

ECO STRUCTURES

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Rapid Tent Installation

STEP BY STEP | **FEBRUARY 2026**





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Start here

We are thrilled that you are about to experience Eco Structures game changing Rapid Tent.

We recommend reading through the following instructions carefully before assembly and please keep a copy for future reference.

Now, unless you're an aerospace engineer, assembling a tent can be slightly over whelming! But alas, we have detailed all the ins and outs so you know the best way to assemble our Rapid Tent.

This 8 step assembly takes around 6 hours to build with the help of 2-3 people... but the more the merrier.

Enough of the small stuff, lets get into building!

-Karl Plunkett, Founder



STANDARD INCLUSIONS

- PVC Roof Fly
- Canvas Walls and Ceilings (Rot & Water Proof)
- 75mm Insulated Panel Floor System
- Floor Finish Varnish Marine Ply Floor
- Black Rope
- Star Pickets
- Painted Structural Steel
- 300mm High Adjustable Footing System (Adjustable to 100mm)
- All Fixings Required
- Optional 1.8m x 2.7m composite decking boards

PRODUCT WARRANTY

- Painted Structural Steel
5 Years Limited Warranty
- Canvas & PVC
4 Year Limited Warranty
- Not designed for installation beyond 5 months.
- Retensioning is required every 4 weeks.
- Failure to meet these requirements will void the warranty.



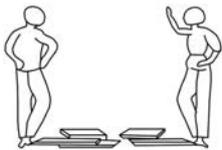
Important Tips and Maintenance

Please read through instructions carefully before assembly and keep for future reference.

KEEP THE SITE SAFE



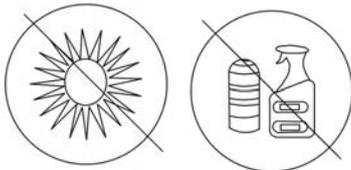
1. Keep children and animals away from the working area.



2. Wear PPE: gloves, safety glasses, and hearing protection when hammering/using power tools.

3. Minimum 2 experienced installers required (3 recommended).

PROTECT THE MATERIALS



4. Store canvas undercover before assembly to reduce shrinkage risk.

5. Keep chemicals, fuels, and solvents away from canvas and PVC.

BEFORE YOU BEGIN (CRITICAL)



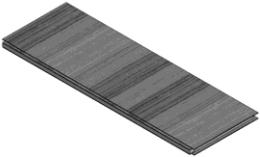
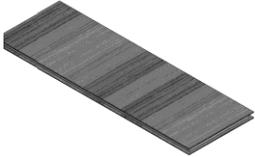
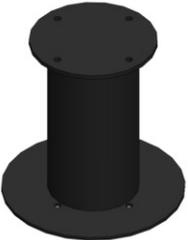
6. Confirm all materials and fixings are present before starting.

7. Do not install membranes in strong wind. (above 30 km/h).

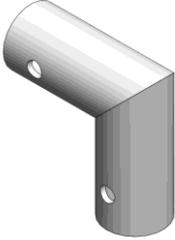
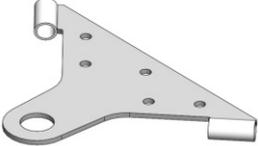
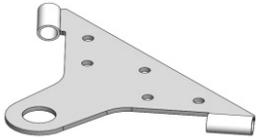
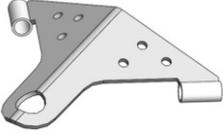
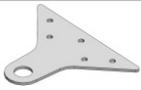


Parts

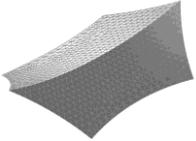
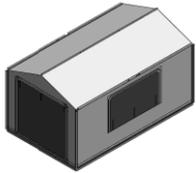
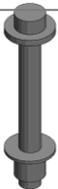
Before starting onsite confirm the below are present:

PART NUMBER	Qty.	IMAGE	PART NUMBER	Qty.	IMAGE
ECOTSP02TWP001	4		RAPID04BR004	2	
ECOTSP02TWP002	1		RAPID04BR005	4	
RAPID90SP001	12		NPUP05Star Picket 001	16	



WABIO7TBR001 (TBR2700 mm)	4		RAPID04BR731	2	
WABIO7TBR001 (TBR1757 mm)	2		RAPID04M702	2	
RAPID04M311	4		RAPID05M064	4	
RAPID05M063	2		RAPID05M710	4	
RAPID05M743	4		RAPID04M032	2	
RAPID04RSP003	2		RAPID04RSP004	2	
RAPID04RSP015	1		RAPID04RSP016	1	
RAPID05M301	2		RAPID05RSP001	2	



RAPID05RSP006	2		RAPID05RSP009	1	
RAPID05RSP010	1		RAPID - PVC	1	
RAPID09CV002	1		RAPID09RT002	2	
RAPID09RT001	2		RAPID90M12 TWIST SCHACKLE	8	
RAPID90TURN- BUCKLE	2		RAPIDROPE CLIP	40	
SHACKLE 1.5 TON	18		EYE NUTM10	6	
EYEBOLTM10X100	15		CARABINERS SHACKLE	4	
BNW_M8X20_A	44		TEK_NO14X22	8	
BNW_M6X35_A	12		BNW_M12X100_A	12	
FLANGED HEX WOOD SCREW 4.8X25	34		SCREW_WAFER- HEAD_WO OD_4.5_40	276	



Tools List

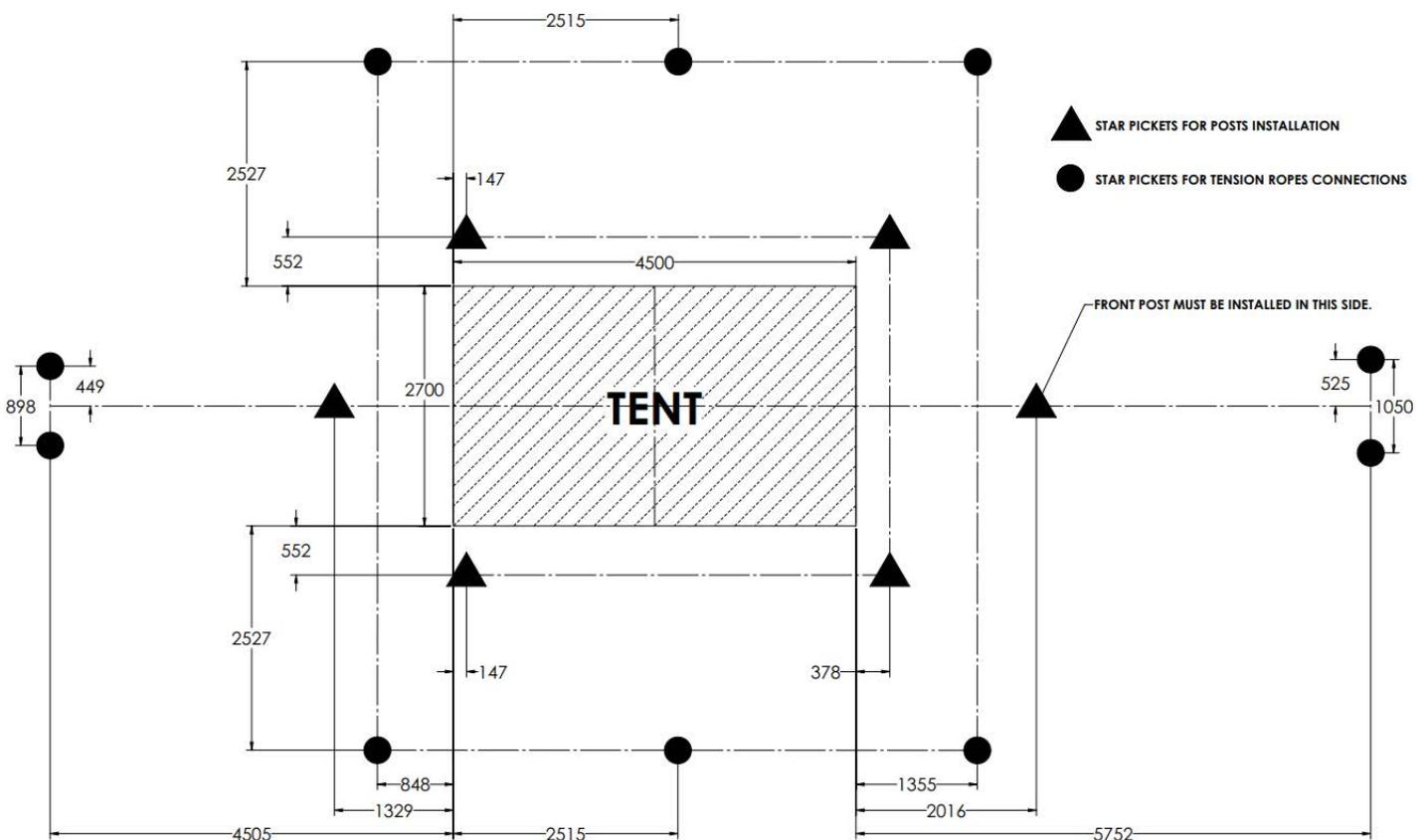
TOOL TYPE	QTY	IMAGE	TOOL TYPE	QTY	IMAGE
Cordless Impact Driver	2		16LB Sledge Hammer	1	
Cordless Angle Grinder 2 x Packs of Cutting Discs	1		375mm Shifter for base plates	1	
Stanley Knife	1 per team member		Steel Claw Hammer	1	
18V 5.0Ah Lithium-Ion Battery With Gauge	3		18V 4 Port Tool Battery Charger	1	
Driver	10		Heavy Duty Extension Lead	1	
Spirit Levels	2		Powerboard with USB Type A & C	1	
Tape Measure	2		Optional Demolition Hammer	1	
Tech Screw Drives 3/8 & 5/16	4 of each		Optional Star Picket Driver	1	
Ratchet Tie Down	1		Clamps	2	
3m Platform & Step Ladder	1		Safety: Safety Glasses & Ear Plugs	1 per team member	
String Line	1		Safety: Clothing Gloves & Fluro Vest	1 per team member	
Sharpie	1 packet		Safety: First Aid Kit	1	



Site Preparation

Before starting verify that all components listed in the previous pages are available on site, including the roof PVC membrane, canvas, posts, steel plates, wire assemblies, ground anchors (star pickets), SIP floor panels, and plastic stumps and also the required ropes.

