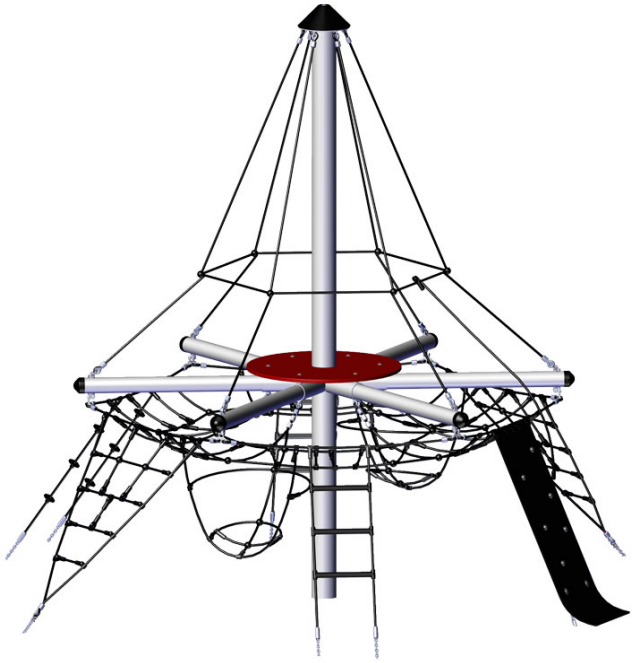
Installation Instructions



Mini Pirate Tower

Model No. 4687-30

Revised: 03/07/2024

NetPlay USA LLC
3-D Adventure Play & Innovation

Contents

Please read through the entire installation instructions upon receipt to ensure that all parts have been received and that all customer-supplied materials are procured prior to the start of installation.

Introduction

Thank you for purchasing the Mini Pirate Tower! Before we begin, please take some time to familiarize yourself with the components, tools, and installation steps to ensure adequate preparation for a smooth installation.

General Information

This equipment should be installed, inspected, maintained, and operated in accordance with ASTM F1487 or CSA-Z614 guidelines.

The installation site shall have a flat and level surface with a maximum slope of 3%.

For product support, including questions regarding installation, or to obtain replacement parts, please contact your equipment dealer.

Following installation, the complete assembly instructions, maintenance instructions, and maintenance records must be sent to the operator who must confirm receipt in writing. See the last page of this document.

We hereby confirm that this play equipment has been tested and certified in accordance with the play equipment standards ASTM F1487 and CSA-Z614 when properly installed.

Drawings/Views

The manufacturer reserves the right to make reasonable changes to technical details of our products for enhanced safety and assurance for users and operators.

Measurement Tolerances

Due to the properties and characteristics of the components above surfacing level, actual measurements may vary from those indicated in the diagrams. The manufacturer has established safe tolerances for these components.

Specifications

Assembly Time..... Approx. 3 hours
(after completion of foundations)

Personnel Required 3

Equipment

Height..... 153.5 in (3900 mm)

Footprint..... 185 x 185 in
(4700 x 4700 mm)

Use Zone..... 329.5 x 329.5 in
(8360 x 8360 mm)

Fall Height ..... 72.0 in (1829 mm)

Age Group ..... 5 to 12 years

Capacity 20

Largest Component: Post..... 185 in x Ø 6.26 in
(4700 mm x Ø 159 mm)

Heaviest Component: Post ..... 251.5 lb (114 kg)

Foundations

Concrete Mix C25/C30

Approx. Required Concrete: ..... 17.80 ft³ (0.51 m³) outer foundations total
20.80 ft³ (0.59 m³) middle foundation
1.13 ft³ (0.032 m³) pipe fill

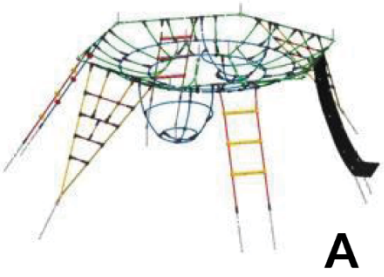
Foundation List

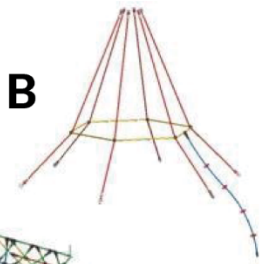
See page 8.

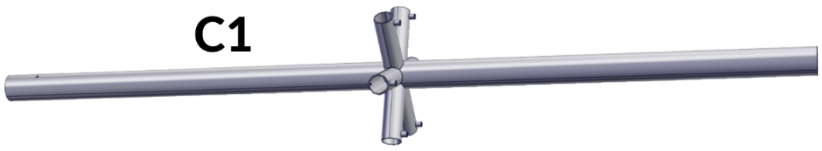
Drainage Stone..... 9.47 ft³ (0.27 m³) total
(4 inches of stone required beneath each foundation)

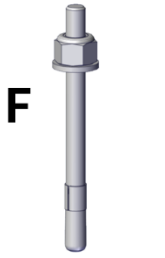
In the case of sandy and soft soils, the size of the foundations must be enlarged by 50%.

Parts List

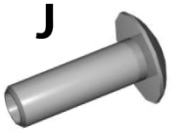


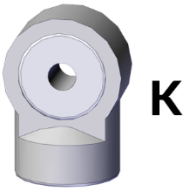






Part	Description	Qty Ship	Qty Rec
A	Mini Pirate Tower Net Element	1	
B	Guy Rope Assembly	1	
C1	Post	1	
C2	Post Stanchions	6	
D	Platform	1	
E	Top Connection Plate	1	
F	Foundation Anchor Assembly	10	
G	M12 x 30 mm Bolt	4	
H	M12 x 25 mm Bolt	6	
I	M12 Toothed Washer	10	
J	Barrel Nut	6	
K	Bearing Adapter	6	
L	M16 Threaded Rod	1	
M	M16 Hex Nut	1	
N	Post Cap	1	
O	M16 Washer	1	
P	M16 Locknut	1	
Q	Stanchion Caps	6	
R	Self-tapping Screws	18	





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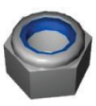
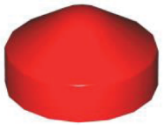




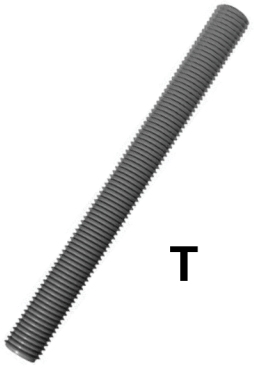
Color may differ.

Continued >

Parts List
Continued

Part	Description	Qty Ship	Qty Rec
S	Thread Locking Adhesive	2	
T	M12 Threaded Rod	1	
U	M12 Hex Nut	2	
V	Compliance Stickers	2	
W	Stake Anchor	2	
X	Middle Foundation Pipe* *(not included - 1 required)* ø 10 in x 25.5 in Schedule 40 (ø 250 mm x 650 mm)	-	
Y	Concrete Slab *(not included - 1 required)* About 16 x 16 in (400 x 400 mm)	-	

S



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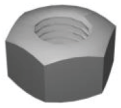

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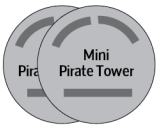

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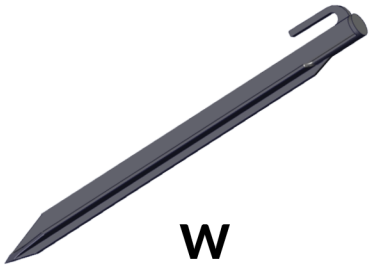

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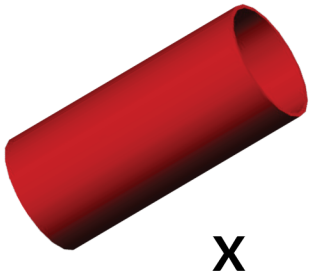

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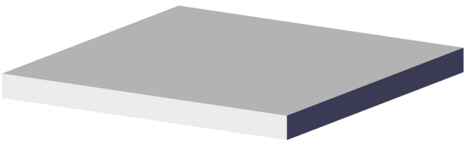


Y

*__Notes on Foundation Pipe (X):__ The foundation pipe is intended to provide easier and safer installation by allowing the majority of concrete to be poured prior to installation so that the post can be erected into the pipe in the cured foundation. At a point during installation, specified in the instructions when the post is erected and level, concrete fill inside the foundation pipe around the post will complete the foundation and secure the structure.

