



Play Strong.

Instruction Manual for Installation of:

Age Group:



Play Strong.

TOLL FREE: 1-800-661-1462 FAX: (403) 529-0851

IMPORTANT PROTECTIVE SURFACING NOTES

- Numerous studies have shown that the majority of playground injuries are caused by falls.
- All play equipment with a fall height above the finished grade shall be located on a protective surface that extends around it to cover the protective surfacing zone.
- A minimum of 300mm (12") of safety base is recommended when loose materials are used.
- Refer to Annex D of CAN/CSA-Z614-14 for protective surfacing recommendations.
- **DO NOT ALLOW CHILDREN TO PLAY ON THE EQUIPMENT UNTIL THE PROTECTIVE SURFACING HAS BEEN INSTALLED!**

For more information, consult your CAN/CSA-Z614-14 "Children's Playspaces and Equipment", Section 10, or contact your local Blue Imp Representative.

AGE GROUP & WARNING LABELLING

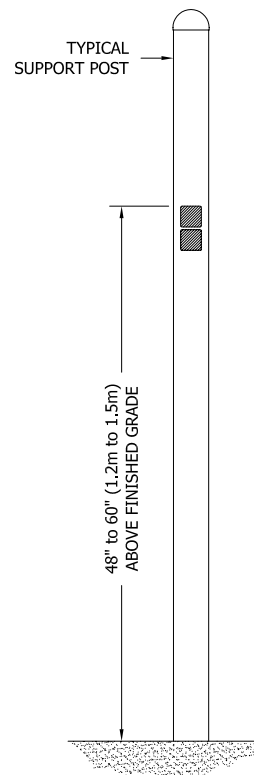
All play equipment and structures must have permanently attached labels for the following:

- Manufacturer's identification and contact number.
- Age groups for which the equipment has been designed.

ADHESIVE LABEL APPLICATION INSTRUCTIONS:

Labels are contained within a small envelope included with your Instruction Package. Apply the Labels as follows:

- Refer to the Cover Page of each Installation Instruction to determine which Age Group labels are appropriate for that item. (*Note: for Swings containing only "Tot" or "Accessible" Seats, the Age Group will be 2-5. For Swings containing only "Belt" or "Soft Edge" Seats, the Age Group will be 5-12. For Swings containing both seat types, the Age Group will be 2-12.*)
- Choose a location that is easily seen, near the main entrance to the structure, and at eye level where it will be noticed.
- Labels adhere best to painted surfaces - do not apply to plastic or vinyl-coated components.
- Make sure the surface is clean and dry before applying the label.
- Peel away backing sheet and place label in position.
- For larger, composite structures, apply labels in two or more locations.

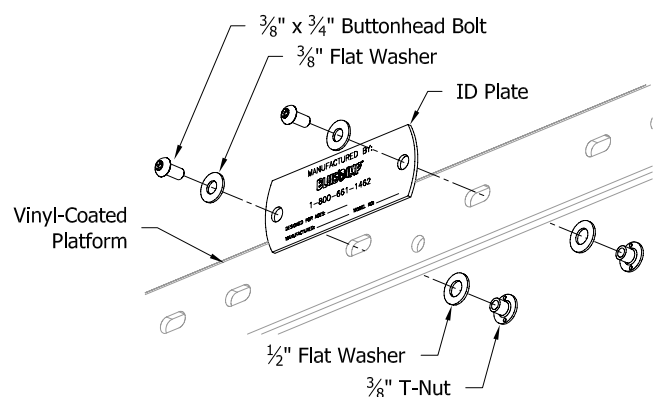


(For the 2-12 Age Group, attach a 2-5 label and a 5-12 label)

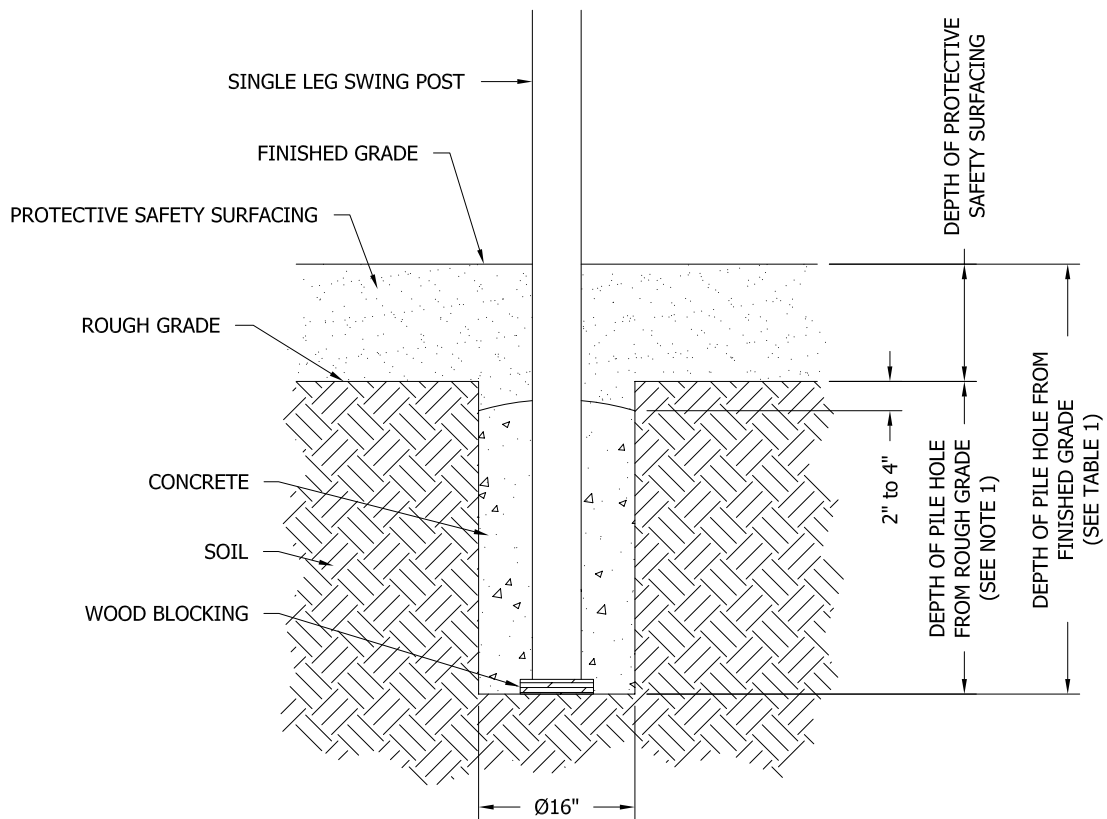
ID PLATE MOUNTING INSTRUCTIONS:

