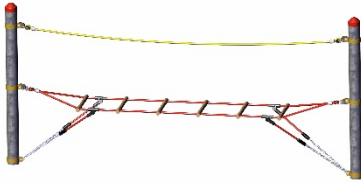
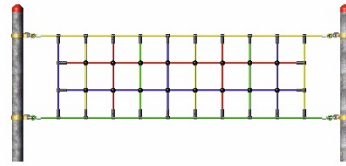


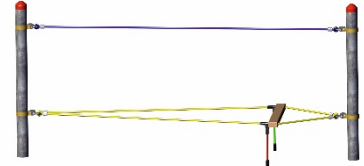
Installation Instructions



Rope Ladder
Model No. 4591-2 R



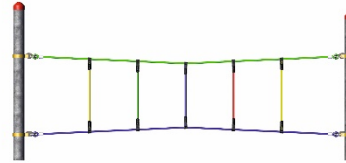
Climbing Net
Model No. 4591-3 R



Balancing Line
Model No. 4591-4 R



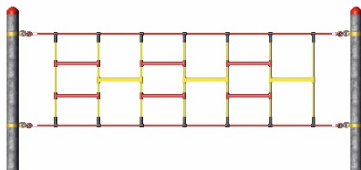
Rubber Hammock
Model No. 4591-5 R



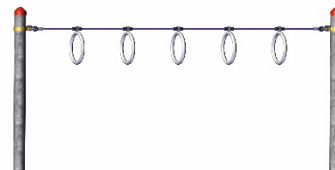
Slackline
Model No. 4591-7 R



Wobble Beam
Model No. 4591-9 R



Climbing Rungs
Model No. 4591-12 R



Holding Rings
Model No. 4591-13 R



Clambering Loops
Model No. 4591-14 R

Haiger Adventure Course

Model No. 4591
with Steel Posts

Revision History

Initial Release: 4/27/2021

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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 Haiger Adventure Course! 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..... 7.5 hours (entire system)
(after posts and concrete are set)

Personnel Required 2

Equipment

Height..... 55.25 in (1,400 mm)

Footprint..... Variable – See element specifications

Use Zone..... Variable – See element specifications

Fall Height 47.25 in (1,200 mm) max

Age Group 5 to 12 years

Capacity 5 per element

Foundation

Concrete Mix C25/C30

Required Concrete:..... 3.14 yd³ (2.40 m³) all foundations

Foundation Dimensions..... 23.62 x 23.62 x 23.62 inches
(600 x 600 x 600 mm)

Required (provided by customer):

Drainage Stone..... 6.1 ft³ (0.18 m³)
(4 inches of stone required beneath the foundation)

Concrete Slab..... approx. 12 x 12 inches
(1 for each post) (300 x 300 mm)

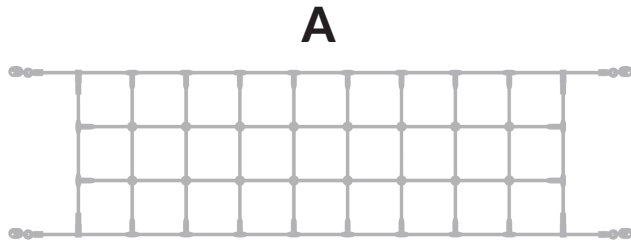


In the case of sandy and soft soils, the size of the foundation must be enlarged by 50%.

Tools Required

- Drill
- Torx Bits
- Adjustable Wrench
- Shovel

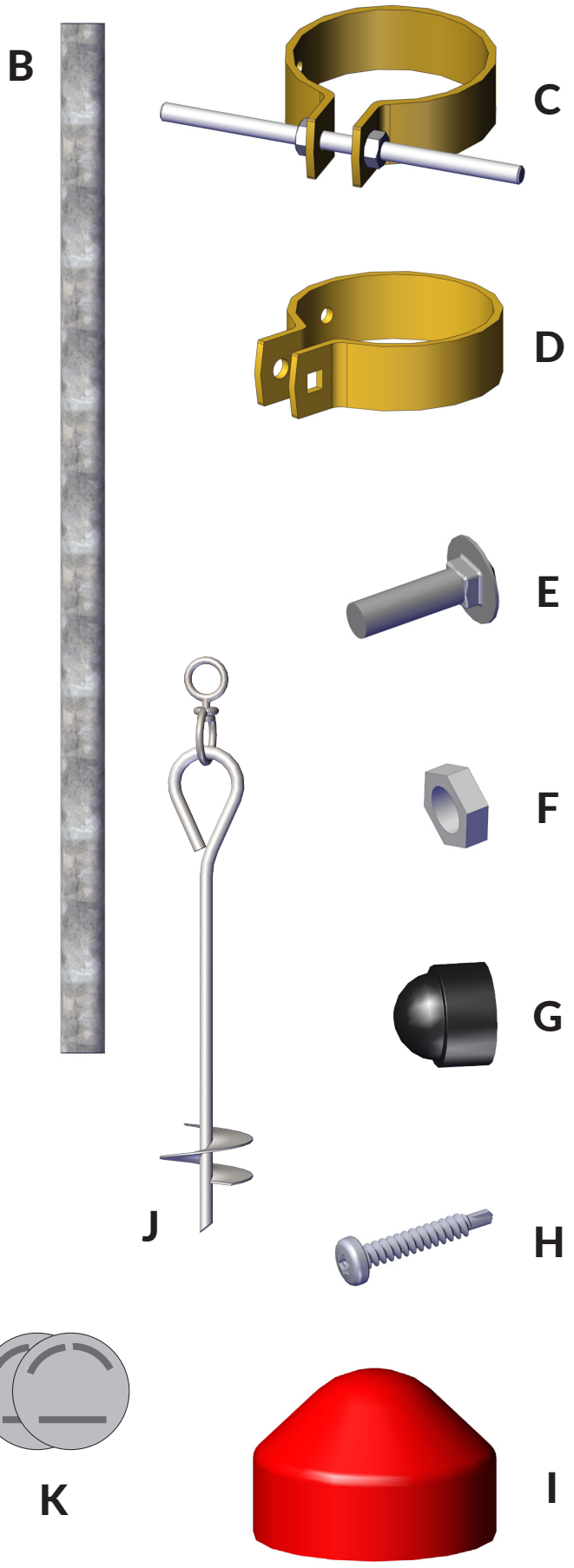
Parts List



Net Elements (A) vary by model and may include one or two assemblies of multiple components. Each assembly is finished with attachment points.

