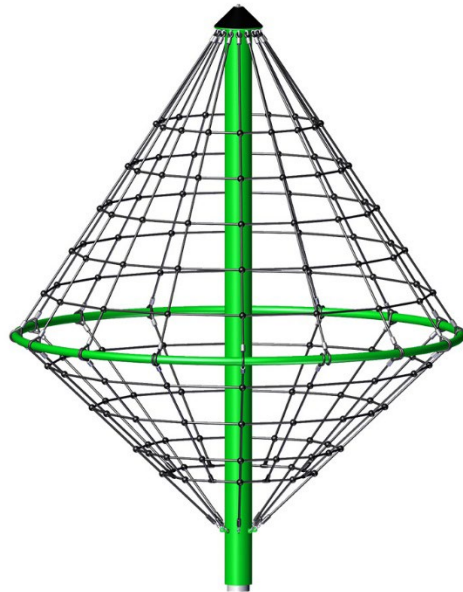


# Installation Instructions



## Climbing Whirl

Model No. 20.01.130

Climbing Whirl 20.01.130

Initial Release - 3/18/2024

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# Contents

Introduction.....	2
General Information.....	2
Drawings/Views.....	2
Measurement Tolerances .....	2
Specifications .....	3
Parts List .....	4
Included Parts.....	4
Customer-Supplied Parts .....	5
Installation .....	6-12
Part A: Site Prep and Use Zone .....	6
Part B: Foundation .....	7
Part C: Structure .....	8-13
Finishing .....	13
Critical Dimensions .....	14
Final Checklist.....	14
Maintenance.....	15-16
Maintenance Log.....	17
Handover Document.....	18



**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 Climbing Whirl! 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 to comply 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..... 2 hours  
(after completion of foundations)

Personnel Required ..... 2-3

## Equipment

Height..... 165.5 in (4200 mm)  
Footprint..... Ø 137.8 in  
(Ø 3500 mm)  
Use Zone..... Ø 354 in (Ø 8991 mm)  
Ø 282 in (Ø 7163 mm) No Overlap  
Fall Height ..... 133 in (3380 mm)  
Age Group ..... 5 to 12 years  
Capacity ..... 20  
Largest Component: Post..... 155.5 in x Ø 7.6 in  
(3950 mm x Ø 193 mm)  
Heaviest Component: Post ..... 298 lb (135 kg)

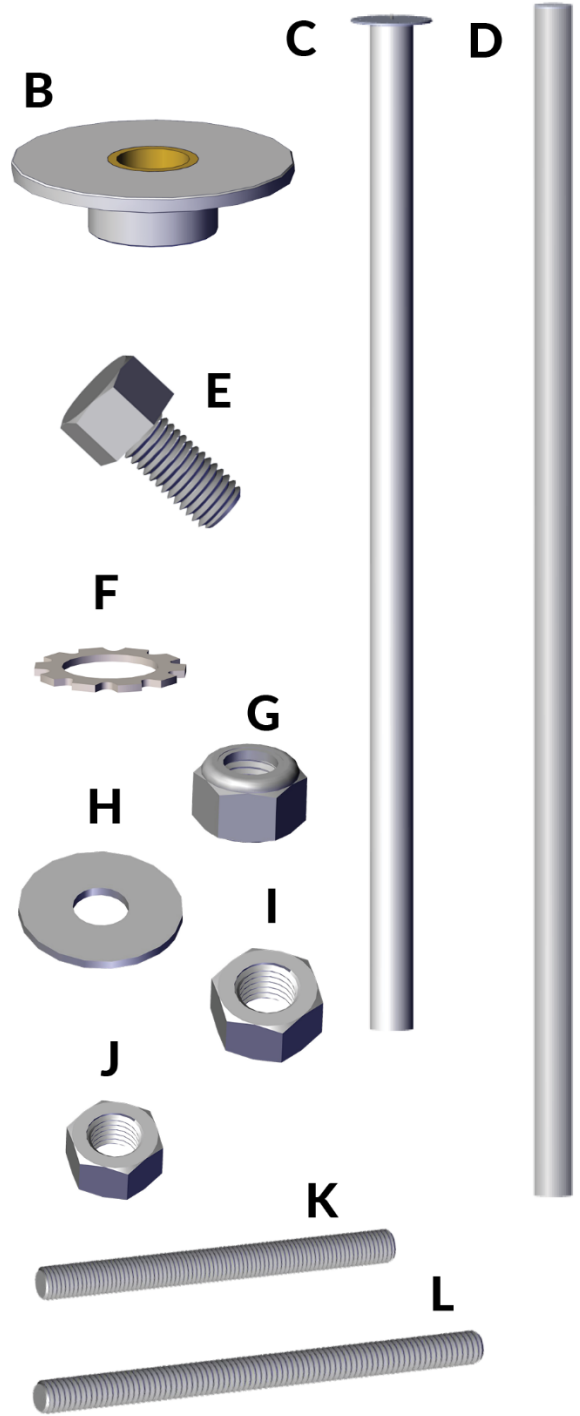
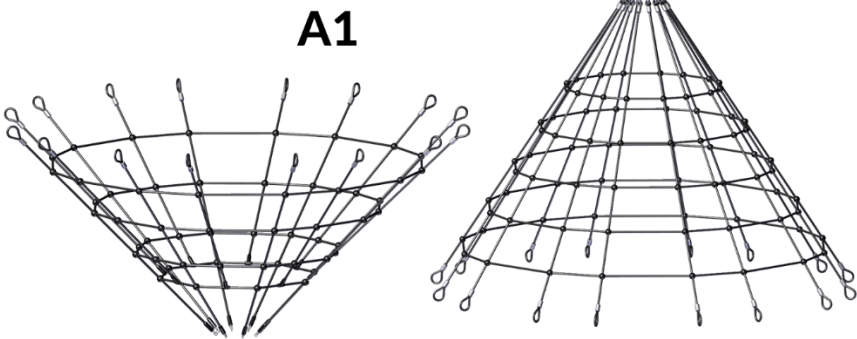
## Foundation

