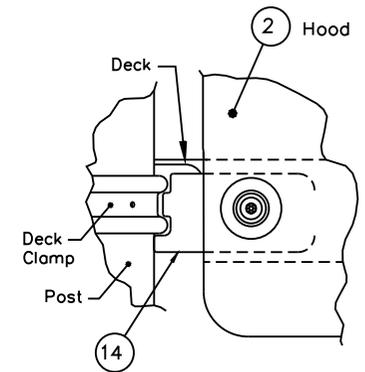
DETAIL 3
Typ 2 Places



DETAIL 4
Typ 3 Places

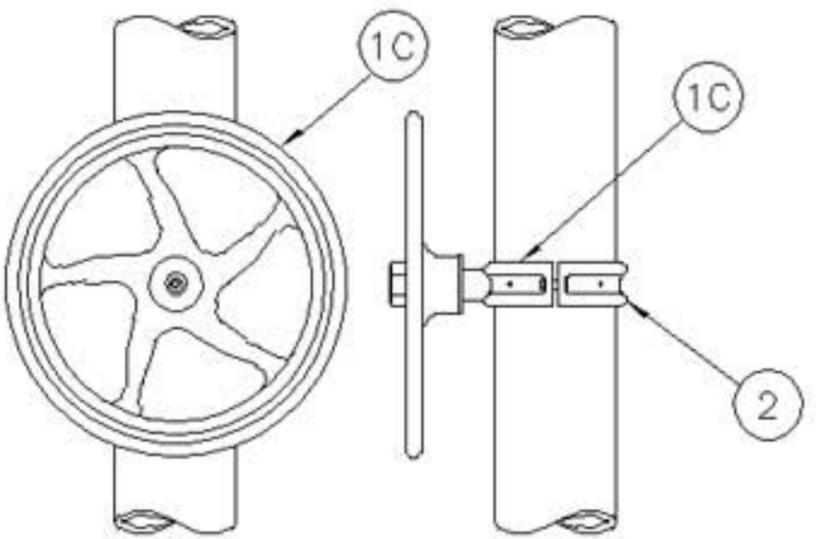


DETAIL 5
Typ 2 Places

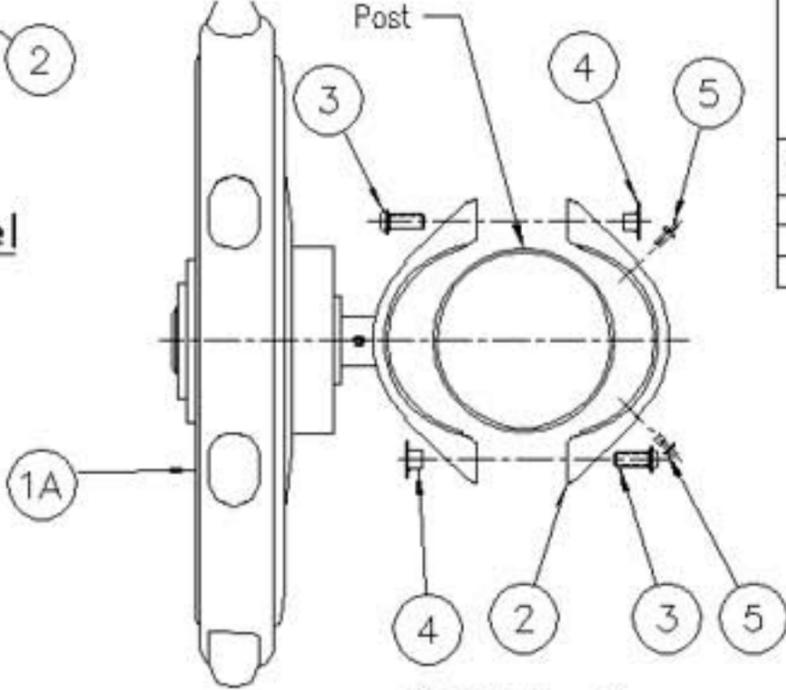


DETAIL 6
Typ 2 Places

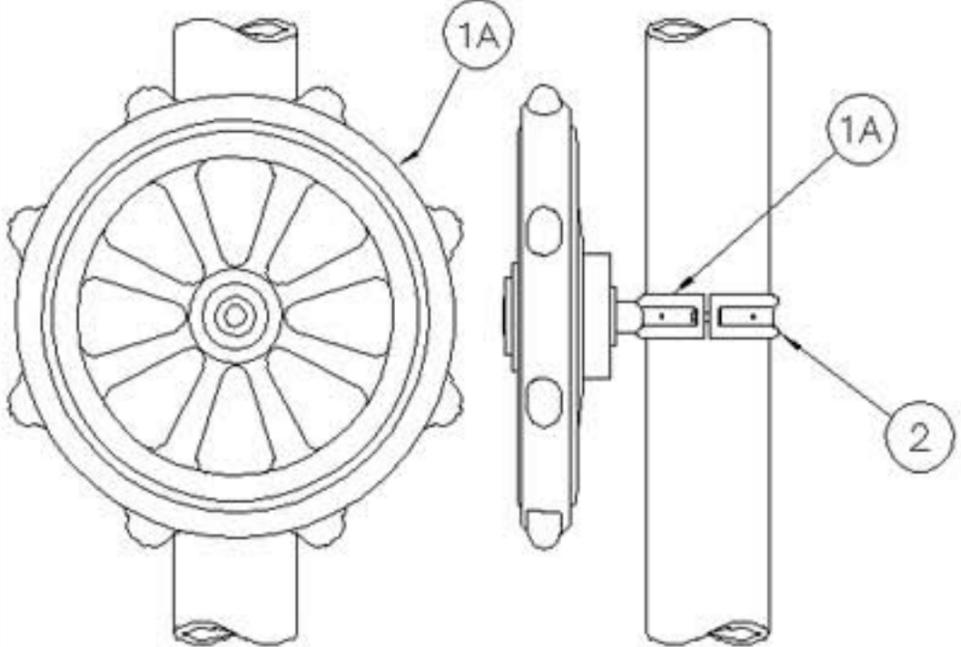
AUTHORIZED BY: 16JUN08
Shawn Slickard



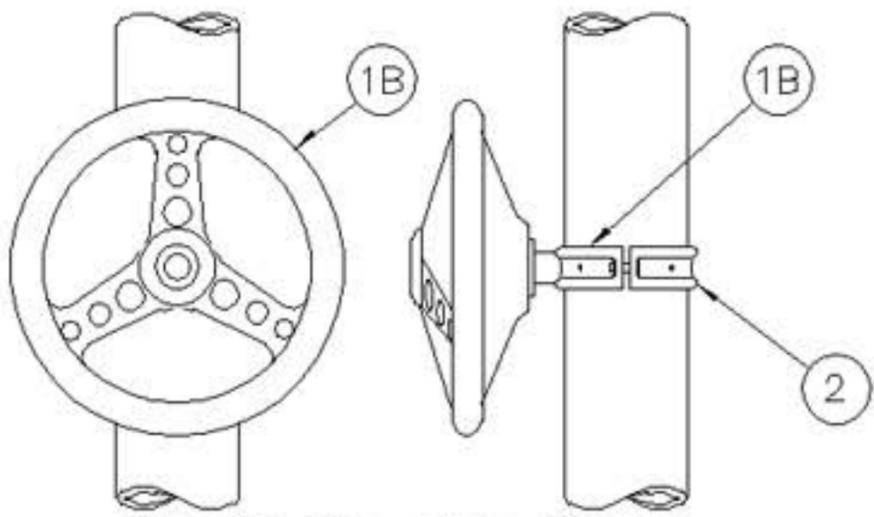
Aluminum Steering Wheel



DETAIL 1
(Ship Wheel Shown)



Ship Steering Wheel



Plastic Steering Wheel

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

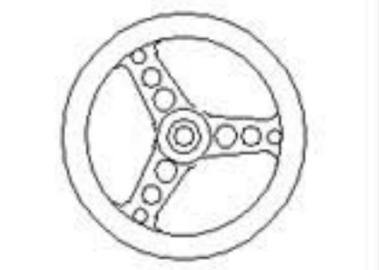
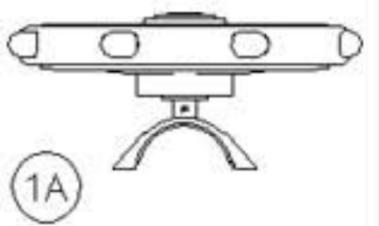
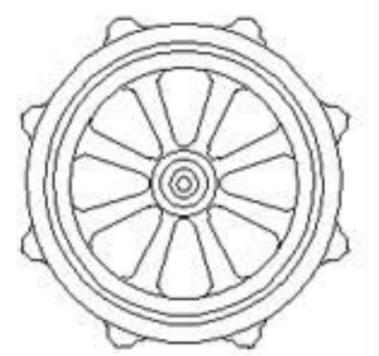
Item	Code	Description	Qty.
1A	-	ASSY. POST MT. f/SHIP STEER WHEEL	1
1B	-	ASSY. POST MT. f/PL. STEER WHEEL	
1C	-	ASSY. POST MT. f/AL. STEER WHEEL	
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1

HDWR BAG F/POST MT. STEERING WHEELS
200145769

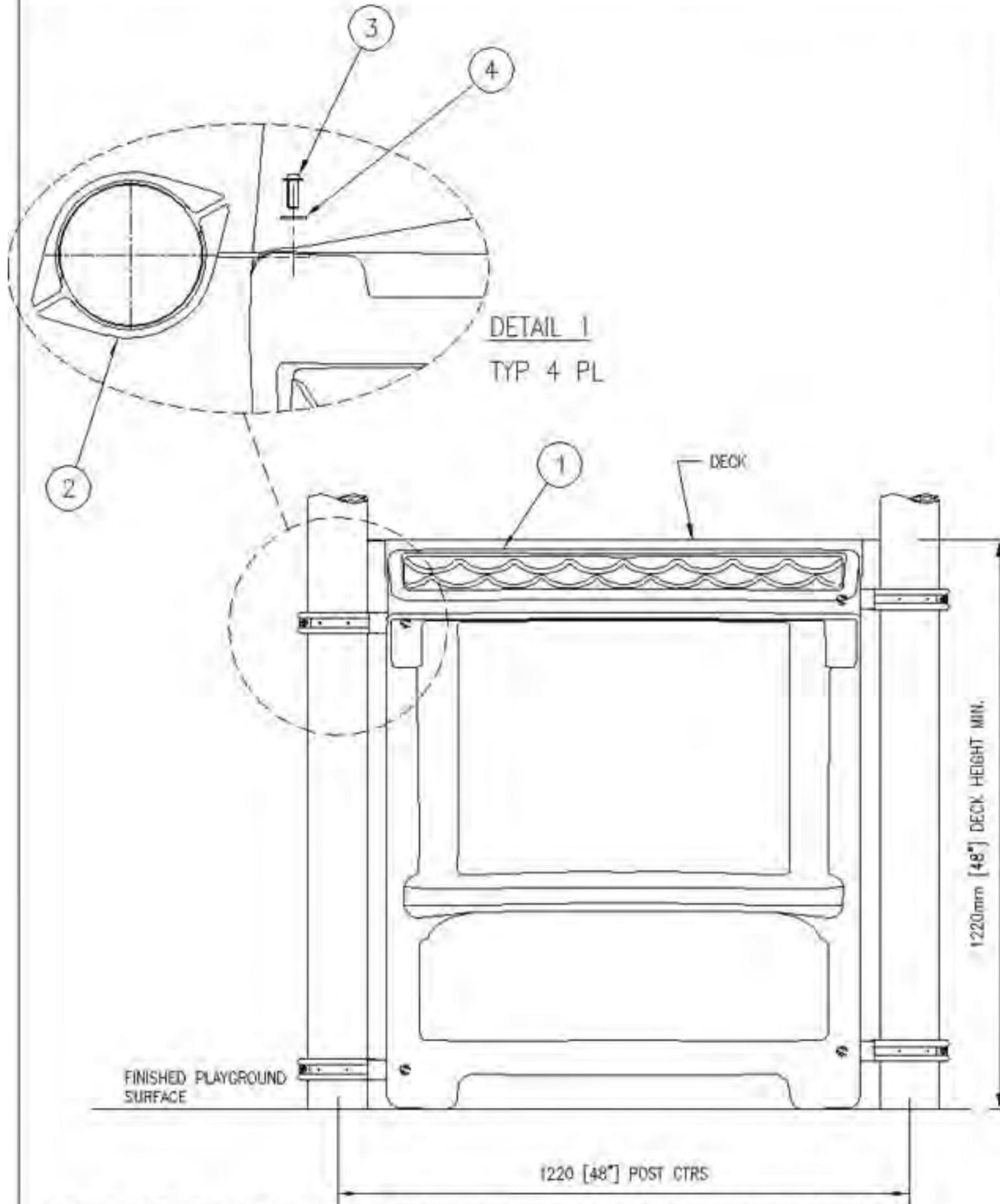
Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11mm	2

Installation Instructions

1. Loosely attach clamp half (item 2) and Assy. Post Mt. f/Steer Wheel (item 1) to post. (Refer to front of manual for clamp installation detail.)
2. Position at correct height and orientation, then tighten hardware.



AUTHORIZED BY: 17JUN08
Shawn Slinkard



POLYETHYLENE COUNTER PANEL 200007096

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

HDWR BAG SS F/KB DOOR/COUNTER PANELS 200007591

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

Application AGE GROUPS (2-12 YEAR OLDS)
 -Below deck: use only
 -Cannot be used as an enclosure
 -Can only be mounted below a 1220 mm[48"] deck or below a 1525mm[60"] or higher deck
 -Avoid entrapment areas between deck and top of panel

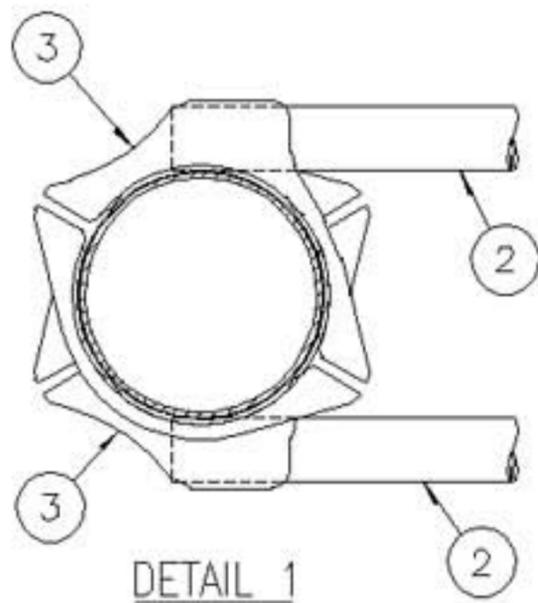
Installation Instructions

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

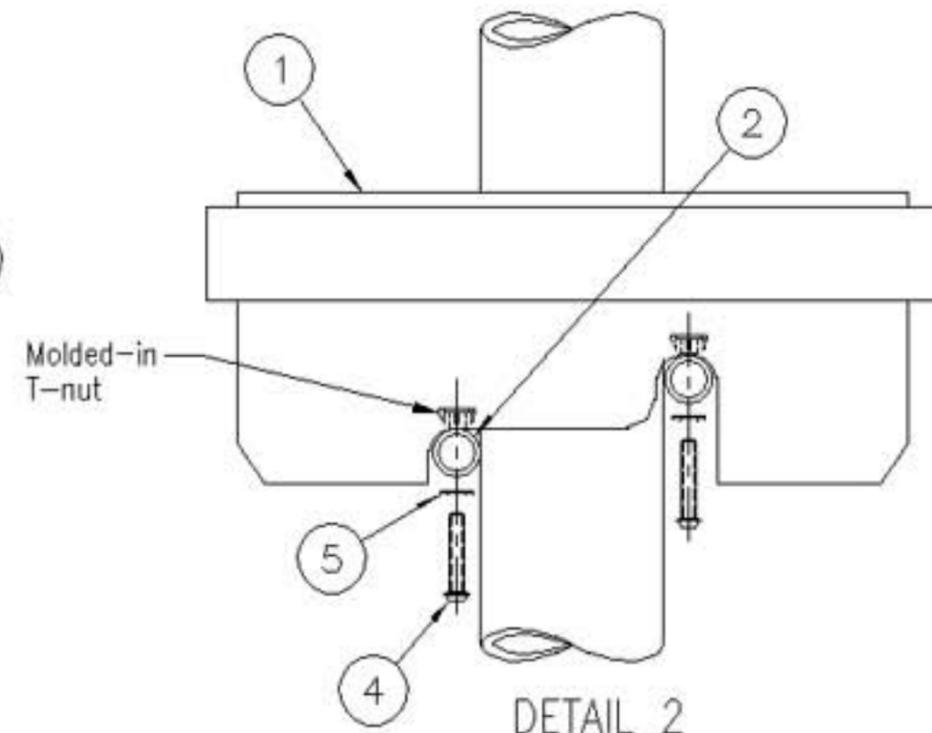


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

AUTHORIZED BY: 17JUN08
Shawn Siskard



DETAIL 1
Typ 2 Places



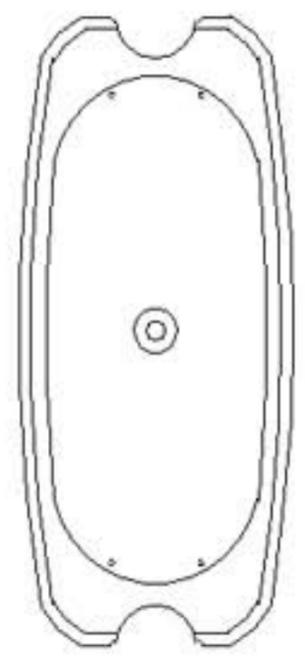
DETAIL 2
Typ 2 Places
(Near post and clamps removed for clarity)

**PANEL ADJUSTABLE COUNTER KB
200007097**

Item	Code	Description	Qty.
1	-	PANEL ADJUSTABLE COUNTER F/KB	1
2	200000971	RAIL SUPP. F/KB ADJ. COUNTER BRN	2
3	-	HOODED RAIL CLAMP	4

**HDWR BAG F/KB ADJ. COUNTER PANEL
200007593**

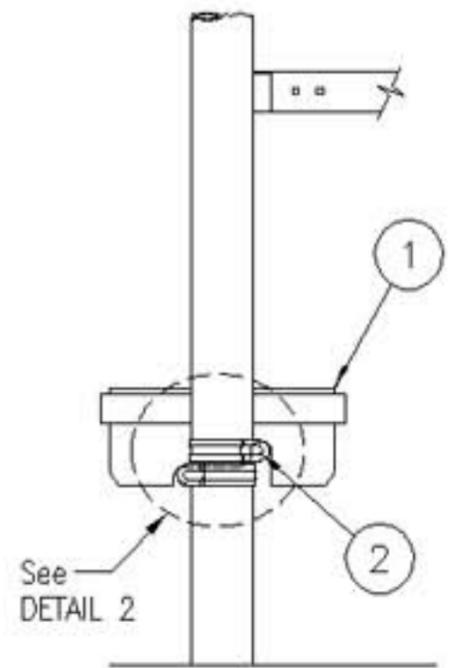
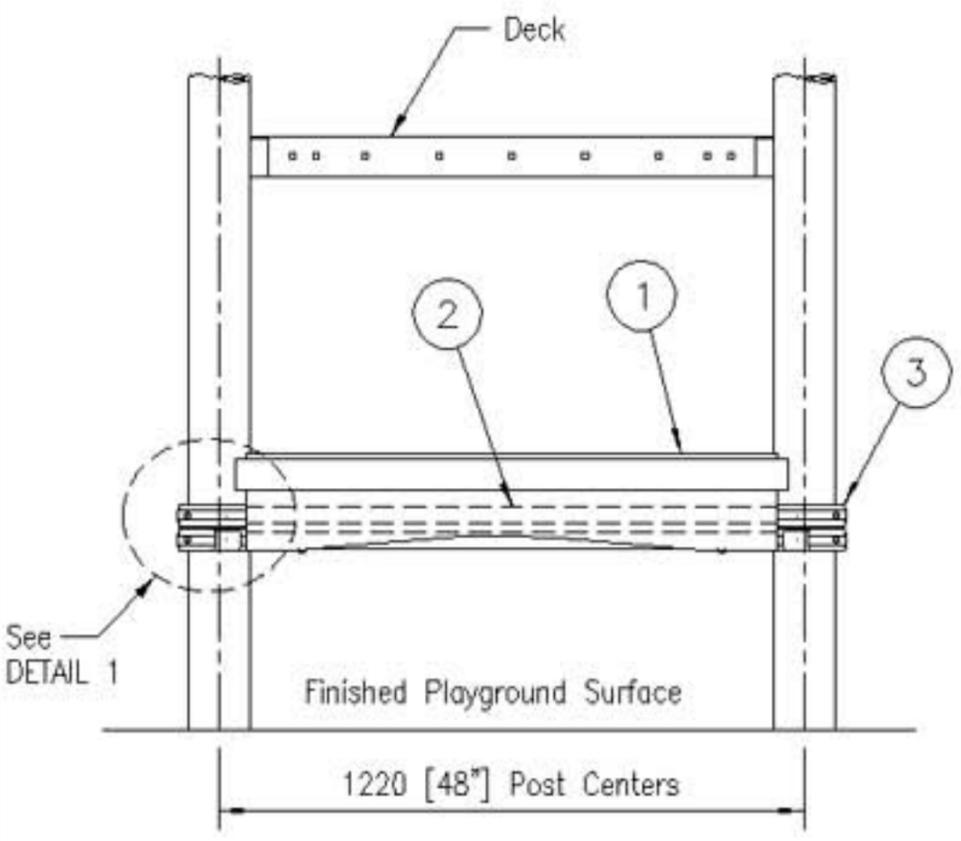
Item	Code	Description	Qty.
4	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	4
5	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4



1

- Application**
- Age groups: 2 - 12 year olds
 - For Kid Builders structures only
 - For below deck use only
 - Cannot be used as an enclosure

- Installation Instructions**
1. Insert the ends of both rails into the hooded clamp halves and loosely attach clamps to posts (refer to DETAIL 1 and to front of manual for clamp installation detail). One clamp will be stacked on top of the other.
 2. Lower the adjustable counter panel onto the rails and attach with hardware (refer to DETAIL 2). Some fine adjustment may be required for a snug fit.
 3. Position at proper height, tighten all hardware and install clamp drive pins.

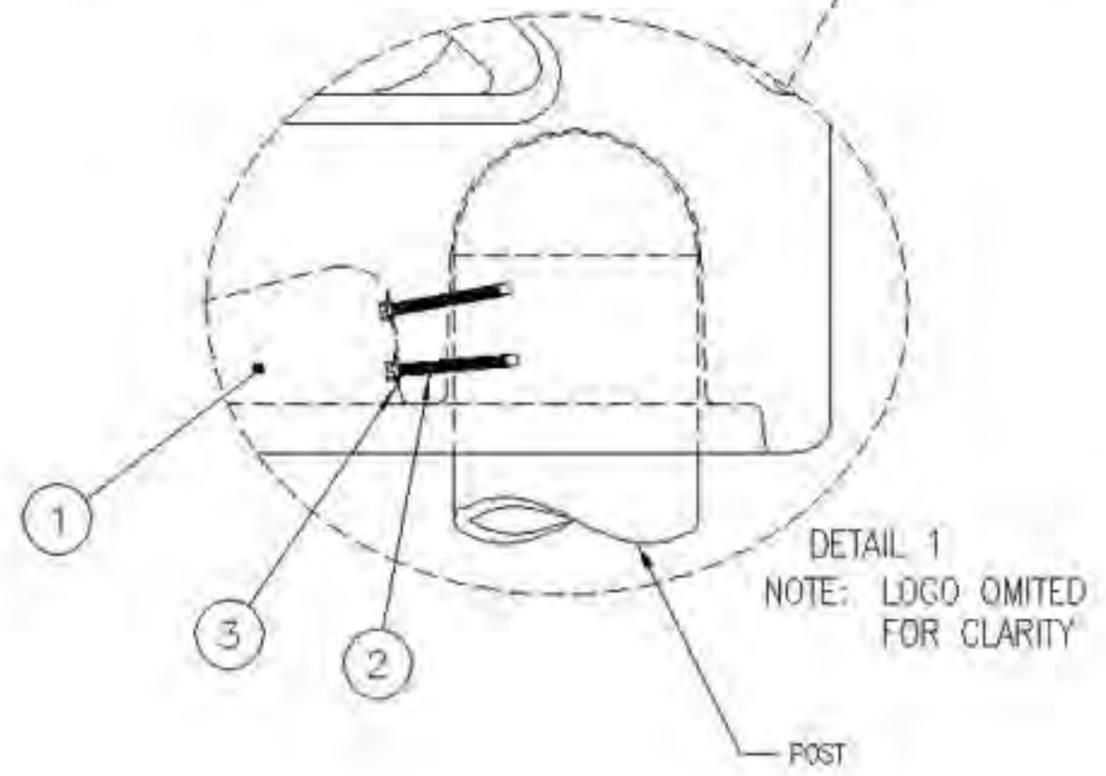
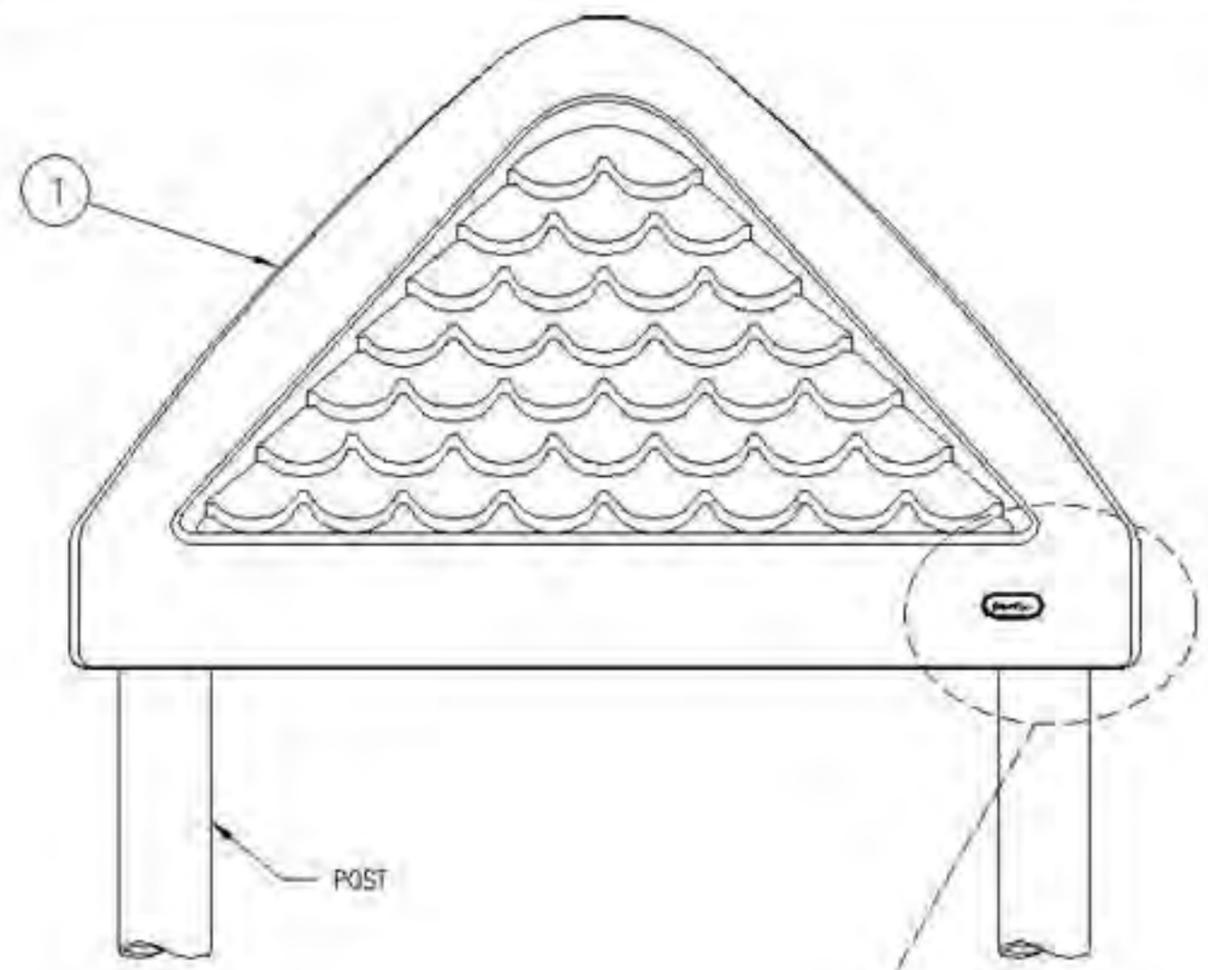


2



SQUARE ROOF
200007137

AUTHORIZED BY
Chris M. [Signature] 47JAND1



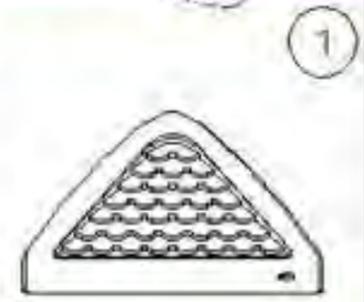
Item	Code	Description	Qty.
1	-	ROOF F/KB	1
2	200002002	SCREW DRILL HEX HEAD M6.3 X 1.81 X 65mm	8
3	200002057	WASHER FLAT M6 17.5 X 7.5 1.5mm	8

Application AGE GROUPS (2-12 YEAR OLDS)

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

Installation Instructions

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





Project Number: R0324200243

PlayArea: RiskSign_Included | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 3/23/2020 12:00:00 AM

Risk Management Sign

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

Models included in this installation guide:

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



Note:

- *English version shown.*
- *An (*) by part numbers indicate: Color Code Required.*

Risk Management Sign

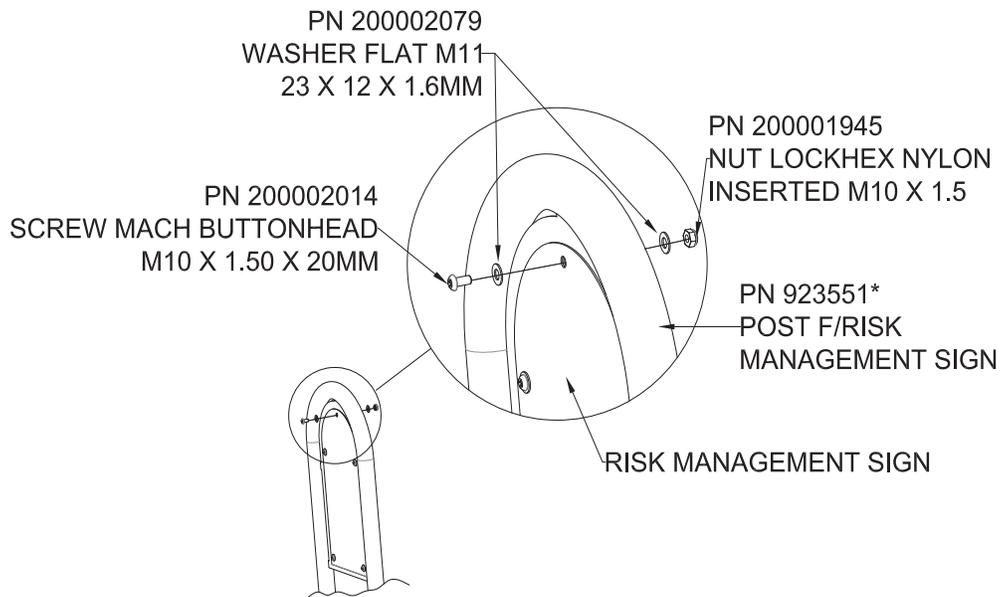
STEP 1 ATTACH AGE-APPROPRIATE STICKER

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



STEP 2 ATTACH SIGN TO POST FRAME

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

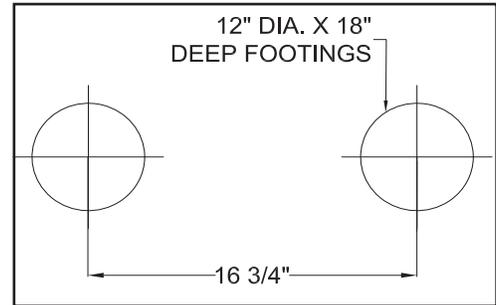


Risk Management Sign

STEP 3 DIG FOOTINGS

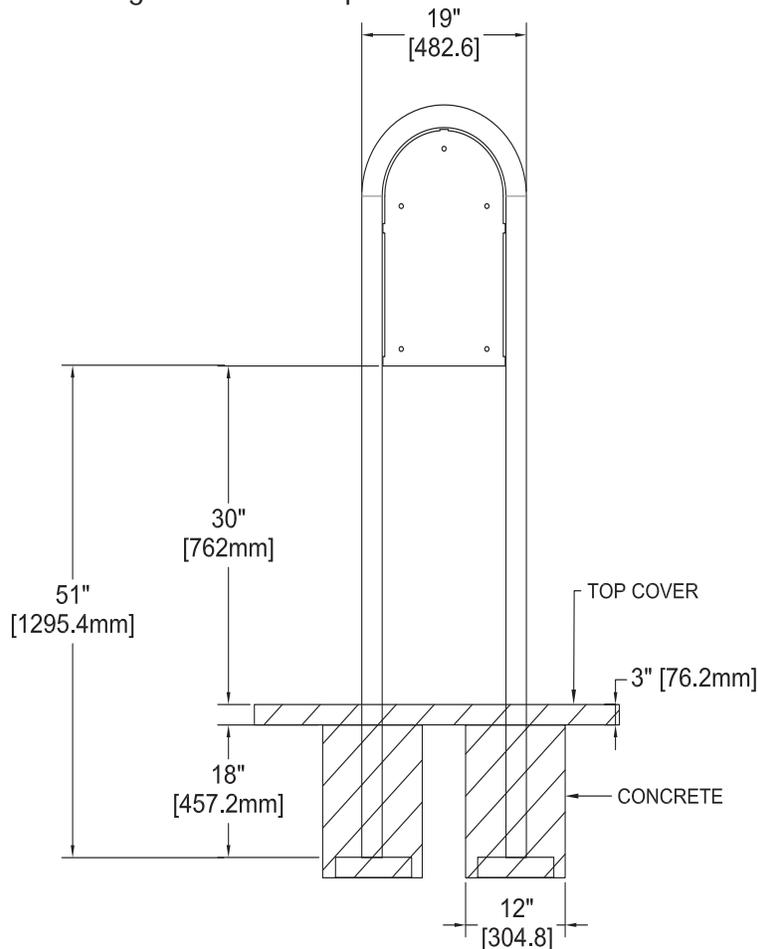
3a. Dig footings per *Footing Layouts*, *Construction Drawings*, and *Footing Details* installation.

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



STEP 4 SET SIGN IN FOOTINGS - OUTSIDE PLAY AREA

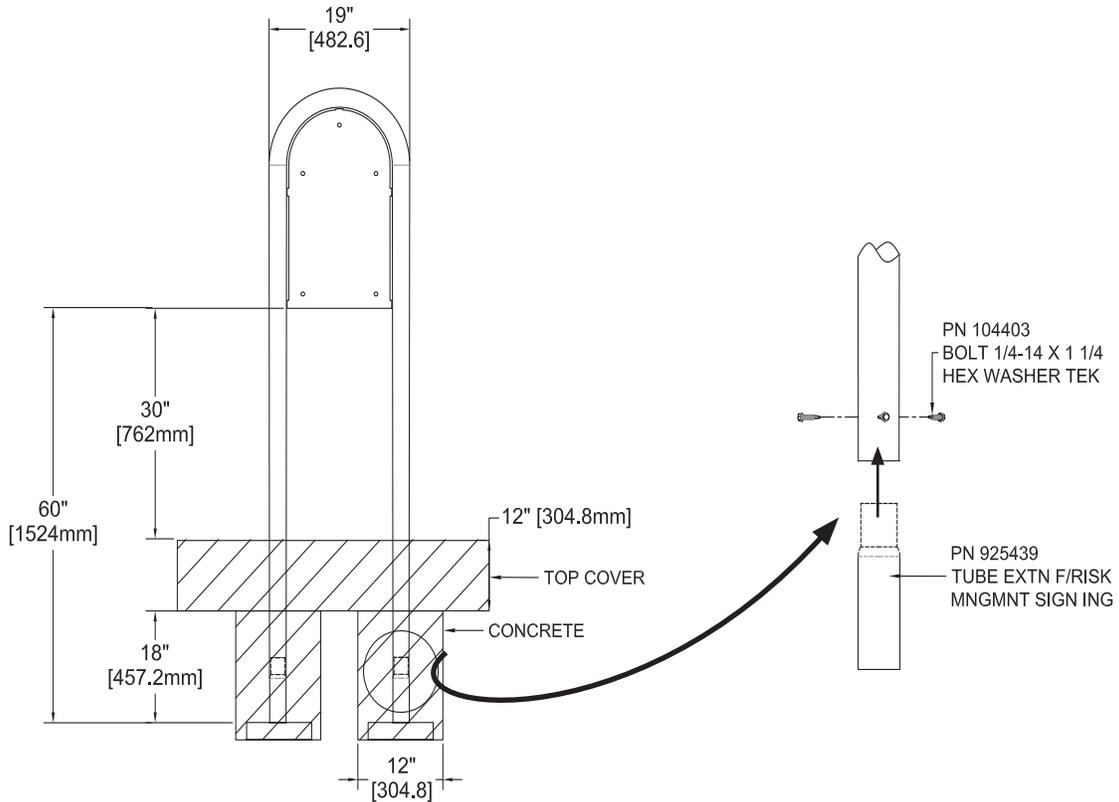
- 4a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 4b. Set risk management sign in footings per *Construction Drawings* pour concrete; plumb sign in footings and brace in position until concrete is cured.



Risk Management Sign

STEP 5 SET SIGN IN FOOTINGS - INSIDE PLAY AREA

- 5a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 5b. Insert the 10" tube extension into the risk management sign; use a rubber mallet, if needed, to swage the extensions for a tight fit; secure with Tek screws.
- 5c. Set the sign in the footings per Construction Drawings and pour concrete; plumb sign in footings and brace in position until concrete is cured.



FINAL STEP

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

Risk Management Sign

Bill of Material

Model 787

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923560	PC F/787 RISK MNGMT ENGLISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK

HW923551-1

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

Model 787FR

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923558	PC F/787FR RISK MNGMT FRENCH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHER TEK

HW923551-1

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

Risk Management Sign

Bill of Material cont.

Model 787SP

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923559	PC F/787SP RISK MNGMT SPANISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHR TEK

HW923551-1

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



Project Number: R0324200243

PlayArea: PlayArea_1 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 3/23/2020 12:00:00 AM

TOT SWING SEAT

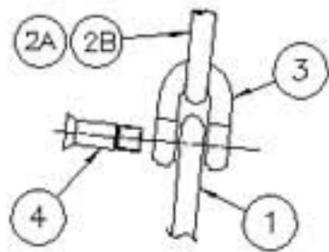
200302389

1800038B

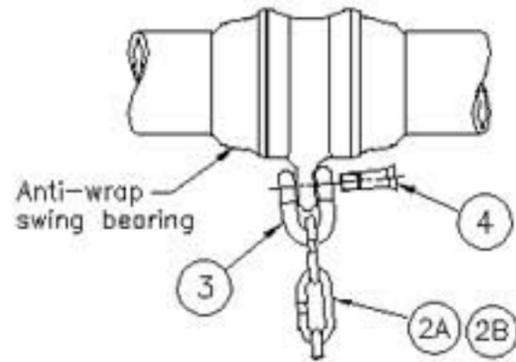
Sheet 1 of 1

AUTHORIZED BY: 14APR14

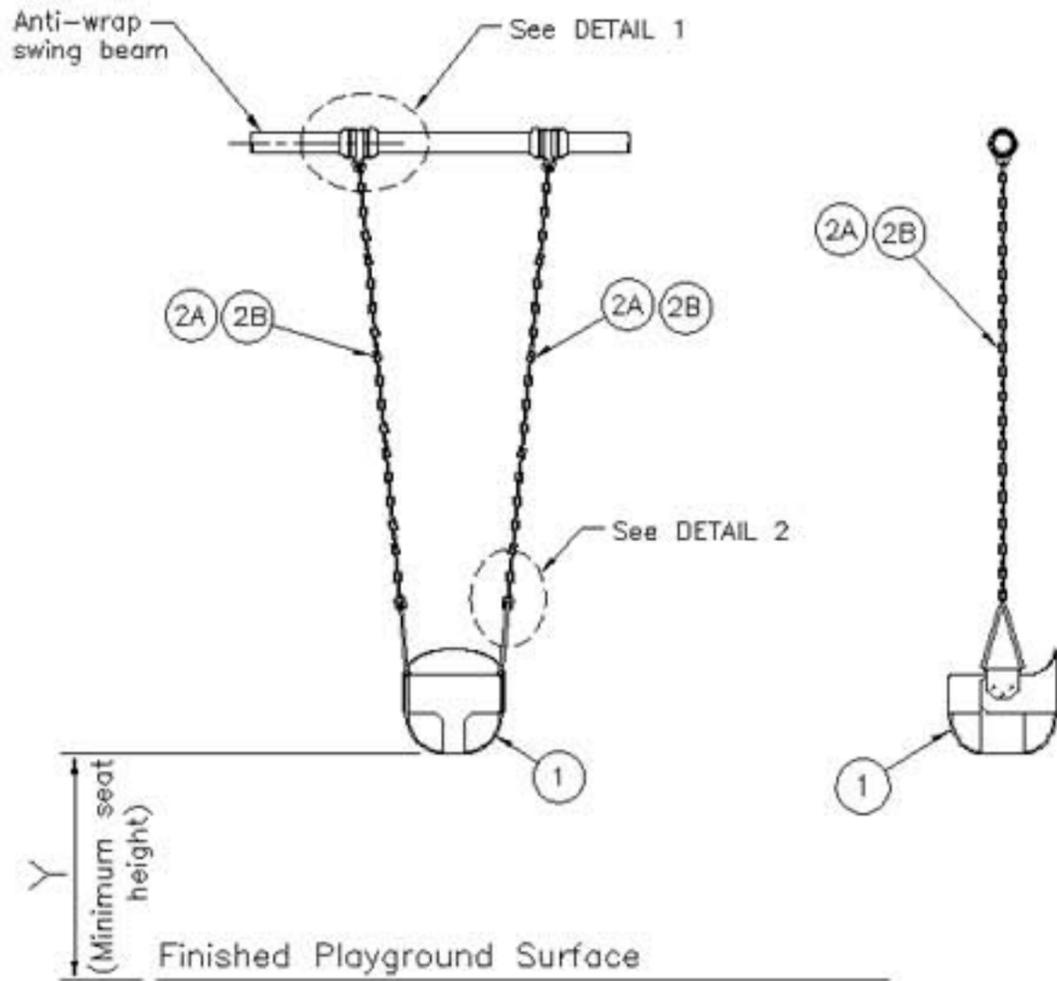
Alpha



DETAIL 2
Typ 2 Places



DETAIL 1
Typ 2 Places



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 24 INCHES

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

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

Application

- For age groups 2-12 years.

Maintenance

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

Specifications

CHAINS

MATERIAL: 4/0 chain link hot dipped galvanized

TOT SEAT

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

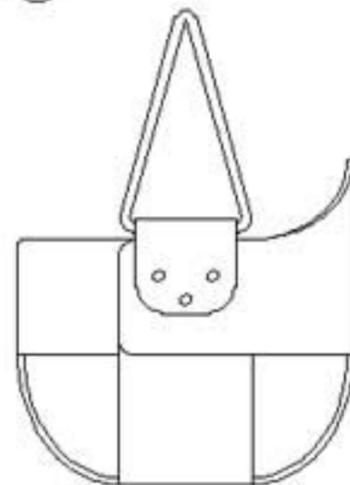
Installation Instructions

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

NOTES:

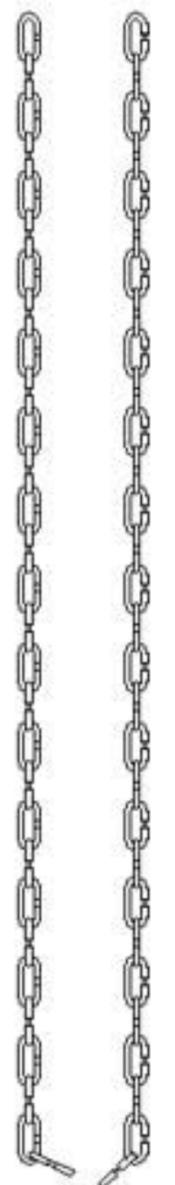
1. See separate instruction for swing frame installation.

1



2A

2B

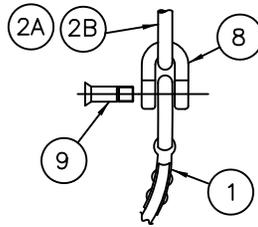


BELT SWING SEAT

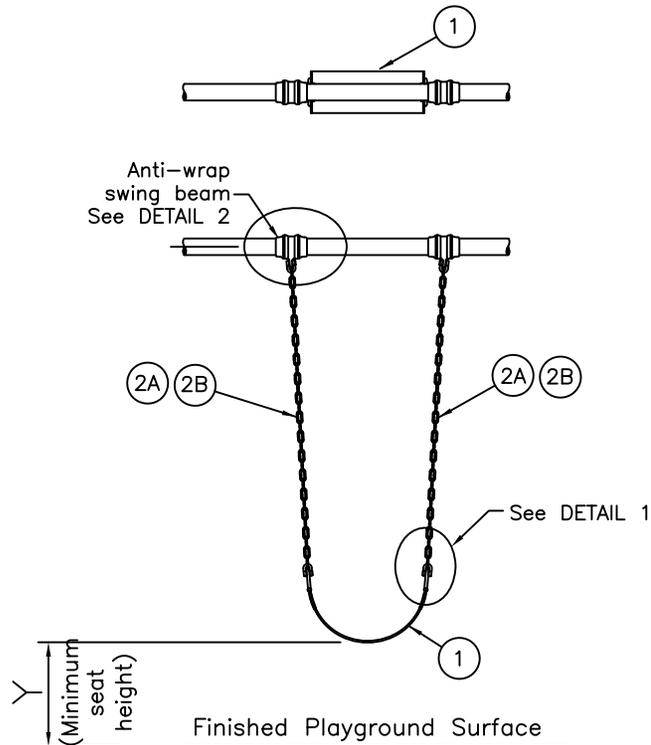
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Sheet 1 of 2

AUTHORIZED BY: 17APR19
Steve Adkins



DETAIL 1
Typ 2 Places



ASSEMBLY BELT SEAT F/8' SWING W/CHAIN - 200202835
ASSEMBLY BELT SEAT F/10' SWING W/CHAIN - 200202832

Item	Code	Description	Qty.
1	999604*	BELT SWING SEAT, SLASH PROOF - NO LOGO	1
2A	200187286	CHAIN F/8' TOP RAIL BELT/DURAGLIDE (71")	1
2B	200187287	CHAIN F/10' TOP RAIL BELT/DURAGLIDE (95")	1
3	200189491	HDWR BAG LBL/INST.F/BELT SWG CSA	1
4	200189492	HDWR BAG LBL/INST.F/BELT SWG 8' BEAM US	1
5	200189493	HDWR BAG LBL/INST.F/BELT SWG 10' BEAM US	1
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	1
7	HW35993-02	HRDW PKG 2 SM D STY SKL ST S1/1	1

HRDW PKG 2 SM D STY SKL ST S1/1 - HW35993-02

Item	Code	Description	Qty.
8	200035993	SHACKLE "D" STYLE 41MM 300 SS (SMALL)	2
9	200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE (SM)	2

Application

- For age groups 2-12 years.

Maintenance

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

Specifications

CHAINS

MATERIAL: 4/0 chain link hot dipped galvanized

BELT SEAT

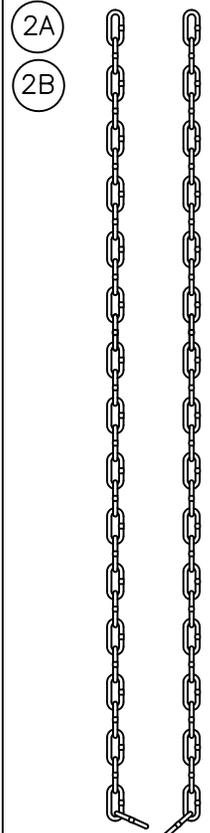
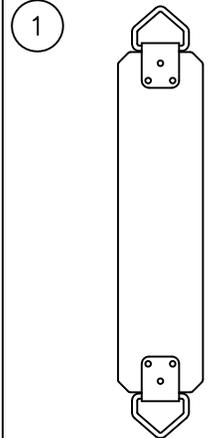
MATERIAL: Rubber with a tempered steel insert molded inside

Installation Instructions

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

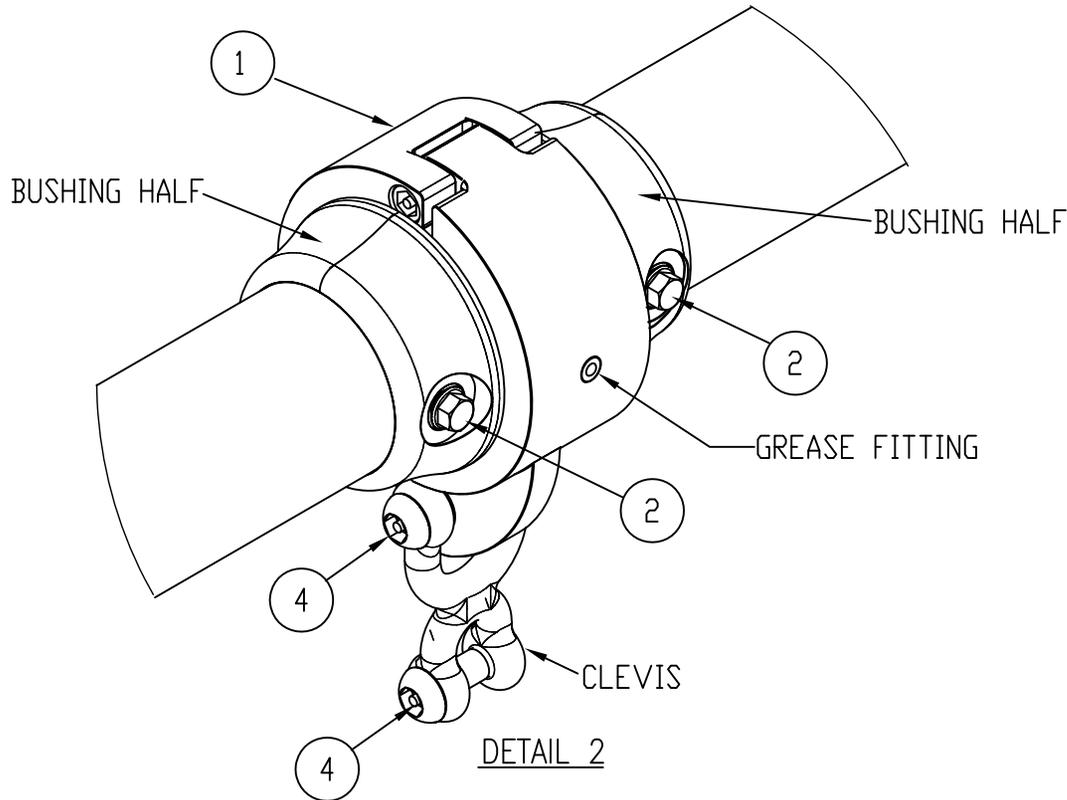
NOTES:

1. See separate instruction for swing frame installation.



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 12 INCHES.



994824 - (2) ANTI WRAP HANGER 2 3/8" TOP RAIL PARTS

Item	Code	Description	Qty.
1	102421	ANIT-WRAP SWING HANGER 2 3/8" TOP RAIL	2
2	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK	8
3	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
4	SP2008898	LOCTITE 271 RED, .02 OZ (.5ML) DISP TUBE	1

NOTE: DISCARD TEK SCREWS THAT COME WITH THE 102421 KIT AND USE (ITEM 2).

Installation Instructions

STEP 1 - REMOVE THE BOLT FROM THE CLEVIS AND SET THE BOLT ASIDE.

STEP 2 - OPEN THE HANGER ASSEMBLY (ITEM 1) AND REMOVE THE BUSHING HALVES. CENTER ONE (1) OF THE BUSHING HALVES ON TO THE BEAM USING THE HANGER LAYOUT FOR LOCATION, SHEET 3. ATTACH USING TWO (2) OF BOLTS (ITEM 2).

STEP 3 - REPEAT WITH THE OTHER BUSHING HALF. NOTE THAT THE BUSHING HALVES WILL NOT COMPLETELY MATE ON THE SWING BEAM. ALIGN THE TABS WITH THE NOTCHES AND ENSURE THE GAP BETWEEN THE BUSHING HALVES IS EQUAL ON BOTH SIDES OF THE SWING BEAM.

STEP 4 - PLACE THE HANGER ASSEMBLY (ITEM 1) AROUND THE BUSHING HALVES.

STEP 5 - APPLY LOCTITE (ITEM 4) TO THE END OF THE BOLT THAT WAS SET ASIDE IN STEP 1. ATTACH THE CLEVIS BACK TO THE HANGER ASSEMBLY (ITEM 1) USING THAT BOLT.

STEP 6 - ATTACH THE CHAIN TO THE BOTTOM OF THE CLEVIS USING THE BOLT THAT CAME WITH (ITEM 1). APPLY LOCTITE (ITEM 4) TO THE END OF THE BOLT BEFORE INSERTING INTO CLEVIS. TIGHTEN ALL HARDWARE.

STEP 7 - USING A GREASE GUN, PLACE A SUFFICIENT AMOUNT OF ALL-PURPOSE GREASE INTO THE GREASE FITTING TO ALLOW THE HANGER TO SWING FREELY.