Some composite structures will be supplied with a metal ID Plate, enclosed within the envelope that contained these installation instructions.

- The ID Plate should be permanently attached to the face of a vinyl-coated platform on the composite structure, in a readily identifiable and visible location.
- Attach the ID Plate to the face of the platform using (2) $\frac{3}{8}$ " x $\frac{3}{4}$ " Buttonhead Bolts, (2) $\frac{3}{8}$ " Flat Washers, (2) $\frac{1}{2}$ " Flat Washers, and (2) $\frac{3}{8}$ " T-Nuts.



SINGLE LEG SWING POST ANCHORMENT INSTRUCTION



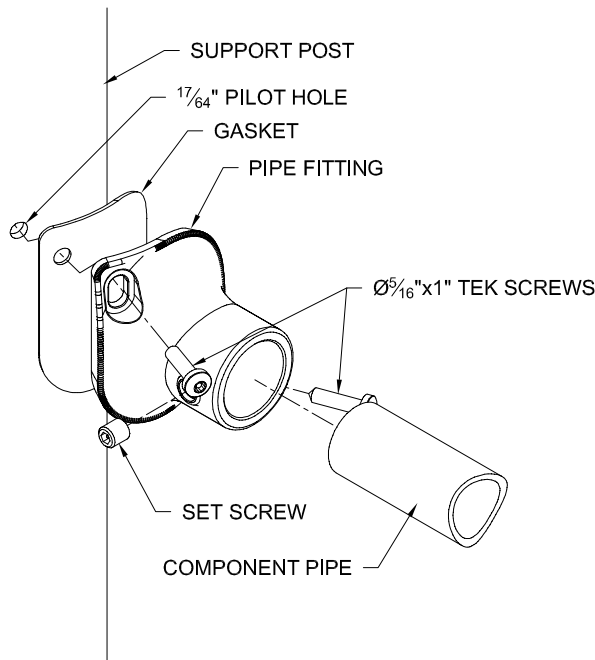
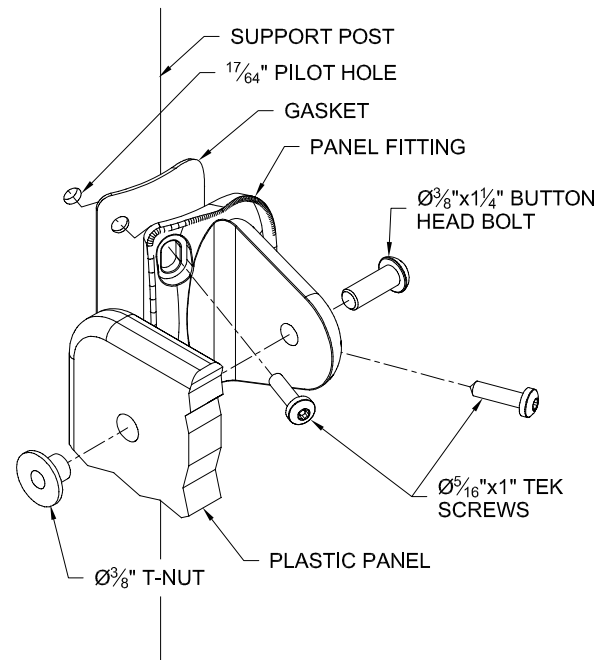
OVERALL DEPTH OF PILE HOLES	
SWING HEIGHT	PILE DEPTH (measured from Finished Grade)
6ft	3'-8" (44")
7ft	3'-8" (44")
8ft	3'-8" (44")
9ft	4'-6" (54")
10ft	4'-6" (54")

TABLE 1

SINGLE LEG SWING POST ANCHORMENT INSTRUCTION:

1. Dig Ø16" pile holes. Refer to PILE LAYOUT for pile hole locations, and TABLE 1 for overall depth of pile holes (measured from Finished Grade).
Note: Depth of pile holes from Rough Grade is determined by subtracting the intended depth of Protective Safety Surfacing from the overall pile hole depth obtained from TABLE 1. For example, with 12" of Protective Safety Surfacing and a 3'-8" overall depth, the depth measured from Rough Grade will be 3'-8" minus 12", which is 2'-8".
2. Place wood blocking into the bottom of the pile holes, and insert the assembled Swing Frame into the pile holes. Refer to the SWING ASSEMBLY INSTRUCTIONS for assembly information, and the PLAN AND PILE LAYOUTS for swing placement.
3. Once all equipment is assembled, plumbed, and levelled, pour concrete around the Posts to fill the pile holes. Concrete must remain 2" to 4" below Rough Grade to prevent frost heave.

