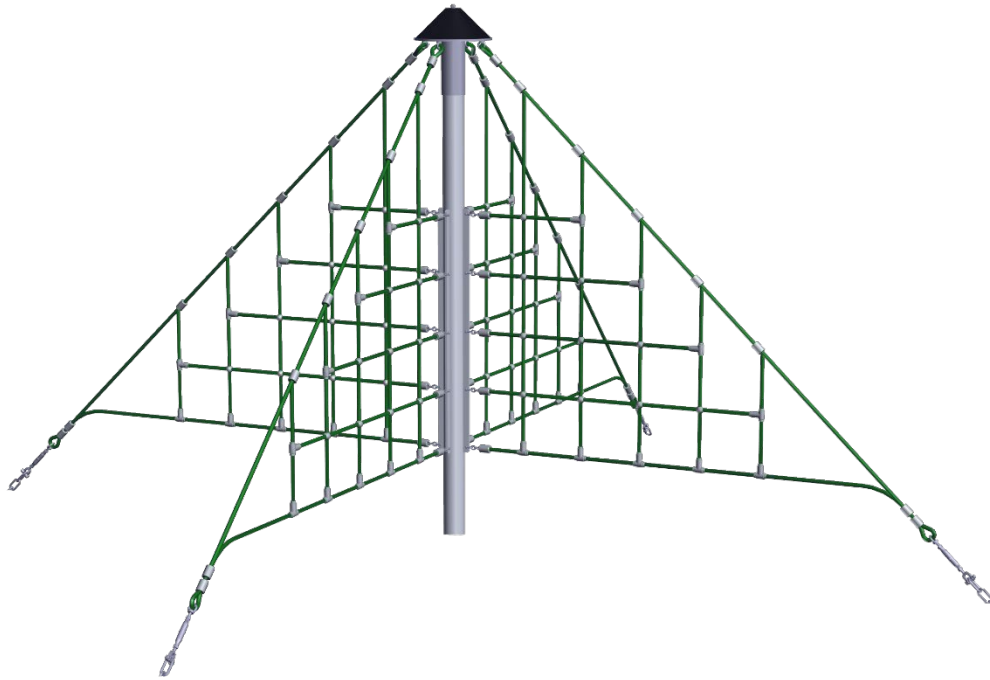


Installation Instructions



Mini X-Pyramid

Model No. 4640-2

Revision History

Initial Release: 09/29/2021

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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 X-Pyramid! 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 F1487-17 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 F1487-17 and CSA-Z614.

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..... 3 hours
(after completion of foundations)

Personnel Required 3

Equipment

Height..... 99 in (2,515 mm)
Footprint..... 140 x 140 in
(3,556 x 3,556 mm)
Use Zone..... 285 x 285 in
(7,239 x 7,239 mm)
Fall Height 59 in (1,500 mm)
Age Group 5 to 12 years
Capacity 16
Largest Component: Post..... 118.11 in x Ø 4 in
(3,000 mm x Ø 101 mm)
Heaviest Component: Post 79.3 lb (36 kg)

Foundations

Concrete Mix C25/C30
Required Concrete:..... 4.42 ft³ (0.13 m³) each outer foundation
3.75 ft³ (0.11 m³) middle foundation
1.85 ft³ (0.06 m³) pipe fill

