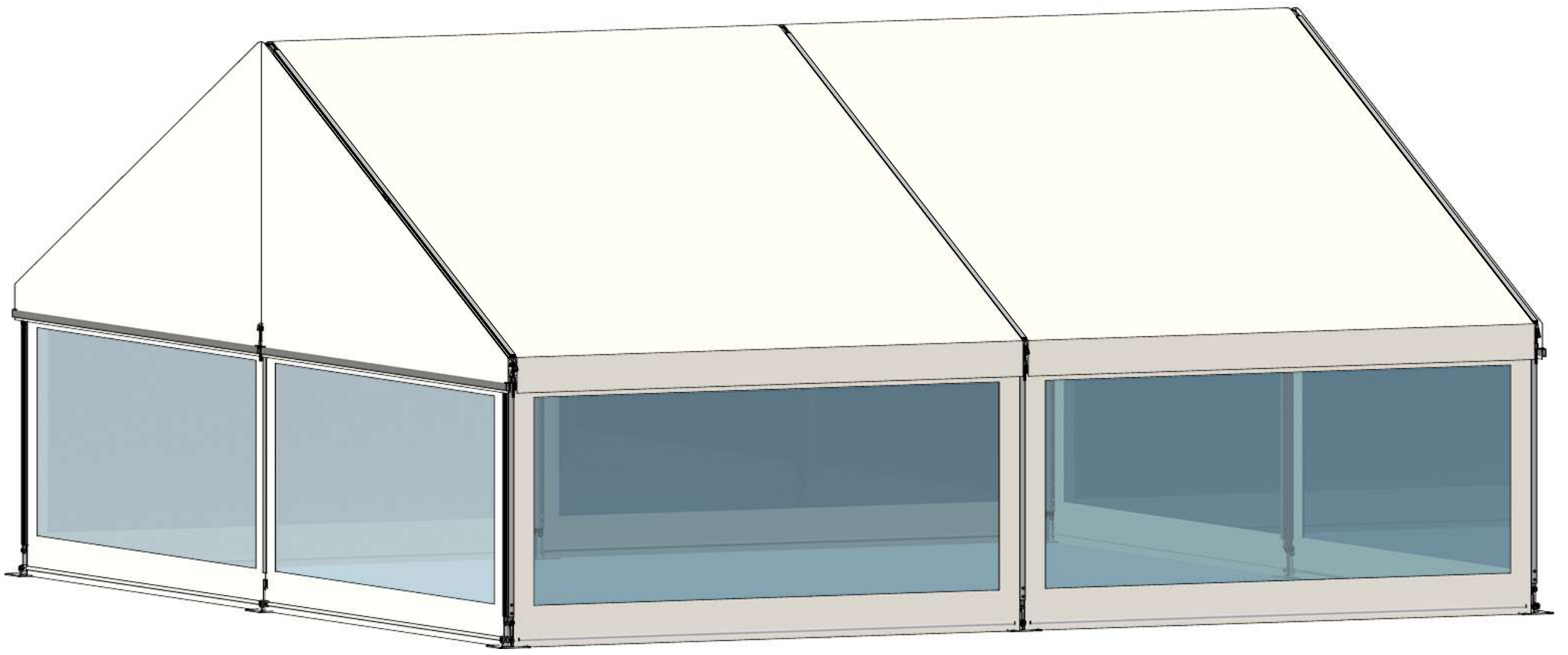
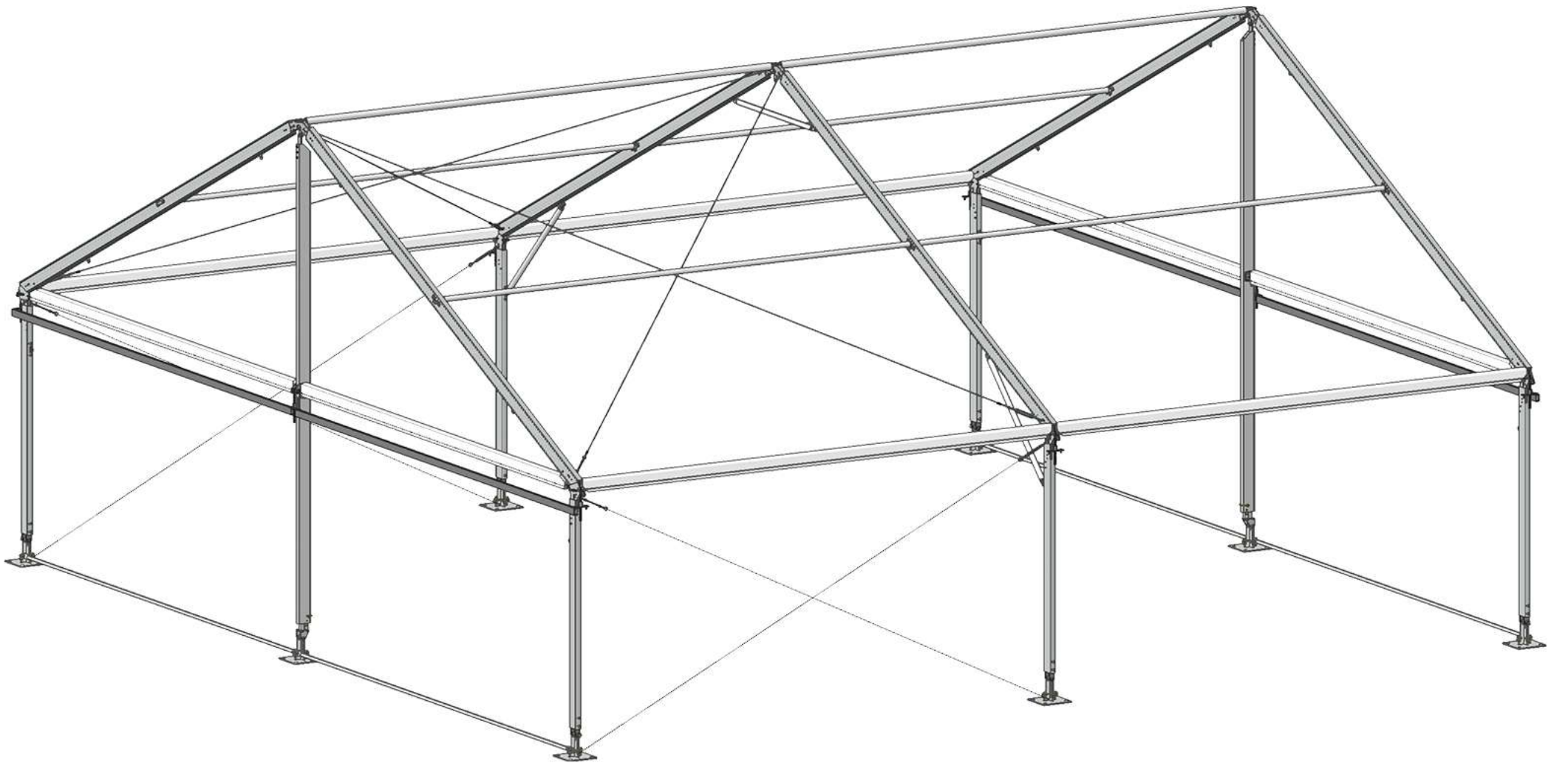
10m Square Frame Marquee

