

design
make
play

SutcliffePlay

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Pentagon

Installation Instructions

PEN200

PEN200

Unit Installation Instructions

1. Check using the Parts List that none of the components are missing.
2. Plan the final position of the play equipment ensuring there is sufficient space.
3. Sort and identify parts before assembly.
4. Excavate the foundation holes in accordance with the plan. Ensuring Curved post holes are levelled and chocked in at the bottom of the holes.
5. Position 2 x 300mm long spragging irons into the holes provided in each post upright and stand in the foundation holes, following illustrations on pages 12-15. Do not tighten the fixing bolts until all the activities have been assembled.
6. Assemble the activities onto the posts as per the diagrams in this document. Leave fixing bolts loose until all the activities have been assembled. Ground fixed activities need 200mm spragging irons positioned through their holes.
7. Assemble the slide as per the diagrams in this document.
8. When all activities have been assembled, tighten all the fixings, attach nut covers where necessary, ensure the unit is level and the posts are vertical.
9. Fill the foundation holes to the required depth with concrete.
10. Do not allow the equipment to be used until the concrete has set (2 - 3 days) and the required safety surfacing has been installed.
11. Tighten all fixing bolts.
12. Follow the maintenance instructions supplied.

NB:

1. Slide runouts should be inclined downwards by approximately 2 degrees for drainage purposes.
2. During installation care must be taken to prevent hazards to children.
3. Extra care should be taken if conditions are abnormal.

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Unit Parts List

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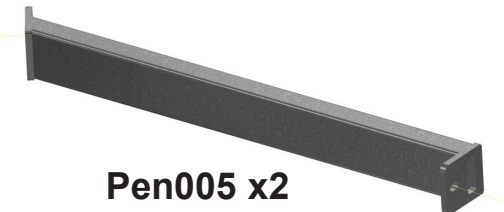
Pen002 x17



Pen003 x1



Pen004 x3



Pen005 x2



**Pen006 x2
(Slide Framework)**



Pen007 x4

PEN200

Unit Parts List

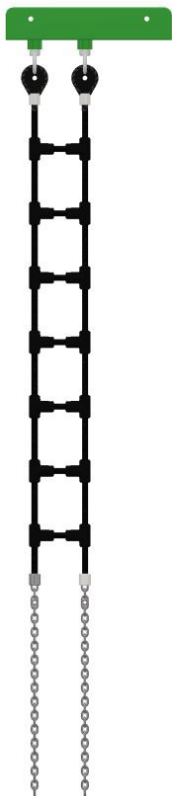
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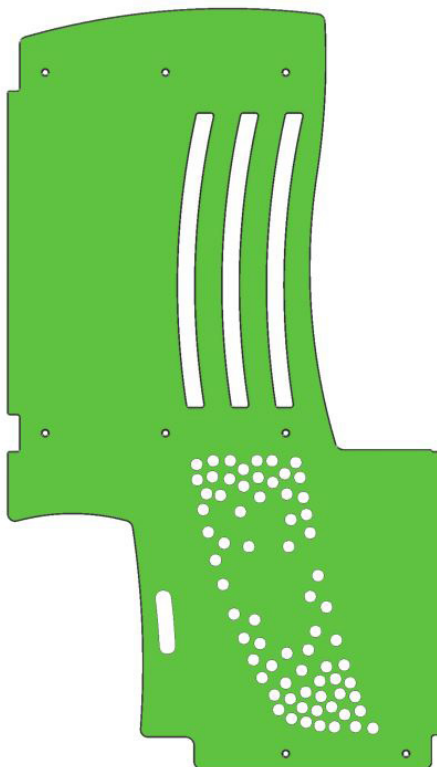
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Pen009 x1



Pen013 x1



Pen014 x1

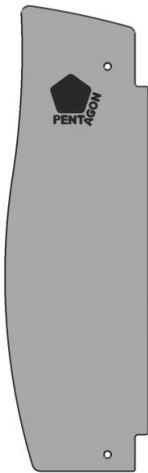


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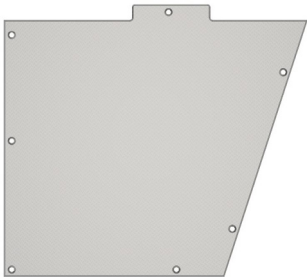
PEN200

Unit Parts List

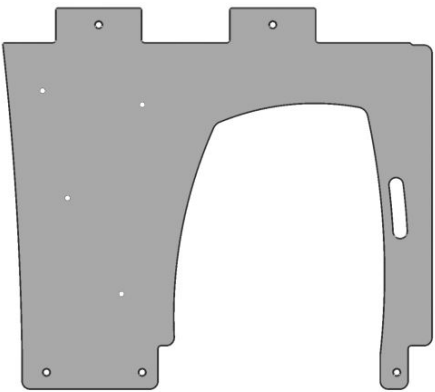
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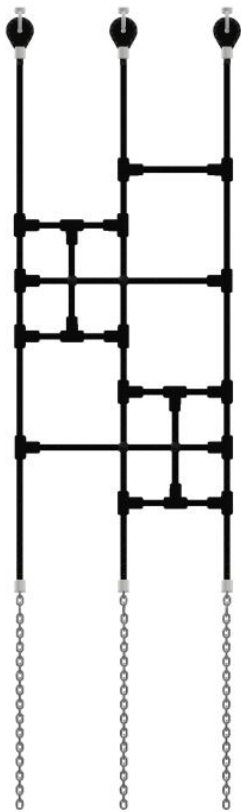
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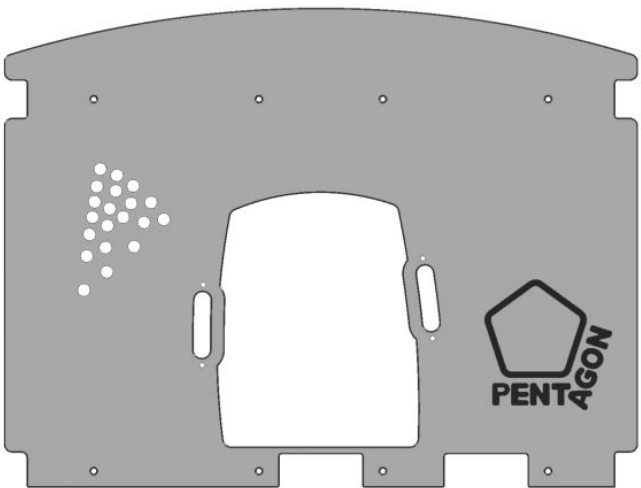
Pen018 x1



Pen019 x1



Pen016 x1



Pen020 x1



Pen021 x2

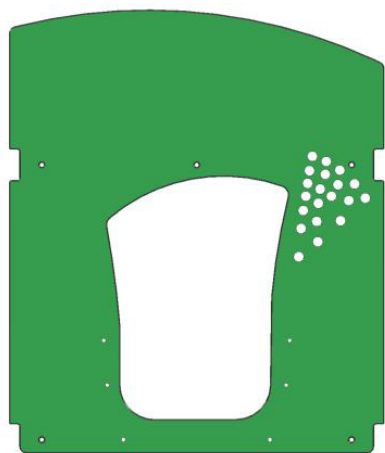


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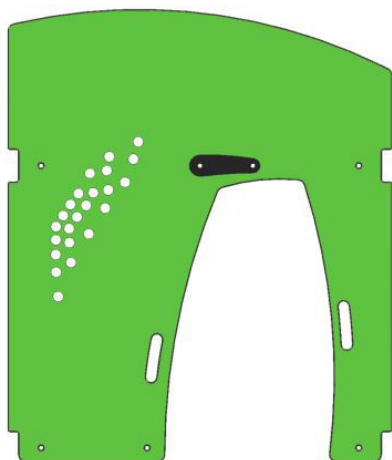
PEN200

Unit Parts List

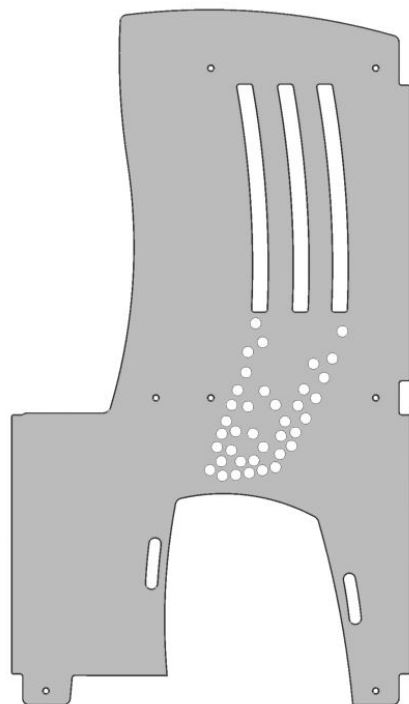
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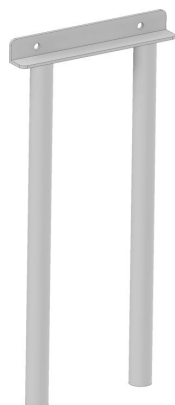
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Pen026 x2



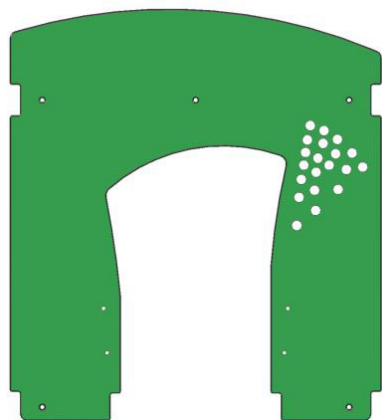
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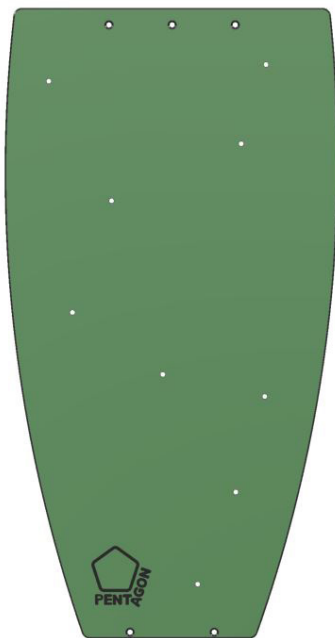
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Pen024 x1



Pen031 x1



Pen027 x1

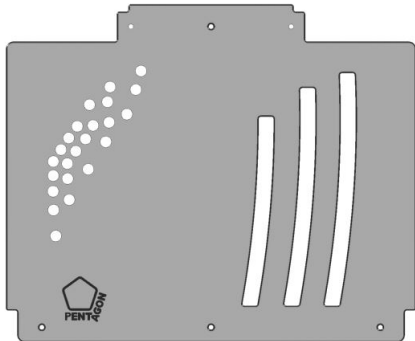


Pen028 x1

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Unit Parts List

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Pen032 x1



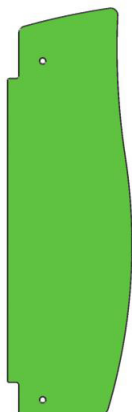
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PZ.15813 x1



PZ.15825 x1



Pen039 x1

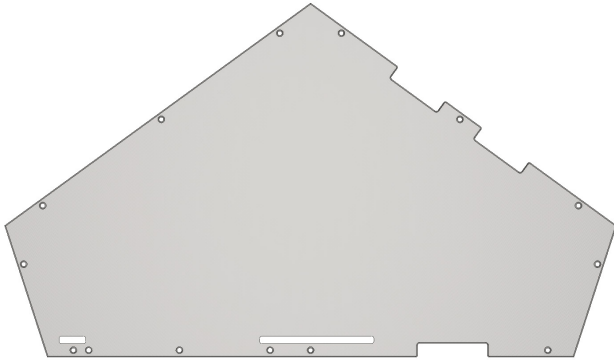
PEN200

Unit Parts List

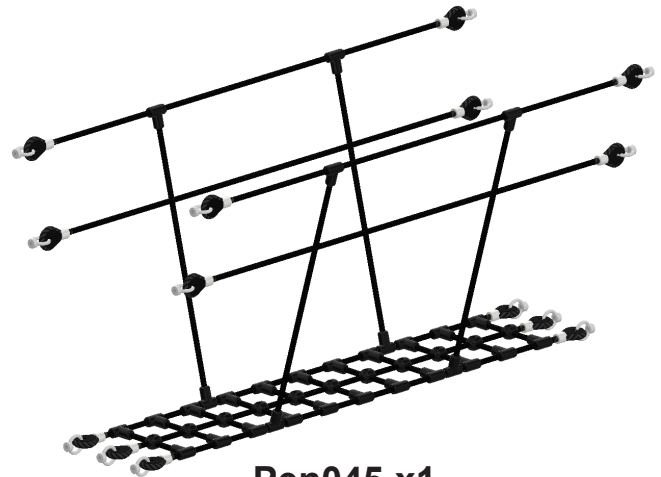
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Pen040 x2