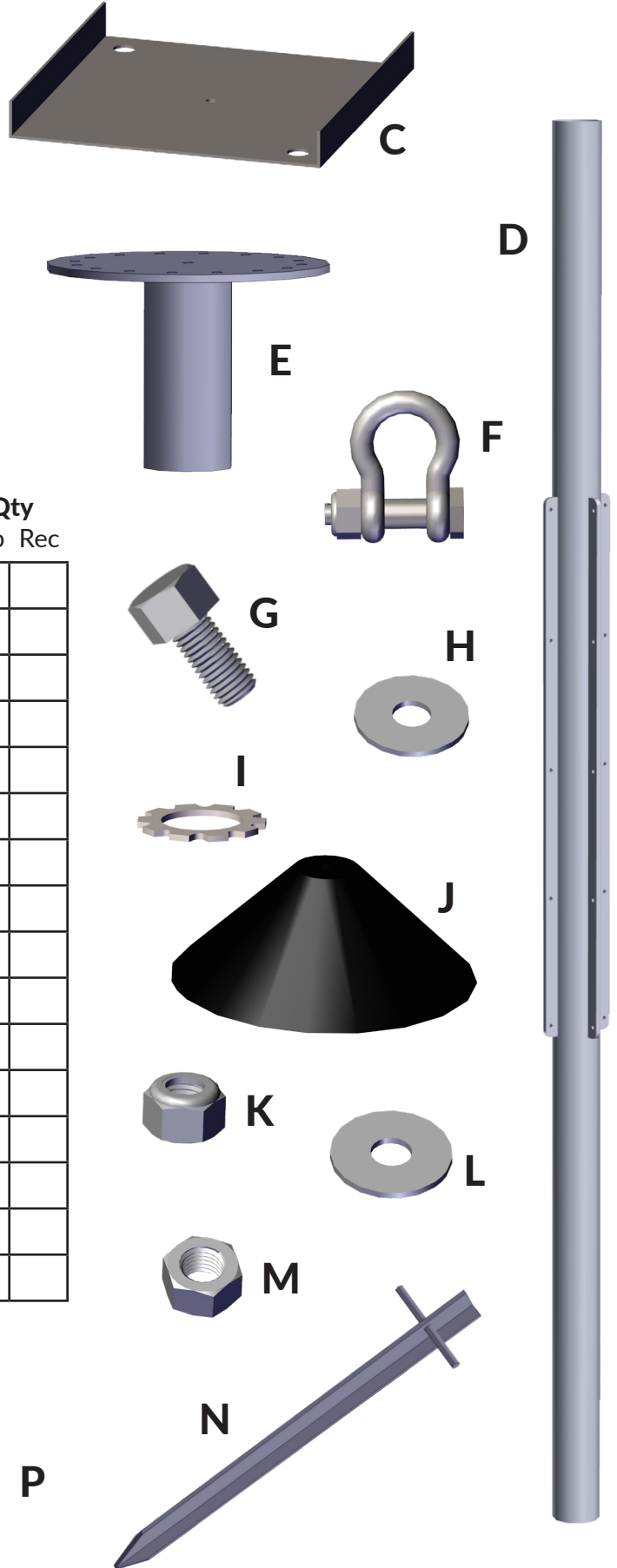
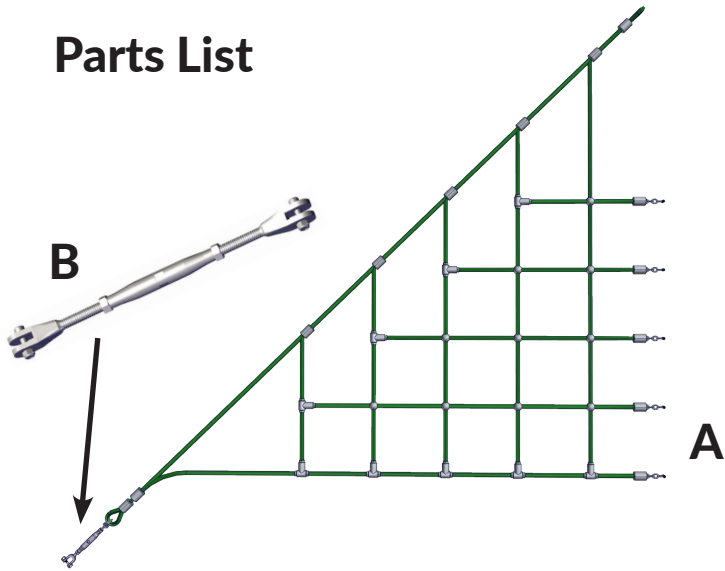
Foundation List

Outer Foundations (Qty 4)..... 19.69 x 19.69 x 19.69 inches
(500 x 500 x 500 mm) LxWxD
Middle Foundation (Qty 1)..... 19.69 x 19.69 x 16.69 inches
(500 x 500 x 425 mm) LxWxD
Drainage Stone..... 4.50 ft³ (0.13 m³) total
(4 inches of stone required beneath each foundation)

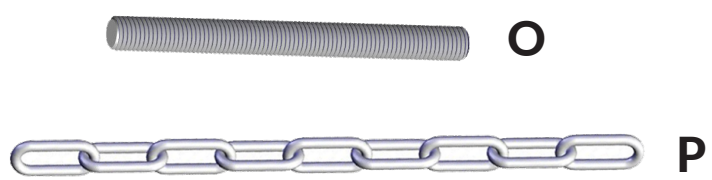


In the case of sandy and soft soils, the size of the foundations must be enlarged by 50%.