Arch Swing Frames with Anti-Wrap Swing Hangers

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

Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203507	Arch Swing Frame 3.5" Single Bay	4
200203508	Arch Swing Frame 3.5" Add-On	5
200203542	Arch Swing Frame 3.5" Short Bay	5
200203543	Arch Swing Frame 3.5" Add-On	6

Note:

- *Inspect equipment on a regularly scheduled basis. Refer to Playground Inspection/Maintenance and Repair Guidelines located in Installation Manual. Anti-Wrap Swing Swivel should be inspected monthly to ensure there are no worn, sharp, vandalized or rusted components. It should also be determined at this time if more grease is required to keep swivel moving freely.*
- *An (*) by a part number (CODE) indicate: Color Code Required.*

200203507 ARCH SWING FRAME 3.5" SGL BAY			
ITEM	CODE	DESCRIPTION	QTY
1	983060*	ARCHED SWING SUPRT ASY, PTD	2
2	979396*	TOP RAIL 10'-6" X 3 1/2 OD	1
3	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
4	988278	PIN, THREADED, 5/8" OD X 4"	2
5	999046*	PARTS CARTON - TOUCH-UP PAINT-SWG LEG	1
6	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
7	999047*	PARTS CARTON - TOUCH-UP-PAINT-TOP RAIL	1
8	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1) R/B	1
9	200182848	LABEL ID/AGE 2-12/18MOS-12YRS.	1
10	200182851	LABEL COVER CLEAR LAMINATE	1
11	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
12	200182854	STICKER CIRCLE, AGE 2YR - 12YR	1
13	200182855	STICKER CIRCLE, AGE 18M - 12YR	1
14	HW994823-1	HRDW PKG AW7147352 S1/1	1

Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

200203508 ARCH SWING FRAME 3.5" ADD-ON			
ITEM	CODE	DESCRIPTION	QTY
15	983079*	ARCHED SWING SUPPORT, DBL RECEIVER, PTD	1
16	979396*	TOP RAIL 10'-6" X 3 1/2 OD	1
17	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
18	988278	PIN, THREADED, 5/8" OD X 4"	2
19	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
20	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1) R/B	1
21	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
22	HW994823-1	HRDW PKG AW7147352 S1/1	1
200203542 ARCH SWING FRAME 3.5" SHORT BAY			
ITEM	CODE	DESCRIPTION	QTY
23	983060*	ARCHED SWING SUPRT ASY, PTD	2
24	991493*	TOP RAIL 7'-4" X 3 1/2" O.D.	1
25	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
26	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1)R/B	1
27	200182848	LABEL ID/AGE 2-12/18MOS.-12YRS.	1
28	200182851	LABEL COVER CLEAR LAMINATE	1
29	999046*	PARTS CARTON - TOUCH-UP PAINT-SWG LEG	1
30	999047*	PARTS CARTON - TOUCH-UP PAINT-TOP RAIL	1
31	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
32	988278	PIN, THREADED, 5/8" OD X 4"	2
33	200182854	STICKER CIRCLE, AGE 2YR - 12YR	1
34	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
35	2001828554	STICKER CIRCLE, AGE 18M - 12YR	1
36	HW994823-1	HRDW PKG AW7147352 S1/1	1

Arch Swing Frames with Anti-Wrap Swing Hangers

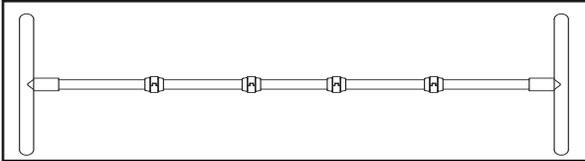
200203543 ARCH SWING FRAME 3.5" SHORT BAY ADD-ON			
ITEM	CODE	DESCRIPTION	QTY
37	991493*	TOP RAIL 7'-4" X 3 1/2" O.D.	1
38	983079*	ARCHED SWING SUPPORT, DBL RECEIVER, PTD	1
39	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	1
40	102423	TUBE 2mi-THREADLOCKER VIBRA-TITE 12102	1
41	988278	PIN, THREADED, 5/8" OD X 4"	2
42	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
43	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1)R/B	1
44	HW994823-1	HRDW PKG AW7147352 S1/1	1
PARTS CARTON (2) ANTI-WRAP 3 1/2" - PN 994825**			
45	102422	ANTI WRAP SWING HANGER 3 1/2" TOP RAIL	2
46	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK	8
47	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
48	SP2008898	LOCTITE 271 RED, .02 OZ (.5ML) DISP TUBE	1
HRDW PKG AWT147352 S1/1** HW994823-1			
ITEM	CODE	DESCRIPTION	QTY
49	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
50	104052	BOLT 3/8-16 X 5/8 BHCS 6 LOBE 18-8 SS	4
51	104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
52	117003	WASHER 5/16 FLAT 18-8 SS	4
(**)	NOTE: USED FOR <i>ALL</i> MODELS		

Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

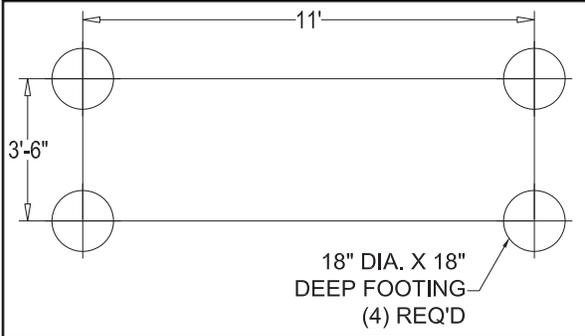
Top View



**1800046
Model 200203507
Arch Swing Frame 3.5" Single Bay**



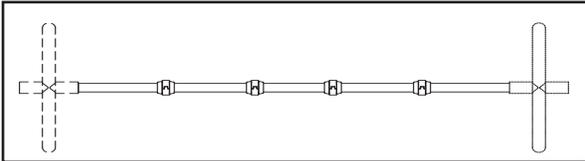
Top View



11'
3'-6"
18" DIA. X 18"
DEEP FOOTING
(4) REQ'D

Footing Layout

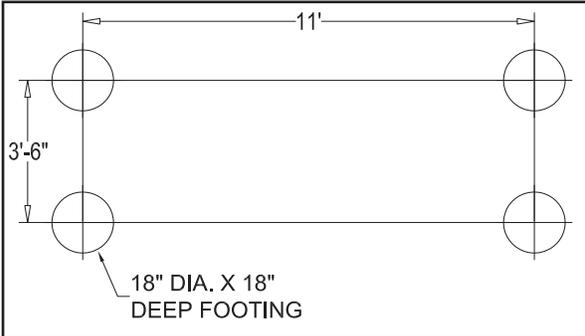
Top View



**1800046
Model 200203508
Arch Swing Frame 3.5" Add-On**



Top View

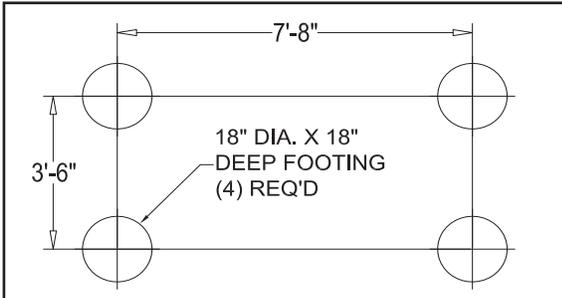
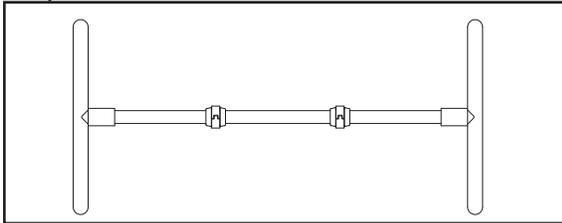


11'
3'-6"
18" DIA. X 18"
DEEP FOOTING

Footing Layout

Arch Swing Frames with Anti-Wrap Swing Hangers

Top View

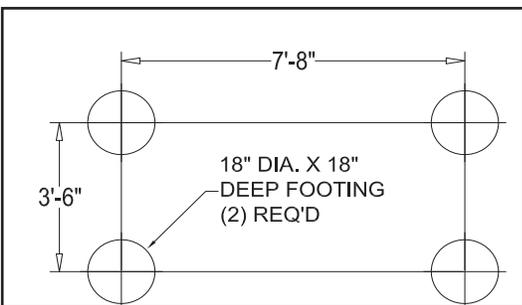
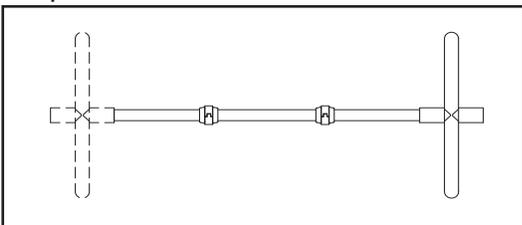


Footing Layout

1800046
Model 200203542
Arch Swing Frame 3.5" Short Bay



Top View



Footing Layout

1800046
Model 200203543
Arch Swing Frame 3.5" Short Bay Add-On



Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

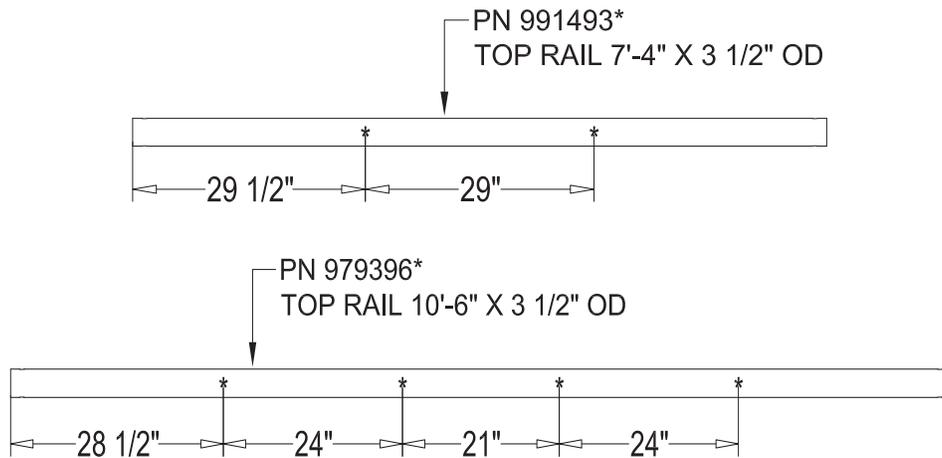
STEP 1 DIG FOOTINGS

- 1a. Dig footings per *Footing Layout*, Construction Drawings and *Footing Details installation*. Place blocking material in bottom of footing holes.

Note: Do not pour concrete for footings until model is fully assembled per instructions and braced in position, leveled and plumbed.

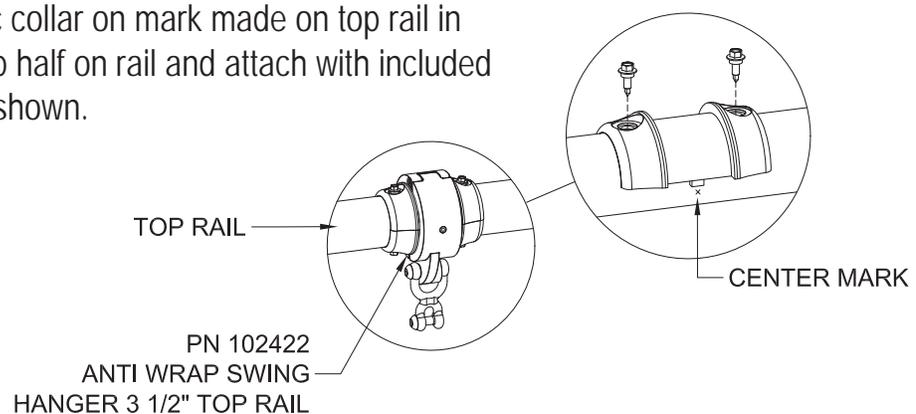
STEP 2 MARK TOP RAIL FOR HANGER PLACEMENT

- 2a. Mark top rails for anti-wrap swing hanger placement. Measure from end of top rail to center of anti-wrap swing hanger.



STEP 3 ASSEMBLE AND ATTACH ANTI-WRAP WING HANGERS

- 3a. Locate anti-wrap swing hanger. Remove H-shackle using a wrench with pin hole to remove tamper proof bolt and set bolt aside. Open hanger into halves and remove plastic collar.
- 3b. Center plastic collar on mark made on top rail in step 2; set top half on rail and attach with included hardware as shown.

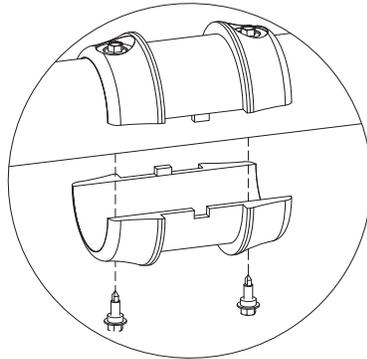


Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 3 ASSEMBLE AND ATTACH ANTI-WRAP WING HANGERS cont.

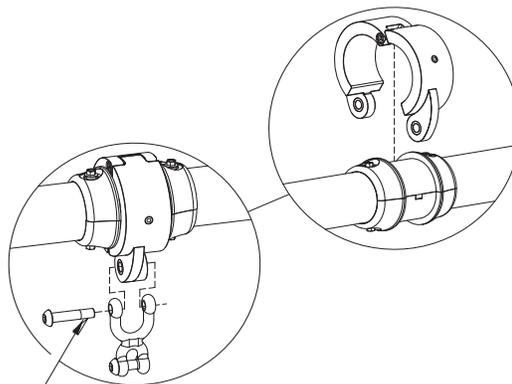
3c. Repeat with bottom collar half.

Note: Plastic collar halves will NOT COMPLETELY MATE on top rail. Align tab with notch and ensure gap between collar halves is equal on both sides of top rail.



3d. Place steel hanger around plastic collar; apply Vibra-Tite Threadlocker to end of tamper proof bolt; attach H-shackle to hanger via tamper proof bolt; tighten all hardware.

Note: Using a grease gun, place a sufficient amount of all purpose grease into grease fitting, to allow hanger to swing freely.



PN 102423
TUBE 2ml-THREADEDLOCK
VIBRA-TITE 12102

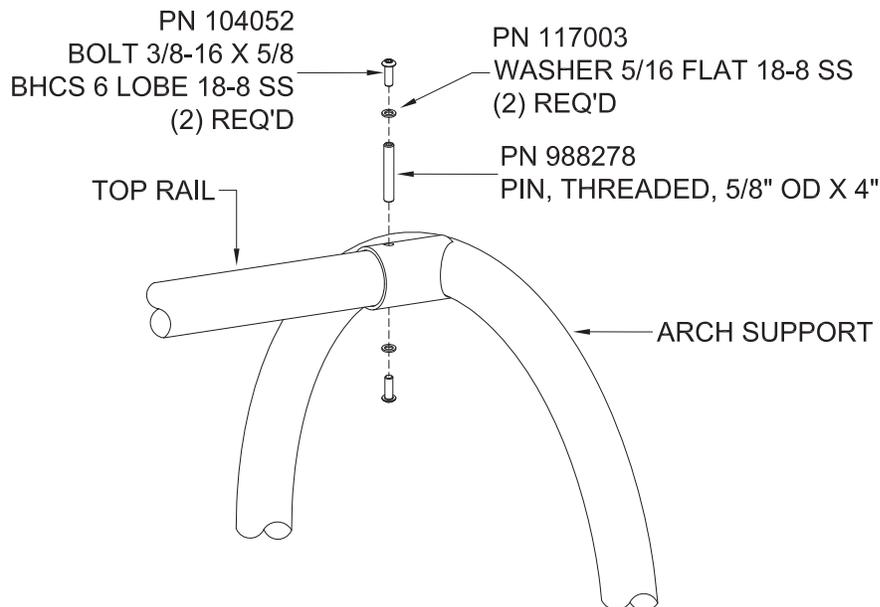
Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 4 FASTEN TOP RAIL TO ARCHES

- 4a. Set arches on ground with stubs facing each other. Firmly seat ends of top rail within each arch stub, aligning mating bolt holes. Ensure that weldments for clevises are on underside of top rail assembly, for later attachment of swing chains and seats.

Install Tip: Once top rail is in stub, all four (4) bolt holes must be aligned. If necessary for alignment, run a 11/16" drill bit through all four (4) holes. Do not allow bit to wander, creating a larger hole.

- 4b. Install a bolt and washer in one end of threaded pin and tap through top rail and arch stub, then install a bolt and washer on opposite side. Repeat at other end of top rail.



STEP 5 SET SWING FRAMES INTO FOOTINGS

- 5a. Lift frame assembly and set in footings. Ensure that arches are plumb and that the top rail is level. Block in position so that bottom surface of top rail is **96"** (8'-0") from finished grade.

Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 6 POUR CONCRETE

- 6a. Rope off area to prevent access and pour concrete.
- 6b. Install age appropriate labels per "Placement of Age Appropriate Labels" located in the *Installation Manual*.

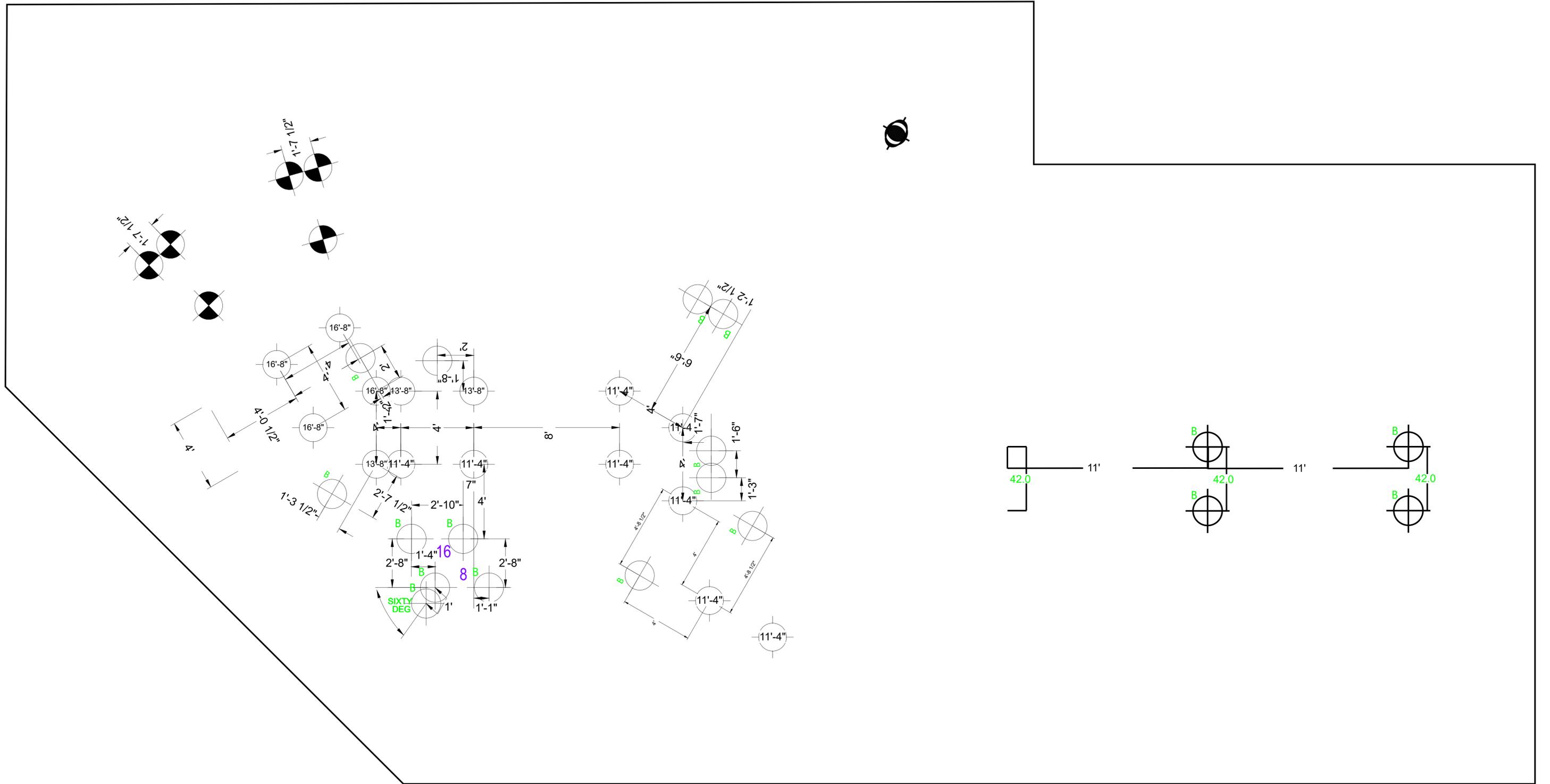
Important Note: Do not hang swing chains and seats until concrete has fully cured per concrete manufacturer's instructions (usually 72 hours) and protective surfacing is installed to avoid risk of injury to users and damage to play equipment.

FINAL STEP

Proceed with *Final Assembly installation*.

WINDOM WAY PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS



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

For inground equipment:

Post footing for posts for caps.



Post footing for posts without caps.



Play event footing

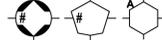


Custom Footing. See install for details

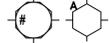


For surface mounted equipment:

Post footing for posts with caps.



Post footing for posts without caps.



Play event footing.



Custom Footing. See install for details





Project Number: R0324200244

PlayArea: Additional Items |

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 3/23/2020 12:00:00 AM



PRODUCT IDENTIFICATION LABEL

LABEL, IDENTIFICATION STAMPED W/RIVETS 200111492

AUTHORIZED BY: 04MAR13
Asph...

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

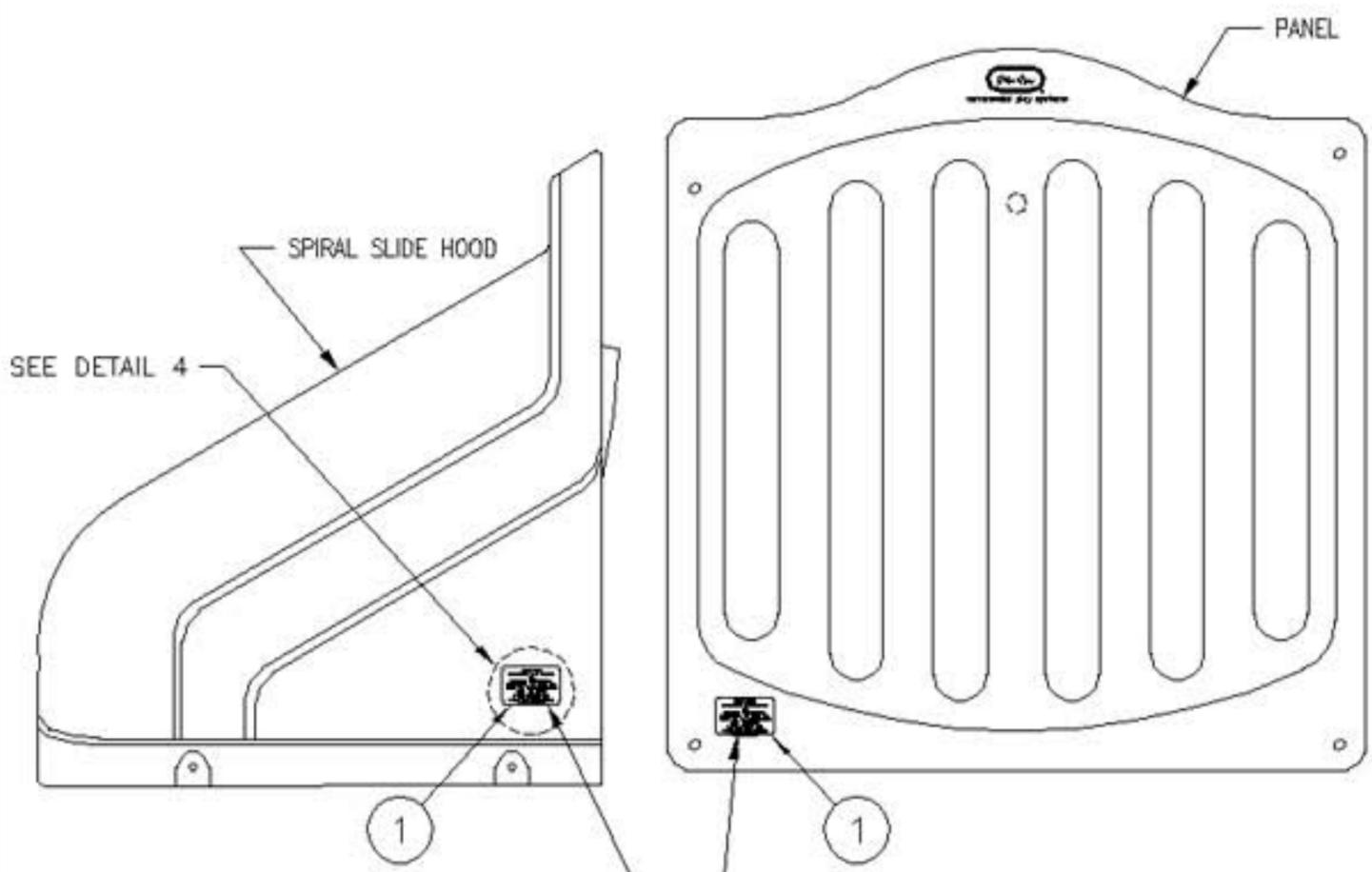
Application
This product identification label is an important part of your structure. It will provide key information for replacement parts and any warranty issues.

Installation Instructions

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

- Using the label as a template, mark and drill 4 $\phi 4\text{mm}$ [$5/32"$] holes.
- Attach the label using 4 pop rivets (item 2) as shown in Detail 4. Note: Insure label is flush with the surface and no gaps exist.

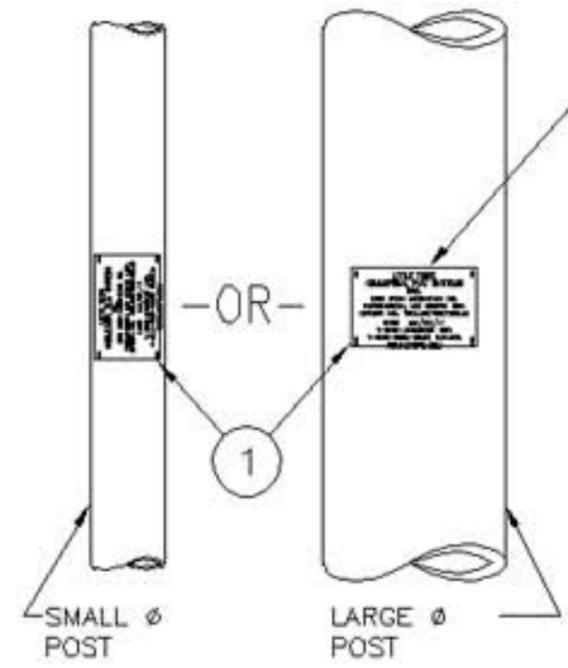
LITTLE TIKES
COMMERCIAL PLAY SYSTEMS
INC.
ONE IRON MOUNTAIN DR.
FARMINGTON, MO 63640 USA
ORDER NO. 123456789012345
DATE MM/DD/YY
1-800-325-8828 USA
1-800-265-9953 CANADA
WWW.LTTIKES.COM



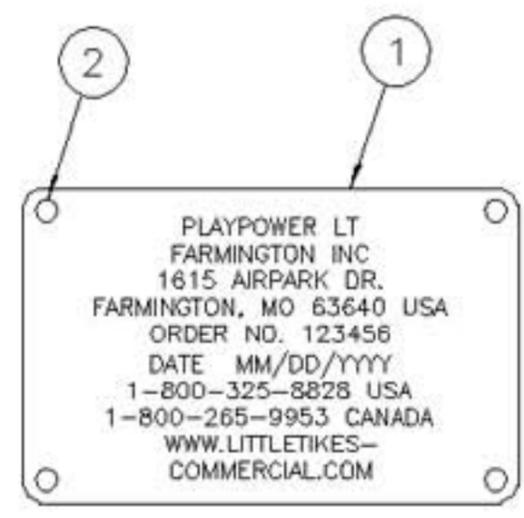
DETAIL
1

DETAIL
2

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



DETAIL
3



DETAIL
4

1

2





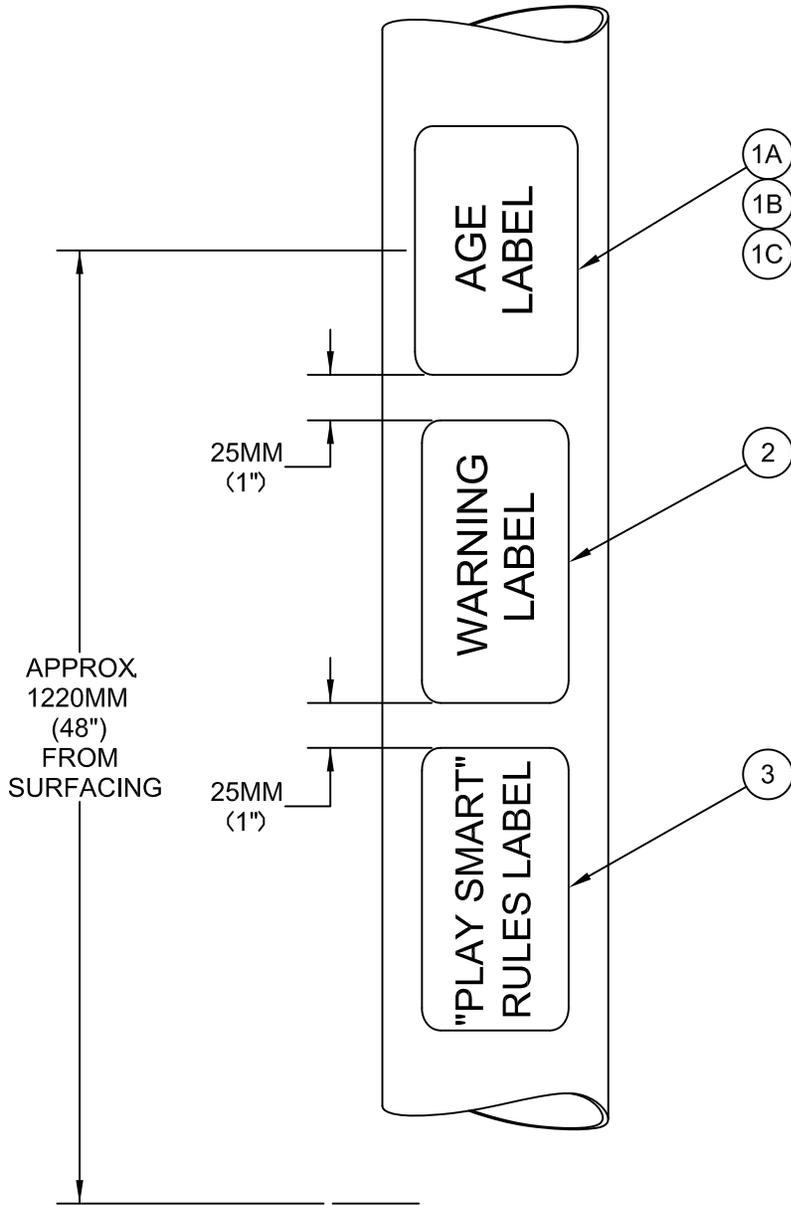
commercial play systems

AGE APPROPRIATE LABELS

1000005B

Sheet 1 of 1

AUTHORIZED BY: 03JUL18
TRACY ARCHER



AGE APPROPRIATE LABEL (2 TO 5 YRS) 200104304

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

AGE APPROPRIATE LABEL (2 TO 12 YRS) 200104305

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

AGE APPROPRIATE LABEL (5 TO 12 YRS) 200104307

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

Installation Instructions

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

1A



1B



1C





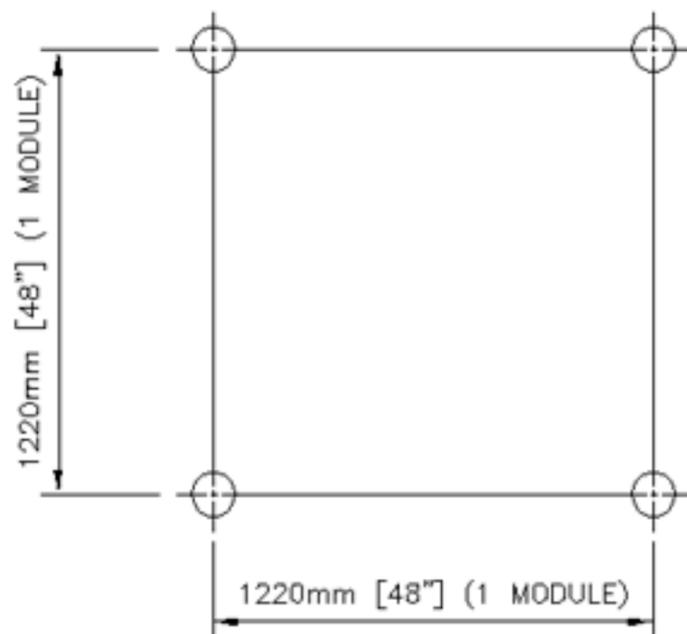
Project Number: R0324200244
PlayArea: PlayArea_1 | KidBuilders
Project Name:
Project Location:
Sales Representative:
Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

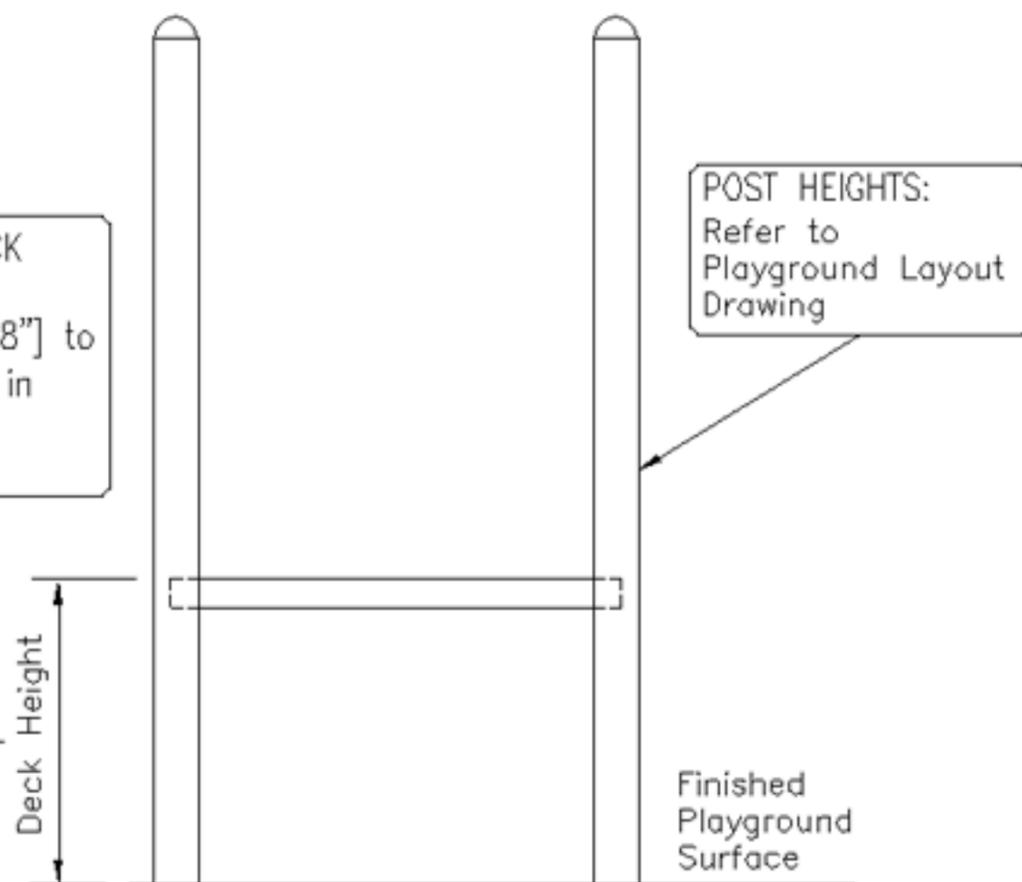
Please, read all information in this manual before starting to install your equipment.

Date: 3/23/2020 12:00:00 AM

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



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



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

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

AUTHORIZED BY:
Chris M. [Signature] 15MAR01

SITE REQUIREMENTS:

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

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

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

MAINTENANCE:

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

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

ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

SAFETY AREAS:

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

INSTALLATION MANUAL:

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

AUTHORIZED BY:
Chris M. [Signature] 15MAR01

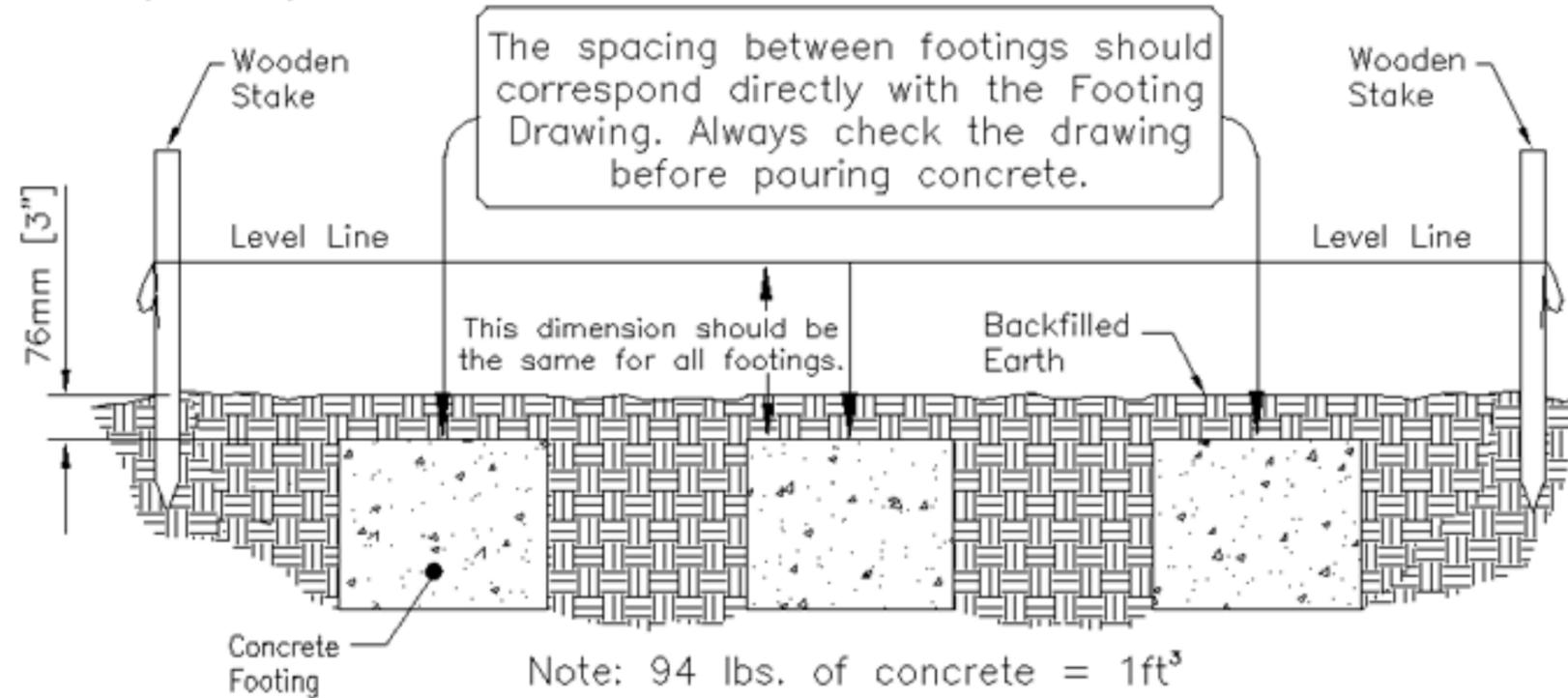
THE ORDER OF ASSEMBLY:

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

MAKING LEVEL FOOTINGS:

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

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



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

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

SUGGESTED TOOLS:

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

AUTHORIZED BY:
Chris M. [Signature] 15MAR01

WARNING

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

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

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

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

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

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

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

This label should be placed such that it will:

- (1) Be readily visible to the intended viewer and,
- (2) Alert the viewer to the potential hazard in time to take appropriate action.

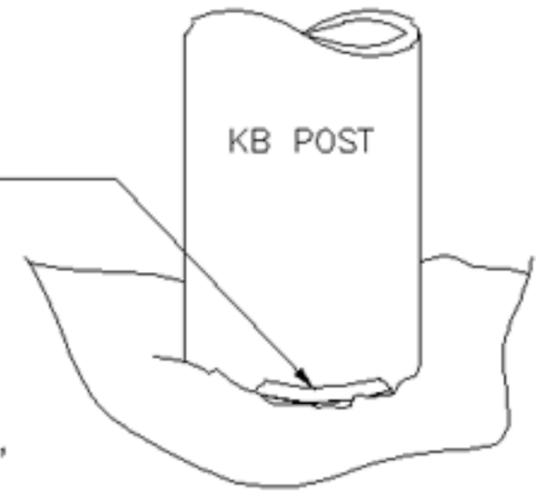
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

SLIDE INSTALLATION:

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

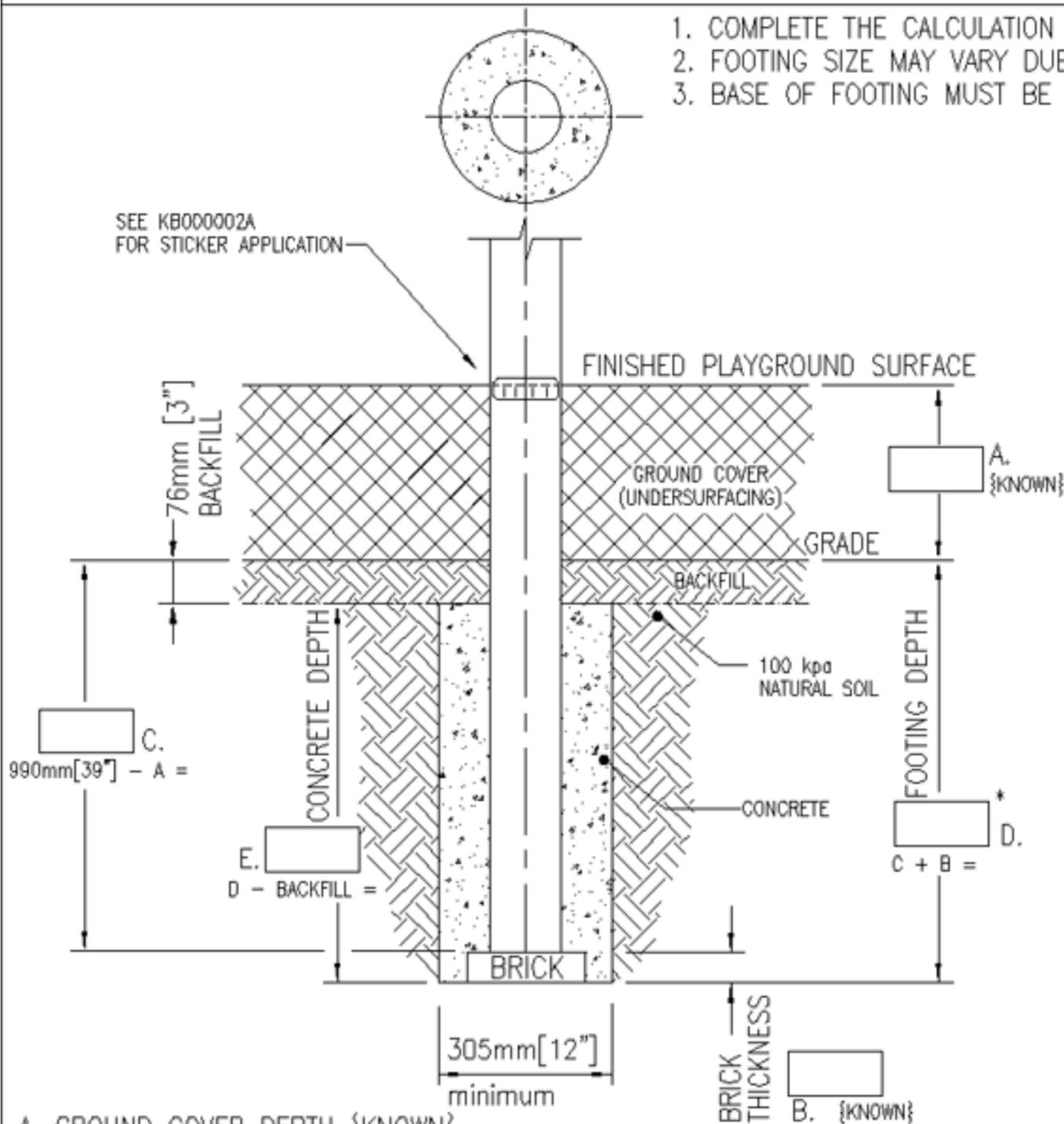
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will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

TOP OF SURFACE	HASTA A QUI	NIVEAU ZERO
INSTALL AND MAINTAIN TOP OF RECOMMENDED SURFACING TO THIS MARK	COLOQUE Y MANTENGA HASTA LA MARCA LA SUPERFICIE RECOMENDADA	POUR L'INSTALLATION ET LA MAINTENANCE LA SURFACE AMORTISSANTE DOIT ATTEINDRE CE NIVEAU



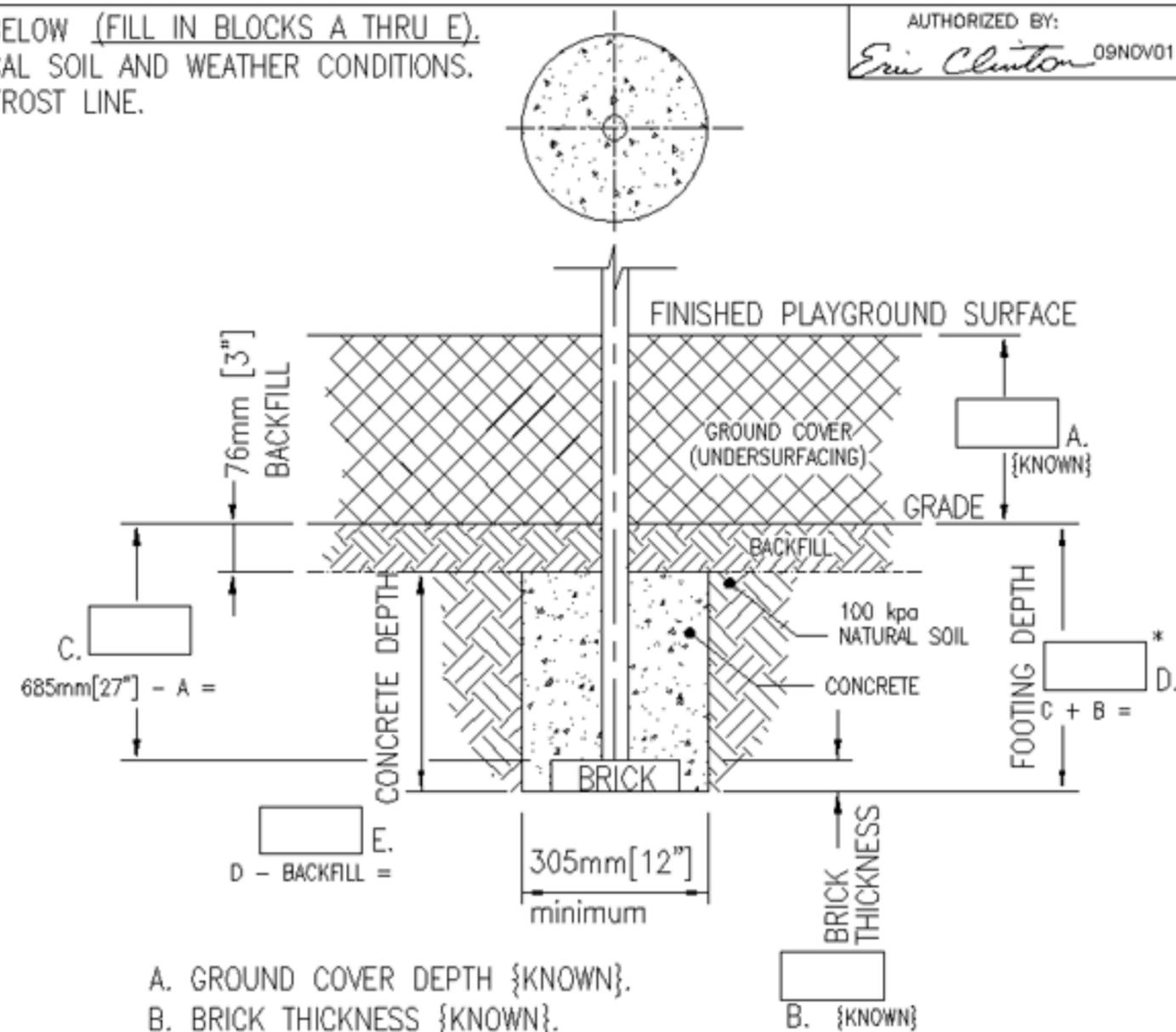
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the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

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



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

KB POST FOOTING - INGROUND



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

KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

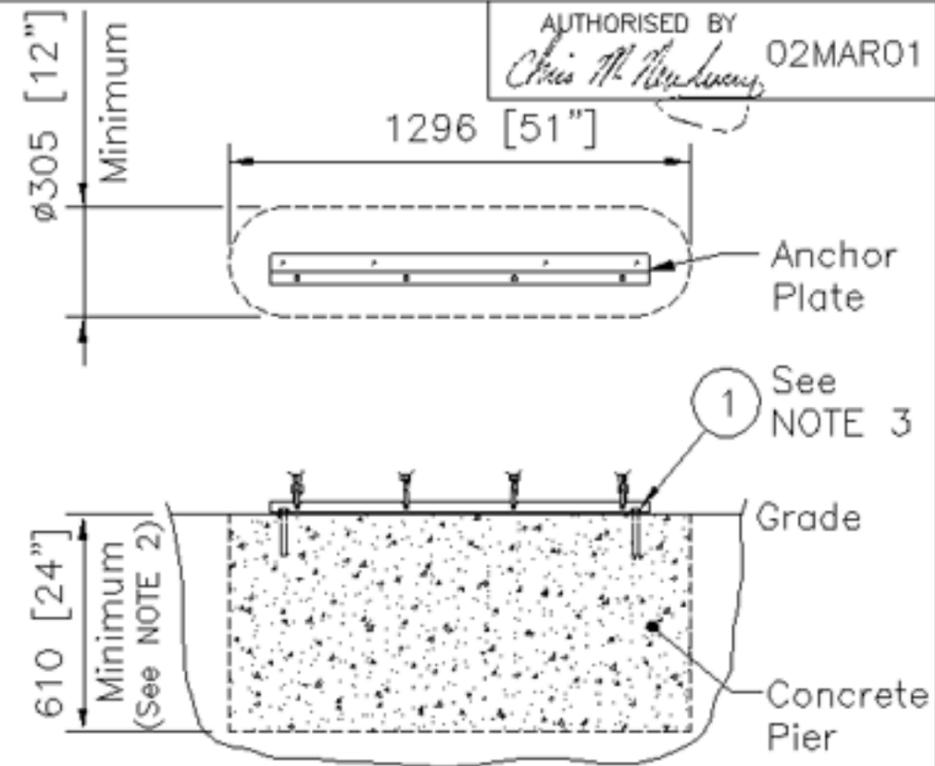
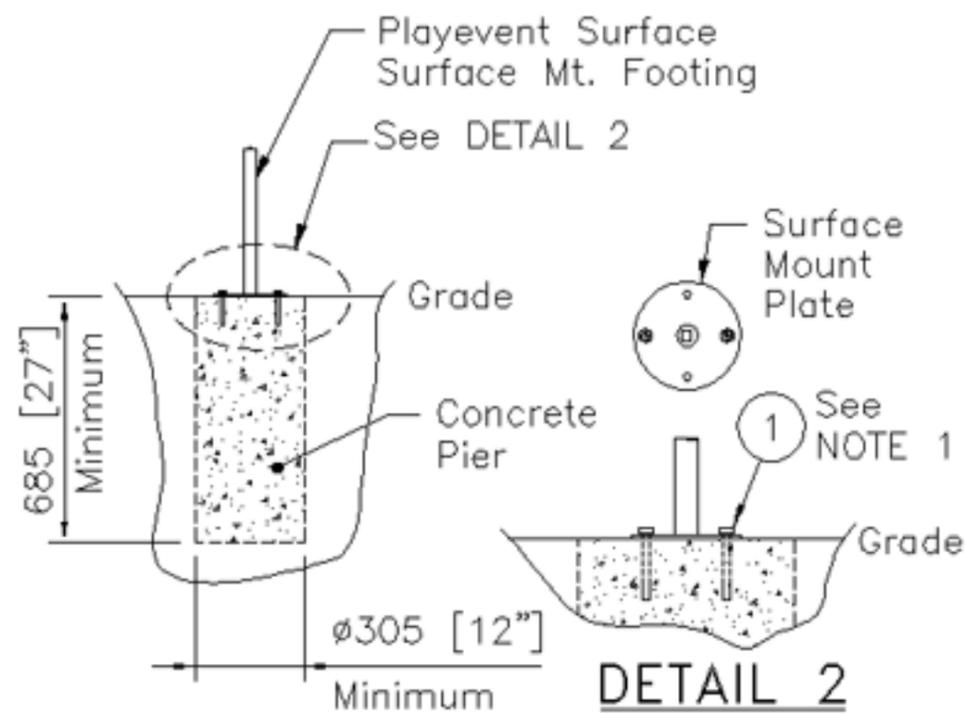
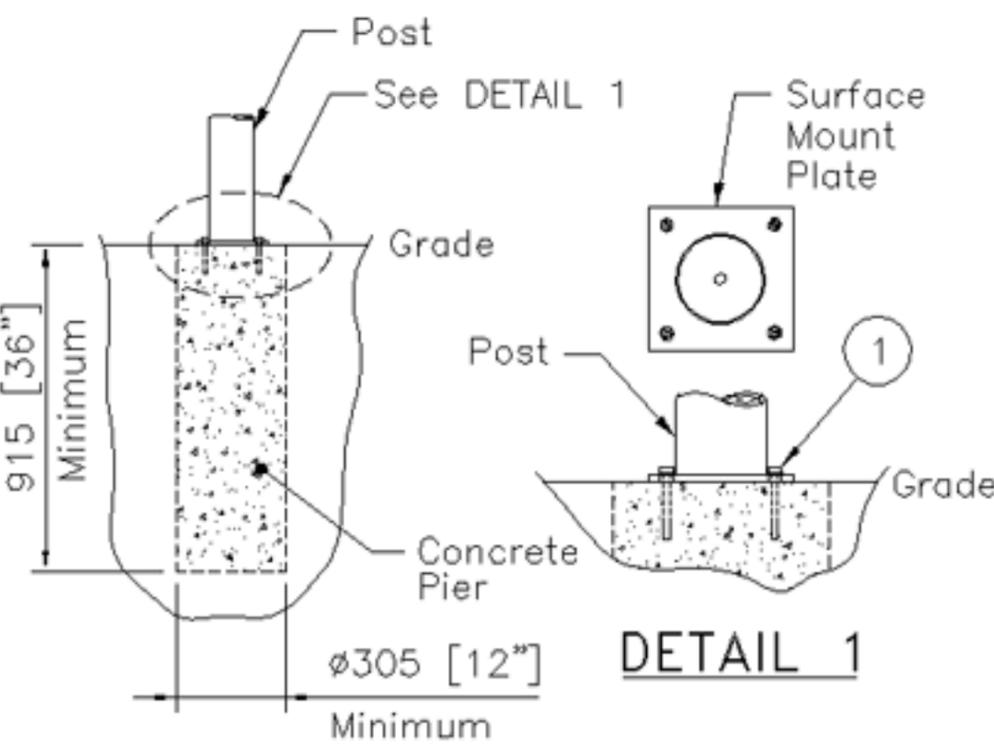
= 0.067 M³ x $\frac{\text{CONCRETE DEPTH (mm)}}{915}$ x No. OF FOOTING HOLES = M³

= 0.087 Yard³ x $\frac{\text{CONCRETE DEPTH (IN)}}{36}$ x No. OF FOOTING HOLES = Yard³

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

AUTHORISED BY
Chris M. [Signature] 02MAR01

OPTION 1: PIER



NOTE 1: Two per plate, diagonally located.