Part	Description
A	Net Element(s)
B	Steel Post
C	Base Clamp
D	Connecting Clamp
E	M10 Carriage Bolt
F	M10 Nut
G	Nut Cap
H	Self-Tapping Screw
I	Post Cap
J	Screw Pile
K	Compliance Stickers

Your course configuration may use some or all of these components. Please see the following page for specific hardware quantities.



Hardware Quantities

Below are the included quantities of the hardware specific to each element. The Net Element (A) may consist of one or two assemblies of multiple components. The number of post components (B, C, H, and I) will depend on your total course configuration.

4591-02 R Rope Ladder

Part	Ship	Rec
D	6	
E	6	
F	6	
G	6	
K	2	

4591-03 R Climbing Net

Part	Ship	Rec
D	4	
E	4	
F	4	
G	4	
K	2	

4591-04 R Balancing Line

Part	Ship	Rec
D	4	
E	4	
F	4	
G	4	
J	2	
K	2	

4591-05 R Rubber Hammock

Part	Ship	Rec
D	4	
E	4	
F	4	
G	4	
K	2	

4591-07 R Slackline

Part	Ship	Rec
D	4	
E	4	
F	4	
G	4	
K	2	

4591-09 R Wobble Beam

Part	Ship	Rec
D	4	
E	4	
F	4	
G	4	
K	2	

4591-12 R Climbing Rungs

Part	Ship	Rec
D	4	
E	4	
F	4	
G	4	
K	2	

4591-13 R Holding Rings

Part	Ship	Rec
D	2	
E	2	
F	2	
G	2	
K	2	

4591-14 R Clambering Loops


Part	Ship	Rec
D	2	
E	2	
F	2	
G	2	
K	2	

Installation

Part A: Site Prep and Use Zone

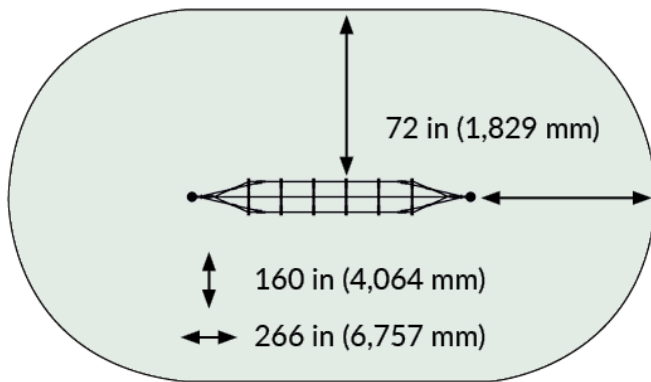
Be sure that the chosen site is well drained and level, with a 3% maximum slope.

A clear path and adequate protective surfacing are required at least 72 inches (1,829 mm) from the outer edge of each element as shown below.

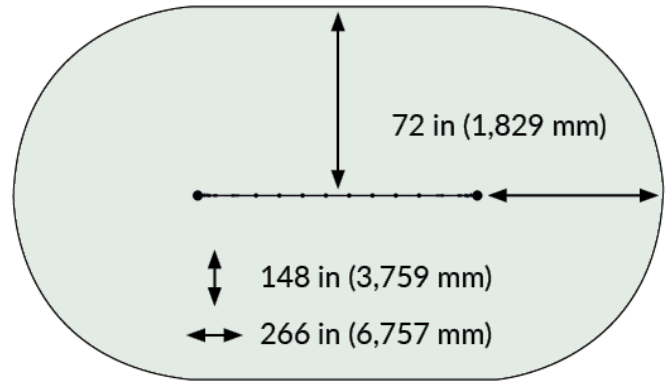


The use zone will change depending on your selected elements and chosen configuration. This equipment must be installed to comply with ASTM F1487 or CSA-Z614.