Concrete Mix ..... C25/C30  
Required Concrete:..... 47.8 ft<sup>3</sup> (1.35 m<sup>3</sup>) foundation  
0.3 ft<sup>3</sup> (0.01 m<sup>3</sup>) pipe fill  
Foundation Dimensions..... 51.2 x 51.2 x 31.5 inches  
(1300 x 1300 x 800 mm)  
Drainage Stone..... 6.0 ft<sup>3</sup> (0.17 m<sup>3</sup>)  
(4 inches of stone required beneath the foundation)

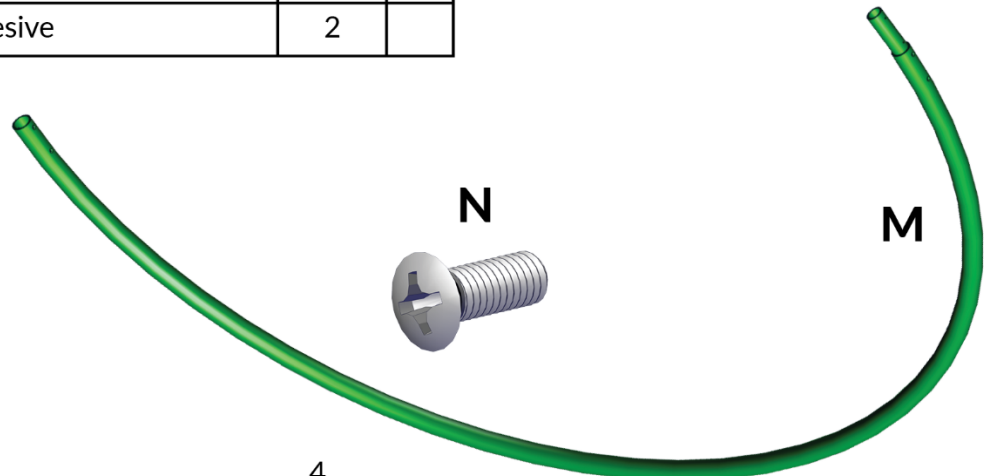


In the case of sandy and soft soils, the size of the foundation must be enlarged by 50%.