Pen041 x1



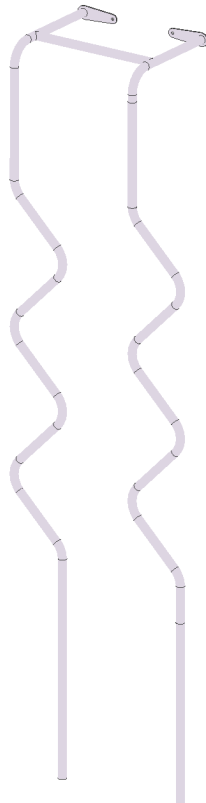
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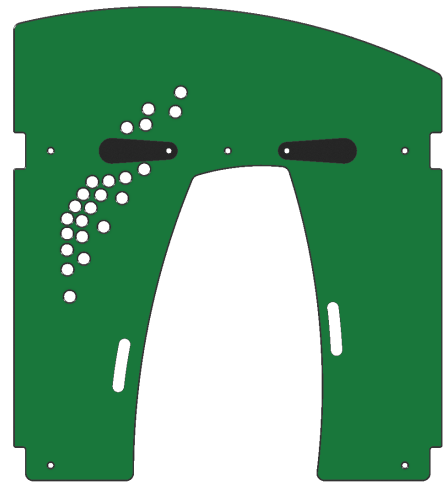
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Pen044 x4



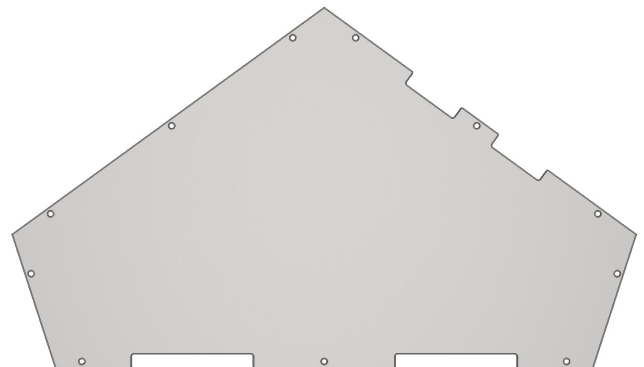
Pen048 x1



Pen046 x1



Pen043 x2

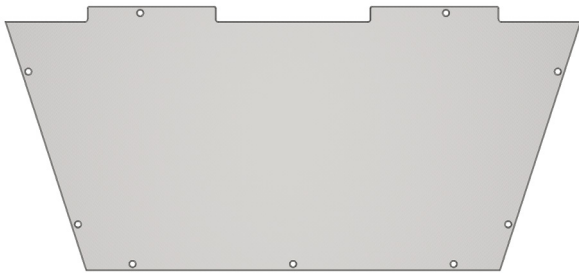


Pen049 x1

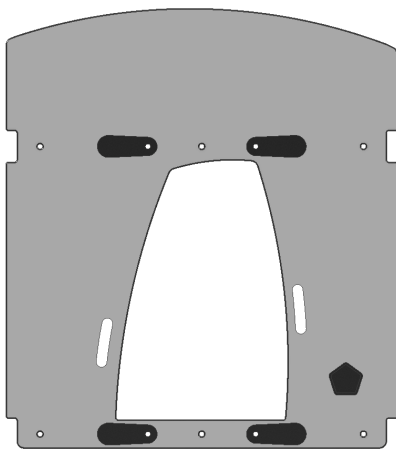
PEN200

Unit Parts List

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Pen050 x1



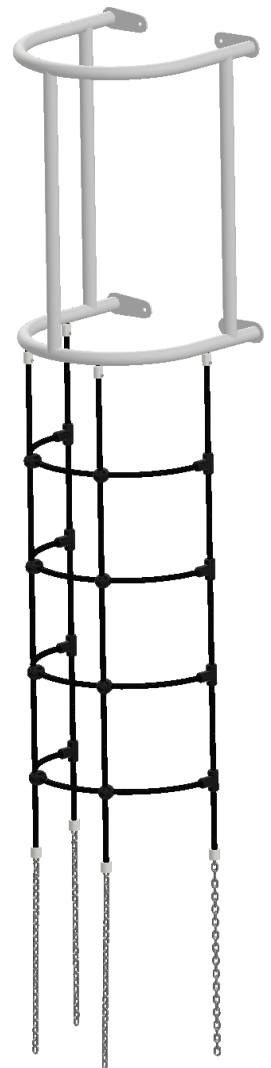
Pen051 x1



Pen052 x1

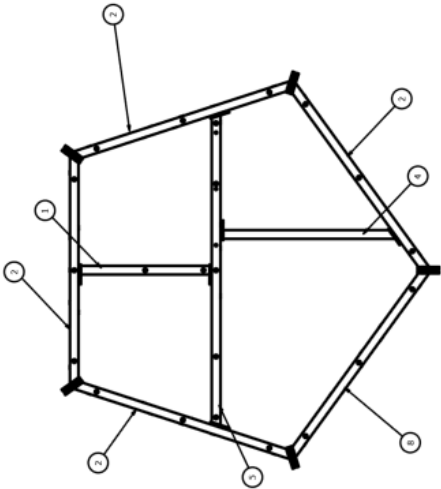


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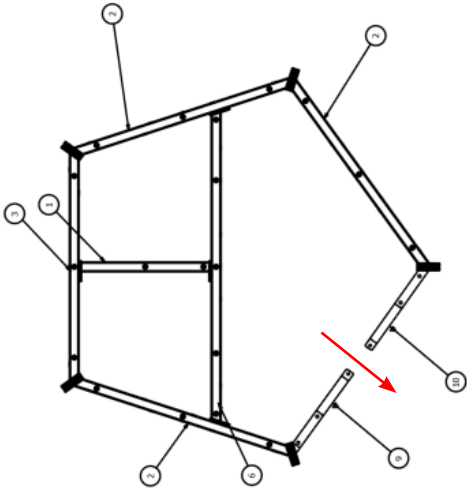


Pen053 x1

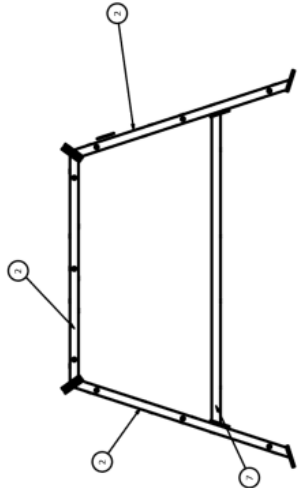
1.6M DECK FRAME



2.4M DECK FRAME

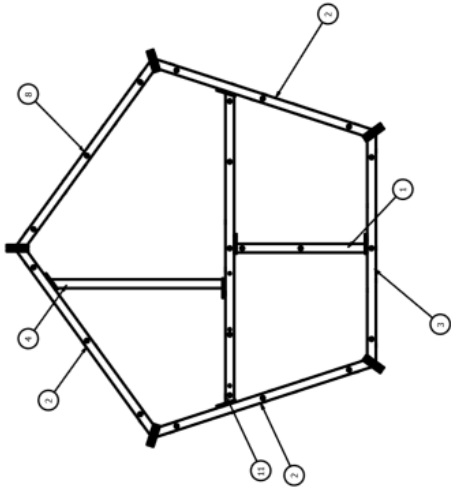


3.3M SUPPORT FRAME

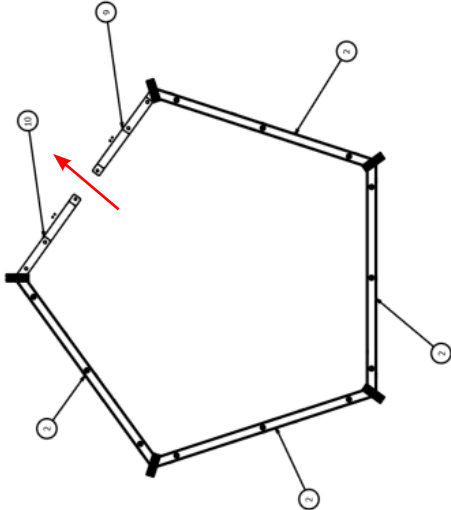


TOWER ONE

1.6M DECK FRAME



2.4M SUPPORT FRAME



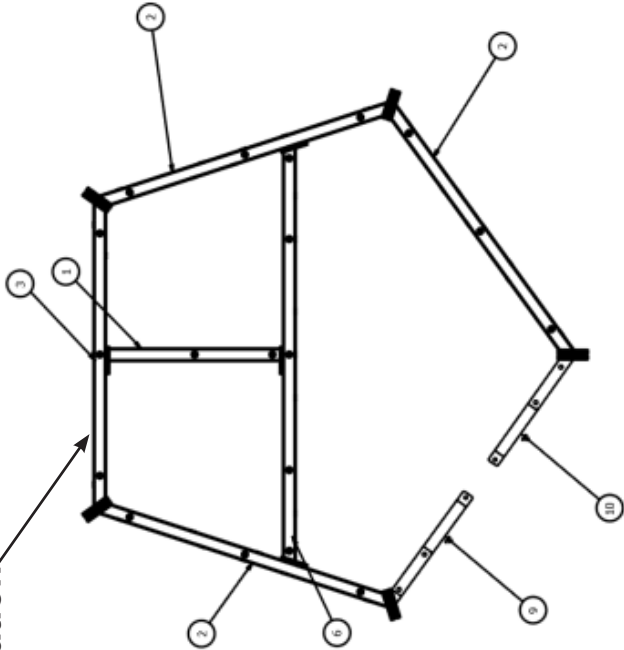
TOWER TWO

PARTS LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	PEN004	PENTAGON INNER FRAMWORK 600mm	3
2	PEN002	PENTAGON OUTER FRAMWORK STANDARD	17
3	PEN006	PENTAGON OUTER FRAMWORK SLIDE	2
4	PEN005	PENTAGON INNER FRAMWORK 800mm	2
5	PEN003	PENTAGON INNER FRAMWORK 1432mm	1
6	PEN008	PENTAGON INNER FRAMWORK 1432mm	1
7	PEN009	PENTAGON INNER FRAMWORK 1432mm	1
8	PEN040	PENTAGON V-BRIDGE FRAMWORK	2
9	PEN042	PENTAGON V-BRIDGE FRAMWORK LH	2
10	PEN043	PENTAGON V-BRIDGE FRAMWORK RH	2
11	PEN052	PENTAGON INNER FRAMWORK 1432mm	1
		TOTAL FRAMEWORK PCS	34