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

Round Anchor

Anchor Plate

Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

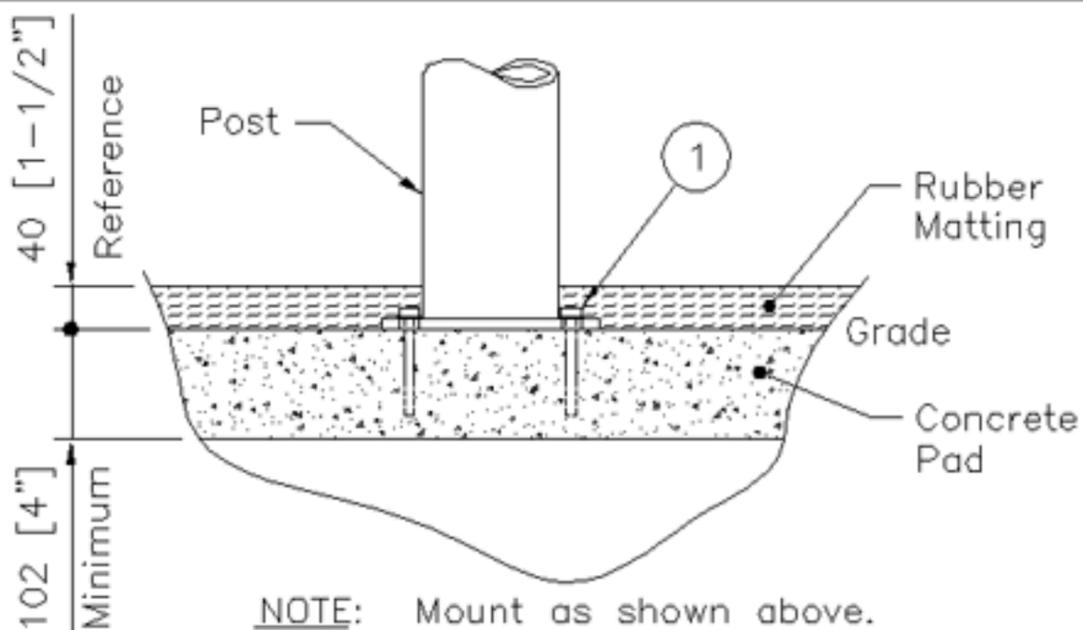
Post Footing

Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

Playevent Footing

OPTION 2: CONCRETE PAD

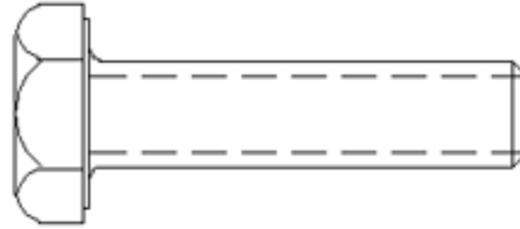
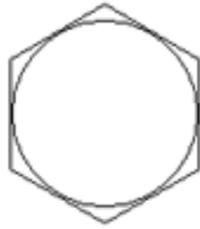
NOTE 4: Concrete may require up to 3 days to cure.
NOTE 5: A 3/8" Masonry bit is required to install anchor bolts.



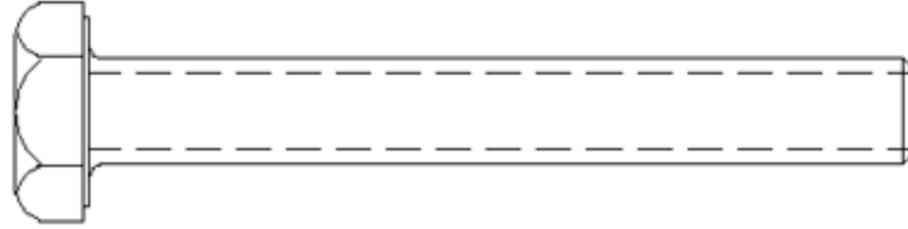
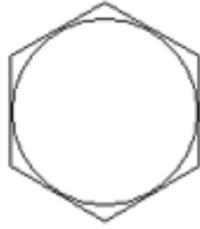
NOTE: Mount as shown above.

AUTHORIZED BY:
Chris M. Newberry 01MAR01

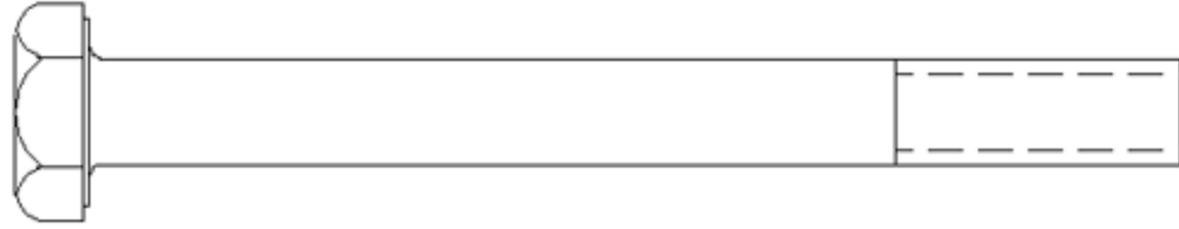
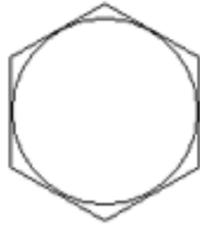
200001850
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



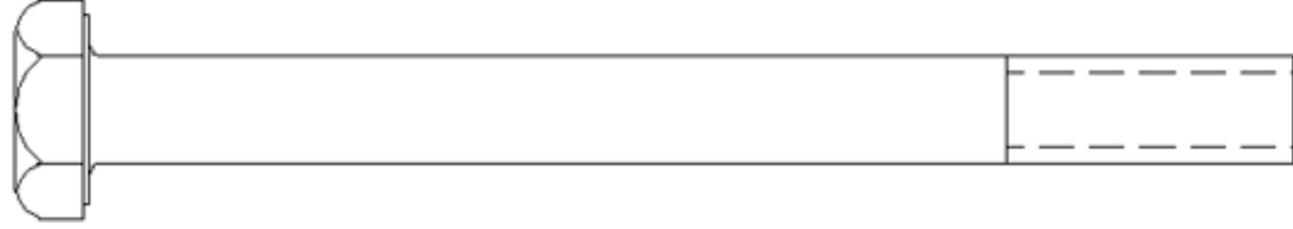
200001859
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



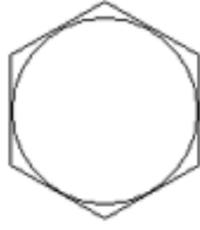
200001866
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



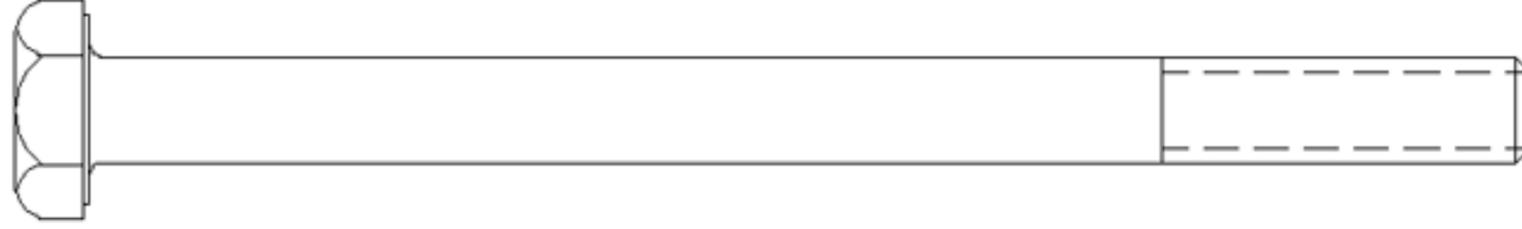
200001875
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



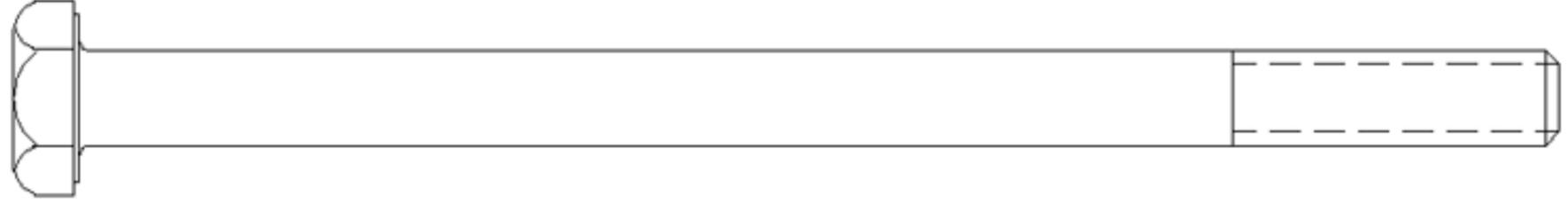
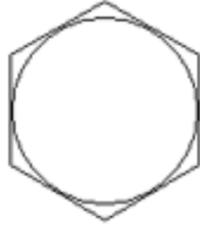
200001879
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

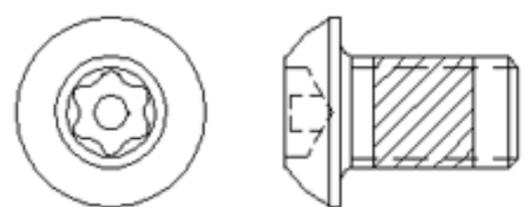


200001883
CAP SCREW HEX HEAD M10 x 1.50 x 130mm

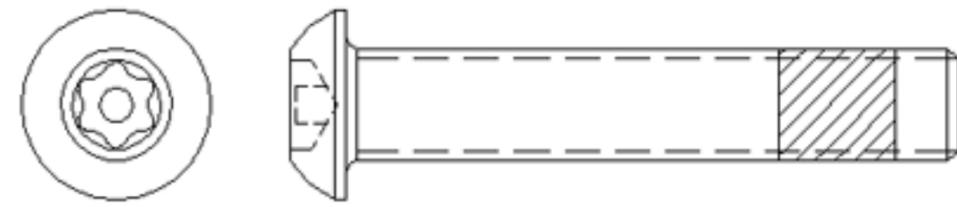


200000792
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

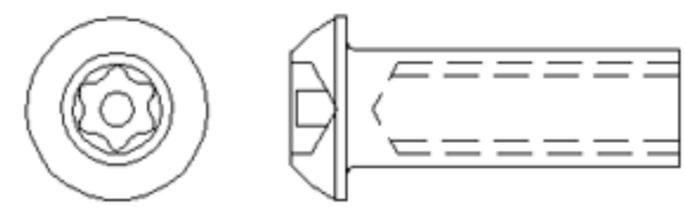




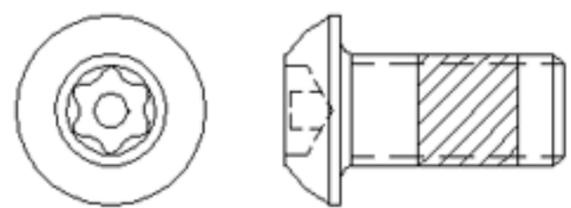
200002010
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



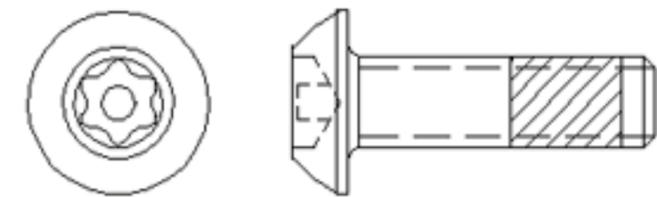
200002150
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



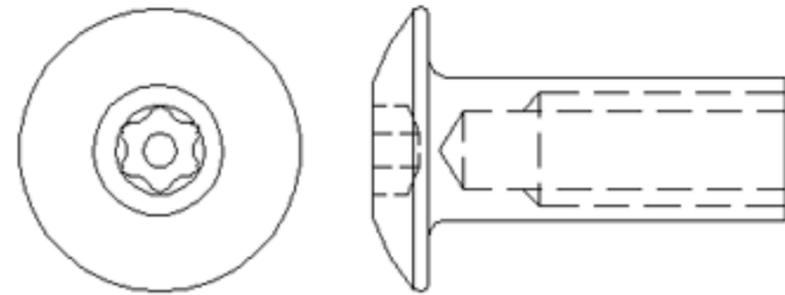
200002145
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



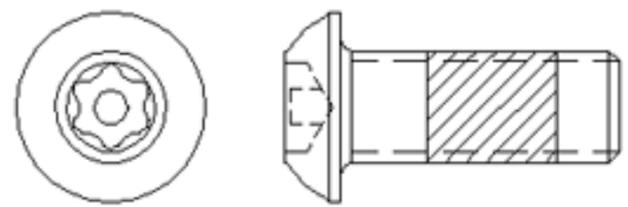
200002014
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



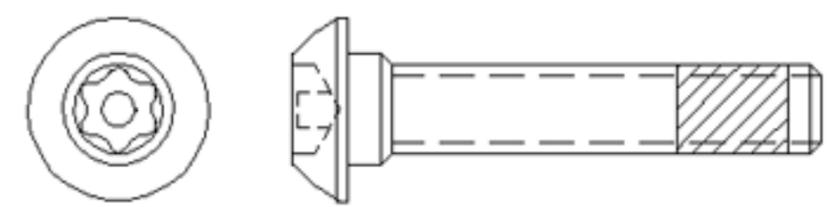
200002133
BOLT M8 x 1.25 MALE 27.5mm



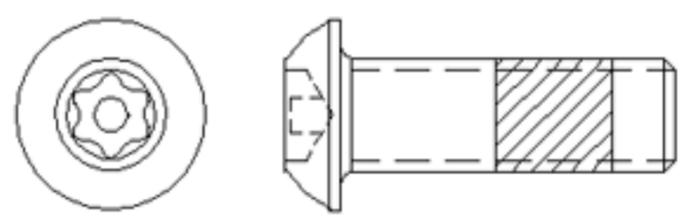
200001954
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



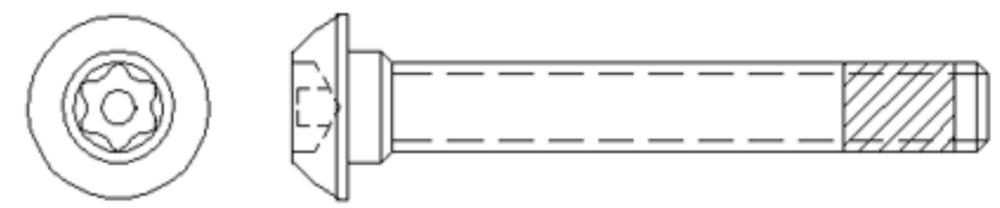
200002018
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



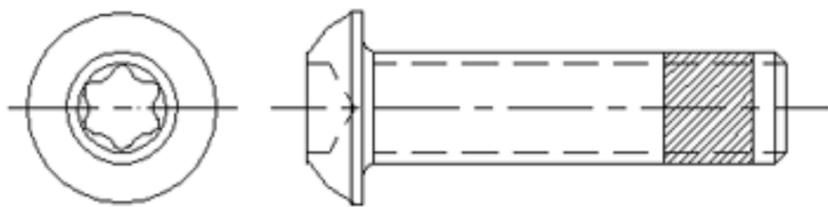
200002138
BOLT M8 x 1.25 MALE 42.5mm



200002030
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm

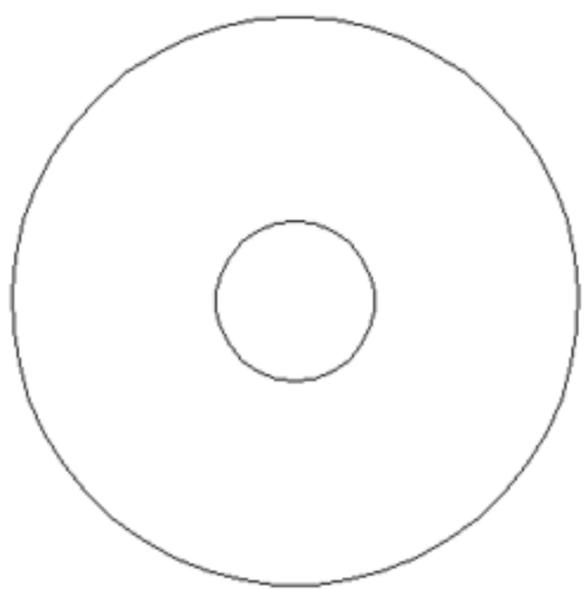


200002142
BOLT M8 x 1.25 MALE 57.5mm

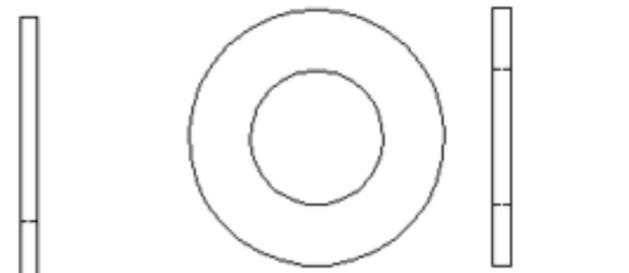


200097726
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm

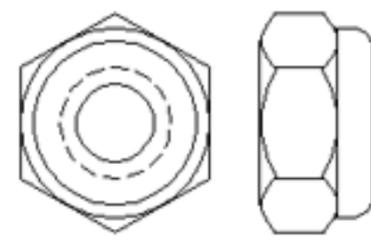
AUTHORIZED BY:
BARRY WILFONG 15FEB12



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



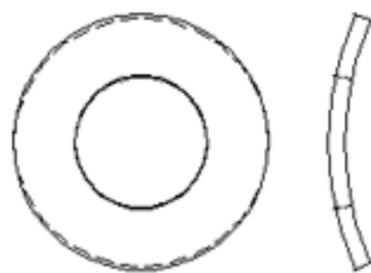
200002079
WASHER FLAT M11 23 x 12 X 1.6mm



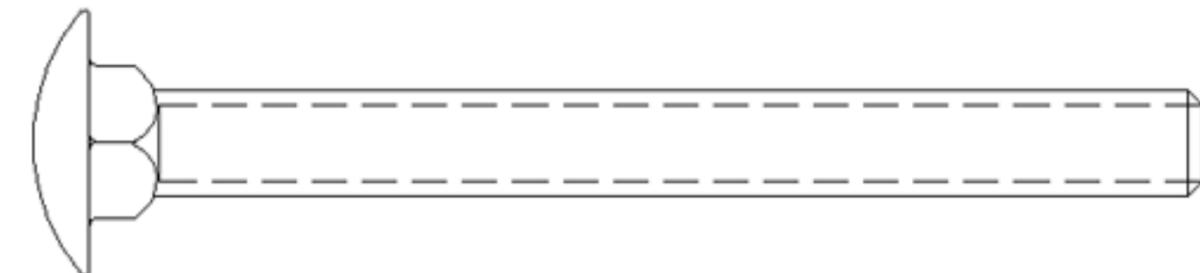
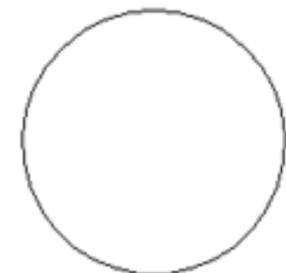
200001945
NUT LOCK HEX NYLON INSERTED M10 x 1.5



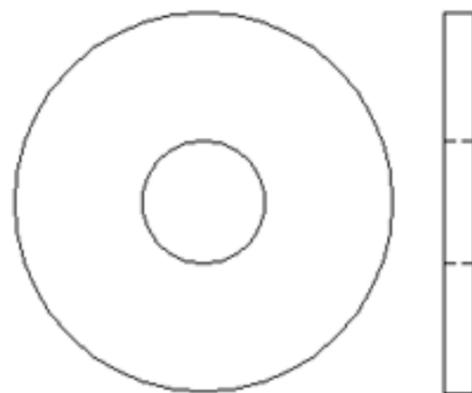
200002002
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



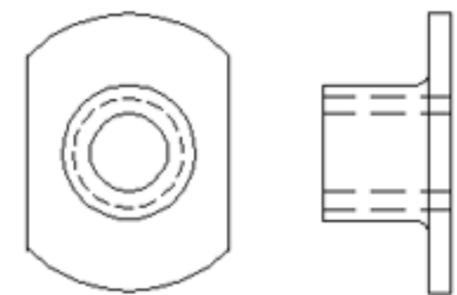
200008483
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



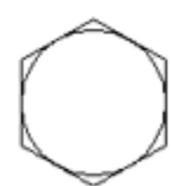
200001810
BOLT CARRIAGE M10 x 1.50 x 100mm



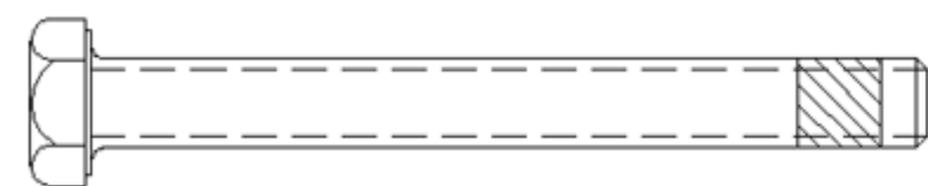
200002096
WASHER FLAT M10 34OD x 11ID x 3 mm THK



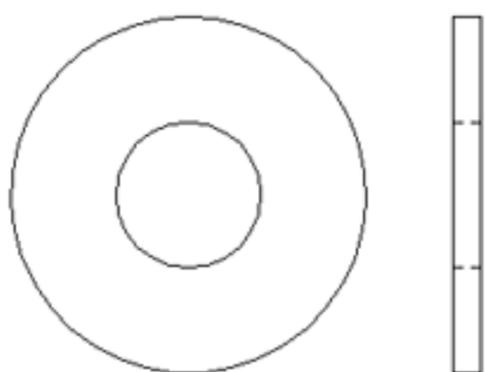
200001966
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



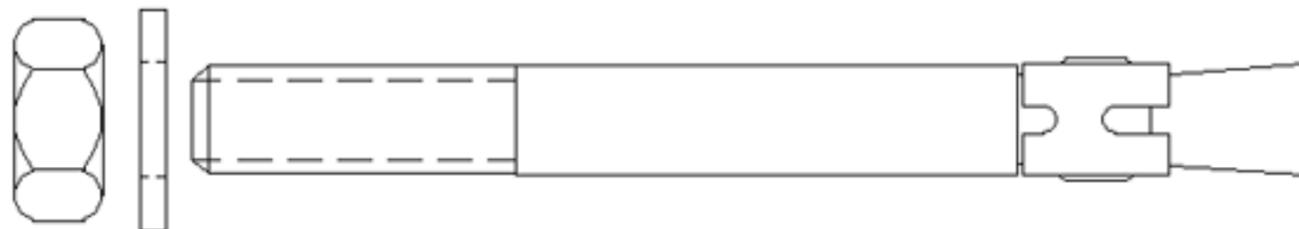
200001826
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



200001986
SCREW U-DRIVE ROUND HEAD M5 x 16mm



200002100
WASHER FLAT M11 32OD x 13ID x 2 mm THK



200001776
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



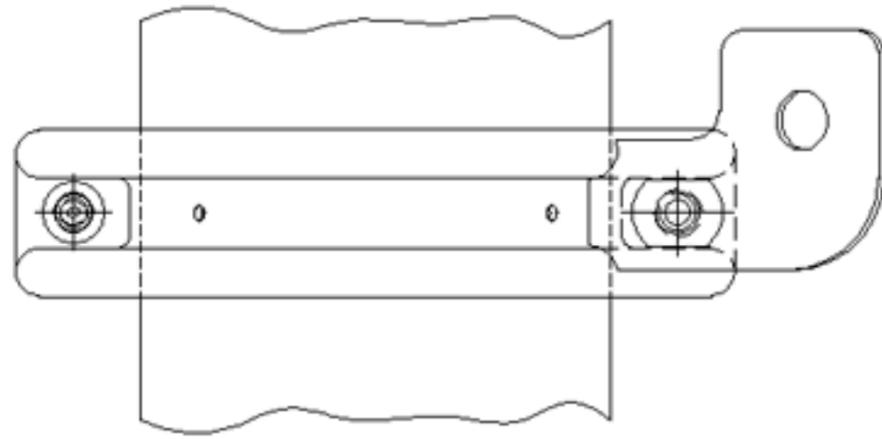
200001934
NUT LOCK HEX NYLON INSERTED M8 x 1.25



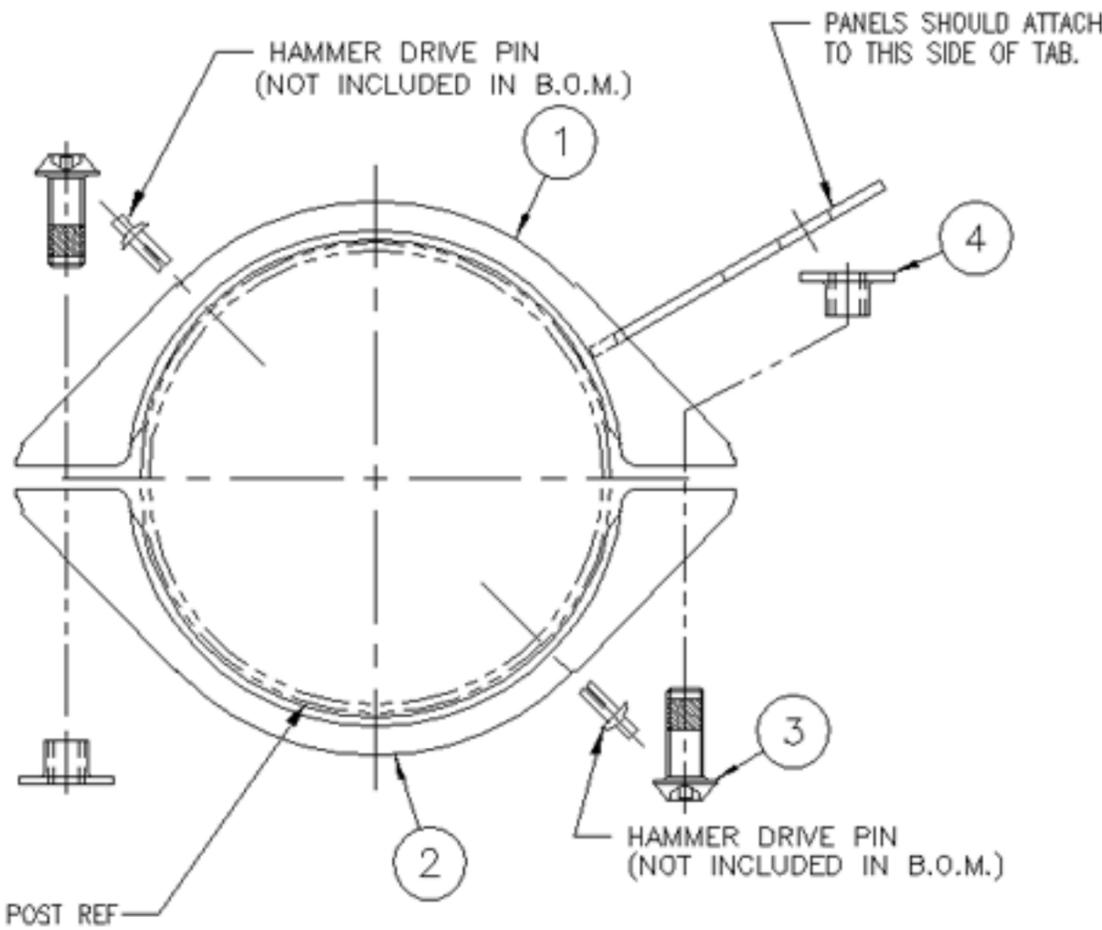
CLAMP HI-LO TAB F/KB

CLAMP HI-LO TAB F/KB

200079200



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



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB000009A

AUTHORIZED BY:
[Signature] 03AUG99

CLAMP HI-LO TAB F/KB

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

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

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

Maintenance
- CHECK ALL HARDWARE
- TOUCH UP ANY MARRED PAINT SURFACE

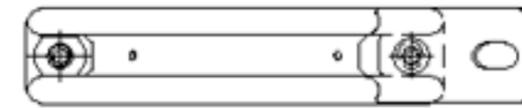
FASTENERS
FINISH: STAINLESS STEEL.

Installation Instructions

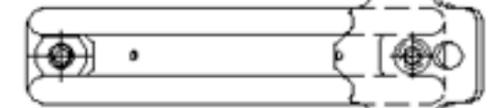
1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO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

PANEL OR WING CLAMP

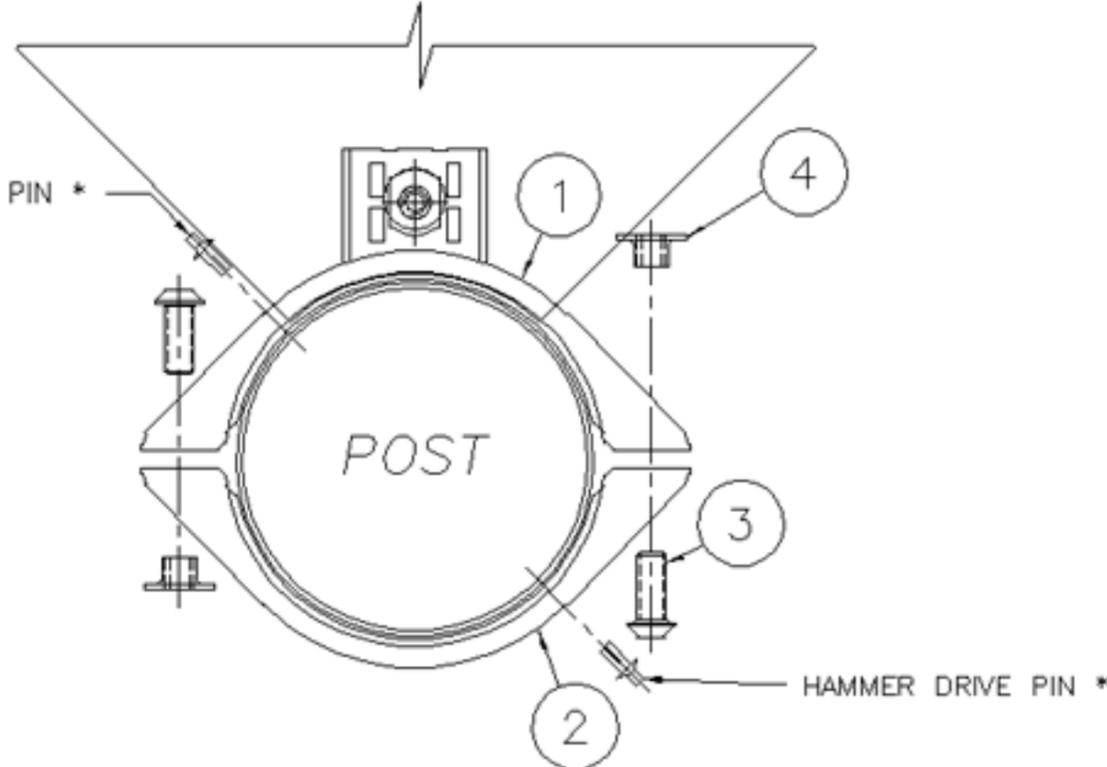
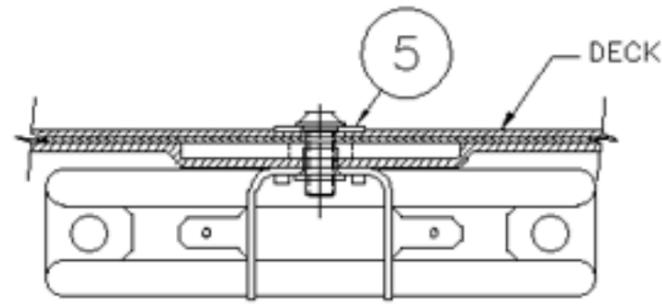
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP

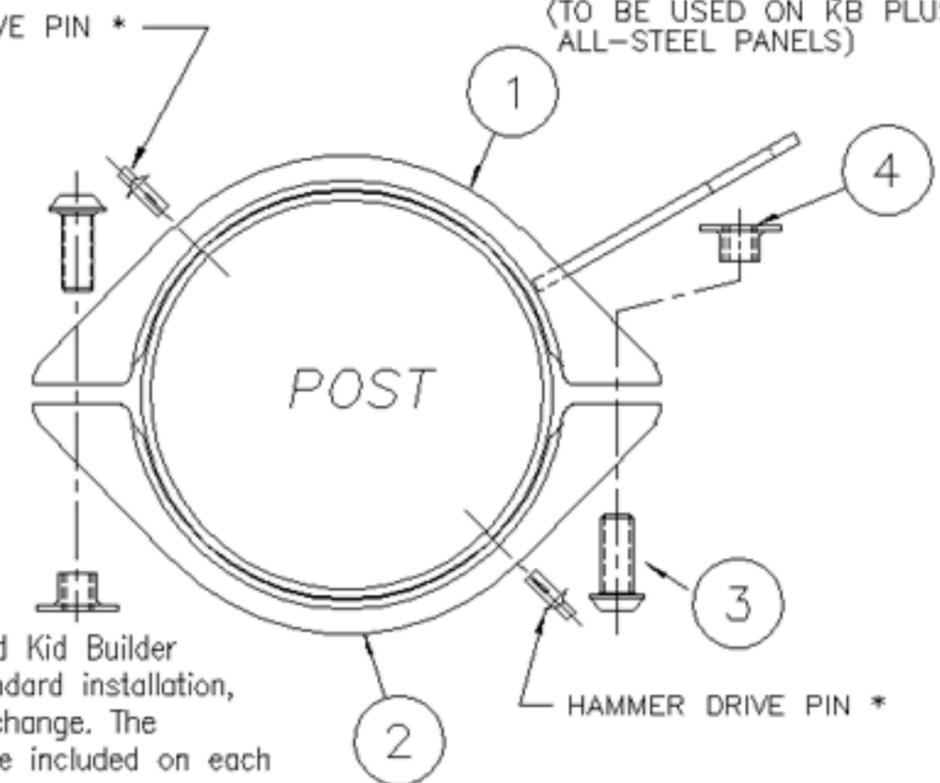


REF: WING CLAMP
(TO BE USED ON KB PLUS ALL-STEEL PANELS)



DECK CLAMP

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



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

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

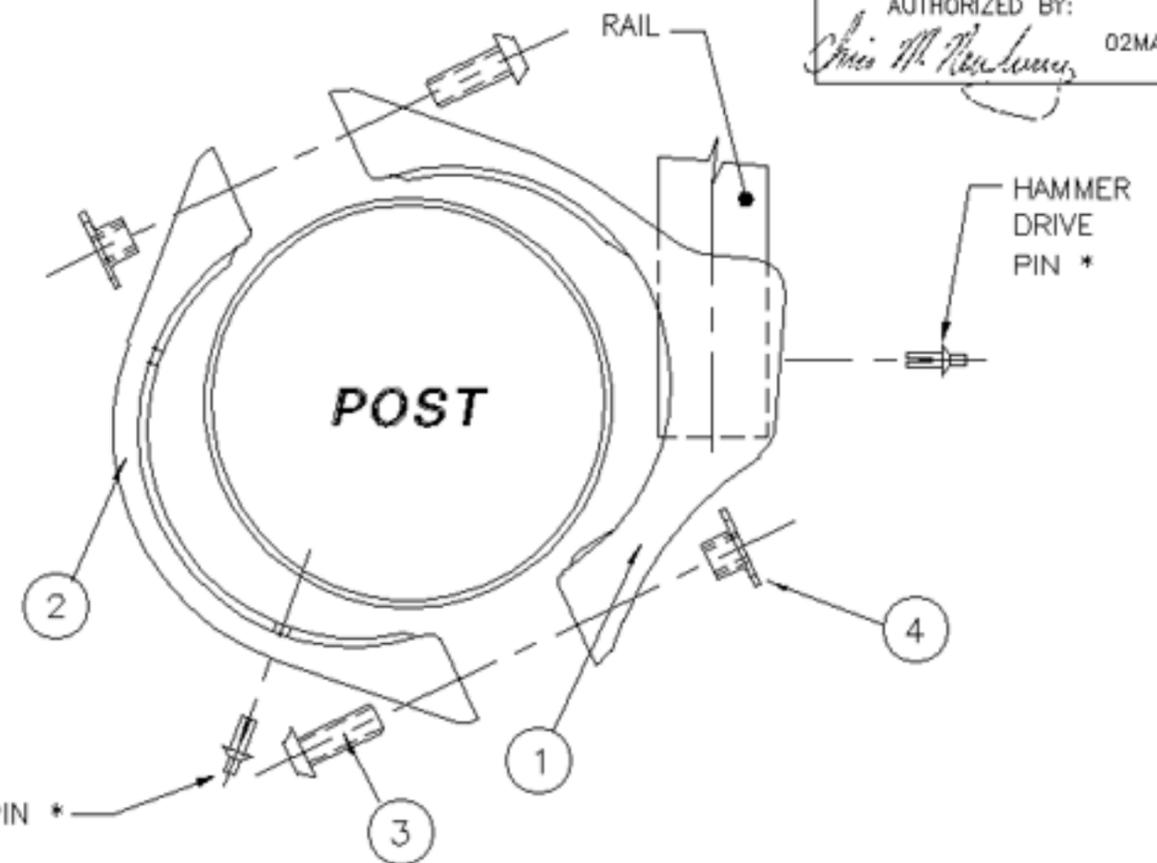
* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

AUTHORIZED BY:
Chris M. Newberry 02MAR01

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

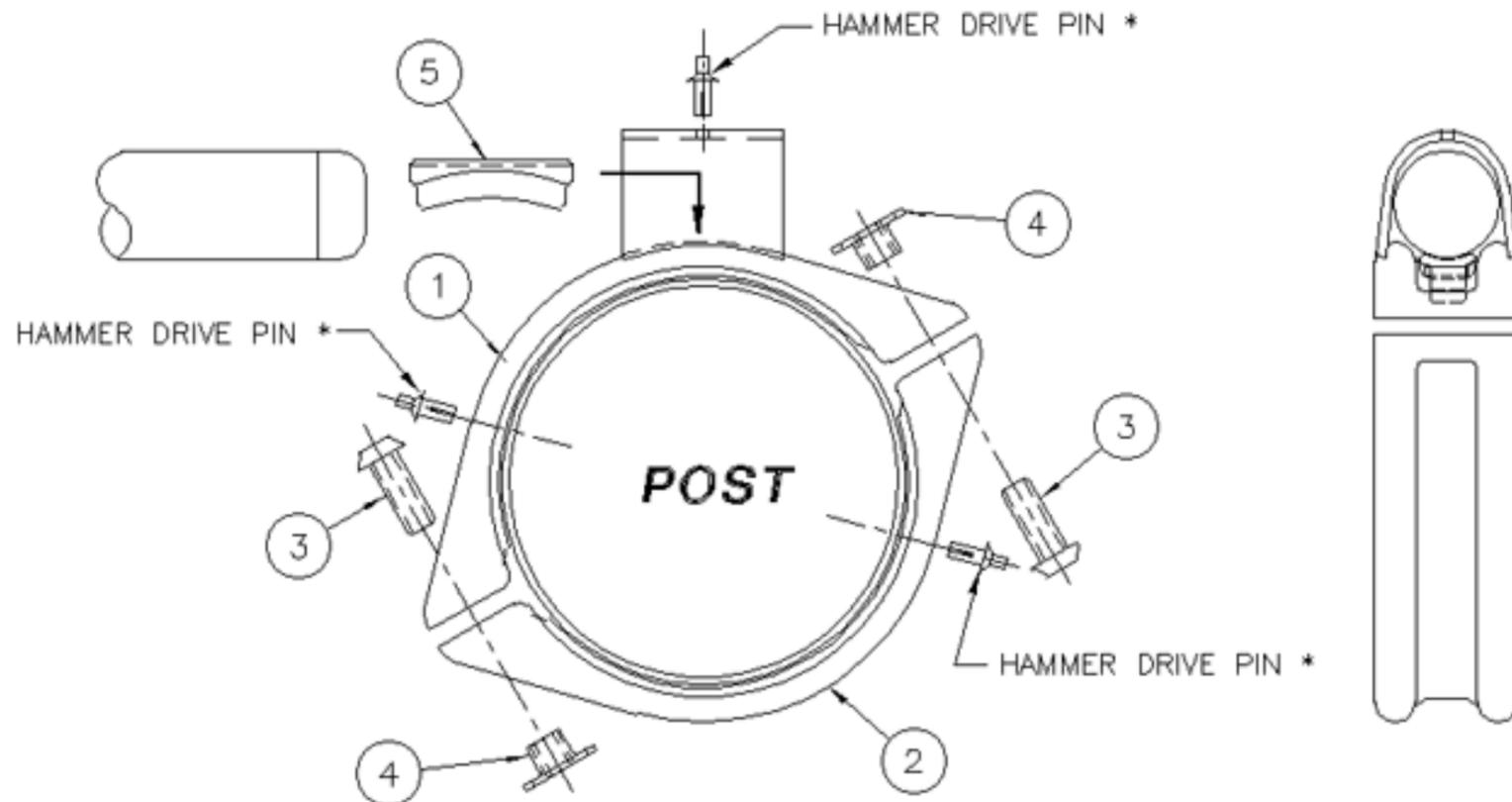
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half.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

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



30 DEG. RAIL CLAMP W/ WEDGE

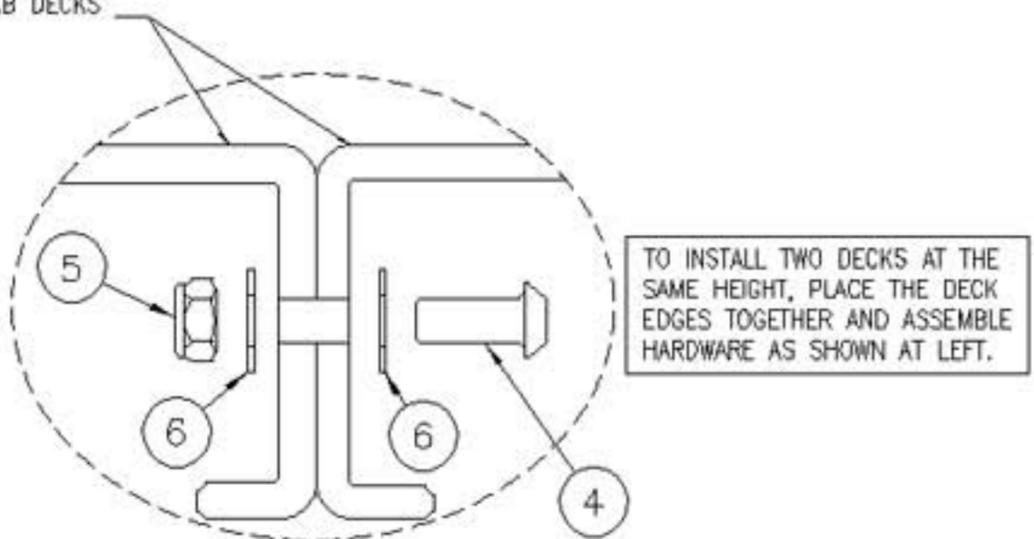
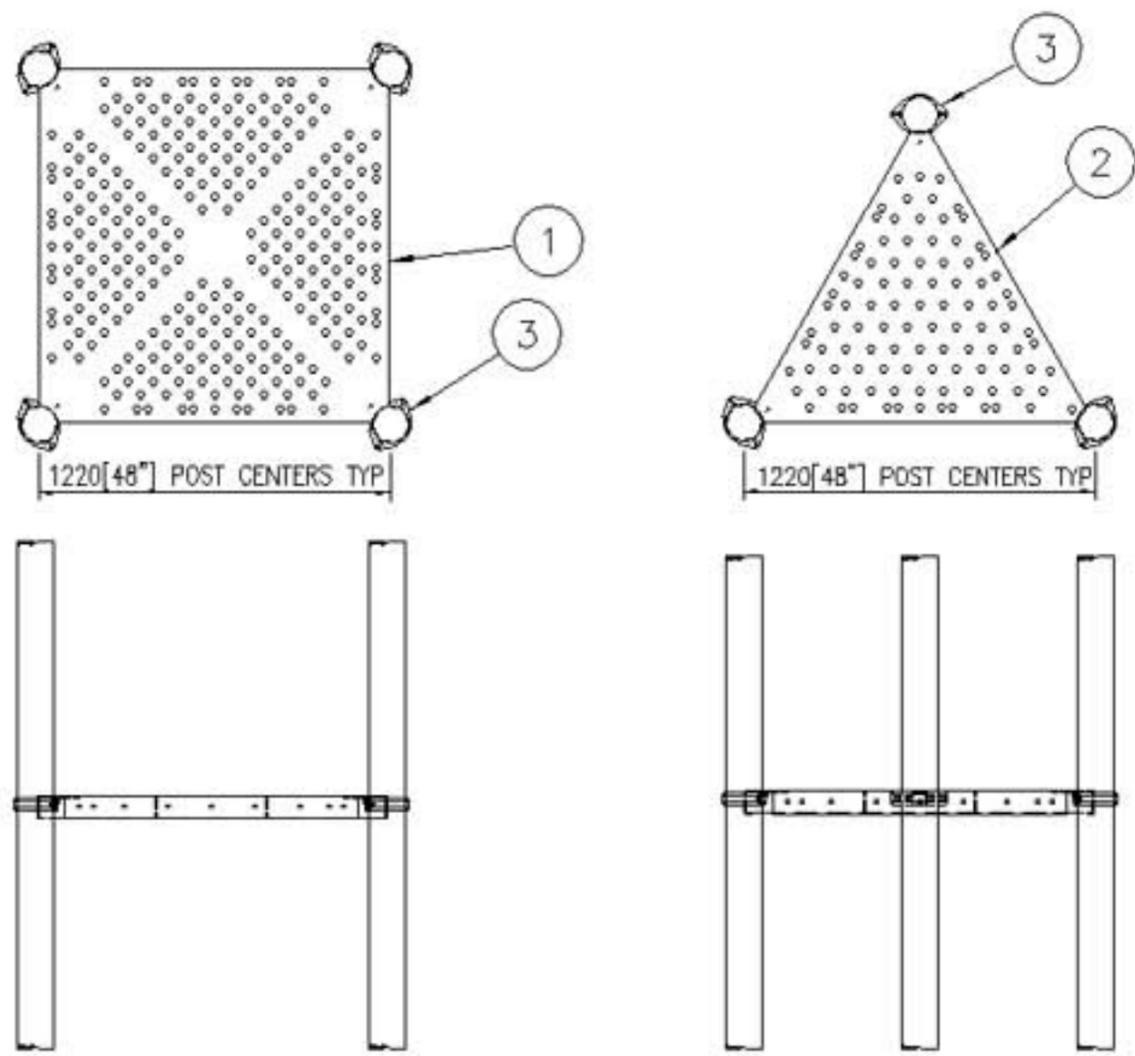
ITEM	DRG REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KB CLAMP F/SLOT	1



HOODED RAIL CLAMP

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

AUTHORIZED BY:
Eric Clinton 18MAR11



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

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

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

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

ADD-ON DECK HARDWARE BAG 200007704

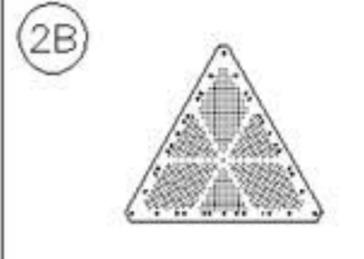
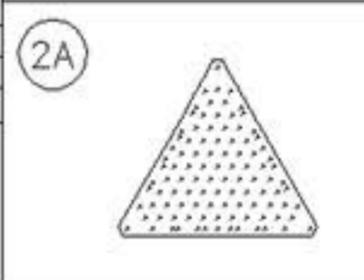
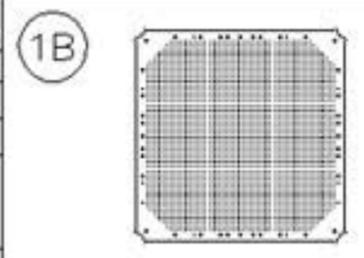
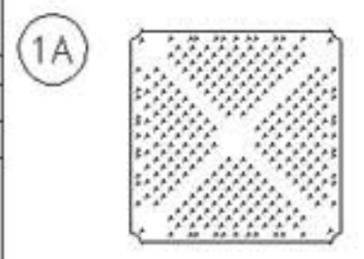
Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
6	200002079	WASHER FLAT M11 X 12 X 1.6MM	14

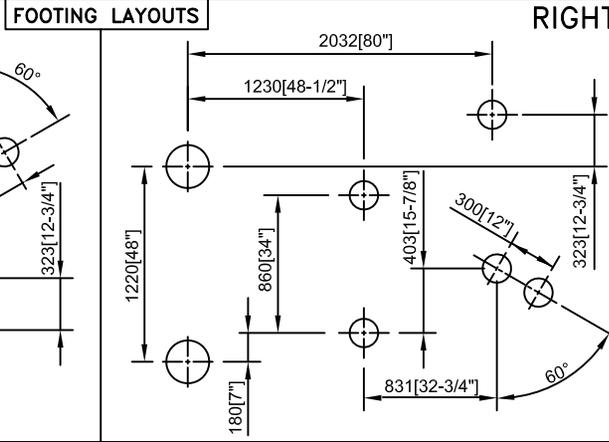
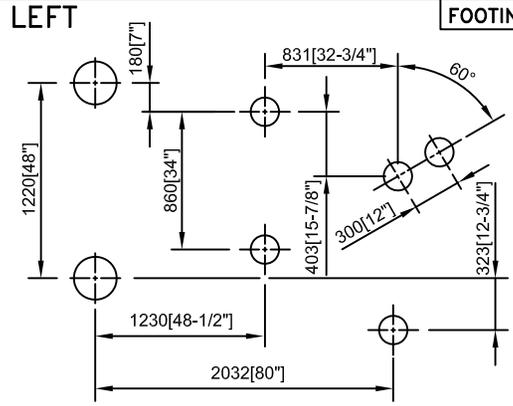
Application
AGE GROUPS (2-12 YEAR OLDS)

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

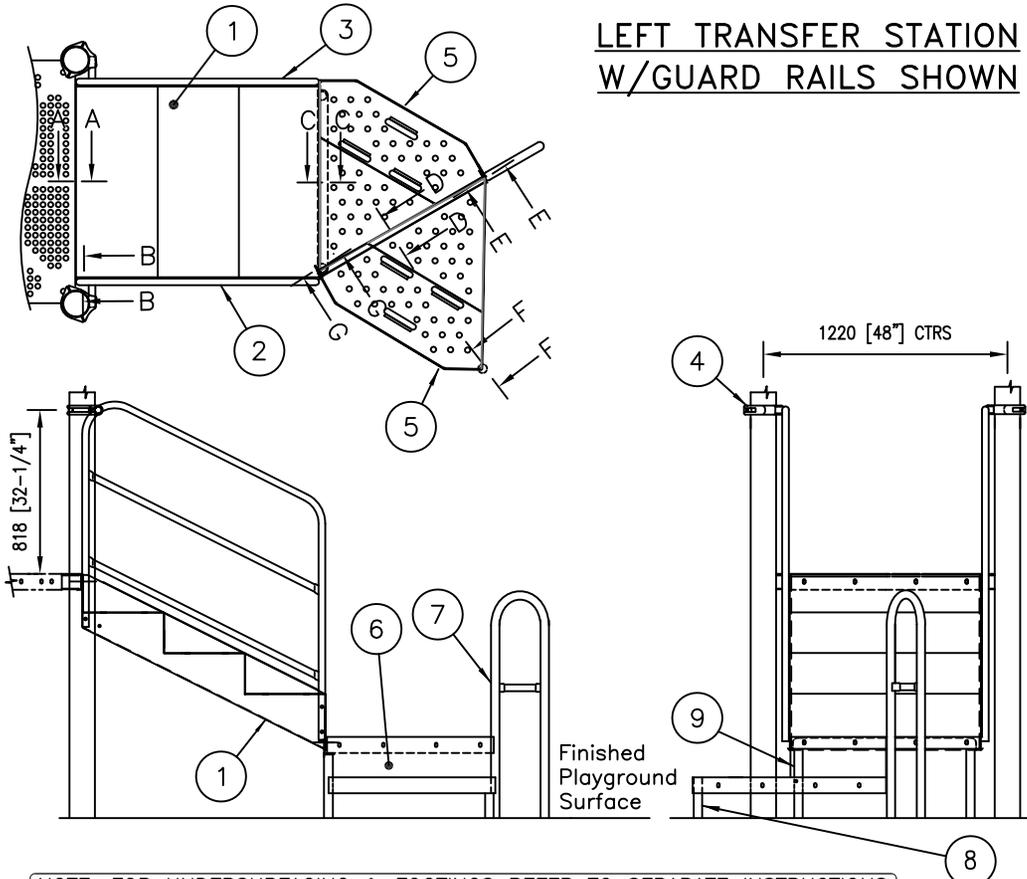
Installation Instructions

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





LEFT TRANSFER STATION W/GUARD RAILS SHOWN



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

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

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

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

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

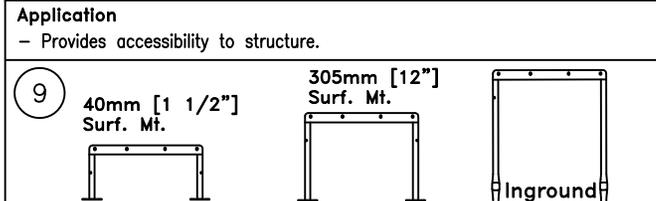
Item	Code	Description	Qty.
15	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
16	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
17	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

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

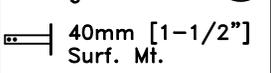
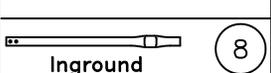
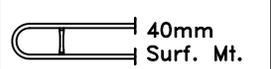
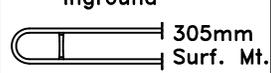
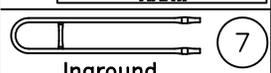
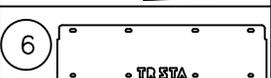
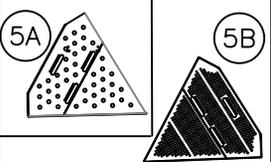
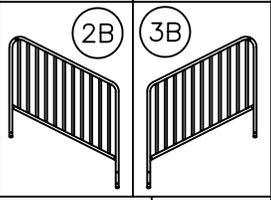
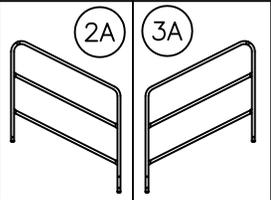
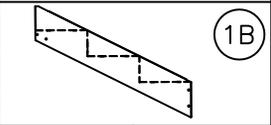
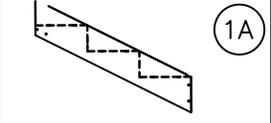
Item	Code	Description	Qty.
18	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	22
19	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	12
20	200002030	SCREW MACH BUTTONHEAD M10 X 1.5 X 30MM	4
21	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	43
22	200002133	BOLT M8 X 1.25 MALE 27.5mm	5
23	200002145	BOLT M8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

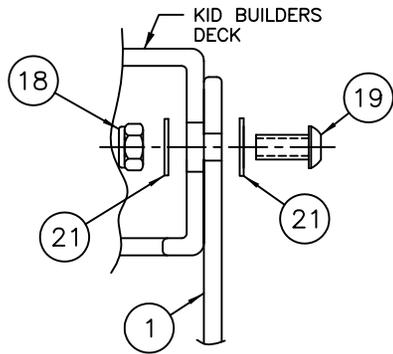
Application
- Provides accessibility to structure.