**Parts List  
Included**



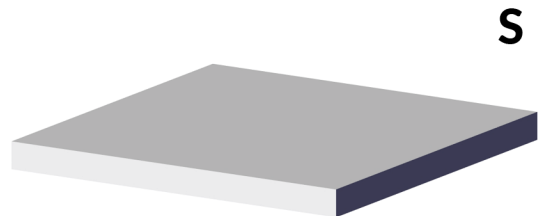
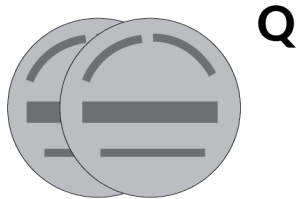
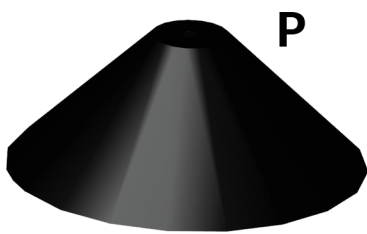
Part	Description	Qty	
		Ship	Rec
A1	Bottom Net Assembly	1	
A2	Top Net Assembly	1	
B	Bearing Plate	1	
C	Outer Post	1	
D	Inner Post	1	
E	M12 Bolt	16	
F	M12 Toothed Washer	16	
G	M16 Locknut	1	
H	M16 Flat Washer	1	
I	M16 Hex Nut	1	
J	M12 Hex Nut	2	
K	M16 Threaded Rod	1	
L	M12 Threaded Rod	1	
M	Ring Section	2	
N	Machine Screw	8	
O	Thread Locking Adhesive	2	



# Parts List

## Continued

Part	Description	Qty	
		Ship	Rec
P	Post Cap	1	
Q	Compliance Stickers	2	
R	Foundation Pipe* <i>(not included - 1 required)</i> ø 8 in x 25.62 in (ø 200 mm x 650 mm)	-	
S	Concrete Slab <i>(not included - 1 required)</i> About 16 x 16 in (400 x 400 mm)	-	



**\*Notes on Foundation Pipe (R):** 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.

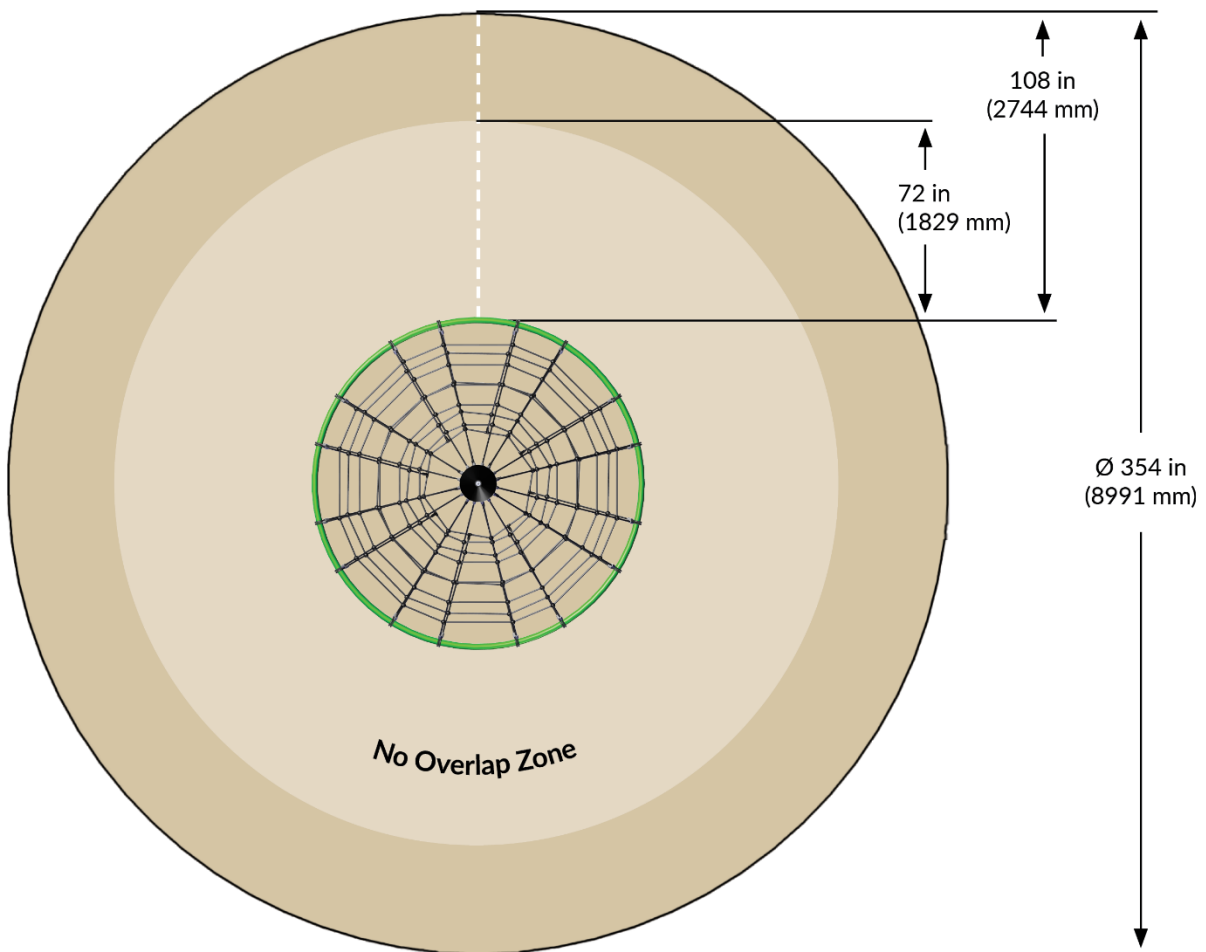
The pipe can be made of any non-deteriorating material with enough integrity to hold back the concrete when poured around it. The pipe diameter specified is the minimum. If using a larger diameter pipe, the ratio of foundation concrete to pipe fill listed in the specifications will be different. Pipe length should 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.