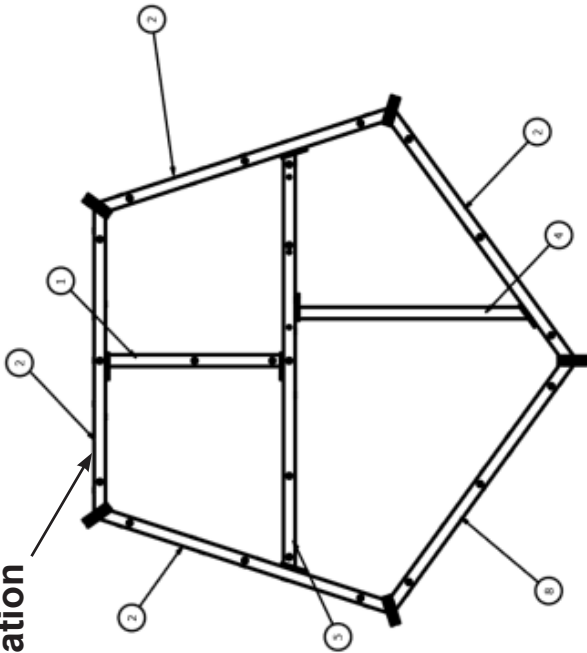
PEN200

Framework Configurations Large Tower

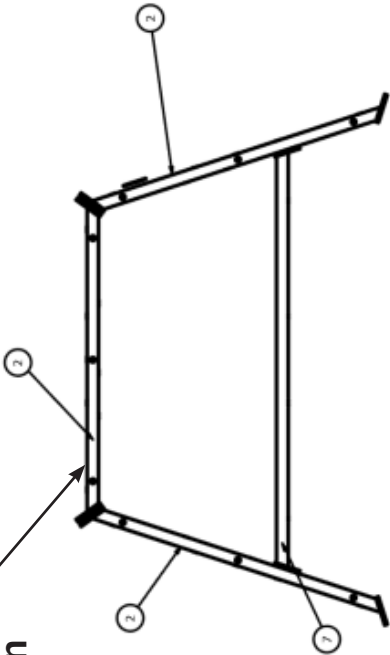
Large Slide
side for
orientation



Large Slide 1.6M DECK FRAME
side for
orientation



3.3M SUPPORT FRAME
Large Slide
side for
orientation

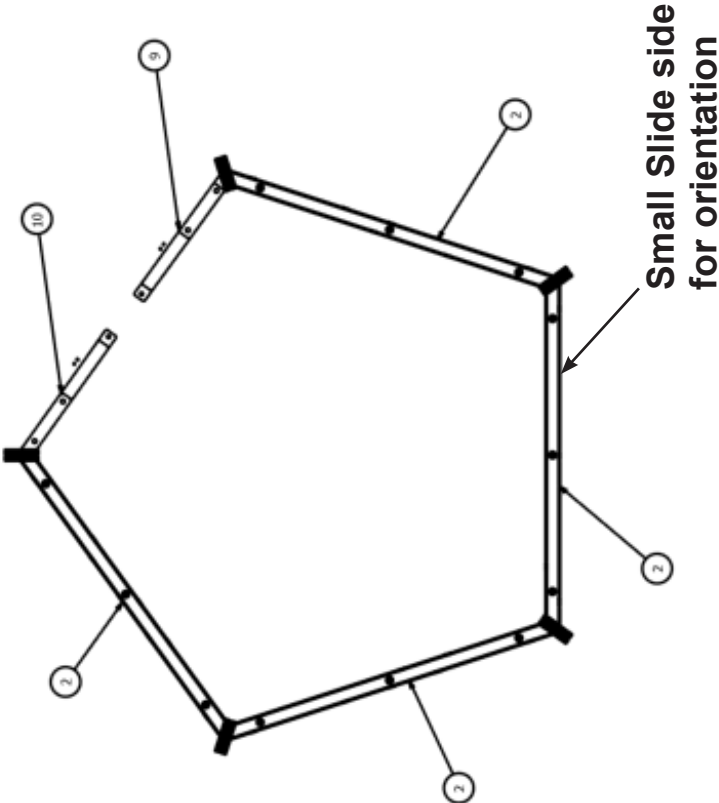


PARTS LIST		
ITEM	PART NUMBER	DESCRIPTION
1	PEN004	PENTAGON INNER FRAMEWORK 600mm
2	PEN002	PENTAGON OUTER FRAMEWORK STANDARD
3	PEN006	PENTAGON OUTER FRAMEWORK SLIDE
4	PEN005	PENTAGON INNER FRAMEWORK 800mm
5	PEN003	PENTAGON INNER FRAMEWORK 1432mm
6	PEN008	PENTAGON INNER FRAMEWORK 1432mm
7	PEN009	PENTAGON INNER FRAMEWORK 1432mm
8	PEN040	PENTAGON V-BRIDGE FRAMEWORK
9	PEN042	PENTAGON V-BRIDGE FRAMEWORK LH
10	PEN043	PENTAGON V-BRIDGE FRAMEWORK RH
11	PEN052	PENTAGON INNER FRAMEWORK 1432mm
		TOTAL FRAMEWORK PCS
		34

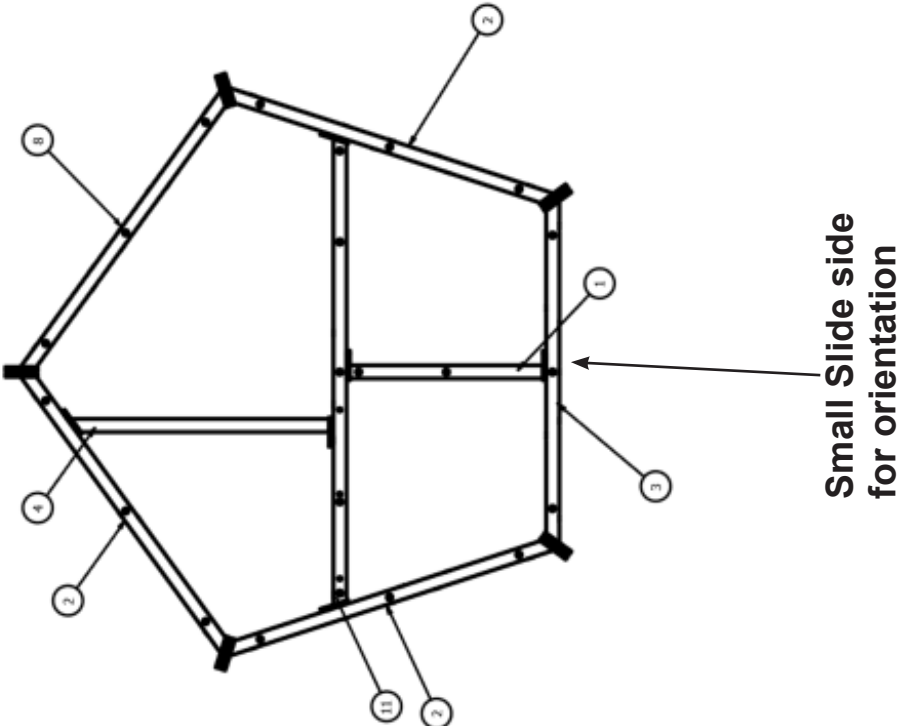
PEN200

Framework Configurations Small Tower

2.4M SUPPORT FRAME



1.6M DECK FRAME

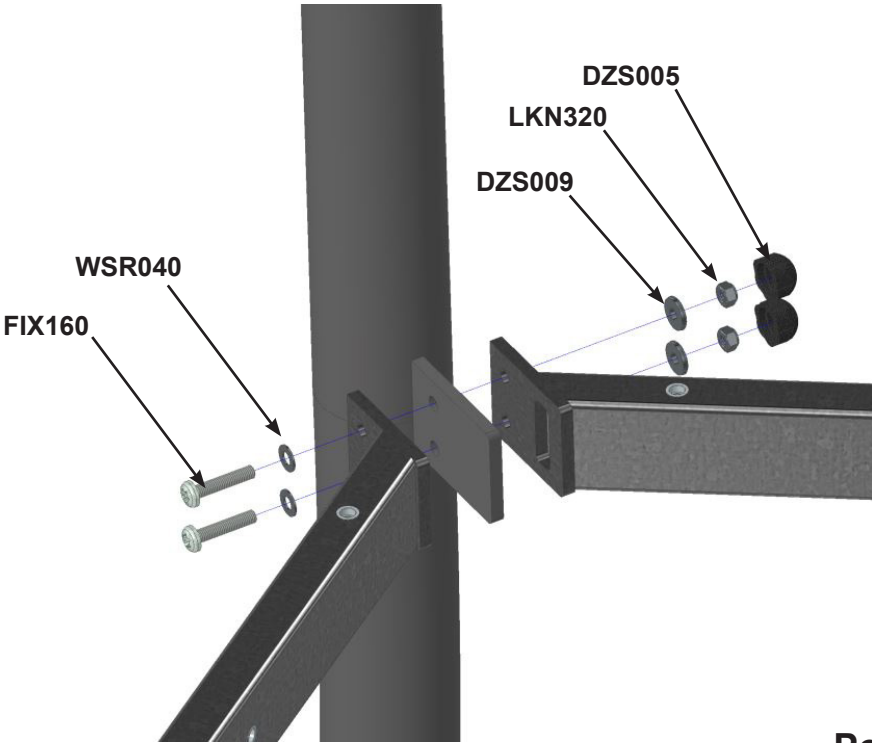


PARTS LIST		
ITEM	PART NUMBER	DESCRIPTION
1	PEN004	PENTAGON INNER FRAMEWORK 600mm
2	PEN002	PENTAGON OUTER FRAMEWORK STANDARD
3	PEN006	PENTAGON OUTER FRAMEWORK SLIDE
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7	PEN009	PENTAGON INNER FRAMEWORK 1432mm
8	PEN040	PENTAGON V-BRIDGE FRAMEWORK
9	PEN042	PENTAGON V-BRIDGE FRAMEWORK LH
10	PEN043	PENTAGON V-BRIDGE FRAMEWORK RH
11	PEN052	PENTAGON INNER FRAMEWORK 1432mm
		TOTAL FRAMEWORK PCS
		34

PEN200

Framework Fixings

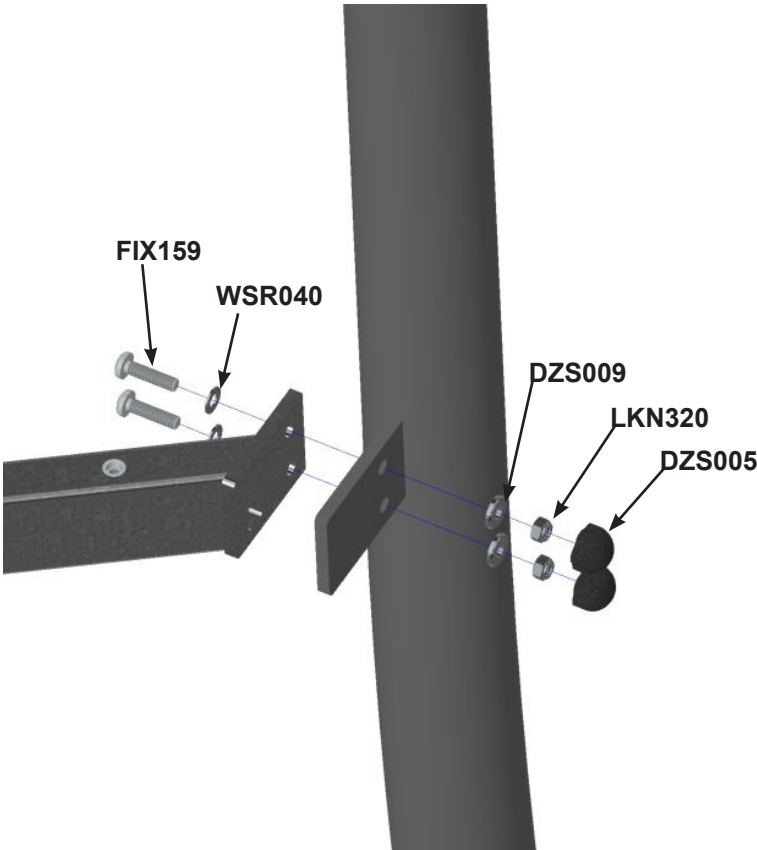
Standard Post to Framework.



Ref	Description	Qty
DZS005	M10 Nut Cover	2
LKN320	M10 Nyloc Nut	2
DZS009	M10 Step Washer	2
WSR040	M10 Plain Washer	2
FIX160	M10 x 50 Security Bolt	2

Post to Framework Single Sided.