1. Confirm the installation area is clear, level, and suitable for temporary ground anchoring.
2. Mark out the tent footprint and star picket locations as shown in the diagram.
3. Ensure the site is level within 100 mm across the full tent area.
100 mm is the maximum adjustment range of the stumps.



Step 1

INSTALLATION OF FLOORING SYSTEM

1. Lay out floor panels in the sequence shown (TWP001 and TWP002) in accordance to Figure 1.

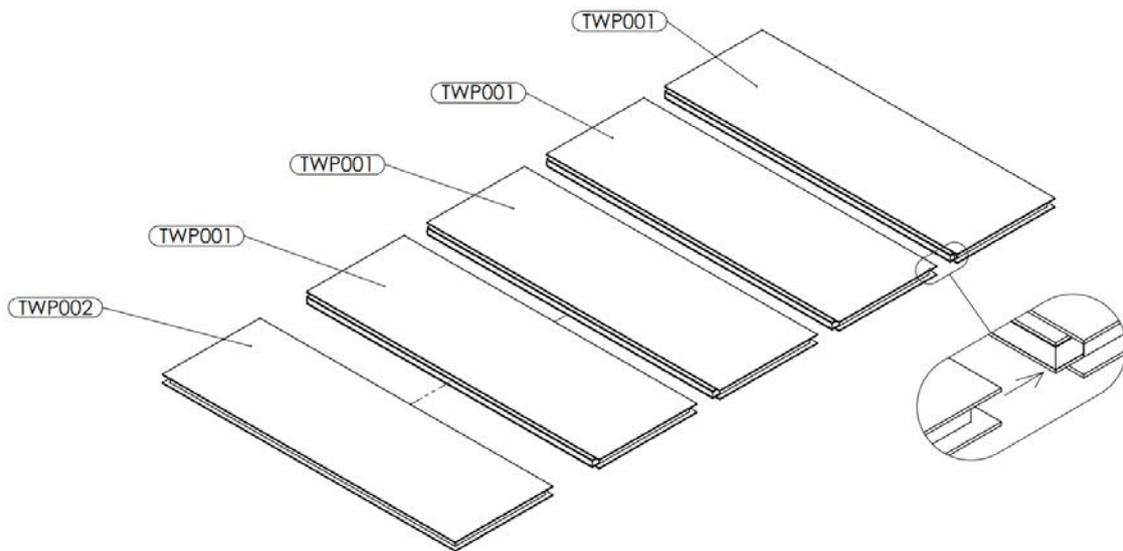


Figure 1: Sequence for Installing Floor Panels

2. Align panel edges tightly so joints are fully seated. On the first side, secure all joints using 4.5 × 40 wafer head wood screws (Figure 2).

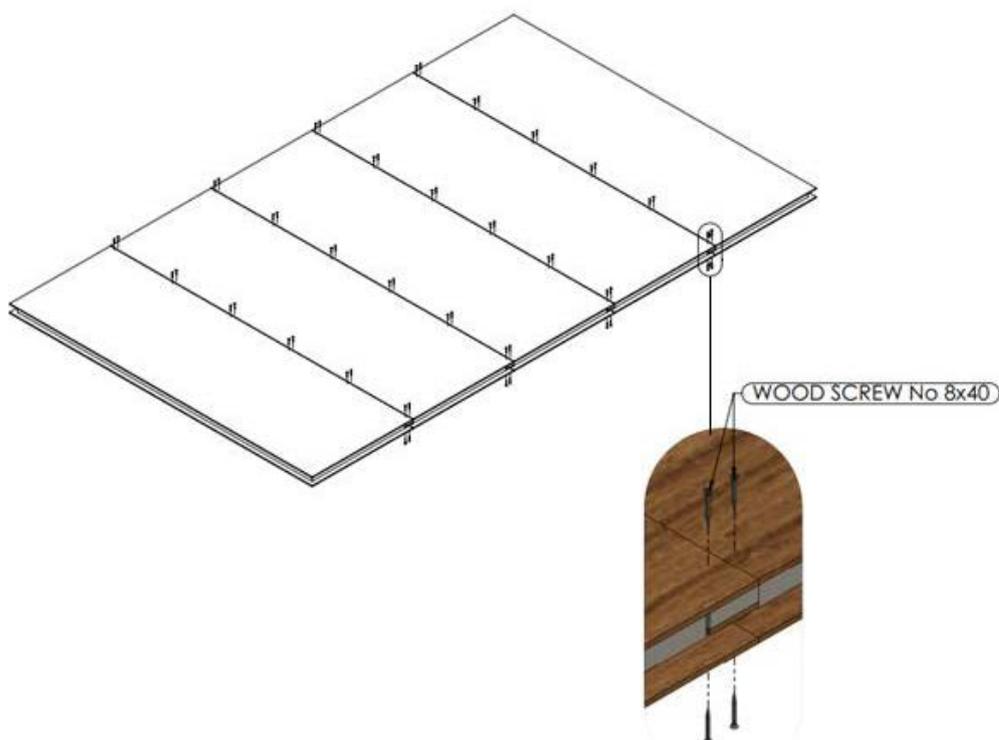


Figure 2: Connecting the panels by screw



3. Carefully flip the full panel assembly over (use 2-3 people).

4. Repeat screw fixing on the second side.

5. After positioning and securing the floor panels, place the side timbers at the panel edges (Figure 3).

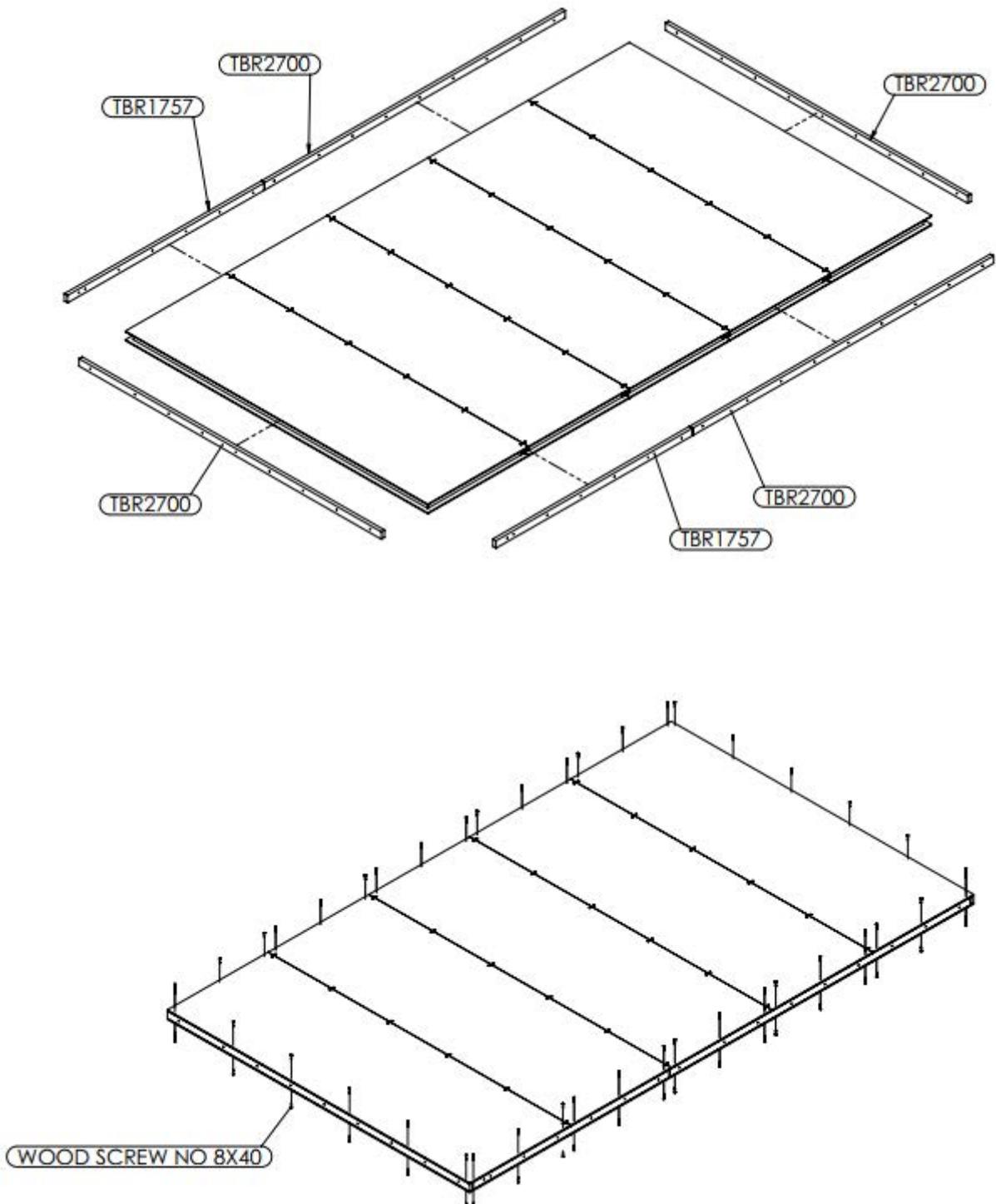


Figure 3: Connecting the side timbers



6. Fit side timbers around the perimeter (Figure 3).

7. Secure side timbers using 4.5×40 wafer head wood screws on both sides

8. Repeat the process on both sides, making sure all side timbers are securely fixed and aligned.

9. Position plastic stumps in their marked locations. Keep each stump fully within the panel boundary (do not allow it to protrude past the edge).