Parts List



Part	Description	Qty	
		Ship	Rec
A	Mini X-Pyramid Net Panels	4	
B	Turnbuckle (pre-fitted on part A)	4	
C	Foundation Baseplate	1	
D	Post	1	
E	Post Connector	1	
F	Shackle	20	
G	M12 Bolt	4	
H	M12 Flat Washer	4	
I	M12 Toothed Washer	4	
J	Post Cap	1	
K	M16 Locknut	1	
L	M16 Flat Washer	1	
M	M16 Hex Nut	1	
N	Ground Spike	4	
O	M16 Threaded Rod	1	
P	Anchor Chain	4	



Parts List

Continued

These components must be procured prior to installation.

For concrete and stone requirements, please see the foundation specifications on page 3.

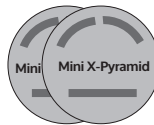
Part	Description	Qty	
		Ship	Rec
Q	Thread-locking Adhesive	1	
R	Turnbuckle Plugs	8	
S	Compliance Stickers	2	
T	Middle Foundation Pipe <i>(not included - 1 required)</i> ø 8 in x 21 in Schedule 40 (ø 200 mm x 530 mm)	-	



Q



R



S



T

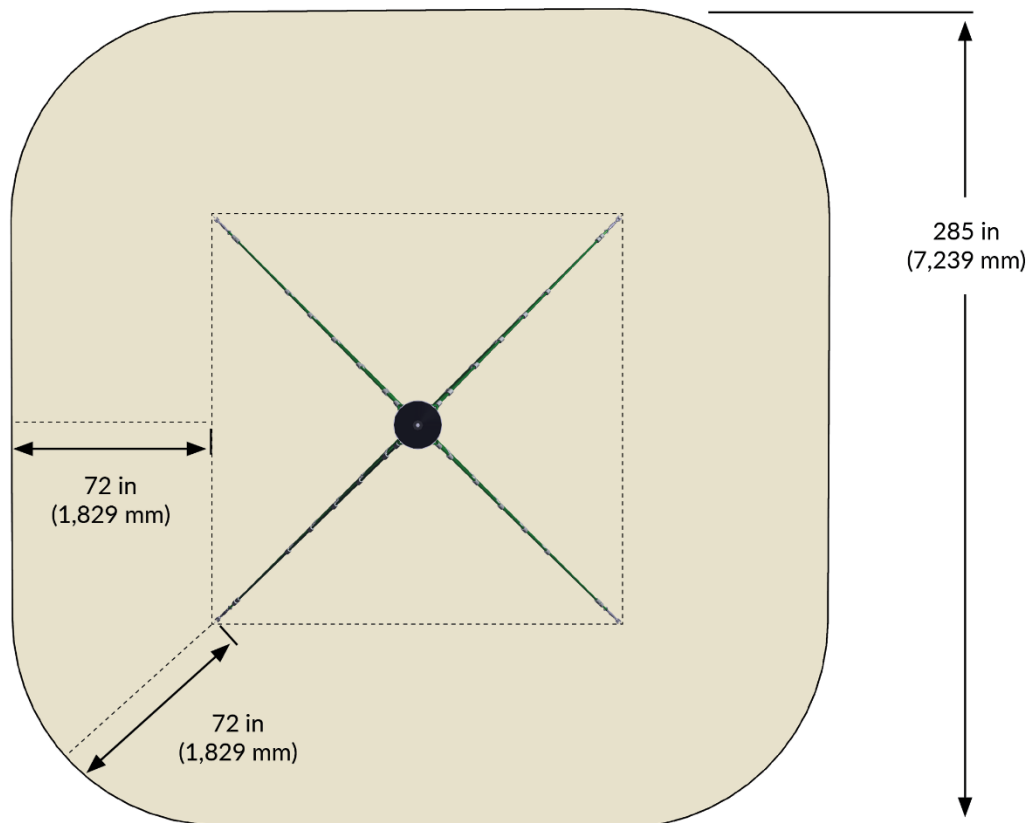
Installation

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 (1,829 mm) from the point where the guyline meets the surfacing on the corners, and from the sides from a line between each corner as shown below.