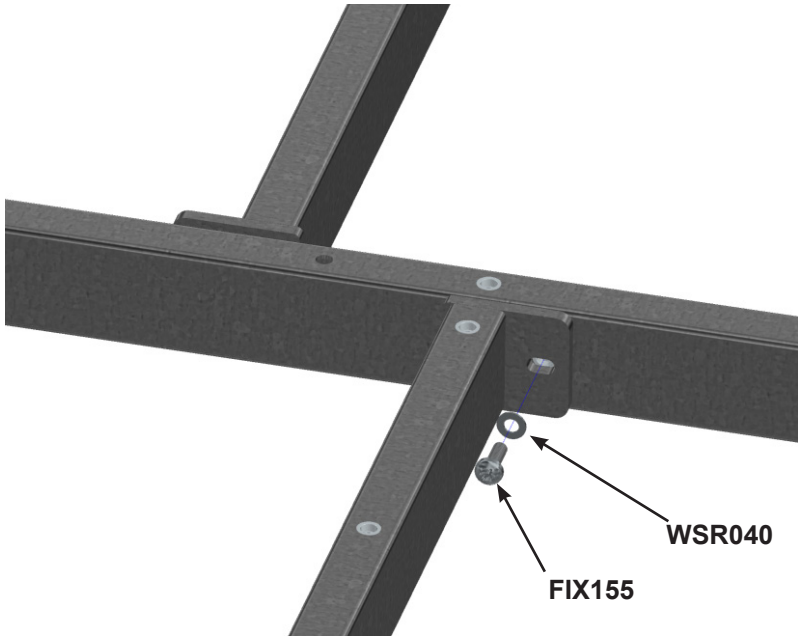
Ref	Description	Qty
DZS005	M10 Nut Cover	2
LKN320	M10 Nyloc Nut	2
DZS009	M10 Step Washer	2
WSR040	M10 Plain Washer	2
FIX159	M10 x 40 Security Bolt	2



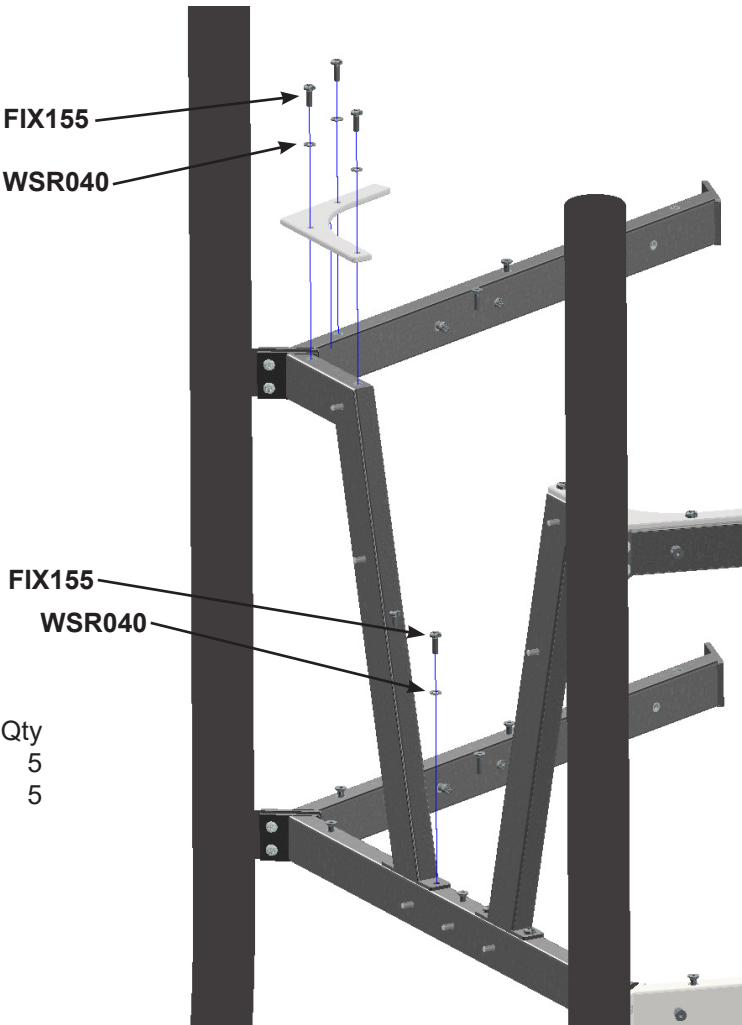
PEN200

Framework Fixings

Inner Framework.



Ref	Description	Qty
WSR040	M10 Plain Washer	1
FIX155	M10 x 30 Security Bolt	1



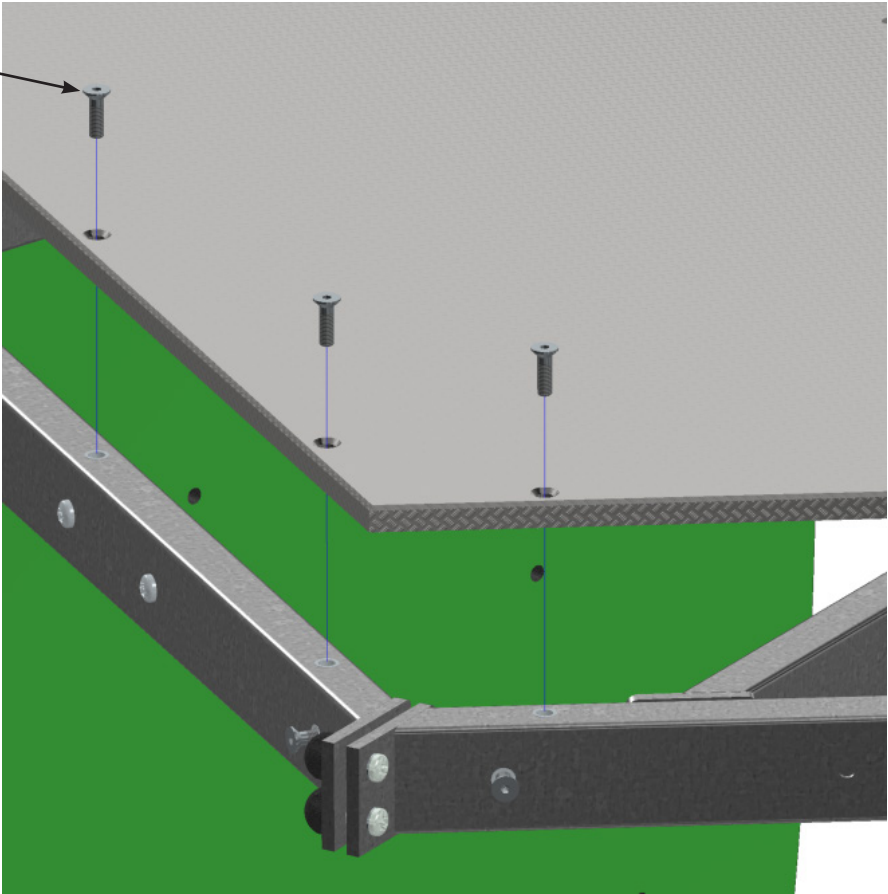
Ref	Description	Qty
WSR040	M10 Plain Washer	5
FIX155	M10 x 30 Security Bolt	5

PEN200

Deck Fixings

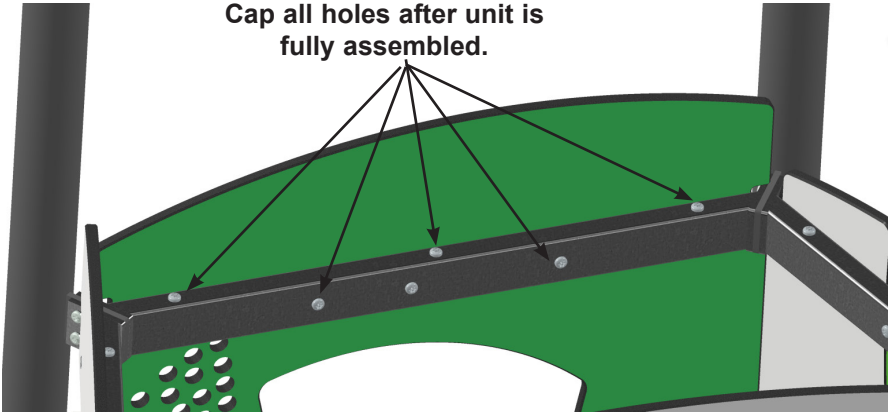
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MCS321
M10 x 35mm



Capping Holes.

FIX150
Cap all holes after unit is
fully assembled.

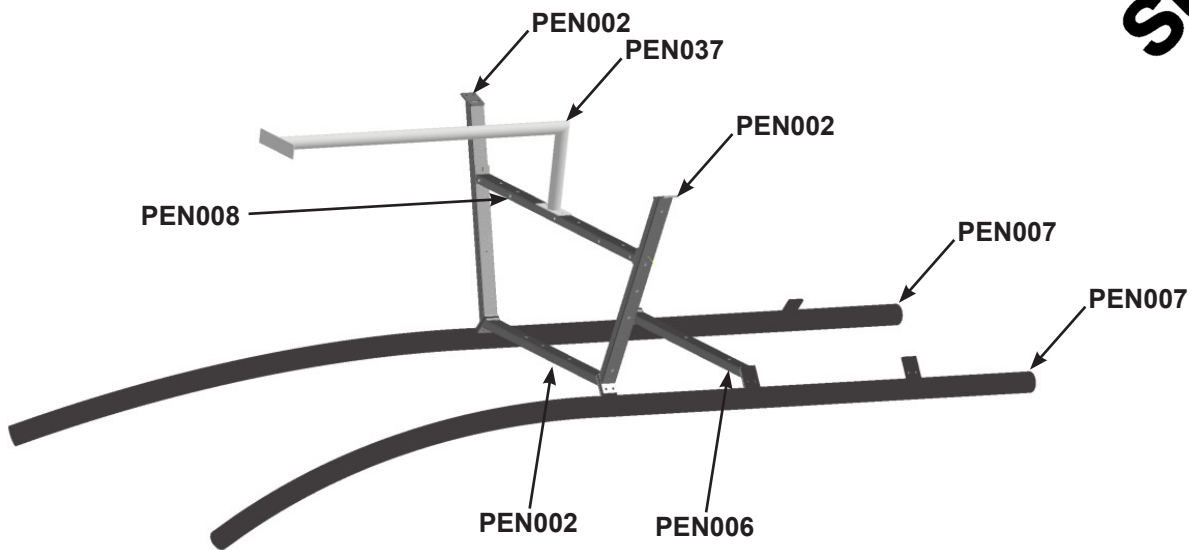


Ref	Description	Qty
FIX150	M10 x 20 Security Bolt	91

PEN200

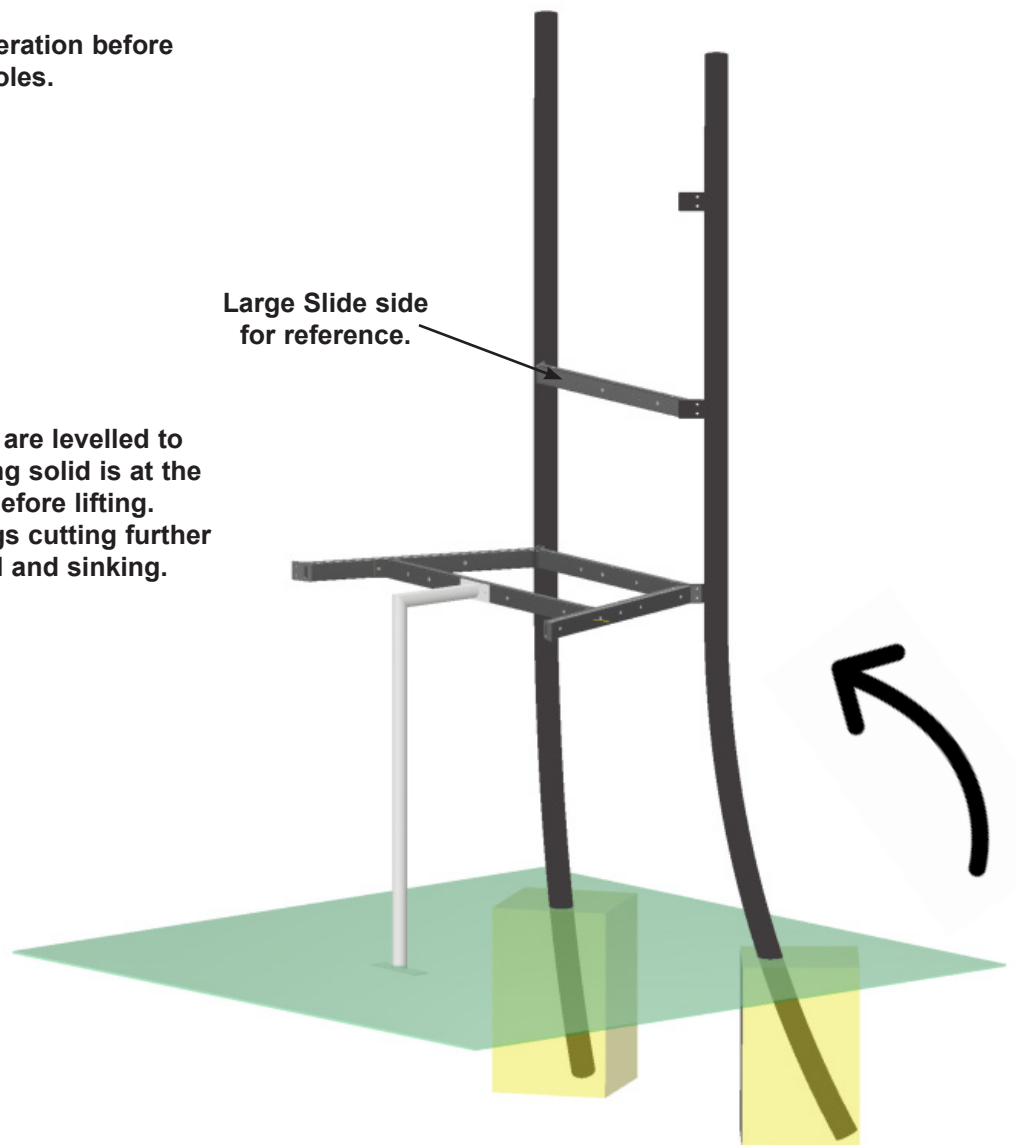
Installation Steps Guidance

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Assemble on the floor in preparation before
tilting unit into the holes.