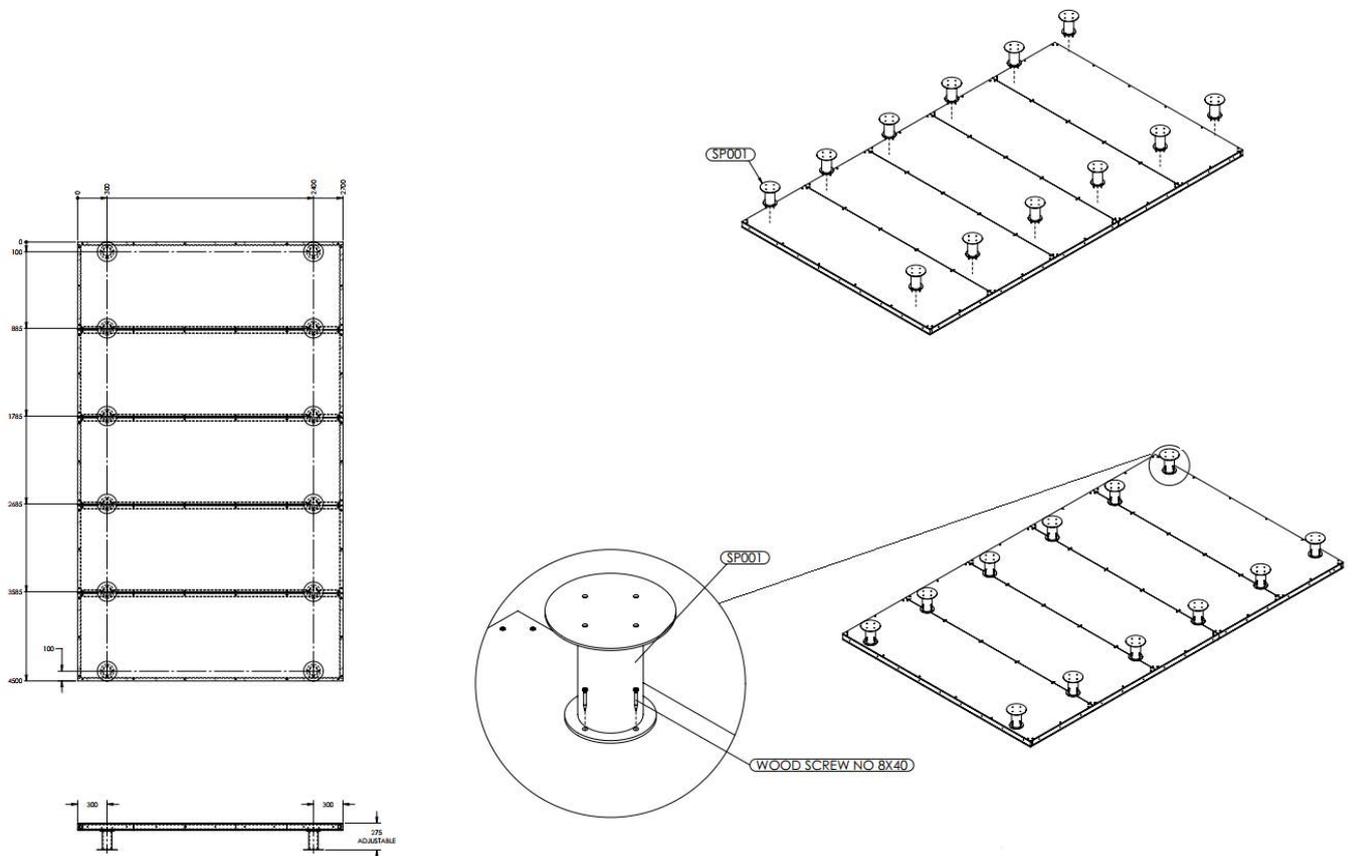


Figure 4: Positioning the plastic stumps in their designated locations.

10. Fix stumps using the indicated fixing points, then check level across the floor.

11. Final check: all stumps fixed, all screws tight, floor stable and level.



Step 2

INSTALLATION OF STAR PICKETS

1. Mark out tent area and 16 Star Picket locations (Figure 5).
2. Install each star picket at an angle of 60–80 degrees (Figure 6).
3. Drive pickets into the ground using a jack hammer/ sledgehammer (or demolition hammer with picket driver).
4. For tension ropes Star pickets, leave the star pickets partially above ground to allow attachment of the shackles at a later stage.

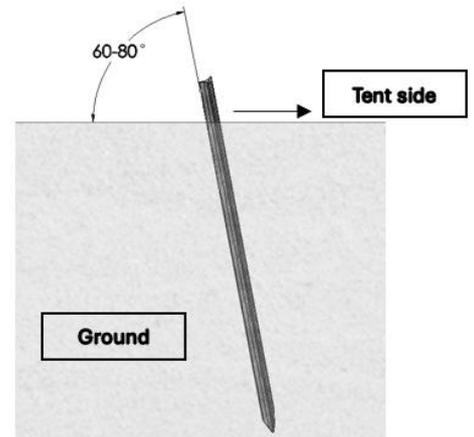


Figure 6: Star Picket installation angle

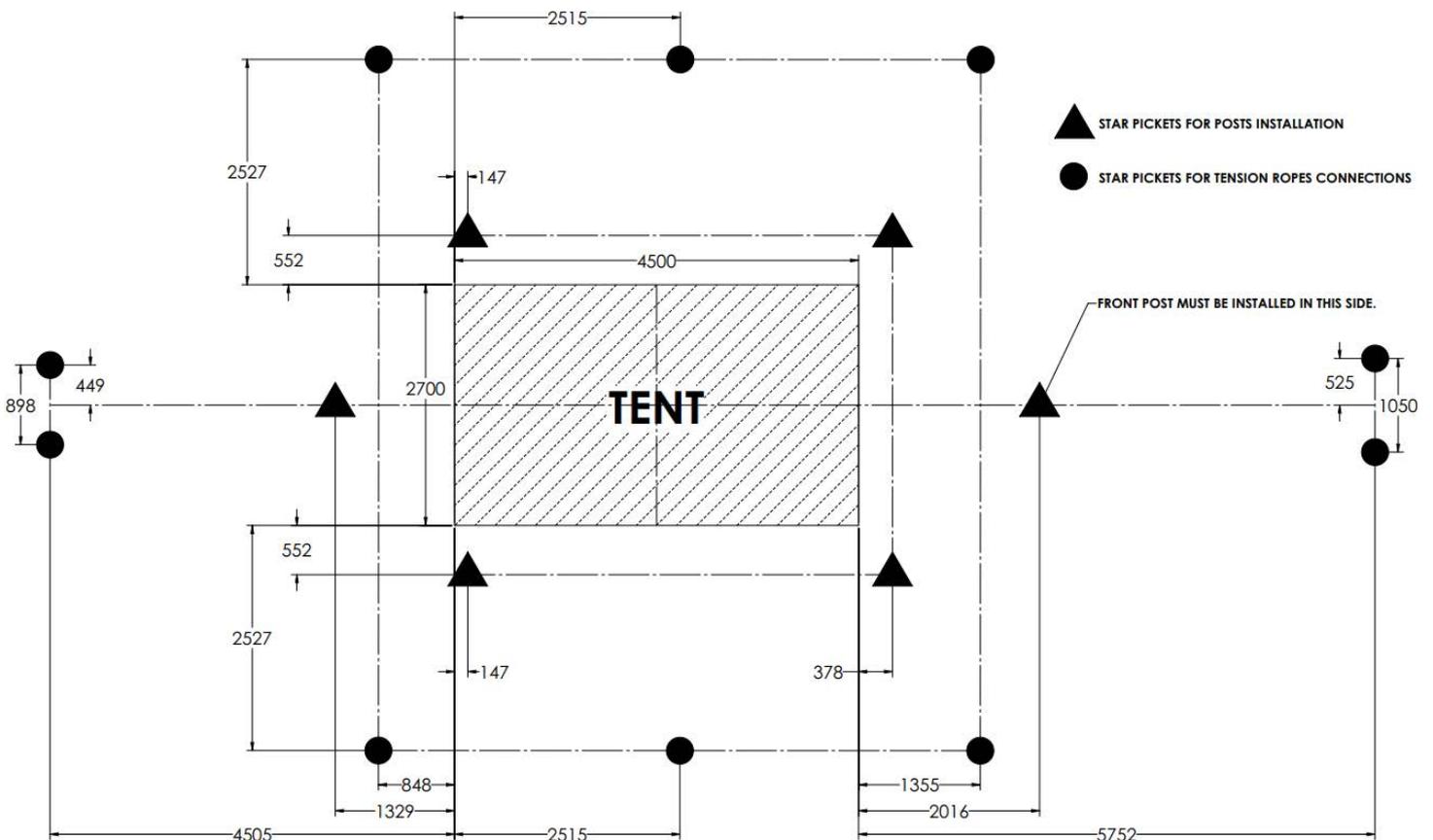


Figure 5: Position of star pickets relative to tent footprint



Step 3

POSTS POSITIONING

1. Position all posts in place at the locations marked with triangle in Figure 5. Ensure the arrangement matches the configuration shown in Figure 7.