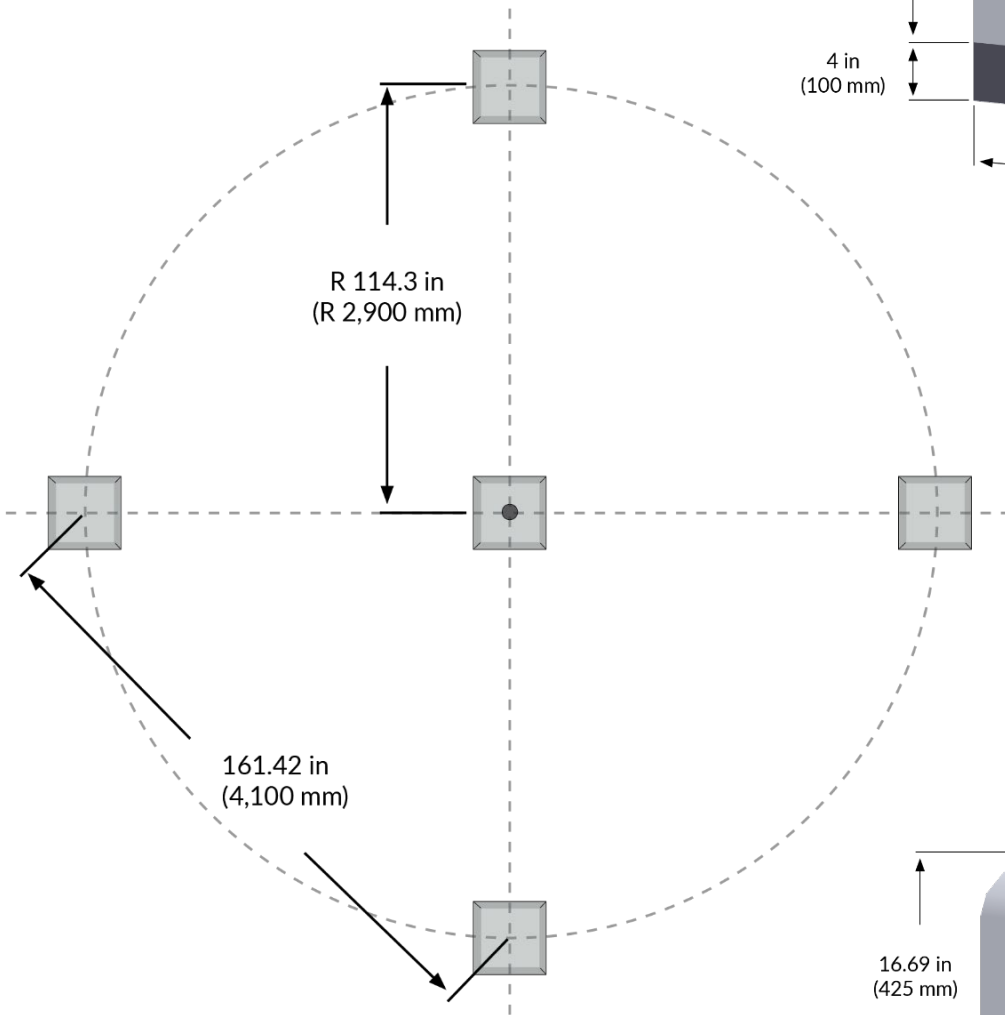
**The diagram is a guide for finding the measurement points only.
The actual measurement points will be determined by the height of
the surfacing material and installation methods used.**