Note: Ensure all holes are levelled to
each other and something solid is at the
bottom of the hole before lifting.
This will help prevent legs cutting further
down into the ground and sinking.



PEN200

Installation Steps Guidance

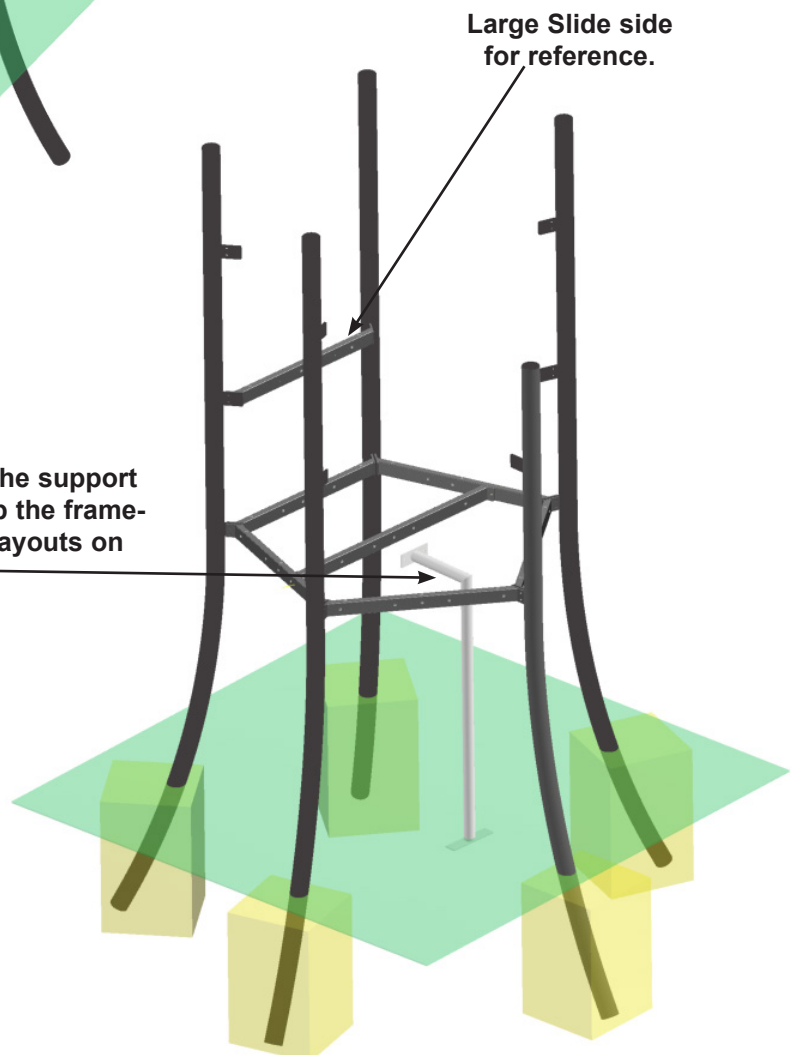
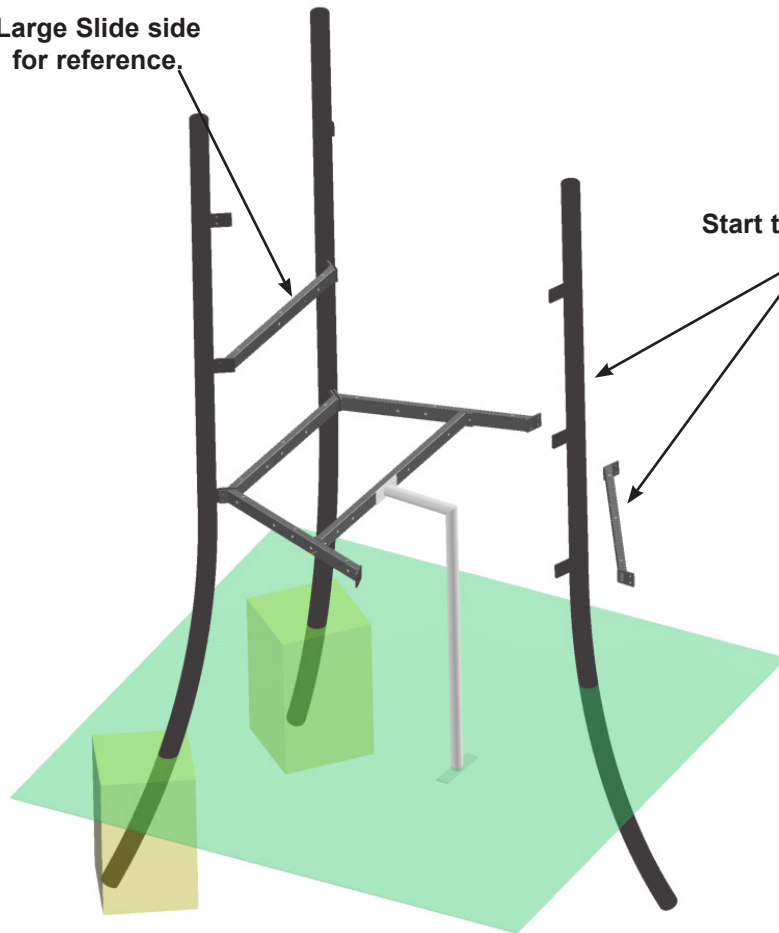
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Large Slide side
for reference.

Start to add the rest of the legs using the
framework to brace it.

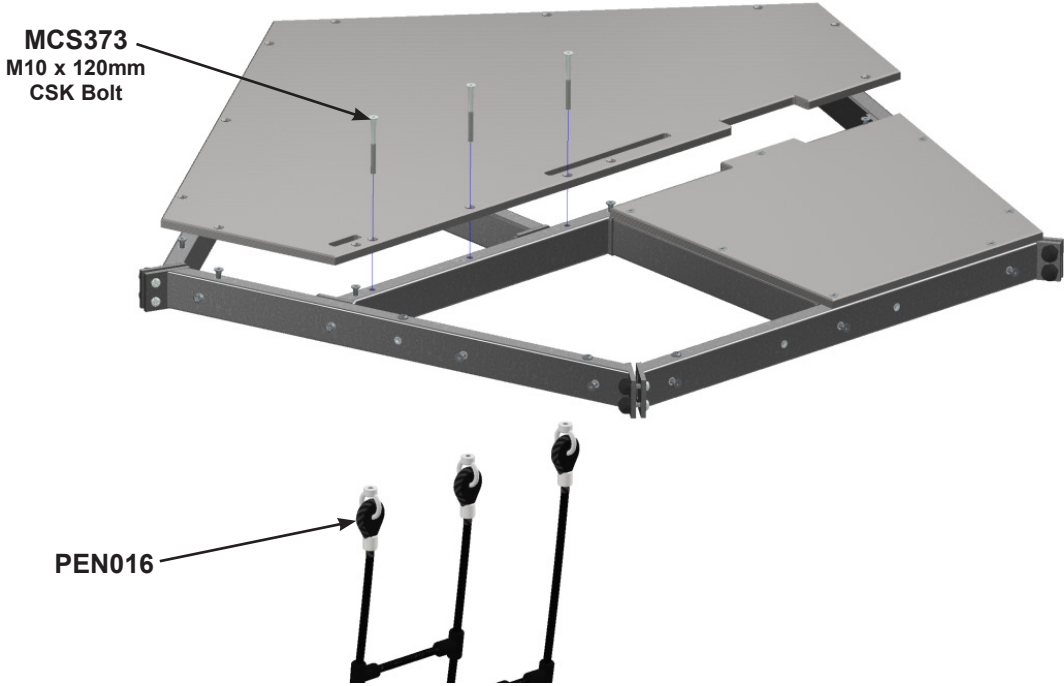
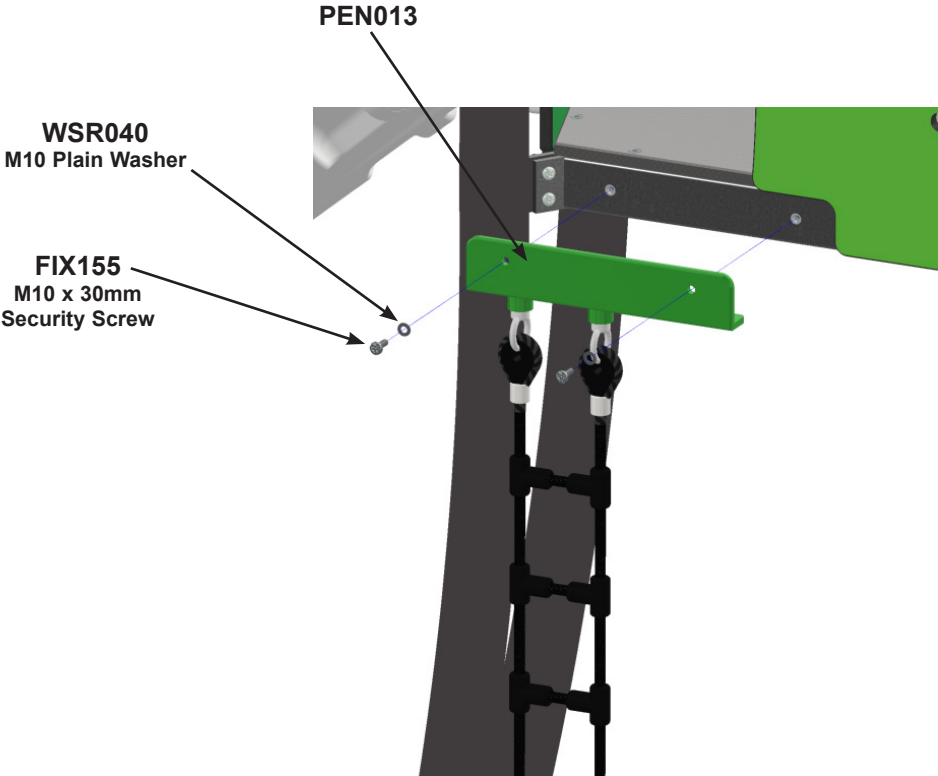
Large Slide side
for reference.

Once all 5 Legs are up, remove the support
stanchion and continue building up the frame-
work and platforms as per the layouts on
Pages 10-12.