Item	Code	Description	Qty.
9	40mm [1 1/2"] Surf. Mt.	40mm [1 1/2"] Surf. Mt.	1
9	305mm [12"] Surf. Mt.	305mm [12"] Surf. Mt.	1
9	Inground	Inground	1

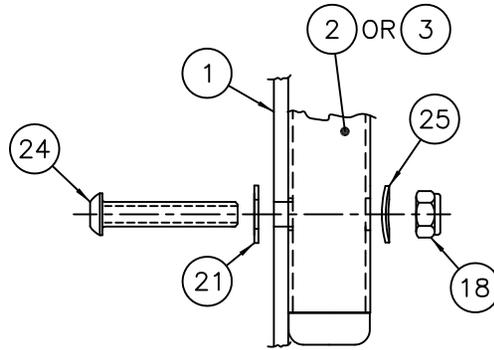


AUTHORIZED BY: 05FEB19
Steve Adkins

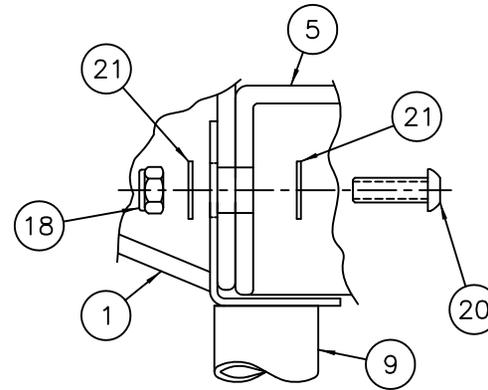




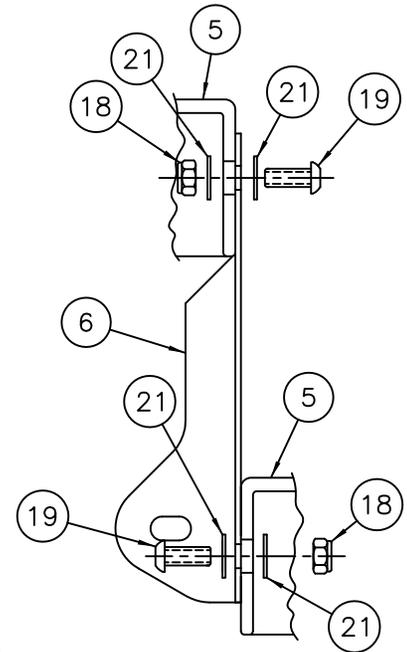
SECTION A-A
TYP 4 PL
(TOP OF STEPS TO
KB DECK ATTACHMENT)



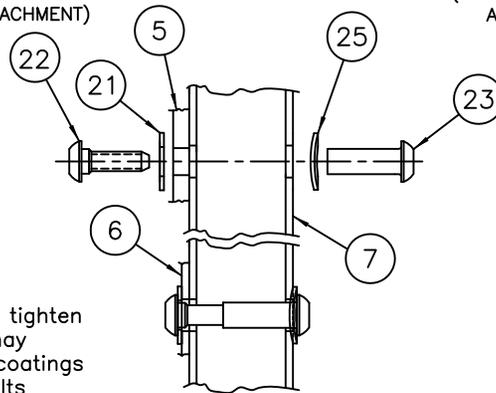
SECTION B-B
TYP 3 PL PER HANDRAIL
(HANDRAIL TO STEP
ATTACHMENT)



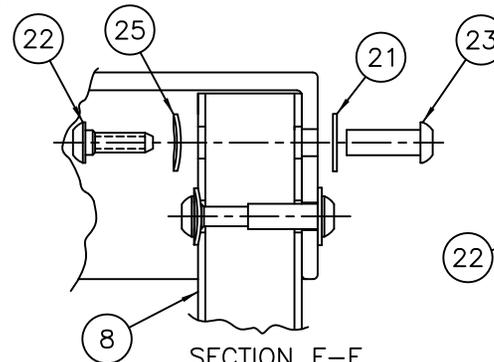
SECTION C-C
TYP 4 PL
(BOTTOM OF STEPS TO
UPPER SNO CONE DECK
AND SUPPORT STEP)



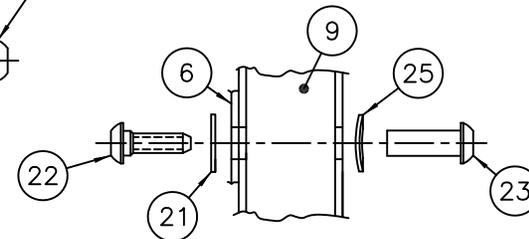
SECTION D-D
TYP 4 PL



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



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



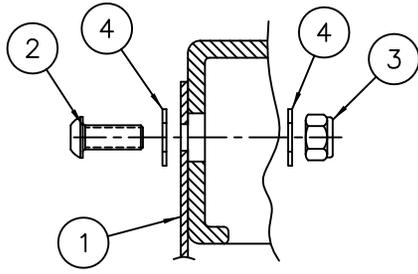
SECTION G-G
TYP 1 PL
(KICK PLATE TO STEP
SUPPORT ATTACHMENT)

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

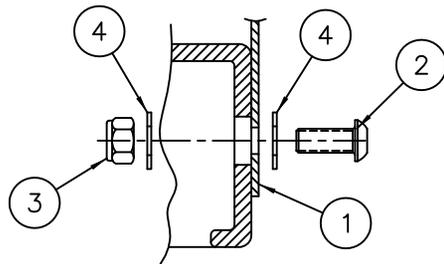
Installation Instructions

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

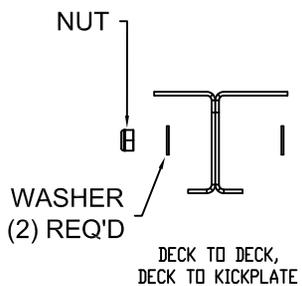
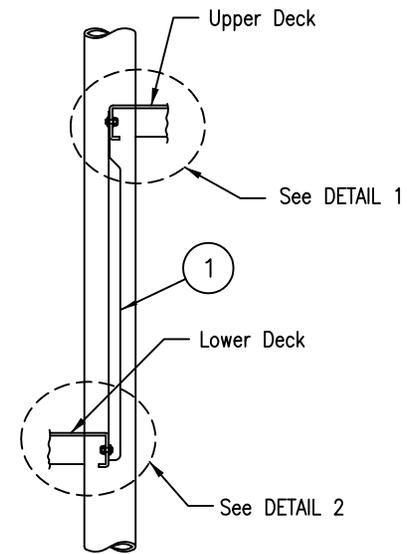
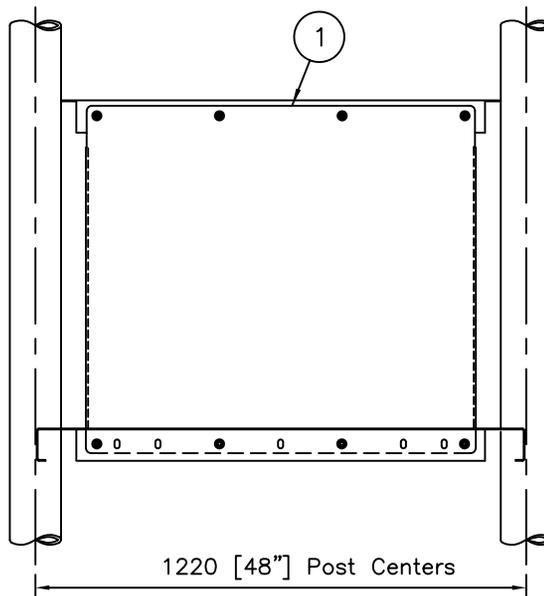
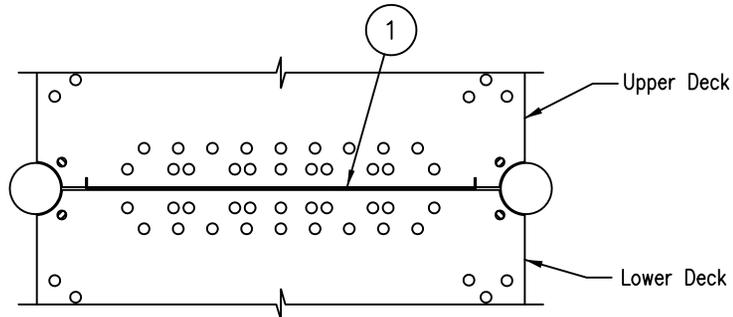
AUTHORIZED BY: 13JUN19
Matt Blisard



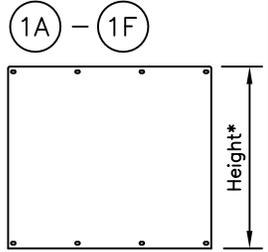
DETAIL 1
Type 4 Places



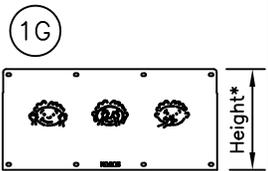
DETAIL 2
Type 4 Places



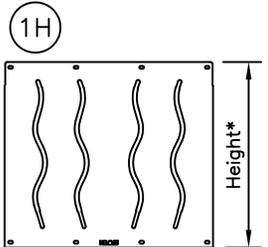
BOLT
DO NOT OVERTIGHTEN BOLTS OR DAMAGE MAY OCCUR TO THE PVC COATING ON COMPONENTS. BOLTS HAVE A THREAD LOCK PATCH. IT IS NOT NECESSARY THAT THE BOLT EXTEND INTO THE NYLON PORTION OF THE NYLOCK NUT.



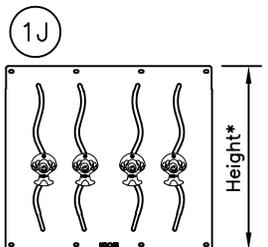
*Height will vary according to distance between decks



*Height will vary according to distance between decks



*Height will vary according to distance between decks



*Height will vary according to distance between decks



205/305/405/610/710/815 DECK TO DECK PLATES

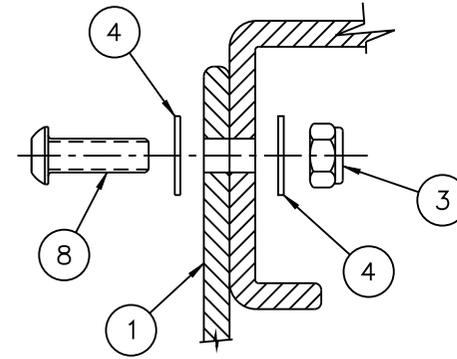
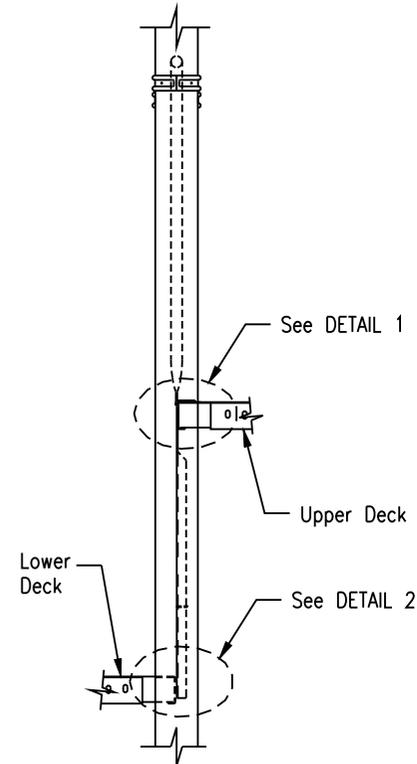
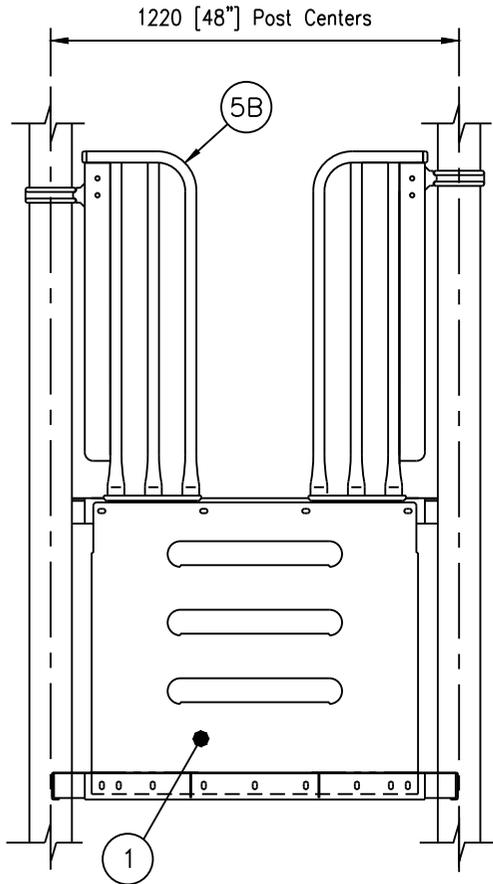
KB200001E

Sheet 2 of 2

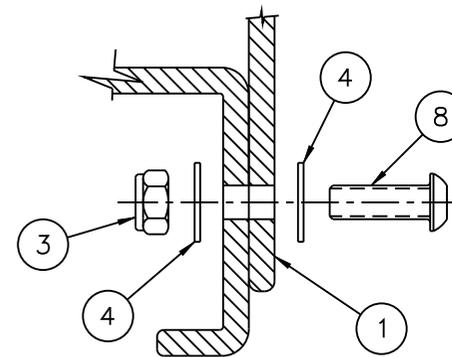
AUTHORIZED BY: 13JUN19
Matt Blisard

<p>205mm [8"] DK/DK PLATE 100001134 305mm [12"] DK/DK PLATE 100001137 405mm [16"] DK/DK PLATE 100001139 610mm [24"] DK/DK PLATE 100001142 710mm [28"] DK/DK PLATE 100001144 815mm [32"] DK/DK PLATE 100001148</p> <p>205mm [8"] DK/DK PLATE W/FACES 200200187 305mm [12"] DK/DK PLATE W/FACES 200200188 405mm [16"] DK/DK PLATE W/FACES 200200189 610mm [24"] DK/DK PLATE W/4 SLOTS 200200190 710mm [28"] DK/DK PLATE W/4 SLOTS 200200191 815mm [32"] DK/DK PLATE W/4 SLOTS 200200192 610mm [24"] DK/DK PLATE W/PARA. GUY 200200218 710mm [28"] DK/DK PLATE W/PARA. GUY 200200219 815mm [32"] DK/DK PLATE W/PARA. GUY 200200220</p>	<p>Application</p> <ul style="list-style-type: none"> - Must be used between all 203mm [8"] and 305mm [12"] increment decks. - When the lower platform exceeds 706mm [30"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 2-5 year age group. - When the lower platform exceeds 1220mm [48"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 5-12 year age group. <p>Installation Instructions</p> <ol style="list-style-type: none"> 1. Install posts and decks. Make sure the decks are level and at the proper height. 2. Attach the top of the Deck to Deck Plate to the front of the upper deck. See DETAIL 1. 3. Attach the lower portion of the Deck to Deck Plate to the lower deck. See DETAIL 2. 																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Item</th> <th style="width: 15%;">Code</th> <th style="width: 60%;">Description</th> <th style="width: 10%;">Qty.</th> </tr> </thead> <tbody> <tr> <td>1A</td> <td>200000047</td> <td>PLATE DK/DK 205MM/8" KB BRN</td> <td rowspan="10" style="text-align: center; vertical-align: middle;">1</td> </tr> <tr> <td>1B</td> <td>200000049</td> <td>PLATE DK/DK 305MM/12" KB BRN</td> </tr> <tr> <td>1C</td> <td>200000051</td> <td>PLATE DK/DK 405MM/16" KB BRN</td> </tr> <tr> <td>1D</td> <td>200000053</td> <td>PLATE DK/DK 610MM/24" KB BRN</td> </tr> <tr> <td>1E</td> <td>200000056</td> <td>PLATE DK/DK 710MM/28" KB BRN</td> </tr> <tr> <td>1F</td> <td>200000058</td> <td>PLATE DK/DK 815MM/32" KB BRN</td> </tr> <tr> <td>1G</td> <td>-</td> <td>PLATE DK/DK W/FACES F/KB</td> </tr> <tr> <td>1H</td> <td>-</td> <td>PLATE DK/DK W/4 SLOTS F/KB</td> </tr> <tr> <td>1J</td> <td>-</td> <td>PLATE DK/DK W/PARACHUTE GUY F/KB</td> </tr> <tr> <td colspan="4" style="text-align: center;"> <p>HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706</p> </td> </tr> <tr> <td>2</td> <td>200002018</td> <td>SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm</td> <td style="text-align: center;">8</td> </tr> <tr> <td>3</td> <td>200001945</td> <td>NUT LOCK HEX NYLON INSERTED M10 X 1.5</td> <td style="text-align: center;">8</td> </tr> <tr> <td>4</td> <td>200002079</td> <td>WASHER FLAT M11 23 X 12 X 1.6mm</td> <td style="text-align: center;">16</td> </tr> </tbody> </table>	Item	Code	Description	Qty.	1A	200000047	PLATE DK/DK 205MM/8" KB BRN	1	1B	200000049	PLATE DK/DK 305MM/12" KB BRN	1C	200000051	PLATE DK/DK 405MM/16" KB BRN	1D	200000053	PLATE DK/DK 610MM/24" KB BRN	1E	200000056	PLATE DK/DK 710MM/28" KB BRN	1F	200000058	PLATE DK/DK 815MM/32" KB BRN	1G	-	PLATE DK/DK W/FACES F/KB	1H	-	PLATE DK/DK W/4 SLOTS F/KB	1J	-	PLATE DK/DK W/PARACHUTE GUY F/KB	<p>HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706</p>				2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	8	3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8	4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	16	
Item	Code	Description	Qty.																																														
1A	200000047	PLATE DK/DK 205MM/8" KB BRN	1																																														
1B	200000049	PLATE DK/DK 305MM/12" KB BRN																																															
1C	200000051	PLATE DK/DK 405MM/16" KB BRN																																															
1D	200000053	PLATE DK/DK 610MM/24" KB BRN																																															
1E	200000056	PLATE DK/DK 710MM/28" KB BRN																																															
1F	200000058	PLATE DK/DK 815MM/32" KB BRN																																															
1G	-	PLATE DK/DK W/FACES F/KB																																															
1H	-	PLATE DK/DK W/4 SLOTS F/KB																																															
1J	-	PLATE DK/DK W/PARACHUTE GUY F/KB																																															
<p>HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706</p>																																																	
2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	8																																														
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8																																														
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	16																																														

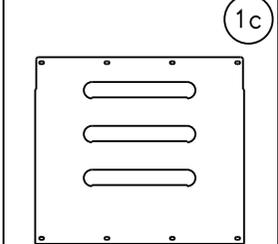
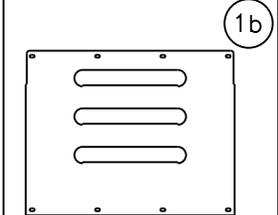
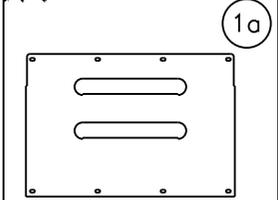
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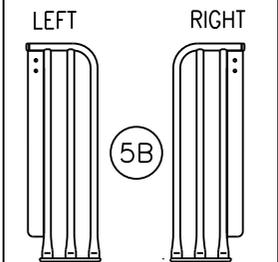
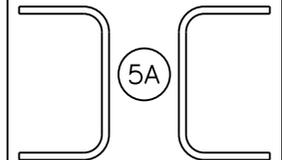
DETAIL 1
Typ 4 Places



DETAIL 2
Typ 4 Places



HANDHOLD LOOPS



SAFETY LOOPS



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

200002587
KB200004D-S2
SHEET 2 OF 2

AUTHORIZED BY: 16SEPT10

Angela Facer

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

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

**HDWR BAG F/KB STEEL LADDER PANELS
200007705**

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

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

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

**HDWR BAG F/KB STEEL LADDER PANELS
200007705**

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

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

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

Application

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

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

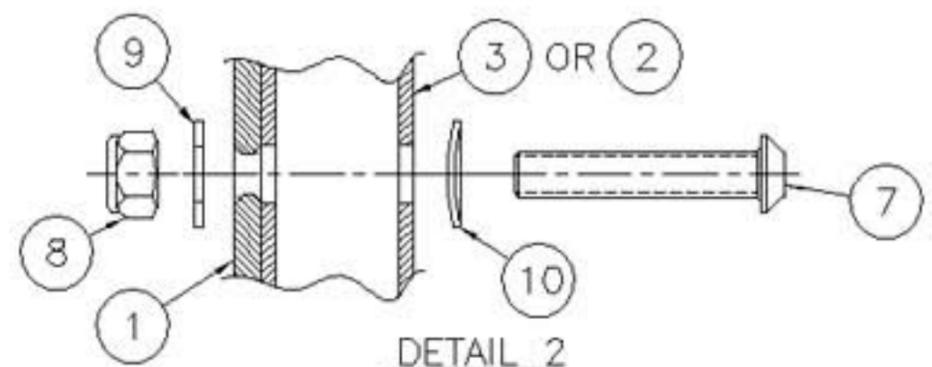
Installation Instructions

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

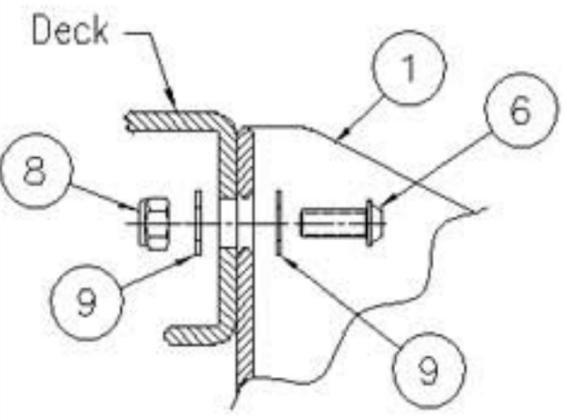
2. Attach the top of the Ladder Panel to the front of the upper deck. See DETAIL 1.

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

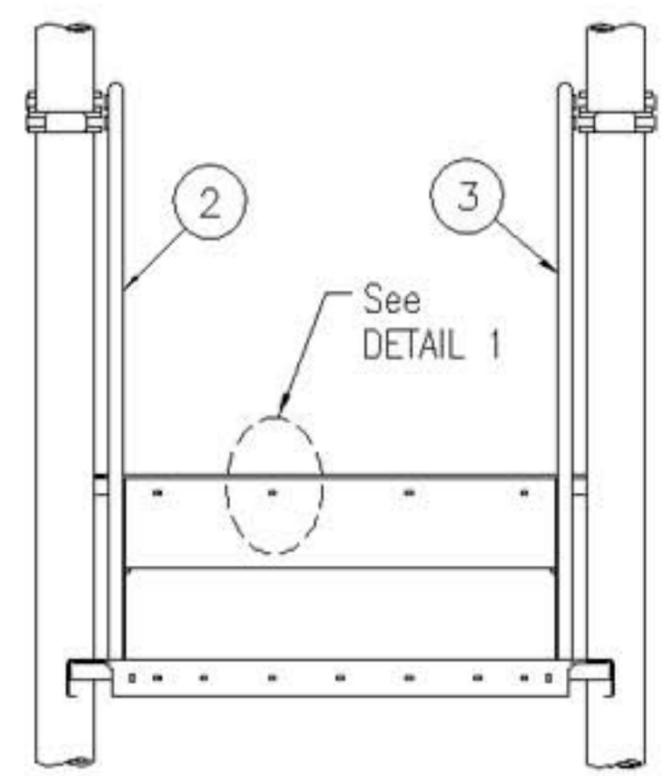
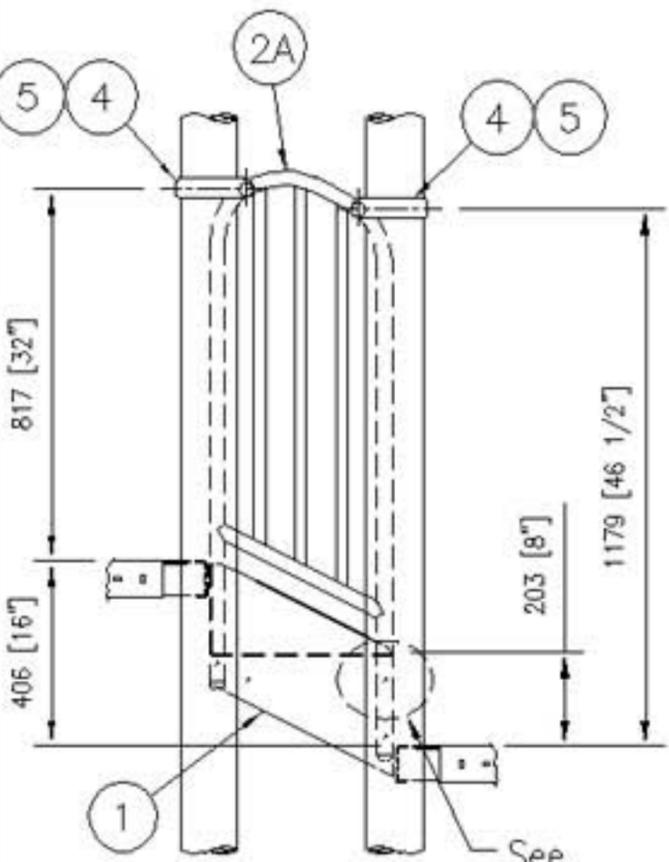
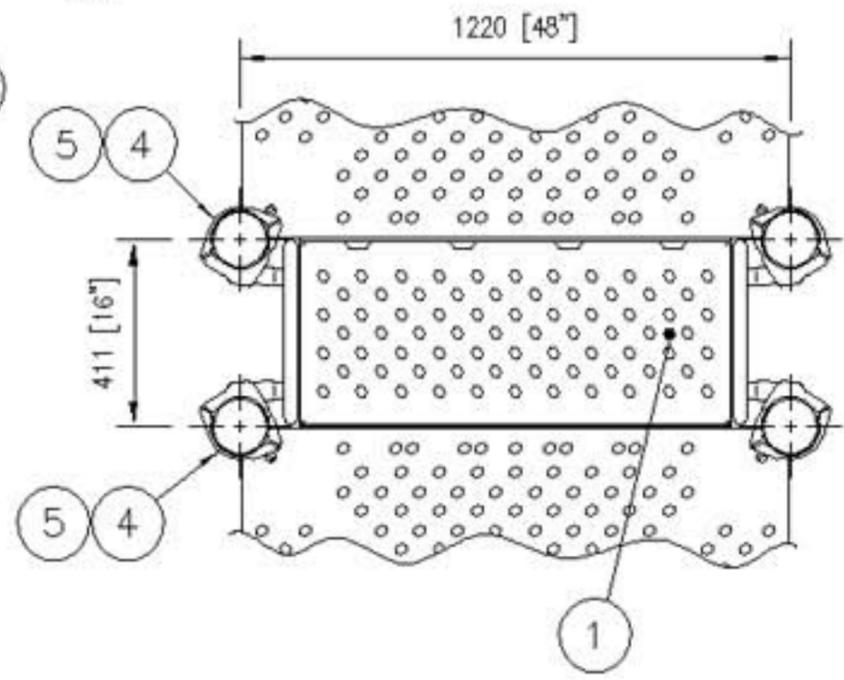
AUTHORIZED BY: 18MAR08
Eric L. Claudus



DETAIL 2
Typ 6 Places



DETAIL 1
Typ 8 Places



KB STEPS DK/DK 406MM W/SAFETY RAILS(LG) 200201306
KB STEPS DK/DK 406MM W/SFTY RL(SM.HOLE) 200201307

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2A	-	SAFETY RAIL LFT.KB 406 DK/DK.	1
3A	-	SAFETY RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

KB STEPS DK/DK 406MM W/GUARD RAILS 200201304
KB STEPS DK/DK 406MM W/GRD RL(SM.HOLE) 200201305

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2B	-	GUARD RAIL LFT.KB 406 DK/DK.	1
3B	-	GUARD RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

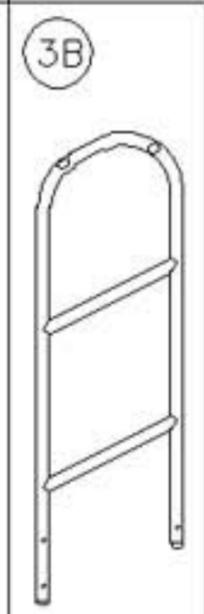
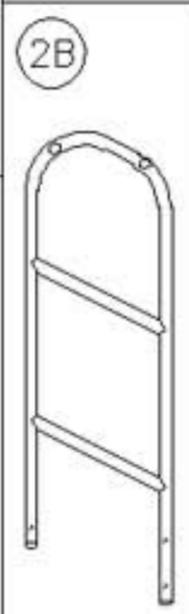
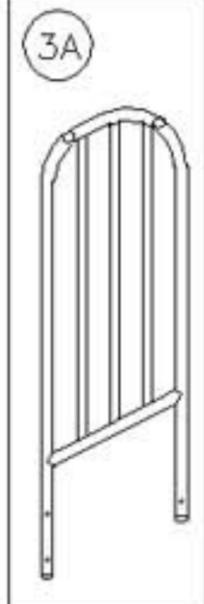
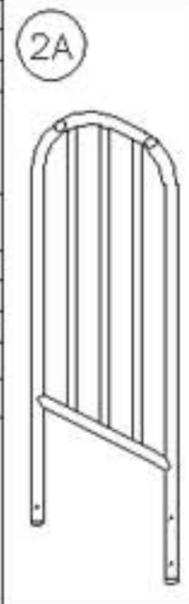
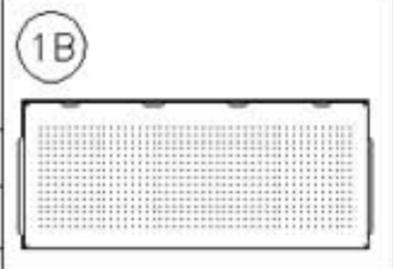
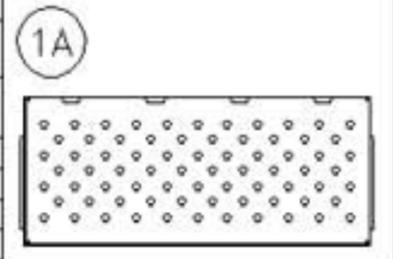
HDWR BAG F/KB 406MM DECK TO DECK STEPS
200041200

Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
7	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	6
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	14
9	200002079	WASHER FLAT M11 23 X 12 X 1.6	22
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	6

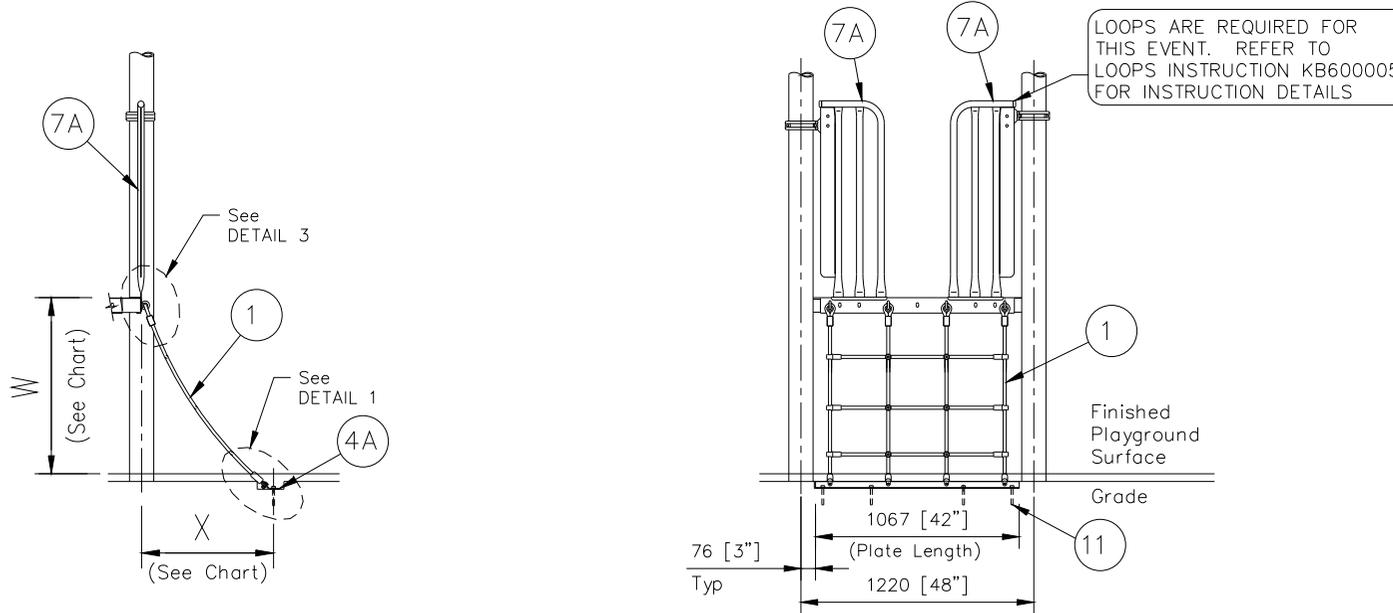
Application
 -For use between two decks which are 406mm [16"] different in height.
 - If the component includes guard rails and is predominantly used by 5-12 year olds, the upper deck must be 1220mm [48"] or less.
 - If using guard rails and it will be predominantly used by 2-5 year olds, the upper deck must be 762mm [30"] or less.
 - Safety Rails are acceptable in all applications.

Installation Instructions

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



Joe Pritchett

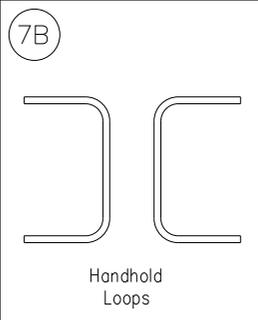
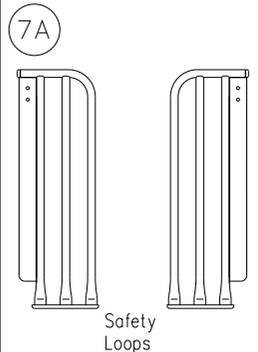
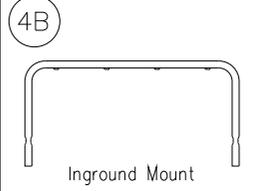
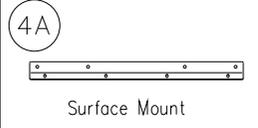
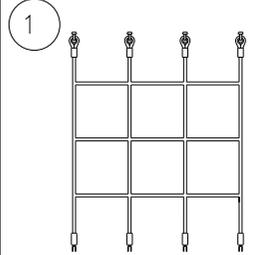


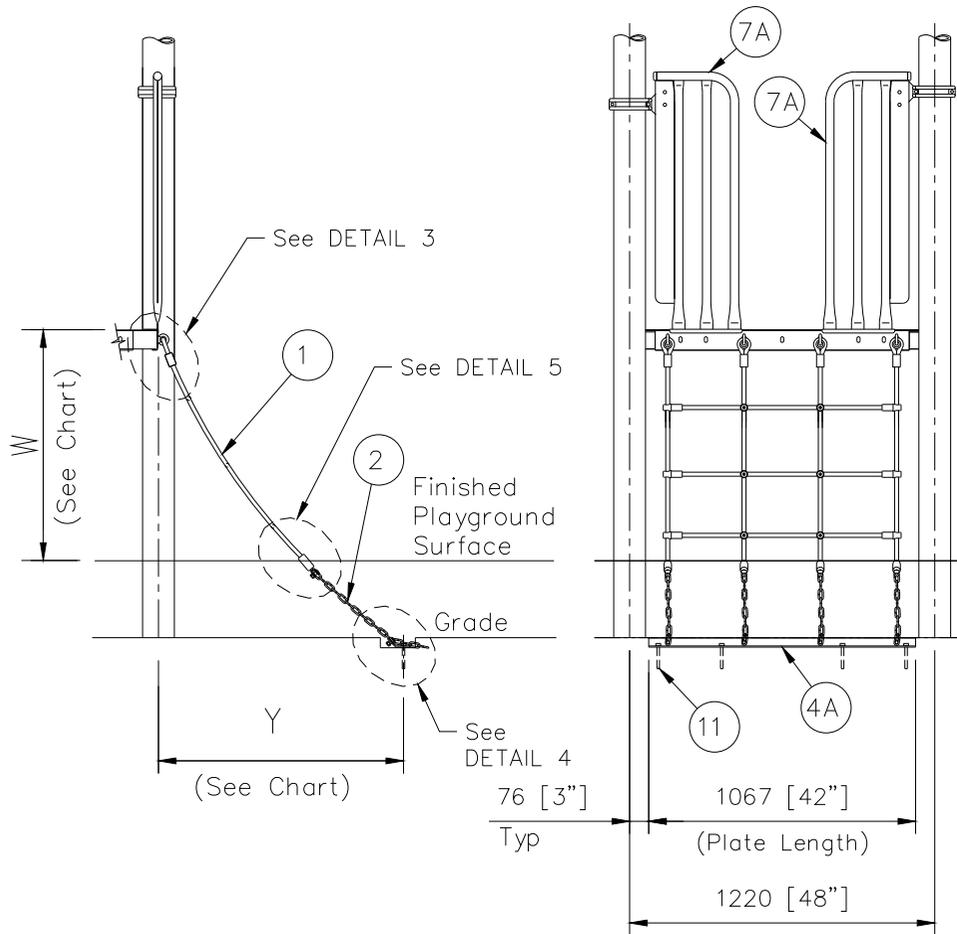
Surface Mount, 40mm [1 1/2"] Ground Cover

TABLE 1: FOOTING LOCATIONS

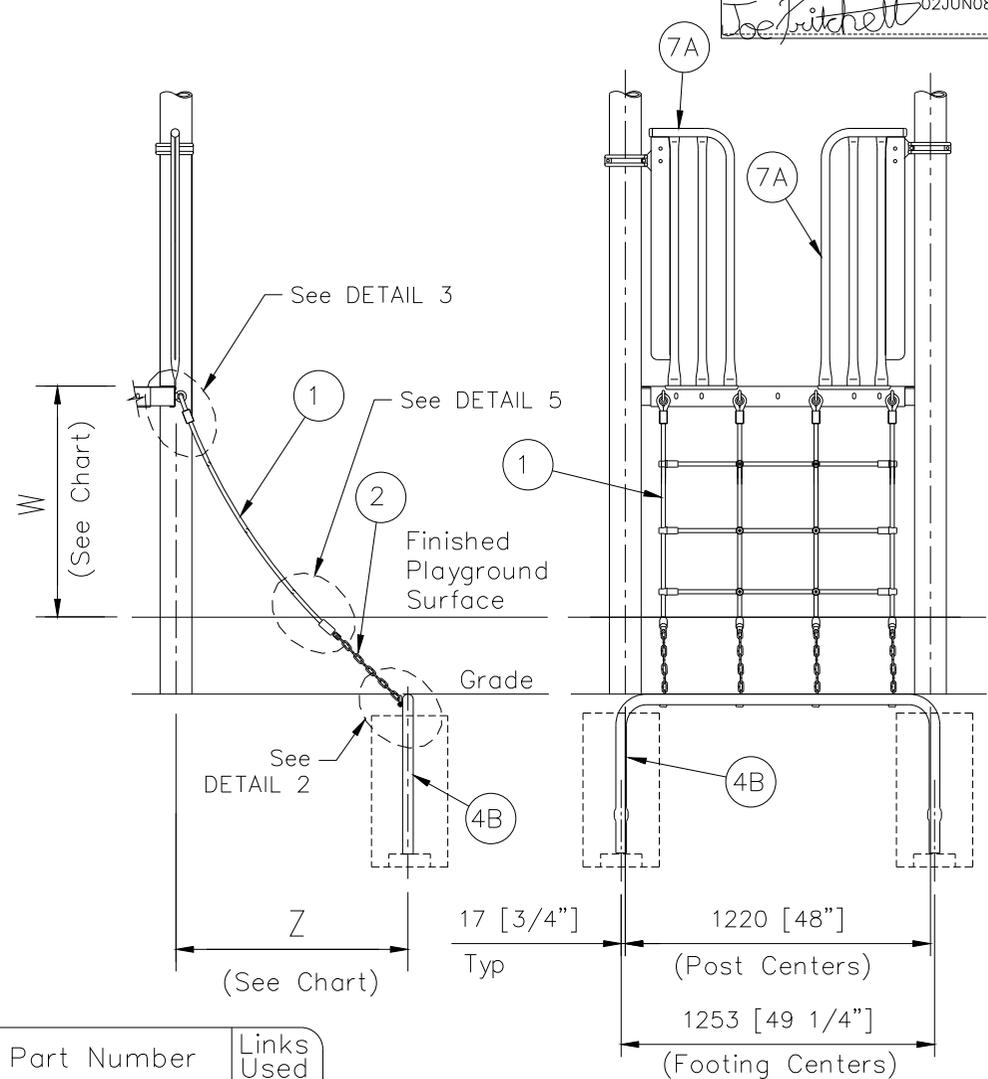
Deck Height W	Surface Mount X	Surface Mount Y (see Sheet 2)	Inground Mount Z (see Sheet 2)
915 [36"]	702 [27-5/8"]	976 [38-3/8"]	955 [37-3/5"]
1220 [48"]	1161 [45-1/2"]	1818 [71-1/2"]	1798 [70-3/4"]
1422 [56"]	858 [33-3/4"]	1344 [53"]	1327 [52-1/4"]
1625 [64"]	1303 [51-1/4"]	1756 [69-1/4"]	1740 [68-1/2"]
1830 [72"]	955 [37-1/2"]	1269 [50"]	1230 [48-1/2"]

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS





Surface Mount, 305mm [12"] Ground Cover

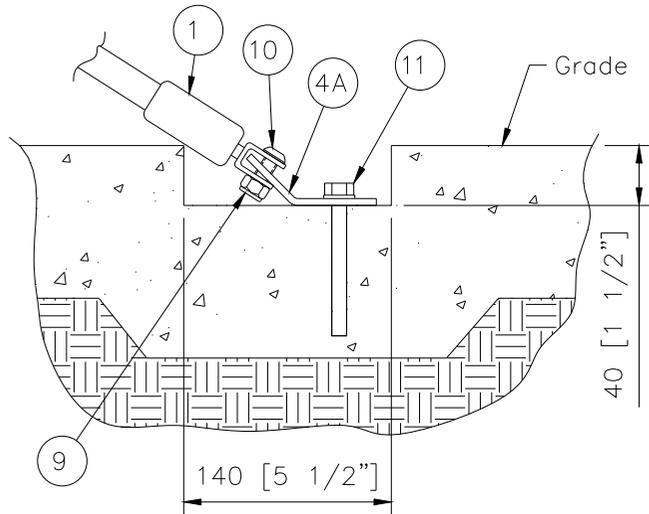


Inground Mount

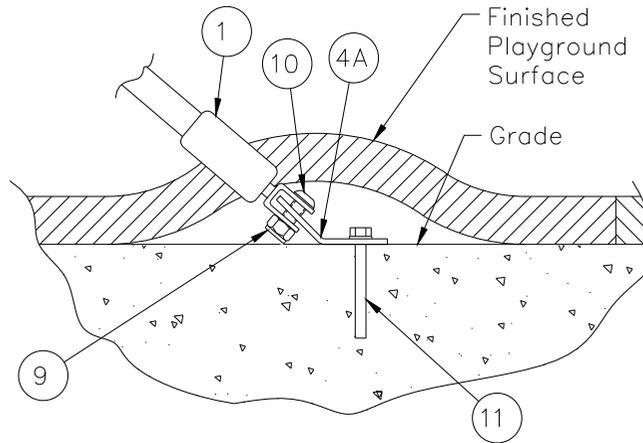
Deck Height W	Chain Part Number	Links Used
915 [36"]	200140295 (11 Links)	11
1220 [48"]	200140296 (21 Links)	21
1422 [56"]	200140296 (21 Links)	17
1625 [64"]	200140298 (16 Links)	16
1830 [72"]	200140298 (16 Links)	12

TABLE 2: CHAIN USAGE FOR 305mm [12"] GROUND COVER

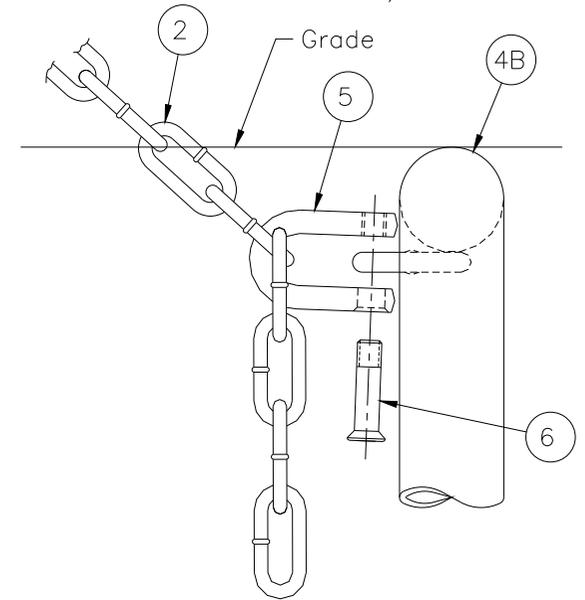
AUTHORIZED BY:
Joe Pritchett
02JUN08



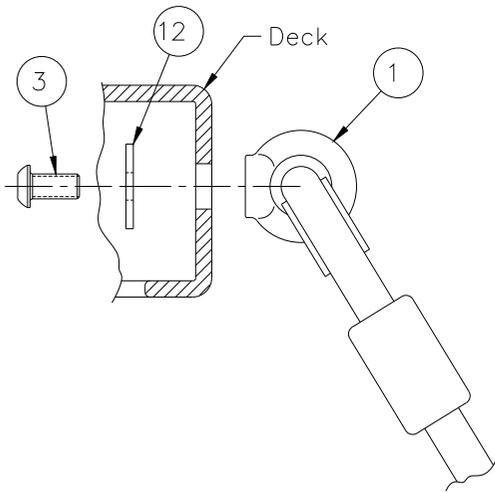
DETAIL 1 (OPTION A)
(Surface Mount-Surfacing)
Typ 4 Places



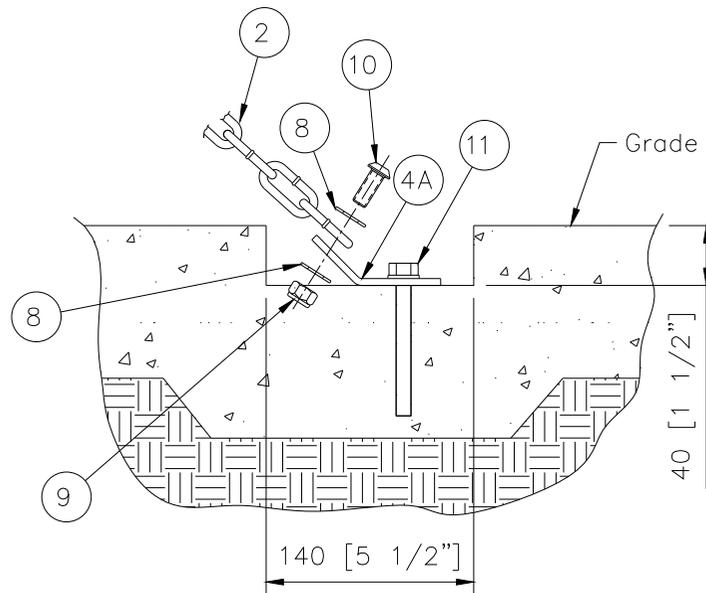
DETAIL 1 (OPTION B)
(Surface Mount-Surfacing)
Typ 4 Places



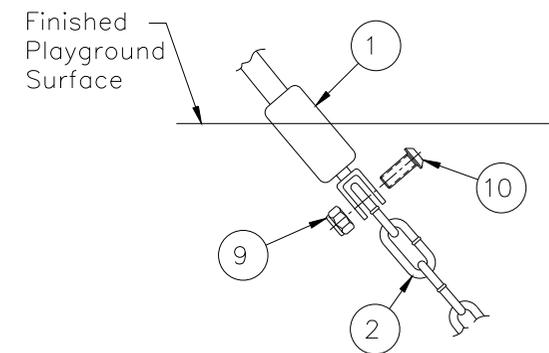
DETAIL 2
(Inground Mount)
Typ 4 Places



DETAIL 3
Typ 4 Places



DETAIL 4
(Surface Mount-Loose Fill)
Typ 4 Places



DETAIL 5
Typ 4 Places



CLIMBING NETS

200002640
KB300021D-S4
Sheet 4 of 4

CLIMBING NET 915mm [36"] RED/BLU W/SAFE LOOPS
200200020

CLIMBING NET 915mm [36"] TAN/GRN W/SAFE LOOPS
200200021

CLIMBING NET 1220mm [48"] RED/BLU W/SAFE LOOPS
200200024

CLIMBING NET 1220mm [48"] TAN/GRN W/SAFE LOOPS
200200025

CLIMBING NET 1625mm [64"] RED/BLU W/SAFE LOOPS
200200028

CLIMBING NET 1625mm [64"] TAN/GRN W/SAFE LOOPS
200200029

CLIMBING NET 915mm [36"] RED/BLU W/HAND LOOPS
200200022

CLIMBING NET 915mm [36"] TAN/GRN W/HAND LOOPS
200200023

CLIMBING NET 1220mm [48"] RED/BLU W/HAND LOOPS
200200026

CLIMBING NET 1220mm [48"] TAN/GRN W/HAND LOOPS
200200027

Application

Cannot be used as sole access

AUTHORIZED BY: 04JUN08
Joe Pritchett

Surface mount version for deck heights between 915mm [36"] and 1829mm [72"]

Inground mount version for deck heights between 915mm [36"] and 1829mm [72"]

Never install a climber without loops

ASTM requires all hardware to be below ground surfacing

Any installation over 1422mm [56"] must have safety loops

Installation Instructions

1. Prepare footings. Consult TABLE 1 for footing locations for your particular deck height.

2. Install Loops. See Hand/Safety loops instructions KB600005 for details.

3. Attach the bottom of the net to the anchoring device as shown in DETAIL 1 (Option A or B) for surface mount, and DETAIL 2 for inground mount. Installations requiring 305mm [12"] ground cover will require the use of a chain (see DETAILS 4 & 5). Consult TABLE 2 for chain usage. Some deck heights will not use 4 links of the chain supplied (see DETAIL 2).

4. Attach the top of the net to the deck edge as shown in DETAIL 3.

5. For surface mount, attach anchor plate to concrete using anchor bolts; for inground mount install tube using the standard inground footing (refer to footing instruction in front of manual). Consult the chart at left for footing locations for your particular deck height. Make sure the anchoring device is installed below grade (Option A), will be covered with ground surfacing (Option B), or that the tube is completely covered with surfacing.

6. Install resilient ground surfacing around climber. Surfacing shall extend in all directions at least 1830mm [72"] from the point at which the climber enters the surfacing.