MP PIPE & PANEL FITTING

**DETAIL A - PIPE FITTING****DETAIL B - PANEL FITTING****PIPE FITTING INSTRUCTION (SEE DETAIL A):**

- 1) Place Rubber Gaskets onto Pipe Fittings. Ensure Gaskets are kept centered on the Pipe Fittings throughout installation.
- 2) Slide Pipe Fittings onto component being installed (if required). SEE SPECIFIC COMPONENT INSTALLATION for more information.
- 3) Refer to SPECIFIC COMPONENT INSTRUCTION to determine height of Fittings, then use a fitting as a guide to mark, then drill (2) $\text{Ø}^{1/64}$ " Pilot Holes into Post, per Fitting.
- 4) Secure the Pipe Fittings to the post using (2) $\frac{5}{16}$ " x 1" TEK Screws per Fitting. See DETAIL A. When all Pipe Fittings for the component are installed, center the component between the Support Posts and tighten Set Screws.

PANEL FITTING INSTRUCTION (SEE DETAIL B):

- 1) Place Rubber Gaskets onto Panel Fittings. Ensure Gaskets are kept centered on the Panel Fittings throughout installation.
- 2) Temporarily attach Panel Fittings to Plastic Panel using (1) $\frac{3}{8}$ "x $\frac{1}{4}$ " Buttonhead Bolt, and (1) $\frac{3}{8}$ " T-Nut per Panel Fitting. Refer to SPECIFIC COMPONENT INSTRUCTION for the quantity of Panel Fittings Required.
- 3) Following the SPECIFIC COMPONENT INSTRUCTION, mark the top of the Panel Fitting location on the Support Posts. Press the Panel Fitting against the Support Post, making sure the Panel Fitting is square with the Support Post. use the Fitting as a guide to mark, then drill (2) $\text{Ø}^{1/64}$ " Pilot Holes, Per Fitting. Secure the Panel Fittings to the post using (2) $\frac{5}{16}$ " x 1" TEK Screws per Fitting. See DETAIL B. Since Plastic Panel will be restricting access to the hole on the backside of the Fitting, the Plastic Panel must first be removed in order of drill remaining pilot holes, and secure the remaining TEK Screws.
- 4) After Panel Fittings are attached to the Support Posts, attach the Plastic Panel. It may also be required that the Plastic Panel be attached to the Platform. SEE SPECIFIC COMPONENT INSTALLATION for more information.

SINGLE LEG SWING W/ TOPPERS ASSEMBLY INSTRUCTIONS

***** PLEASE READ ALL INSTRUCTIONS PRIOR TO ASSEMBLY *****

1. Dig pile holes as shown in the Pile Layout, and as indicated in the Single Leg Swing Post Anchorment Instruction.
2. Make marks for bearing hangers on the 11'-0" (3.4m) overhead beam (3½" (90mm) O.D.) as shown in Figure 1.
3. Attach Bearing Hangers to the beam (one hanger centered on each mark). Tighten all connections. See "Standard Bearing Hanger" Instruction, or "Wrap Free Bearing Hanger" Instruction (as applicable) for more information.
4. Slide the Swing Beam(s) into the sleeves of the Swing Legs, and secure in place using (1) ½" x 4½" Buttonhead Bolt, (1) ½" Flat Washer, and (1) ½" Stover Nut per connection. See Figure 2.
5. Attach Toppers to Swing Leg with Single Sleeve, as per relevant POST TOPPER INSTRUCTION.
6. Stand the swing frame up on its legs, and set the swing frame into the pile holes. *** Mechanical assistance is recommended ***
7. Plumb the frame until the swing beam is level, and is at the appropriate height above finished grade. See Table 1 and Figure 3.
8. Pour concrete into the pile holes, keeping the top of the concrete 2" to 4" below rough grade, and allow to set. See Single Leg Swing Post Anchorment Instruction for more information.
9. Install seats onto bearing hangers as per Swing Seat Installation Instruction. Note: Belt seats shall be placed a minimum of 12" (300mm) above the protective surface. Tot seats shall be placed a minimum of 24" (610mm) above the protective surface. See Figure 3.

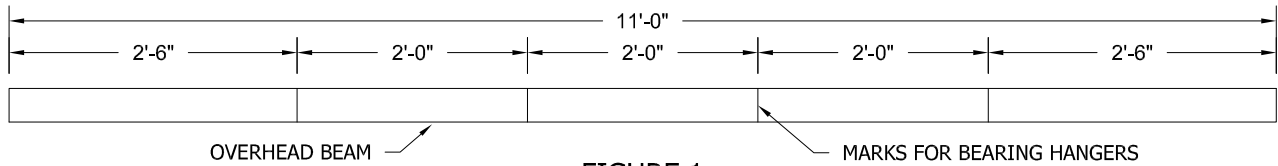


FIGURE 1

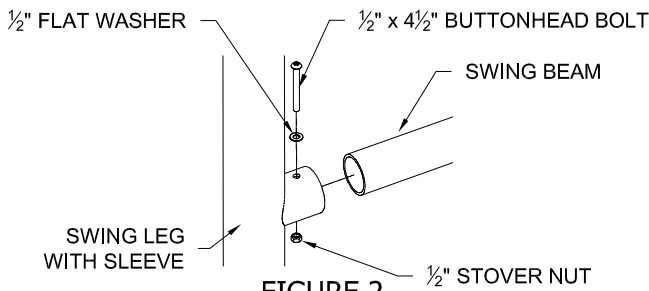


FIGURE 2

SWING BEAM HEIGHTS	
SWING HEIGHT	SWING BEAM HEIGHT (measured to underside of beam)
6ft	72" (1.83m)
7ft	84" (2.13m)
8ft	96" (2.44m)
9ft	108" (2.74m)
10ft	120" (3.05m)