PEN200

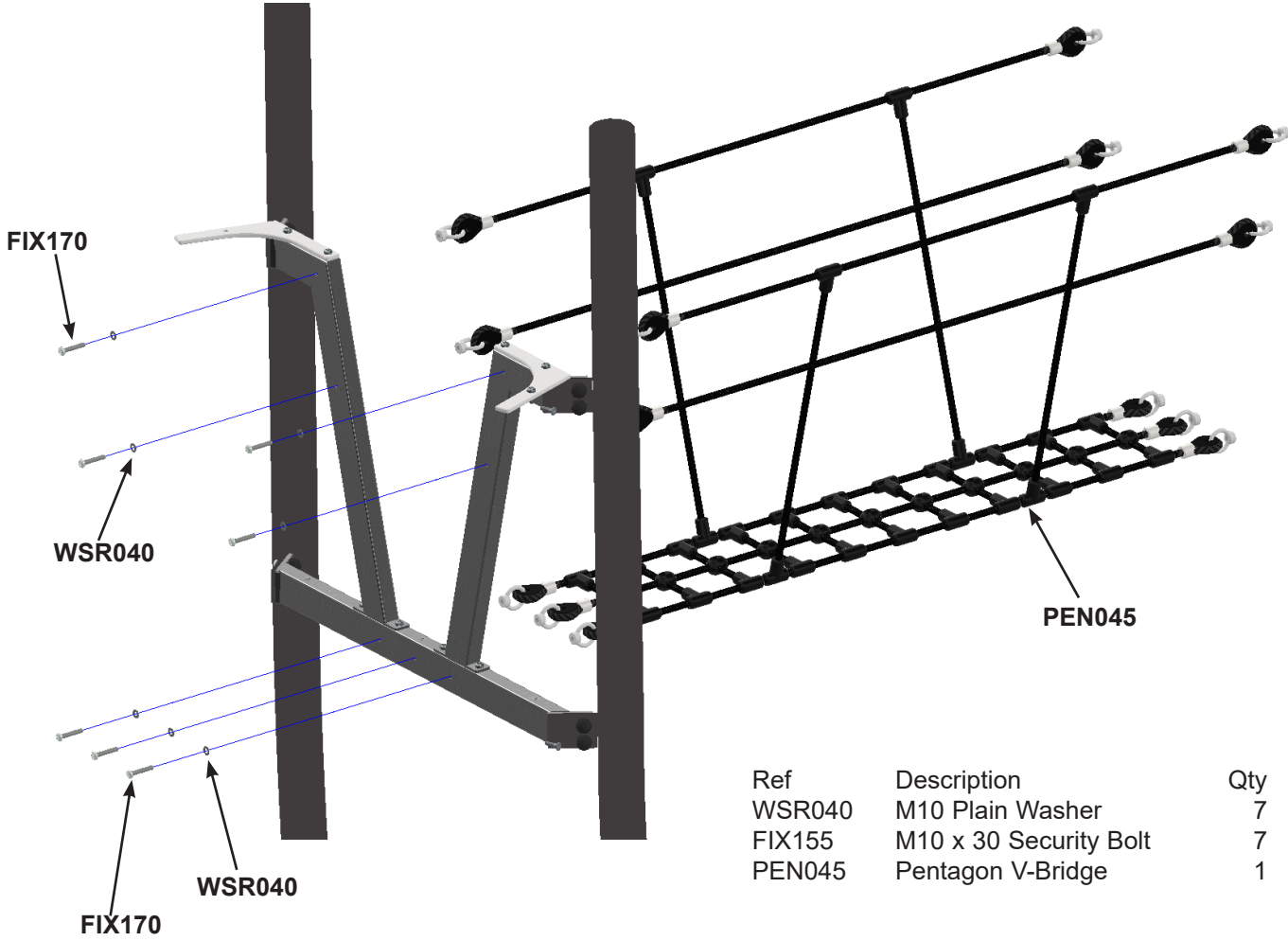
Net Assemblies



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Installation Steps V-Bridge

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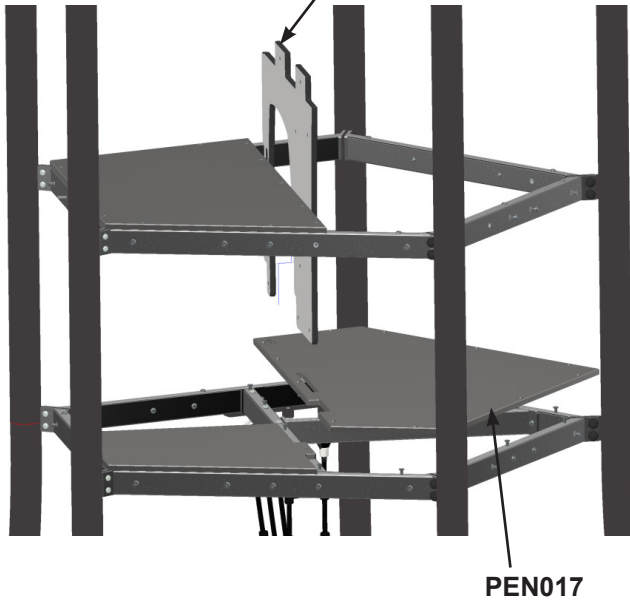


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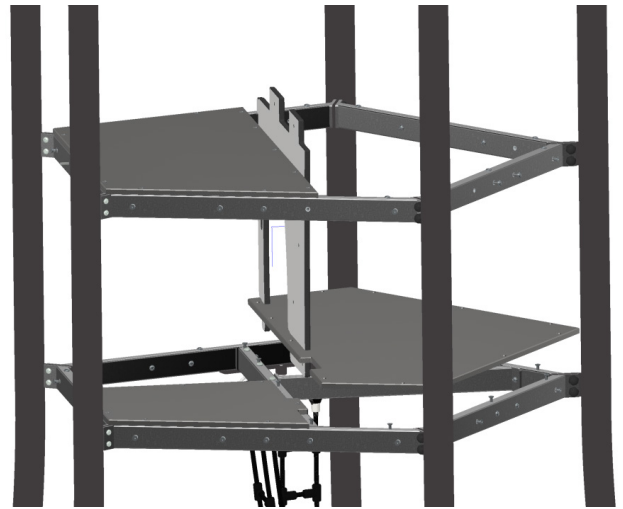
Installation Steps Guidance

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1. Lift PEN017 up and out. **PEN019**



2. Slot **PEN019** into the slots in Deck (**PEN017**)



3. Finally position Deck (**PEN017**) back onto the framework.



Large Slide side
for reference.

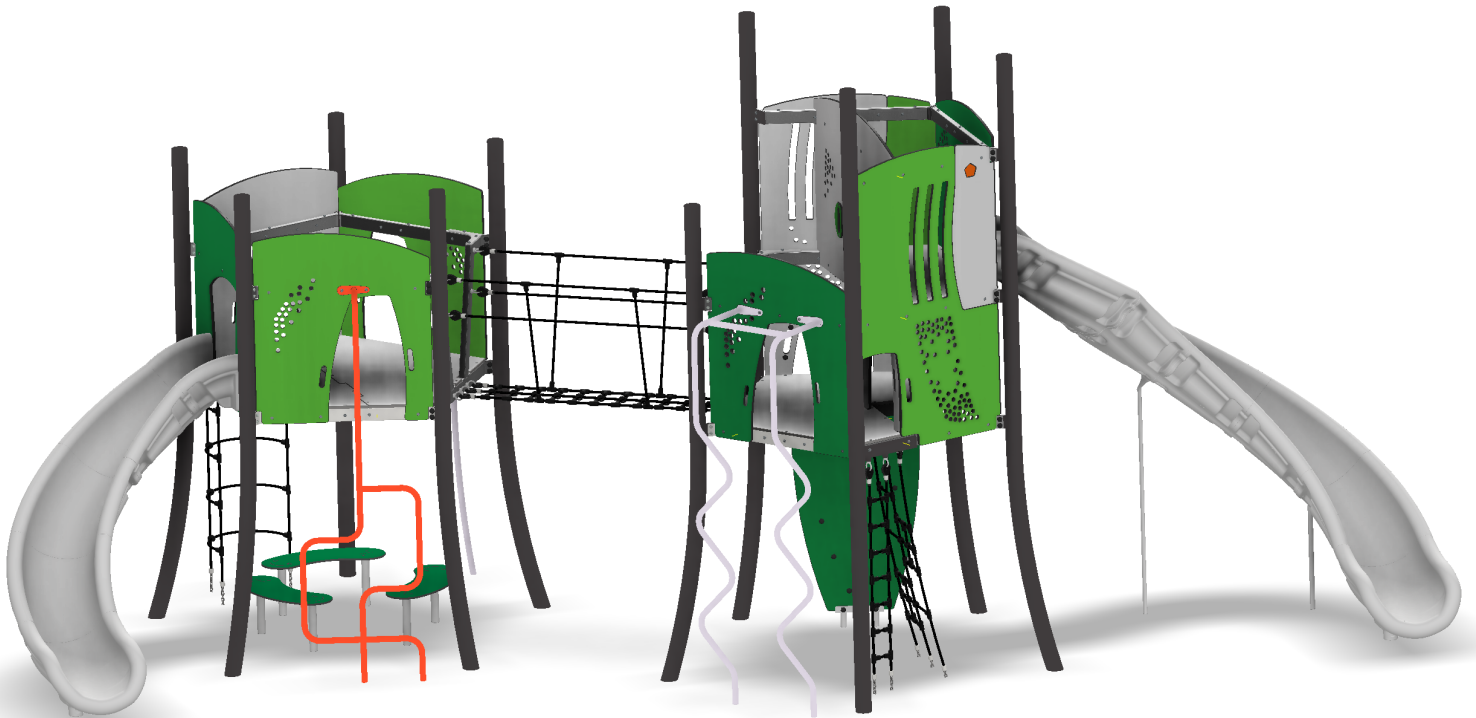
Finally, add all panelling and
metalwork activities.



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Installation Steps Guidance

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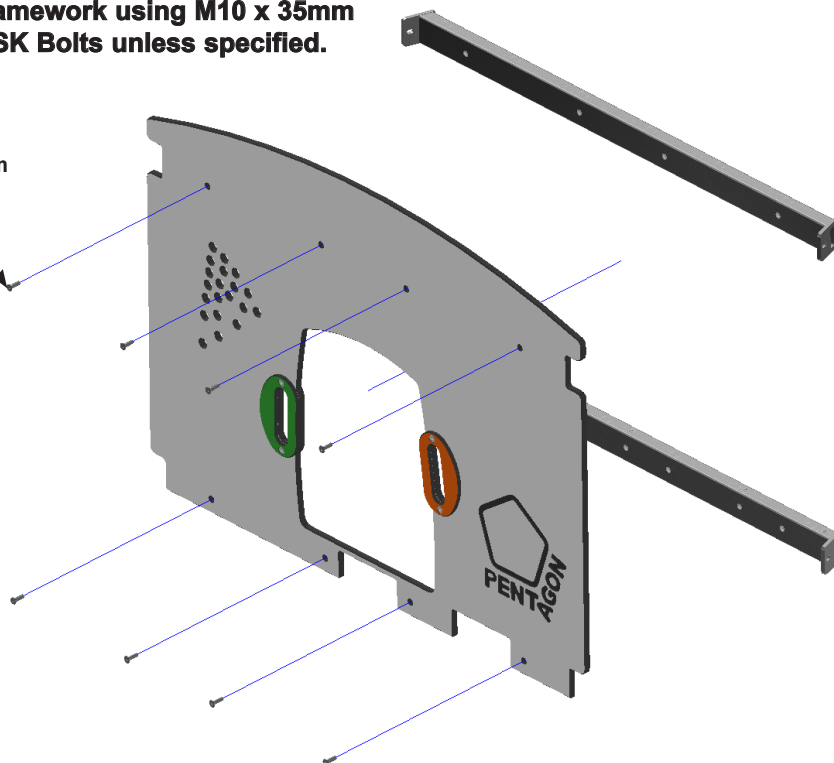


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Panel Assembly

General Panels are attached to framework using M10 x 35mm CSK Bolts unless specified.

MCS321
M10 x 35mm
CSK Bolt



Hand Hold Fixings:

MCS335
M10 x 50mm
CSK Bolt

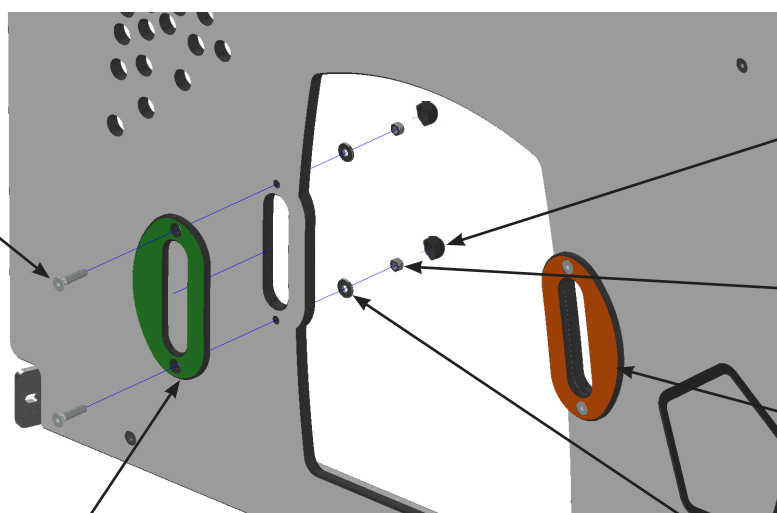
DZS005
M10 Nut Cover

LKN320
M10 Nyloc Nut

PEN022

PEN021

DZS009
M10 Step Washer



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Plastic Slides Assembly

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1. Ensure the slide opening is in line with the deck platform for a smooth transition for the user.

2. Using the 4 guide holes in the panel and 2 in the deck framework, drill through into the slide using 12mm drill bit. Drill 20mm into the slide.