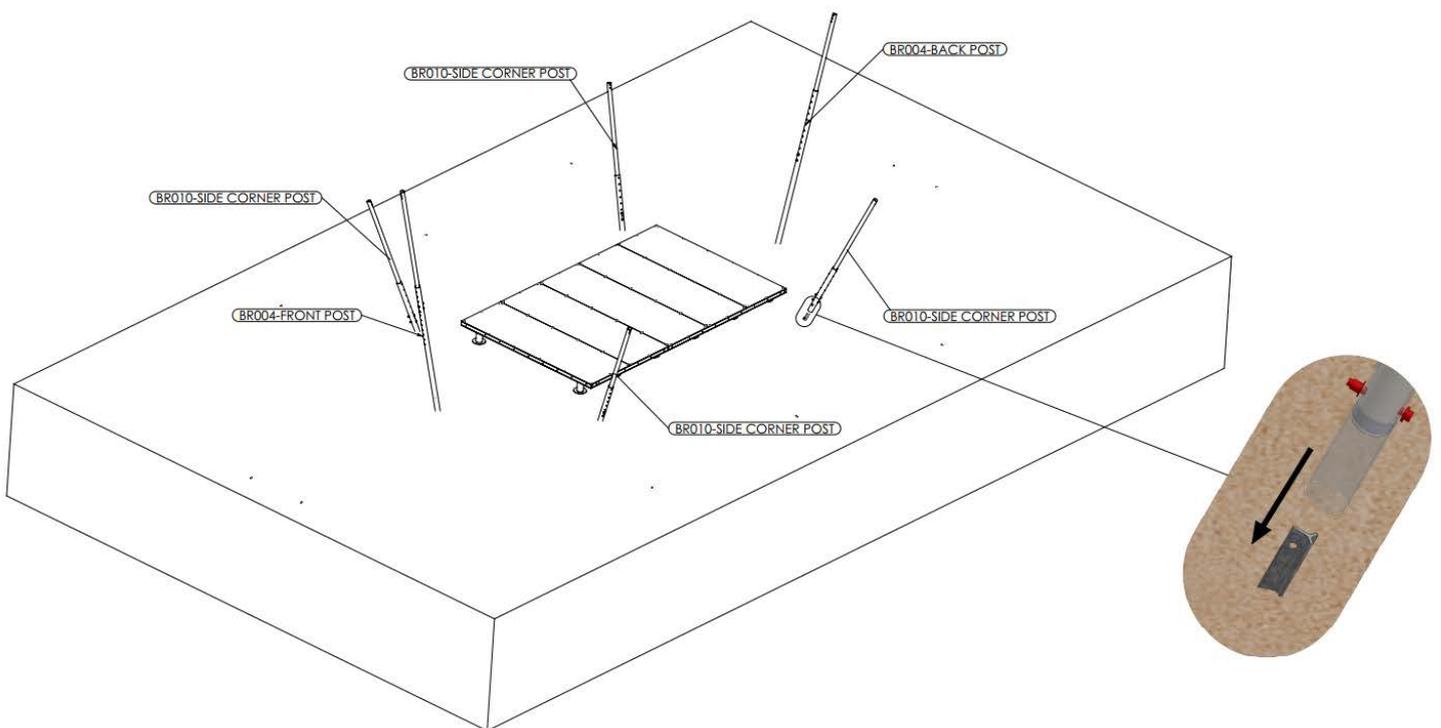


Figure 7: Arrangement of posts around the flooring system

2. Check each post to ensure the height from the ground matches the dimensions shown in Figure 8.
3. Connect all tension ropes that link the posts to the ground, but do not tension them until the PVC installation step (Figure 9).