TABLE 1

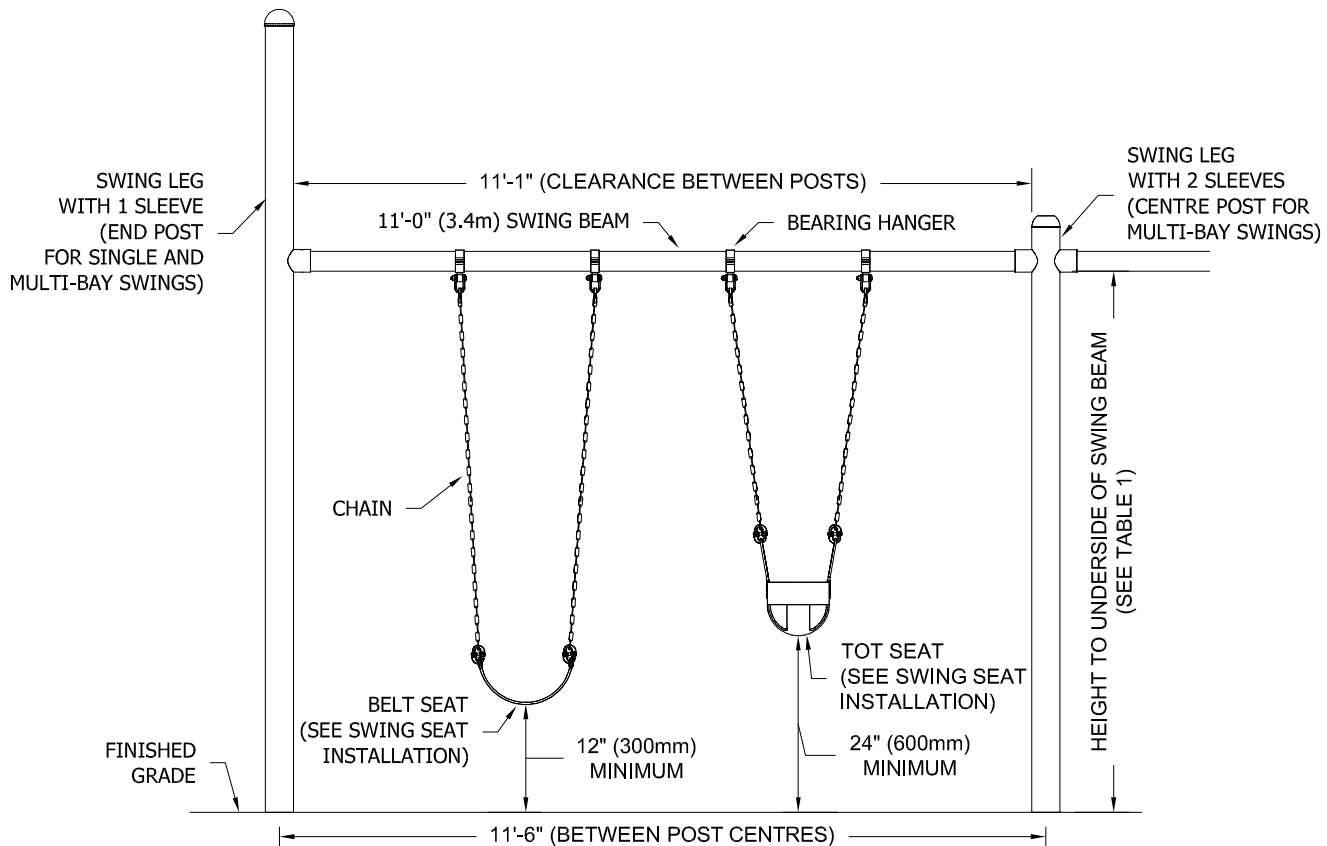
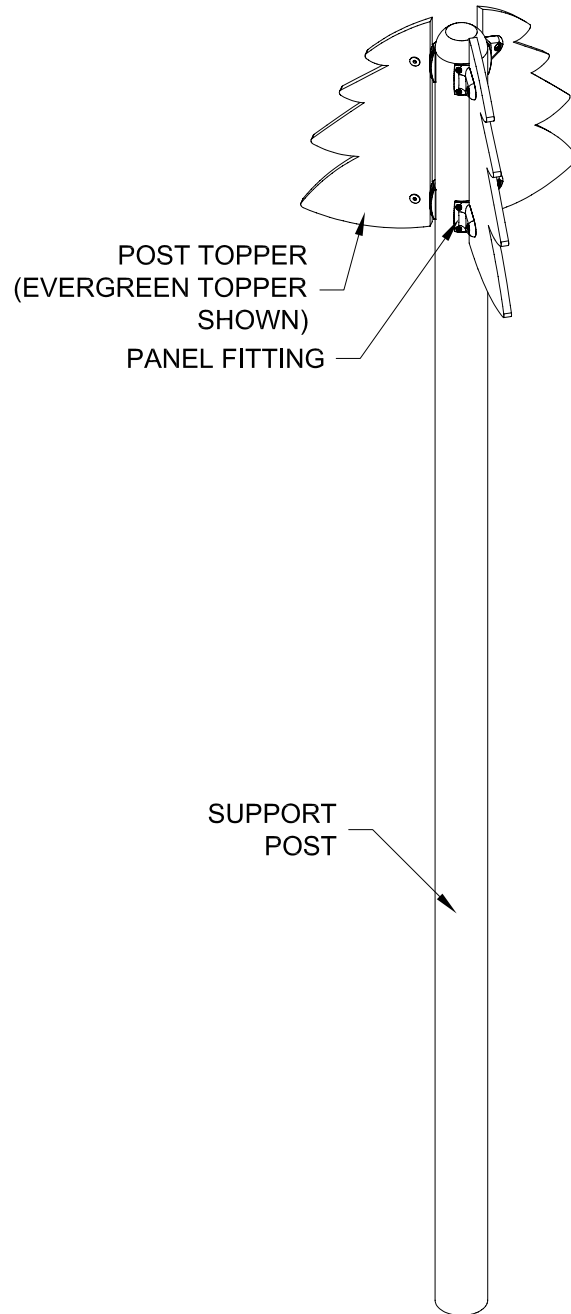