3. Attach self-tapping inserts (Use M10 bolt and washer to assist).

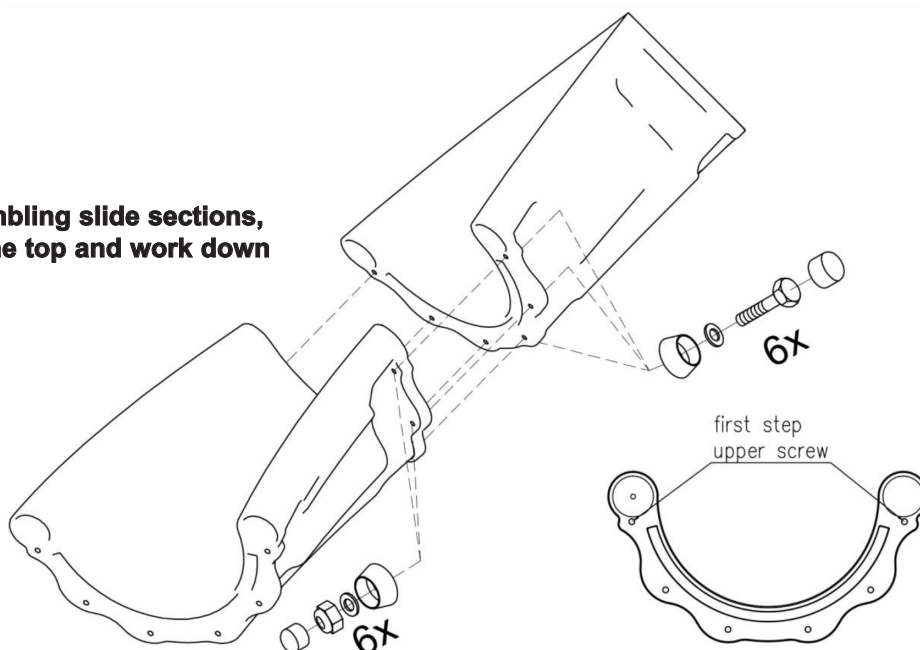


FIX158 x4

WSR040 x6

FIX172 x2

When assembling slide sections, start from the top and work down the slide.

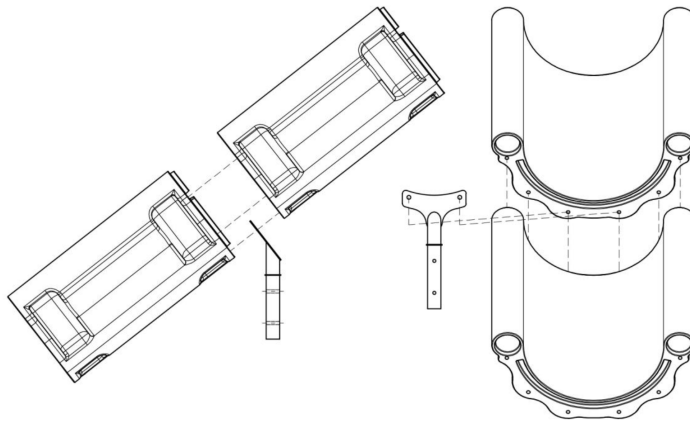


PEN200

Plastic Slides Assembly

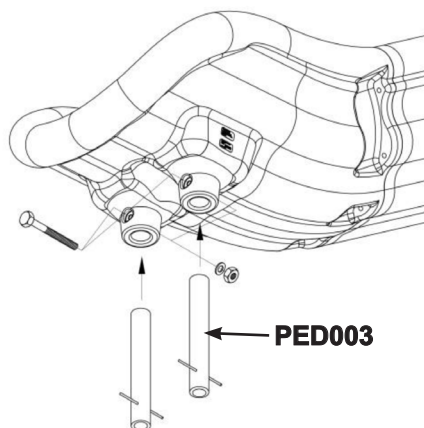
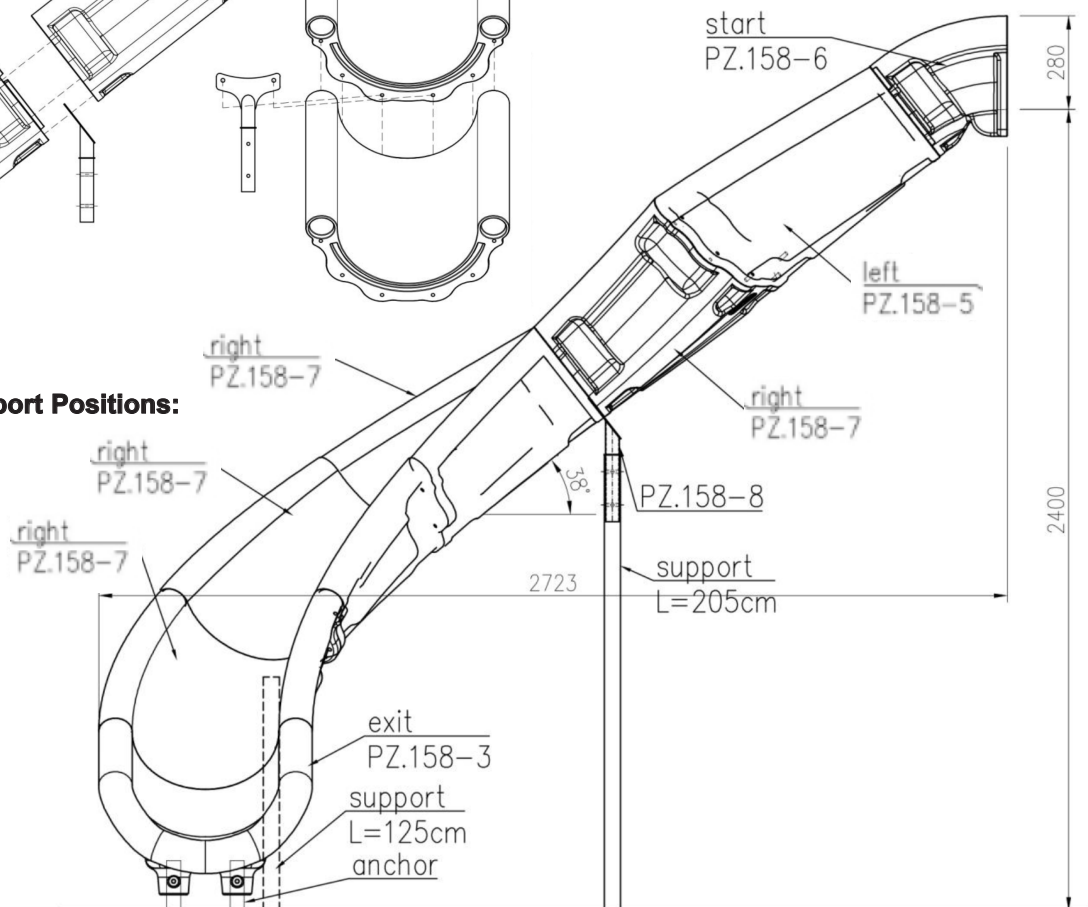
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make
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Mounting the Slide Supports:

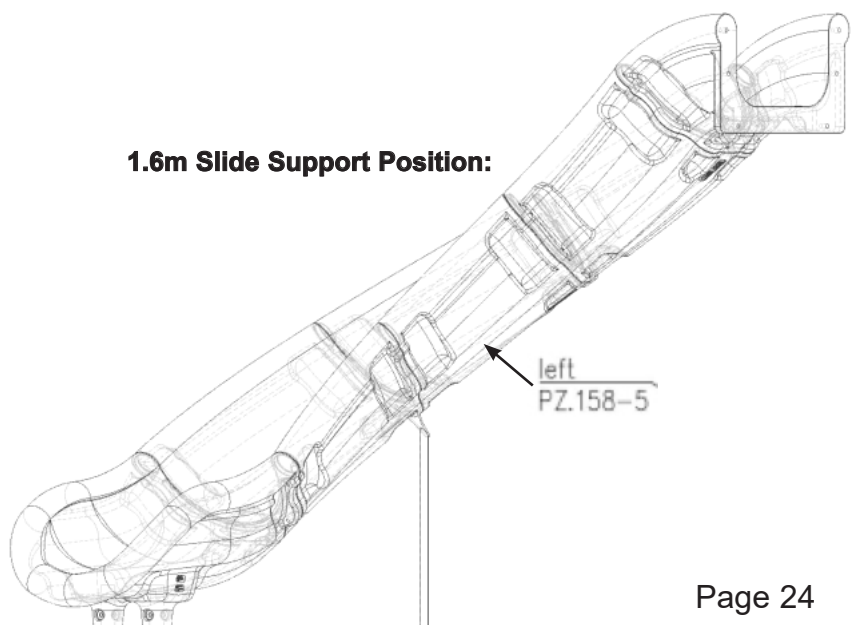


When assembling slide sections,
start from the top and work down
the slide.

2.4m Slide Support Positions:



1.6m Slide Support Position:

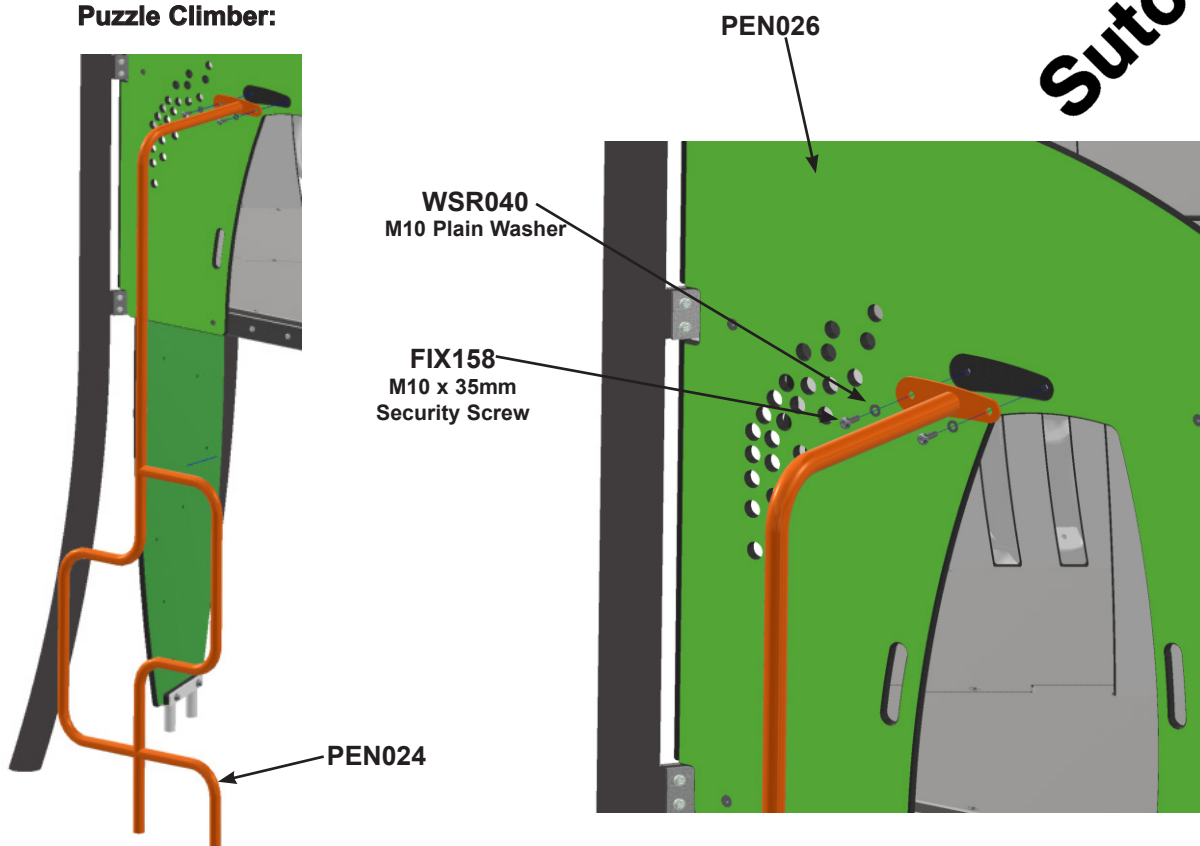


PEN200

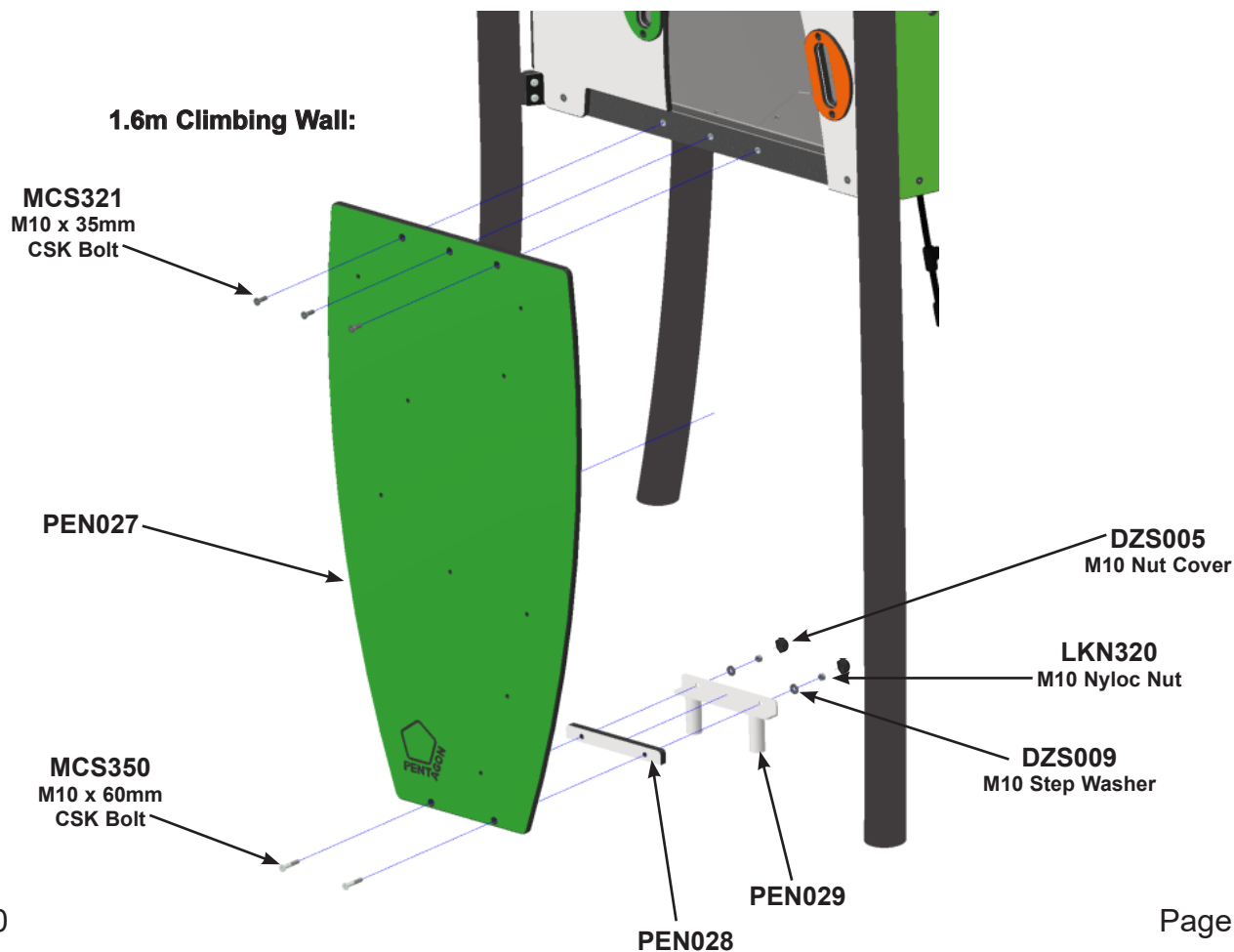
Equipment Assembly

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Puzzle Climber:



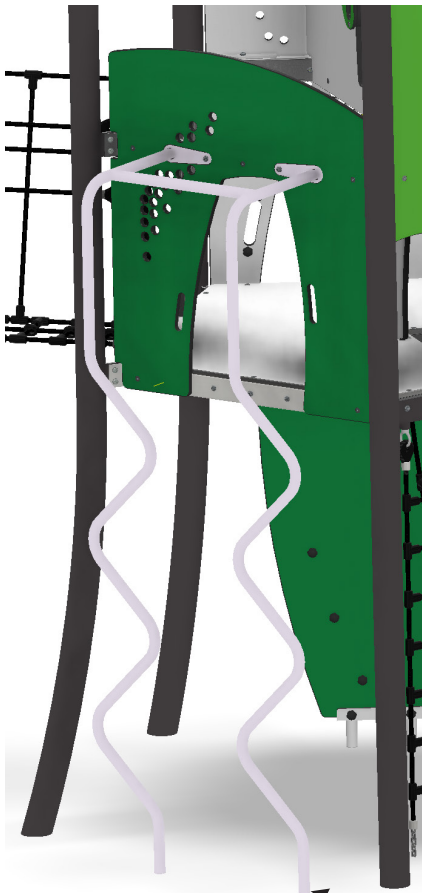
1.6m Climbing Wall:



PEN200

Equipment Assembly

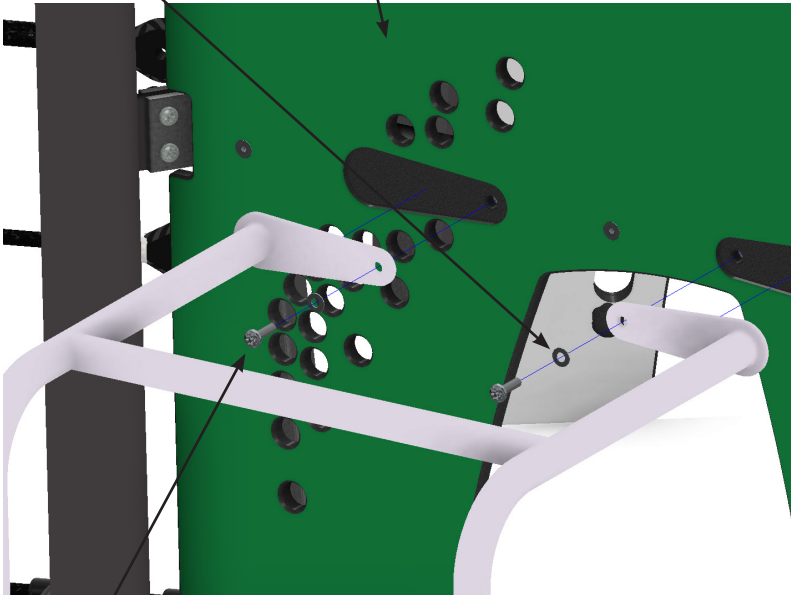
Zig Zag Climber:



PEN048

WSR040
M10 Plain Washer

PEN046



FIX158
M10 x 35mm
Security Screw

Crescent Climber:



FIX158
M10 x 35mm
Security Screw

WSR040
M10 Plain Washer

PEN051

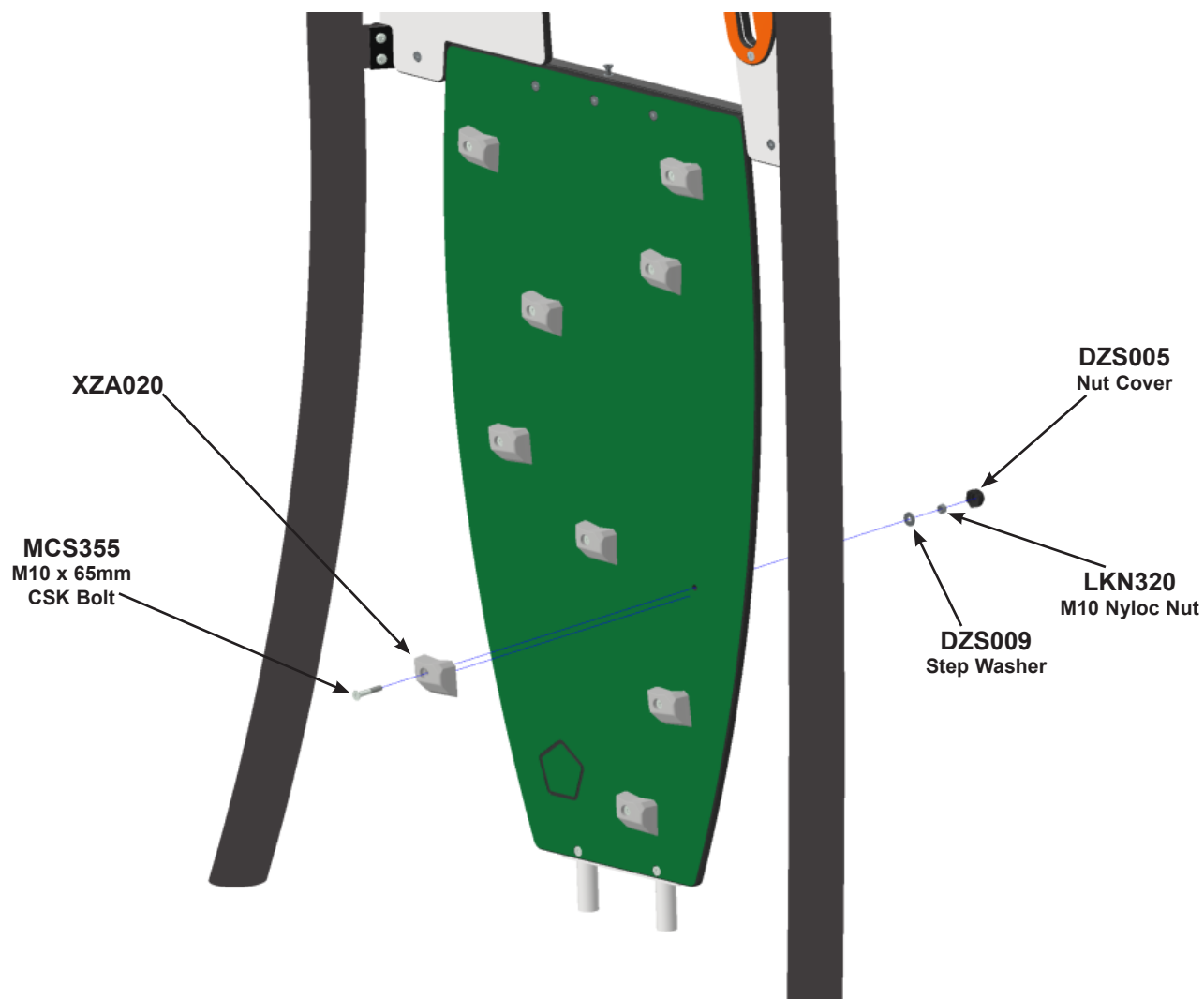
PEN053



PEN200

Equipment Assembly
Climbing Nodules

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PEN200

Unit

Maintenance Instructions

NOTE

The warranty is invalidated if these instructions are not followed.
All wood needs annual inspection and retreatment where required.

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Recommended Regular Inspection and Maintenance

	Interval Days				
	7	14	28	56	365
Check stability of structure, tighten connections if required.	☐	☐	☐	☒	☐
Check all uprights at ground level for corrosion and/or rot. Replace any defective parts.	☐	☐	☐	☐	☒
Check all painted elements for damage, rub down and repaint or replace as required.	☐	☐	☐	☒	☐
Check chain/ropework assemblies for wear and damage, replace if required.	☐	☒	☐	☐	☐
Check rotating and pivot points for wear and smooth running lubricate or replace if required.	☐	☐	☒	☐	☐
Check rubber parts for wear and/or damage, replace if required.	☐	☐	☒	☐	☐
Check tension cables, adjust if required.	☐	☐	☒	☐	☐
Check wear of cables, replace if required.	☐	☐	☒	☐	☐
Check slide chutes for smoothness and any foreign elements, remove any found.	☐	☐	☒	☐	☐
Check rubber safety surfaces for damage and poor performance, repair or replace if required.	☐	☐	☐	☒	☐
Check loose fill safety surfaces, remove any foreign elements, rake level and top up if required.	☐	☐	☒	☐	☐

Disposal Instructions

All components should be broken down into categories of:-

- 1 **Mild Steel** - all activities and frames
- 2 **Stainless Steel** - all Slides, Mirror Panels.
- 3 **Aluminium** - all Playzone and Toddlerzone Posts.
- 4 **Galvanised Steel** - all Chains and Teenzone Posts.
- 5 **Moulded Rubber Products without steel inserts** - all Toddlerzone Caps and edge details.
- 6 **Timber** - all natural timber, plywood, and MDF panels.

Wherever possible these materials should be taken to specialist recycling organisations and recycled.

In some cases where composite materials are used, then disposal at land fill sites is the only alternative such as:

- 7 **Moulded Rubber Products encasing steel inserts** - all Swing Seats, Deck Tops, Duo/Dizzy Disc Tops.
- 8 **High Pressure Laminate** - all Toddlerzone, Playzone and Teenzone Panels.
- 9 **Steel Core Polypropylene Rope** - all Scramble Nets, Space Nets, Playzone/Toddlerzone Ropes.