The pipe can be made of any non-deteriorating material with enough integrity to hold back the concrete when poured around it. The pipe diameter specified is the minimum. If using a larger diameter pipe, the ratio of foundation concrete to pipe fill listed in the specifications will be different. Pipe length must be as specified; the pipe will protrude from the top of the finished foundation about two inches. For concrete and stone requirements, please see the foundation specifications on page 3.

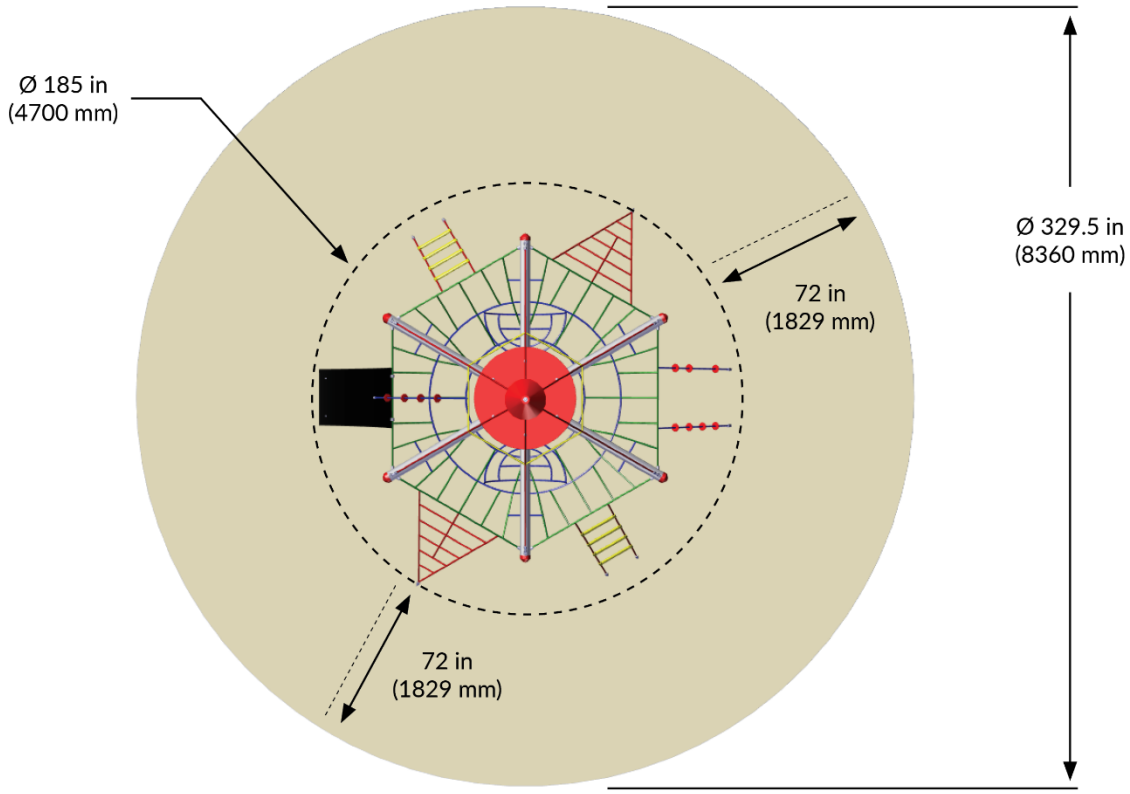
Installation

Part A: Site Prep and Use Zone

Be sure that the chosen site is well drained and level, with a 3% maximum slope.

A clear path and adequate protective surfacing are required 72 inches (1829 mm) measured out from a circle at which the outermost element anchor line reaches the surfacing, as shown.

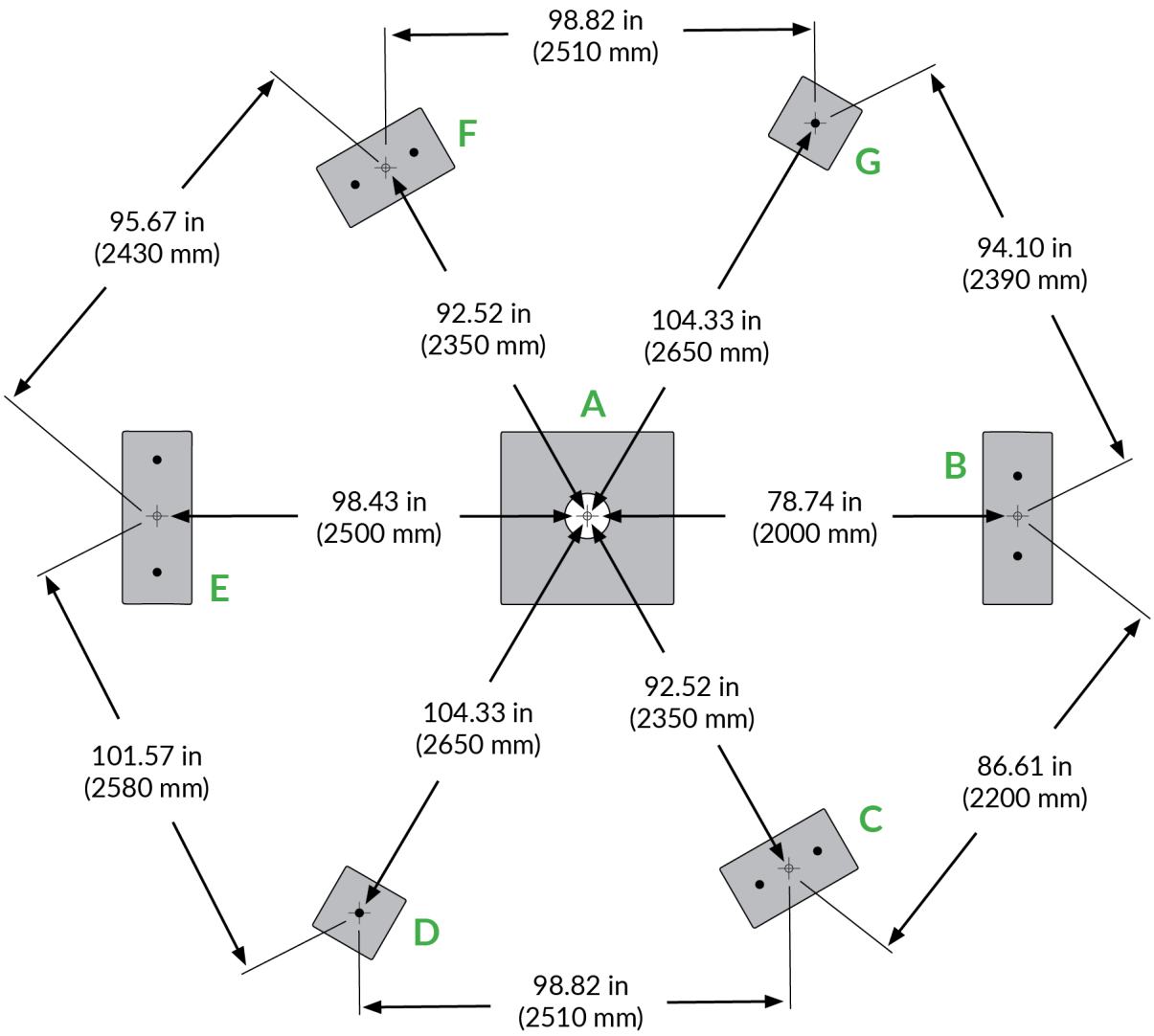
The diagram is a guide for finding the measurement points only. The actual measurement points will be determined by the height of the surfacing material and installation methods used.



Installation

Part B: Foundation

- Seven concrete foundations are required for the Mini Pirate Tower. Use the diagram below to find the exact locations of the center of each foundation.