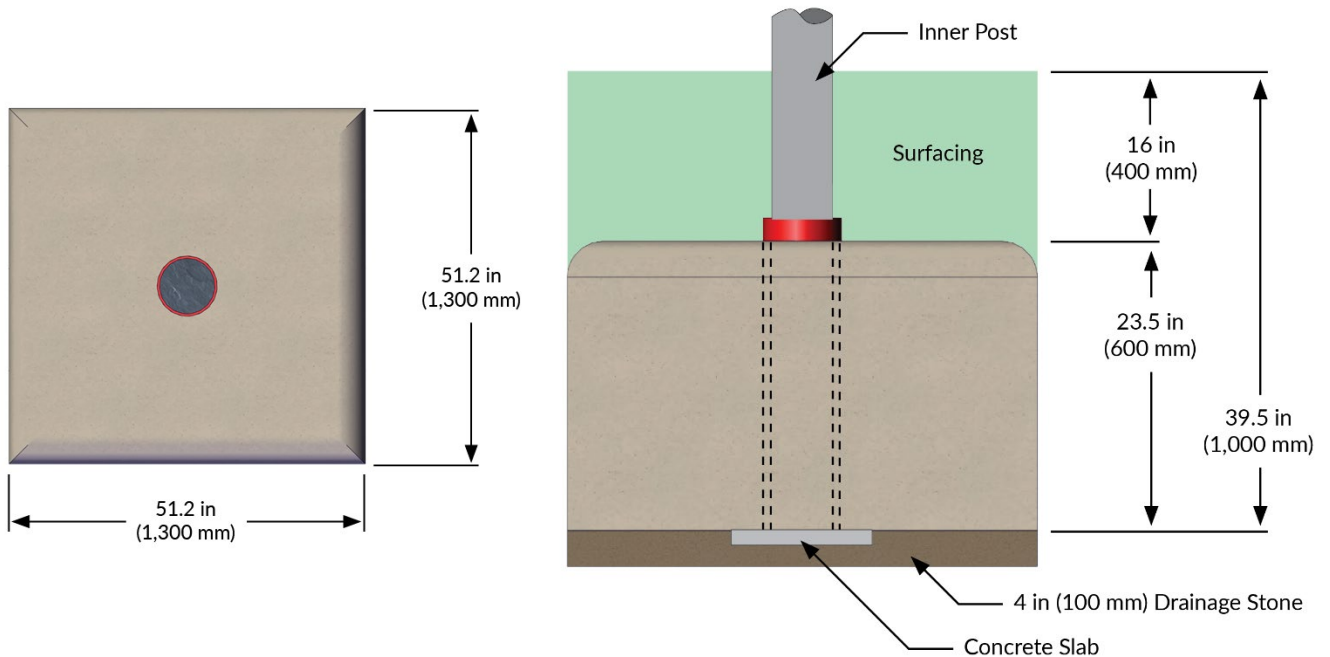
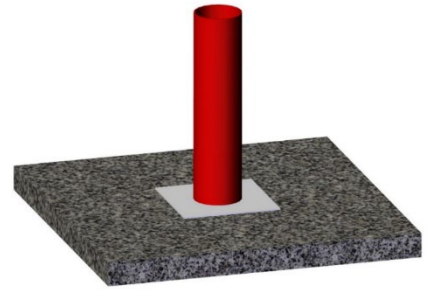
Per ASTM, a clear path and adequate protective surfacing are required 108 inches (2744 mm) from the outer edge of the structure as shown below. The use zone 72 inches (1829 mm) out from the perimeter of the Climbing Whirl may not overlap any other use zone.