Assembly Manual

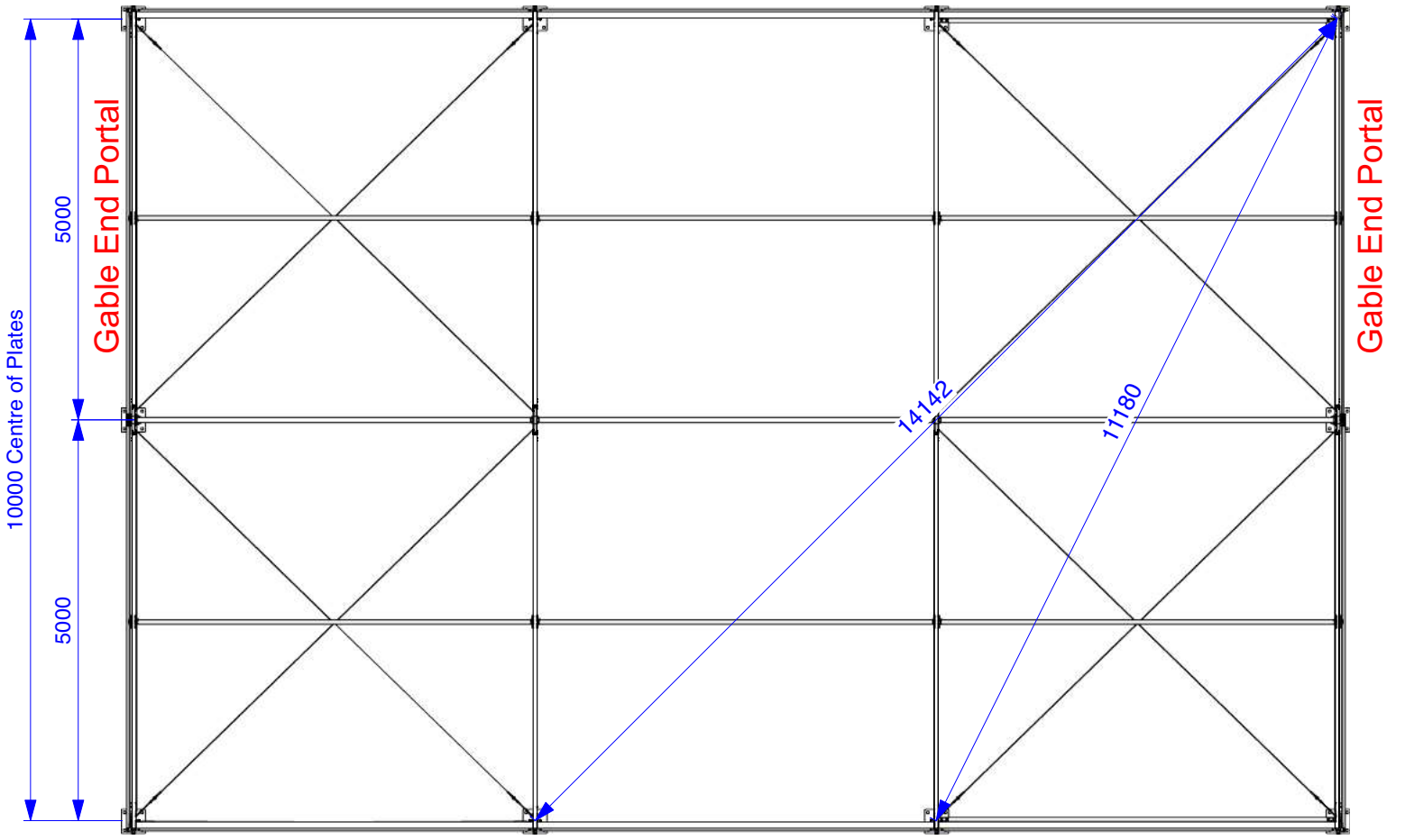
baytex





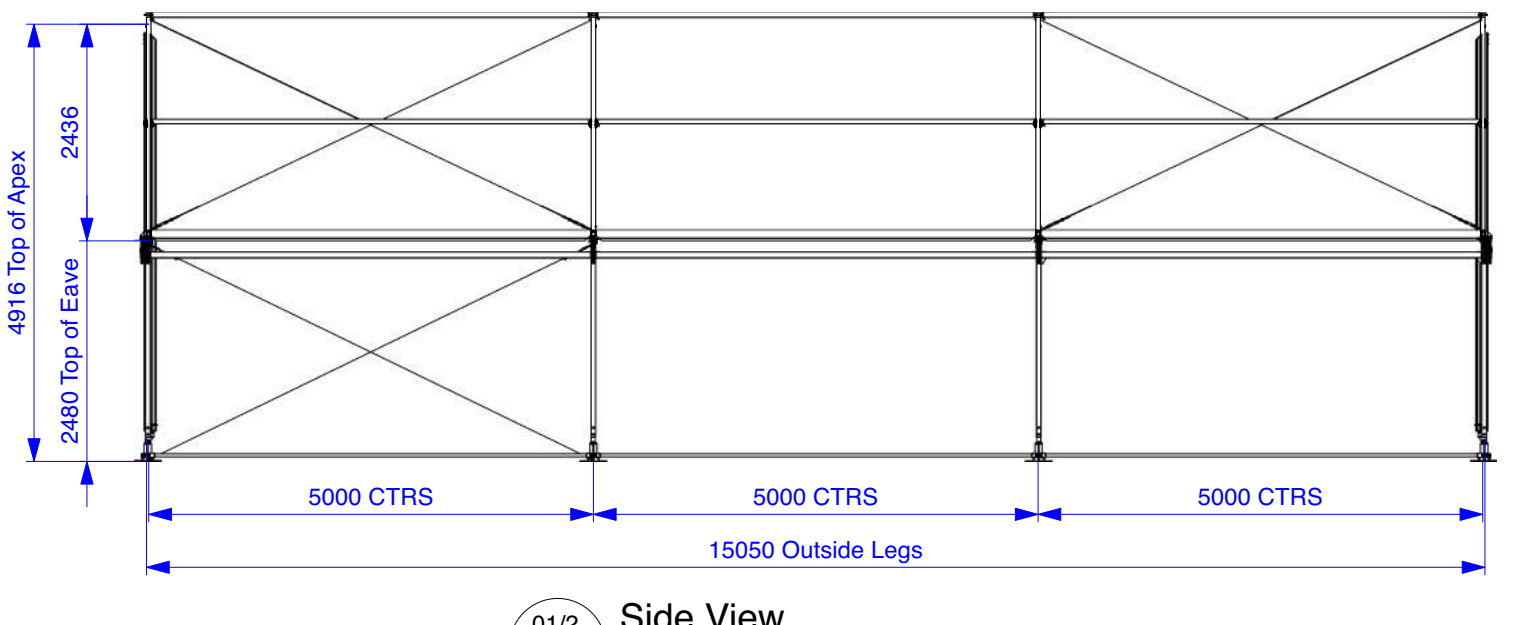
10m Square Frame Marquee

Plan and Elevations



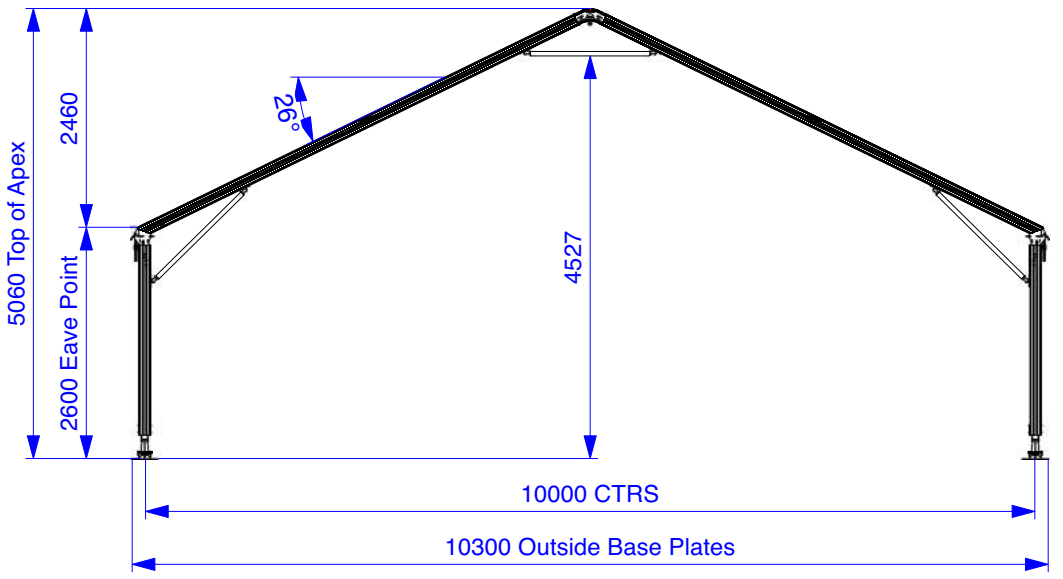
01/1 Plan View

Scale 1:85



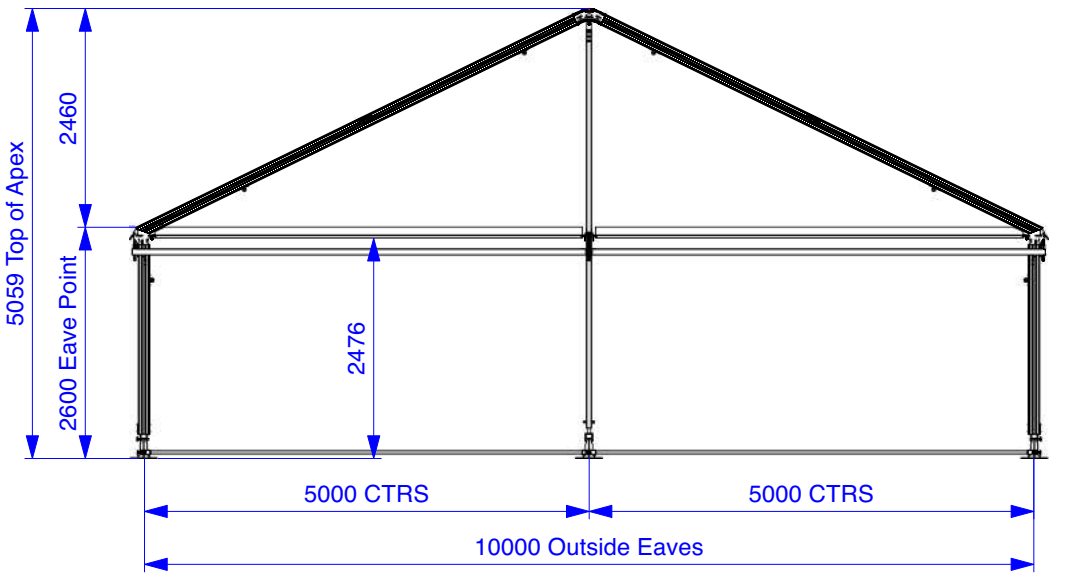
01/2 Side View

Scale 1:85



01/3 Mid Portal

Scale 1:85



01/4 Gable End Portal

Scale 1:85

10m Square Frame Marquee

Parts Lists

End Bays Hardware List - On Ground, Cable Bay Brace

Ref.	Part Name	Qty	Part Number
1	Apex Connector - Channel Tube 4Track 26°	3	80.700
2	Shoulder Fitting 26°	6	80.701
3	Tensioner Set (bolt to Shoulder & GE Upright)	8	
a	- (x1) 16mm Reid Bar Nut		-
b	- (x1) Tension Bar Bracket		80.712
c	- (x1) Tensioner Reid Bar		80.715
4	10m Side Rafter - Channel Tube 4Track	6	80.510.01
5	2.6m Leg	6	80.703
6	Eave Purlin 5m	4	80.708
7	Ø50 Intermediate Purlin 5m	4	80.707
8	Ø65 Ridge Purlin 5m	2	80.706
9	10m Gable End Upright	2	
a	- (x1) 10m Gable Upright Leg, and		80.510.02
b	- (x1) Gable Base Insert Fitting		80.711
c	- (x1) Tractor Clip (AG272)		-
10	10m Gable End Eave Purlin	4	80.510.03
11	Apex Brace / Knee Brace	3	80.705
12	Base Rail 5m	8	72.704
13	5m Mid Tension Bar	4	72.715
14	10m Gable End Tension Bar	4	80.510.05
15	Roof Brace Cable (10m x 5m Bay)	8	80.510.10
16	Wall Brace Cable (5m Bay x 2.6m Leg)	8	80.727
17	Base Fitting (standard on ground)	8	80.716
18	Base Pin	8	80.732

End Bays Fabric List - All Plain

A	10m x 5m Roof Mid	2	80.310.10
B	10m Gable End Infill Pair of Ends (4 pieces)	1	80.310.70
C	5m x 4.6m Side Wall	4	80.300.01
D	5m x 4.6m Gable End Wall Left Hand	2	80.310.20
E	5m x 4.6m Gable End Wall Right Hand	2	80.310.25