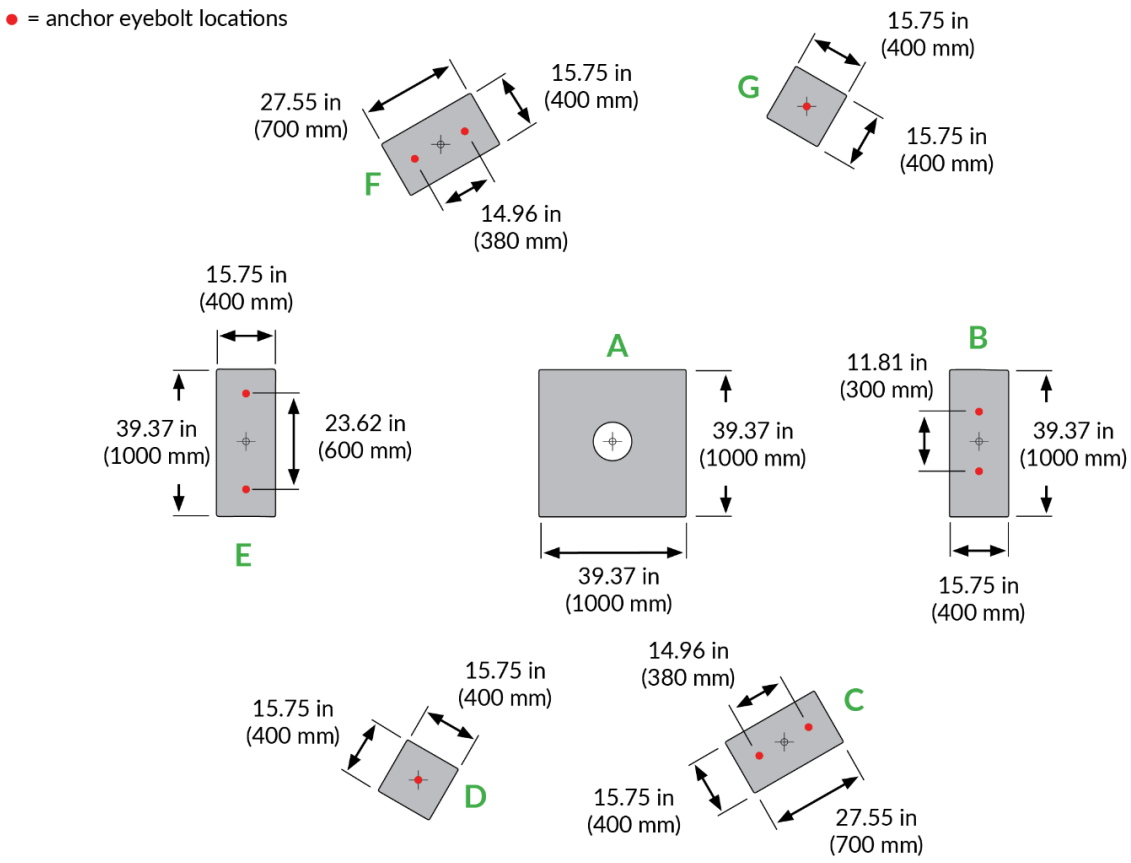


- Dig all seven foundation holes to the following dimensions. Depth dimensions include surfacing and 4 inches (100 mm) for drainage stone.

  The depth indicated for each foundation is measured from the top of the intended surfacing level to the bottom of the drainage stone.

Middle Foundation (A) Dig Depth: 43.5 in (1100 mm)

All other foundations (B, C, D, E, F, G) Dig Depth: 31.5 in (800 mm)



A - Middle Foundation.....39.37 x 39.37 in (1000 x 1000 mm)

B – Ramp.....39.37 x 15.75 in (1000 x 400 mm)

C – Ladder .....27.55 x 15.75 in (700 x 400 mm)

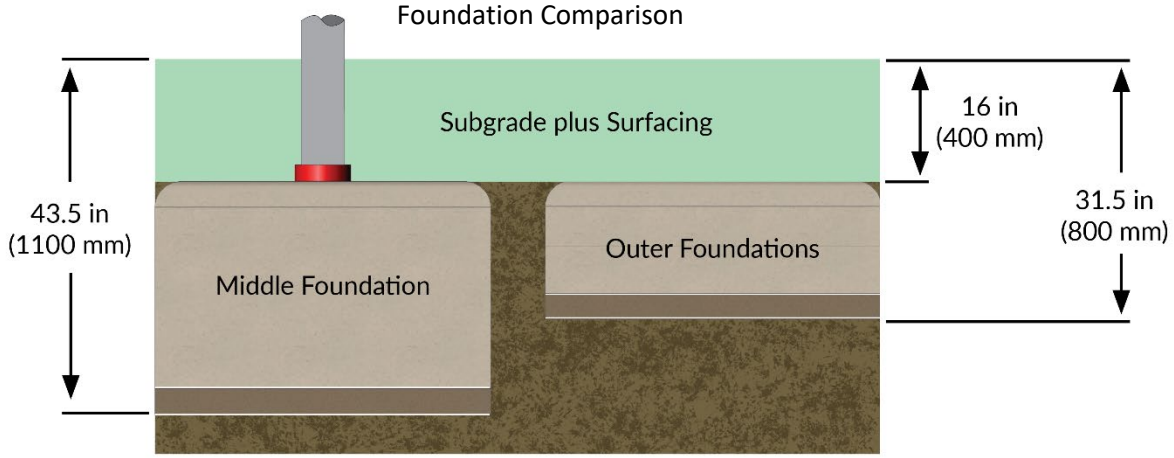
D – Cargo Net.....15.75 x 15.75 in (400 x 400 mm)

E – Climbing Ropes.....39.37 x 15.75 in (1000 x 400 mm)

F – Ladder.....27.55 x 15.75 in (700 x 400 mm)

G – Cargo Net.....15.75 x 15.75 in (400 x 400 mm)

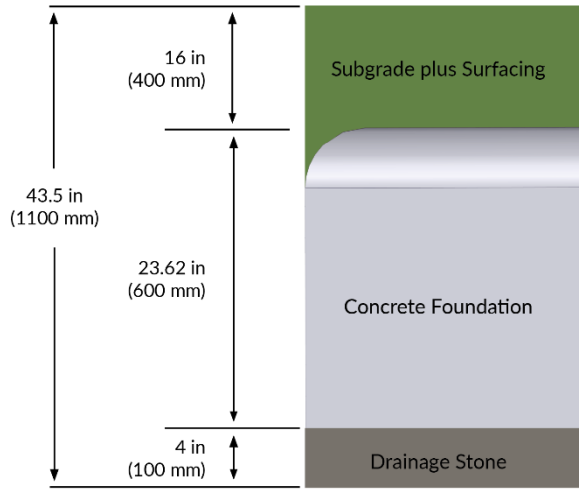
Foundation Comparison



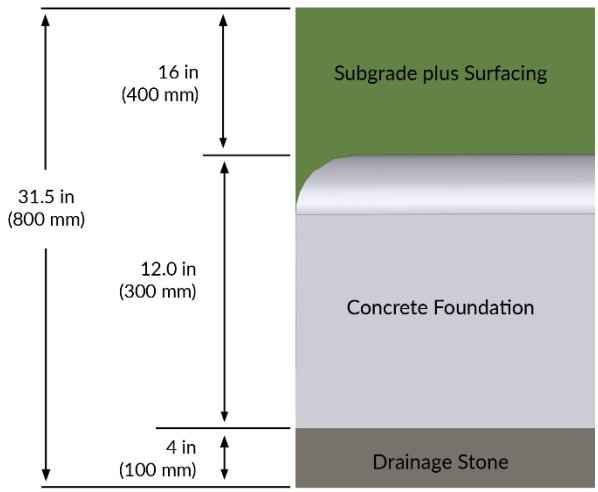
The required foundation depth is critical to meet the manufacturer's specifications for safe use and compliance.

Please refer to ASTM F1292, ASTM F1951, ADA, and ABA standards when choosing the type and thickness of surfacing material.