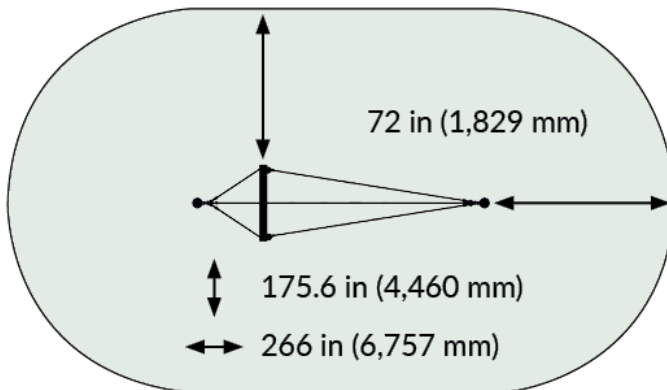
Horizontal Ladder
Model No. 4591-2



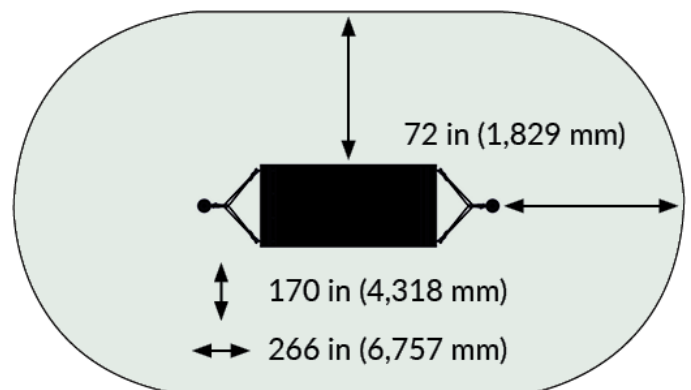
Climbing Net
Model No. 4591-3



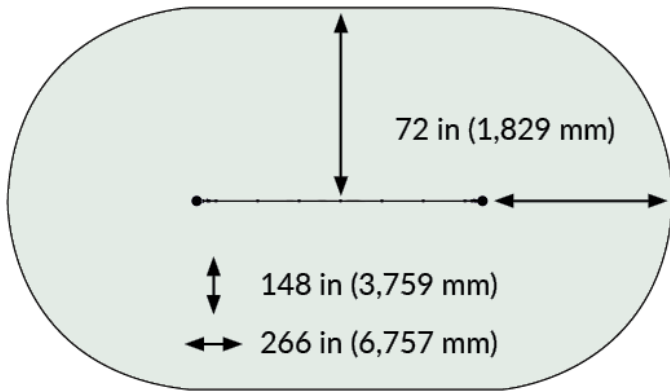
Balancing Line
Model No. 4591-4



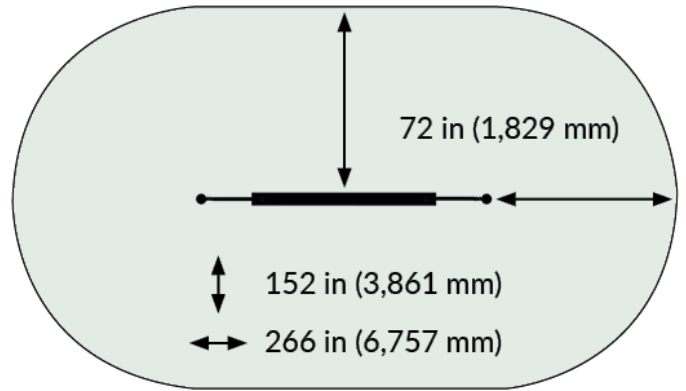
Hammock
Model No. 4591-5



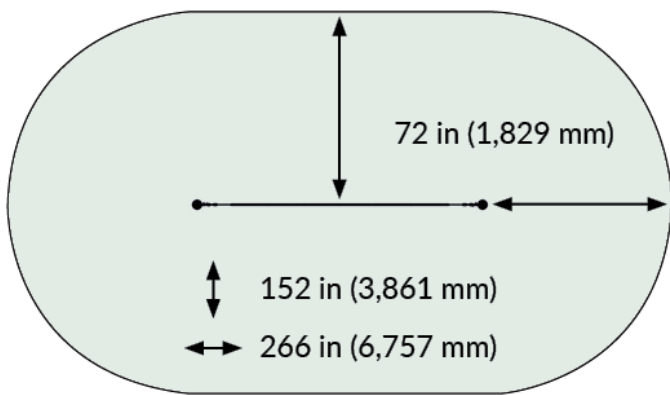
Slackline Net
Model No. 4591-7



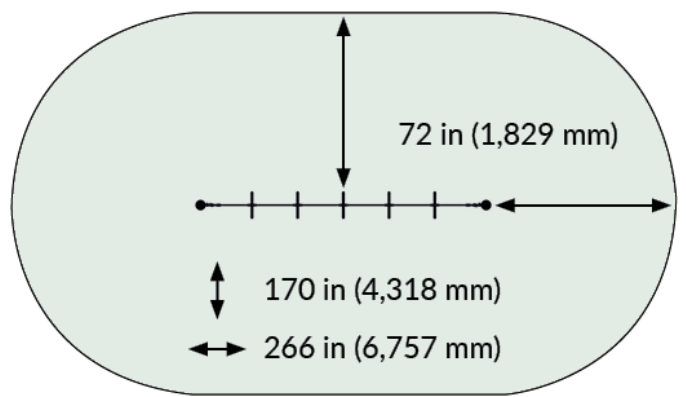
Wobble Beam
Model No. 4591-9



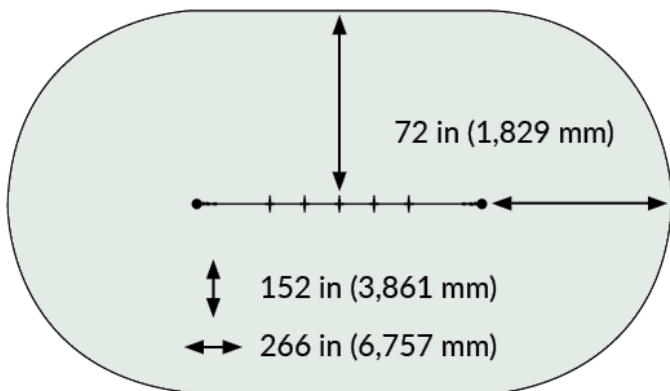
Climbing Rungs
Model No. 4591-12



Holding Rings
Model No. 4591-13



Clambering Loops
Model No. 4591-14



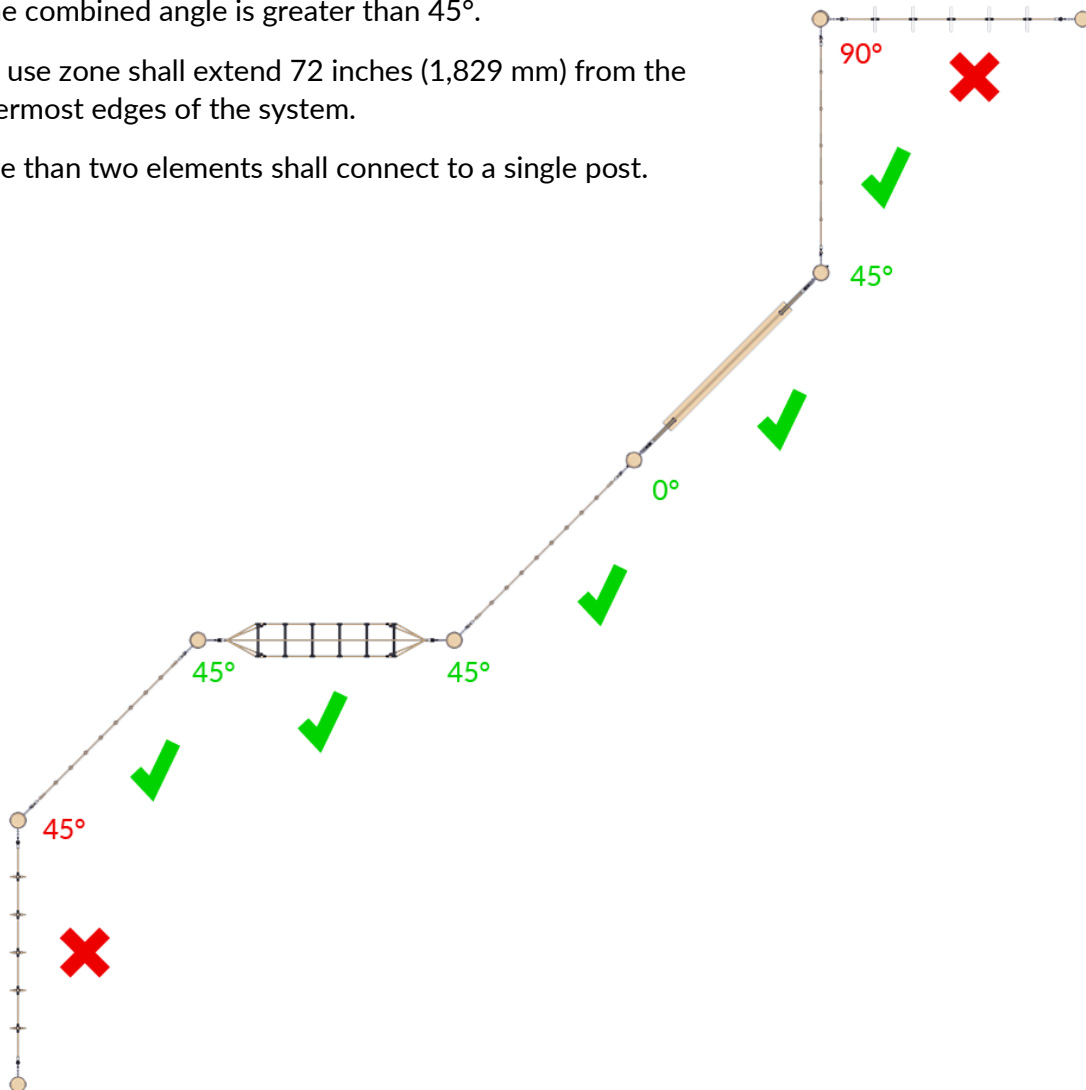
Arranging Multiple Elements

When connecting multiple elements to form one composite system, it is vitally important to use best judgement in determining a safe configuration per ASTM F1487 or CSA-Z614 standards. Be mindful of circulation around the Haiger course and its proximity to other play equipment or obstructions.

Below are manufacturer-recommended best practices when configuring your Haiger Adventure Course. In most cases, following these guidelines will help reduce the risk of injury and foster