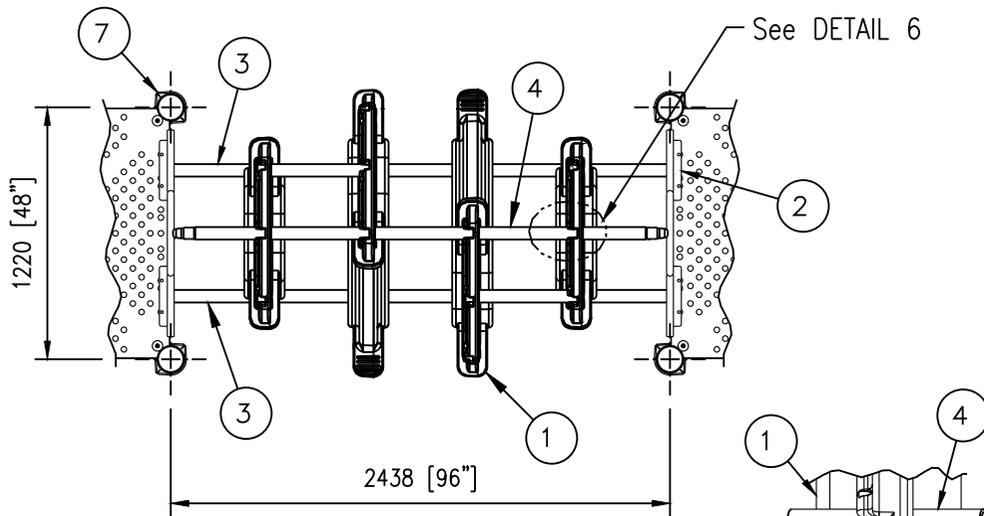
Item	Code	Description	*Qty.	Item	Code	Description	*Qty.
1	-	NET F/ROPE CLIMBER	1	1	-	NET F/ROPE CLIMBER	1
2	-	CHAIN F/ROPE CLIMBER (40mm GROUND COVER ONLY)	4	2	-	CHAIN F/ROPE CLIMBER (40mm GROUND COVER ONLY)	4
3	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4	3	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4
4A	200009458	PLATE GROUND F/KK CHAIN NET 40MM	1	4A	200009458	PLATE GROUND F/KK CHAIN NET 40MM	1
4B	200001714**	BAR GROUND BRN F/KB CHAIN NET CLIMBER		4B	200001714**	BAR GROUND BRN F/KB CHAIN NET CLIMBER	
5	200015170**	SHACKLE "D" STYLE 300 S.S.	4	5	200015170**	SHACKLE "D" STYLE 300 S.S.	4
6	200016225**	BOLT M10 X 1.5 300 SS 6-LOBE F/D SHACKLE	4	6	200016225**	BOLT M10 X 1.5 300 SS 6-LOBE F/D SHACKLE	4
7A	-	SAFETY LOOP ASSY F/KB WITH 2 WING CLAMPS	1	7B	-	HANDHOLD LOOP ASSY F/KB WITH 4 RAIL CLAMPS	1
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2	9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2
10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2	10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
11	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100 MM	4	11	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100 MM	4

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

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

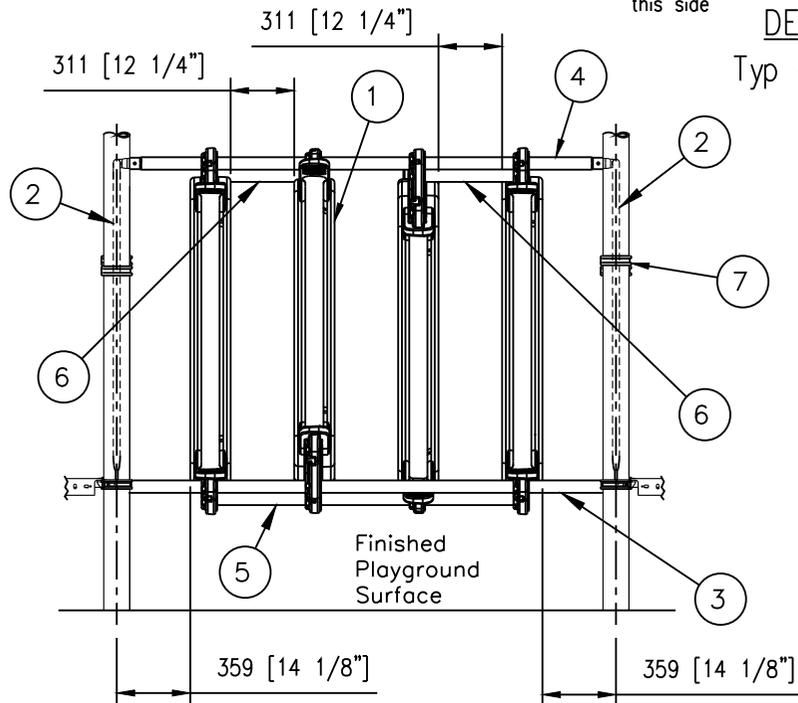
Item	Code	Description	*Qty.	Item	Code	Description	*Qty.
8	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 MM	8	8	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 MM	8
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6	9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6	10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
12	200002096	WASHER FLAT M10 34 OD x 11 ID x 3 MM THK	4	12	200002096	WASHER FLAT M10 34 OD x 11 ID x 3 MM THK	4

* QUANTITIES WILL VARY BASED ON GROUND COVER OPTION
** INGROUND MOUNT ONLY



Notch in item 1 on this side

DETAIL 6
Typ 4 Places



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

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

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

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

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

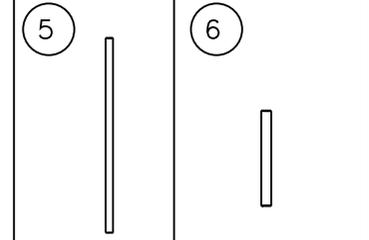
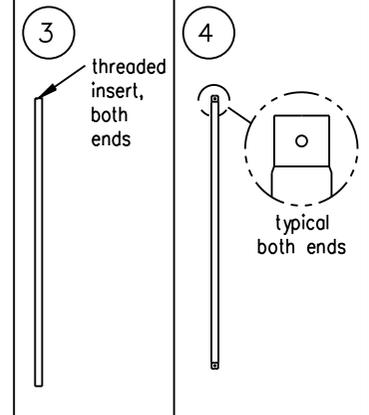
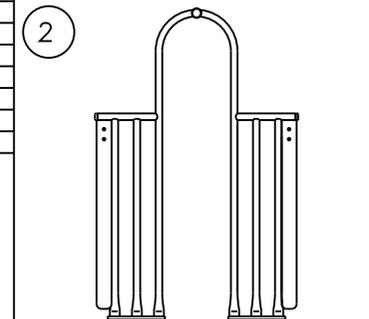
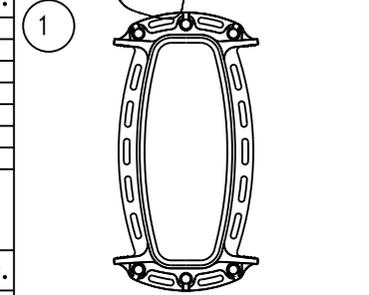
Installation Instructions

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

AUTHORIZED BY:

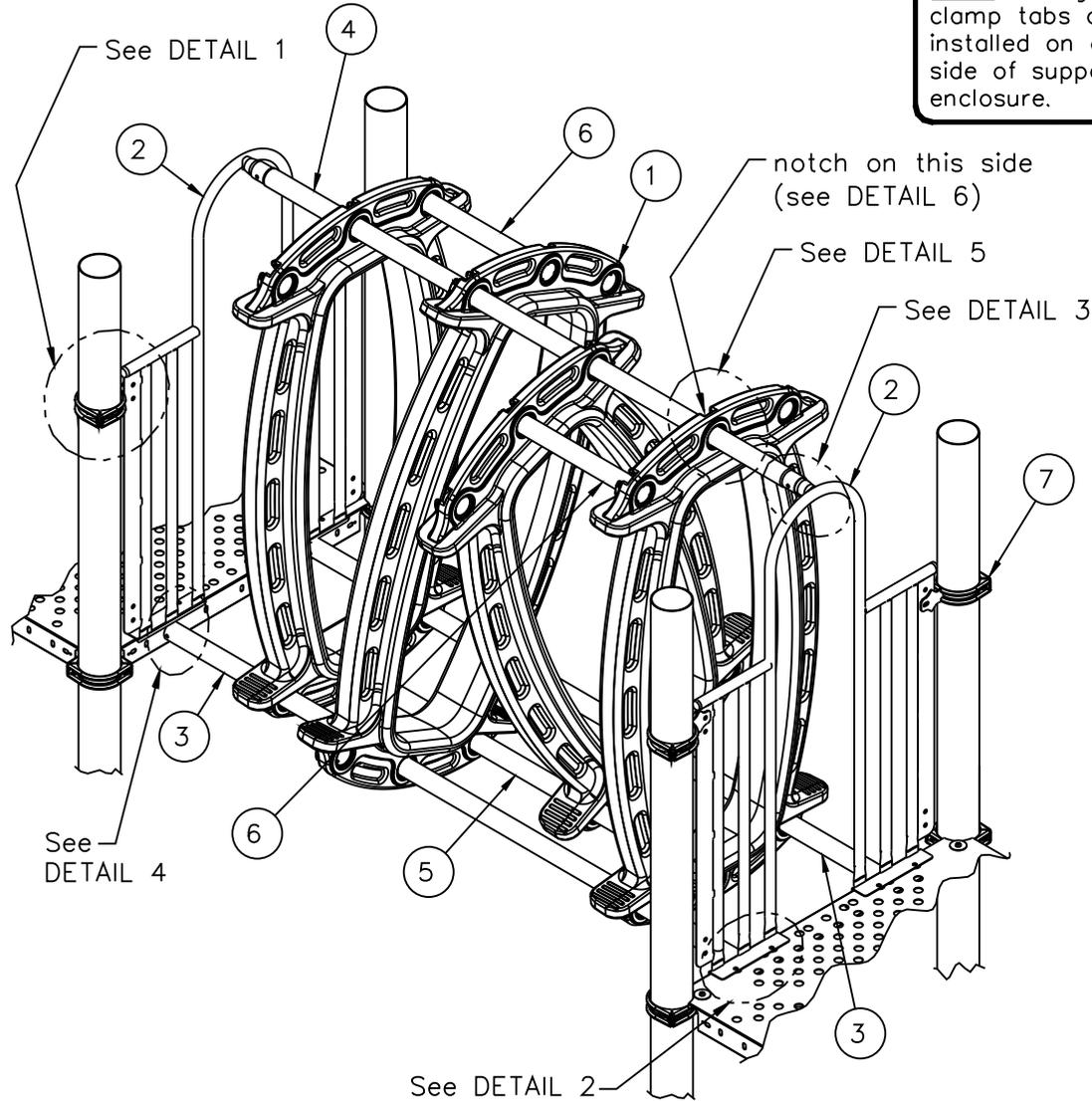
Chris M. Anderson

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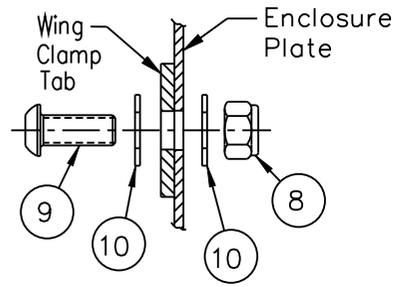


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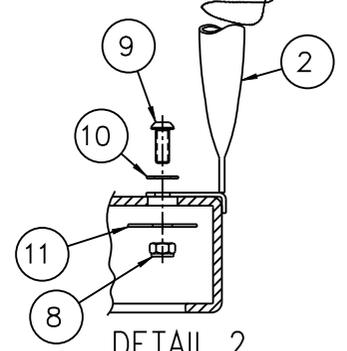
NOTE: Wing clamp tabs are installed on deck side of support enclosure.



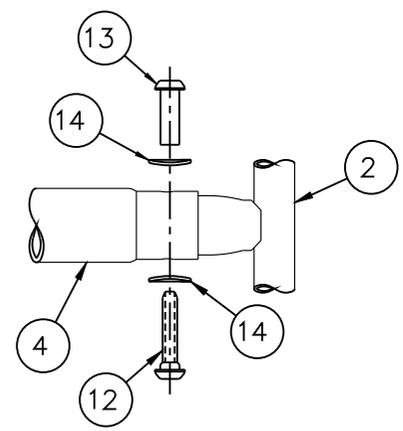
3D VIEW OF ASSEMBLY



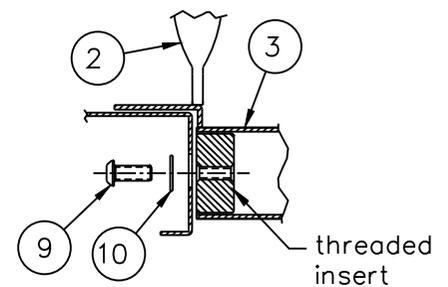
DETAIL 1
Typ 4 Places



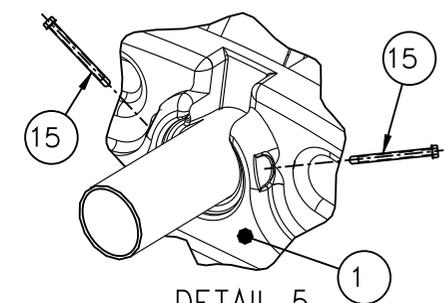
DETAIL 2
Typ 8 Places



DETAIL 3
Typ 2 Places



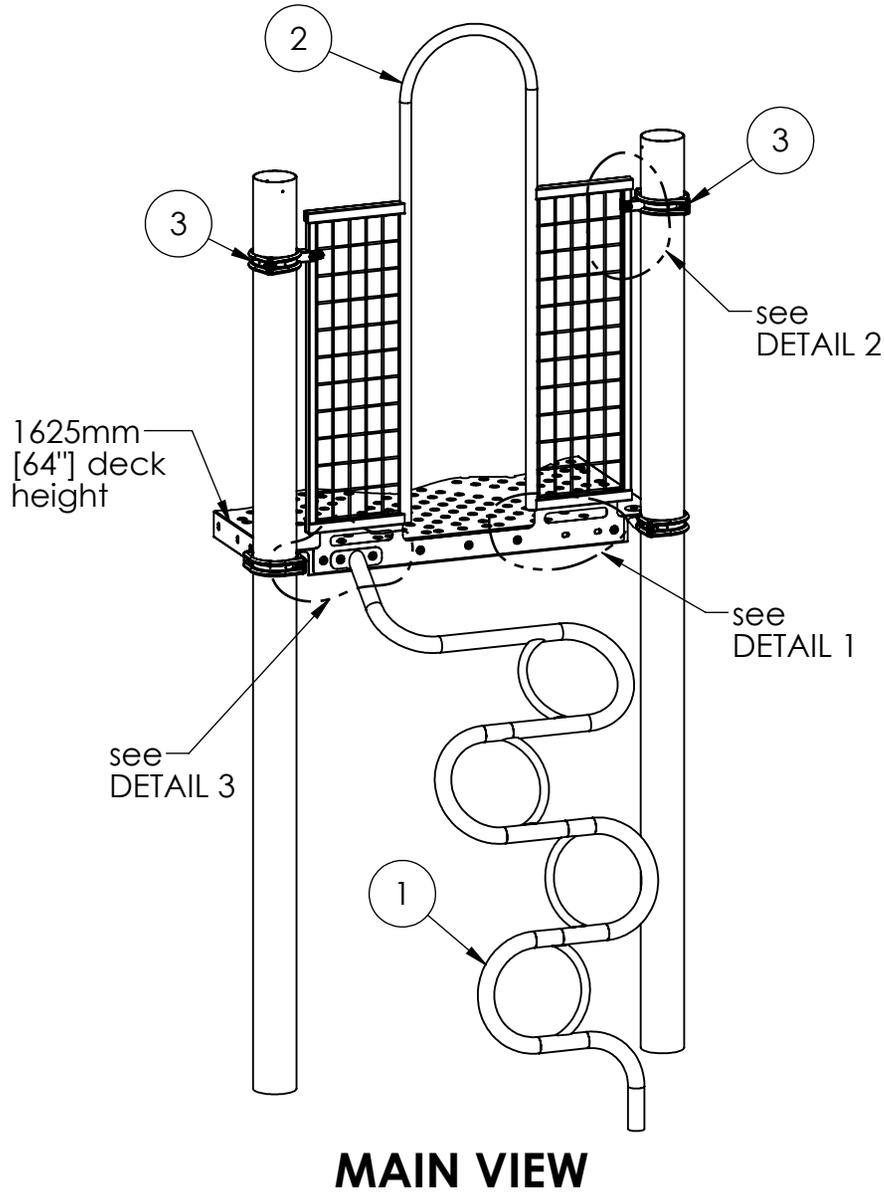
DETAIL 4
Typ 4 Places



DETAIL 5
Typ 18 Places

INST F/KB CRAZY STRAW CLIMB 64" W/WIRE ENCL

200313377
 KB300151A
 SHEET 1 OF 3
 AUTHORIZED BY: 04DEC14
Chris Newbury



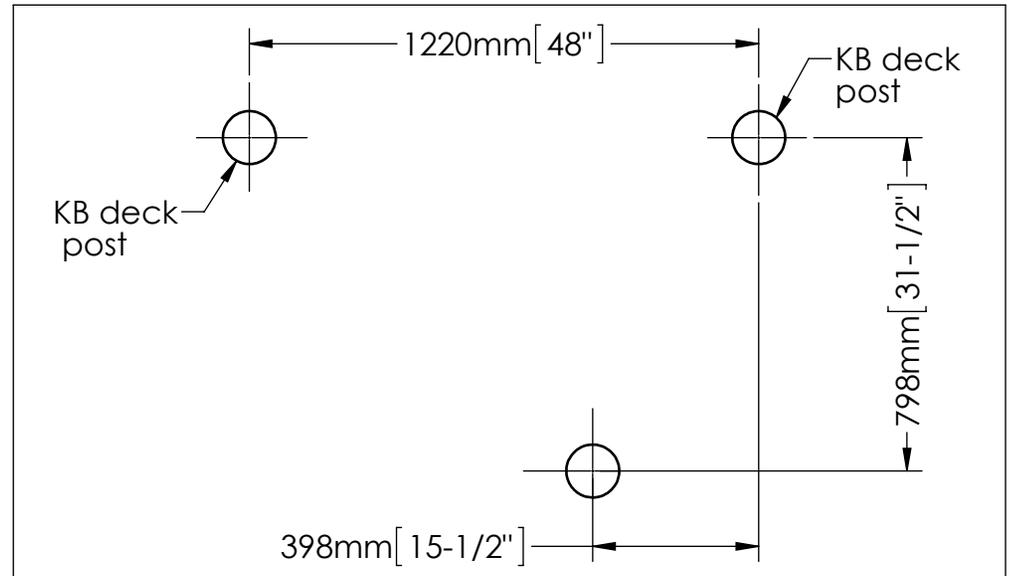
MAIN VIEW

200203334 KB CRAZY STRAW CLIMB 64" W/WIRE ENCL

ITEM	QTY	PART #	DESCRIPTION
1A	1	912222	CRAZY STRAW CLIMB SM
1B		912220	CRAZY STRAW CLIMB 305SM
1C		912224	CRAZY STRAW CLIMB ING
2	1	912303	ENCL CLIMB MESH F/KB W/O STUB
3	2	...	KB SQUARE TUBE TAB CLAMP ASSEMBLY

HW911753-1 HDWR F/CRAZY STRAW CLIMB W/WIRE ENCL

4	2	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM
5	2	200002133	BOLT M8 X 1.25 MALE 27.5mm
6	2	200002030	SCREW MACH BUTTON HEAD M10 X 1.5 X 30mm
7	5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm
8	7	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5
9	18	200002079	WASHER FLAT M11 23 X 12 X 1.6



FOOTING DIMENSIONS

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

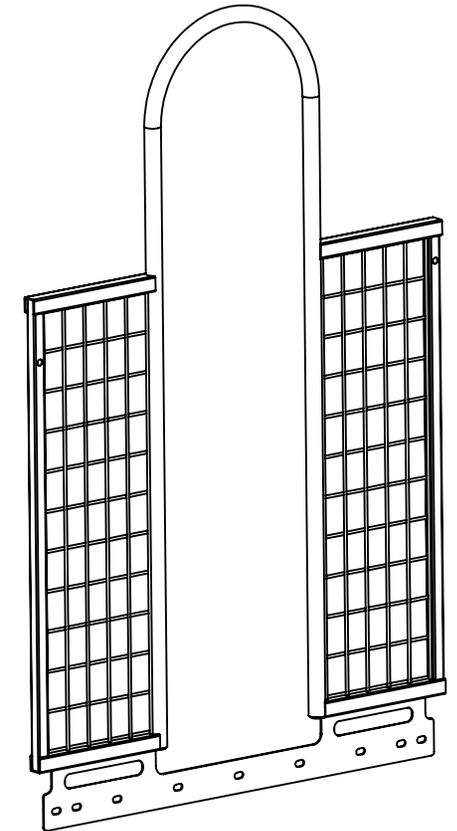
INST F/KB CRAZY STRAW CLIMB 64" W/WIRE ENCL

200313377
KB300151A
SHEET 2 OF 3
AUTHORIZED BY: 04DEC14
Chris Newbury

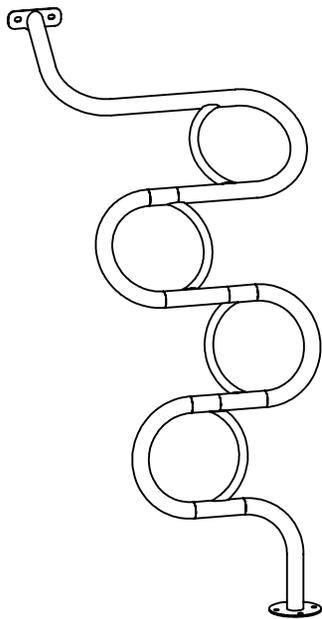
Installation Instructions

1. Loosely attach clamps to posts (refer to front of manual for additional clamp installation details).
2. Place Mesh Enclosure on deck as shown in main view on sheet 1. Attach bottom plate to deck as shown in DETAIL 1 and to clamps as shown in DETAIL 2. Note: Small tab in clamp is designed to be bent out as necessary for panel installation.
3. Attach top plate of climber (item 1) to deck face as shown in DETAIL 3.
4. Tighten all hardware, and install clamp hammer drive pins.
5. Complete footings and install resilient surfacing.

2

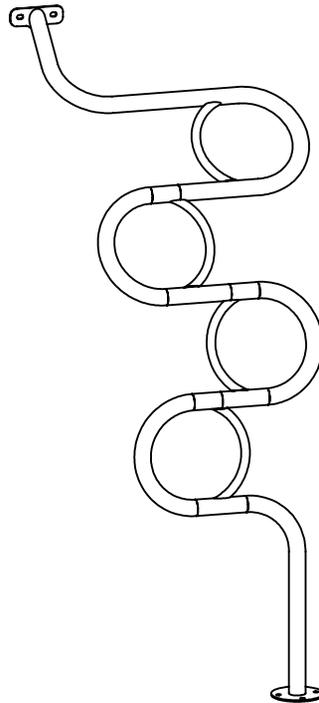


1A



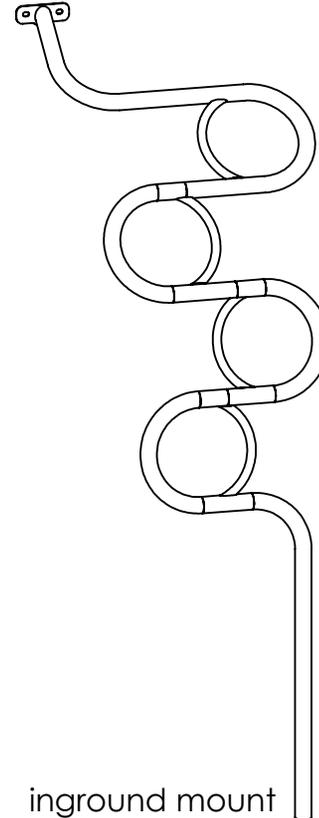
surface mount
40mm [1.5"]

1B



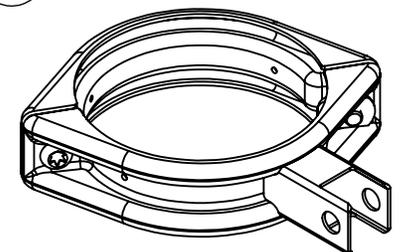
surface mount
305mm [12"]

1C



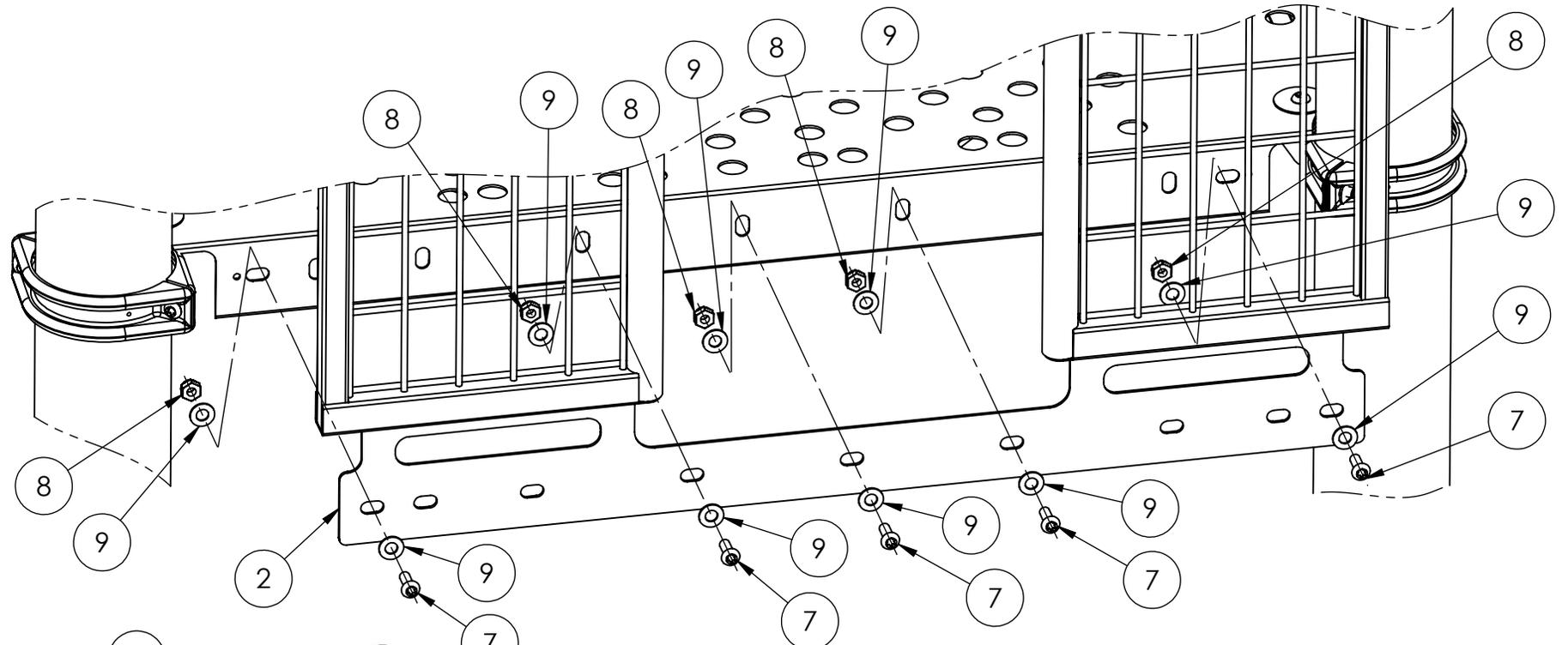
inground mount

3

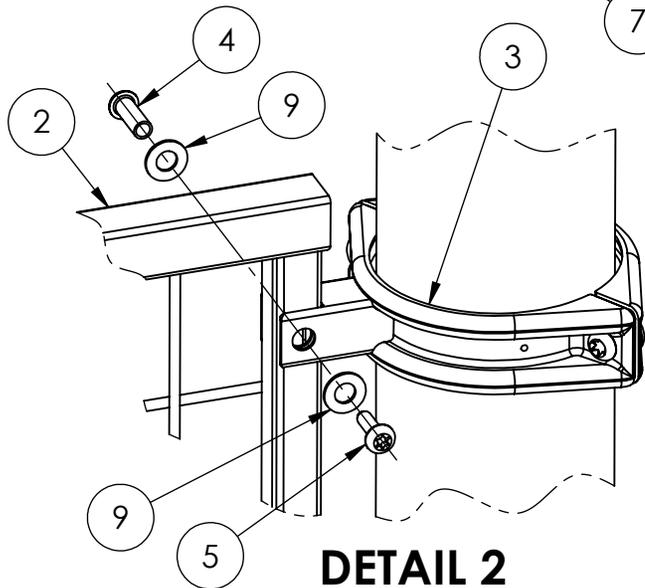


INST F/KB CRAZY STRAW CLIMB 64" W/WIRE ENCL

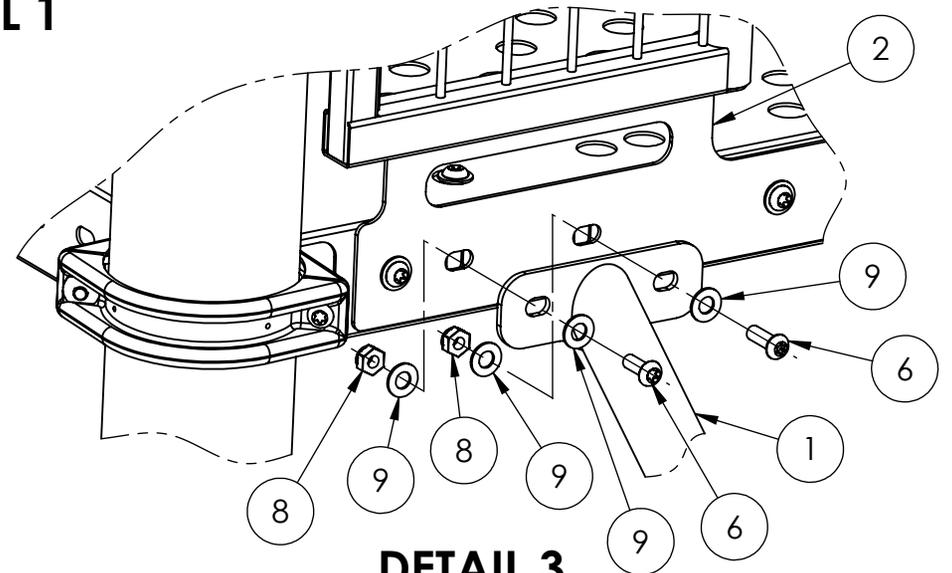
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SHEET 3 OF 3
AUTHORIZED BY: 04DEC14
Chris Newbury



DETAIL 1



DETAIL 2
Typ 2 Places



DETAIL 3

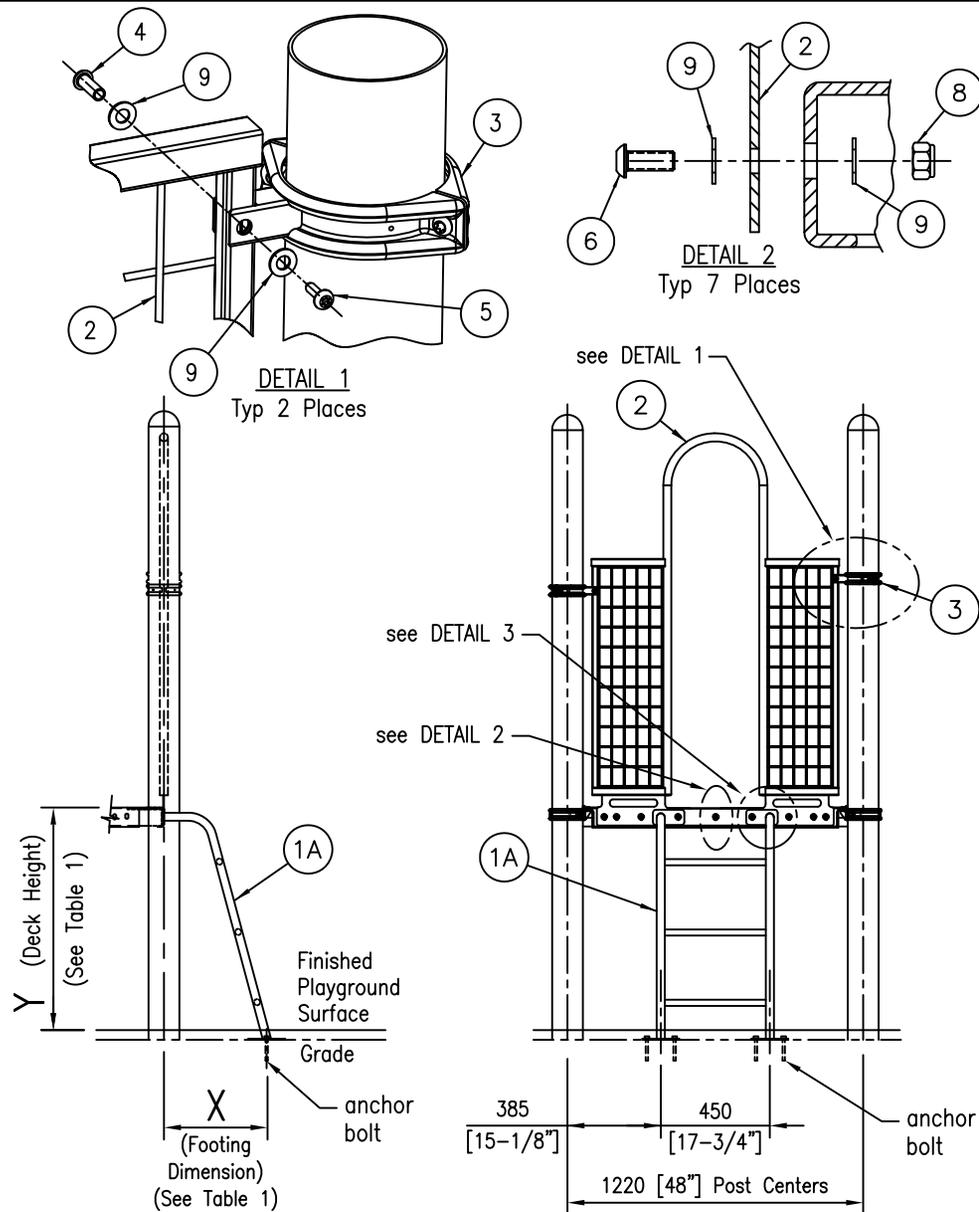


RUNG LADDER W/WIRE ENCL 610/915/1016/1220/1625mm

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KB300158A-S1
Sheet 1 of 2

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- RUNG LADDER 24" F/KB W/WIRE ENCL 200203369
- RUNG LADDER 36" F/KB W/WIRE ENCL 200203370
- RUNG LADDER 40" F/KB W/WIRE ENCL 200203371
- RUNG LADDER 48" F/KB W/WIRE ENCL 200203372
- RUNG LADDER 64" F/KB W/WIRE ENCL 200203373

Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	912303	ENCL CLIMB MESH F/KB W/O STUB	1
3	-	KB SQUARE TUBE CLAMP ASSEMBLY	2

HDWR PKG F/KB RUNG LADDERS W/WIRE HW909138-1

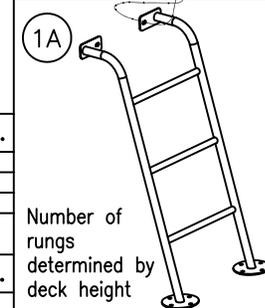
Item	Code	Description	Qty.
4	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	2
5	200002133	BOLT M8 X 1.25 MALE 27.5mm	2
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	7
7	200002030	SCREW MACH BUTTONHEAD M10 X 1.5 X 30MM	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	9
9	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 mm THK	22

Application

- Cannot be used as sole access to equipment.

Installation Instructions

1. Prepare footings. See TABLE 1 on sheet 1 for surface mount footing dimensions. See TABLE 2 on sheet 2 for inground mount footing dimensions.
2. Loosely attach clamps (refer to front of manual for additional clamp installation details).
3. Place Mesh Enclosure on deck as shown in main view. Attach bottom plate to deck in the 7 holes that do not have the Rung Ladder plate attachments as shown in DETAIL 2, and to clamps as shown in DETAIL 2. Note: Small tab in clamp is designed to be bent out as necessary for panel installation.
4. Attach Rung Ladder plates to the deck edge and bottom plate of Mesh Enclosure in 2 holes as shown in DETAIL 3.
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.



Surface Mount

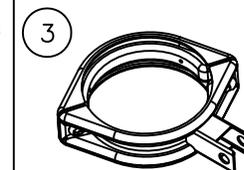
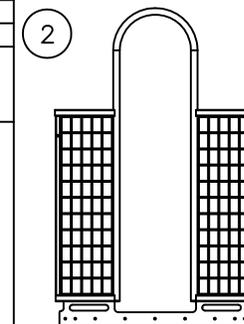
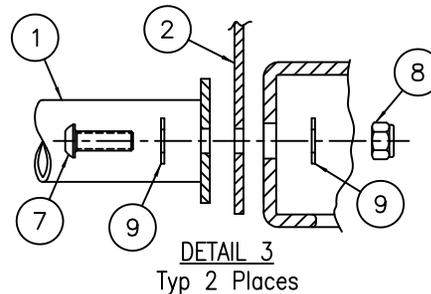


TABLE 1

Surface Mount Footing Dimensions			
"Y" Deck Height	"X" Ground Cover		"X" Ground Cover
	40mm [1-1/2"]	305mm [12"]	
610 [24"]	346 [13-5/8"]	417 [16-7/16"]	
915 [36"]	427 [16-13/16"]	499 [19-5/8"]	
1016 [40"]	454 [18"]	525 [20-5/8"]	
1220 [48"]	509 [20"]	581 [22-7/8"]	
1625 [64"]	618 [24-5/16"]	689 [27-1/8"]	



Surface Mount Version

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

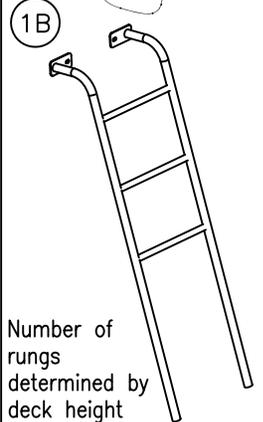


RUNG LADDER W/WIRE ENCL 610/915/1016/1220/1625mm

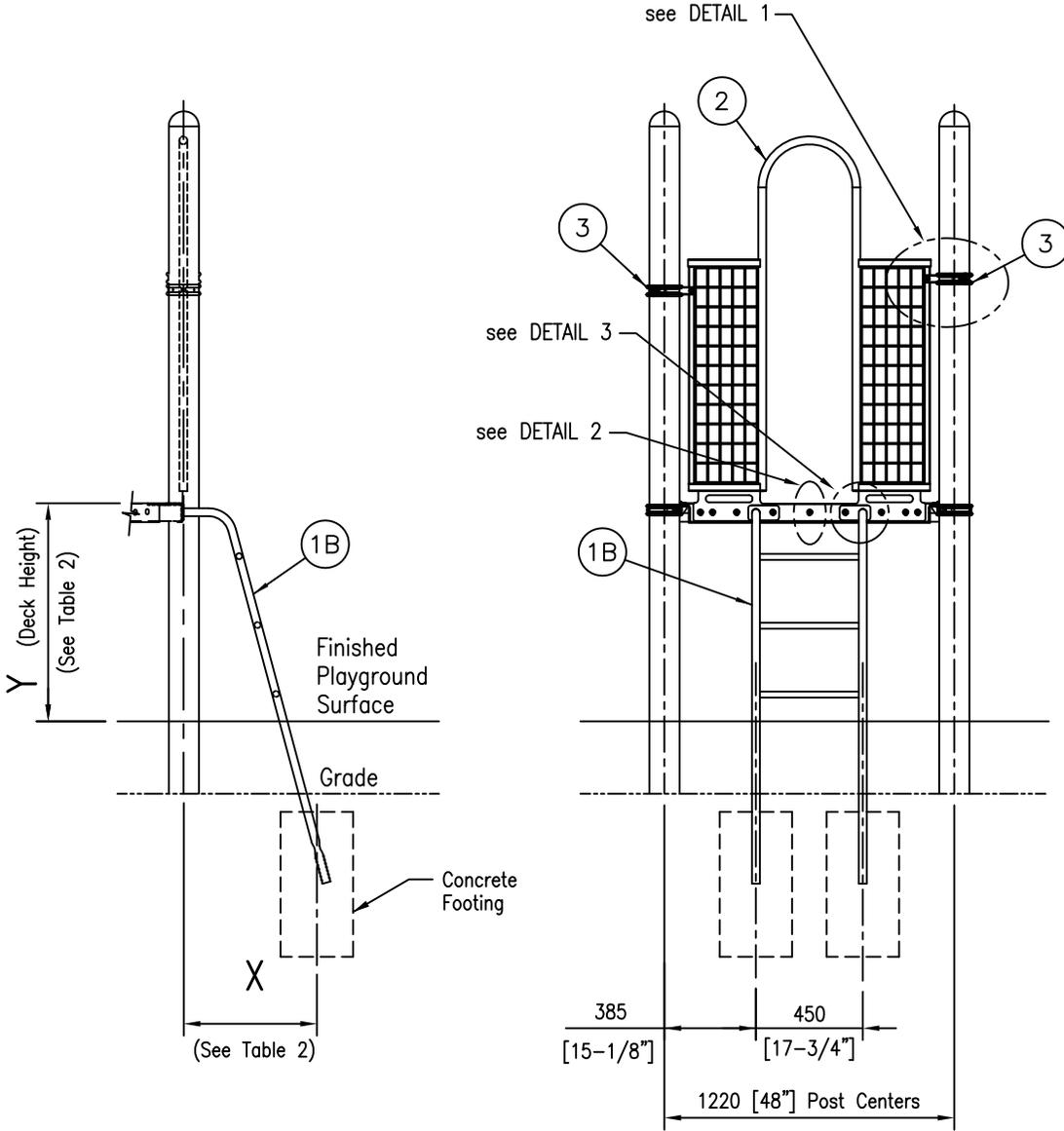
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Sheet 2 of 2

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Chris M. Anderson



Inground Mount



Inground Mount Version

TABLE 2

Inground Mount Footing Dimensions	
"Y" Deck Height	"X" 305mm [12"] Ground Cover
610 [24"]	478 [18-13/16"]
915 [36"]	559 [22"]
1016 [40"]	573 [22-1/2"]
1220 [48"]	641 [25-1/4"]
1625 [64"]	750 [29-1/2"]

KB Trail Climber

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

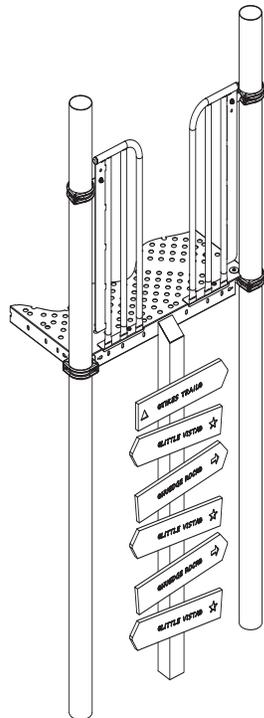
Models included in this installation guide:

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

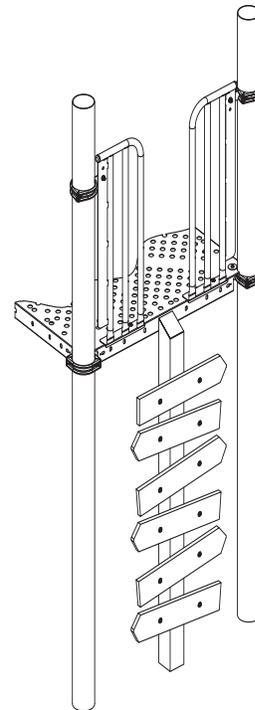
Note:

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

KB Trail Climber - w/wording



KB Trail Climber CSA - w/out wording



Note: Deck height varies per model.

KB Trail Climber

<i>200203460 KB TRAIL CLIMBER 72"</i>		
CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	3
903053	TRAIL CLIMBER SIGN, ARROW	2
925165	WOOD SIGN KIT F/72" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203459 KB TRAIL CLIMBER 64"</i>		
CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925614	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

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

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

KB Trail Climber

KB300442

KB Trail Climber

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

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

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KB Trail Climber

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

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

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KB Trail Climber

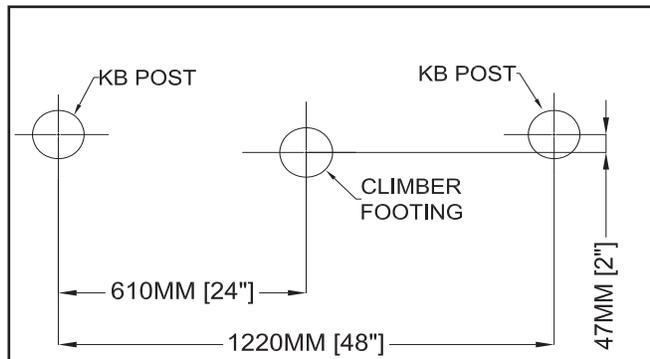
KB300442

KB Trail Climber

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

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

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



KB Trail Climber

STEP 1 DECK AND POST FOOTINGS

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

1b. Deck Height Options:

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

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

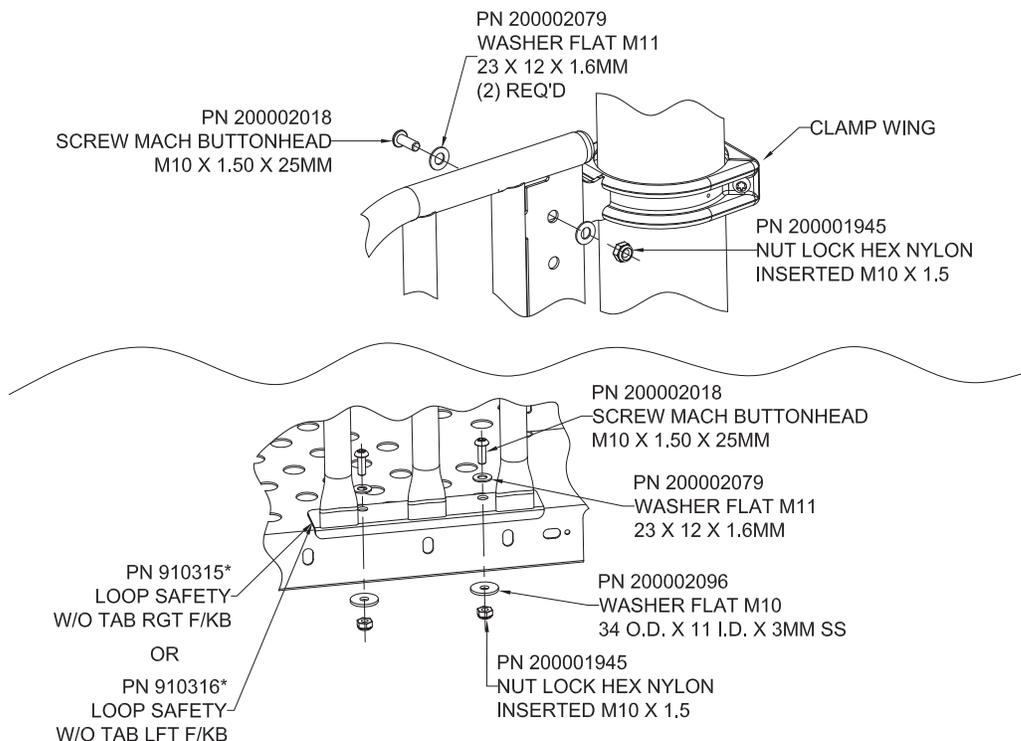
STEP 2 ASSEMBLE WING CLAMPS

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

STEP 3 ATTACH SAFETY LOOPS TO DECK

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

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



KB Trail Climber

KB300442

KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS

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

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

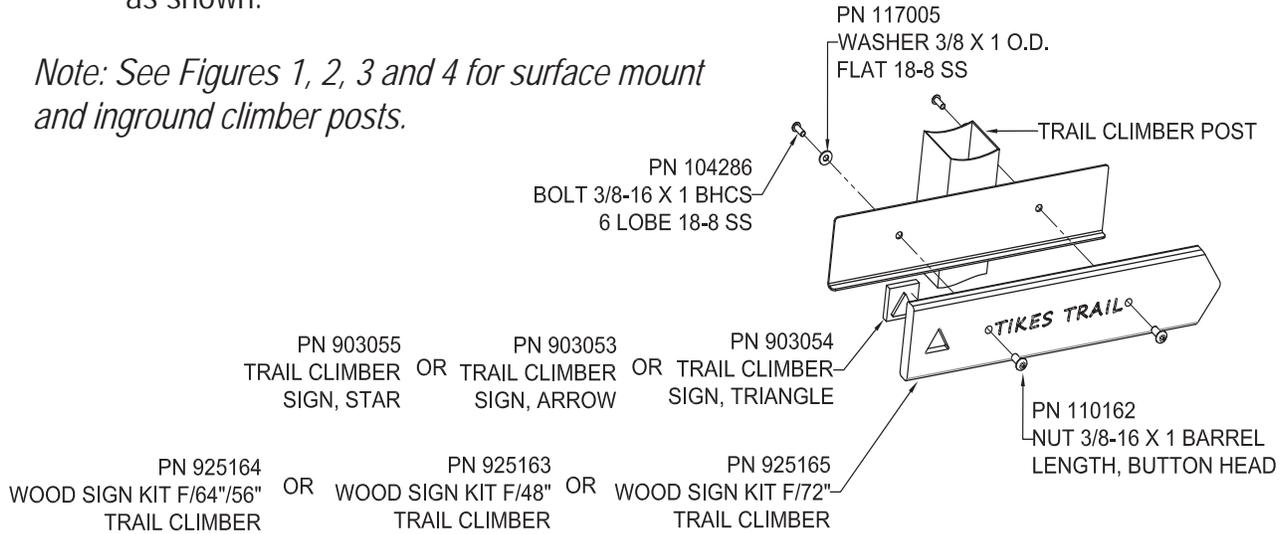


Figure 1. 1830MM [72"]

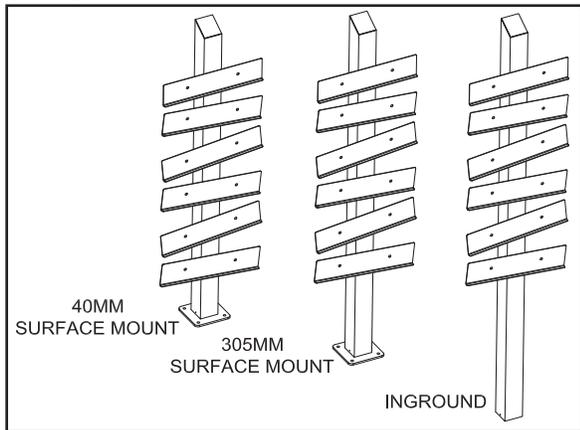


Figure 2. 1625MM [64"]

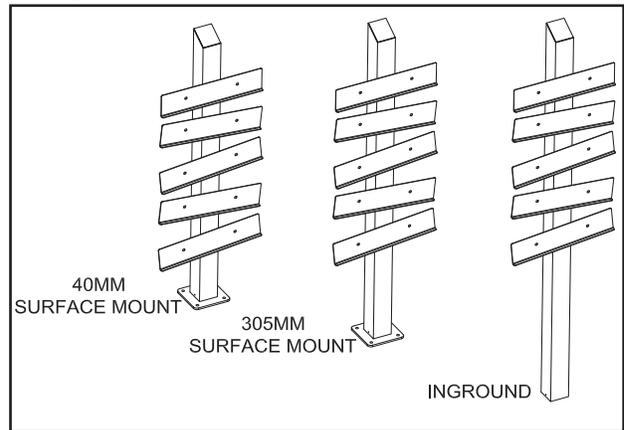


Figure 3. 1422MM [56"]

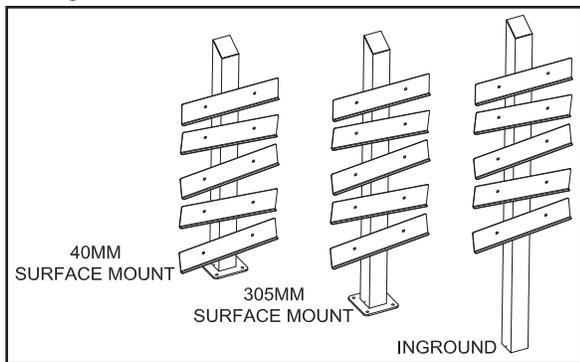
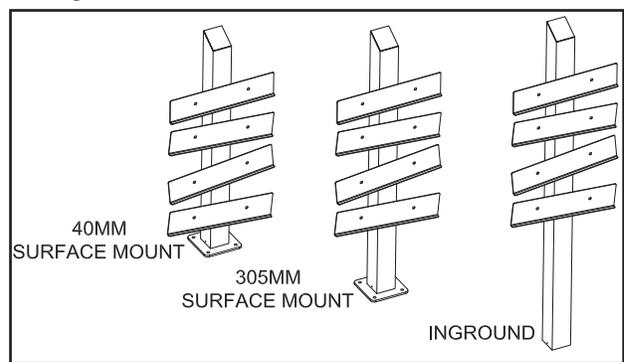


Figure 4. 1220MM [48"]



KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS cont.

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

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

Figure 5. 1830MM [72"]

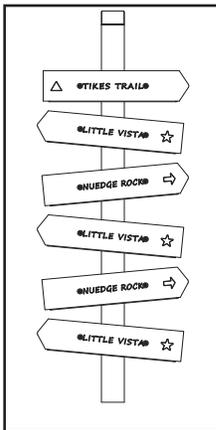


Figure 6. 1625MM [64"]

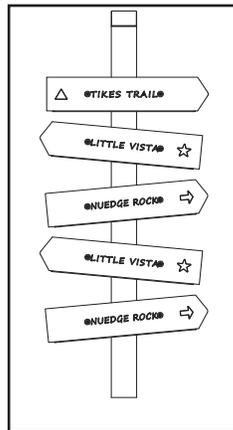


Figure 7. 1422MM [56"]

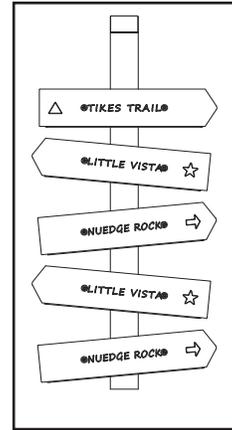
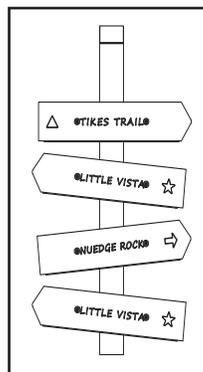


Figure 8. 1220MM [48"]



KB Trail Climber

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

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

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

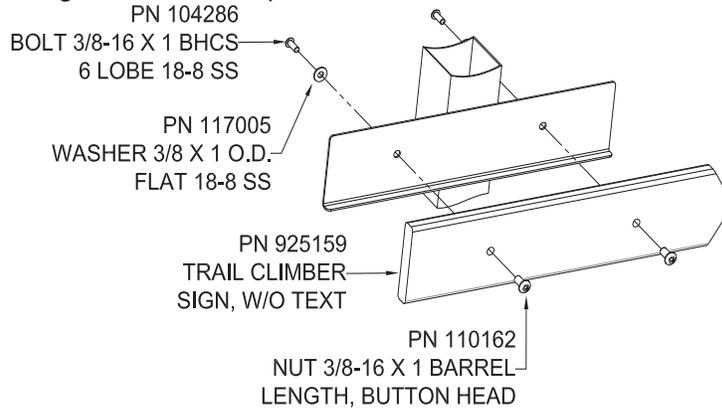


Figure 9. 1830MM [72"]

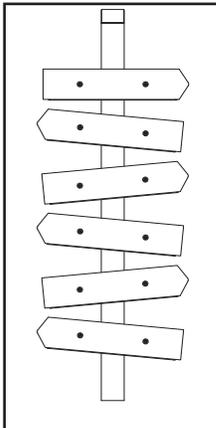


Figure 10. 1625MM [64"]

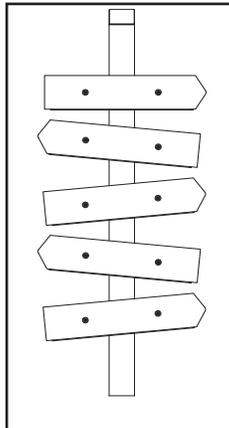


Figure 11. 1422MM [56"]

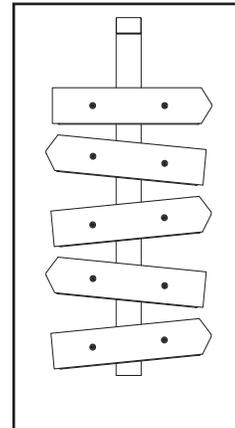
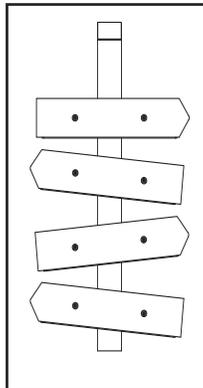


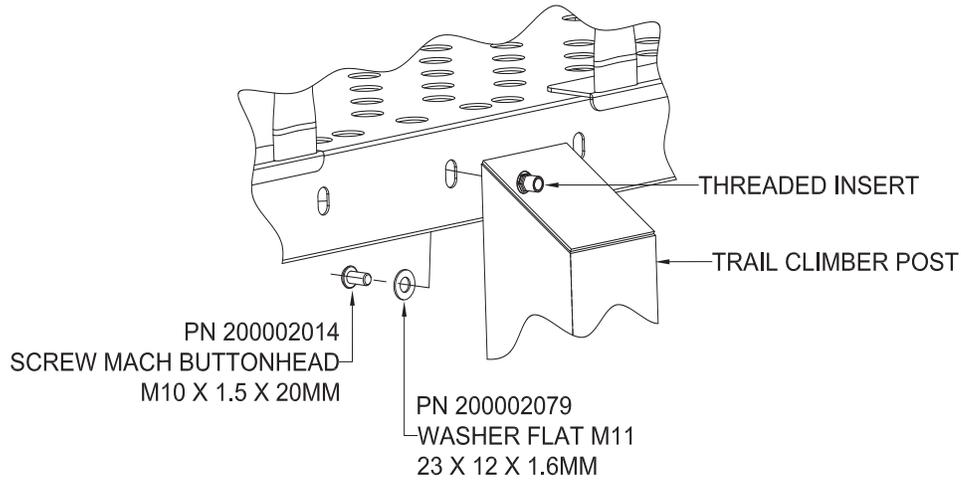
Figure 12. 1220MM [48"]



KB Trail Climber

STEP 6 ATTACH POST CLIMBER TO DECK

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



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

FINAL STEP

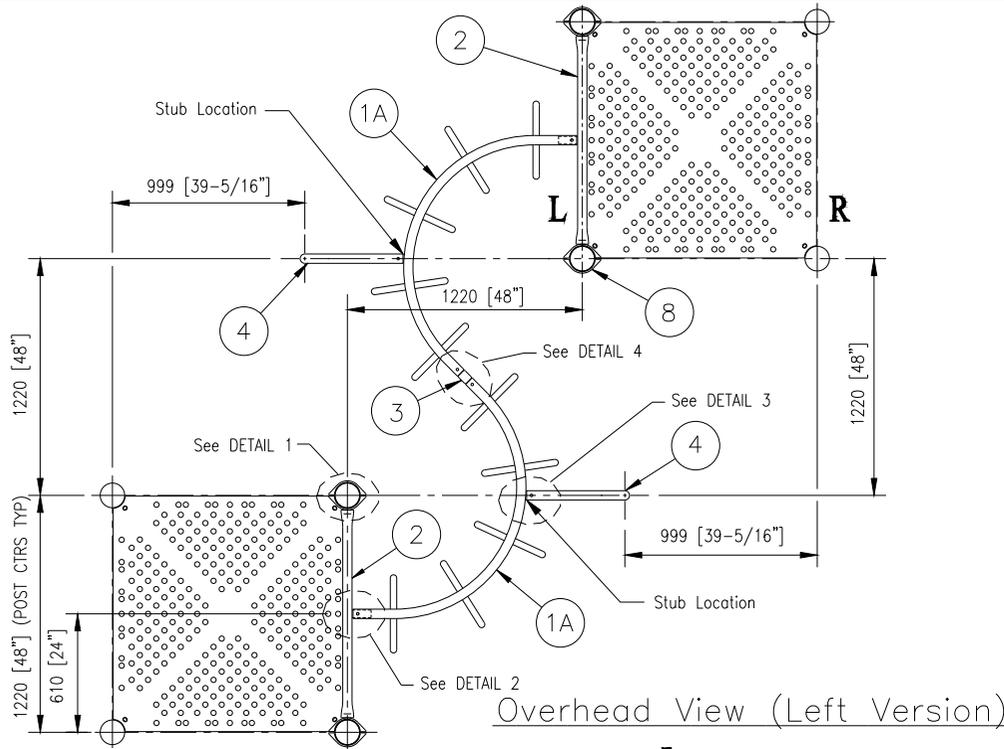
Proceed with *Final Assembly installation*.