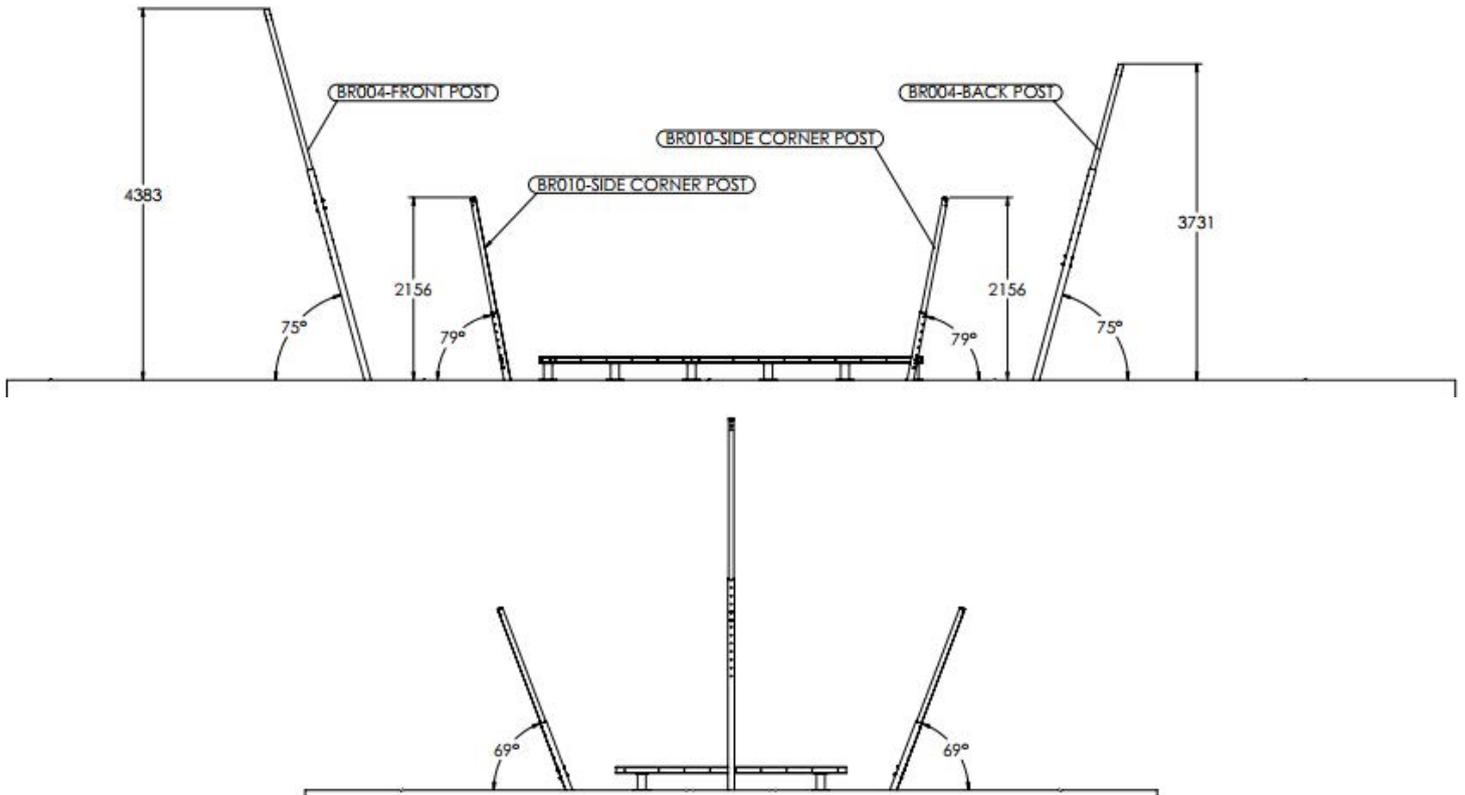


Figure 8: posts height

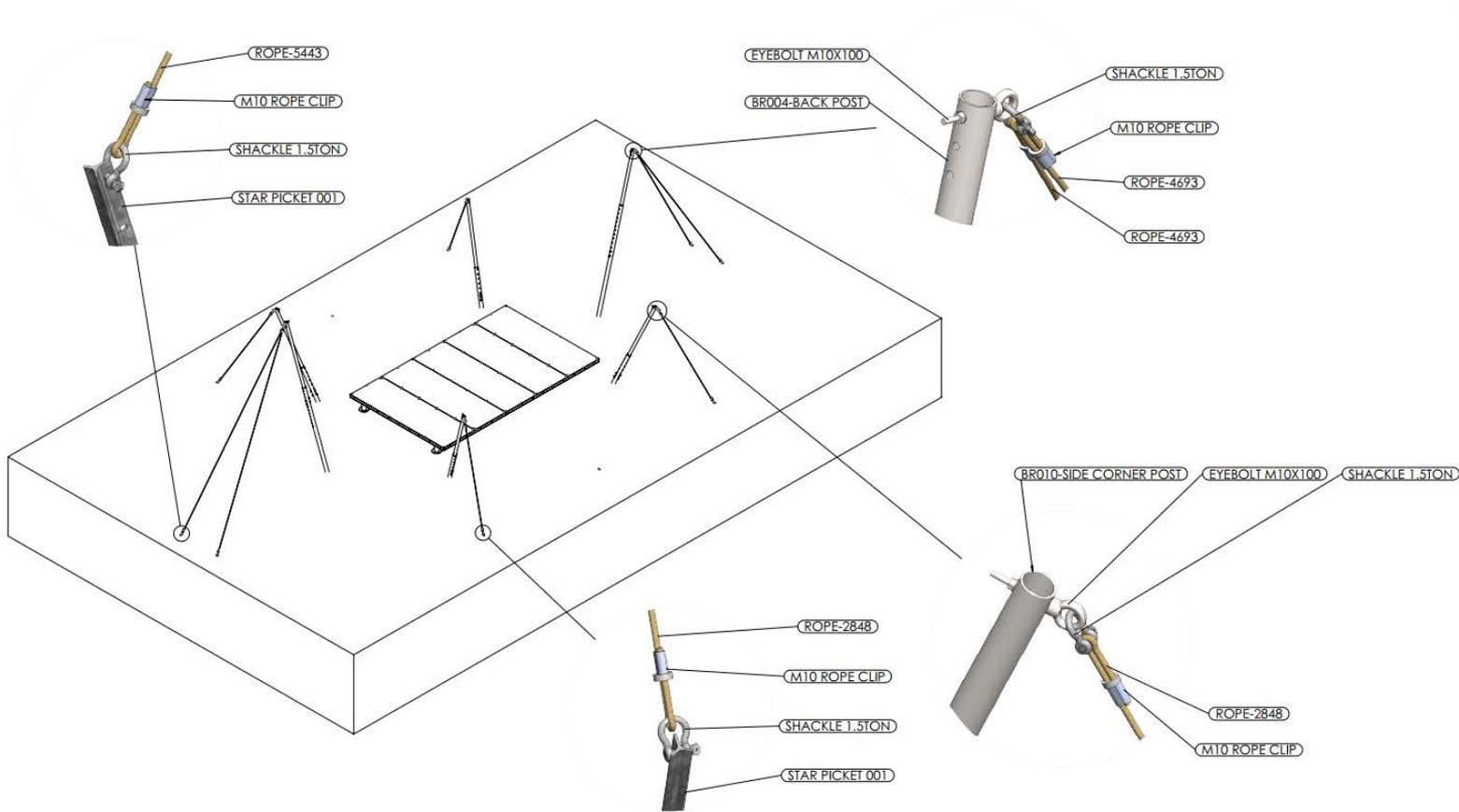


Figure 9: Post and Tension Rope Connection Details



Step 4

PVC ROOF INSTALLATION

1. Position the PVC roof membrane over the PS W001 strap (strap helps hold roof shape)- Figure 10.