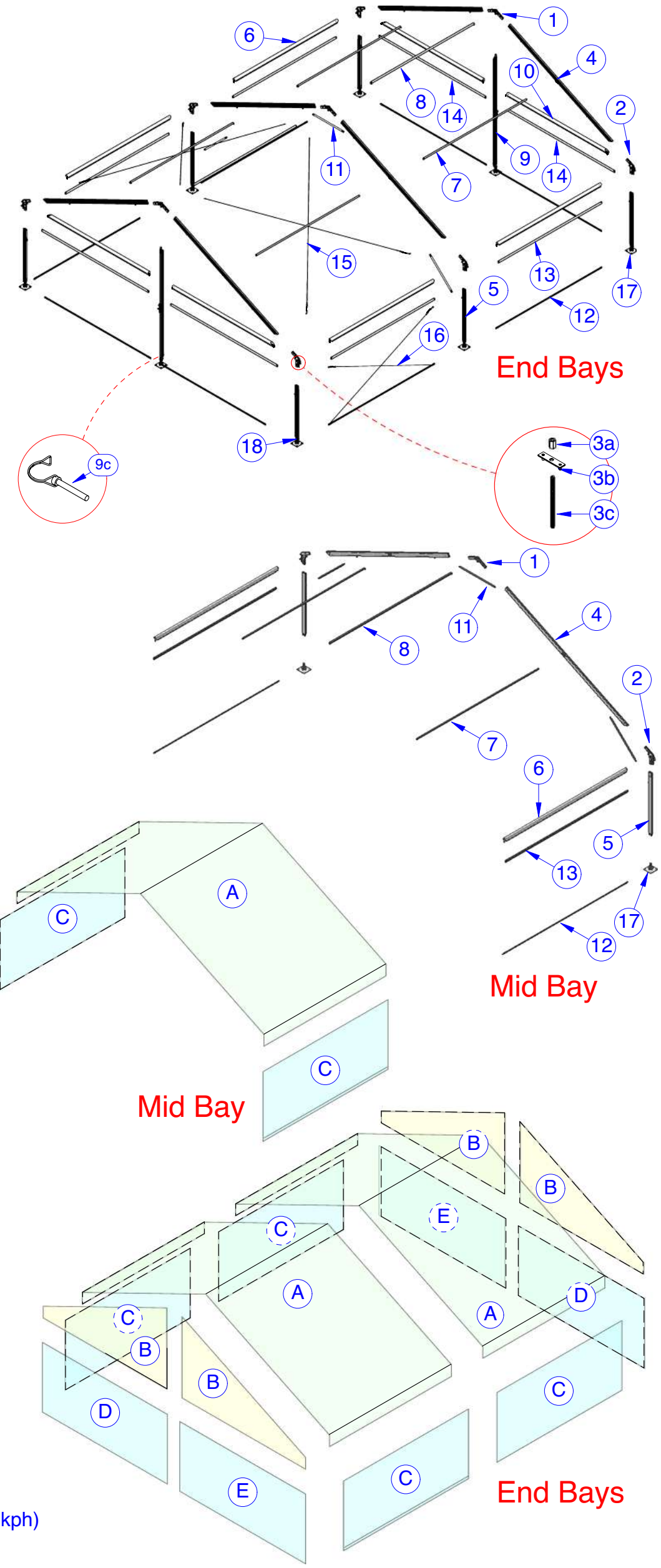
Mid Bay Hardware List

(Bay Quantity = 1)

Ref.	Part Name	Qty	Part Number
1	Apex Connector - Channel Tube 4Track 26°	1	80.700
2	Shoulder Fitting 26°	2	80.701
3	Tensioner Set (bolt to Shoulder & GE Upright)	2	
a	- (x1) 16mm Reid Bar Nut		
b	- (x1) Tension Bar Bracket		80.712
c	- (x1) Tensioner Reid Bar		80.715
4	10m Side Rafter - Channel Tube 4Track	2	80.510.01
5	2.6m Leg	2	80.703
6	Eave Purlin 5m	2	80.708
7	Ø50 Intermediate Purlin 5m	2	80.707
8	Ø65 Ridge Purlin 5m	1	80.706
11	Apex Brace / Knee brace	3	80.705
12	Base Rail 5m	2	72.704
13	5m Mid Tension Bar	2	72.715
15	Roof Brace Cable (10m x 5m Bay)	0	80.510.10
16	Wall Brace Cable (5m Bay x 2.6m Leg)	0	80.727
17	Base Fitting (standard on ground)	2	80.716
18	Base Pin	2	80.732

Mid Bay Fabric List - All Plain

A	10m x 5m Roof Mid	1	80.310.10
C	5m x 4.6m Side Wall	2	80.300.01



Options -
- On Flooring. - Replace Base Fittings for On Floor Base Fittings
  - x2 LH x2 RH On Floor End, x2 On Floor Gable Gable

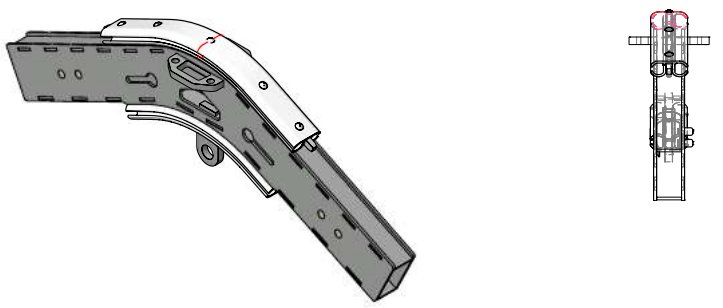
- Bay Brace Strut. - Replace pair of cross Wall Brace Cables (wind up to 75kph)

- Clear Fabric Panels. - Replace as desired

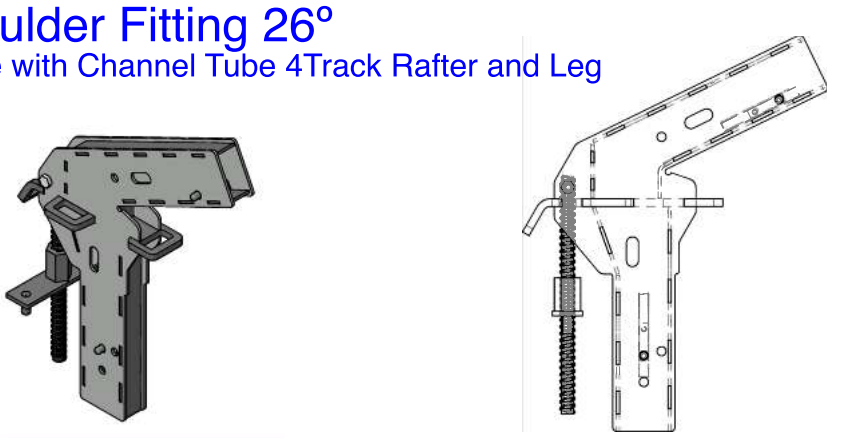
10m Square Frame Marquee

Parts Identification

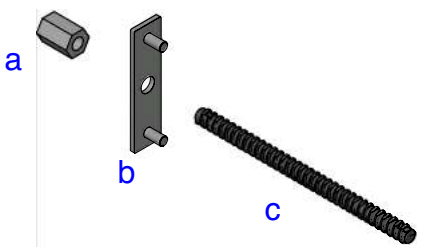
1. Apex Connector - Channel Tube 4Track 26°
-To use with Channel Tube 4Track Rafter



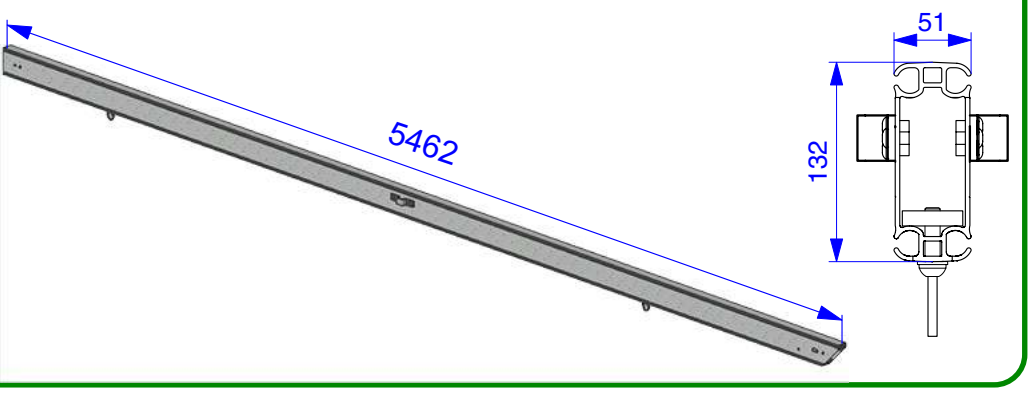
2. Shoulder Fitting 26°
-To use with Channel Tube 4Track Rafter and Leg