# Installation

## Part B: Foundation

- A concrete foundation is required for the Climbing Whirl.
- Dig a foundation hole 51.2 x 51.2 inches wide and 43.5 inches deep, measured from the top of the intended surfacing level.
- Add 4 inches of drainage stone to the bottom of the foundation hole.
- In the center of the foundation hole, nestle the concrete slab (S) 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 foundation pipe (R) on-end onto the concrete slab as shown. Check that the slab is level and the pipe is perfectly straight.
- Measure 23.5 inches (600 mm) above the top of the drainage stone and slab. Mark this point on the inside wall of the foundation. Pour concrete into the foundation hole, around the pipe, until the concrete level reaches the 23.5 inch mark.
- Round the top edges of the foundation to a 4 inch radius and allow to set for the concrete manufacturer's recommended time.



The required surfacing depth of 16 inches (400 mm) is critical to meet the manufacturer's specifications for safe use and compliance.





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

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:**

- M16 Hex Nut and Threaded Rod
- Eye Nuts and M12 Bolts

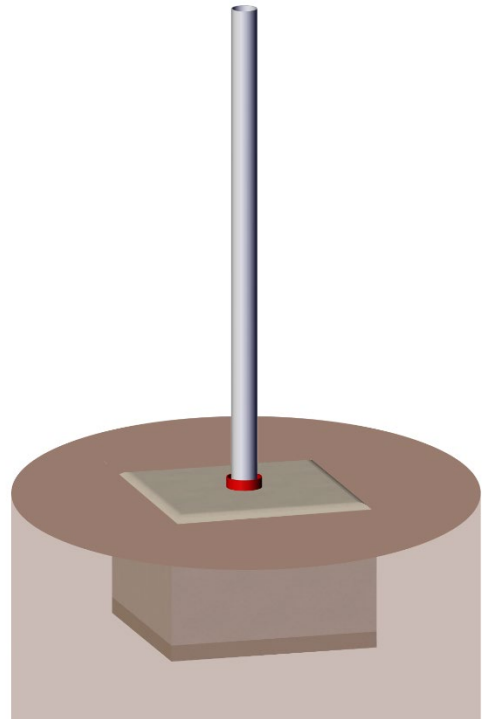
# Installation

## Part C: Structure

- Slide the M12 threaded rod (L) through the holes at the base of the inner post (D) and secure on each end with M12 hex nuts (J) tightened against the post as shown below. Be sure the rod is centered in the post.
- Insert the base of the inner post into the foundation pipe so the end of the post is flat on the slab. Use a level to ensure that the pipe is straight.



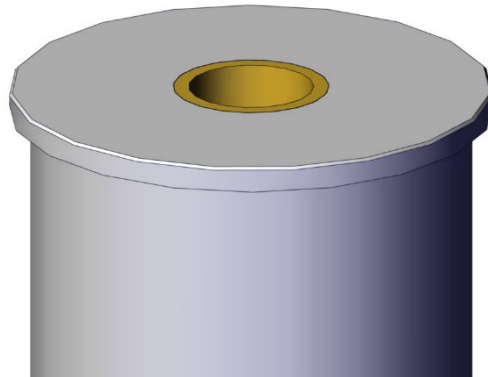
*Note: Your post may have two sets of holes. Please install the one threaded rod into one of either sets of holes.*