Middle Foundation



Outer Foundations



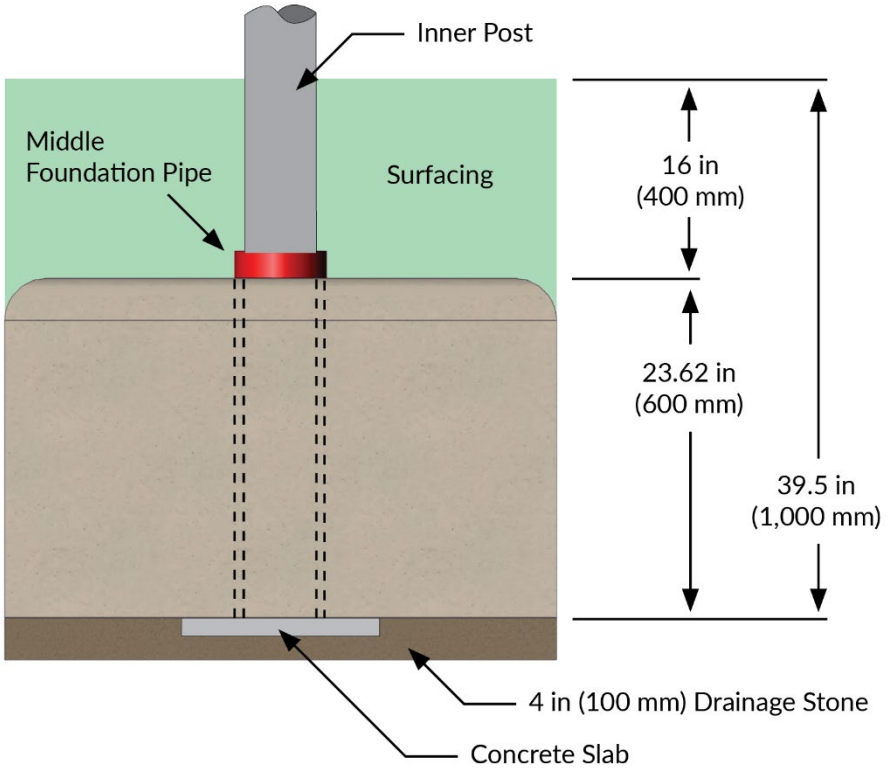
- Place 4 inches (100 mm) of drainage stone evenly on the bottom of each foundation hole.

Middle Foundation Assembly

- In the center of the foundation hole, nestle the concrete slab (Y) into the drainage stone so that the top of the slab is flush with the top of the stone. Check that the depth from the top of the concrete slab to the intended top level of surfacing is 39.5 inches. Adjust as needed.

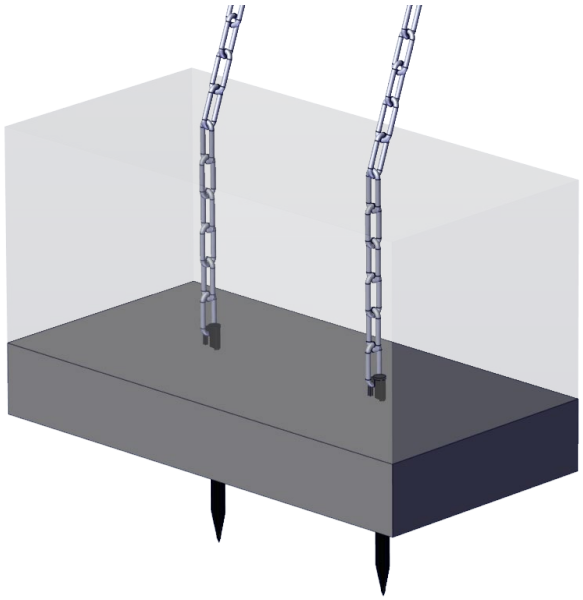
- Place the middle foundation pipe (X) on-end onto the center of the concrete slab, ensuring both are level and the pipe is straight.

- After concrete is poured in a later step, the middle foundation pipe should protrude from the top of the concrete foundation by a couple inches.



Ramp Foundation Stake Anchors

Stake anchors must be installed in foundation B for the ramp element prior to pouring concrete. If the chains are already installed to the ramp, please remove them, and set the hardware aside.



- In the base of foundation B, drive the anchor stakes into the drainage stone at the locations marked on the diagram on page 8.
- Hook one end of each chain to the hook at the top of the anchor stakes.
- Drive each stake down through the stone and into the dirt beneath until the chain end is about at the top of the drainage stone.
- Suspend the chain so that it hangs straight up from the stakes, above the level of concrete to be poured in the next step. Be sure to keep the chains at the exact locations as the stakes, as shown in the diagram on page 8.

Concrete

- Pour all seven concrete foundations. Do not fill in the middle foundation pipe.
- Round the top corners of each foundation to a 4 in (100 mm) radius.
- Allow to set for the concrete manufacturer's recommended amount of time before proceeding to the next step.

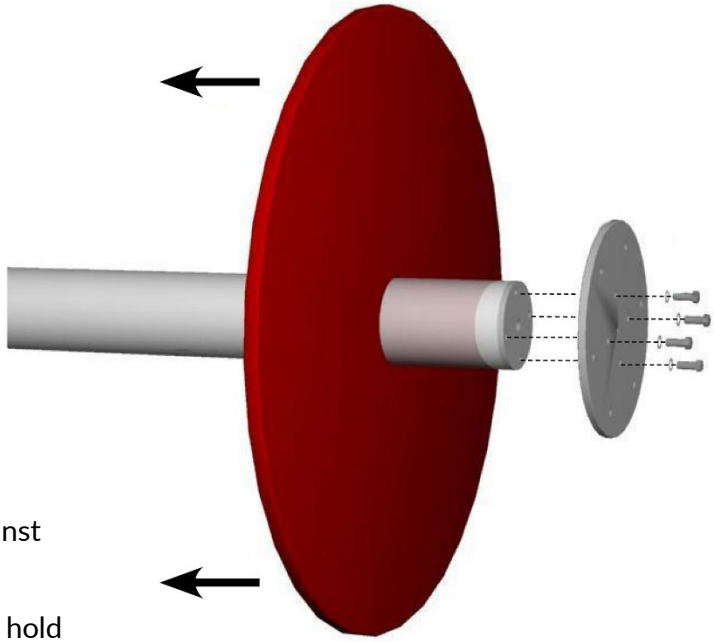
Apply at least 5 drops of thread locking adhesive (S) to the threads of all nuts, bolts, and screws when installing. Do not apply thread locking adhesive to locknut (P).

In addition, the threads of stainless steel hardware must also be sprayed with Teflon spray or similar lubricant (not included) to prevent cold welding.