a fun and exciting play experience. There may be additional considerations or exceptions to these recommendations unique to your site or plan, which is why it is also important to check your design against ASTM F1487 or CSA-Z614 before proceeding with installation.

- Angles shall not exceed 45°.
- Do not repeat two angles of the same direction consecutively if the combined angle is greater than 45°.
- The use zone shall extend 72 inches (1,829 mm) from the outermost edges of the system.

No more than two elements shall connect to a single post.



Installation

Part B: Foundation and Posts

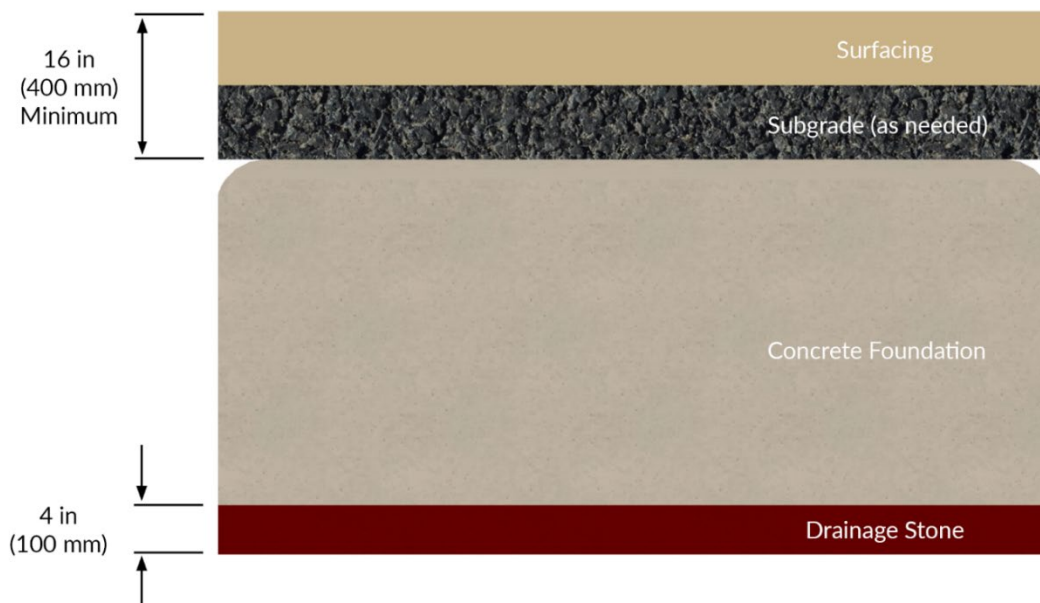
- A minimum of two concrete post foundations are required for the Colchester System, depending on the number of elements chosen. The finished foundations and posts must be 118.11 in (3,000 mm) apart on center per element. Each post may be shared by no more than one other connecting element.
- Dig all foundation holes to the following dimensions. Account for a required 16 inches (400 mm) of material (subgrade + surfacing) over the foundations and 4 inches (100 mm) for drainage stone under the concrete.