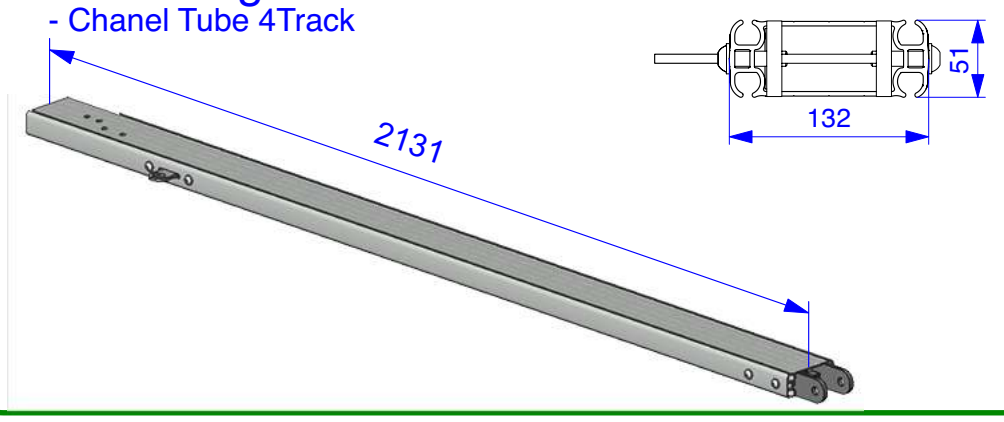
3. Tensioner Set
-Included with Shoulder and Gable Uprights
-(x1) 16mm Reid Bar Nut, (x1) Tension Bar Bracket,
(x1) Tensioner Reid Bar



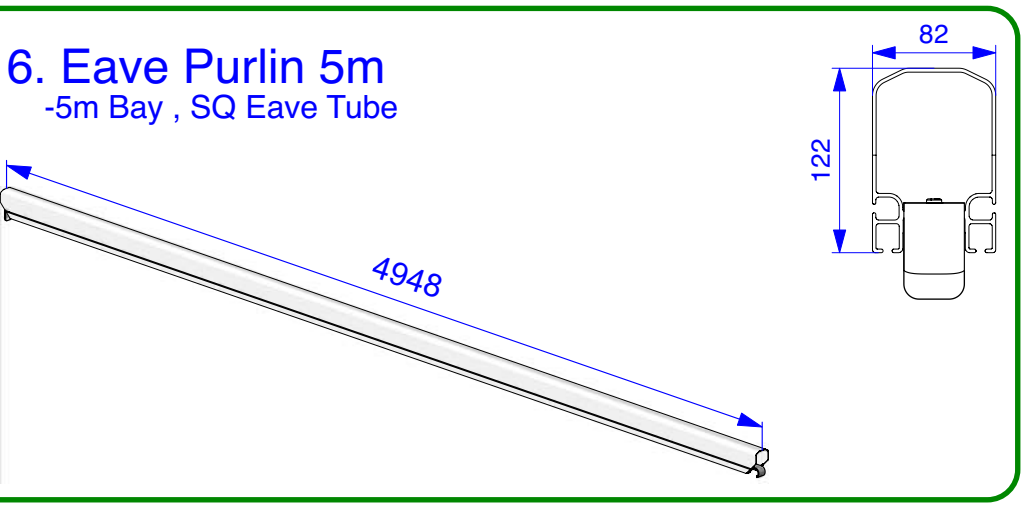
4. 10m Side Rafter - Channel Tube 4Track



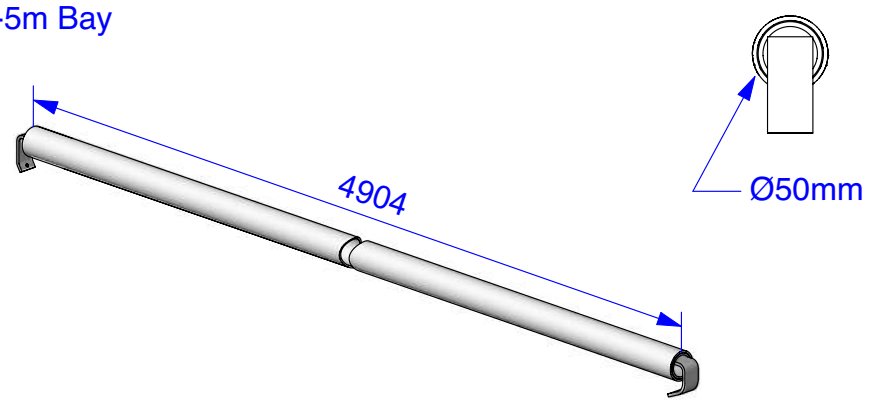
5. 2.6m Leg
- Chanel Tube 4Track



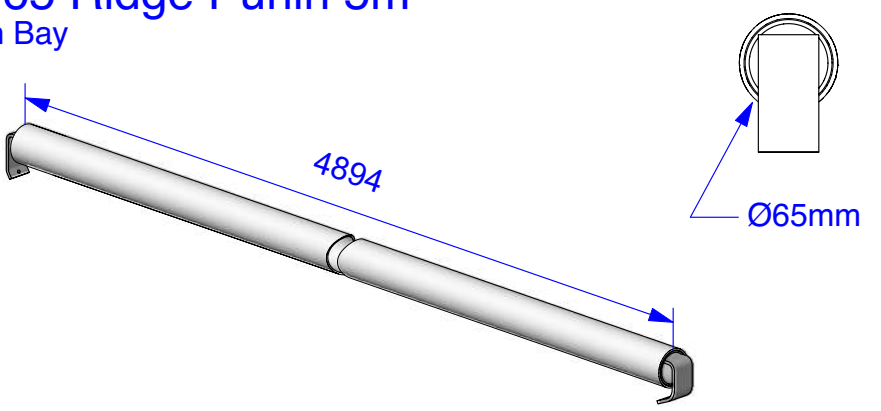
6. Eave Purlin 5m
-5m Bay , SQ Eave Tube