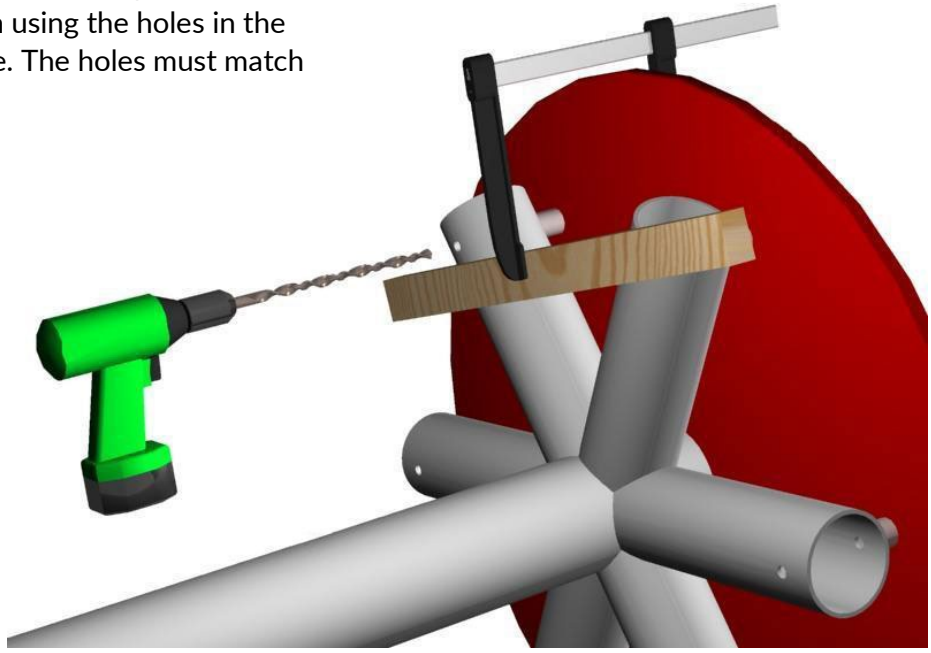
Installation

Part C: Structure

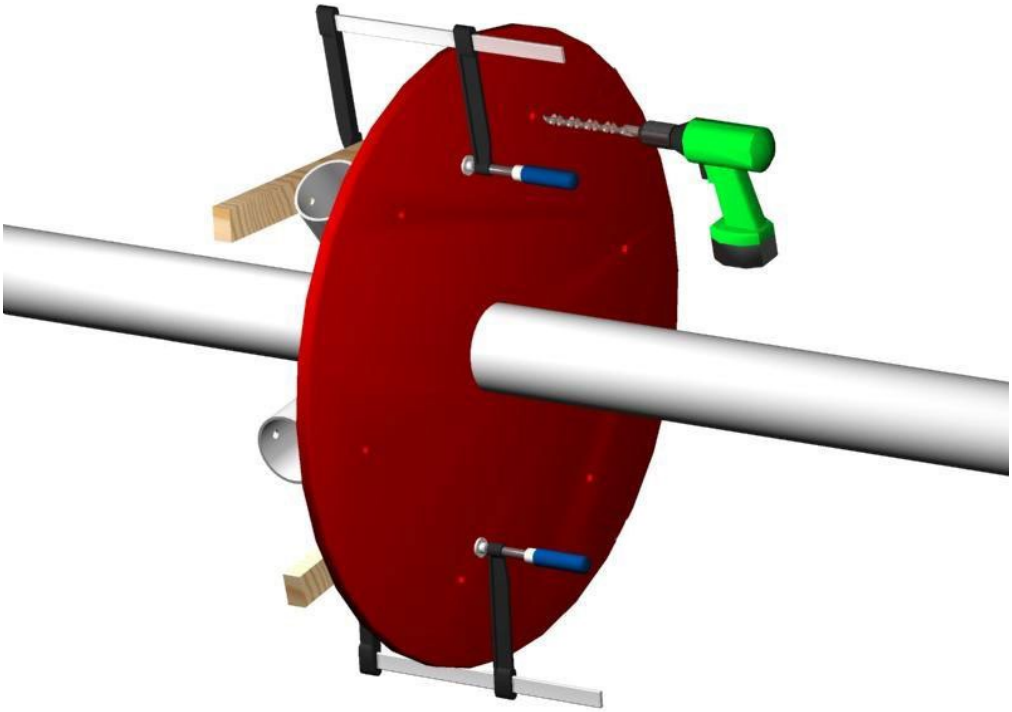
- Slide the platform (D) onto the post (C1) from the top.
- Bolt the top plate (E) onto the post plate with 4 M12 x 30 mm bolts (G) and toothed washers (I) as shown.

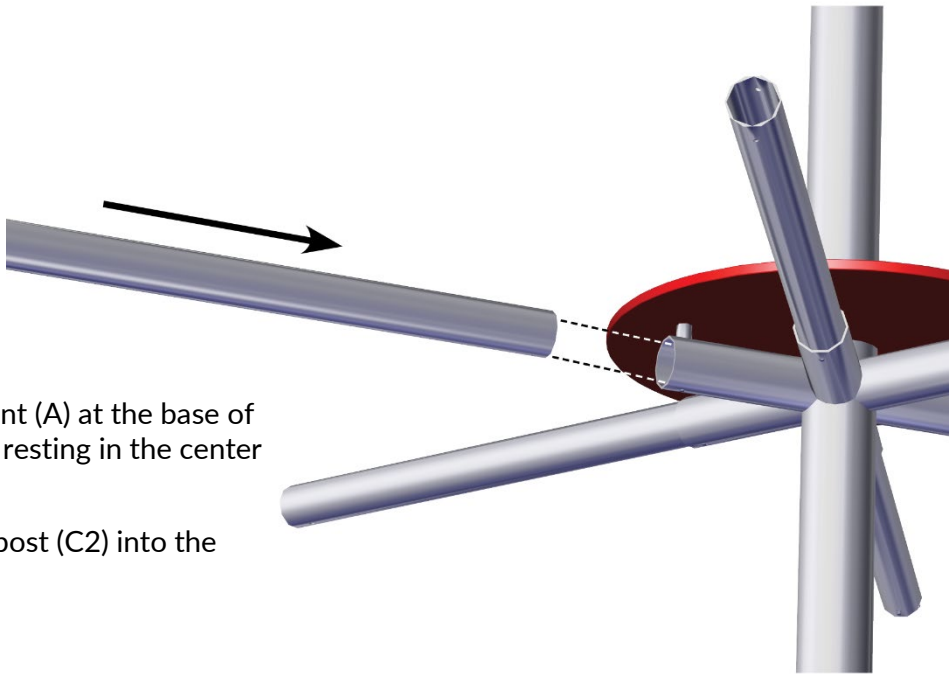


- Slide the platform down until it is flat against all stanchion standoffs.
- Use one or more C-clamps to temporarily hold the platform securely against the standoffs. Use a solid piece of lumber to distribute the pressure and to protect the stanchions.
- Using an 8 mm drill bit, carefully drill through the platform using the holes in the stanchions as a guide. The holes must match the stanchion holes.



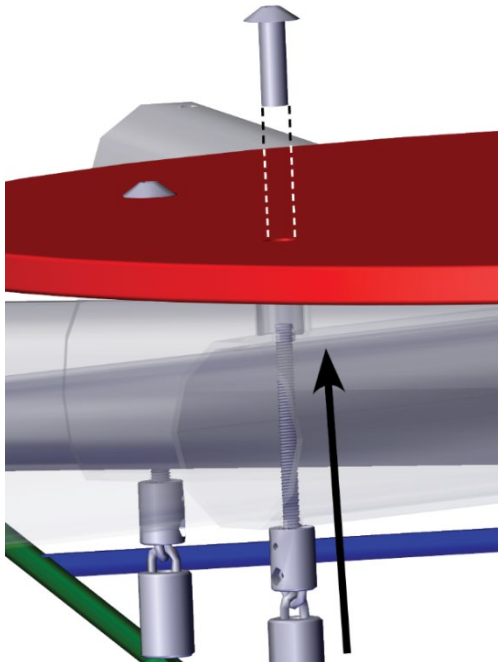
- With all 8 mm holes drilled through the stanchions into the platform, widen the holes in the platform by drilling them with a 17 mm drill bit from the other side. Do not drill through the holes in the stanchion with the 17 mm drill bit.



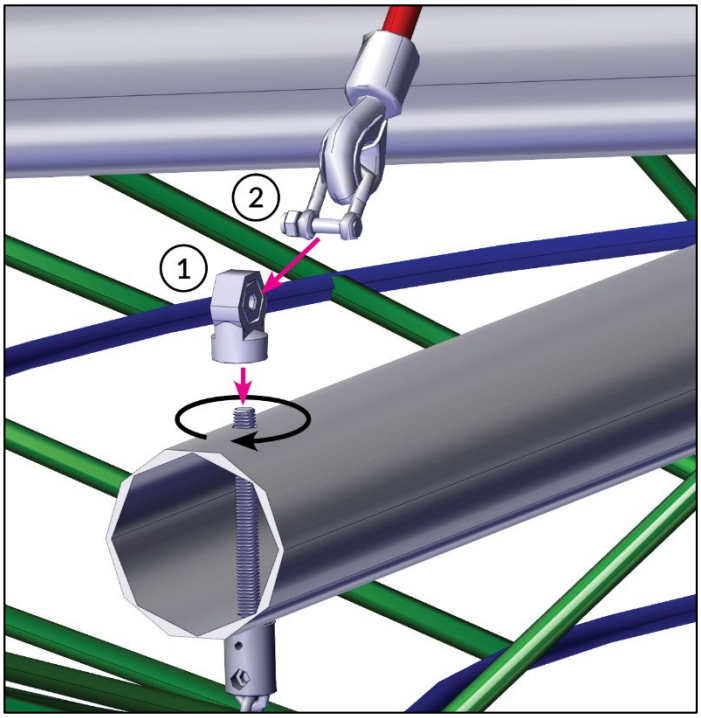


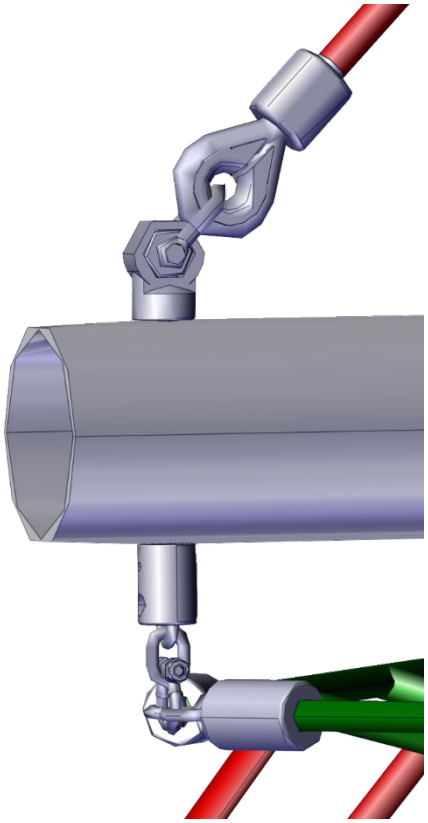
- Position the net element (A) at the base of the post with the post resting in the center opening of the net.
- Insert each stanchion post (C2) into the stanchions as shown.