FIGURE 3

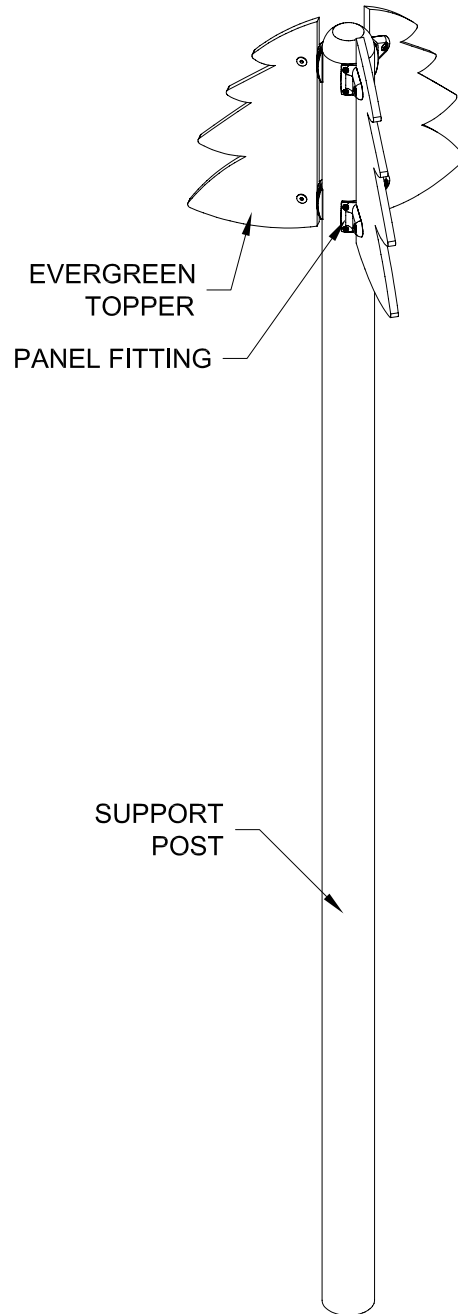
M2P POST TOPPERS



POST TOPPER INSTRUCTION:

- 1) Attach Panel Fittings to Post Toppers as per PANEL FITTING INSTRUCTION.
- 2) Attach Panel Fittings to Support Post as per PANEL FITTING INSTRUCTION. Top of Panel Fittings to be right under Post Cap.

M2P EVERGREEN TOPPERS

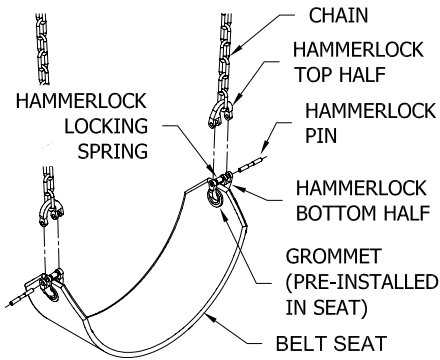


EVERGREEN TOPPER INSTRUCTION:

- 1) Attach Panel Fittings to Evergreen Toppers as per PANEL FITTING INSTRUCTION.
- 2) Attach Panel Fittings to Support Post as per PANEL FITTING INSTRUCTION. Top of Panel Fittings to be right under Post Cap. Ensure Panels are evenly spaced around Support Post.

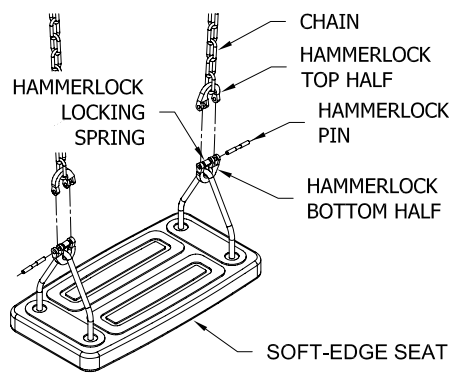
SWING SEAT ASSEMBLY INSTRUCTIONS

(Not all seats will be applicable to your installation)



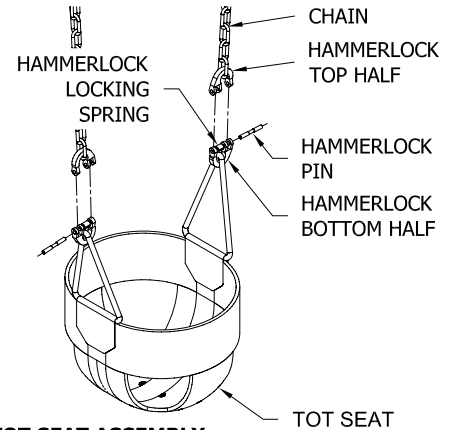
BELT SEAT ASSEMBLY

1. Ensure that the bearing hangers are rotated on the swing beam so that the swivel eyes are pointing straight down.
2. Attach the Belt Seat to the supplied chain using Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.
3. Attach the free ends of the chain to the bearing hanger swivel eyes, using Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.
4. The underside of the Belt Seat should be at a minimum height of 12" above the protective safety surfacing, when occupied.