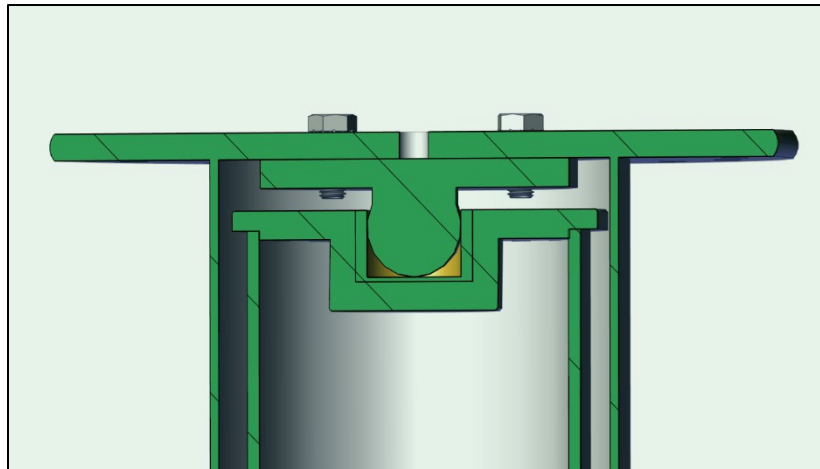
- Pour concrete into the foundation pipe, ensuring the post is straight, and allow to dry for the manufacturer's recommended amount of time.



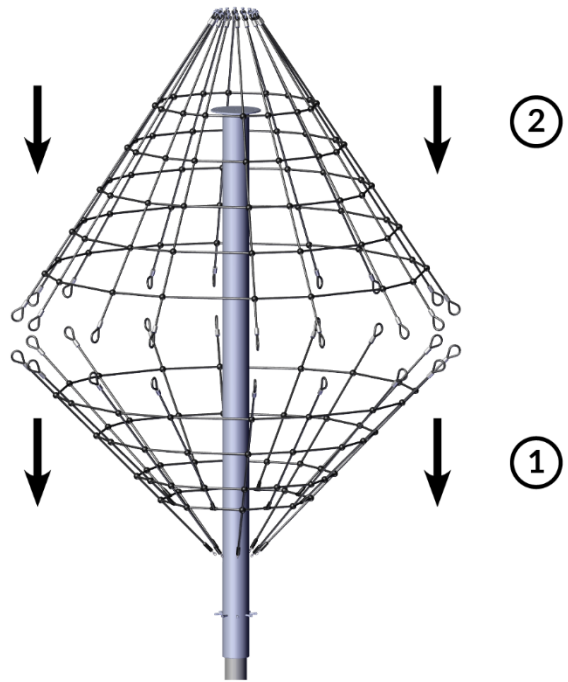
- Once the concrete has completely set, seat the bearing plate (B) on top of the post.



- Slide the outer post (C) down over the inner post, like a sleeve, until the ball inside the top plate is seated into the bearing plate (you won't be able to see the bearing, but when seated properly the outer post will rotate). The outer post fits over the bottom friction sleeve of the inner post.

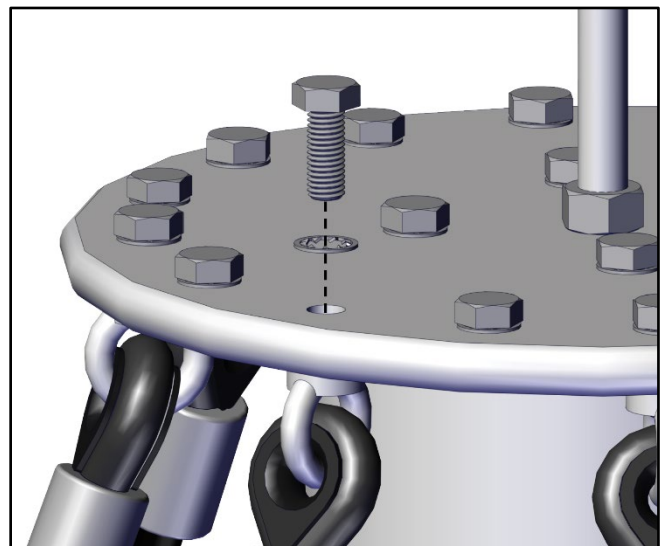


- Slide the bottom net assembly (A1) over the post with the loop ends up.
- Slide the top net assembly (A2) over the post with the loop ends down.