"S" OVERHEAD F/KB

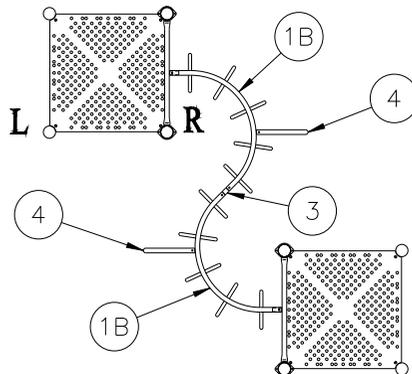
200100663
KB400021D-S1
Sheet 1 of 2

AUTHORIZED BY:
Joe Pittell 09JUN08



Overhead View (Left Version)

L = LEFT SIDE OF DECK
R = RIGHT SIDE OF DECK



Overhead View (Right Version)

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

"S" OVERHEAD LEFT F/KB 200102484

"S" OVERHEAD RIGHT F/KB 200102485

Item	Code	Description	Qty.
1A	-	LOOP LEFT 5 RUNG F/CIRC.OVERHEAD	2
1B	-	LOOP RIGHT 5 RUNG F/CIRC.OVERHEAD	
2	-	BRACKET F/KB CIRCLE OVERHEAD	2
3	-	JUNCTION SLEEVE F/OVERHEAD	1
4	-	POST SUPPORT F/OVERHEAD	2
8	-	CLAMP HALF	4
9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
10	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	8
11	200000797	HAMMER DRIVE PIN 4.7 X 11.1MM	8

HDWR BAG F/KB CIRCLE OVERHEAD 200099960

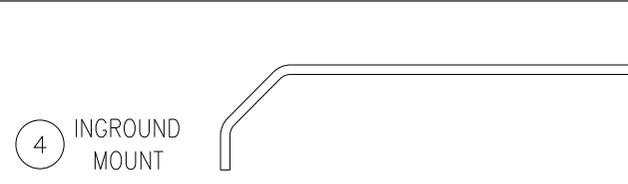
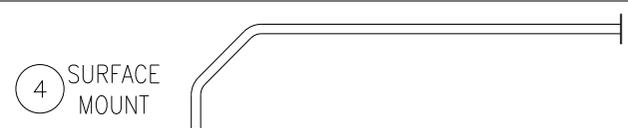
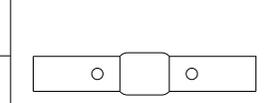
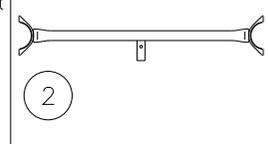
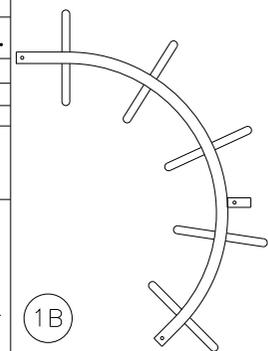
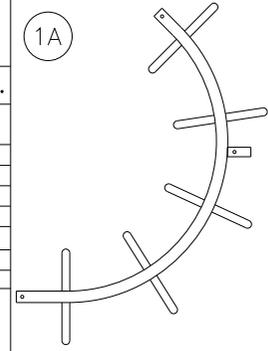
Item	Code	Description	Qty.
5	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	6
6	200002133	BOLT M8 X 1.25 MALE 27.5 MM	6
7	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	12

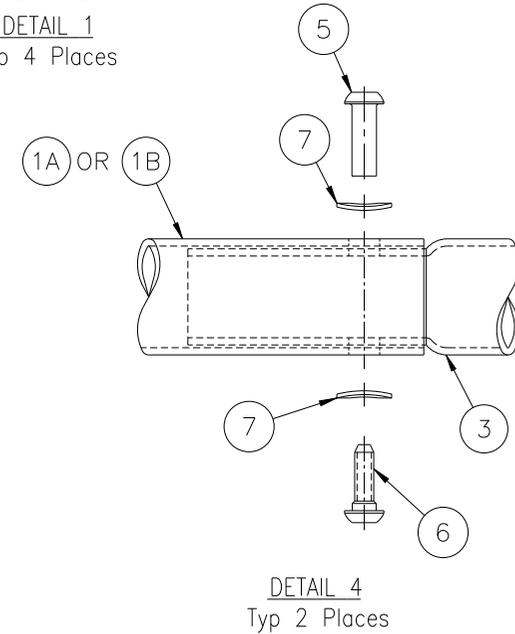
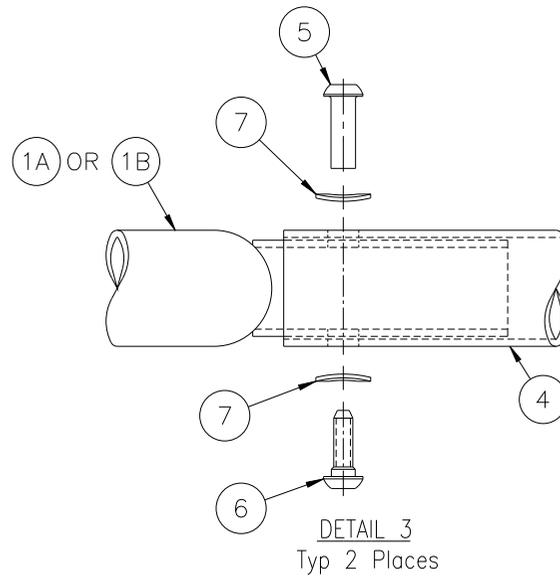
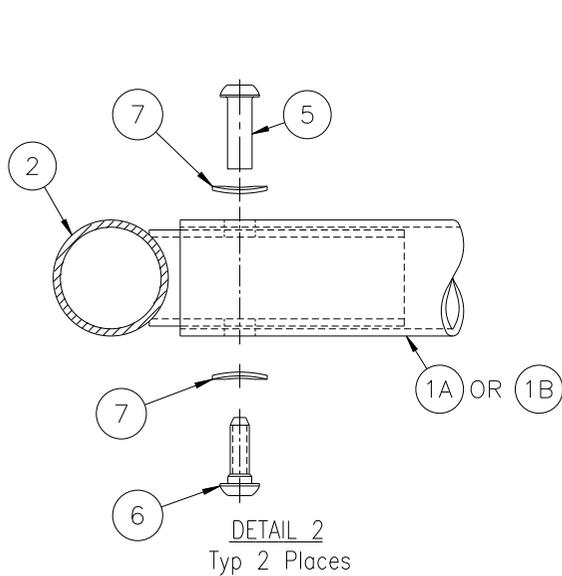
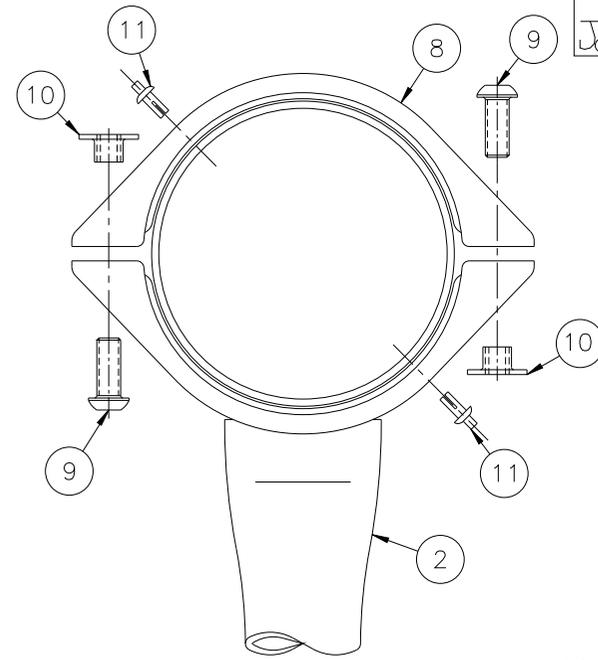
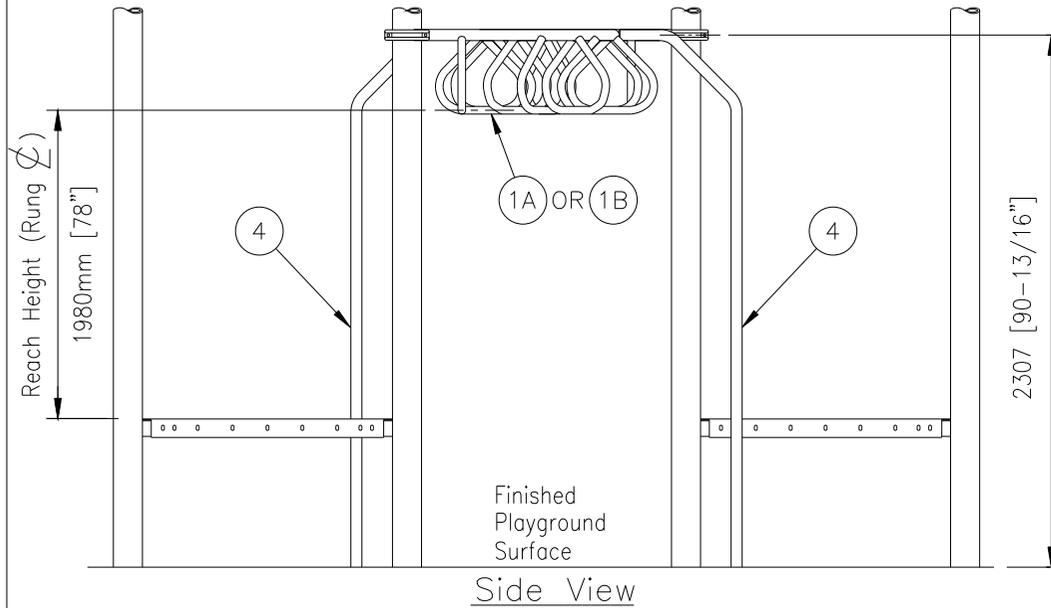
Application

- Age Group: (5 - 12 Year Olds)

Installation Instructions

1. Prepare Footings.
 2. Loosely attach two Loops (Item 1A or 1B) using Junction Sleeve (Item 3) (refer to Detail 4).
- Note: Reference stub locations in overhead view to ensure proper assembly.
3. Loosely attach Post Brackets (Item 2) to posts (refer to front of manual for clamp installation detail).
 4. Lift assembly and loosely attach to post brackets (refer to Detail 2).
 5. Position to proper height and attach Support Posts (Item 4) (refer to DETAIL 3).
 6. Tighten all clamps and hardware.
 7. Complete Footings and install resilient surfacing.





Chris M. Anderson

- RECYCLED TREEHOUSE CURLY CLIMB 36" F/KB 200202399
- RECYCLED TREEHOUSE CURLY CLIMB 48" F/KB 200202400
- RECYCLED TREEHOUSE CURLY CLIMB 56" F/KB 200202449
- RECYCLED TREEHOUSE CURLY CLIMB 64" F/KB 200202450
- RECYCLED TREEHOUSE CURLY CLIMB 72" F/KB 200202451

Item	Code	Description	Qty.
1	-	PANEL TREE VERT CLIMB "ENTER HERE"	1
2	-	KB WING CLAMP ASSEMBLY	2
3	-	TUBE ANCHOR F/VERTICAL CLIMBERS *	1
4	-	CLIMBER CURLY	1

* FOR SURFACE MOUNT ONLY

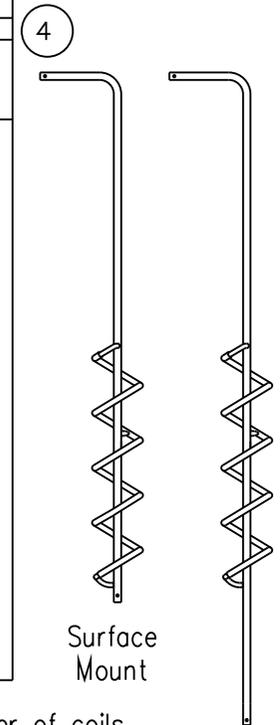
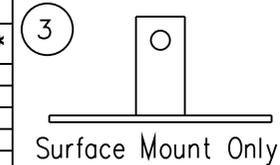
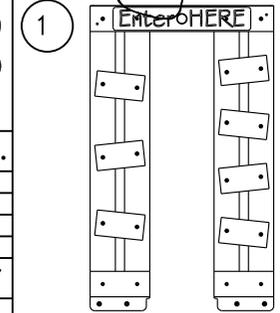
HDWR BAG F/TREEHOUSE CURLY/SNAKE CLIMB 200190205

Item	Code	Description	Qty.*	Qty.**
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4	4
6	200002138	BOLT M8 X 1.25 MALE 42.5 MM	3	3
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4	3
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4	4
9	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4	2
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12	12
11	200002133	BOLT M8 X 1.25 MALE 27.5 MM *	1	0

Installation Instructions

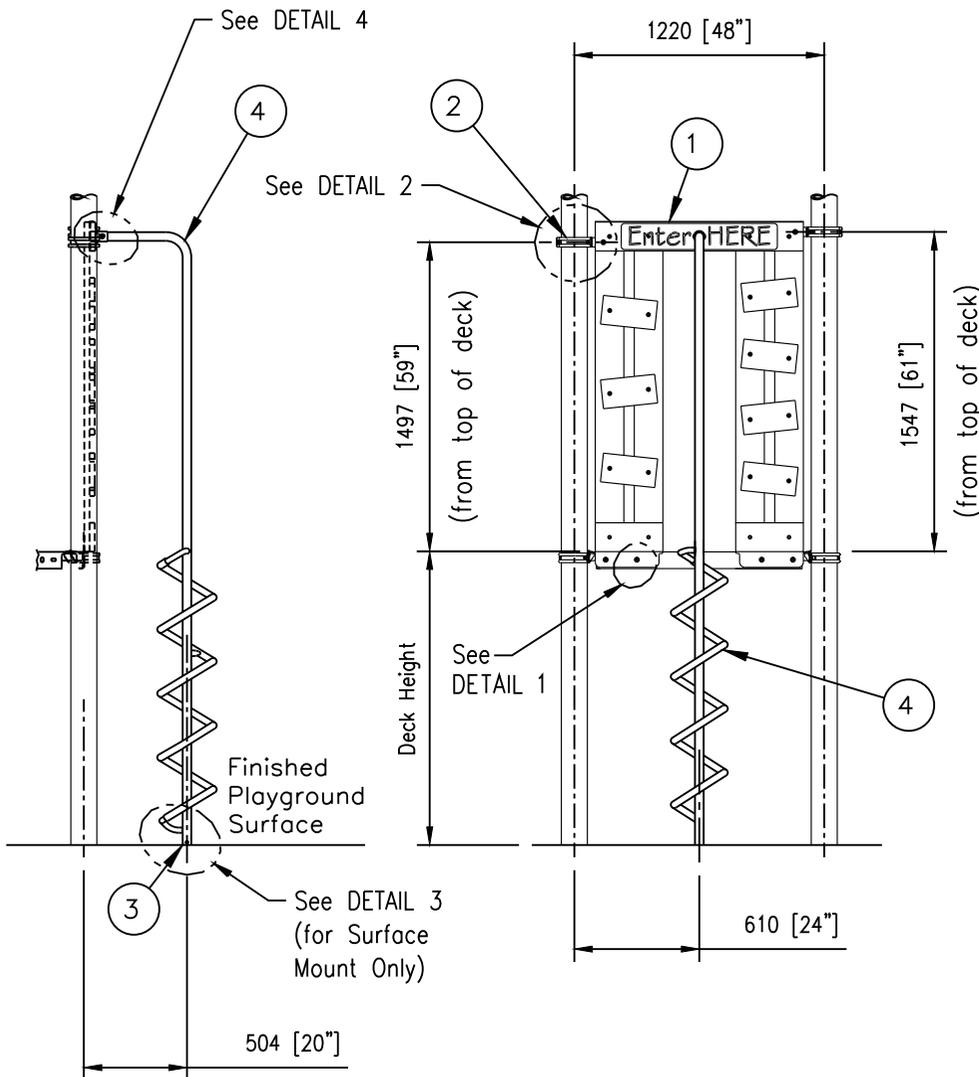
* FOR SURFACE MOUNT
** FOR INGROUND MOUNT

1. Prepare footing.
2. Loosely attach the clamps to the posts (refer to front of manual for clamp installation details).
3. Lift enclosure into place and loosely attach to deck edge (refer to DETAIL 1).
4. Loosely attach enclosure to clamps (refer to DETAIL 2).
5. For Surface Mount version, loosely attach tube anchor to climber (refer to DETAIL 3).
6. Lift climber into place and attach to enclosure (refer to DETAIL 4).
7. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.

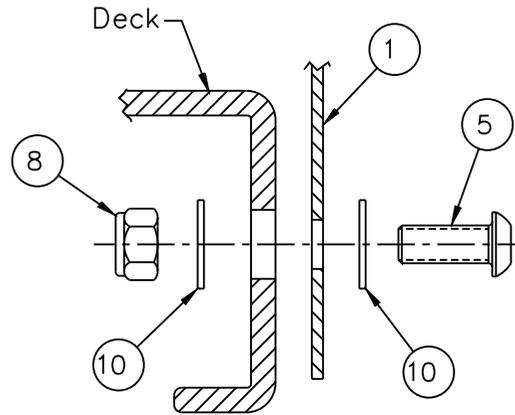


Number of coils is determined by deck height

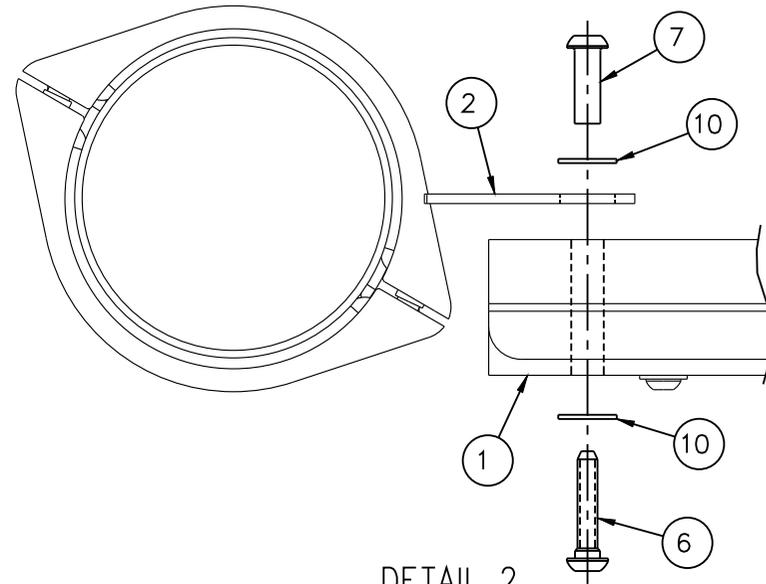
Inground Mount



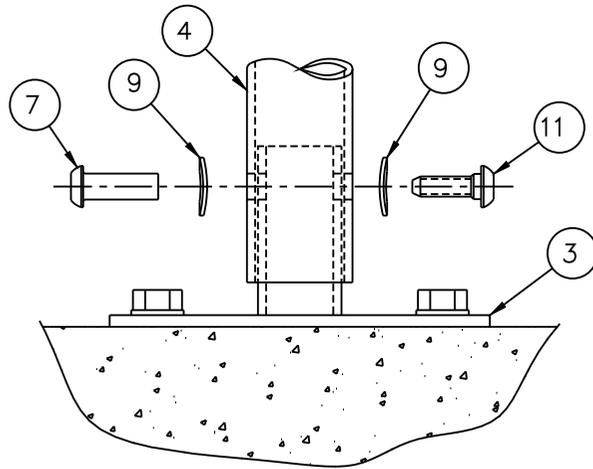
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



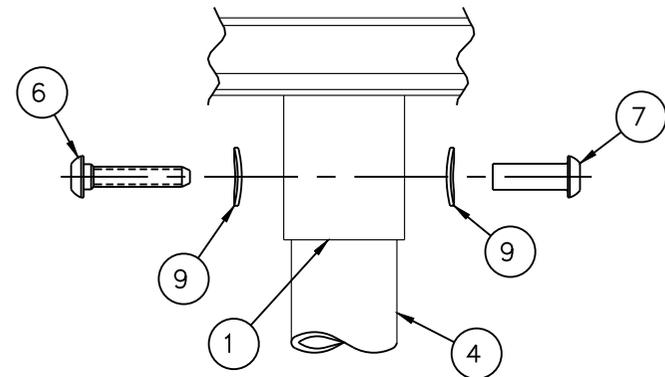
DETAIL 1
Typ 4 Places



DETAIL 2
Typ 2 Places



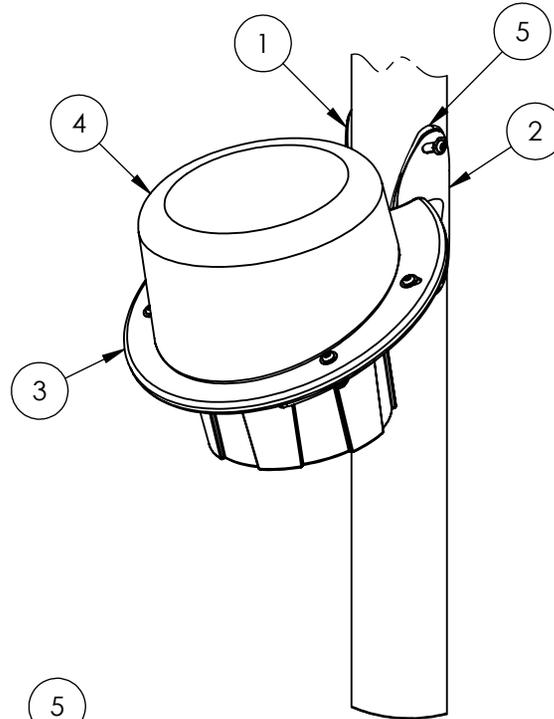
DETAIL 3
Surface Mount Only



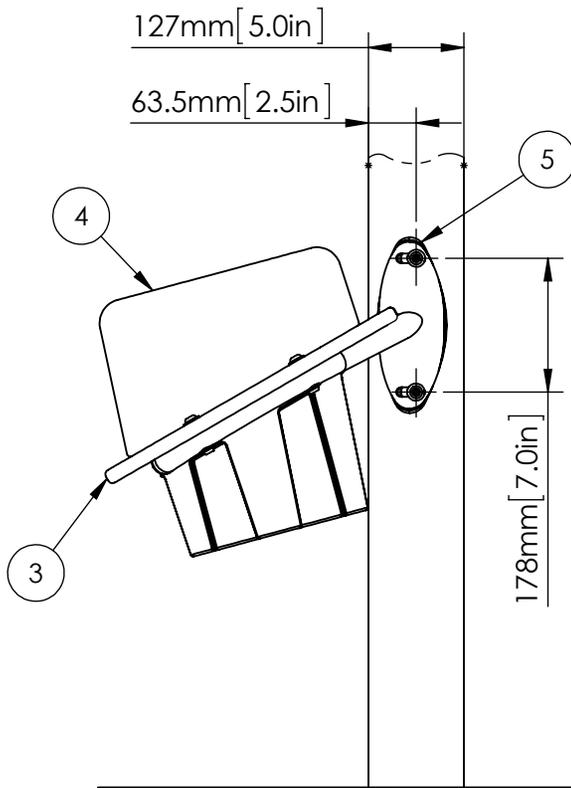
DETAIL 4

INSTALL INSTRUCTION F/KB BOINGO

200313345
KB600068A
SHEET 1 OF 4
AUTHORIZED BY: 1/20/14
ERIC CLINTON



3D VIEW



SIDE VIEW

KB BOINGO 200203205

ITEM	PART NO.	DESCRIPTION	QTY
1	998884	BEATBUBBLE SUPPORT LEFT	1
2	998881	BEATBUBBLE SUPPORT RIGHT	1
3	998915	BOINGO FRAME	1
4	993773	DRUM, ROTOMOLDED - 13" DIA	1

HDWR BAG F/ KB BOINGO 999370

ITEM	PART NO.	DESCRIPTION	QTY
5	993573	RUBBER GASKET	2
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	8
7	200002138	BOLT M8 X 1.25 MALE 42.5 MM	4
8	200112520	ROD THREADED M8 X 1.25 X 135MM- PARTS RM	2
9	104749	BOLT 1/4-20 X 1-1/4 BHCS 6 LOBE	4
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	8
11	117001	1/4" FLAT WASHER - 18-8 SS	4
12	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	4

Application:

- Installed below deck only

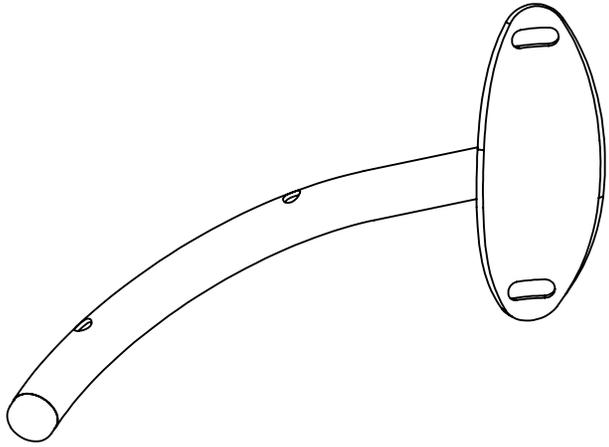
Installation Instructions:

- Two holes will need to be drilled through the existing KB post. Distance between upper and lower hole is 178mm [7"] as shown in Side View on sheet 1. Make sure drill is level. Drill two 13mm [1/2"] diameter holes through the KB post.
- Attach Left & Right supports (Items 1 & 2) along with gaskets as shown in DETAIL 1.
- Assemble drum to frame as shown in DETAIL 2. Longer side of the drum top should be opposite to cutout in frame.
- Bolt this assembly onto the left and right supports in 4 locations as shown in DETAIL 3.
- Tighten all hardware.

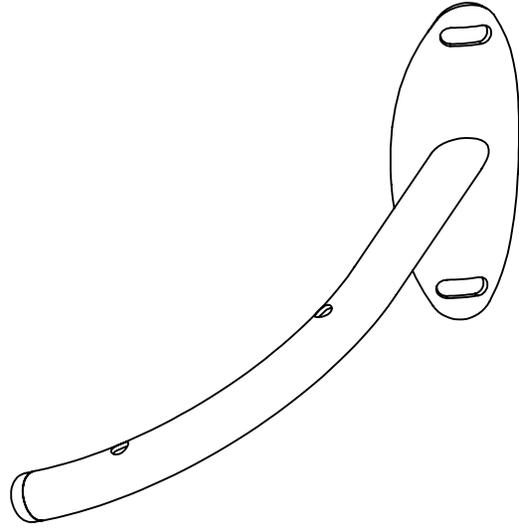
INSTALL INSTRUCTION F/KB BOINGO

200313345
KB600068A
SHEET 2 OF 4
AUTHORIZED BY: 1/20/14
ERIC CLINTON

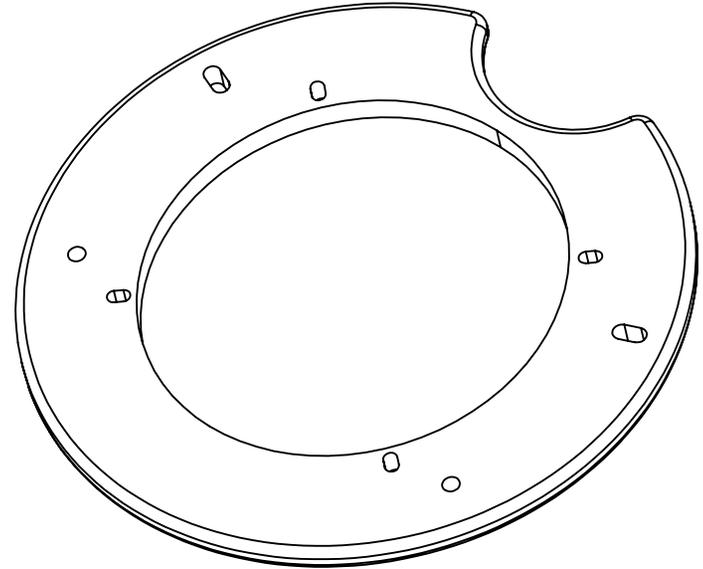
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2

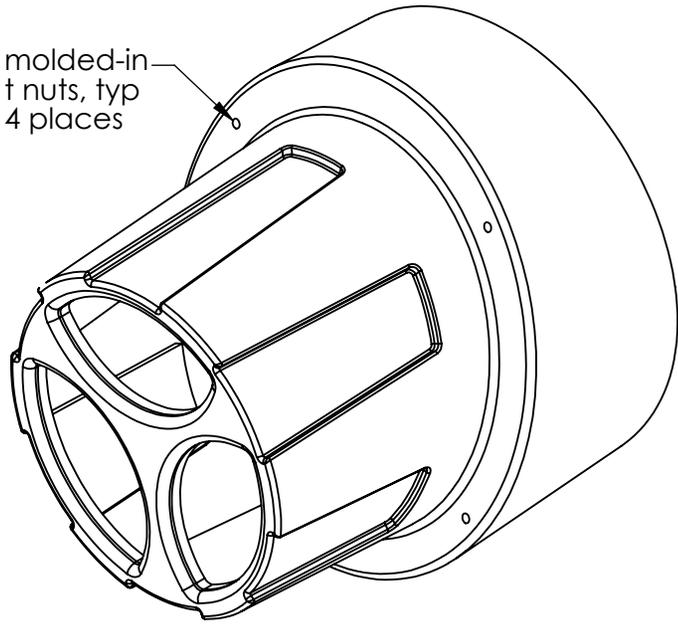


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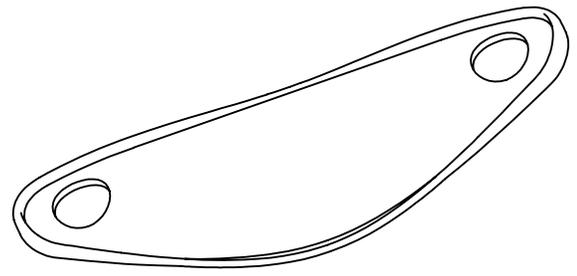


4

molded-in
nuts, typ
4 places

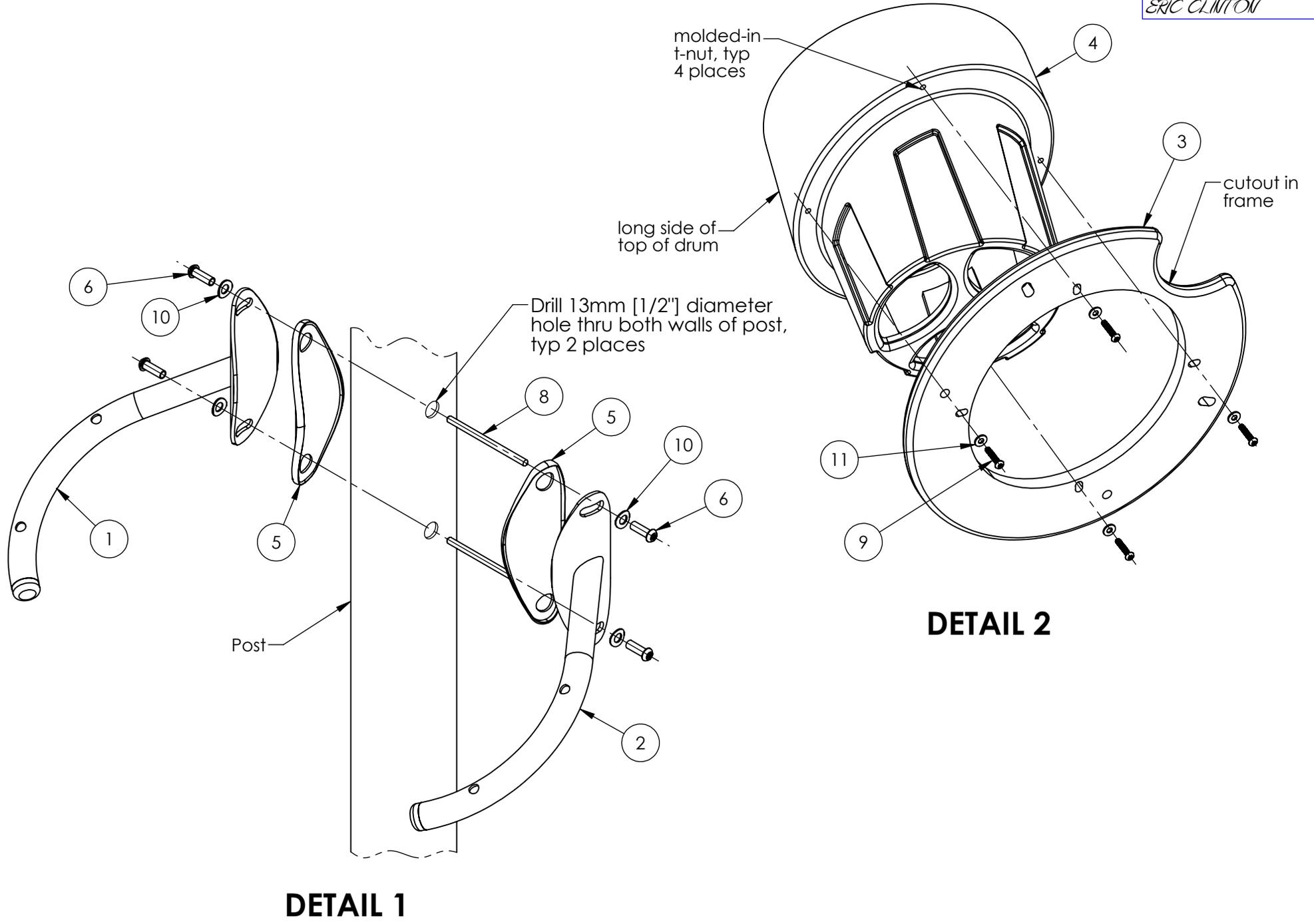


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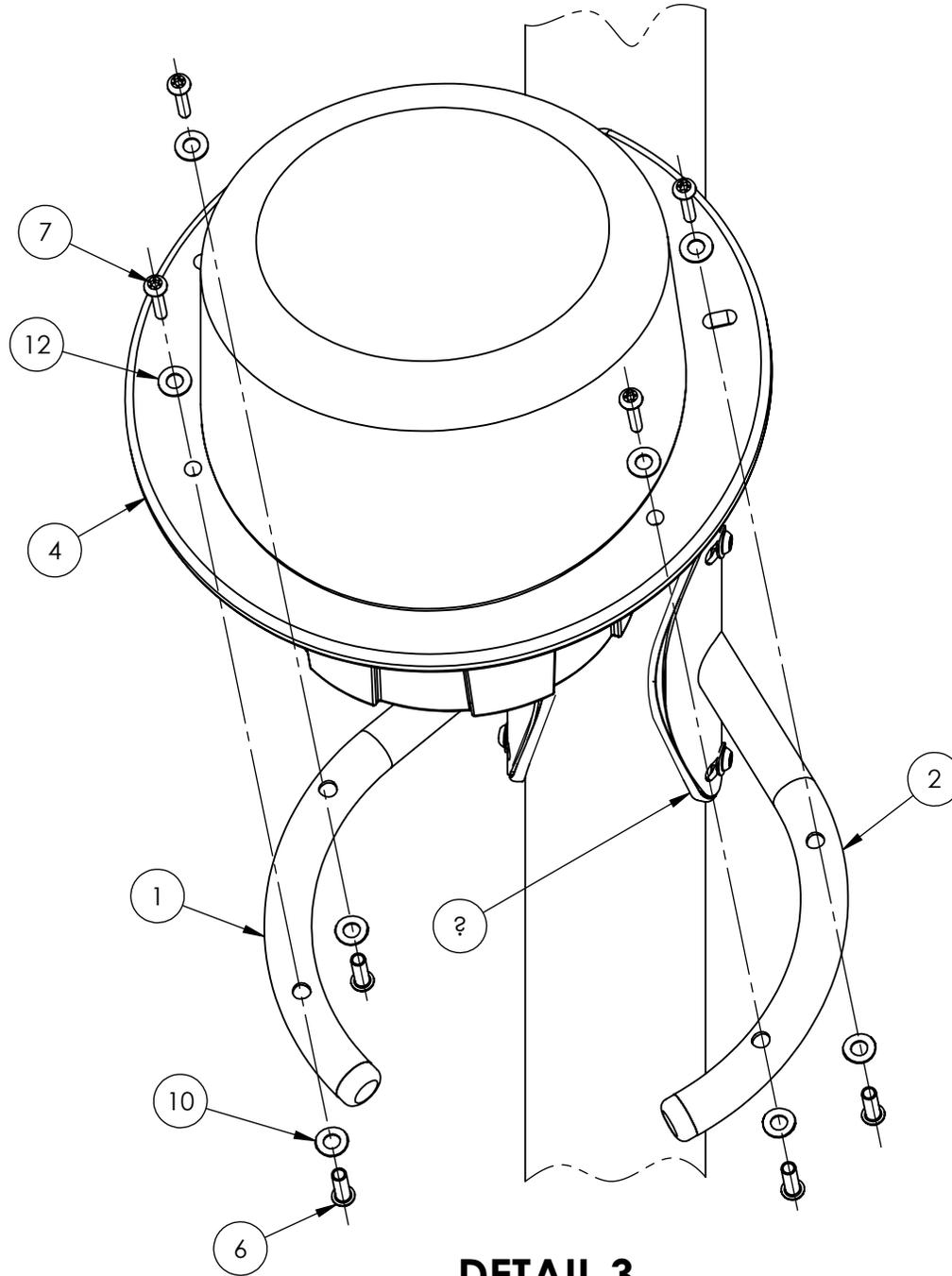
INSTALL INSTRUCTION F/KB BOINGO

200313345
KB600068A
SHEET 3 OF 4
AUTHORIZED BY: 1/20/14
ERIC CLINTON



INSTALL INSTRUCTION F/KB BOINGO

200313345
KB600068A
SHEET 4 OF 4
AUTHORIZED BY: 1/20/14
ERIC CLINTON



DETAIL 3

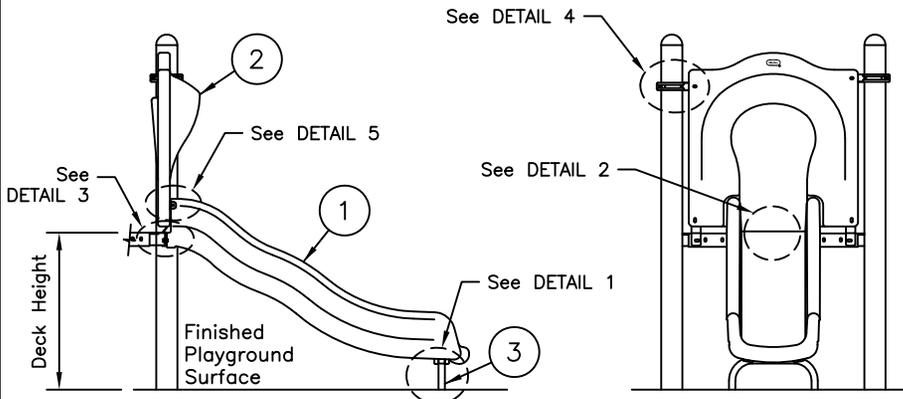
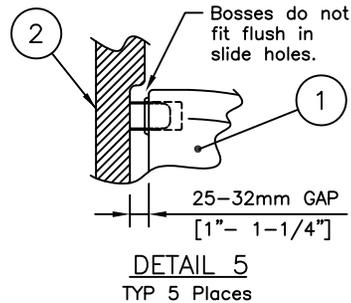
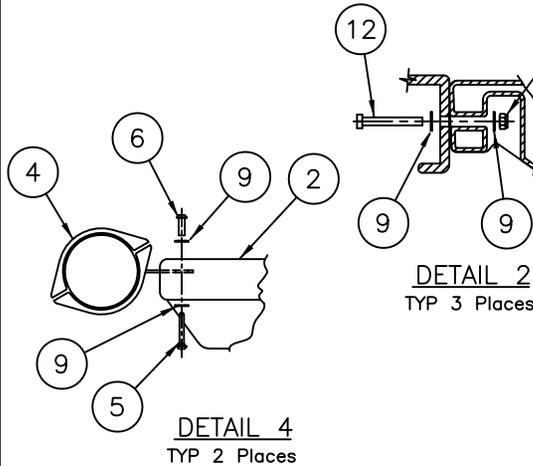
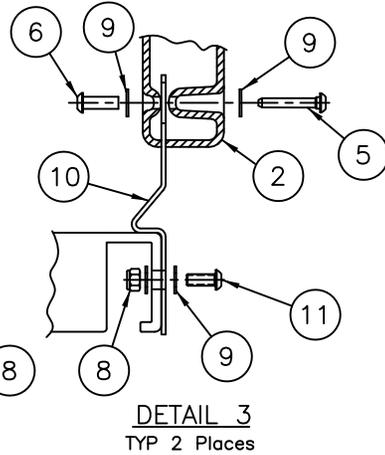
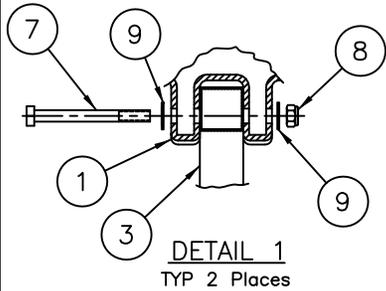


812/915/1016/1220 SINGLE WIDE WAVE SLIDES

200002756
KB700003F-S1
Sheet 1 of 2

AUTHORIZED BY: 12DEC14

Chris M. Newberry



NOTE: FOOTING LAYOUT ON SHEET 2

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

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

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

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

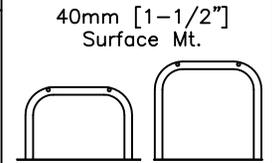
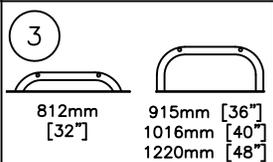
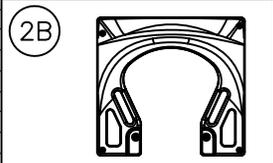
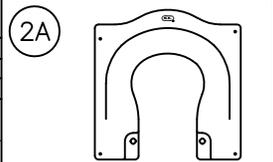
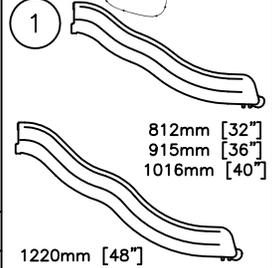
Item	Code	Description	Qty.
5	200002142	BOLT M8 X 1.25 MALE 57.5 mm	4
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	4
7	200001875	CAP SCREW HEX HEAD M10 1.50 X 110mm	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
9	200002079	WASHER FLAT M11 23 X 12 X 1.6 mm	22
11	200002018	SCREW MACH BUTTONHEAD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

Application

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

Installation Instructions

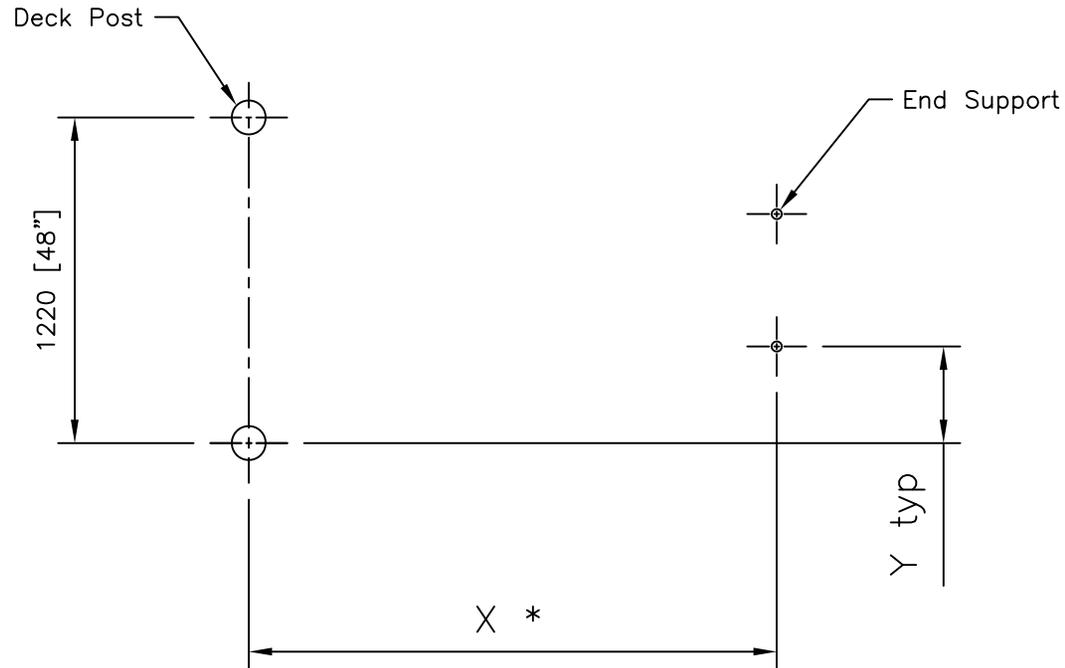
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1.
3. Place the support in the footing and attach the Slide to the deck edge as shown in DETAIL 2. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the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





AUTHORIZED BY: 12DEC14
Chris M. Newberry

Footing Layout



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

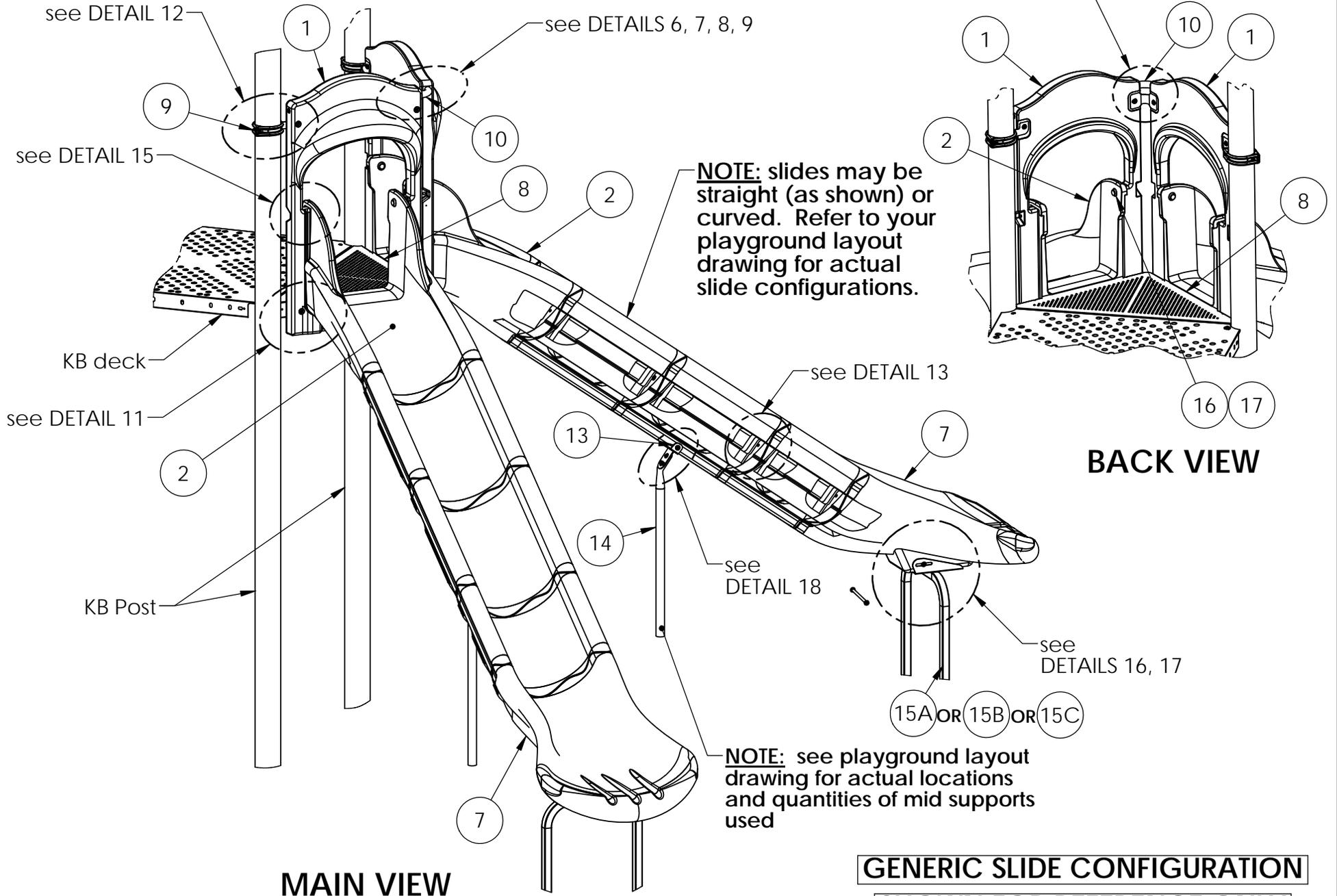
*Reference general information section in front of manual for slide installation information.