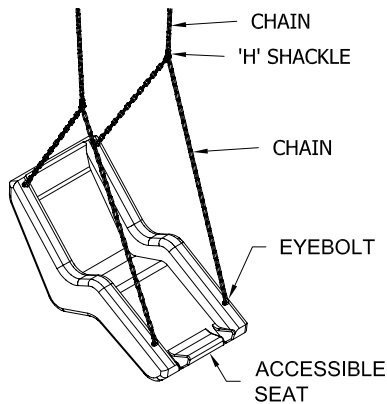
SOFT-EDGE SEAT ASSEMBLY

1. Ensure that the bearing hangers are rotated on the swing beam so that the swivel eyes are pointing straight down.
2. Attach the Soft-Edge Seat to the supplied chain using Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.
3. Attach the free ends of the chain to the bearing hanger swivel eyes, using Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.
4. The underside of the Soft-Edge Seat should be at a minimum height of 12" above the protective safety surfacing, when occupied.



TOT SEAT ASSEMBLY

1. Ensure that the bearing hangers are rotated on the swing beam so that the swivel eyes are pointing straight down.
2. Attach the Tot Seat to the supplied chain using Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.
3. Attach the free ends of the chain to the bearing hanger swivel eyes, using Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.
4. The underside of the Tot Seat should be at a minimum height of 24" above the protective safety surfacing, when occupied.

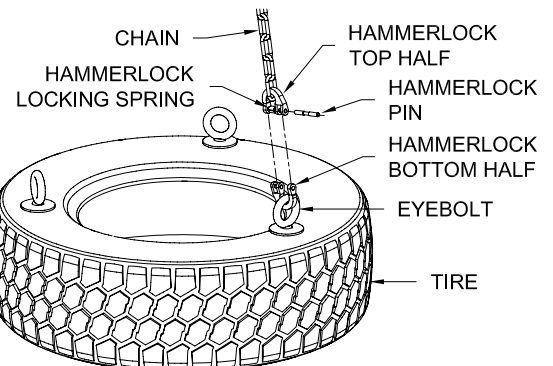
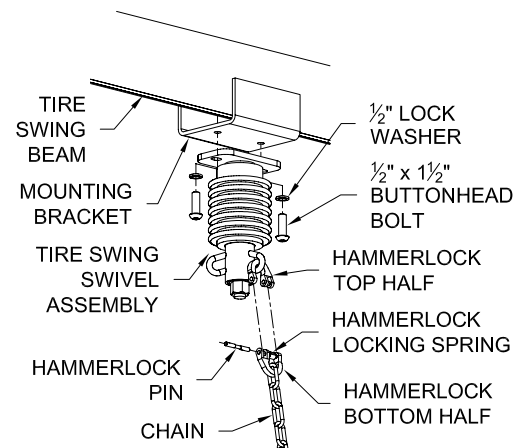


ACCESSIBLE SEAT ASSEMBLY

1. Ensure that the bearing hangers are rotated on the swing beam so that the swivel eyes are pointing straight down.
2. The Accessible Seat is supplied with chains pre-attached to the seat. The underside of the Accessible Seat should be positioned at an approximate height of 18" above the protective safety surfacing, so chains may require shortening.
3. Once the chains have been shortened as required, attach the free ends of the chain to the bearing hanger swivel eyes, using Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.

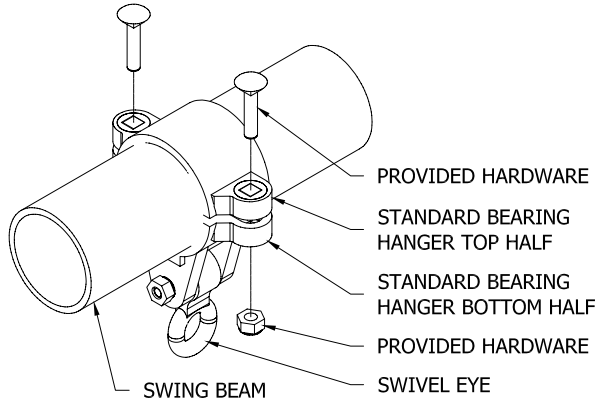
TIRE SWING SEAT ASSEMBLY

1. Attach Tire Swing Swivel to Mounting Bracket on Swing Beam using (2) 1/2"x1 1/2" Button Head Bolts and (2) 1/2" Lock Washers. SEE DETAIL A. Attach Chain to loops on Swivel using (3) Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.
2. Attach Chains to Eyebolts on Tire using (3) Hammerlocks. Refer to HAMMERLOCK INSTRUCTION for Hammerlock Assembly information.
3. The underside of the Tire Swing Seat should be at a minimum height of 12" above the protective safety surfacing, when occupied.



STANDARD BEARING HANGER & WRAP FREE BEARING HANGER INSTALLATION INSTRUCTIONS

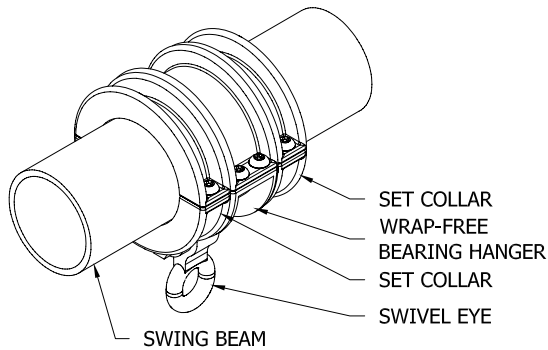
STANDARD BEARING HANGER



STANDARD BEARING HANGER - INSTALLATION INSTRUCTION:

1. Temporarily remove the hardware joining the two Bearing Hanger Halves together.
2. Locate the marks made on the Swing Beam from the Swing Assembly Instruction, and clamp the Bearing Hanger Halves around the Swing Beam. Ensure that the centre of each Hanger is aligned with the marks on the Beam.
3. Using the hardware removed during Step 1, re-attach the two Bearing Hanger Halves, ensuring that all Bearing Hangers on the Swing Beam are oriented the same way, i.e., with the Swivel Eye pointing downwards. Fully tighten all connections.