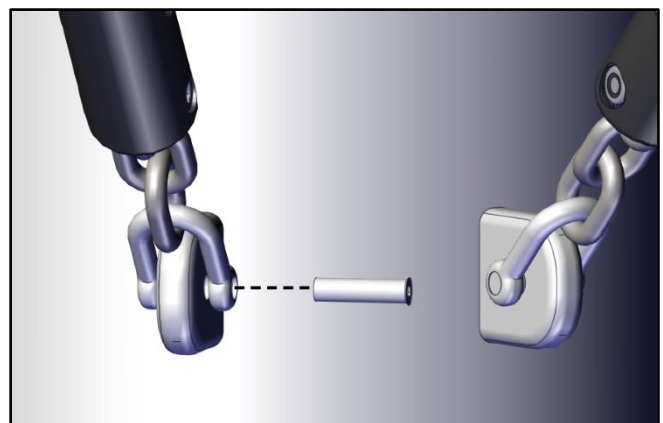


- Connect each top assembly support rope to the top plate. Use the 16 M12 bolts (E) and 16 toothed lock washers (F) to attach the eye nuts at the end of each rope to the underside of the top plate.

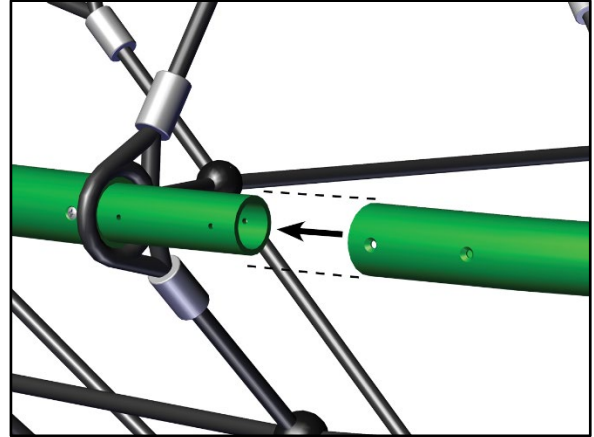
Note: Every peripheral hole in the top plate will be used to connect all support ropes.



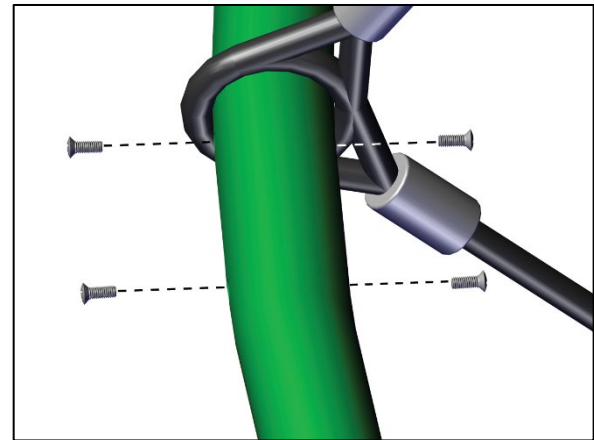
- Connect each bottom net assembly rope with shackle to the post connections as shown.



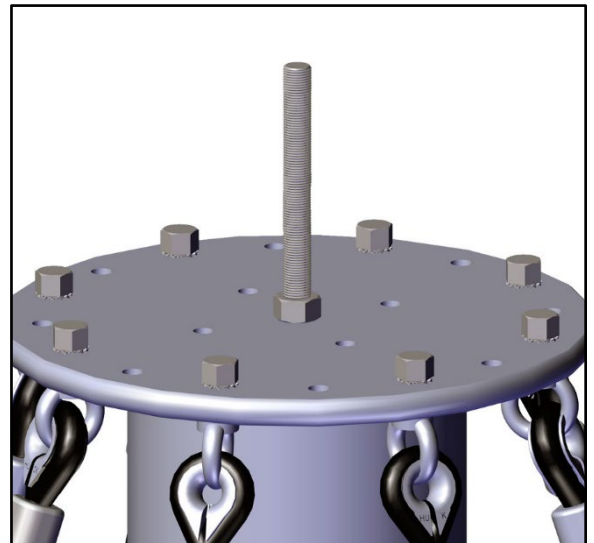
- Slide each of the two halves of the ring (M) through the loops of the top and bottom structure assemblies where they meet. The loops of corresponding ropes from the top and bottom should rest next to each other on the ring.
- Slide the rings together joining them at each connection with the pre-installed connecting sleeve. Slide the ring sections together until the screw holes in the ring and connecting sleeve align.



- Install four machine screws (N) on each connection of the assembled ring where the two halves join.