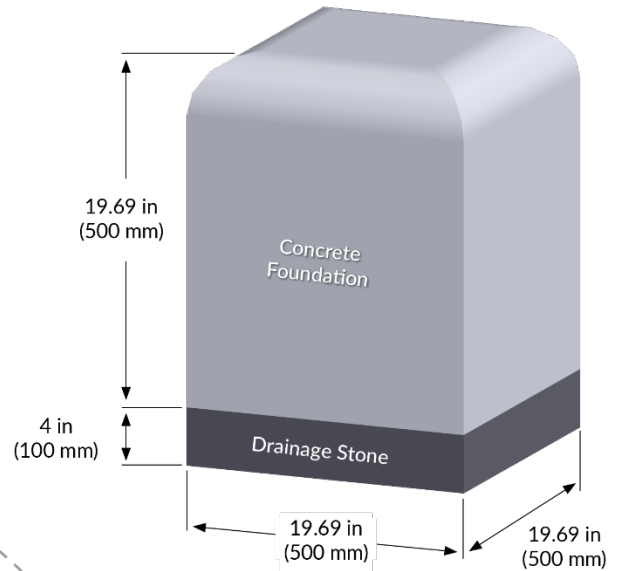
Installation

Part B: Foundation

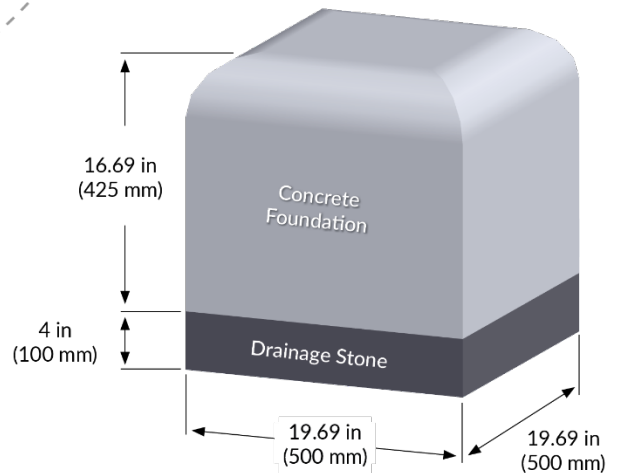
- Five concrete foundations are required for the Mini X-Pyramid. Use the diagram below to find the exact locations of the center of each foundation.



Outer Foundations




Middle Foundation



- Dig all five 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.

Middle Foundation: 19.69 x 19.69 inches wide, and 31.5 inches deep from top of surfacing (500 x 500 mm wide, and 800 mm from top of surfacing)

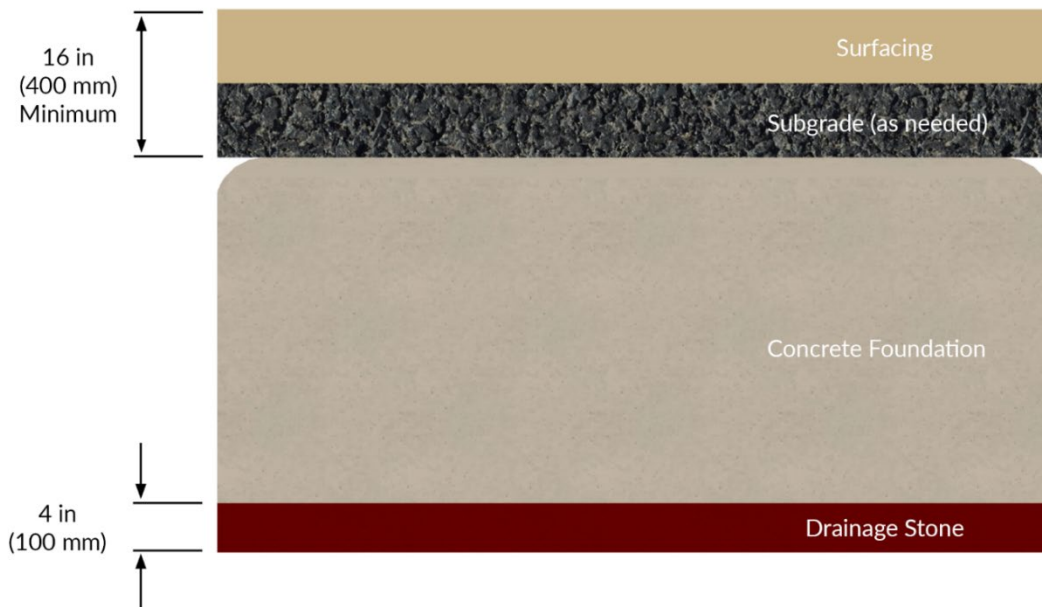
Outer Foundations: 19.69 x 19.69 inches wide, and 43.36 inches deep from top of surfacing (500 x 500 mm wide, and 1,100 mm deep from top of surfacing)



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

Remember that the middle foundation is shallower than the outer foundations. Be sure to gauge the depth so that the TOP of all foundations will be at the same level.