INST F/KB DUAL ENTRY QUANTUM II SLIDES

KB700078C

SHEET 1 OF 11

AUTHORIZED BY: 13JUL18
Tracy Archer



MAIN VIEW

BACK VIEW

GENERIC SLIDE CONFIGURATION

SHOWN FOR REFERENCE ONLY

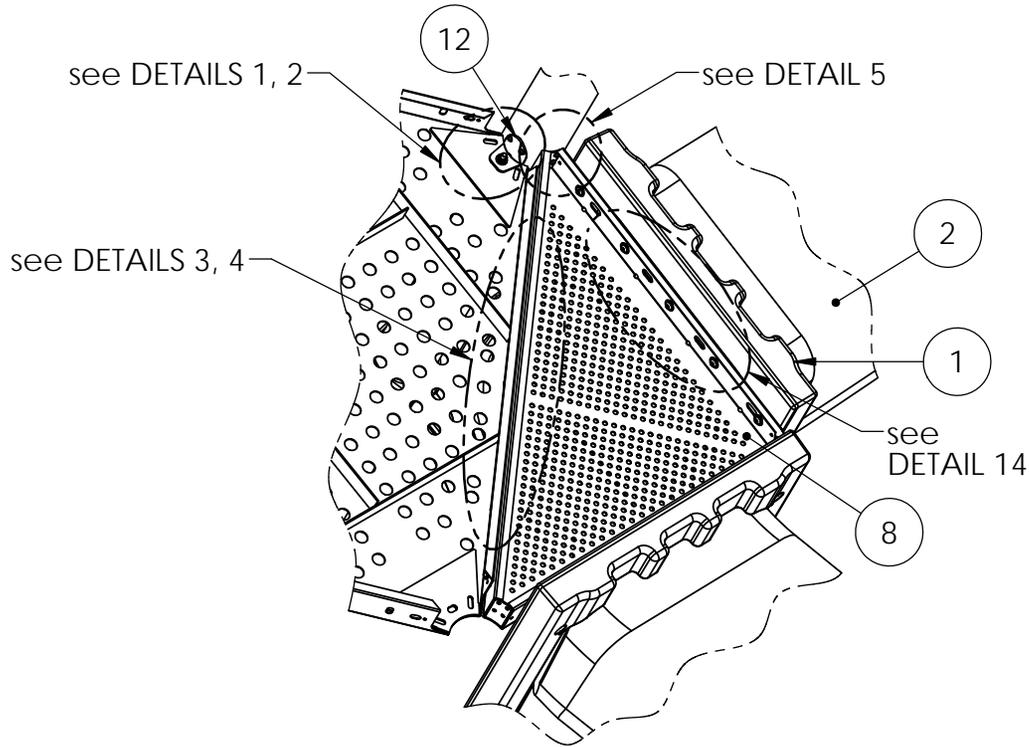
INST F/KB DUAL ENTRY QUANTUM II SLIDES

KB700078C

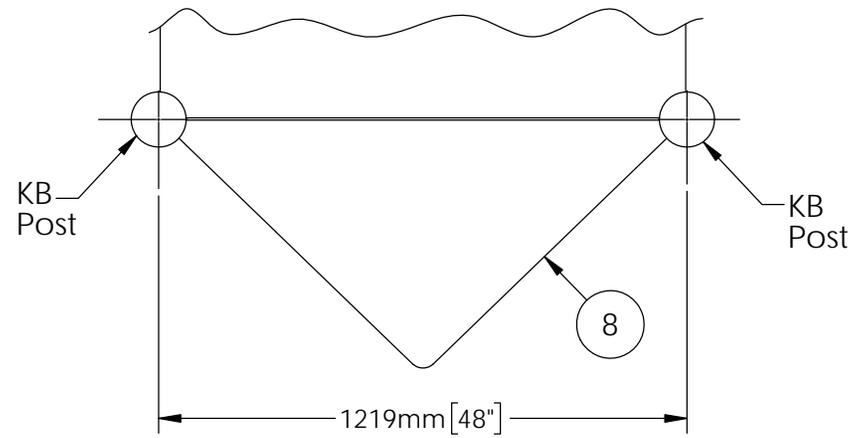
SHEET 2 OF 11

AUTHORIZED BY: 13JUL18

Tracy Archer



BOTTOM VIEW of DECK



POST FOOTING DIMENSIONS

KB DUAL ENTRY QUANTUM II SLIDES PARTS LIST

Item	Code	Description	Qty
1	997304P	LT NARROW HOOD F/2013 SECTIONAL SLIDE	2
2	997305P	LT START F/2013 SECTIONAL SLIDE	2
3	997303P	12" DROP F/2013 SECTIONAL SLIDE	*
4	997302P	16" DROP F/2013 SECTIONAL SLIDE	*
5	997306P	LOW BANK LEFT F/2013 SECTIONAL SLIDE	*
6	997307P	LOW BANK RIGHT F/2013 SECTIONAL SLIDE	*
7	997310P	RUNOUT F/2013 SECTIONAL SLIDE	2
8	998171P	DOUBLE HD DECK ASSY F/KB	1
9	909345P	ASSY CLAMP HI-LOW TAB F/KB	2
10	999191P	DUAL ENTRY TOP RAIL WELDMNT F/KB	1
11	906406P	DOUBLE ENTRY HOOD PLATE F/KB	1
12	998769P	NARROW HOOD DK POST BRKT F/KB	2
13	997357P	MID SUPP BRKT F/2013 SECT SLIDE	*
14	-	HB SPIRAL SUPPORT WLDMT (MID SUPPORT)	*
15A	997352P	RUNOUT SUPP F/2013 SECT SLIDE (SM 40MM)	2
15B	997353P	RUNOUT SUPP F/2013 SECT SLIDE (SM 305MM)	2
15C	997354P	RUNOUT SUPP F/2013 SECT SLIDE (ING)	2
16	910917P	CAP HARDWARE COVER	4
17	910918P	CAP HARDWARE BASE	4

* SEE PLAYGROUND LAYOUT DRAWING FOR SLIDE SECTIONS AND QUANTITIES USED

HARDWARE LIST

18	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	**
19	200002150	SCREW MACH BUTTONHEAD M10 X 1.50 X 55MM	6
20	200097726	SCREW MACH BUTTONHEAD M10 X 1.50 X 38MM	2
21	200308938	BOLT M8 X 1.25 MALE 90MM	**
22	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	**
23	200002133	BOLT M8 X 1.25 MALE 27.5MM	4
24	200002142	BOLT M8 X 1.25 MALE 57.5MM	**
25	300002750	SCREW T-27 TORX ROUND WASHER HD	12
26	200153311	ROD INT THREADED 1/2" S.S. 240MM-PARTS R	2
27	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	**
28	117007	DNO WASHER FLAT M11 32OD X 13ID X 2MM	2
29	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	**

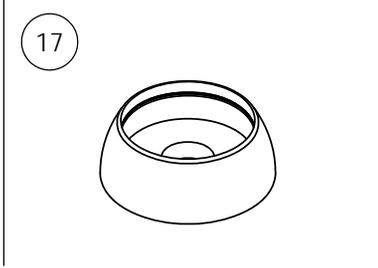
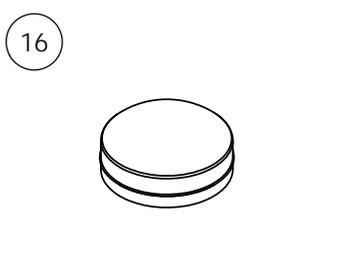
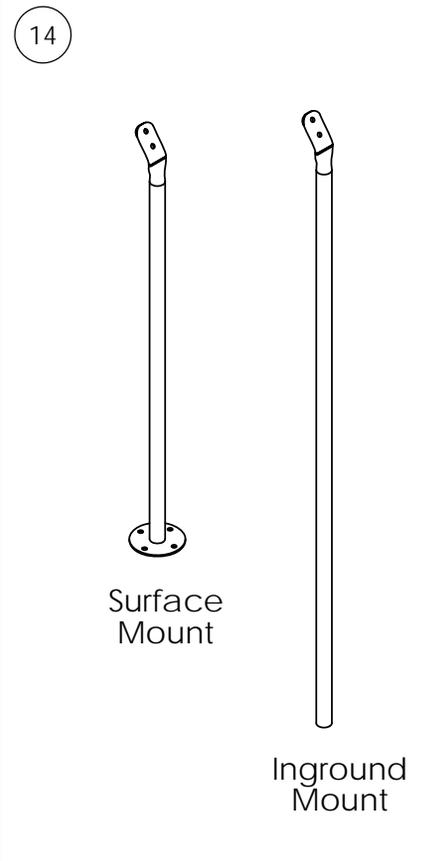
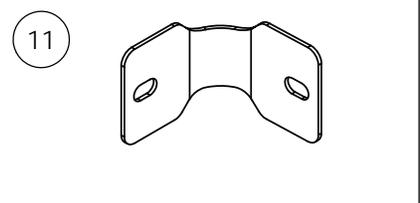
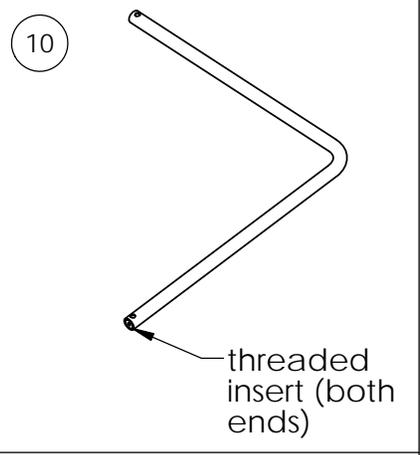
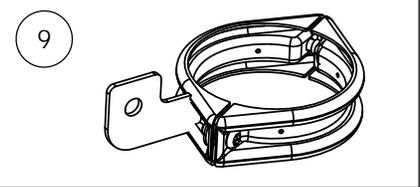
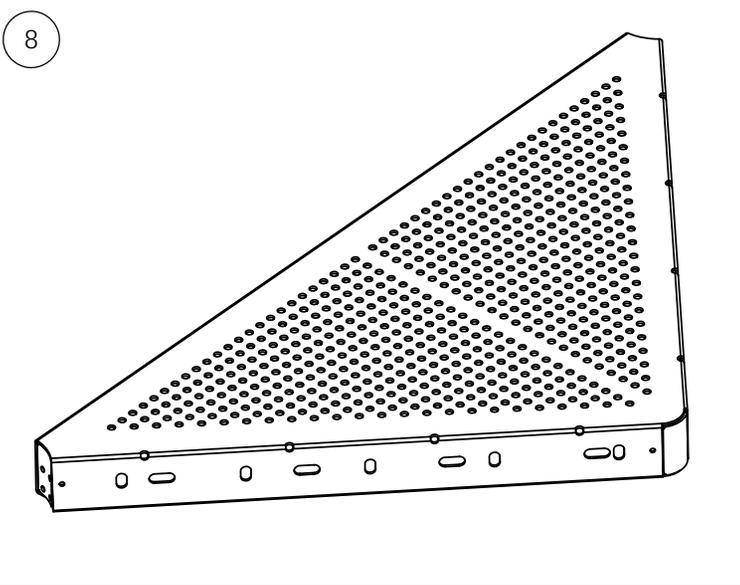
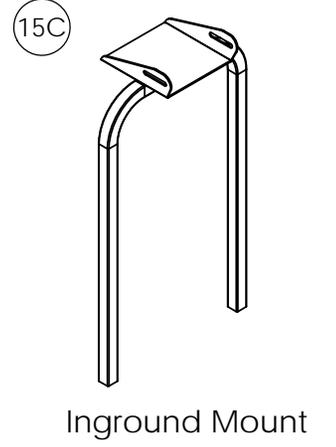
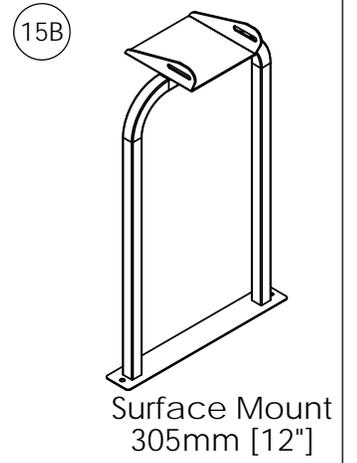
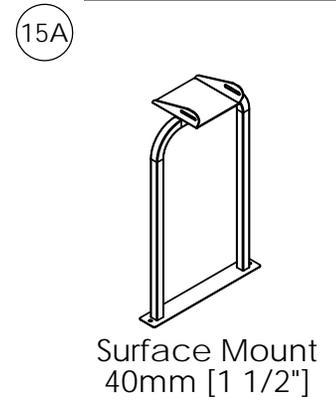
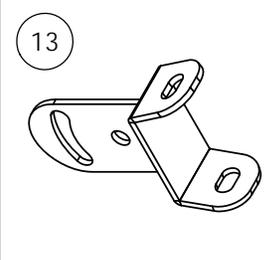
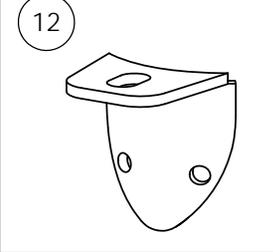
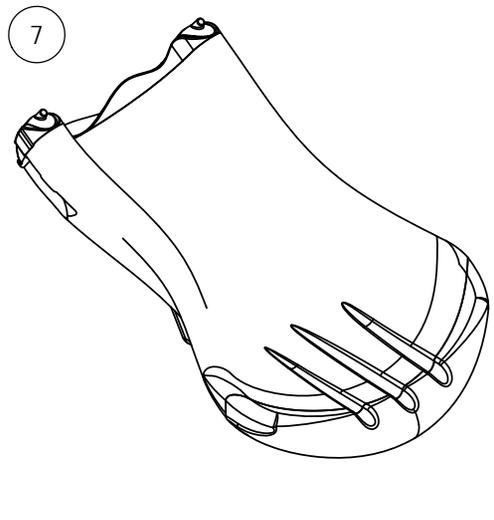
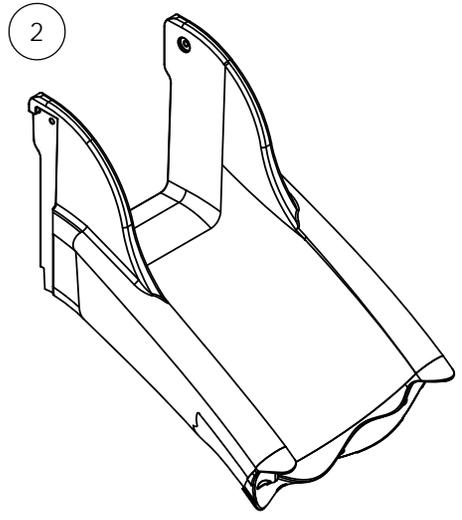
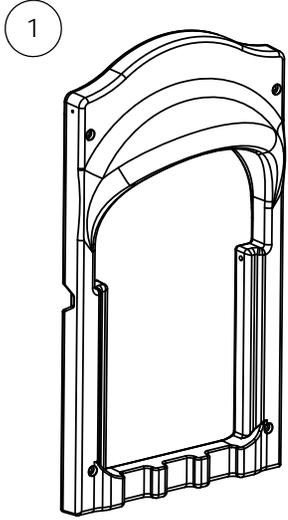
** QUANTITIES OF THESE ITEMS WILL VARY ACCORDING TO NUMBER OF SLIDE SECTIONS AND MID SUPPORTS USED.

INST F/KB DUAL ENTRY QUANTUM II SLIDES

KB700078C

SHEET 3 OF 11

AUTHORIZED BY:
Tracy Archer 13JUL18



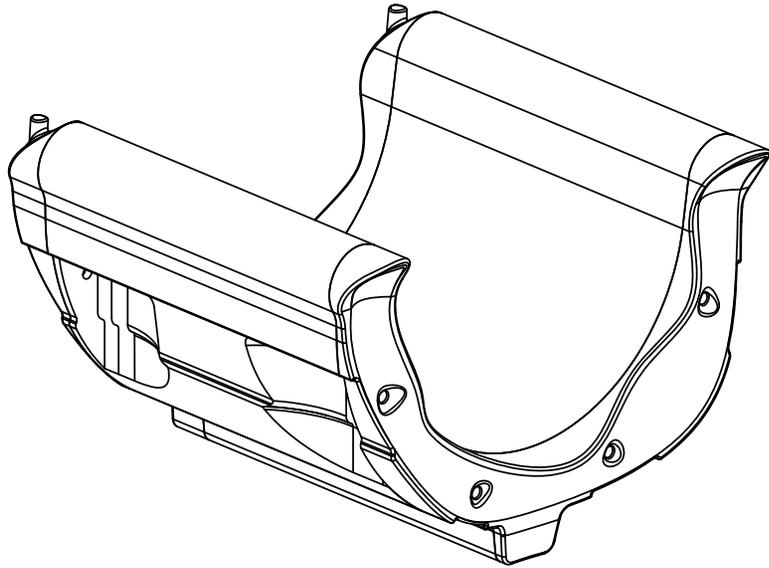
INST F/KB DUAL ENTRY QUANTUM II SLIDES

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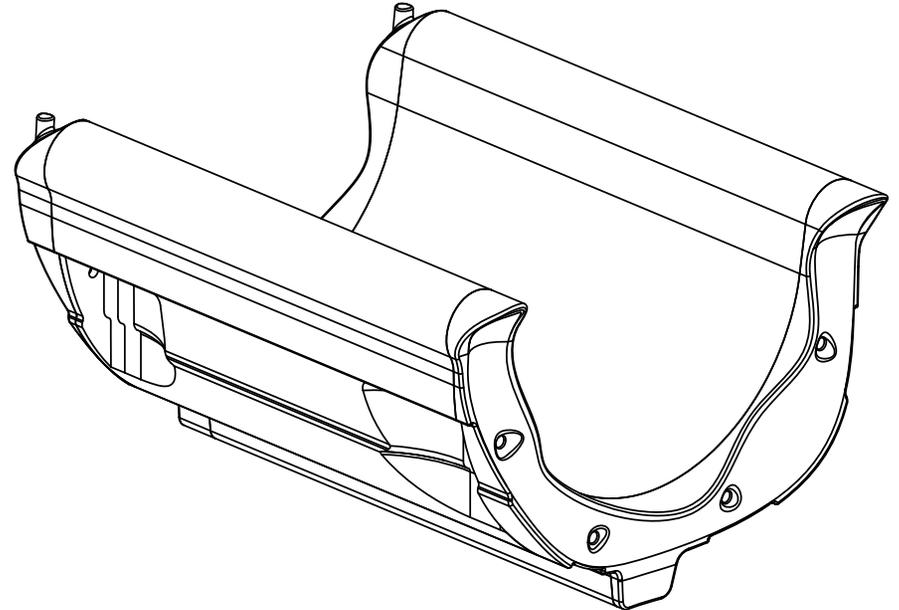
SHEET 4 OF 11

AUTHORIZED BY: 13JUL18
Tracy Archer

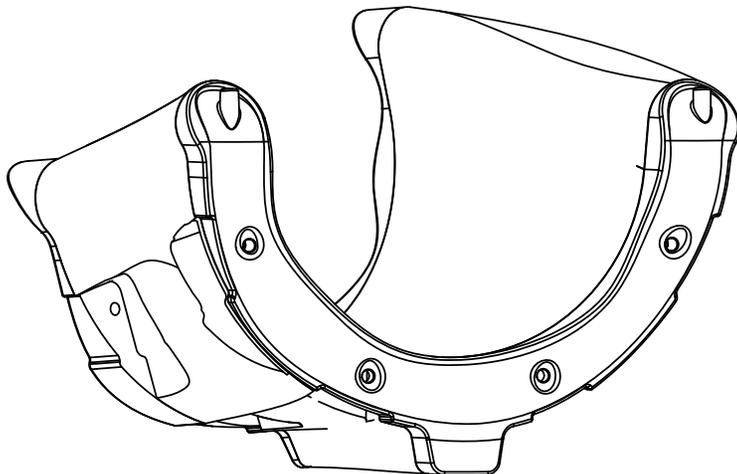
3 STRAIGHT 12"



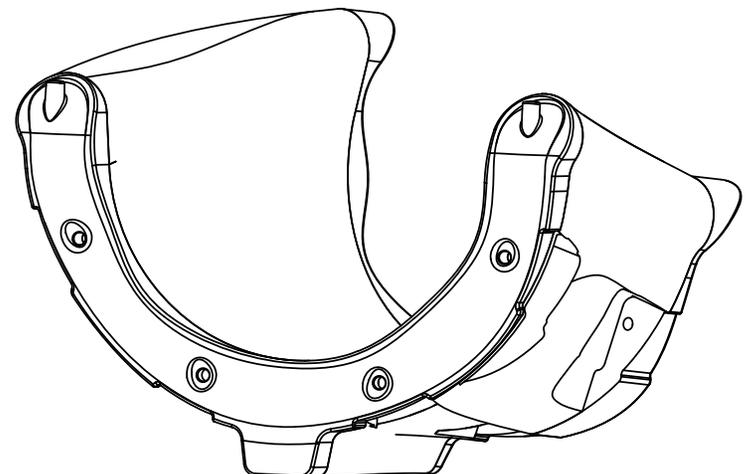
4 STRAIGHT 16"



5 BANK LOW LEFT



6 BANK LOW RIGHT



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

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

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

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

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

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

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

ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

Installation Instructions

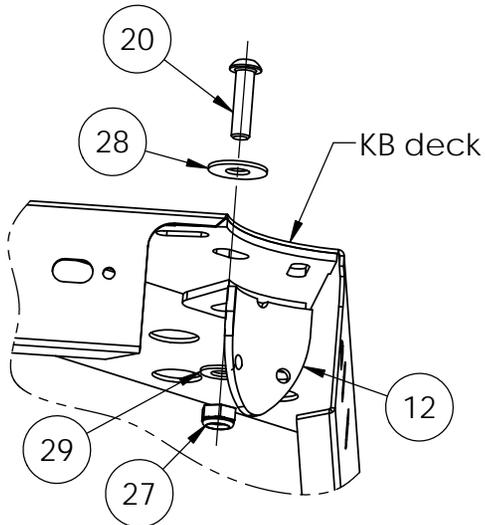
1. Loosely attach the Post brackets (item 12) to the corners of the KB deck as shown in DETAIL 1. Make sure top of KB deck is level. Attach the Post brackets to the posts as shown in DETAIL 2. **NOTE:** Post brackets replace the use of Deck clamps in this application.
2. Attach Double HD deck (item 8) to the front of the KB deck as shown in DETAILS 3 and 4. Make sure top of Double HD deck is level with KB deck before tightening hardware. Attach Double HD deck corners to posts as shown in DETAIL 5.
3. Locate the molded-in drill points on the top sides of the Narrow Hoods (item 1) and drill holes as shown in DETAILS 6, 7, 8 and 9. These holes are needed to install the Dual Entry Top Rail (item 10) inside the hoods. Insert the top rail through the large drilled holes and fasten with hardware through the small drilled holes as shown in DETAIL 6.
4. Loosely attach the hood plate (item 11) to the hoods as shown in DETAIL 10.
5. Loosely attach HI-LO clamps to posts, refer to front of manual for installation details.
6. Lift hood assembly to Narrow Deck and attach hoods to front side of Narrow Deck in four places as shown in DETAIL 11. Attach top of hoods to HI-LO clamps as shown in DETAIL 12.
7. Assemble the slide sections and runout on the ground, beginning with the Runout Section (item 7). Refer to your playground layout drawing for the type of slide sections used and the order in which they need to go together. The sections will actually "snap" together. A rubber mallet is recommended to apply a blunt force to make the "snap" connection. Install hardware as shown in DETAIL 13.
8. Lift assembled slide and attach Start slide section (item 2) to the front side of the Narrow deck as shown in DETAIL 14. Attach top of Start slide section to Hood as shown in DETAIL 15.
9. Position the Runout support (item 15A,B or C) under the runout section. **NOTE:** the Runout support is designed to allow for shrinkage during cool weather and expansion during warm weather. Consider the ambient air temperature when installing this slide. See DETAIL 16 for where to install hardware. Install hardware as shown in DETAIL 17.
10. See your playground layout drawing to determine which slide sections the Mid supports will be attached to. Position the Mid support bracket (item 13) on the bottom center of the slide section and, using the Mid support bracket as a template, drill a \varnothing 13mm [1/2"] hole through both walls of the plastic slide section and install the bracket hardware as shown in DETAIL 18.
11. Install the Mid supports to the brackets as shown in DETAIL 18.
12. Tighten all hardware and install post clamp drive pins. Complete the footings, and install resilient surfacing.

INST F/KB DUAL ENTRY QUANTUM II SLIDES

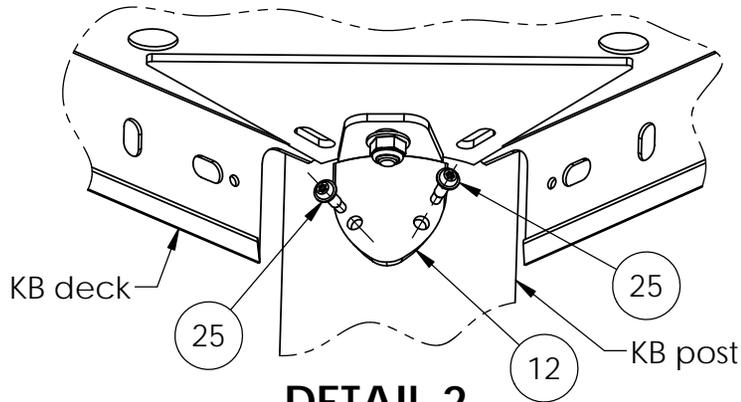
KB700078C

SHEET 7 OF 11

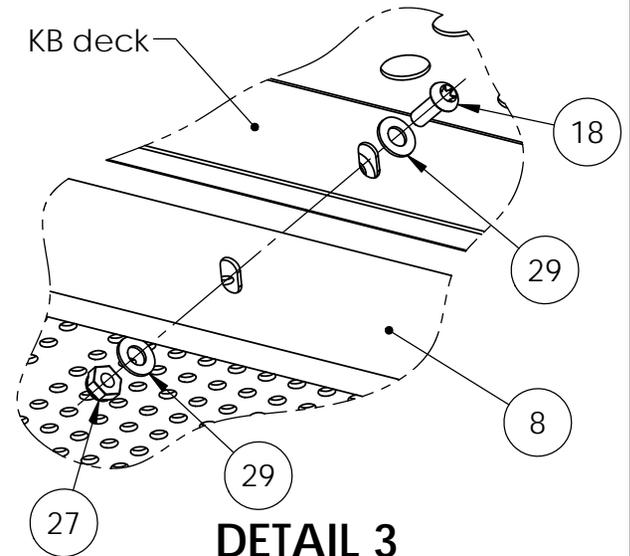
AUTHORIZED BY: 13JUL18
Tracy Archer



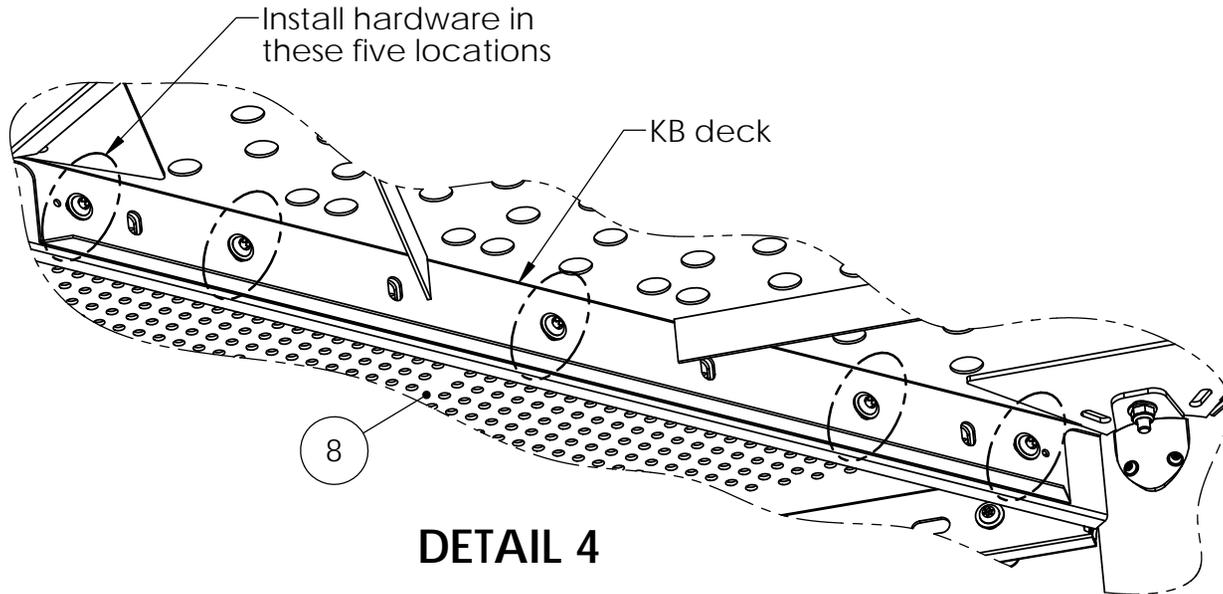
DETAIL 1
Typ 2 Places



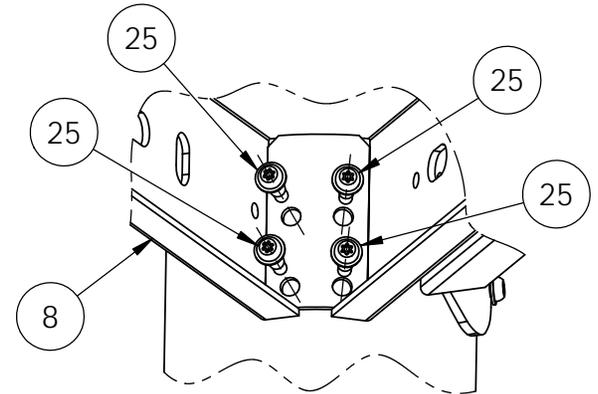
DETAIL 2
Typ 2 Places



DETAIL 3
Typ 5 Places



DETAIL 4



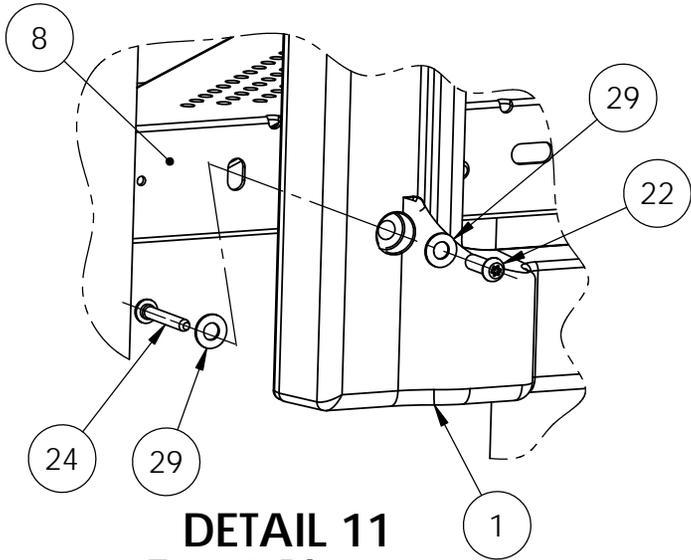
DETAIL 5
Typ 2 Places

INST F/KB DUAL ENTRY QUANTUM II SLIDES

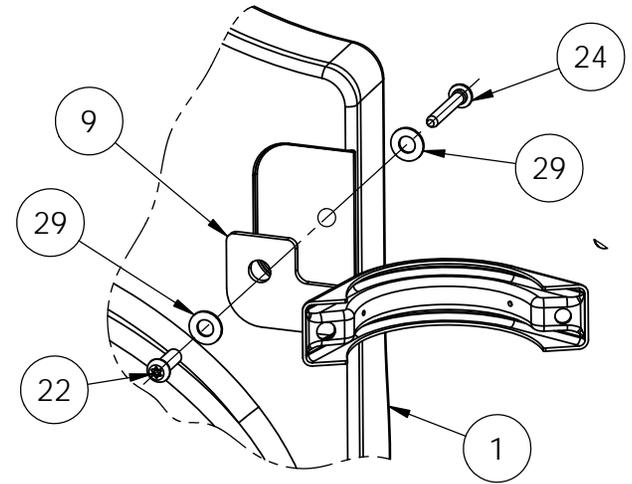
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SHEET 9 OF 11

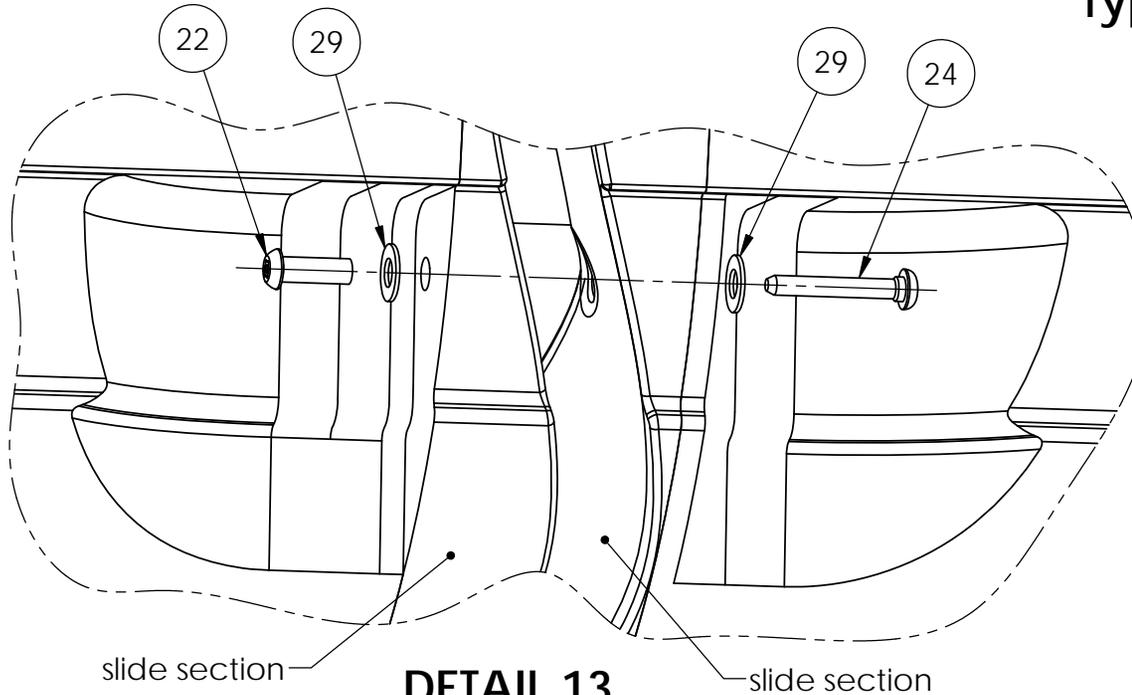
AUTHORIZED BY:
Tracy Archer 13JUL18



DETAIL 11
Typ 4 Places



DETAIL 12
Typ 2 Places



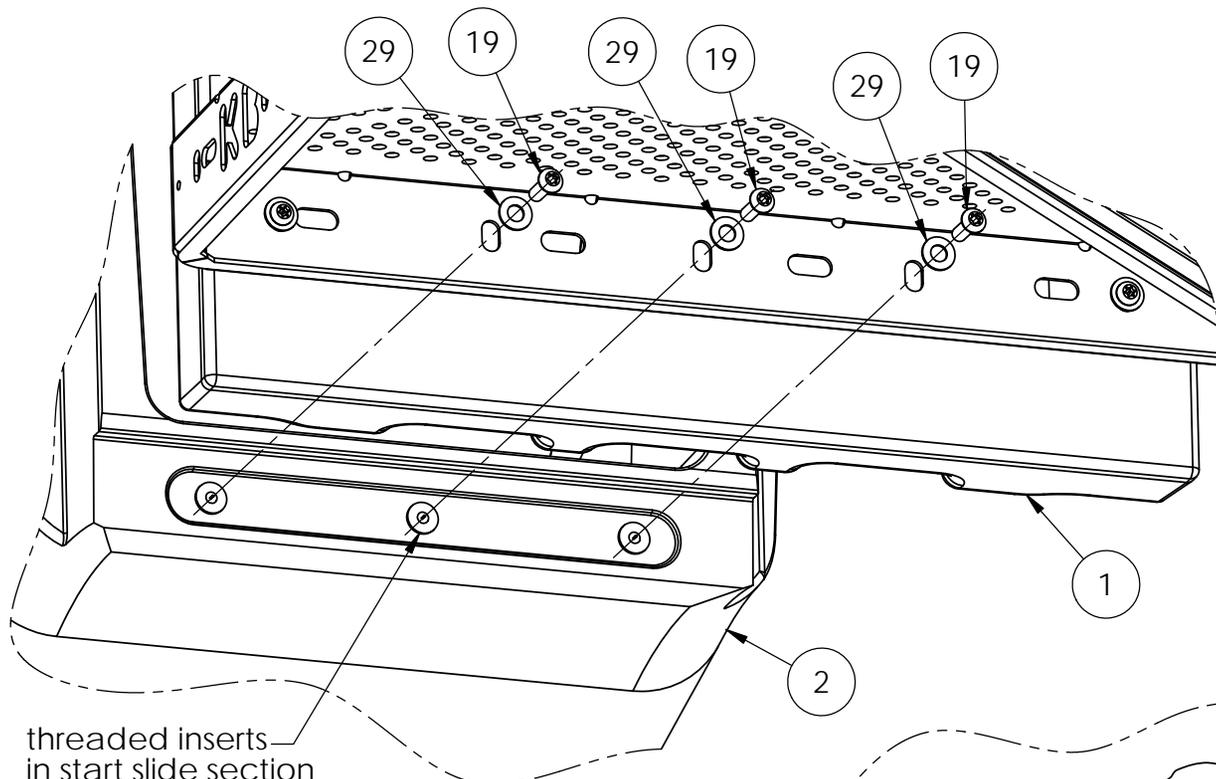
DETAIL 13
Typ 4 Places per slide section connection

INST F/KB DUAL ENTRY QUANTUM II SLIDES

KB700078C

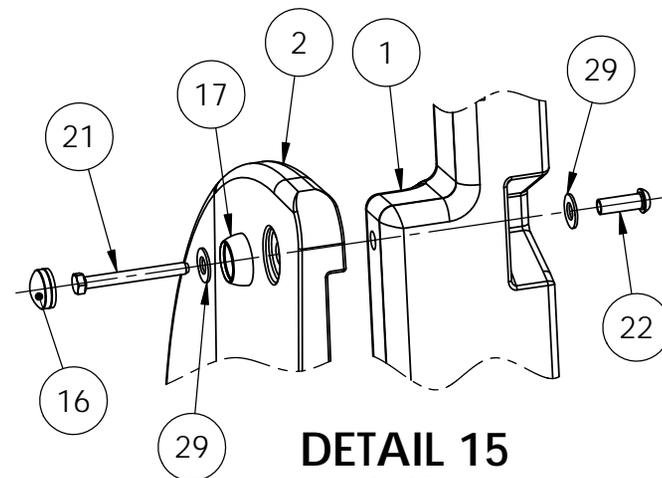
SHEET 10 OF 11

AUTHORIZED BY: Tracy Archer 13JUL18

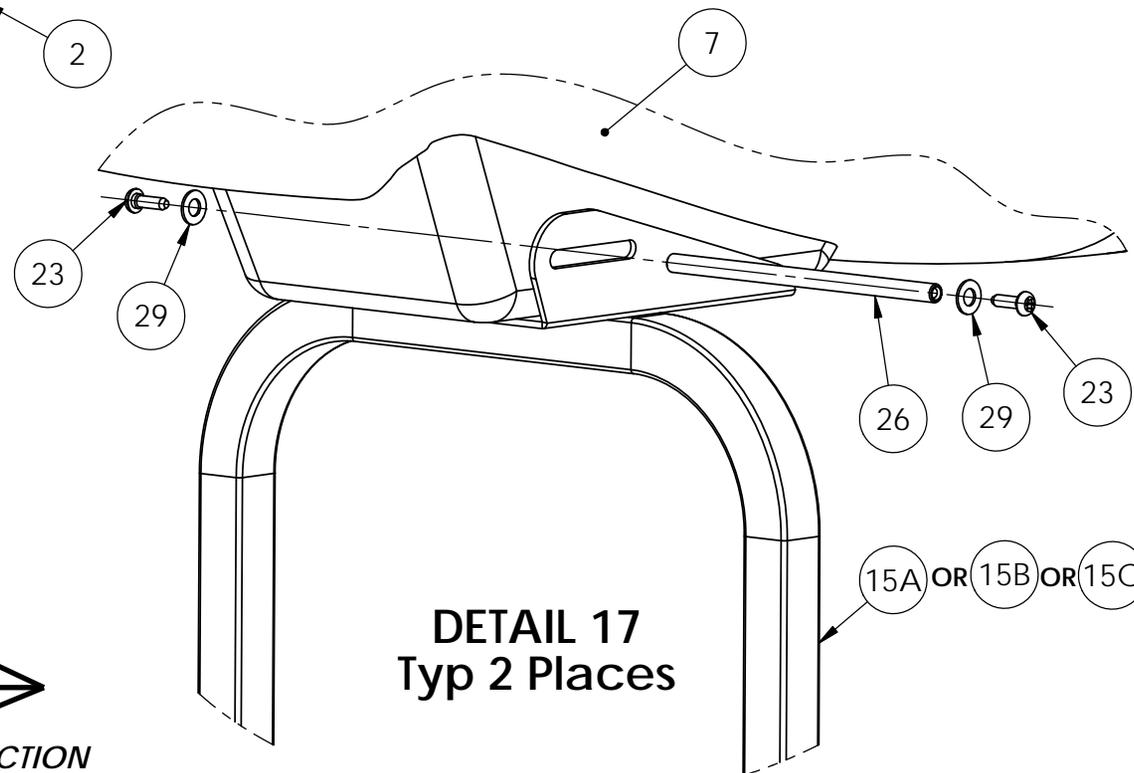


threaded inserts
in start slide section
(item 2)

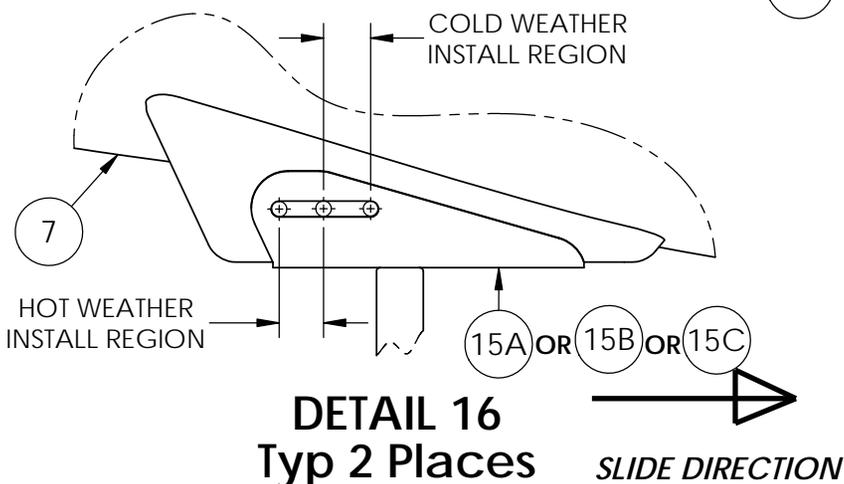
DETAIL 14
Typ 2 Places



DETAIL 15
Typ 4 Places



DETAIL 17
Typ 2 Places



DETAIL 16
Typ 2 Places

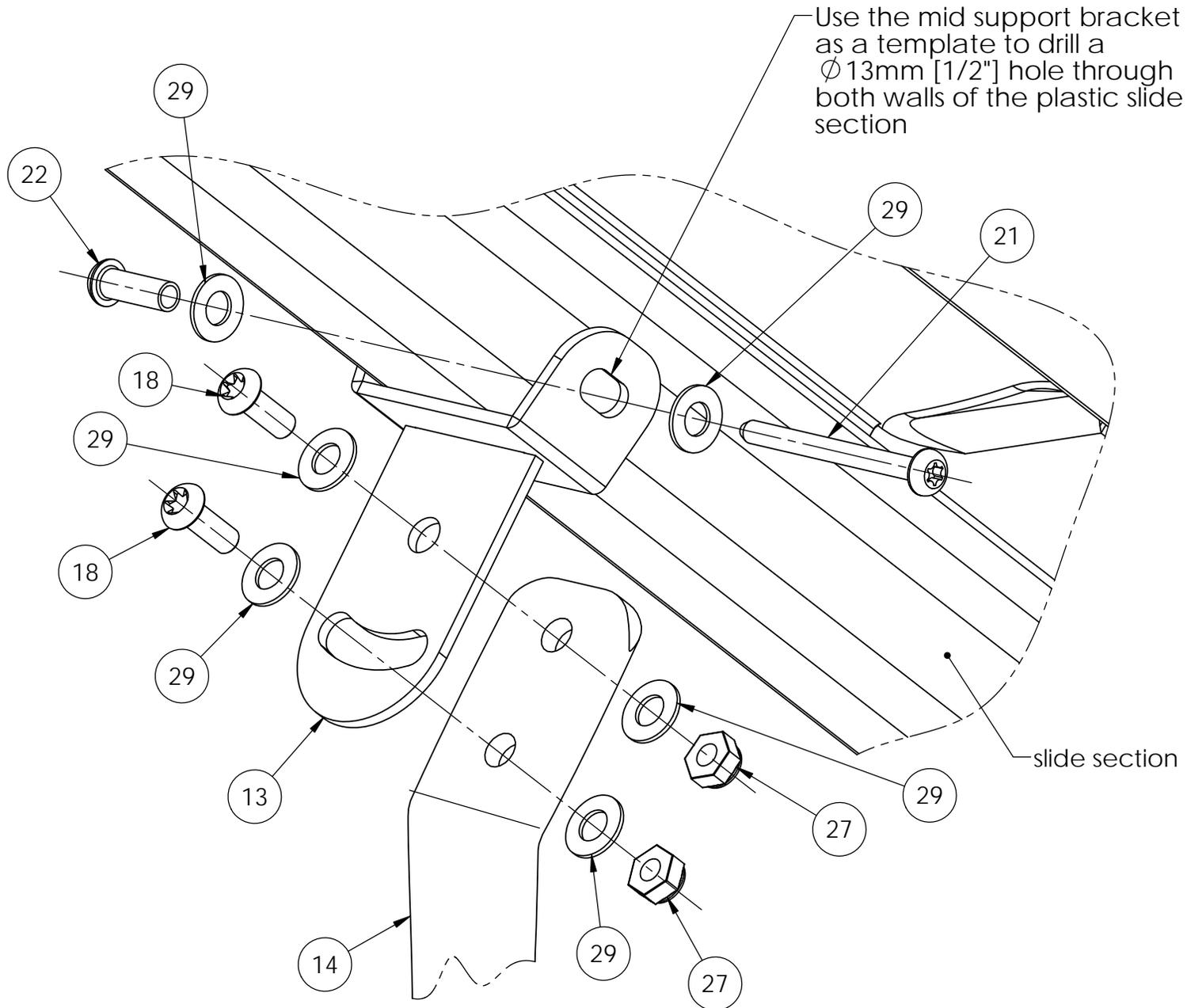
SLIDE DIRECTION

INST F/KB DUAL ENTRY QUANTUM II SLIDES

KB700078C

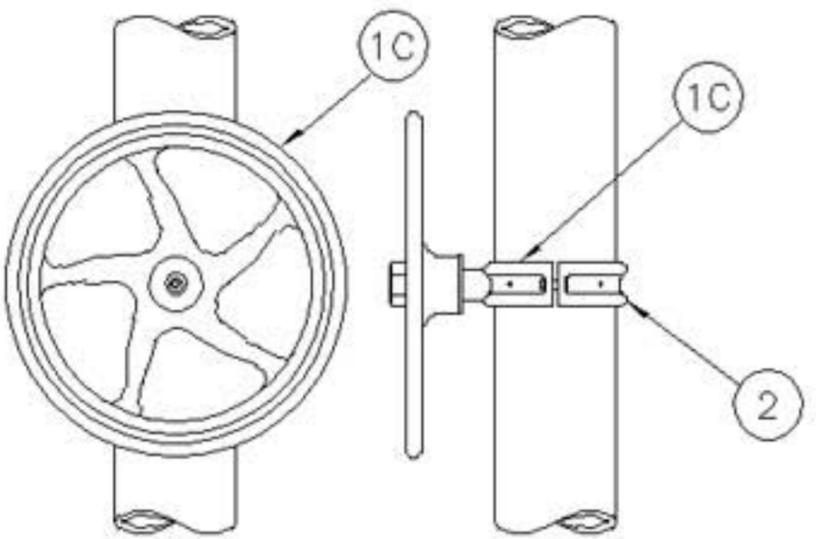
SHEET 11 OF 11

AUTHORIZED BY: 13JUL18
Tracy Archer

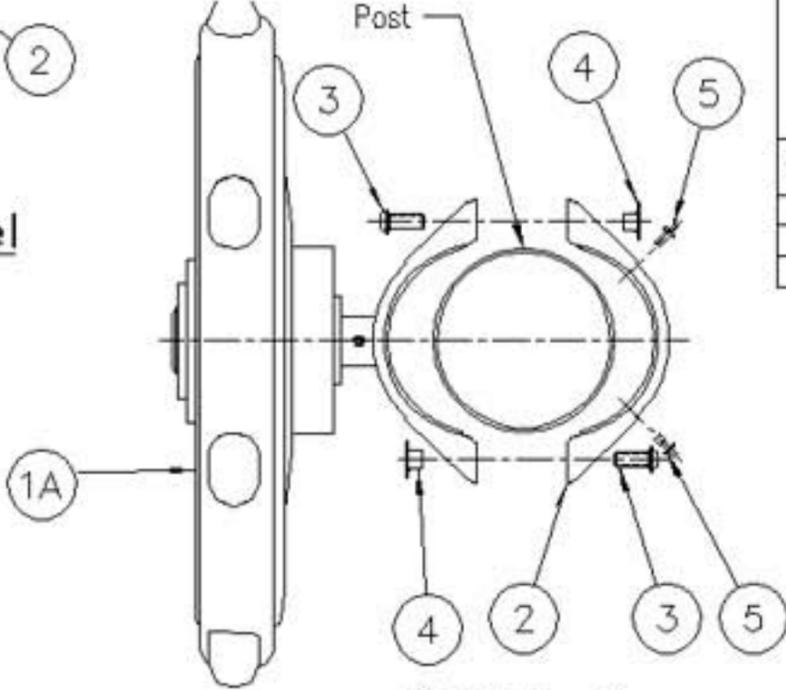


DETAIL 18

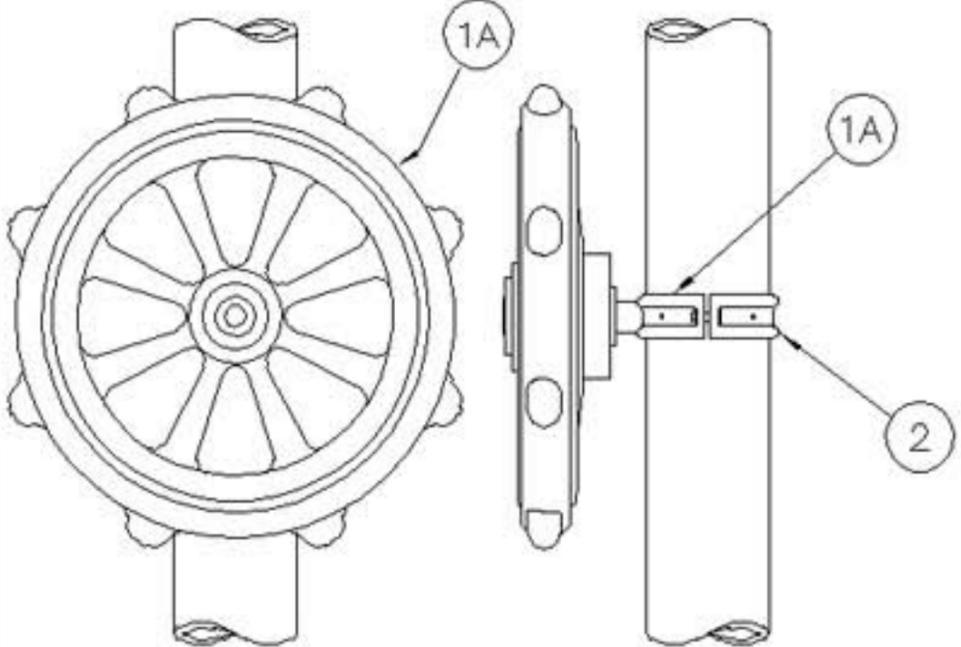
AUTHORIZED BY: 16JUN08
Shawn Slickard



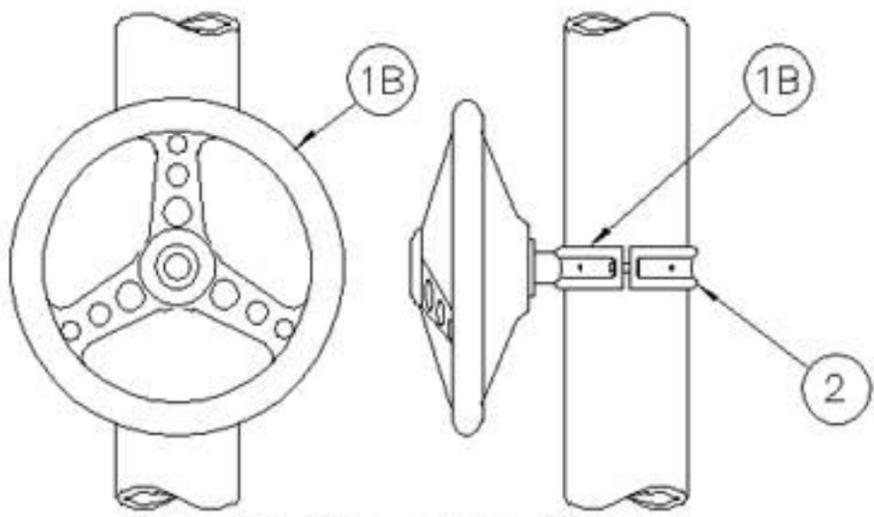
Aluminum Steering Wheel



DETAIL 1
(Ship Wheel Shown)



Ship Steering Wheel



Plastic Steering Wheel

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

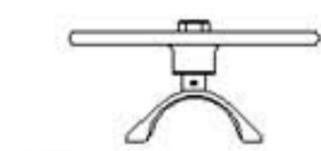
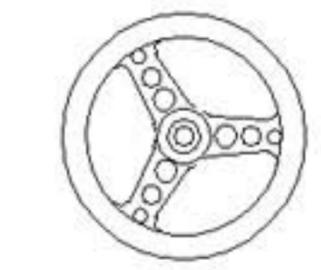
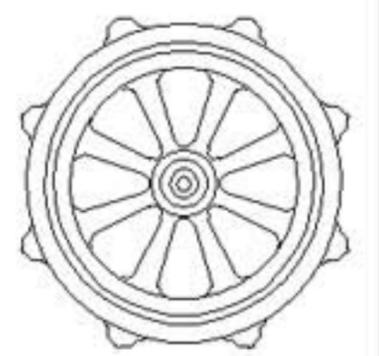
Item	Code	Description	Qty.
1A	-	ASSY. POST MT. f/SHIP STEER WHEEL	1
1B	-	ASSY. POST MT. f/PL. STEER WHEEL	
1C	-	ASSY. POST MT. f/AL. STEER WHEEL	
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1

HDWR BAG F/POST MT. STEERING WHEELS
200145769

Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11mm	2

Installation Instructions

- Loosely attach clamp half (item 2) and Assy. Post Mt. f/Steer Wheel (item 1) to post. (Refer to front of manual for clamp installation detail.)
- Position at correct height and orientation, then tighten hardware.