- There are 6 threaded rod attachment points on the inner portion of the net element which connect through each stanchion/platform hole drilled earlier. Slide each threaded rod through the corresponding hole from the bottom of the stanchion, through the standoff, and up into the platform.
- Using the barrel nuts (J), thread each one onto each of the threaded rods from the top side of the platform as shown on the right.
- Once threaded, tighten all barrel nuts.
- The outer threaded rod fittings of the net element mount through the outer stanchion pole holes in the same manner and are connected on the other side by threading and tightening the bearing adapters (K).

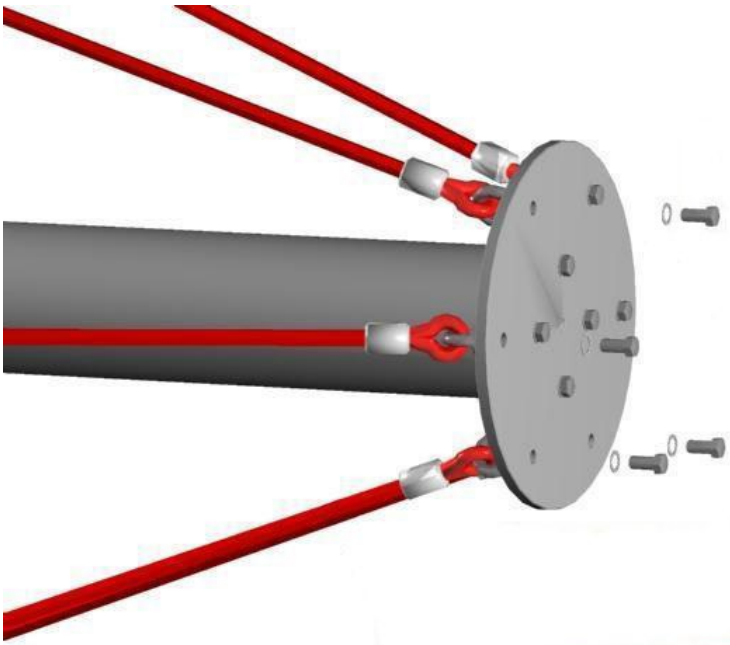


- Place the guy rope assembly (B) over the top of the post.
- Line up the guy ropes to each stanchion and connect the shackle at the end of each rope to the eye of the bearing adapters.

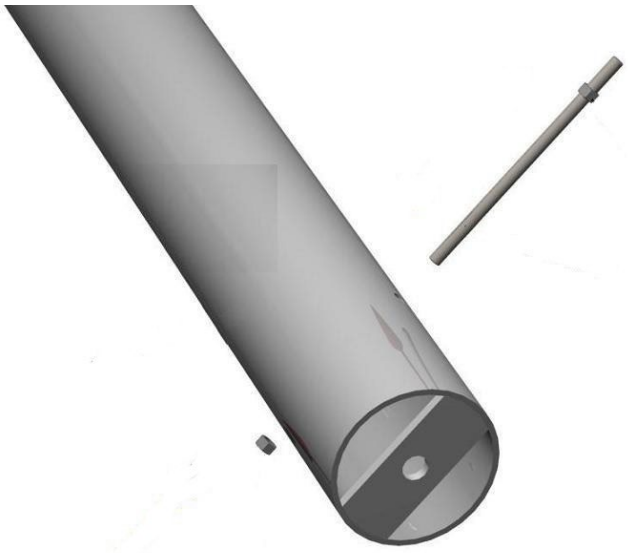




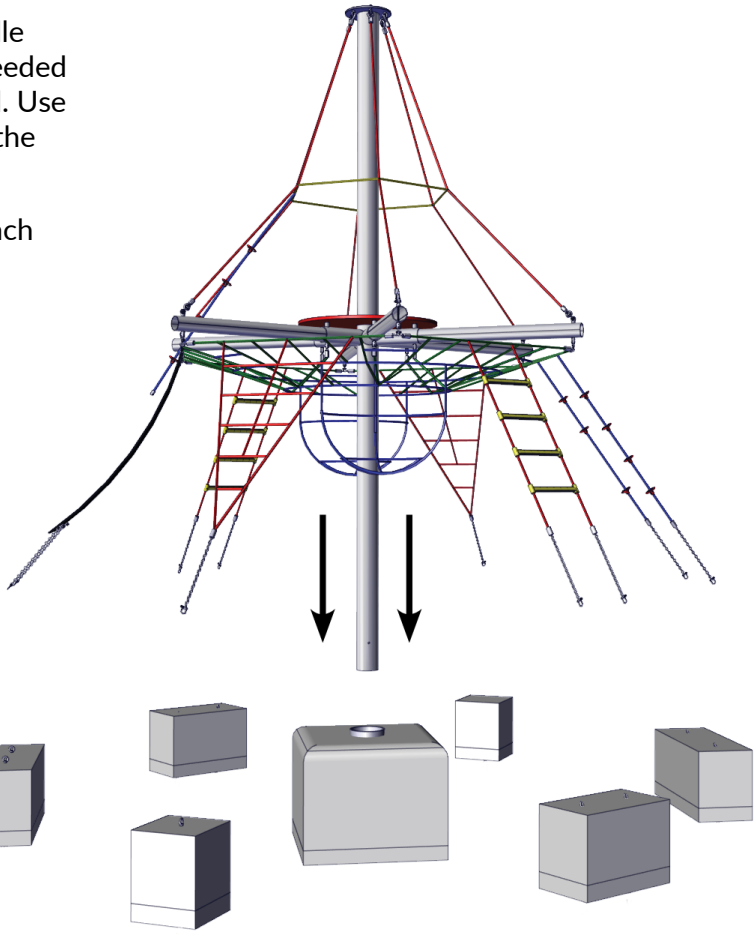
- Attach the 6 top eye nuts of the guy rope assembly to the underside of the top plate with 6 M12 x 25 mm bolts (H) and toothed washers.

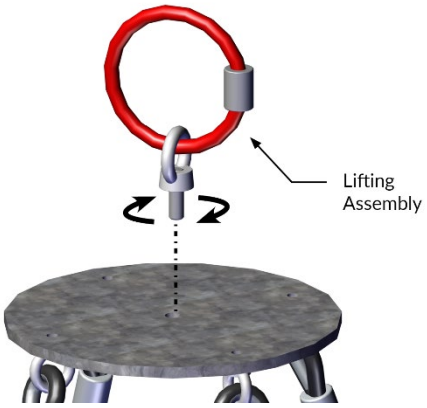


- Place the M12 threaded rod (T) through the holes near the bottom of the post and tighten M12 hex nuts (U) against the post on either side of the rod. An equal length of rod should extend on either side. This helps prevent the post from loosening in the concrete.



- Set the structure assembly into the middle foundation. Lifting equipment may be needed to safely maneuver the structure vertical. Use the lifting eye mounted in the center of the top plate.
- Once set, rotate the structure to align each descending element with its designated foundation anchor.



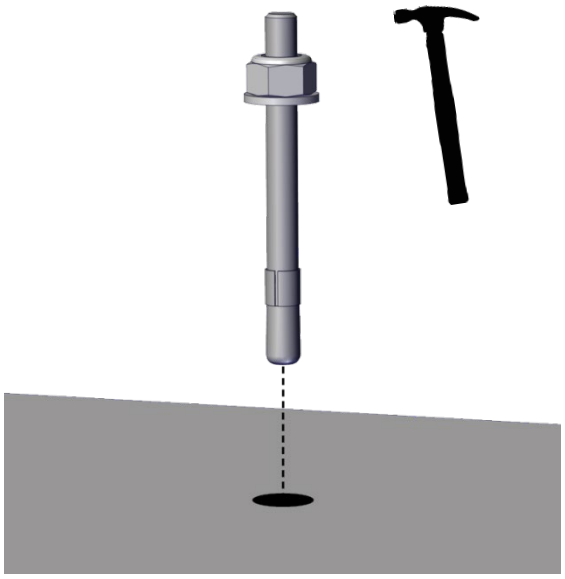


- Check the structure post with a level to ensure that it is sitting straight. Remove the lifting eye from the top plate when finished.