Foundations: 23.62 x 23.62 x 23.62 in (600 x 600 x 600 mm)
Overall depth with surfacing and drainage stone: 43.62 inches (1,100 mm)



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

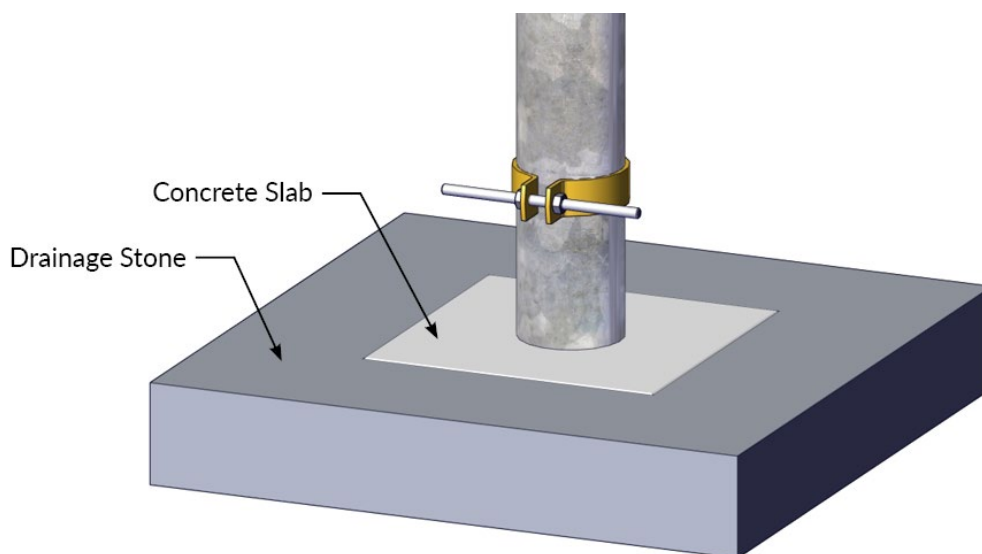
Please refer to ASTM F1292, ASTM F1951, ADA, and ABA standards when choosing the type and thickness of surfacing material.

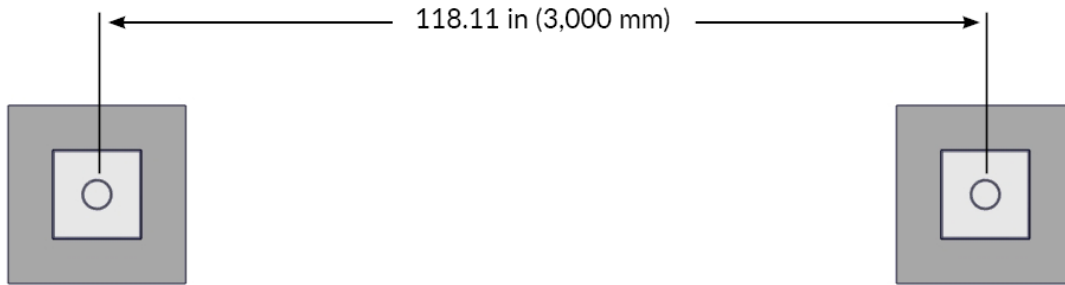


- Place 4 inches (100 mm) of drainage stone evenly on the bottom of each foundation hole.
- Place the concrete slabs flat down onto the drainage stone in each foundation hole and nestle them into the drainage stone so that the top of the slab is flush with the top of the stone. Between each foundation of connecting elements, adjust the slabs until they are 118.11 in (3,000 mm) apart on center.
- Slide a base clamp about 12 in (300 mm) onto one end of each post, as shown below, and tighten. The base clamp prevents the post from loosening in the concrete over time.



- With the clamp end down, stand each post on-end on the center of the flat concrete slab in each foundation.
- Using a level, check that each post is straight. If needed, adjust the concrete slab on the stone, until the post sits straight.





- Using a tape measure, check that the dimension between the center of each connecting post is exactly 118.11 in (3,000 mm). Shift the post on the concrete slab until the correct measurement is achieved between all connecting posts.



The 118.11 in (3,000 mm) dimension between posts is critical for the fit of every element. If the dimension is off, the element may not install properly.



- With measurements checked, and all posts in place, straight and level, pour the concrete foundations. Check the post measurements again after pouring each foundation and ensure that they will not move while the concrete is setting.
- Round the top edges of the foundations to a 4 in (100 mm) radius.
- Allow to set for the concrete manufacturer's recommended time before proceeding to the next step.



Installation

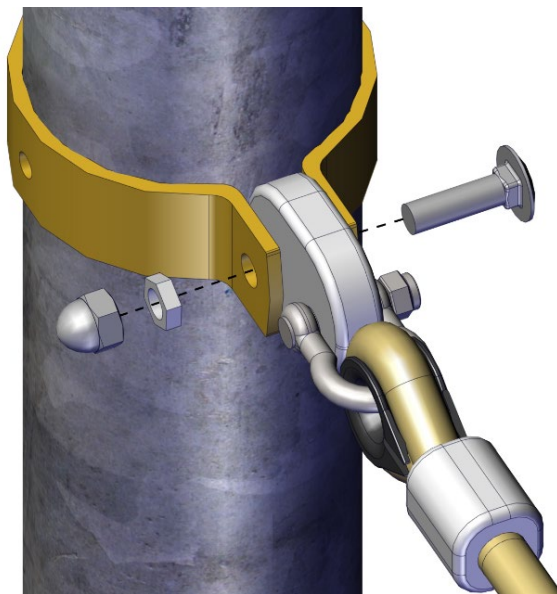
Part C: Installing Elements

- For the respective elements, slide the required number of connecting clamps onto each post. Use M10 screws and M10 nuts to snug the clamps to the post at their approximate installed heights. Do not tighten. For the connection heights of the elements you will be installing, please check the dimensions in the next section.

Note: If two connecting elements have the same connection height, stagger the clamps next to each other so that the measured height is where the two clamps meet. Be sure that each element's attachments connect at the same height on both posts.

- To connect the element, start with one end and the upper-most connection point if more than one. Remove the nut and screw from the corresponding connecting clamp and insert the aluminum connector between the flat blades of the clamp.
- Line up the holes in the clamp with the holes in the connector and reinsert the M10 screw. Be sure to insert the screw on the side of the clamp with the square hole. Rethread the M10 nut onto the screw.
- Slide the clamp to the final installed height per the dimensions in the next section and tighten to the post.
- Push a black nut cap onto the tightened nut.
- Repeat the steps to connect the other end of the element to its second corresponding post.

Note: When making the second connection, the ropes should tension so that the connector and clamp just meet. If it is impossible to join the second connector to the connecting clamp, check that the measurement between the center of the posts is exactly 118.11 in (3,000 mm).