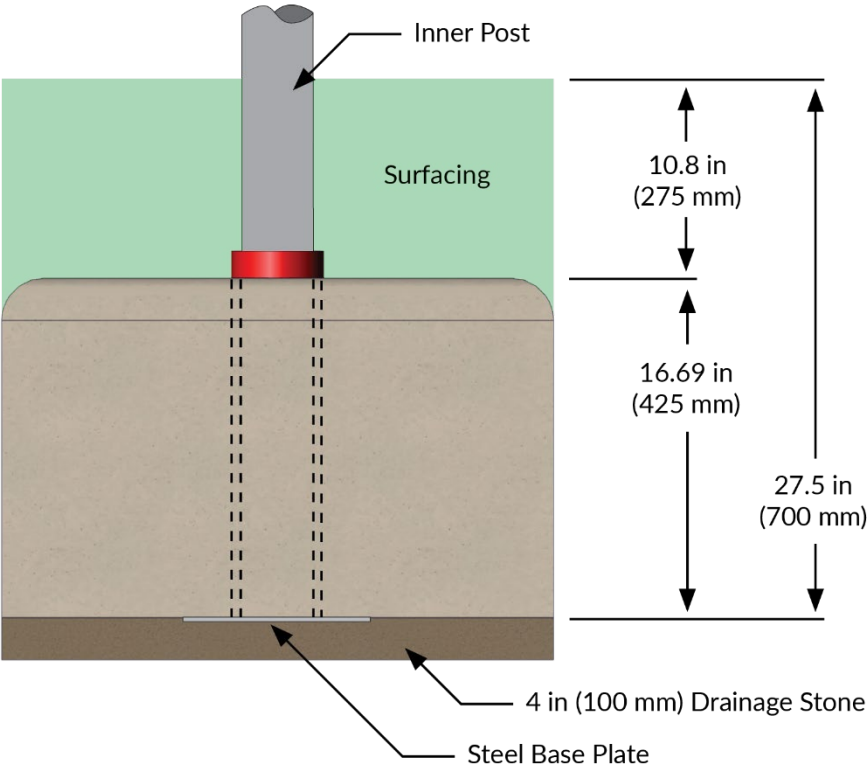
Please refer to ASTM F1292, ASTM F1951, ADA, and ABA standards when choosing the type and thickness of surfacing material.



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

Middle Foundation Assembly

- Place the foundation baseplate (C) flat side down onto the drainage stone at the center point. Align all sides to the foundation.
- Place the middle foundation pipe (T) on-end onto the center of the foundation baseplate, 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.



Outer Foundation Assembly

- For each of the outer foundations, use a ground stake (N) to anchor one end of anchor chain (P) to the bottom center of each foundation hole as shown. The top of the stake and bottom link of chain should be at about the top of the drainage stone.
- Suspend the chain straight up and down from the stake so that when the concrete is poured, the chain will protrude from the top-center of the foundation.



Concrete

- Pour all five concrete foundations.
- 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 (Q) to the threads of all nuts, bolts, screws, and turnbuckles when installing. Do not apply thread locking adhesive to locknut (K).

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

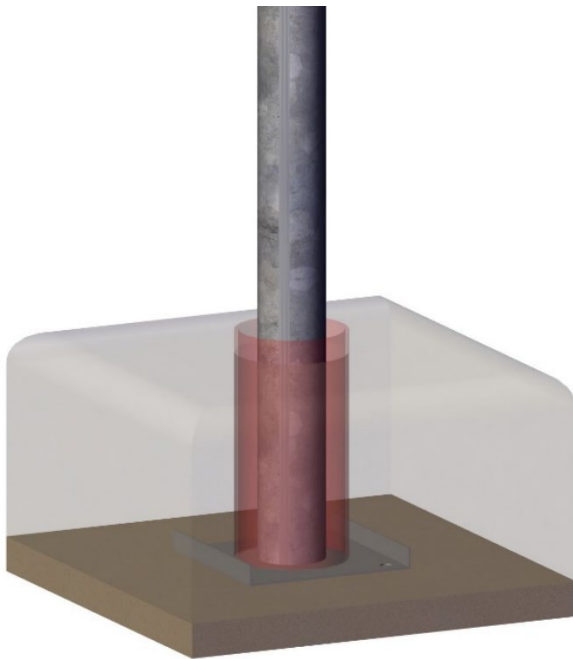
Stainless Steel Hardware:

- Turnbuckles (B)
- Shackles (F)
- M12 Bolt (G)
- M16 Hex Nut (M)
- M16 Threaded Rod (O)