Outer Foundation Wedge Anchors

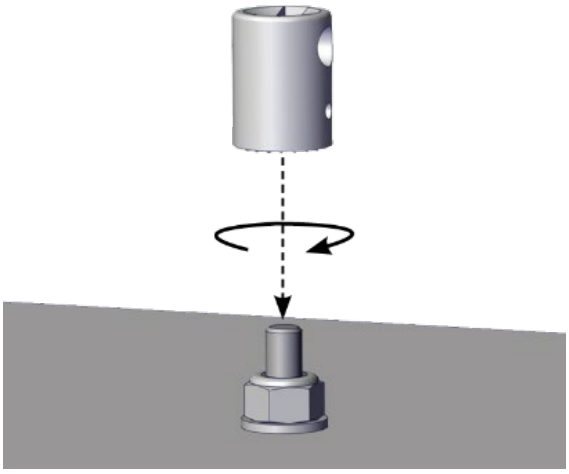
A wedge anchor assembly is required for each anchor point of the outer foundations. These will later secure the chain at the base of each element.

Use the diagram on page 8 to find the exact locations of each anchor. Mark each anchor point on the tops of the foundations. Be sure to keep the anchor points aligned with the center point of the foundations measured to earlier, to keep the distance correct. On foundations with two anchors, anchor points should be equal distance from either side of the center point.

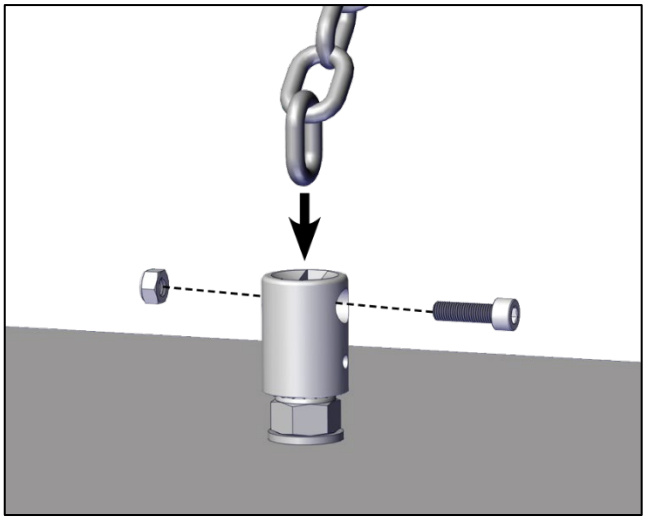


<u>For each anchor point:</u>

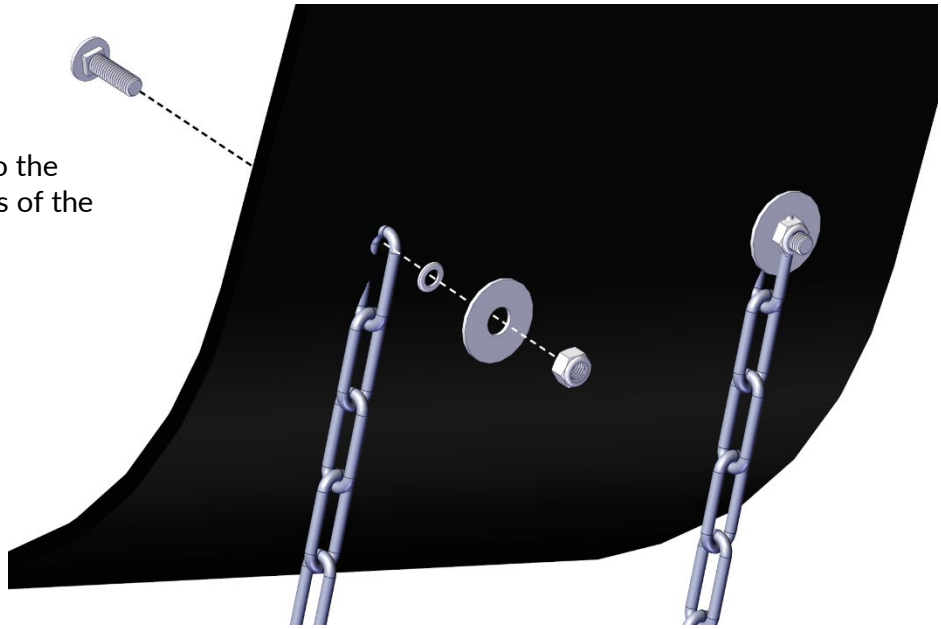
- Use a 1/2 in (12 mm) drill bit and hammer drill to drill a hole 3-3/8 in (85 mm) deep into the outer foundation at the marked anchor location.
- Clear all dust and debris from the hole with compressed air.
- Insert the anchor as shown and use a hammer to set the anchor at the deepest depth.
- Screw the chain anchor onto the threads at the top of the wedge anchor.



- Connect the anchor chain of each element to its foundation anchor as shown, by inserting the end chain link into the anchor, and secure using the assembly's bolt and nut.



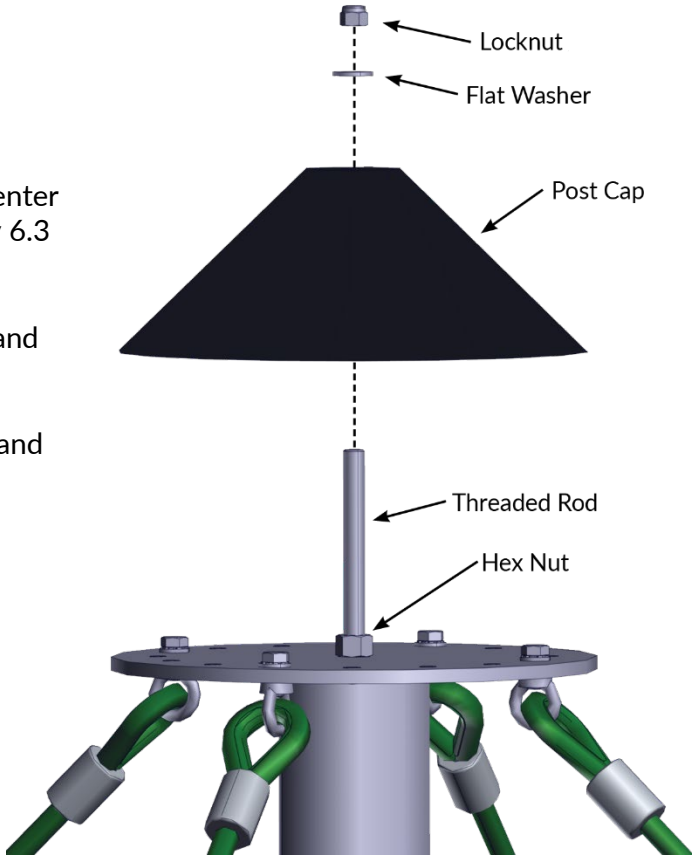
- Attach the ramp chains to the bottom connection points of the ramp as shown.