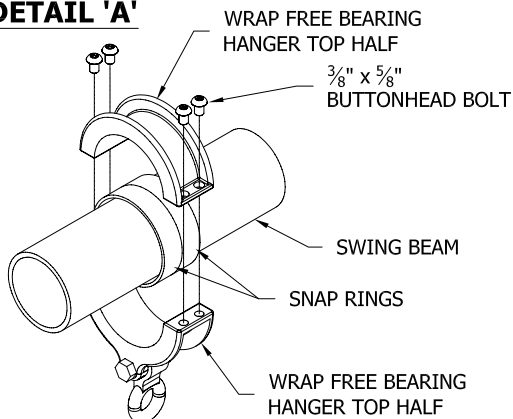
WRAP-FREE BEARING HANGER



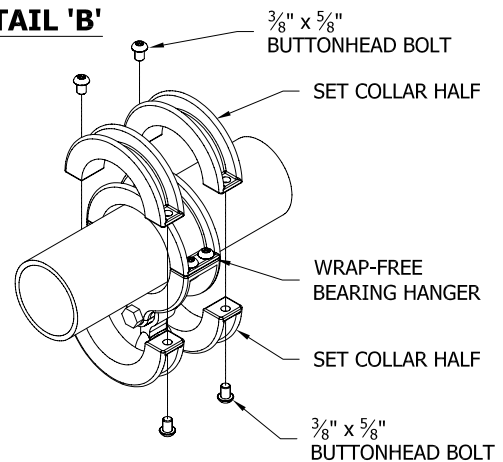
WRAP-FREE BEARING HANGER - INSTALLATION INSTRUCTION:

1. Locate the marks made on the Swing Beam from the Swing Assembly Instruction, and place (2) Snap Rings around the Swing Beam at each mark.
2. Join Wrap-Free Bearing Hanger top and bottom halves together around the Swing Beam, using (4) $\frac{3}{8}$ " x $\frac{5}{8}$ " Buttonhead Bolts. Sandwich the Snap Rings installed in Step 1 between the Hanger and the Beam, and align the centre of the Hanger with the marks on the Beam. See DETAIL 'A'.
3. Join (2) Set Collar halves together around the Swing Beam, using (2) $\frac{3}{8}$ " x $\frac{5}{8}$ " Buttonhead Bolts. *Note: the Set Collar halves have two holes; one is threaded, one is unthreaded. Ensure that the Set Collar Halves are oriented so that the threaded hole in one half aligns with the unthreaded hole in the other half. The buttonhead bolt must pass through the unthreaded hole first, and then into the threaded hole.* Install a Set Collar on each side of the Wrap-Free Bearing Hanger, leaving a $\frac{1}{16}$ " gap between the Set Collars and the Wrap-Free Bearing Hanger to allow Hanger to rotate freely around the Beam. See DETAIL 'B'.

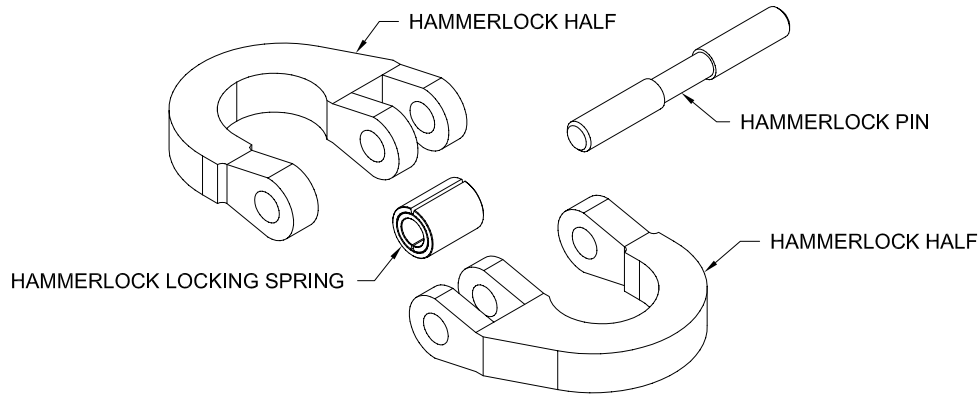
DETAIL 'A'



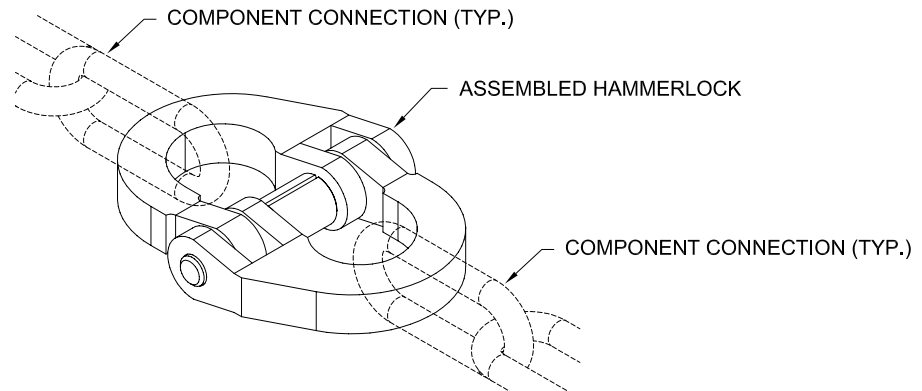
DETAIL 'B'