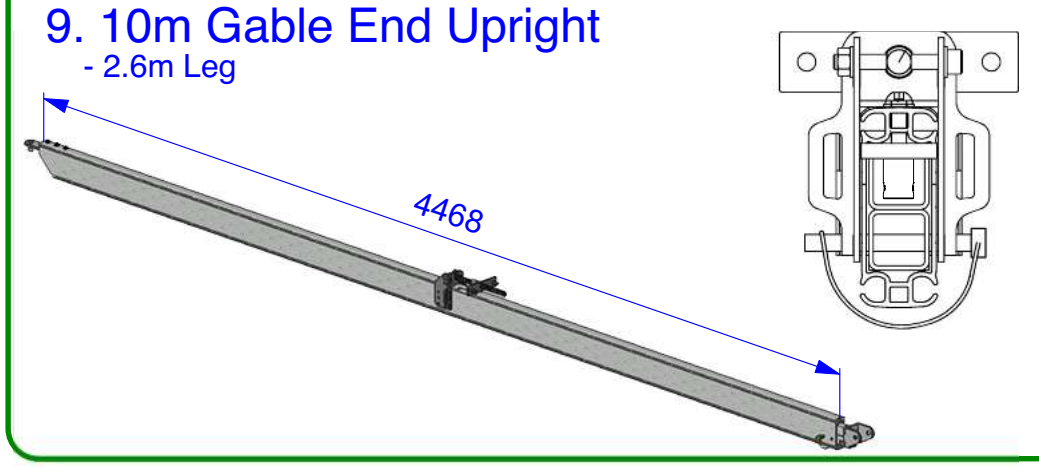
7. Ø50 Intermediate Purlin 5m
-5m Bay



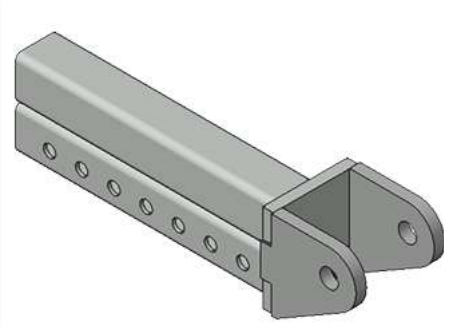
8. Ø65 Ridge Purlin 5m
-5m Bay



9. 10m Gable End Upright
- 2.6m Leg



9b. Gable Upright Base Insert Fitting
-Included with Gable Upright

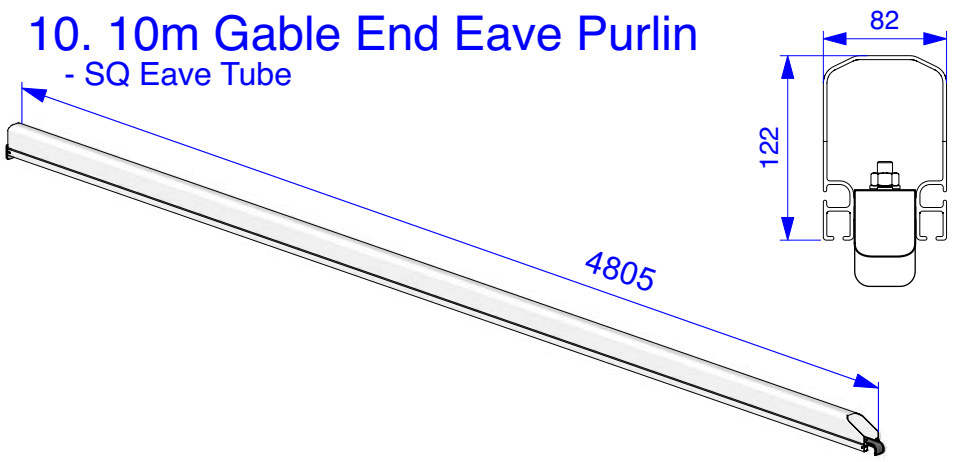


10m Square Frame Marquee

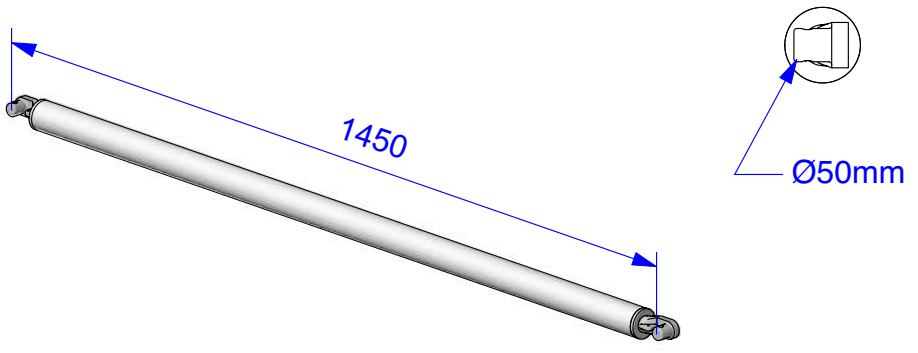
Parts Identification

9c. Tractor Pin
-Included with Gable Upright

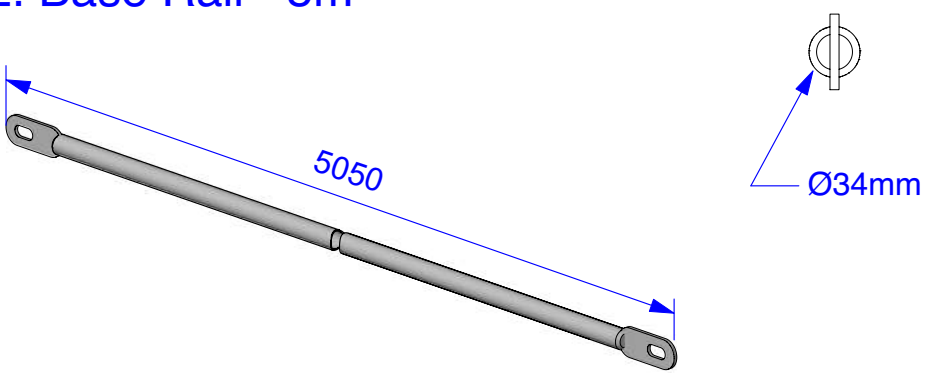
10. 10m Gable End Eave Purlin
- SQ Eave Tube