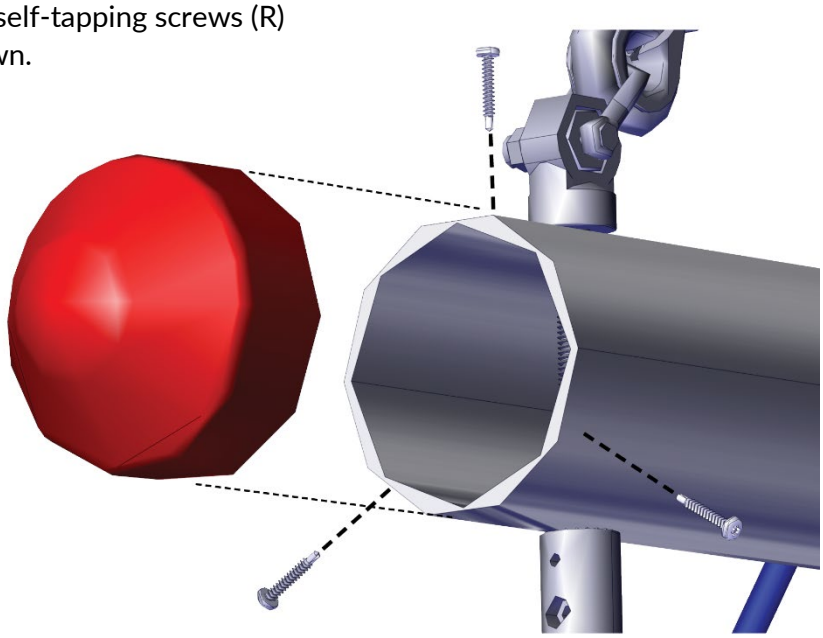
Installing the post cap:

- Screw the M16 threaded rod (L) into the center hole of the top plate leaving approximately 6.3 inches of rod exposed.
- Thread the M16 hex nut (M) onto the rod and tighten against the top plate.
- Fit the post cap (N) onto the threaded rod and secure on top with the flat washer (O) and locknut (P).

Note: No threads of excess rod should be exposed above the locknut. If there is, remove the post cap and thread the rod a little deeper into the connection plate, then reassemble the post cap.



- Install each stanchion cap (Q) to the horizontal stanchion pipes. Fit the end cap all the way onto the pipe end, then use 3 self-tapping screws (R) to secure the cap as shown.

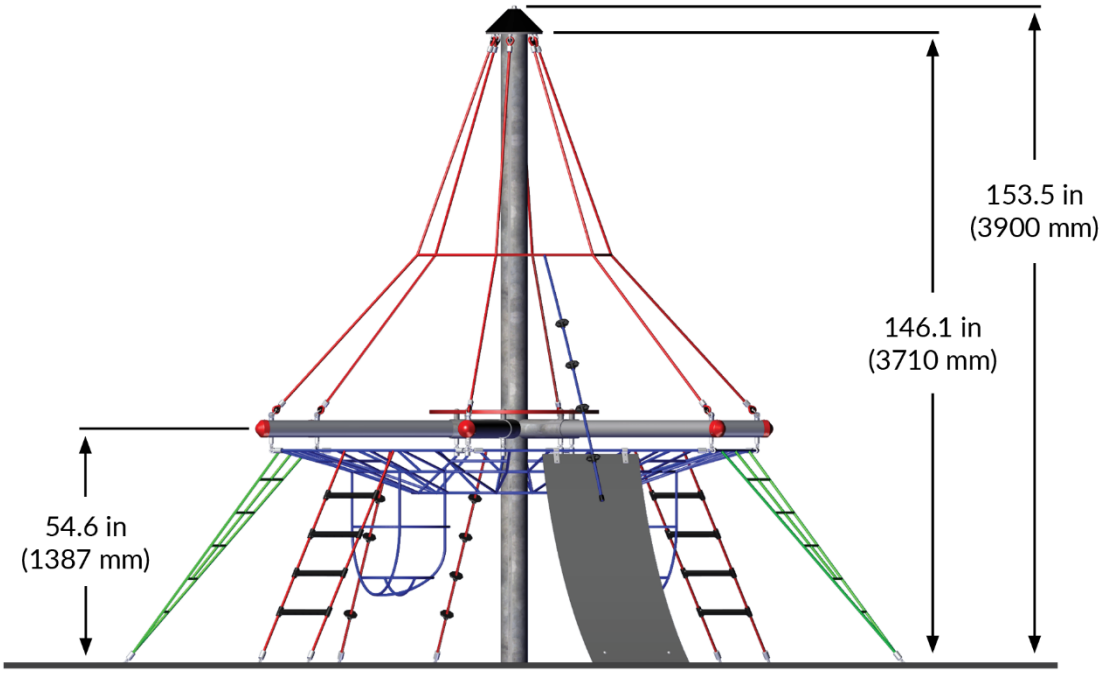


- Confirm height measurements to the Critical Dimensions diagram on the next page.
- With the post straight and tensioning complete, fill in the space around the post in the middle foundation pipe with concrete (approximately 1.13 ft^3 or 0.032 m^3) and allow to set for the concrete manufacturer's recommended time.

Finishing

- Place the two compliance stickers (V) onto the structure's post in locations which can be accessed without climbing the net, usually within a few feet above the surfacing. Make sure the surface of the metal is clean and dry before applying the stickers.
- Apply and grade protective surfacing material to the use zone, per ASTM 1292.
- If using loose fill, mark the post at the final level of the surfacing material so that the proper level of fill can be maintained.
- Remove all tools, excess materials, or other assembly aids from the area prior to opening the equipment for play.

Critical Dimensions



Final surfacing level

Final Checklist

Please make sure all following steps have been completed:

( ) Checked the net to be correctly tensioned.

( ) Check measurements to the Critical Dimensions diagram above.

( ) Made sure the post is level.

( ) Poured concrete in the middle foundation pipe around the post.

( ) Applied all necessary surfacing per ASTM 1292.

Maintenance

To maintain safety, the operator must ensure that proper inspection and maintenance is carried out by a competent person in accordance with ASTM F1487 or CSA-Z614, and the following manufacturer recommendations.

Damage which may compromise safety must be repaired immediately. If repairs cannot be immediately carried out, the operator must close the equipment to prevent use.

Replacement Parts

Replacement parts may be obtained through your equipment dealer. Parts not obtained through a dealer must conform to the manufacturer's specifications.

Break-in Period

Between 1-2 weeks after installation (equipment break-in period), check all threaded connections and tighten if necessary. Check the tension on the ropes and re-tension as needed. After the break-in period, the operator may follow the recommended inspection frequency.

Inspection Frequency

With average use and environmental conditions, check the following at or before the recommended frequency. If the equipment is exposed to regular high-use or harsh environments, the inspections should be performed at a shorter frequency. Inspections should also be completed per ASTM 1487 or CSA-Z614 guidelines.

<u>Monthly</u>

- Check all connecting elements and fittings for wear and tear and tighten if necessary. Repair or replace damaged or missing parts.
- Check ropes for excessive wear. If ropes are worn through to the steel wire core, the equipment should be closed to prevent use until the rope is repaired or replaced.

<u>Quarterly</u>

- Check surfacing for adequate depth and fill in as necessary.
- Re-tension the ropes as needed.
- Check the stability of the foundations and post.

<u>Yearly</u>

- Check for corrosion on metal components. It may be necessary to dig out subterranean components to inspect them. Apply zinc paint to any corroded or scratched areas.

Maintenance Log

Copy and return to the owner/operator annually following initial inspection.

Name of operator
(town, school, business, etc.): _____

Equipment Location: _____

Model Name: Mini Pirate Tower

Model Number: 4687-30

Serial Number: _____

Date of Inspection	Inspector	Fault? Yes/No	Details	Repaired By	Repair Date

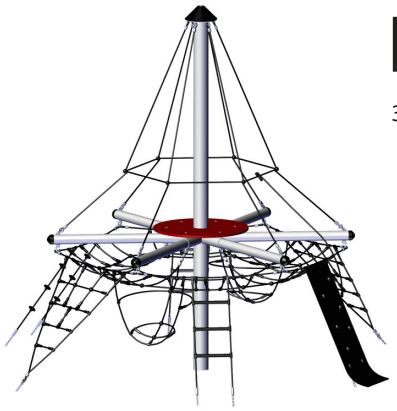
New Product Handover

NetPlay USA LLC
3-D Adventure Play & Innovation

Model Name: Mini Pirate Tower

Model Number: 4687-30

Serial Number: _____



Operator

Name of operator (town, school, business, etc.): _____

Street: _____ City: _____ State: _____ Zip: _____

Representative in charge: _____

Installer

Name of installation company: _____

Street: _____ City: _____ State: _____ Zip: _____

Representative in charge: _____

Installer Checklist:

- ☐ Adequate concrete foundation poured per instructions.
- ☐ Structure assembled per the instructions without modification (unless approved by the manufacturer.)
- ☐ Final inspection conducted and passed per instructions.

Operator received the complete assembly instructions, inspection & maintenance instructions, and maintenance log. Installer completed work to the manufacturer's specifications.

Operator Signature: _____ Date: _____

Installer Signature: _____ Date: _____