Screw Pile installation for:

Balancing Line – Model #4591-4

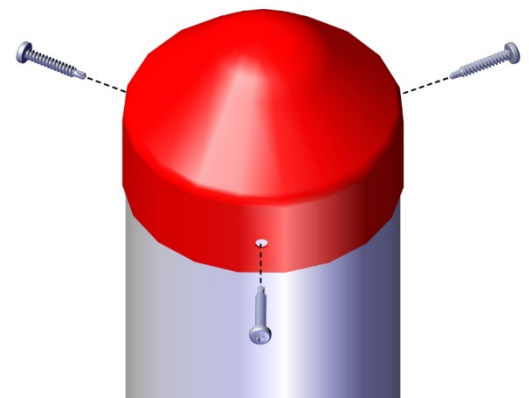
For the Balancing Line element only, installation of two screw piles (J) as ground anchors are required. Located near each end of the wood bar, two vertical ropes are terminated with chain to attach to each anchor.

The location of each anchor must be directly below each vertical rope so that when taught, the vertical ropes will be 90° to the horizontal ropes.

- Connect the corresponding chain and drive each screw pile into the ground until the ropes are taught, and the element rests level. Adjust if needed.
- Ensure that the eye of the screw pile is sufficiently covered with surfacing to prevent access or accidental loosening.



- Install a post cap onto each post. Slide the post cap completely onto the top of the post. Use three self-tapping screws to secure the cap evenly onto the post as shown.



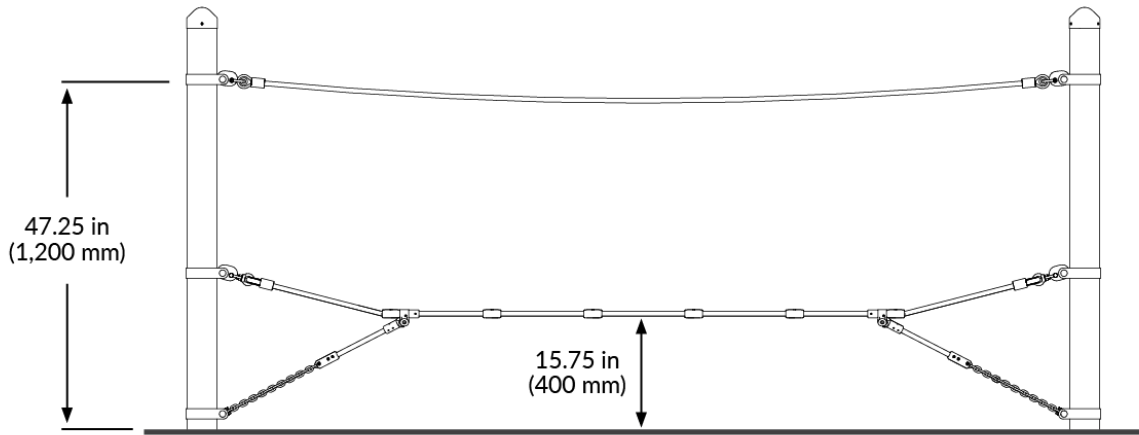
Finishing

- Add and grade 16 in (400 mm) surfacing per ASTM F1292 to the use zone.
- With surfacing, the final height of the posts should be about 55 inches (1,400 mm). Please see the individual element drawings for specific measurements to check on each element after surfacing is installed.
- If using loose fill surfacing material, mark the posts at the final level of the surfacing so that the proper level can be maintained.
- Place a compliance sticker on each post. When more than one connected element is installed, place the stickers on the side of each post that corresponds to the relevant element.
- Clean up the area and remove all tools, extra materials, or other assembly aids before opening the equipment for use.

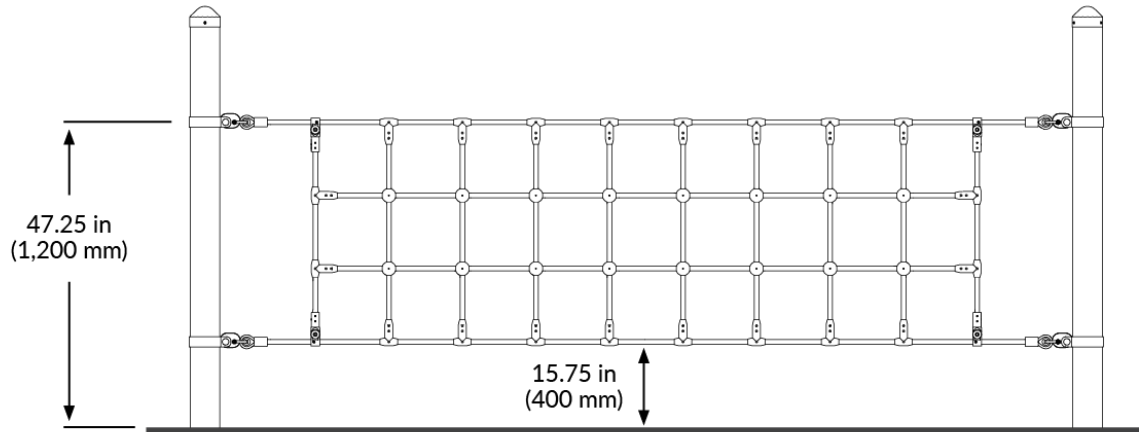
Final Checklist

- The Haiger Adventure Course 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 and are visible.
- Recheck all measurements for ASTM F1487 or CSA-Z614 conformity.