1C

AUTHORIZED BY: 17JUN08
Shawn Slinhard

POLYETHYLENE COUNTER PANEL 200007096

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

HDWR BAG SS F/KB DOOR/COUNTER PANELS 200007591

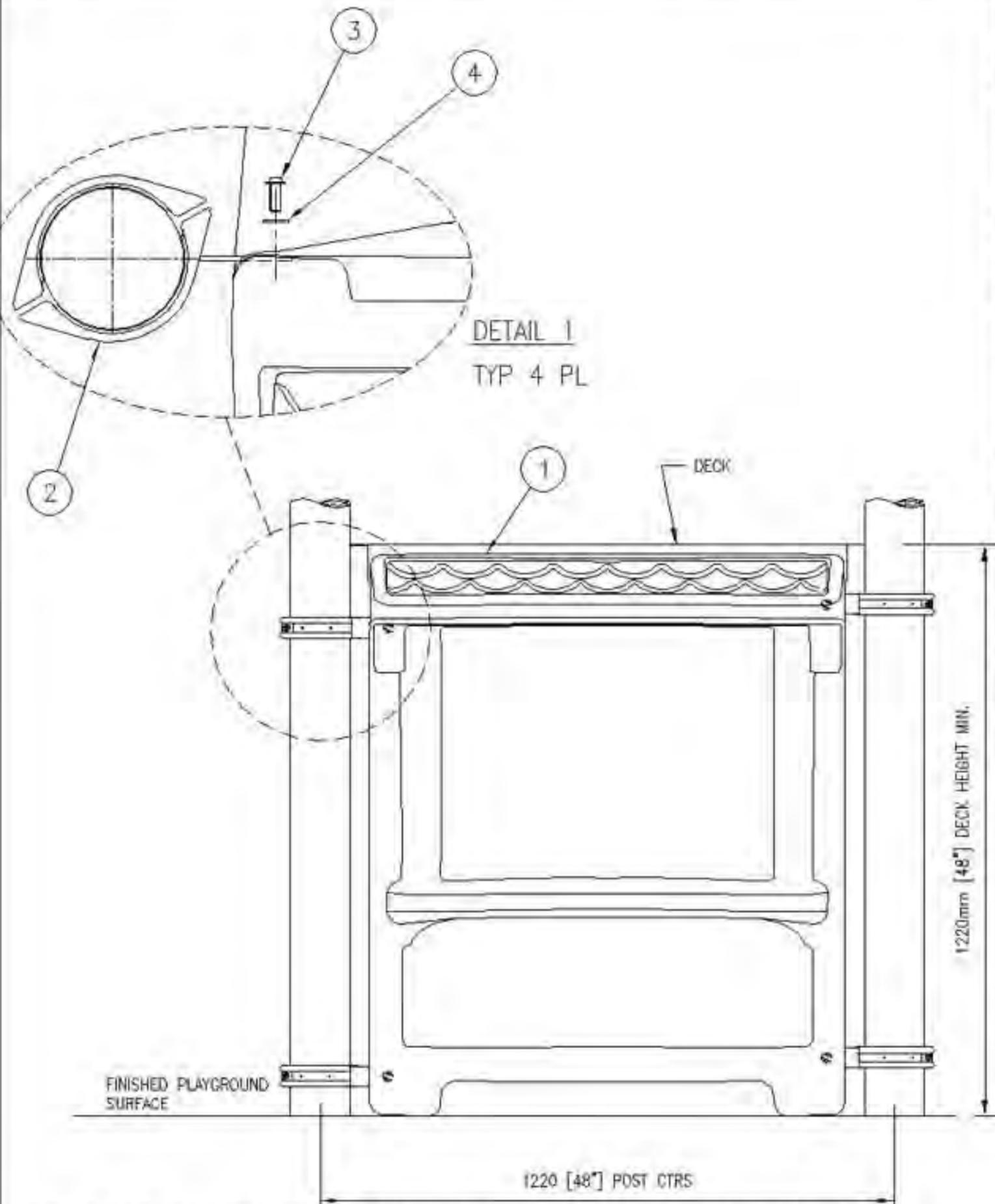
Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25mm	4
4	200002079	WASHER FLAT M11 23 X 12 X 1.6 (650012000)	4

Application AGE GROUPS (2-12 YEAR OLDS)

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

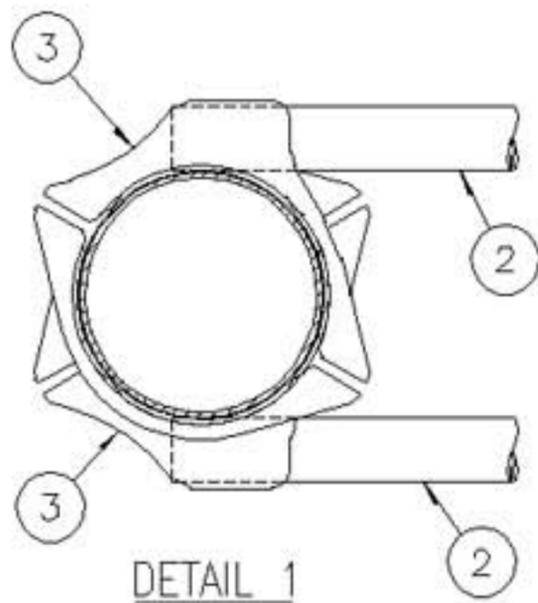
Installation Instructions

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

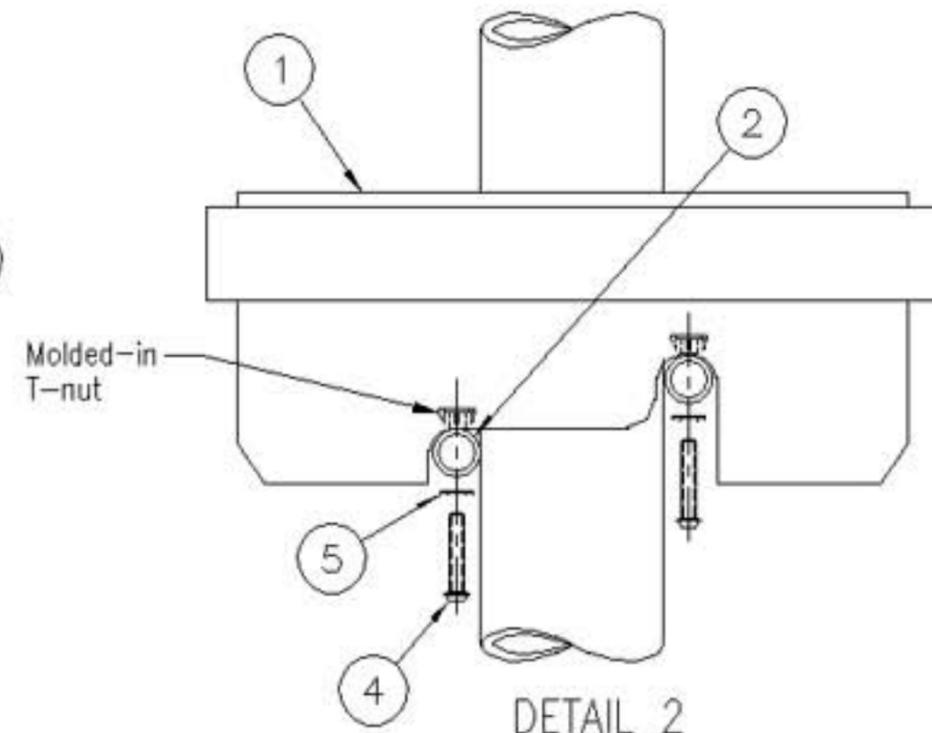


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

AUTHORIZED BY: 17JUN08
Shawn Siskard



DETAIL 1
Typ 2 Places



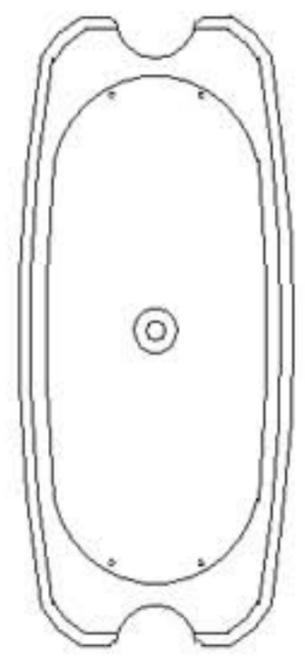
DETAIL 2
Typ 2 Places
(Near post and clamps removed for clarity)

**PANEL ADJUSTABLE COUNTER KB
200007097**

Item	Code	Description	Qty.
1	-	PANEL ADJUSTABLE COUNTER F/KB	1
2	200000971	RAIL SUPP. F/KB ADJ. COUNTER BRN	2
3	-	HOODED RAIL CLAMP	4

**HDWR BAG F/KB ADJ. COUNTER PANEL
200007593**

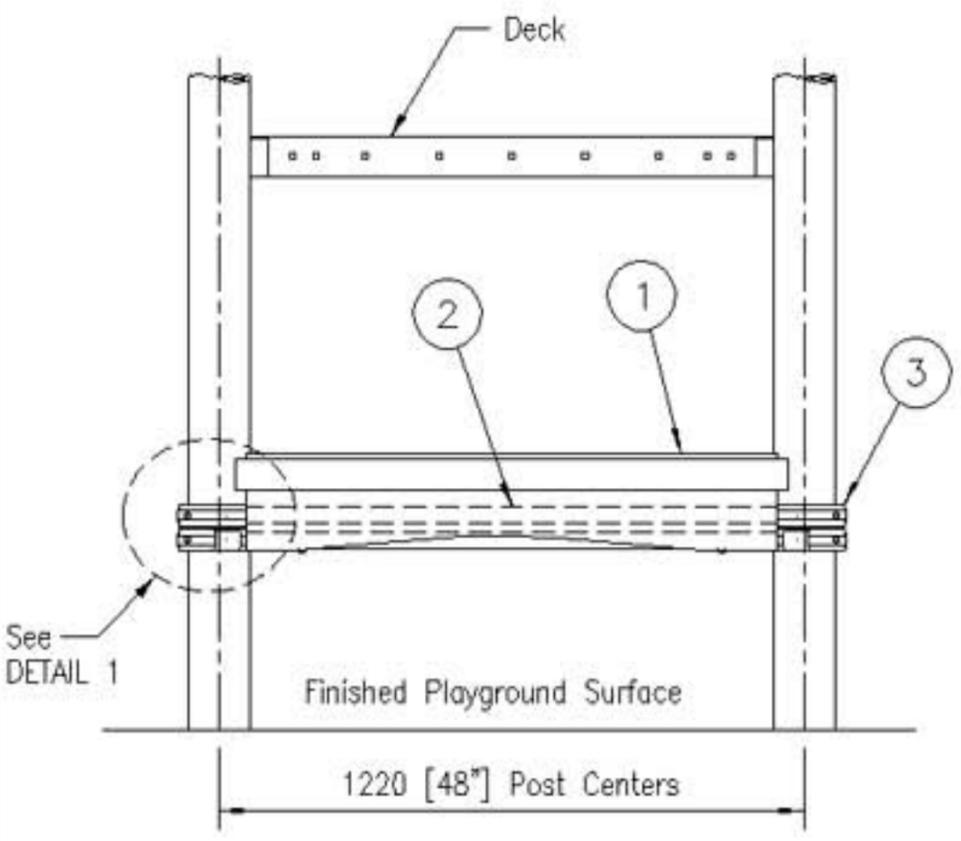
Item	Code	Description	Qty.
4	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	4
5	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4



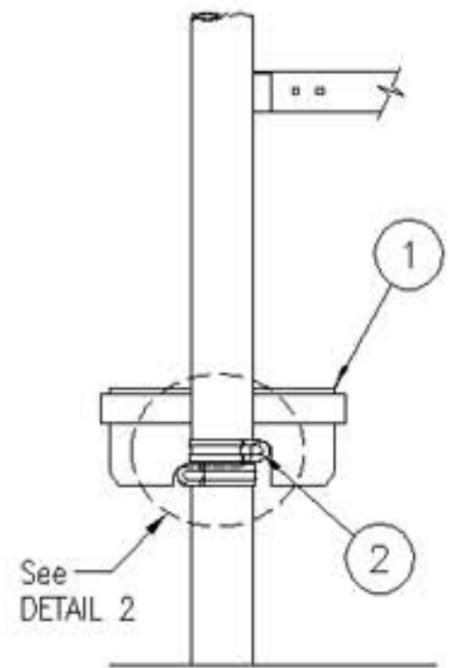
1

- Application**
- Age groups: 2 - 12 year olds
 - For Kid Builders structures only
 - For below deck use only
 - Cannot be used as an enclosure

- Installation Instructions**
1. Insert the ends of both rails into the hooded clamp halves and loosely attach clamps to posts (refer to DETAIL 1 and to front of manual for clamp installation detail). One clamp will be stacked on top of the other.
 2. Lower the adjustable counter panel onto the rails and attach with hardware (refer to DETAIL 2). Some fine adjustment may be required for a snug fit.
 3. Position at proper height, tighten all hardware and install clamp drive pins.



1220 [48"] Post Centers

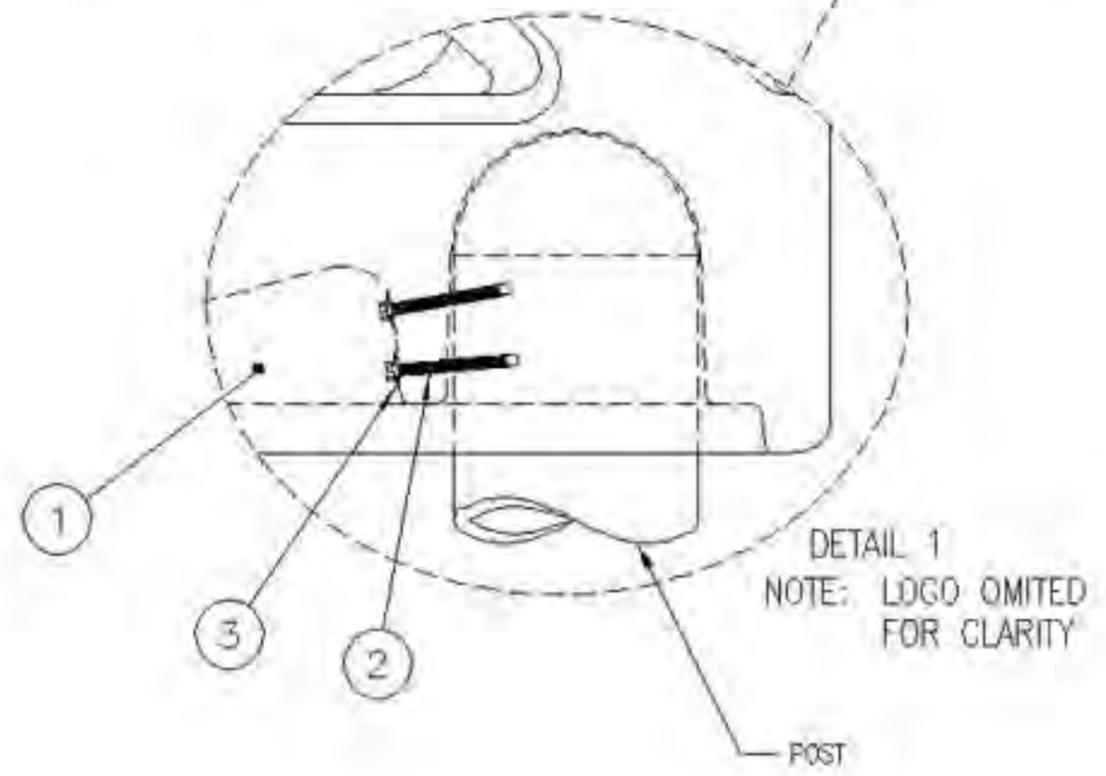
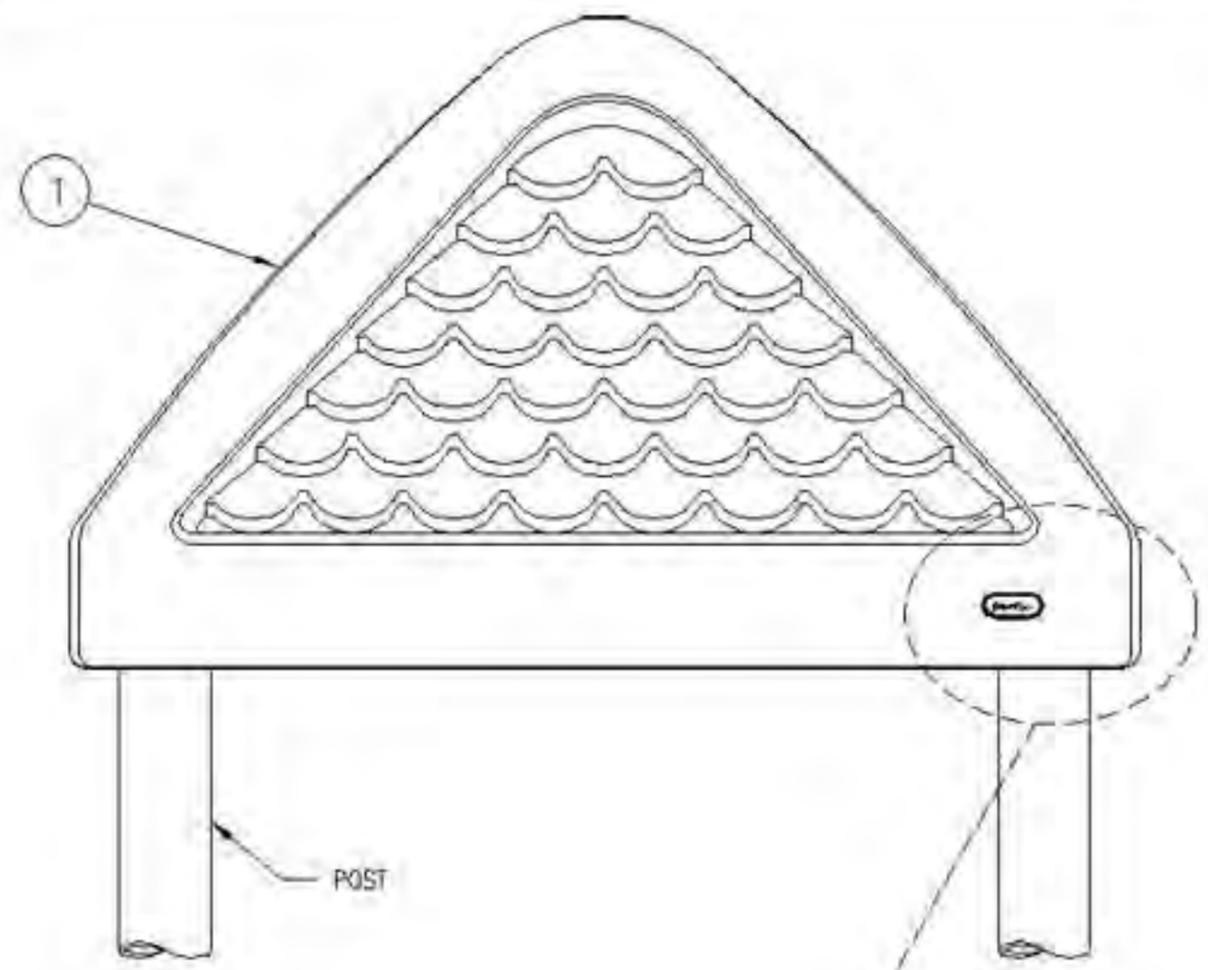


See DETAIL 2



2

AUTHORIZED BY
Chris M. [Signature] 47JAN01



SQUARE ROOF
200007137

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

Application AGE GROUPS (2-12 YEAR OLDS)

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

Installation Instructions

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



1



Project Number: R0324200244

PlayArea: RiskSign_Included | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 3/23/2020 12:00:00 AM

Risk Management Sign

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

Models included in this installation guide:

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



Note:

- *English version shown.*
- *An (*) by part numbers indicate: Color Code Required.*

Risk Management Sign

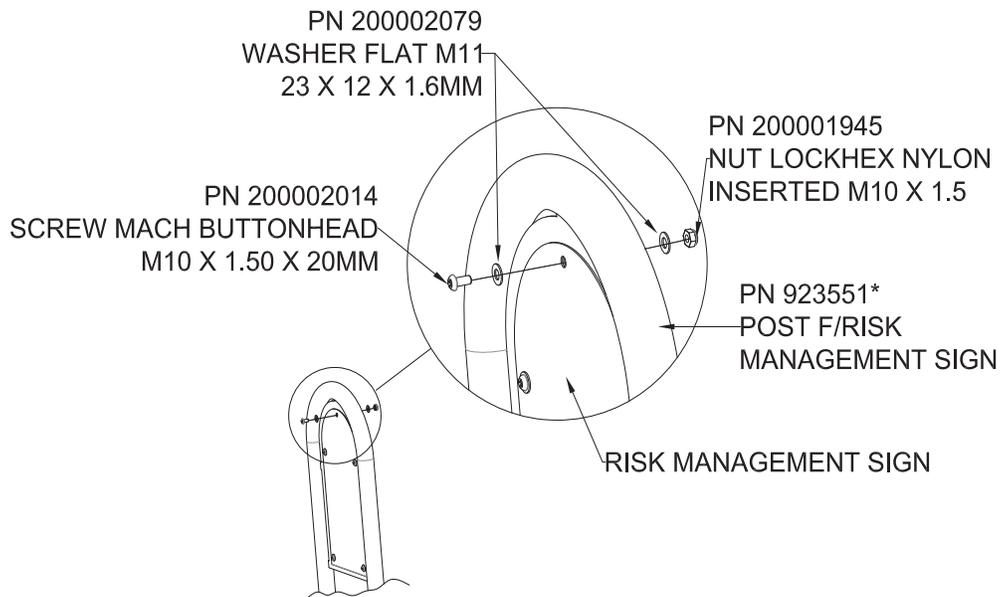
STEP 1 ATTACH AGE-APPROPRIATE STICKER

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



STEP 2 ATTACH SIGN TO POST FRAME

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

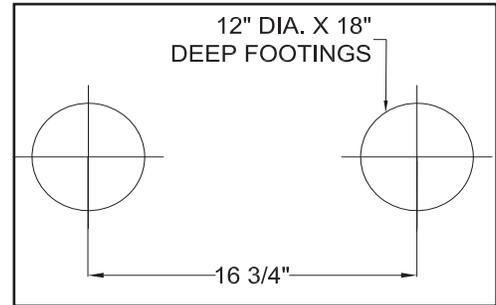


Risk Management Sign

STEP 3 DIG FOOTINGS

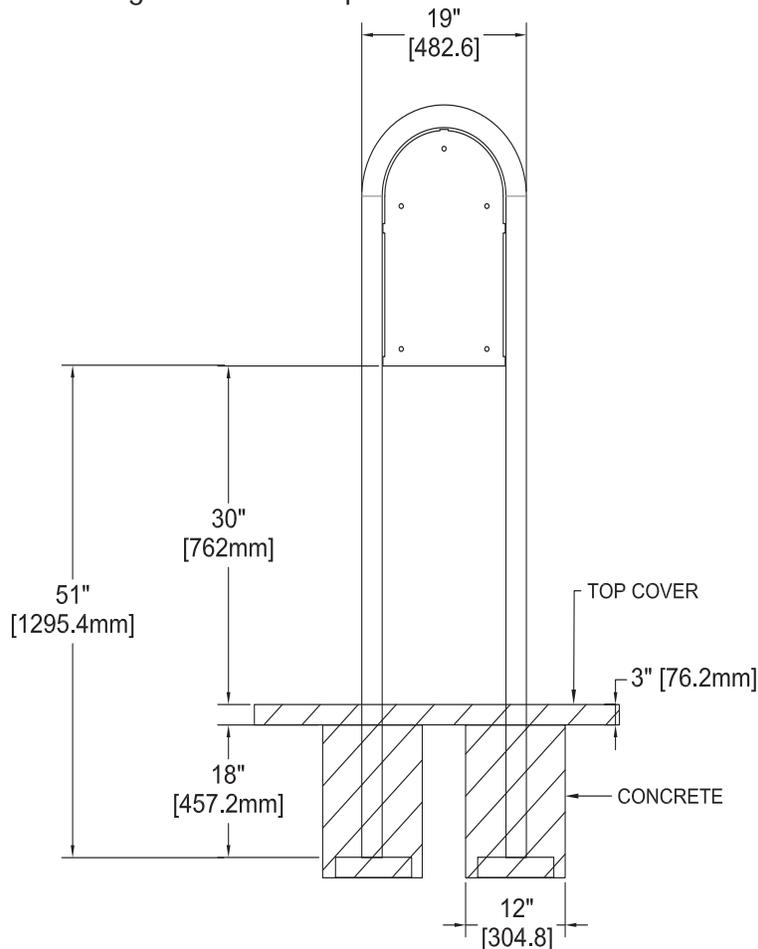
3a. Dig footings per *Footing Layouts*, *Construction Drawings*, and *Footing Details* installation.

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



STEP 4 SET SIGN IN FOOTINGS - OUTSIDE PLAY AREA

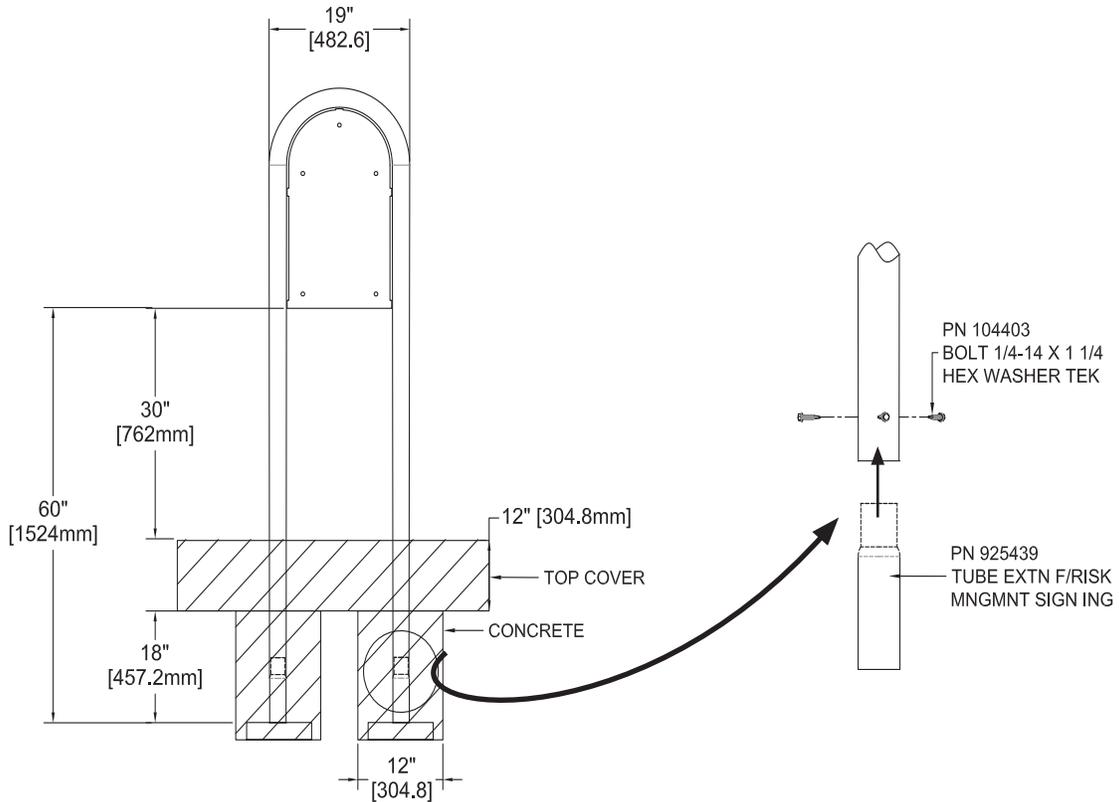
- 4a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 4b. Set risk management sign in footings per *Construction Drawings* pour concrete; plumb sign in footings and brace in position until concrete is cured.



Risk Management Sign

STEP 5 SET SIGN IN FOOTINGS - INSIDE PLAY AREA

- 5a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 5b. Insert the 10" tube extension into the risk management sign; use a rubber mallet, if needed, to swage the extensions for a tight fit; secure with Tek screws.
- 5c. Set the sign in the footings per Construction Drawings and pour concrete; plumb sign in footings and brace in position until concrete is cured.



FINAL STEP

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

Risk Management Sign

Bill of Material

Model 787

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923560	PC F/787 RISK MNGMT ENGLISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK

HW923551-1

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

Model 787FR

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923558	PC F/787FR RISK MNGMT FRENCH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHER TEK

HW923551-1

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

Risk Management Sign

Bill of Material cont.

Model 787SP

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923559	PC F/787SP RISK MNGMT SPANISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHR TEK

HW923551-1

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



Project Number: R0324200244

PlayArea: PlayArea_1 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 3/23/2020 12:00:00 AM

TOT SWING SEAT

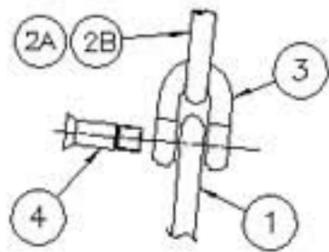
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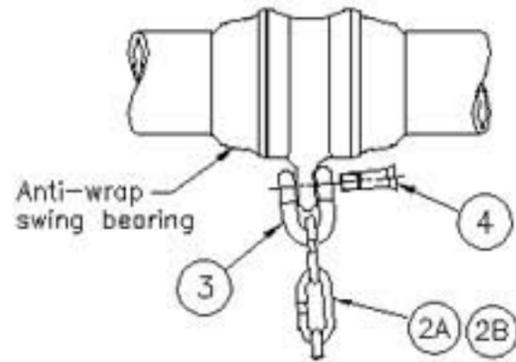
Sheet 1 of 1

AUTHORIZED BY: 14APR14

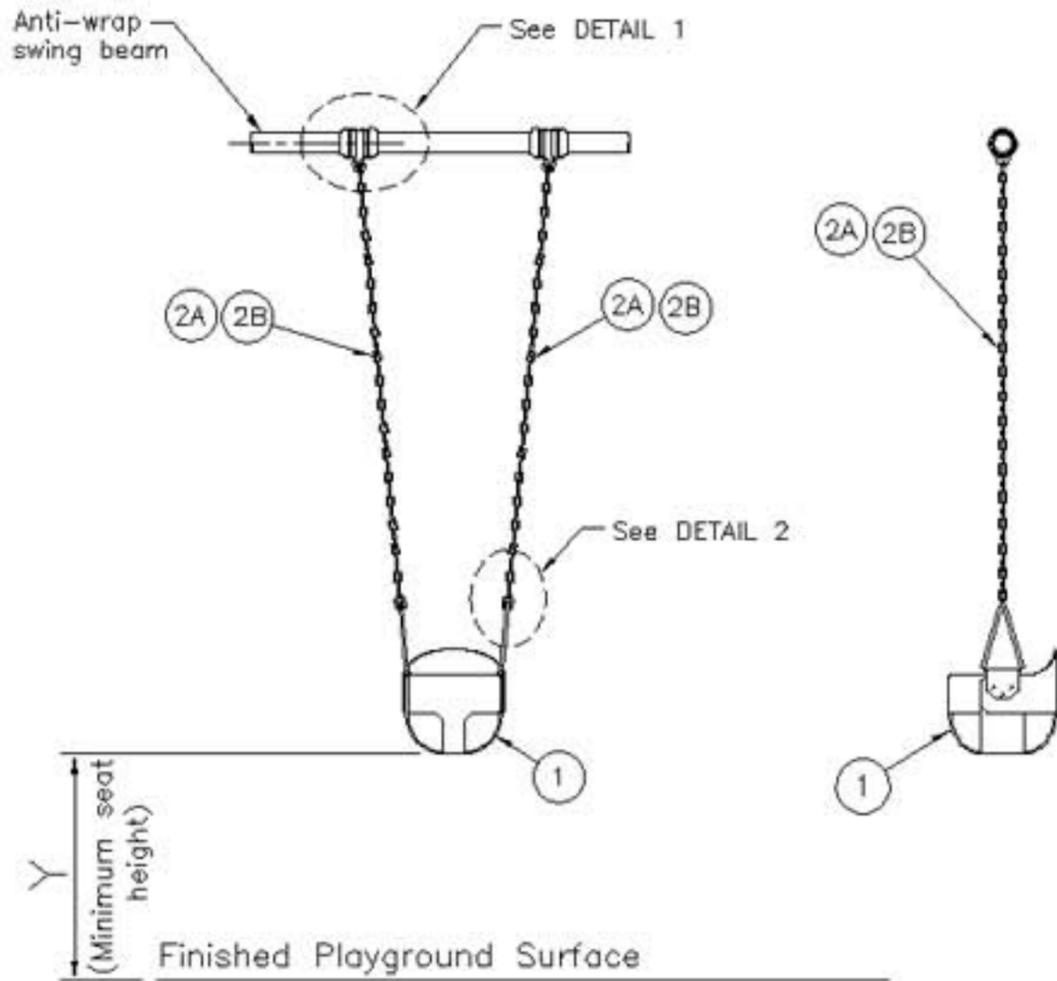
Alpha



DETAIL 2
Typ 2 Places



DETAIL 1
Typ 2 Places



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 24 INCHES

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

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

Application

- For age groups 2-12 years.

Maintenance

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

Specifications

CHAINS

MATERIAL: 4/0 chain link hot dipped galvanized

TOT SEAT

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

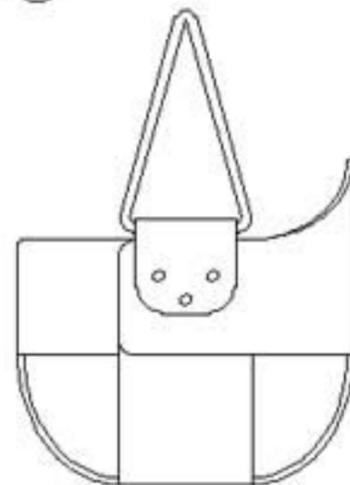
Installation Instructions

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

NOTES:

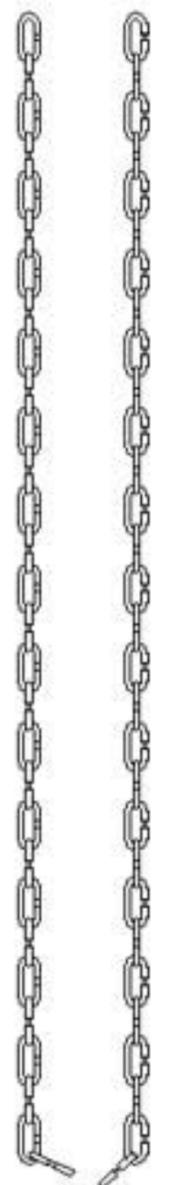
1. See separate instruction for swing frame installation.

1



2A

2B

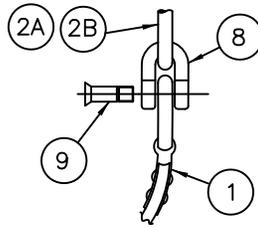


BELT SWING SEAT

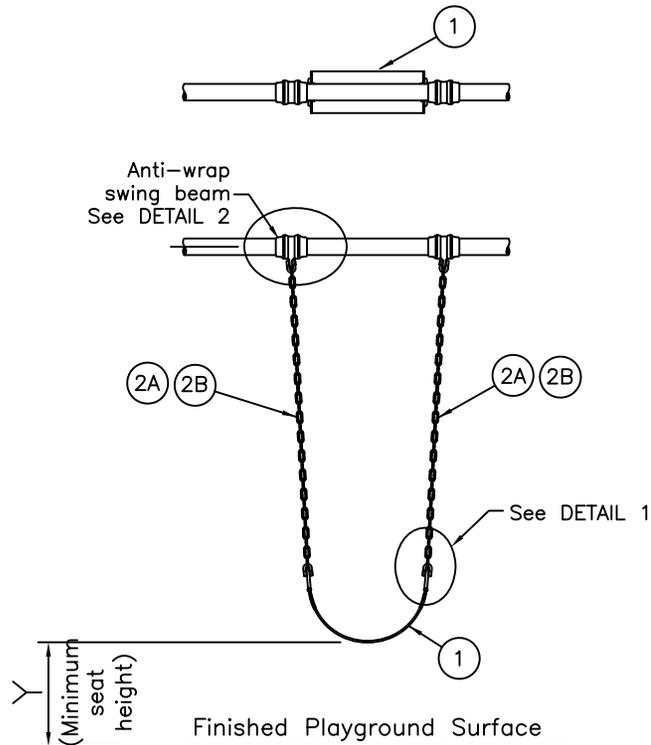
I800039C

Sheet 1 of 2

AUTHORIZED BY: 17APR19
Steve Adkins



DETAIL 1
Typ 2 Places



ASSEMBLY BELT SEAT F/8' SWING W/CHAIN - 200202835
ASSEMBLY BELT SEAT F/10' SWING W/CHAIN - 200202832

Item	Code	Description	Qty.
1	999604*	BELT SWING SEAT, SLASH PROOF - NO LOGO	1
2A	200187286	CHAIN F/8' TOP RAIL BELT/DURAGLIDE (71")	1
2B	200187287	CHAIN F/10' TOP RAIL BELT/DURAGLIDE (95")	1
3	200189491	HDWR BAG LBL/INST.F/BELT SWG CSA	1
4	200189492	HDWR BAG LBL/INST.F/BELT SWG 8' BEAM US	1
5	200189493	HDWR BAG LBL/INST.F/BELT SWG 10' BEAM US	1
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	1
7	HW35993-02	HRDW PKG 2 SM D STY SKL ST S1/1	1

HRDW PKG 2 SM D STY SKL ST S1/1 - HW35993-02

Item	Code	Description	Qty.
8	200035993	SHACKLE "D" STYLE 41MM 300 SS (SMALL)	2
9	200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE (SM)	2

Application

- For age groups 2-12 years.

Maintenance

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

Specifications

CHAINS

MATERIAL: 4/0 chain link hot dipped galvanized

BELT SEAT

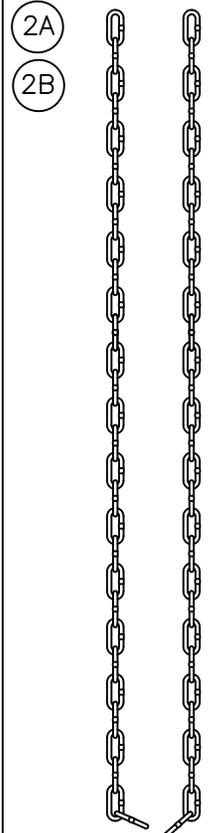
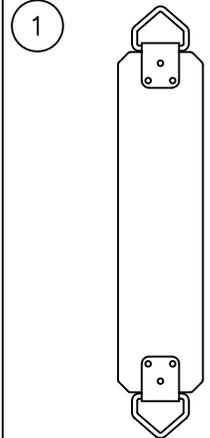
MATERIAL: Rubber with a tempered steel insert molded inside

Installation Instructions

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

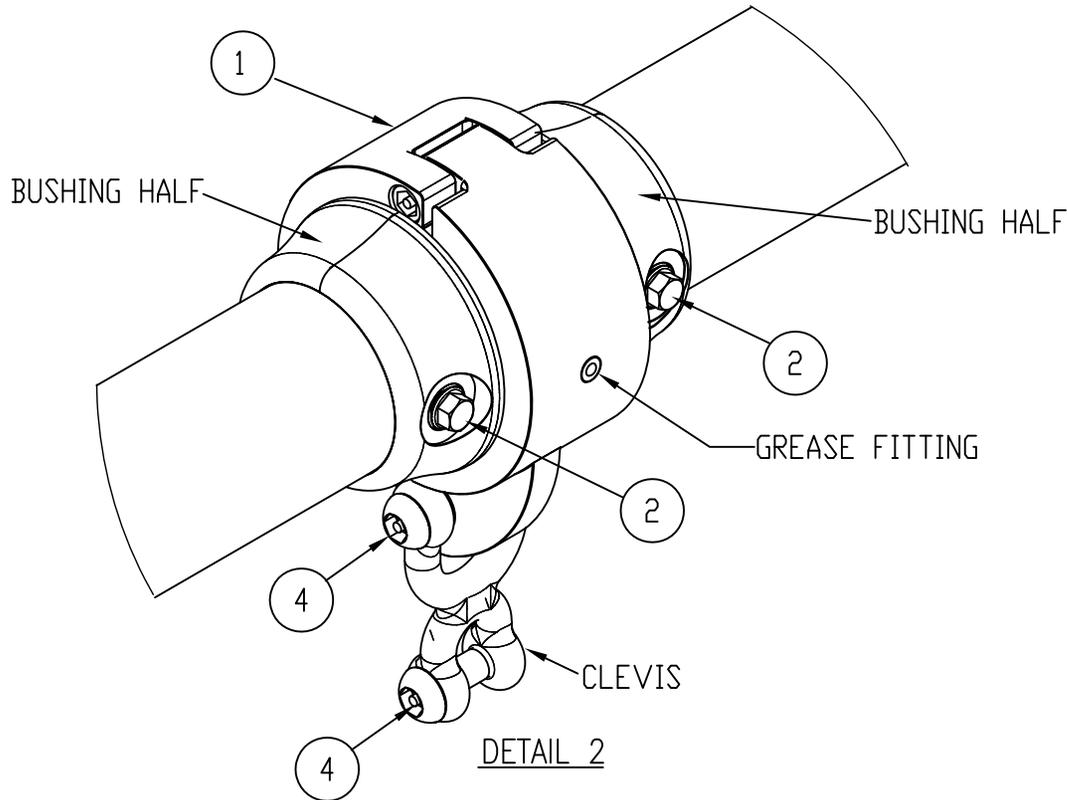
NOTES:

1. See separate instruction for swing frame installation.



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 12 INCHES.



994824 - (2) ANTI WRAP HANGER 2 3/8" TOP RAIL PARTS

Item	Code	Description	Qty.
1	102421	ANIT-WRAP SWING HANGER 2 3/8" TOP RAIL	2
2	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK	8
3	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
4	SP2008898	LOCTITE 271 RED, .02 OZ (.5ML) DISP TUBE	1

NOTE: DISCARD TEK SCREWS THAT COME WITH THE 102421 KIT AND USE (ITEM 2).

Installation Instructions

STEP 1 – REMOVE THE BOLT FROM THE CLEVIS AND SET THE BOLT ASIDE.

STEP 2 – OPEN THE HANGER ASSEMBLY (ITEM 1) AND REMOVE THE BUSHING HALVES. CENTER ONE (1) OF THE BUSHING HALVES ON TO THE BEAM USING THE HANGER LAYOUT FOR LOCATION, SHEET 3. ATTACH USING TWO (2) OF BOLTS (ITEM 2).

STEP 3 – REPEAT WITH THE OTHER BUSHING HALF. NOTE THAT THE BUSHING HALVES WILL NOT COMPLETELY MATE ON THE SWING BEAM. ALIGN THE TABS WITH THE NOTCHES AND ENSURE THE GAP BETWEEN THE BUSHING HALVES IS EQUAL ON BOTH SIDES OF THE SWING BEAM.

STEP 4 – PLACE THE HANGER ASSEMBLY (ITEM 1) AROUND THE BUSHING HALVES.

STEP 5 – APPLY LOCTITE (ITEM 4) TO THE END OF THE BOLT THAT WAS SET ASIDE IN STEP 1. ATTACH THE CLEVIS BACK TO THE HANGER ASSEMBLY (ITEM 1) USING THAT BOLT.

STEP 6 – ATTACH THE CHAIN TO THE BOTTOM OF THE CLEVIS USING THE BOLT THAT CAME WITH (ITEM 1). APPLY LOCTITE (ITEM 4) TO THE END OF THE BOLT BEFORE INSERTING INTO CLEVIS. TIGHTEN ALL HARDWARE.

STEP 7 – USING A GREASE GUN, PLACE A SUFFICIENT AMOUNT OF ALL-PURPOSE GREASE INTO THE GREASE FITTING TO ALLOW THE HANGER TO SWING FREELY.

Arch Swing Frames with Anti-Wrap Swing Hangers

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

Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203507	Arch Swing Frame 3.5" Single Bay	4
200203508	Arch Swing Frame 3.5" Add-On	5
200203542	Arch Swing Frame 3.5" Short Bay	5
200203543	Arch Swing Frame 3.5" Add-On	6

Note:

- *Inspect equipment on a regularly scheduled basis. Refer to Playground Inspection/Maintenance and Repair Guidelines located in Installation Manual. Anti-Wrap Swing Swivel should be inspected monthly to ensure there are no worn, sharp, vandalized or rusted components. It should also be determined at this time if more grease is required to keep swivel moving freely.*
- *An (*) by a part number (CODE) indicate: Color Code Required.*

200203507 ARCH SWING FRAME 3.5" SGL BAY			
ITEM	CODE	DESCRIPTION	QTY
1	983060*	ARCHED SWING SUPRT ASY, PTD	2
2	979396*	TOP RAIL 10'-6" X 3 1/2 OD	1
3	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
4	988278	PIN, THREADED, 5/8" OD X 4"	2
5	999046*	PARTS CARTON - TOUCH-UP PAINT-SWG LEG	1
6	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
7	999047*	PARTS CARTON - TOUCH-UP-PAINT-TOP RAIL	1
8	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1) R/B	1
9	200182848	LABEL ID/AGE 2-12/18MOS-12YRS.	1
10	200182851	LABEL COVER CLEAR LAMINATE	1
11	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
12	200182854	STICKER CIRCLE, AGE 2YR - 12YR	1
13	200182855	STICKER CIRCLE, AGE 18M - 12YR	1
14	HW994823-1	HRDW PKG AW7147352 S1/1	1

Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

200203508 ARCH SWING FRAME 3.5" ADD-ON			
ITEM	CODE	DESCRIPTION	QTY
15	983079*	ARCHED SWING SUPPORT, DBL RECEIVER, PTD	1
16	979396*	TOP RAIL 10'-6" X 3 1/2 OD	1
17	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
18	988278	PIN, THREADED, 5/8" OD X 4"	2
19	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
20	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1) R/B	1
21	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
22	HW994823-1	HRDW PKG AW7147352 S1/1	1
200203542 ARCH SWING FRAME 3.5" SHORT BAY			
ITEM	CODE	DESCRIPTION	QTY
23	983060*	ARCHED SWING SUPRT ASY, PTD	2
24	991493*	TOP RAIL 7'-4" X 3 1/2" O.D.	1
25	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
26	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1)R/B	1
27	200182848	LABEL ID/AGE 2-12/18MOS.-12YRS.	1
28	200182851	LABEL COVER CLEAR LAMINATE	1
29	999046*	PARTS CARTON - TOUCH-UP PAINT-SWG LEG	1
30	999047*	PARTS CARTON - TOUCH-UP PAINT-TOP RAIL	1
31	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
32	988278	PIN, THREADED, 5/8" OD X 4"	2
33	200182854	STICKER CIRCLE, AGE 2YR - 12YR	1
34	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
35	2001828554	STICKER CIRCLE, AGE 18M - 12YR	1
36	HW994823-1	HRDW PKG AW7147352 S1/1	1

Arch Swing Frames with Anti-Wrap Swing Hangers

200203543 ARCH SWING FRAME 3.5" SHORT BAY ADD-ON			
ITEM	CODE	DESCRIPTION	QTY
37	991493*	TOP RAIL 7'-4" X 3 1/2" O.D.	1
38	983079*	ARCHED SWING SUPPORT, DBL RECEIVER, PTD	1
39	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	1
40	102423	TUBE 2mi-THREADLOCKER VIBRA-TITE 12102	1
41	988278	PIN, THREADED, 5/8" OD X 4"	2
42	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
43	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1)R/B	1
44	HW994823-1	HRDW PKG AW7147352 S1/1	1
PARTS CARTON (2) ANTI-WRAP 3 1/2" - PN 994825**			
45	102422	ANTI WRAP SWING HANGER 3 1/2" TOP RAIL	2
46	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK	8
47	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
48	SP2008898	LOCTITE 271 RED, .02 OZ (.5ML) DISP TUBE	1
HRDW PKG AWT147352 S1/1** HW994823-1			
ITEM	CODE	DESCRIPTION	QTY
49	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
50	104052	BOLT 3/8-16 X 5/8 BHCS 6 LOBE 18-8 SS	4
51	104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
52	117003	WASHER 5/16 FLAT 18-8 SS	4
(**)	NOTE: USED FOR <i>ALL</i> MODELS		

Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

I800046
Model 200203507
Arch Swing Frame 3.5" Single Bay

Top View

Footing Layout

18" DIA. X 18" DEEP FOOTING (4) REQ'D

Detailed description: This section shows the specifications for the Arch Swing Frame 3.5" Single Bay. It includes a top view diagram of the frame with four hangers, a footing layout diagram showing four 18" diameter by 18" deep footings arranged in a 3'-6" by 11' grid, and a 3D perspective view of the frame. The model number is I800046 and the part number is Model 200203507.

I800046
Model 200203508
Arch Swing Frame 3.5" Add-On

Top View

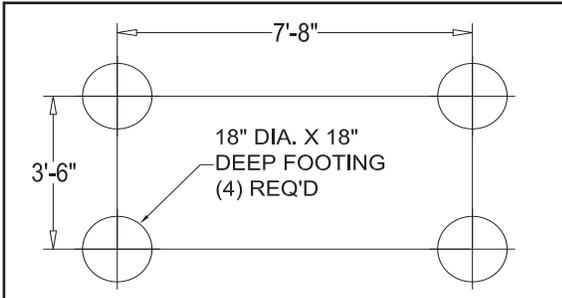
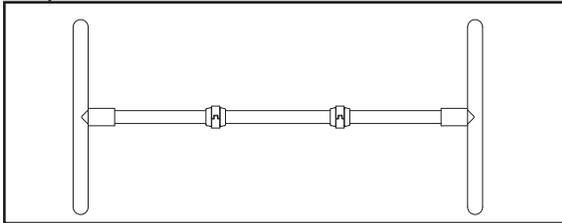
Footing Layout

18" DIA. X 18" DEEP FOOTING

Detailed description: This section shows the specifications for the Arch Swing Frame 3.5" Add-On. It includes a top view diagram of the frame with four hangers, a footing layout diagram showing four 18" diameter by 18" deep footings arranged in a 3'-6" by 11' grid, and a 3D perspective view of the frame. The model number is I800046 and the part number is Model 200203508.

Arch Swing Frames with Anti-Wrap Swing Hangers

Top View

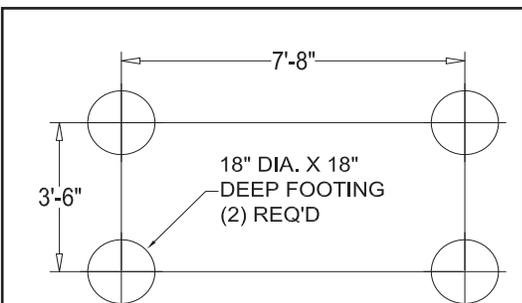
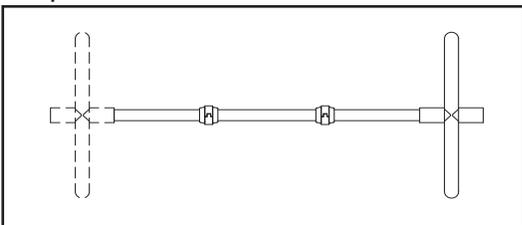


Footing Layout

1800046
Model 200203542
Arch Swing Frame 3.5" Short Bay



Top View



Footing Layout

1800046
Model 200203543
Arch Swing Frame 3.5" Short Bay Add-On



Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

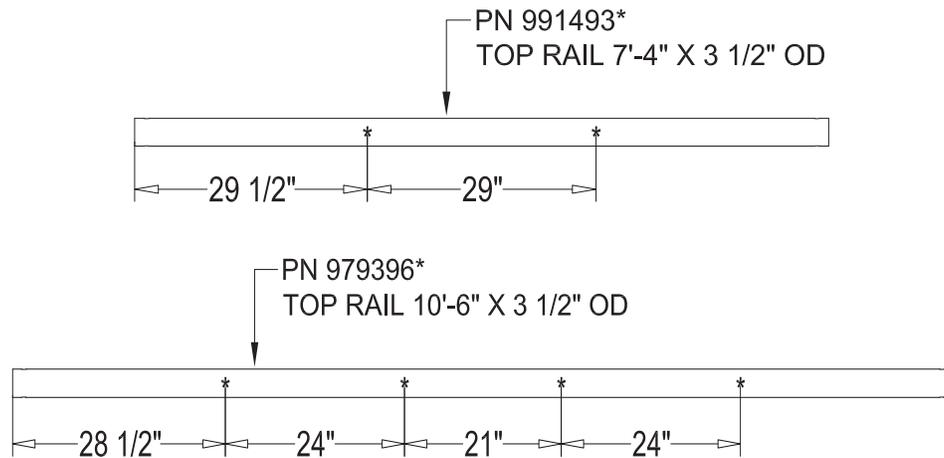
STEP 1 DIG FOOTINGS

- 1a. Dig footings per *Footing Layout*, Construction Drawings and *Footing Details installation*. Place blocking material in bottom of footing holes.

Note: Do not pour concrete for footings until model is fully assembled per instructions and braced in position, leveled and plumbed.

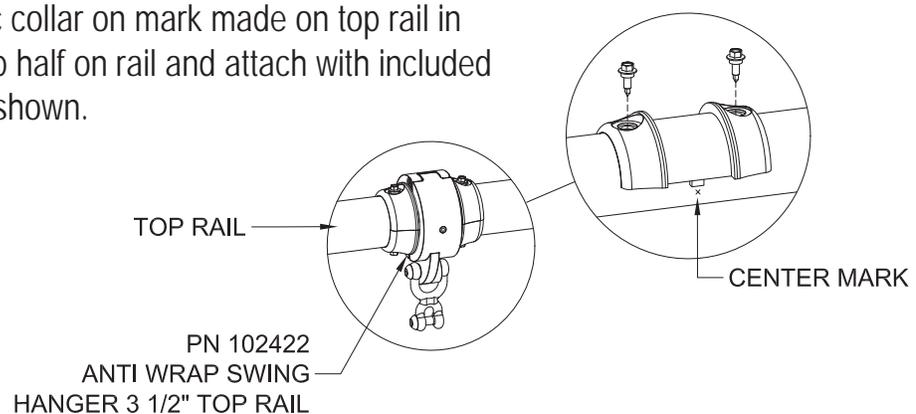
STEP 2 MARK TOP RAIL FOR HANGER PLACEMENT

- 2a. Mark top rails for anti-wrap swing hanger placement. Measure from end of top rail to center of anti-wrap swing hanger.



STEP 3 ASSEMBLE AND ATTACH ANTI-WRAP WING HANGERS

- 3a. Locate anti-wrap swing hanger. Remove H-shackle using a wrench with pin hole to remove tamper proof bolt and set bolt aside. Open hanger into halves and remove plastic collar.
- 3b. Center plastic collar on mark made on top rail in step 2; set top half on rail and attach with included hardware as shown.

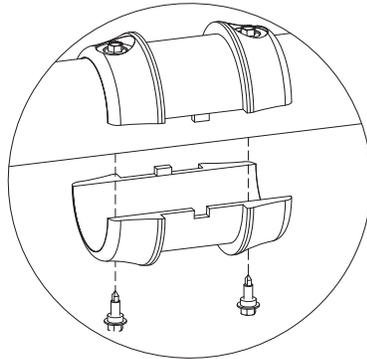


Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 3 ASSEMBLE AND ATTACH ANTI-WRAP WING HANGERS cont.

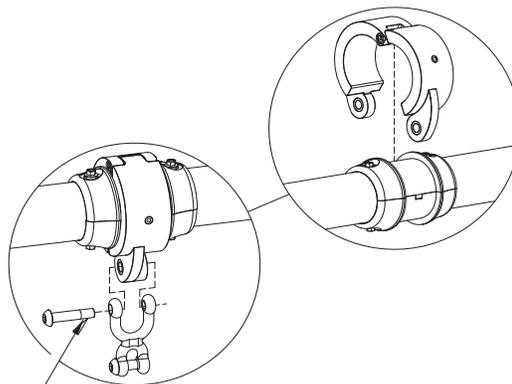
3c. Repeat with bottom collar half.

Note: Plastic collar halves will NOT COMPLETELY MATE on top rail. Align tab with notch and ensure gap between collar halves is equal on both sides of top rail.



3d. Place steel hanger around plastic collar; apply Vibra-Tite Threadlocker to end of tamper proof bolt; attach H-shackle to hanger via tamper proof bolt; tighten all hardware.

Note: Using a grease gun, place a sufficient amount of all purpose grease into grease fitting, to allow hanger to swing freely.



PN 102423
TUBE 2ml-THREADEDLOCK
VIBRA-TITE 12102

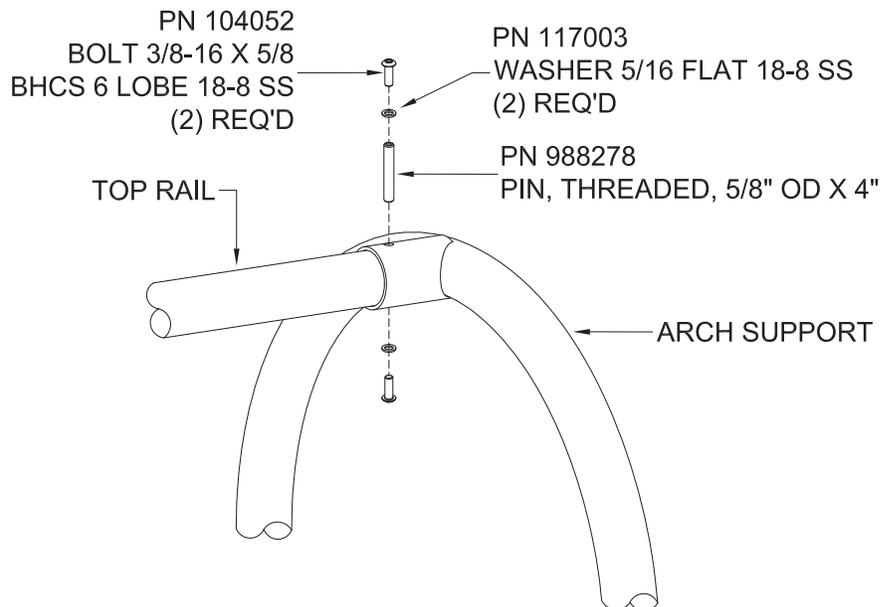
Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 4 FASTEN TOP RAIL TO ARCHES

- 4a. Set arches on ground with stubs facing each other. Firmly seat ends of top rail within each arch stub, aligning mating bolt holes. Ensure that weldments for clevises are on underside of top rail assembly, for later attachment of swing chains and seats.

Install Tip: Once top rail is in stub, all four (4) bolt holes must be aligned. If necessary for alignment, run a 11/16" drill bit through all four (4) holes. Do not allow bit to wander, creating a larger hole.

- 4b. Install a bolt and washer in one end of threaded pin and tap through top rail and arch stub, then install a bolt and washer on opposite side. Repeat at other end of top rail.



STEP 5 SET SWING FRAMES INTO FOOTINGS

- 5a. Lift frame assembly and set in footings. Ensure that arches are plumb and that the top rail is level. Block in position so that bottom surface of top rail is **96"** (8'-0") from finished grade.

Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 6 POUR CONCRETE

- 6a. Rope off area to prevent access and pour concrete.
- 6b. Install age appropriate labels per "Placement of Age Appropriate Labels" located in the *Installation Manual*.

Important Note: Do not hang swing chains and seats until concrete has fully cured per concrete manufacturer's instructions (usually 72 hours) and protective surfacing is installed to avoid risk of injury to users and damage to play equipment.

FINAL STEP

Proceed with *Final Assembly installation*.