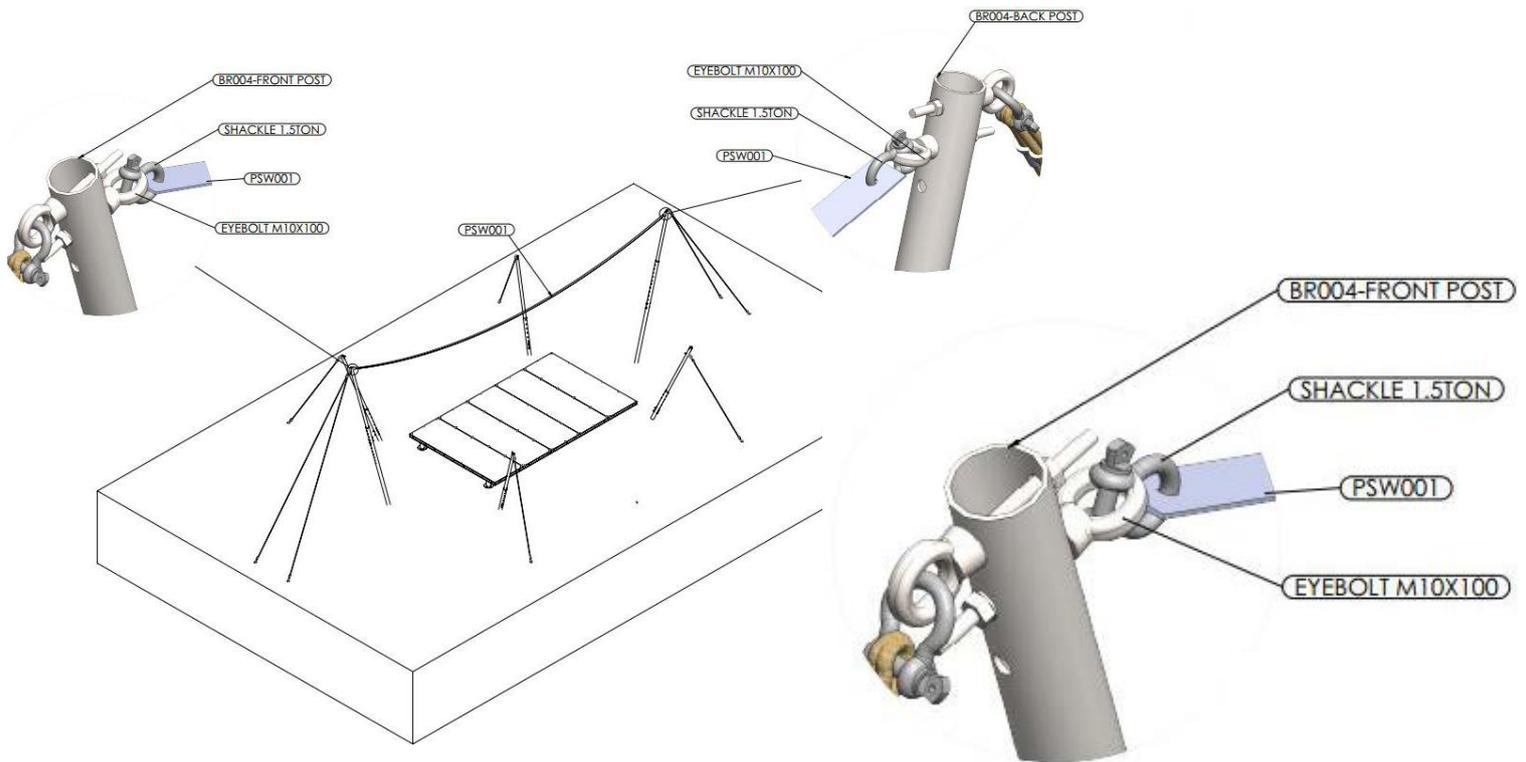
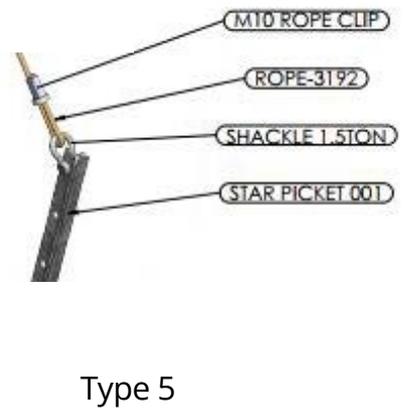
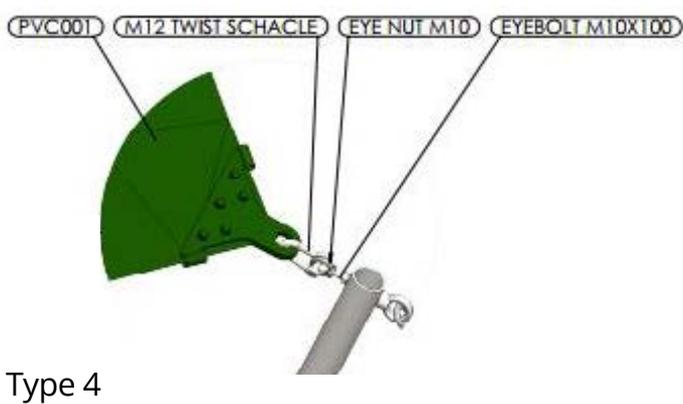
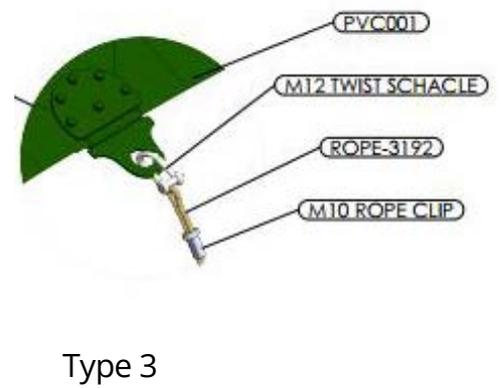
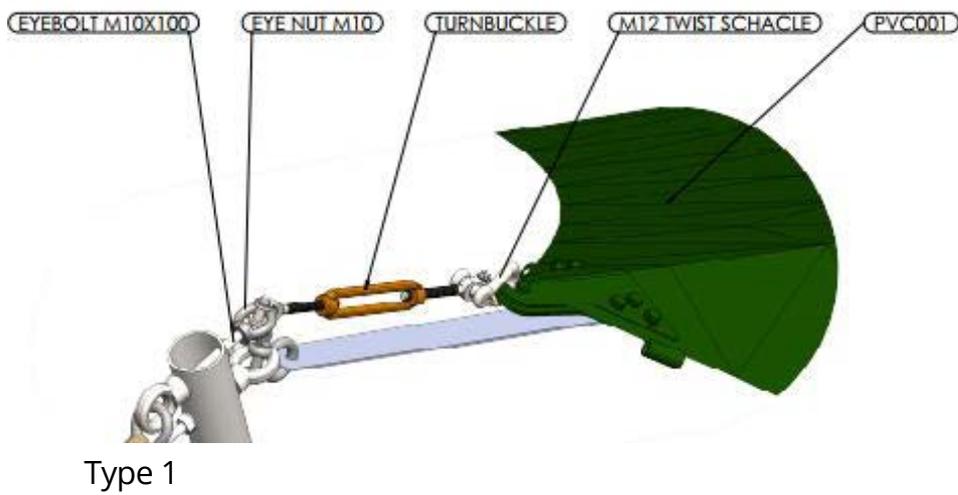
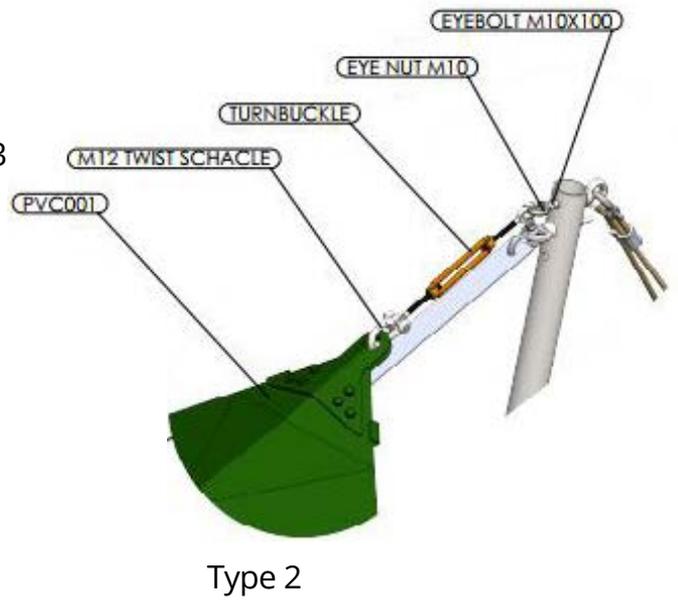
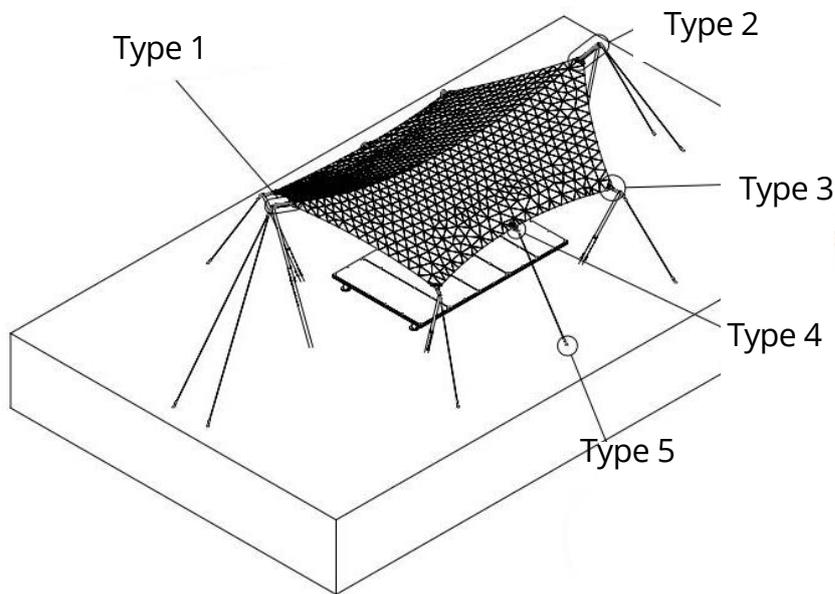