SP-541 9/32" HAMMERLOCK ASSEMBLY INSTRUCTION



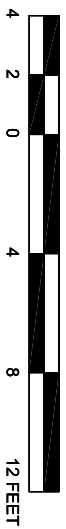
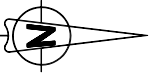
HAMMERLOCK COMPONENTS



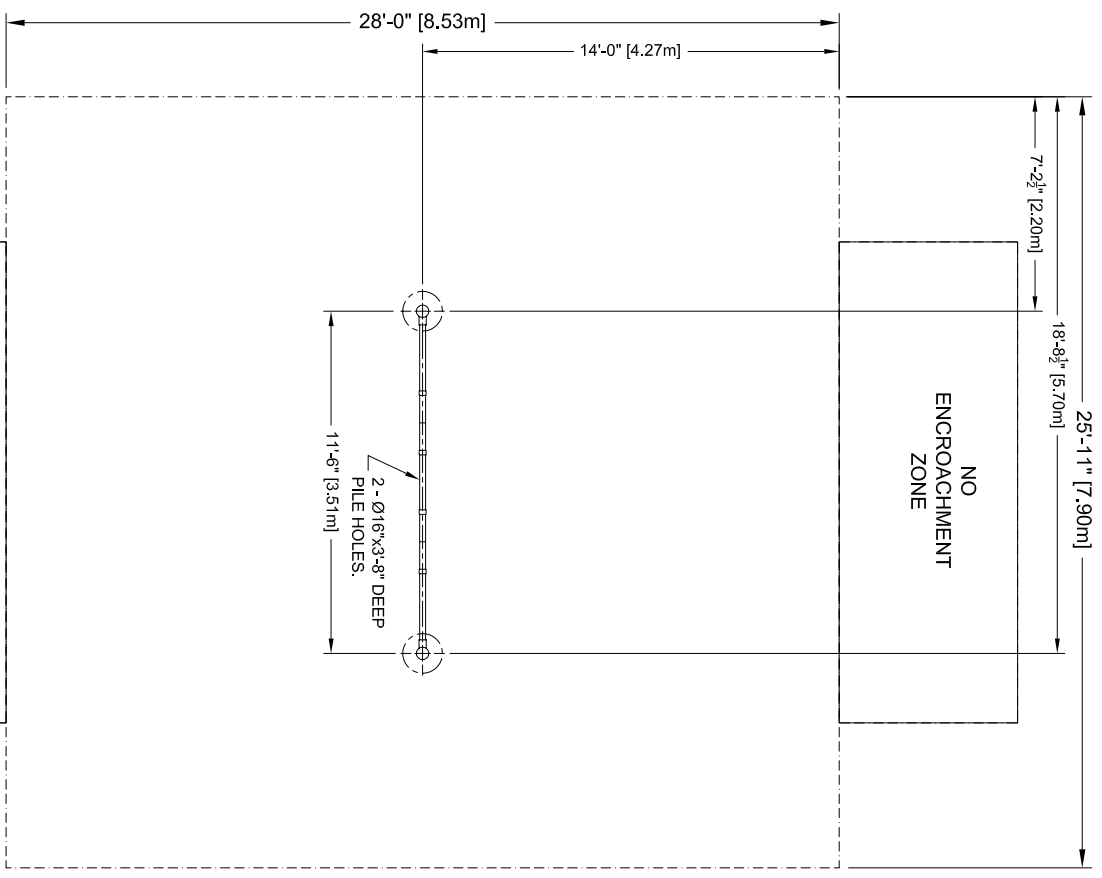
ASSEMBLED HAMMERLOCK

HAMMERLOCK ASSEMBLY INSTRUCTION:

- 1) Hammerlock installation is easiest when carried out on the ground, prior to installation of the equipment. If necessary, temporarily demount the equipment to facilitate the Hammerlock installation.
- 2) Slide one half of the Hammerlock into each of the components requiring connection.
- 3) Interlock the two Hammerlock halves, and temporarily insert the Pin, without the Locking Spring. Note that the Pin usually fits better in one direction. Before proceeding to Step 4, verify that the Pin can be inserted fully.
- 4) Hold the Locking Spring in place between the two interlocked Hammerlock halves, and slide the Pin through one side of the Hammerlock until it makes contact with the Locking Spring. Orient the Hammerlock so that the Locking Pin is pointing down and against a hard surface (e.g., a thick steel plate). Ensuring that the Locking Spring is held firmly in place and aligned with the Pin, strike the Pin with a hammer, to drive it through the two Hammerlock halves and the Locking Spring, to complete the Hammerlock connection.



CONFORMS TO THE CANCSA Z614.4 STANDARD
"CHILDREN'S PLAYSPACES AND EQUIPMENT"



NO
ENCROACHMENT
ZONE

NO
ENCROACHMENT
ZONE

2 - Ø1/8" X 3/8" DEEP
PILE HOLES.

8' HIGH, 2 UNIT
SINGLE LEG SWING

LAYOUT #: L108
JOB #:

RECOMMENDED AGES: N/A
AREA RECD (SQ.FT.): 726
PERIMETER RECD (FT.): 108
DRAWN BY: JI
DATE: 12-OCT-10

3	REMOVE BONDERS	SM	26-SEP-14
2	REMOVE BLOCK	BB	15-AUG-14
1	REMOVE BLOCK	EH	19-AUG-11

PLAN & PILE



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