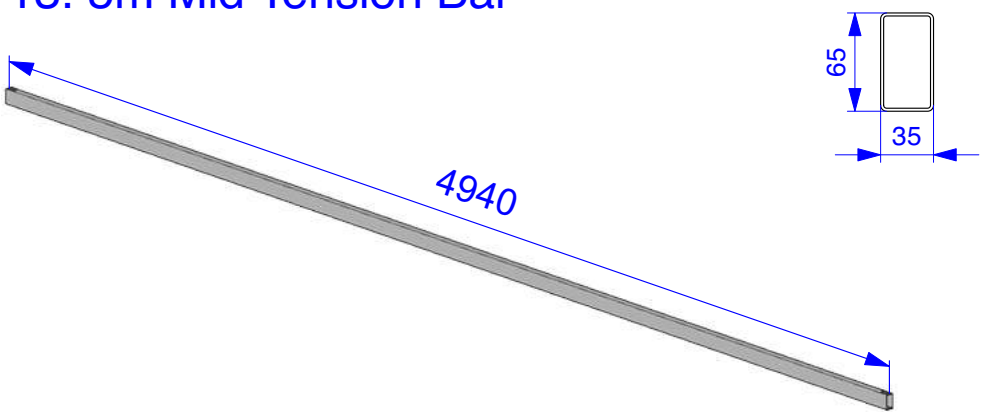
11. 10m Apex Brace / Knee Brace



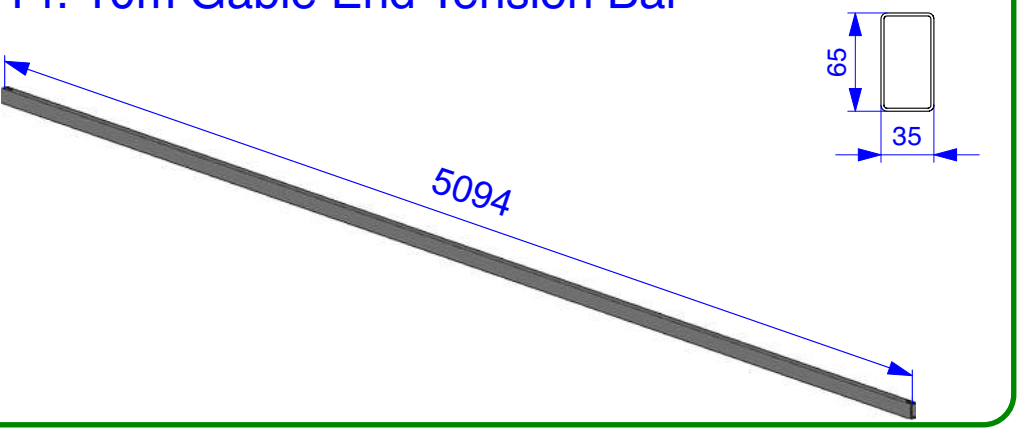
12. Base Rail - 5m



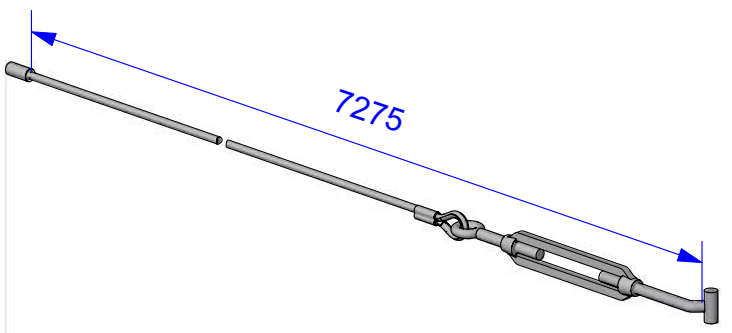
13. 5m Mid Tension Bar



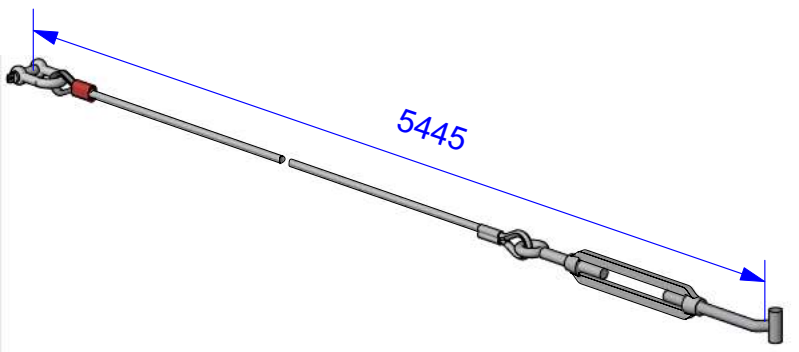
14. 10m Gable End Tension Bar



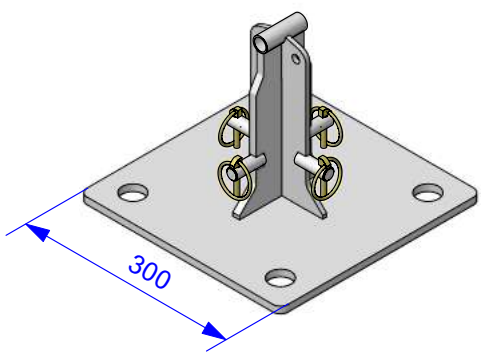
15. Roof Brace Cable (10m x 5m Bay)
- Ø6mm Cable with Turnbuckle and T lug

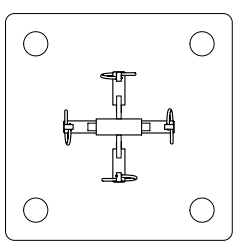


16. Wall Brace Cable Set (5m Bay x 2.6m Leg)
- Ø6mm Cable with Shackle,Turnbuckle and T lug



17. Base Fitting (standard on ground)
- To use with Chanel Tube 4Track Leg



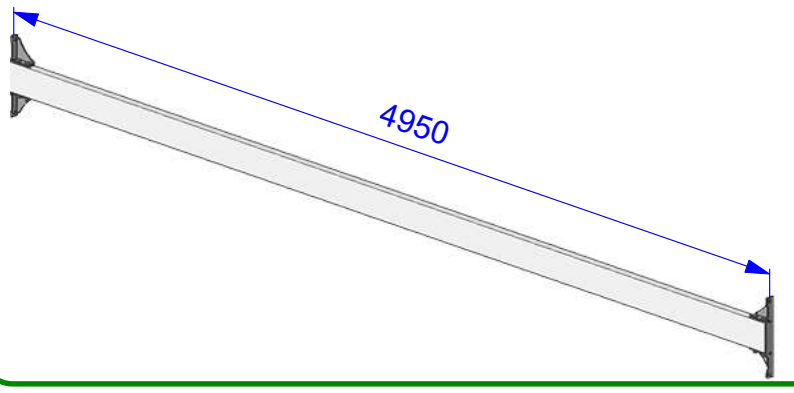


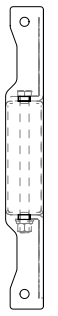
18. Base Pin
- To use with All Base Fittings