Figure 10: PVC Strap Installation

2. Lift the prepared roof PVC membrane into position and connect it to the posts using the preinstalled steel plates and specified hardware as shown below.
3. Ensure the PVC is evenly supported on all sides and correctly seated at all connection points, using the others posts for it.



4. Secure all connections temporarily without applying the final tension. The turnbuckles should remain loose at this stage to allow for final adjustment later.



Step 5

CANVAS INSTALLATION

1. Start at the centre of the structure. Secure the canvas to the PVC roof first using the tension rope connection.
2. Once the canvas is connected to the PVC, fix the canvas base to the floor using 4.8 × 25 flanged hex wood screws. (Figure 12).
3. Doors and windows are fully symmetrical in relation to the canvas. When positioning the canvas, the pocket shown in Figure 12 must be aligned with the middle plate of the PVC, providing a connection area for the post inside the canvas.

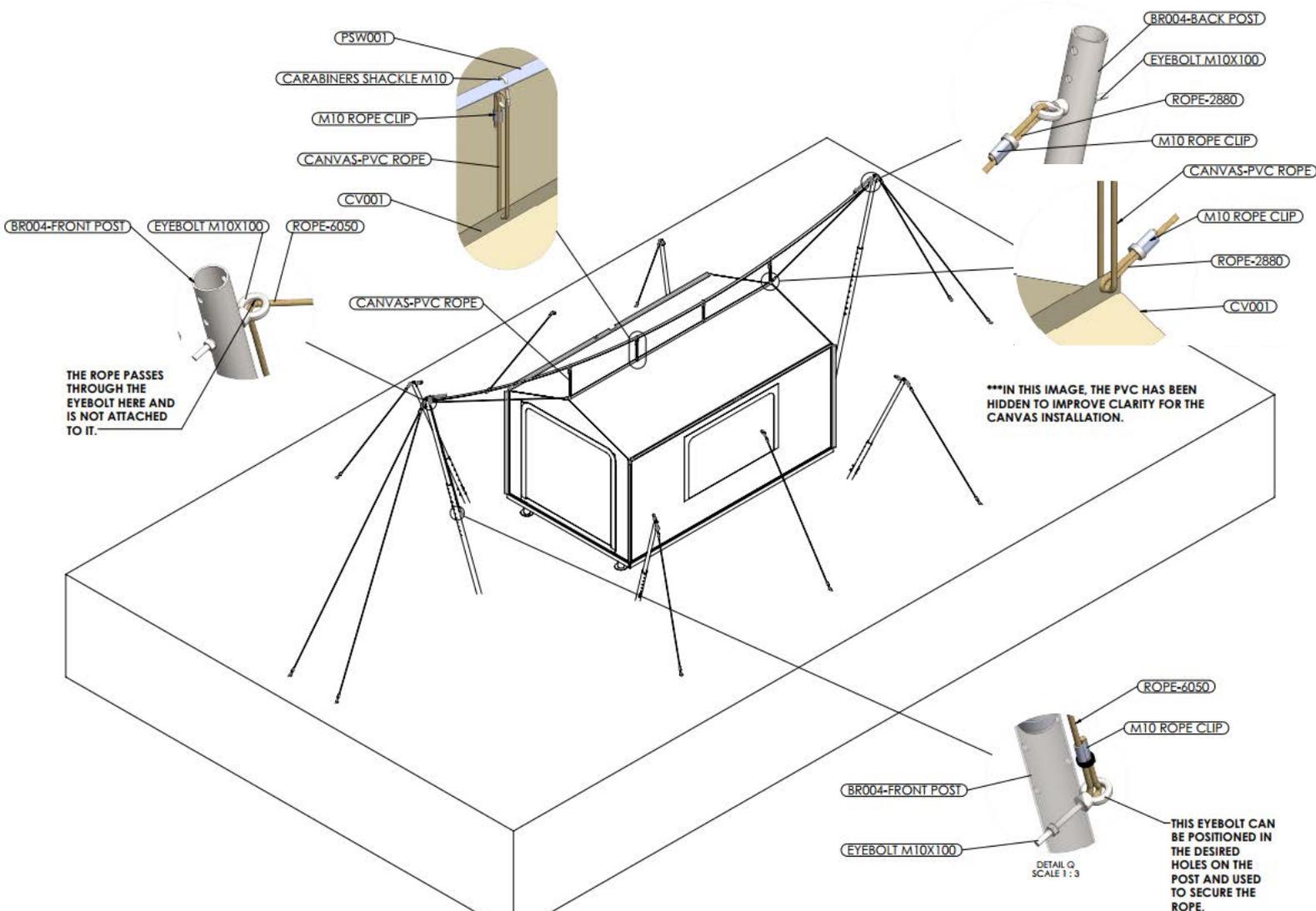


Figure 12: Canvas installation



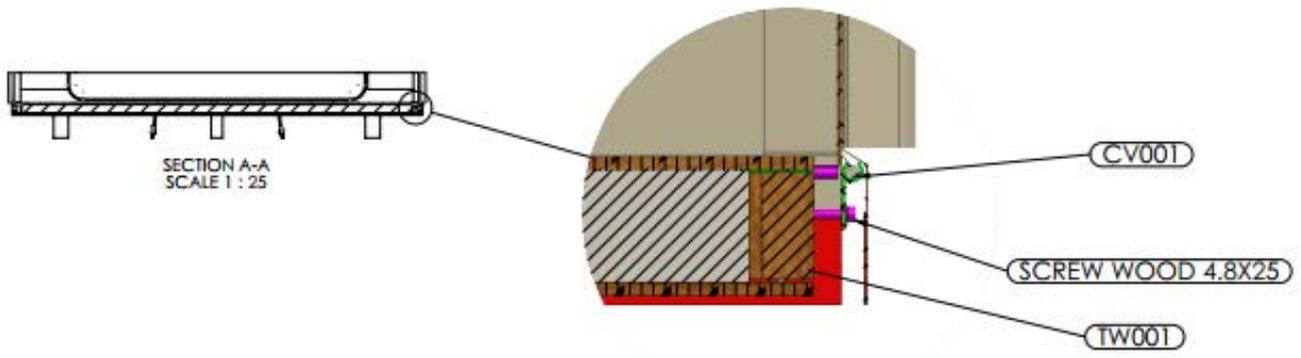
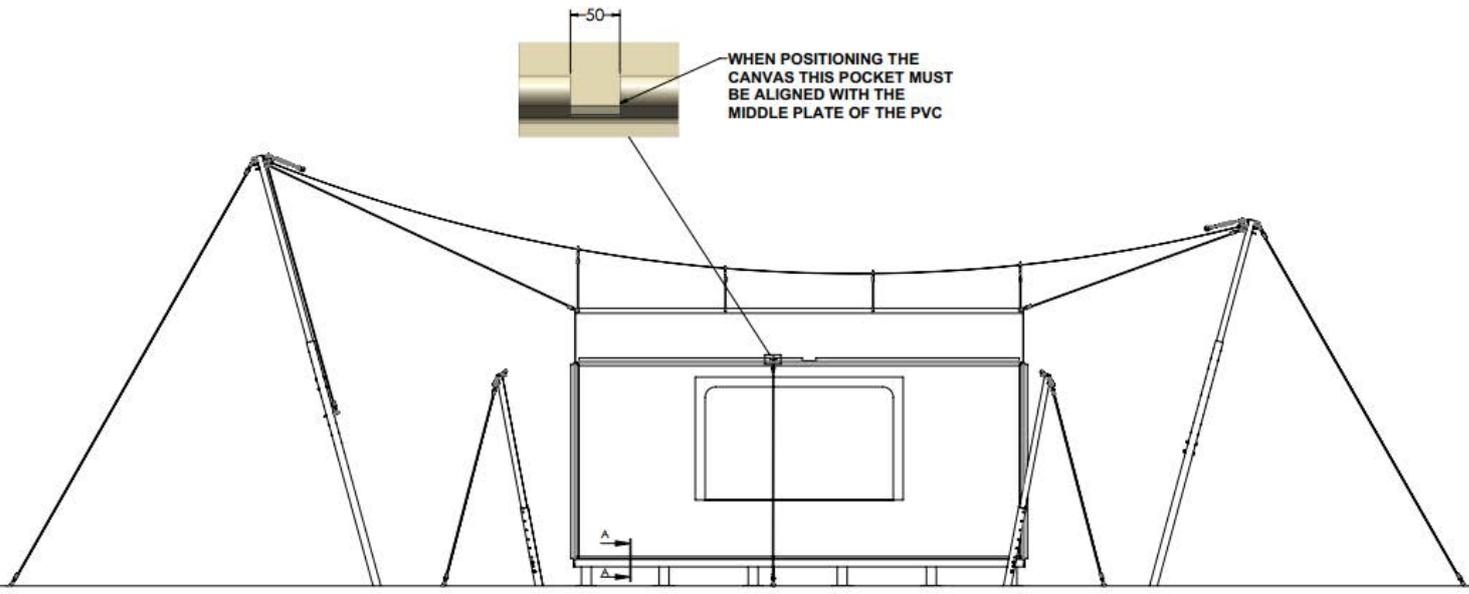


Figure 12: Canvas installation



Step 6

CANVAS POSTS INSTALLATION

1. Install four M743 guide pipes at the marked corner locations (Figure 13). Each pipe must penetrate the ground by a minimum of 300 mm to ensure stability.
2. Check that all guide pipes are vertical and correctly aligned before proceeding.
3. Insert the vertical posts (M710) into the corresponding canvas pockets.
4. Position each vertical post over its respective guide pipe and secure it using TEK screws as specified.
5. Insert the horizontal posts (BR703) into the designated canvas pockets along the perimeter.
6. At each corner, install the joint member (M311) to connect the vertical and horizontal posts inside the canvas pocket, forming a rigid corner frame.
7. Verify that the frame is square, properly aligned, and that the canvas remains evenly positioned.