- Thread the M16 threaded rod (K) into the center hole of the top plate about one inch. Thread on the hex nut (l) and tighten against the top plate to secure the rod.



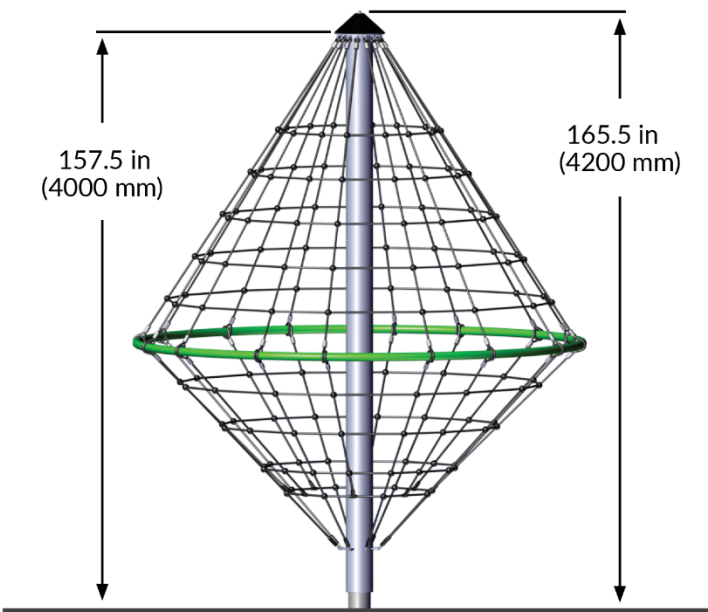
- Place the post cap (P) over the top plate as shown, and secure with the washer (H) and lock nut (G). If the threaded rod protrudes from the tightened lock nut, or if there is not enough thread, remove the post cap and adjust the height of the rod.



## Finishing

- Add and grade 16 in (400 mm) of fill and surfacing per ASTM F1292 to the use zone. With surfacing, the final height of the Climbing Whirl should be about 165.5 inches (4200 mm).
- If using loose fill surfacing material, mark the post at the final level of the surfacing so that the proper level can be maintained.
- Place the compliance stickers on the carousel outer post in an accessible location.
- Clean up the area and remove all tools, extra materials, or other assembly aids before opening the equipment for use.

## Critical Dimensions



## Final Checklist

- The Climbing Whirl was installed according to the instructions without modification, except if instructed by the equipment supplier.
- Check foundation stability.
- Proper surfacing has been added and fall heights checked.
- Compliance stickers have been adhered to the post and are visible.
- Recheck installation and all measurements for ASTM F1487 or CSA-Z614 conformity.

# 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.

## Product Support & Replacement Parts

Technical support and 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.

## Inspection Frequency

We strongly advise you to carry out inspections and maintenance work within the specified periods as use of the equipment, the weather, and malicious vandalism cause wear and tear that compromises the safety and function of the equipment.

With average use and environmental conditions, check the following at or before the recommended frequency. If the equipment is exposed to 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.

### Monthly

- Check all connections 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.
- Check surfacing for adequate depth and fill in as necessary.
- Check the ground surface of fall protection for hard objects.
- Check that moving metal parts (bearing, post assembly) move smoothly and are not worn. Do not lubricate the bearing.



### Quarterly

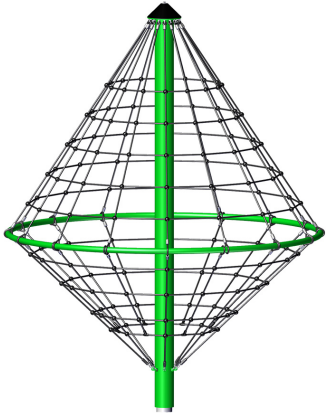
- Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.
- Check the stability of the foundation and post.
- Tighten all forms of attachment.

### Yearly

- Check for corrosion on metal components. Apply zinc paint to any corroded or scratched areas.



# New Product Handover



<p><b>Model Name:</b> Climbing Whirl</p> <p><b>Model Number:</b> 20.01.130</p> <p><b>Serial Number:</b> _____</p>
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## 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.

<p>Operator received the complete assembly instructions, inspection &amp; maintenance instructions, and maintenance log. Installer completed work to the manufacturer's specifications.</p>	
Operator Signature: _____	Date: _____
Installer Signature: _____	Date: _____