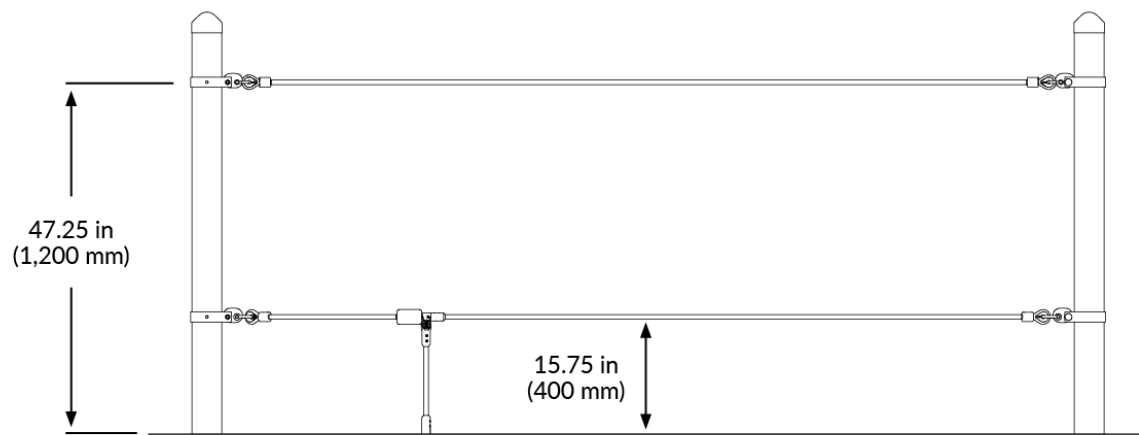
Vertical Dimensions



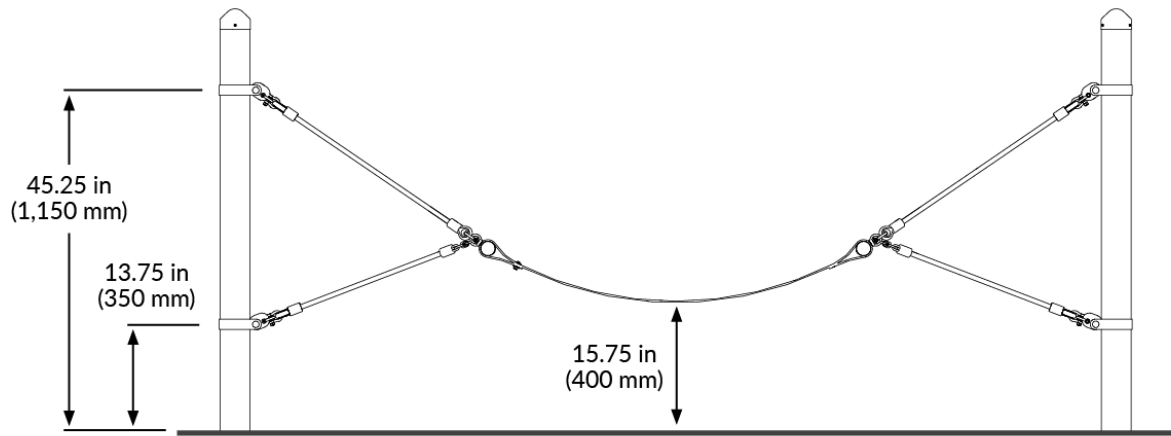
4591-2 Horizontal Ladder



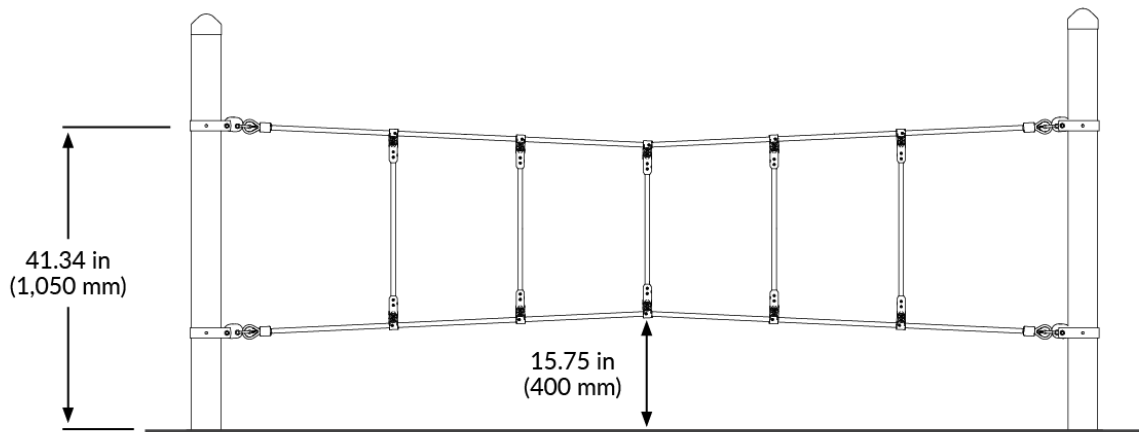
4591-3 Climbing Net



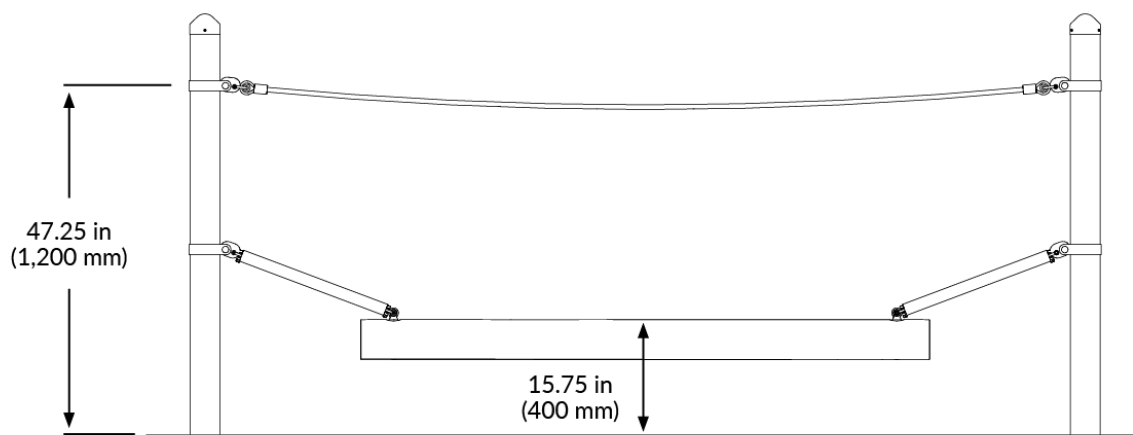
4591-4-R Balancing Line



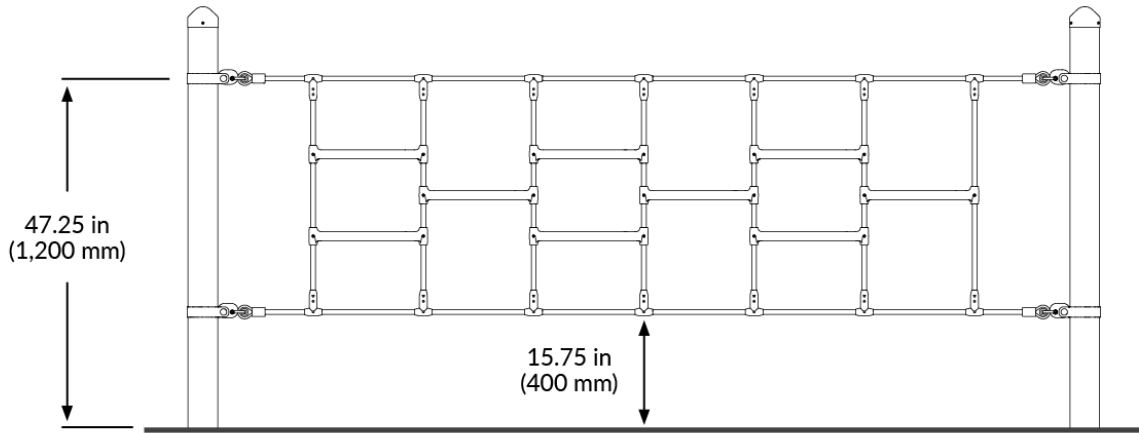
4591-5 Rubber Hammock



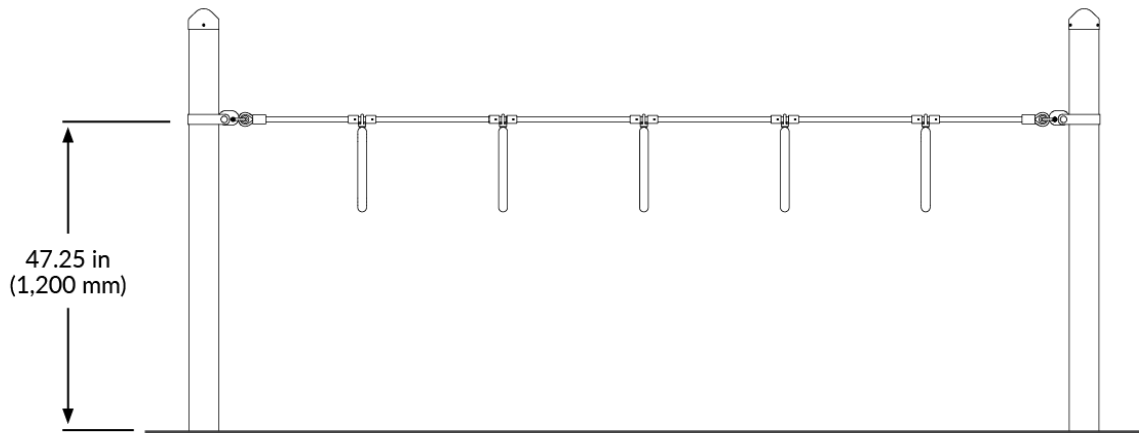
4591-7 Slackline



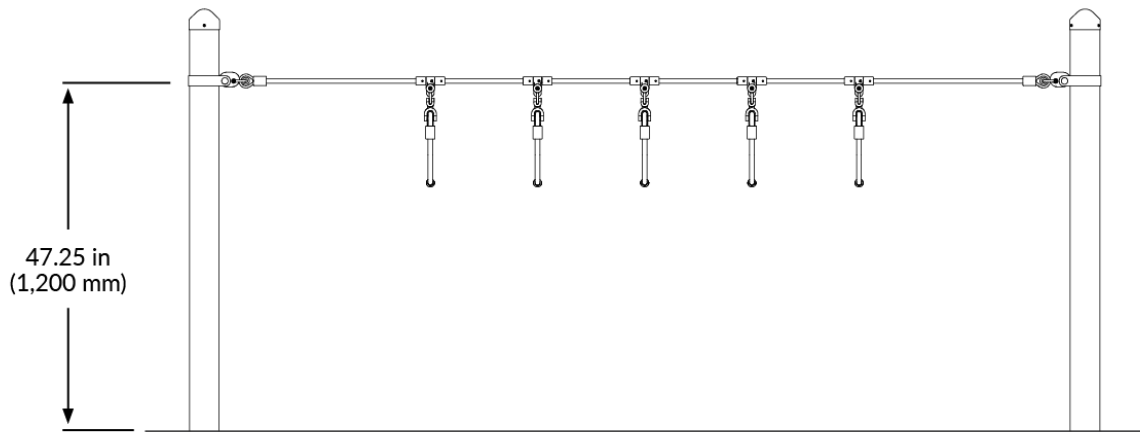
4591-9 Wobble Beam



4591-12 Climbing Rungs



4591-13 Holding Rings



4591-14 Clambering Loops

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.

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 1487-17 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.
- Check surfacing for adequate depth and fill in as necessary.
- Check the ground surface of fall protection for hard objects and loose foundations.
- Check that moving metal parts (joints, springs, etc.) move smoothly and are not worn. Repair or replace if necessary. It is not necessary to lubricate joints as we only use maintenance-free metal roller bearings.

- Check all attachments such as chains, ropes, nets, etc. for damage and repair or replace if necessary.

Quarterly

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

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

If new elements are added to an existing installation, this document must be completed again for the additional elements.



Model Name: Haiger Adventure Course	Model Number: 4591
--	---------------------------

Elements Installed:

- | | | |
|--|--|---|
| <input type="checkbox"/> 4591-2 Rope Ladder | <input type="checkbox"/> 4591-5 Rubber Hammock | <input type="checkbox"/> 4591-12 Climbing Rungs |
| <input type="checkbox"/> 4591-3 Climbing Net | <input type="checkbox"/> 4591-7 Slackline | <input type="checkbox"/> 4591-13 Holding Rings |
| <input type="checkbox"/> 4591-4 Balancing Line | <input type="checkbox"/> 4591-9 Wobble Beam | <input type="checkbox"/> 4591-14 Clambering Loops |

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 foundations poured per instructions.
- Elements 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: _____

Course Elements

Model Number	Element Name	Serial Number	Date Installed
4591-2	Rope Ladder		
4591-3	Climbing Net		
4591-4	Balancing Line		
4591-5	Rubber Hammock		
4591-7	Slackline		
4591-9	Wobble Beam		
4591-12	Climbing Rungs		
4591-13	Holding Rings		
4591-14	Clambering Loops		