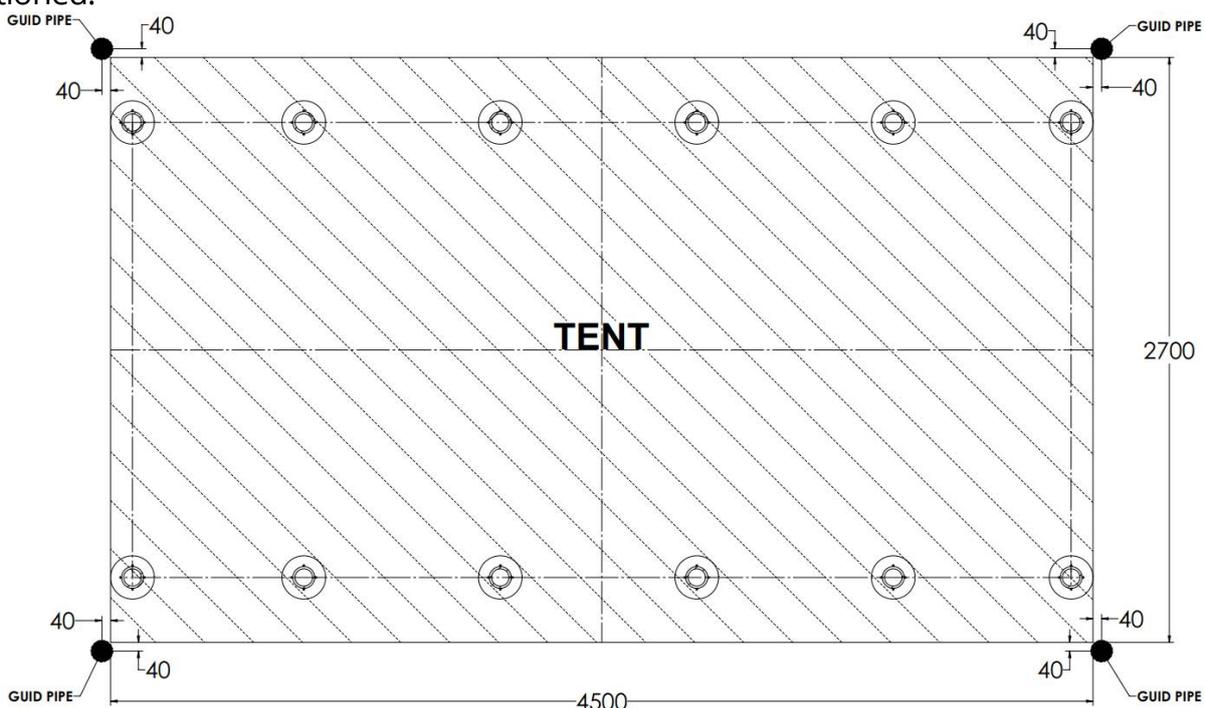


Figure 13: Position of guide pipes relative to tent footprint



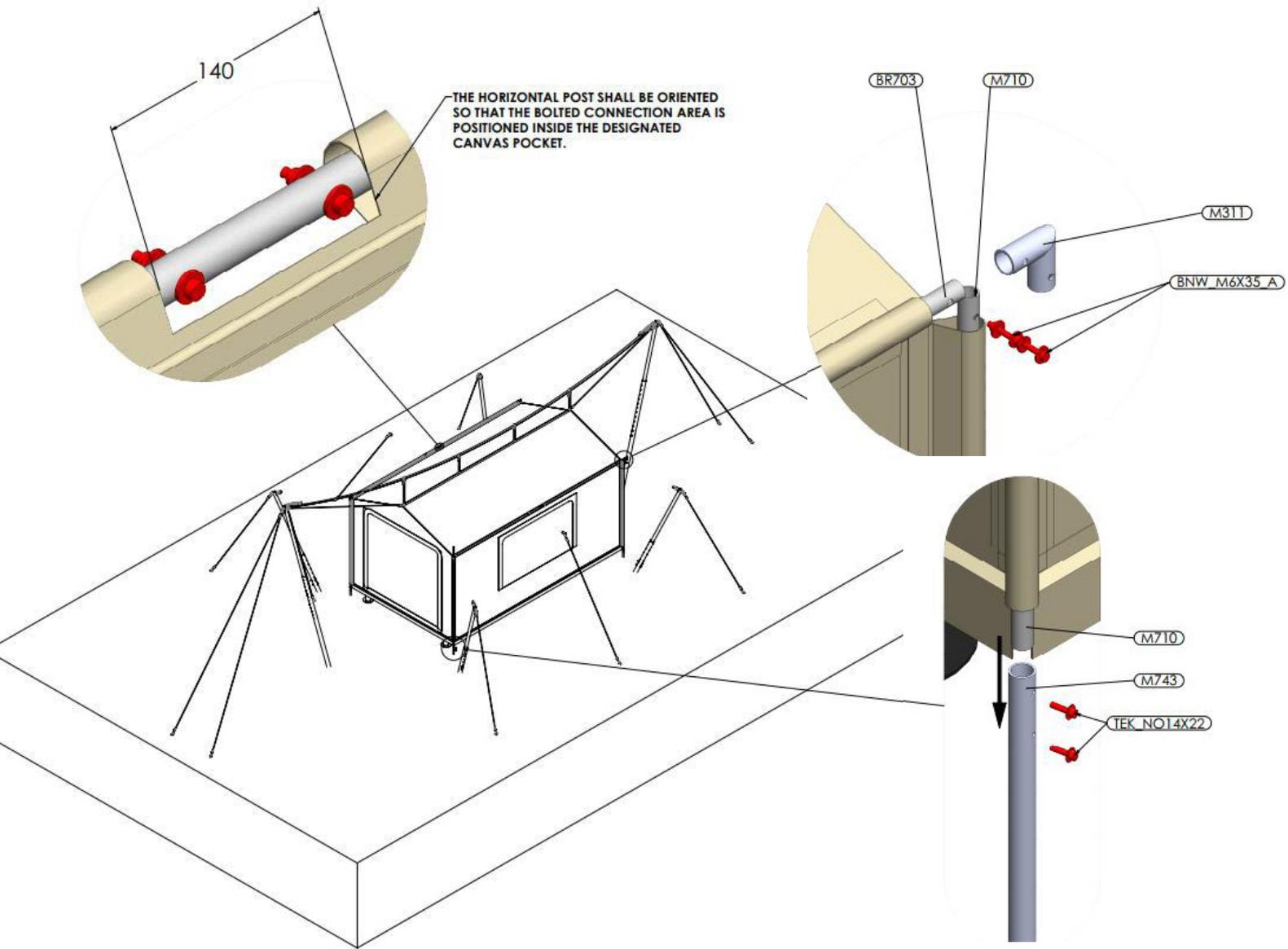


Figure 14: Canvas posts installation



Step 7

CANVAS POSTS TENSIONING

1. Connect the rope to the designated connection points on each post as detailed in the Figure 15.
2. Gradually and evenly apply tension to the rope around the perimeter to shape and support the canvas, avoiding localized overstressing or distortion.
3. Perform a final inspection to confirm all fixings are secure, the canvas is uniformly tensioned, and the structure is correctly aligned.

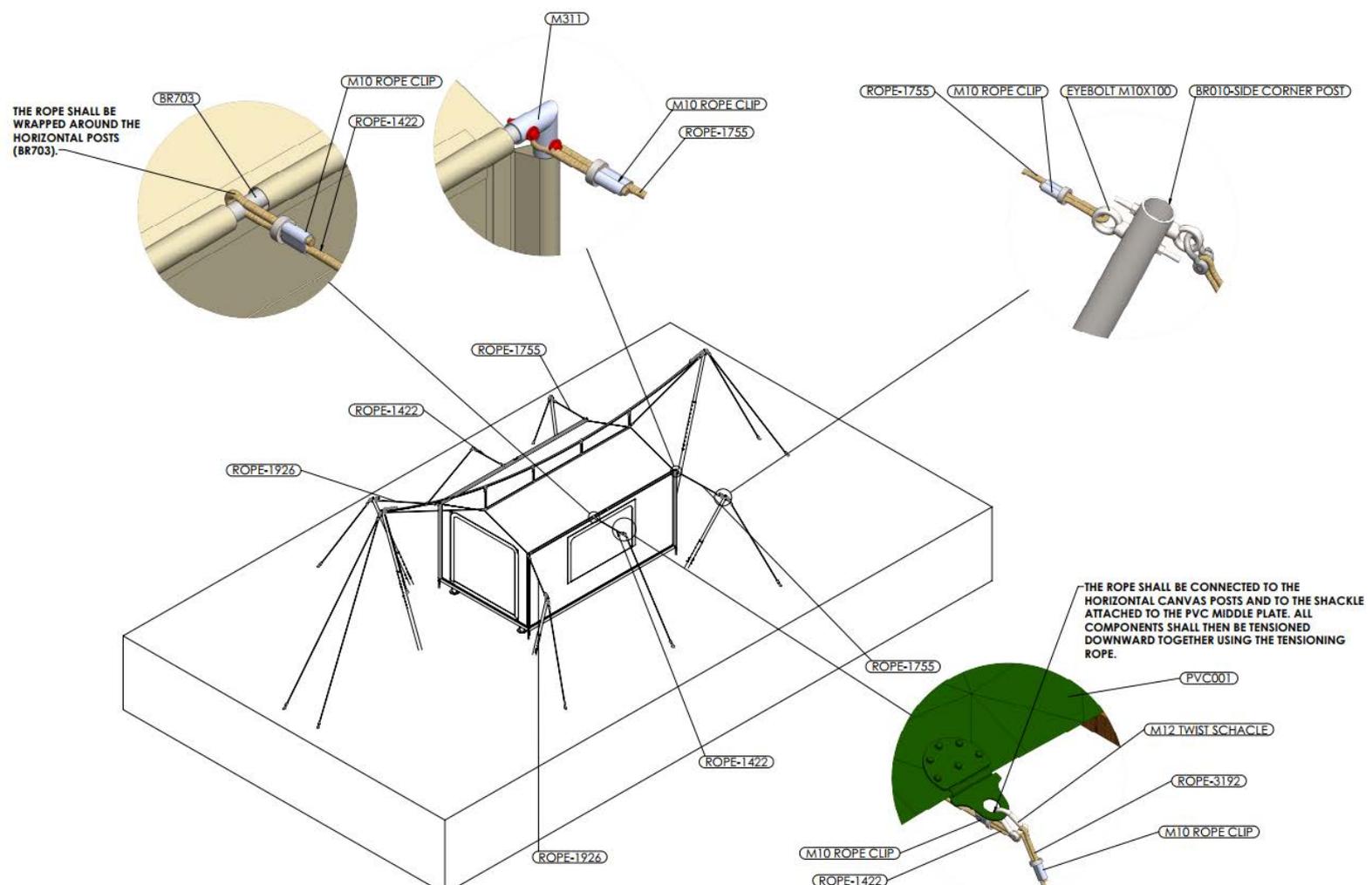


Figure 15: Canvas Post Tensioning



Step 8

FINAL TENSIONING AND STRUCTURAL ADJUSTMENT

- 1.** Confirm that all PVC components and canvas membranes are fully installed and correctly positioned.
- 2.** Begin tensioning all wire assemblies, ropes, turnbuckles, and mooring connections gradually.
- 3.** Apply tension symmetrically, working evenly around the structure to maintain balance.
- 4.** Continuously check that all posts remain plumb, the membrane stays properly aligned, and the overall geometry is maintained during tensioning.
- 5.** Make incremental adjustments as required to achieve the correct shape and uniform tension.
- 6.** Once the final geometry and alignment are achieved, fully tighten all structural fixings, turnbuckles, and locking devices.
- 7.** Perform a final inspection to ensure all components are secure and properly tensioned.



Completion

FINAL INSPECTION AND COMPLETION

- 1.** Verify that all anchors, fixings, and tensioning systems are correctly installed, secured, and locked in place.
- 2.** Confirm that the membranes are evenly tensioned, free from twists, wrinkles, or abnormal stress concentrations.
- 3.** Check that the floor system is level, fully supported, and securely fixed.
- 4.** Confirm that the installation meets the specified requirements and is complete and ready for handover.
- 5.** Take photos and send them to your closest Eco Structures contact or rapident@ecostructures.com



Frequently Asked

PVC ROOF

Nato Olive



CANVAS

Sand



LIMITED WARRANTY

Painted Structural Steel
5 Years Limited Warranty

Canvas & PVC
4 Year Limited Warranty

Not designed for installation beyond 5 months.

Retensioning is required every 4 weeks.

Failure to meet these requirements will void the warranty.

GROUND CONDITIONS

The site chosen for install must be a level site. Each Rapid Tent has 100mm of adjustment in the event of a slightly unlevel site.

BED SIZE

2 Single Beds
Double Bed
Queen Bed

REPLACEMENT PARTS

We offer a replacement on:
- The complete canvas shell (all 4 sides and ceiling)
- PVC Roof





ECO STRUCTURES

LUXURY EXPERIENTIAL ACCOMMODATION

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