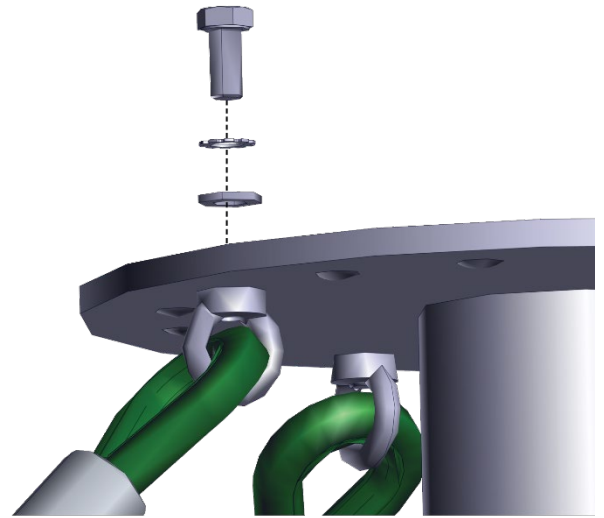
Installation

Part C: Structure

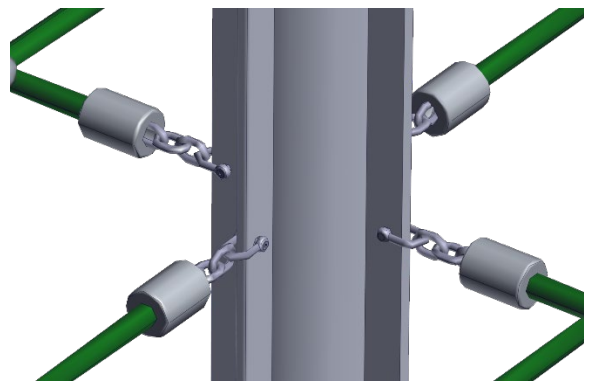
- Insert the base of the post (D) into the middle foundation pipe and onto the base plate.
- Seat the post connector (E) onto the top of the post, with the narrow base of the plate fully inserted over the post.



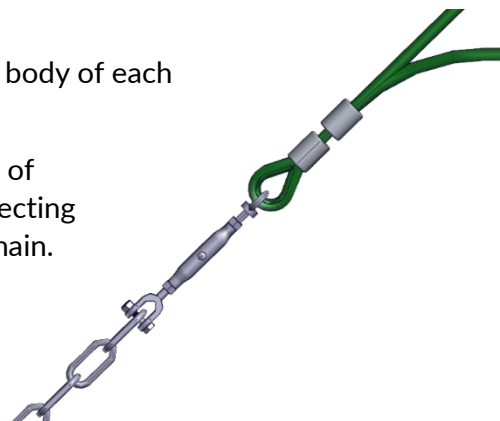
- Secure the four top anchor points of the net (A) to the connection plate using four M12 bolts (G), toothed washer (I), and flat washers (H).
 - Pass the bolt through the washers and connection plate and thread into the eye nuts pre-assembled onto the top net eyes.
 - Remember to use thread locking adhesive (Q) and tighten completely.



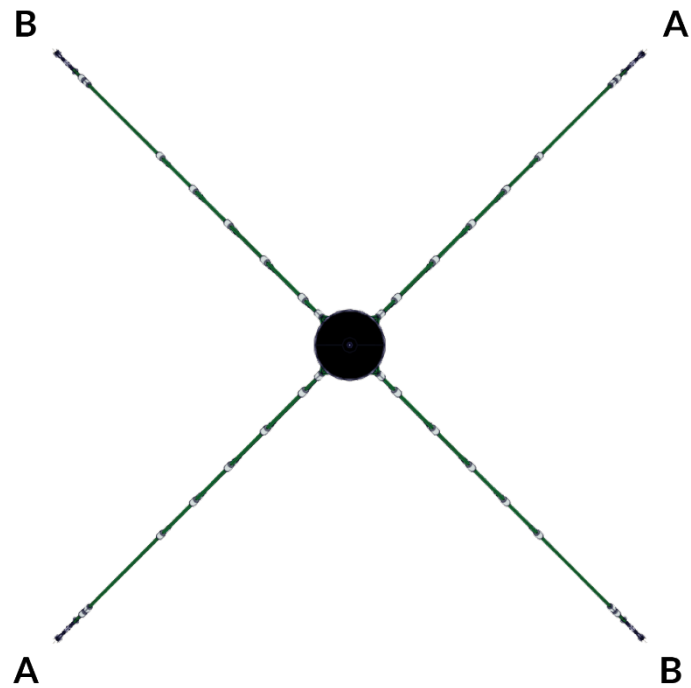
- Attach all 20 post anchors of the net assembly to the post with shackles (F).



- Rotate the net assembly and post as needed to align each outer turnbuckle (B) with a foundation. The turnbuckles are pre-assembled on the bottom corners of the net assembly.
- Insert the turnbuckle plugs (R) into the holes in the body of each turnbuckle.
- Attach the four turnbuckles on the bottom corners of the net assembly to the foundation chains by connecting the jaw end of the turnbuckles to the first link of chain.



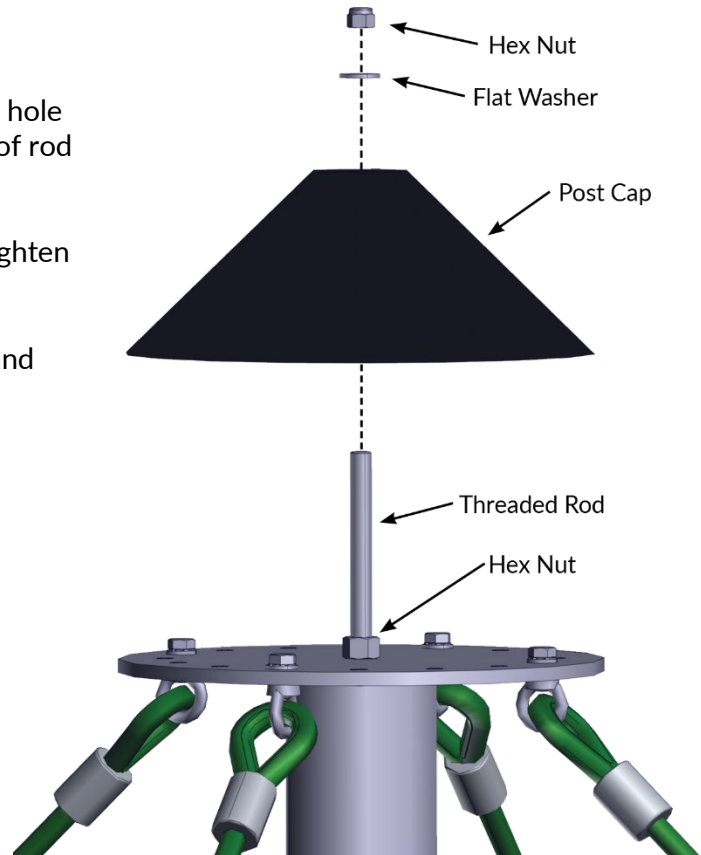
- Tension the net structure evenly by tightening the turnbuckles of opposite sides simultaneously (A and A, then B and B – see diagram below). While tensioning, be sure to keep the post straight. Check with a level as you go.
- Tighten jam nuts on turnbuckles after tensioning.



Installing the post cap:

- Screw the threaded rod (O) into the center hole of the connection plate leaving 6.1 inches of rod exposed above the plate.
- Thread the hex nut (M) onto the rod and tighten against the connection plate.
- Fit the post cap (J) onto the threaded rod and secure on top with the flat washer (L) and locknut (K).

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.

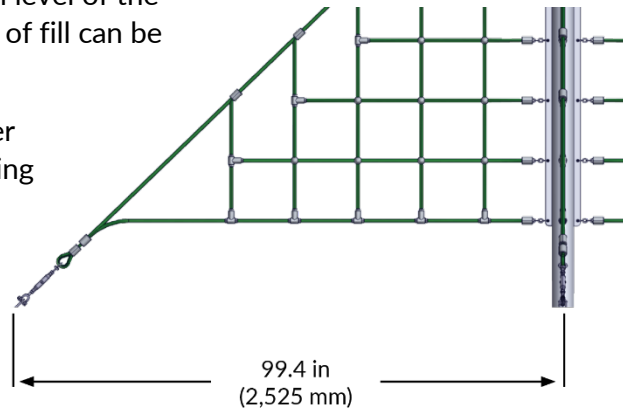


- With the post straight and tensioning complete, fill in the space around the post in the middle foundation pipe with concrete (approximately 1.85 ft³ or 0.06 m³) and allow to set for the concrete manufacturer's recommended time.



Finishing

- Place the two compliance stickers (S) 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.
- With surfacing in place, check the radius from center of the post to the point at which each anchor assembly meets the surfacing. The radius should be approximately 99.4 in (2,525 mm).
- 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.



Final Checklist

Please make sure all following steps have been completed:

- () Checked the net to be correctly tensioned.
- () 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 F1487-17 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 1487-17 or CSA-Z614 guidelines.

Monthly

- 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.

Quarterly

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

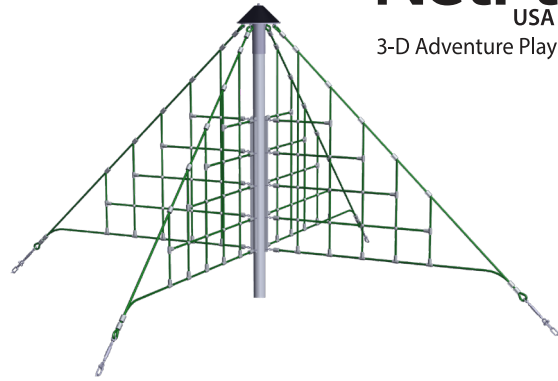
Yearly

- 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.

New Product Handover



Model Name: Mini X-Pyramid
Model Number: 4640-2
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: _____