10m Square Frame Marquee

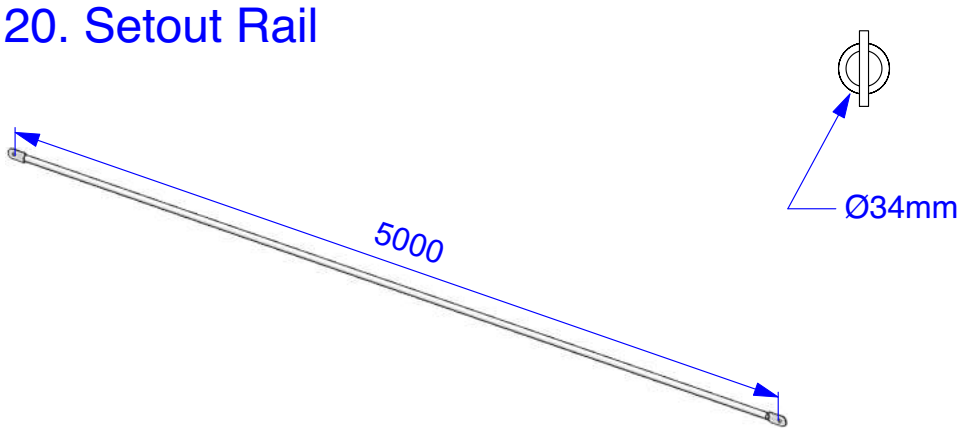
Parts Identification

19. Bay Brace Strut



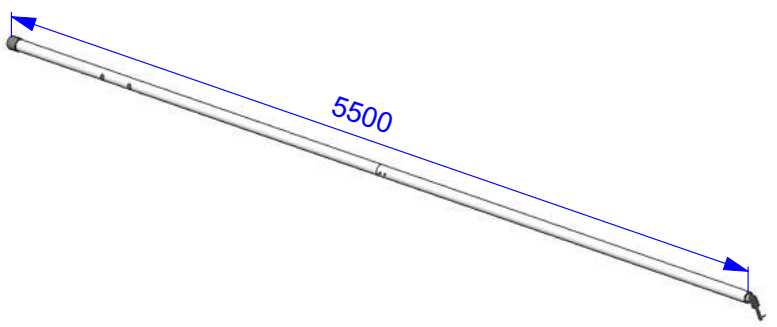


20. Setout Rail

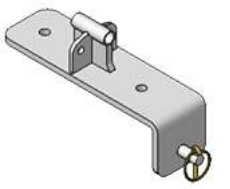


21. Push Pole

- 2 piece , Ø65 Alloy

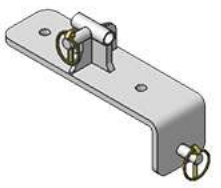


22. On Floor Mid Base Fitting

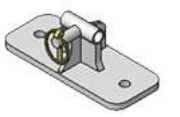


23. On Floor End Base Fitting

- Left Hand and Right Hand



24. On Floor Gable Base Fitting

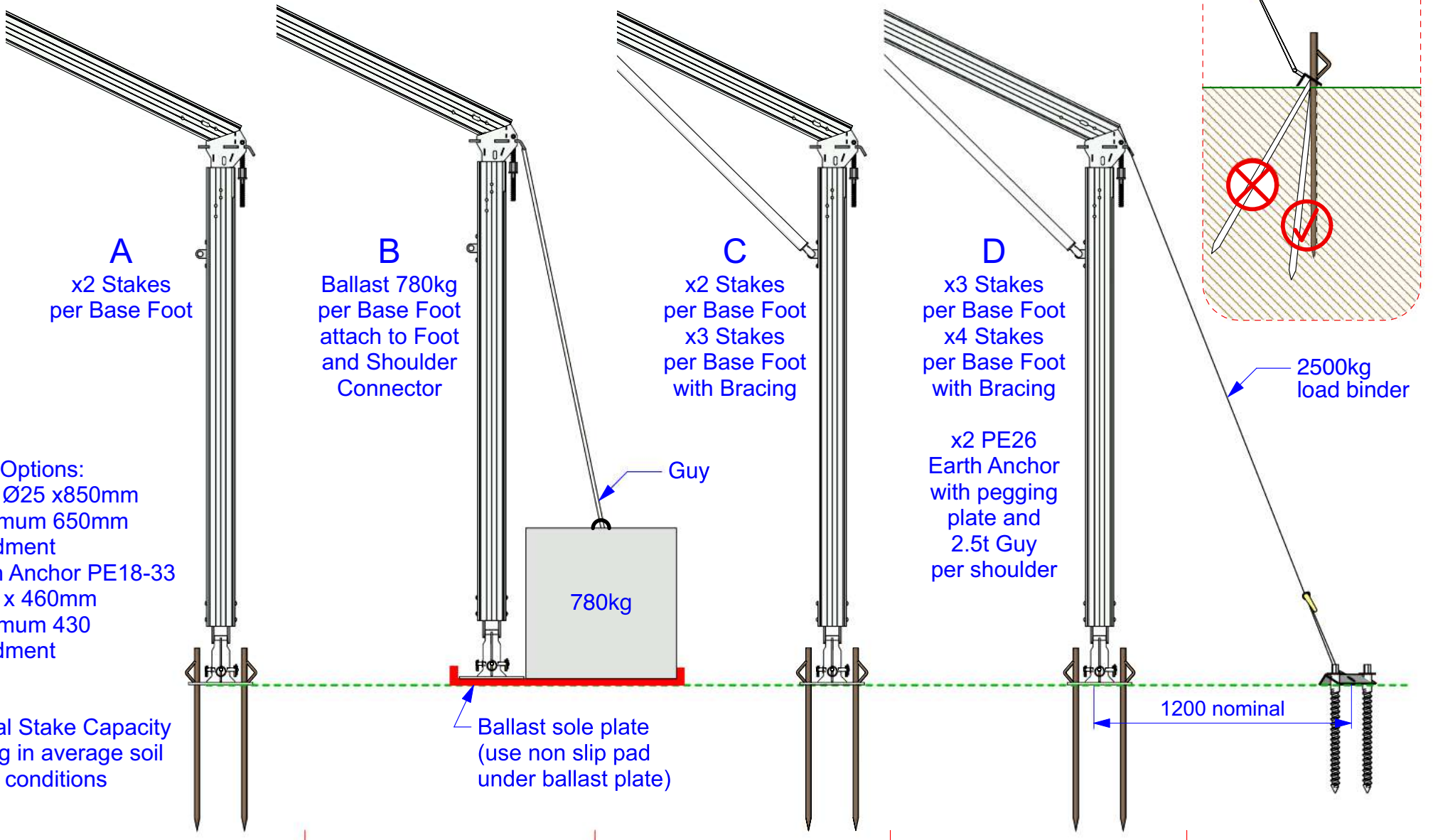


10m Square Frame Marquee

On Ground - Staking / Ballasting Options

baytex

Minimum Staking for each Leg of typical 10m x 5m Bay



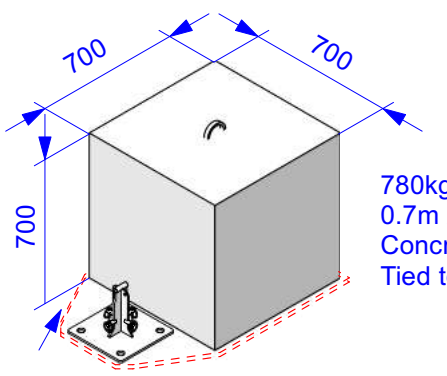
Stake Options:
- Peg Ø25 x850mm minimum 650mm embedment
- Earth Anchor PE18-33 Ø33 x 460mm minimum 430 embedment

Typical Stake Capacity 250kg in average soil conditions

Wind Speed	A	B	C	D
0km/h 10km/h 20km/h 30km/h 40km/h 50km/h 60km/h 70km/h	engineered Nominal Stake Capacity 250kg. 2 Stakes per base. 1.5 x safety factor.	engineered 780kg Ballast	engineered Nominal Stake Capacity 250kg. 2 Stakes per base. 1.5 x safety factor. 3 Stakes per base with Bracing Knee Braces Required	engineered Nominal Stake Capacity 250kg. 3 Stakes per base. 4 Stakes per base with Bracing x2 PE26 Earth Anchor with pegging plate and 2.5t Guy per shoulder Wall Barce Cables Required
75km/h				
80km/h 90km/h	Over 50km/h - All Walling to be fitted and closed			
95km/h				
100km/h				
108km/h				
110km/h 120km/h	For Wind Speeds over engineered solution - All Fabric to be Removed from Frame. Frame may be left standing			

Recommended Staking Options. Based on average Soil Conditions.
Minimum ground bearing capacity 50kpa.
Consider Location factors
eg: on Exposed Hilltop, limit speed to 50% of above.
In poor soil use more stakes or longer stakes.

Guy options: 10mm Nylon Rope or 50mm Ratchet Loadbinders



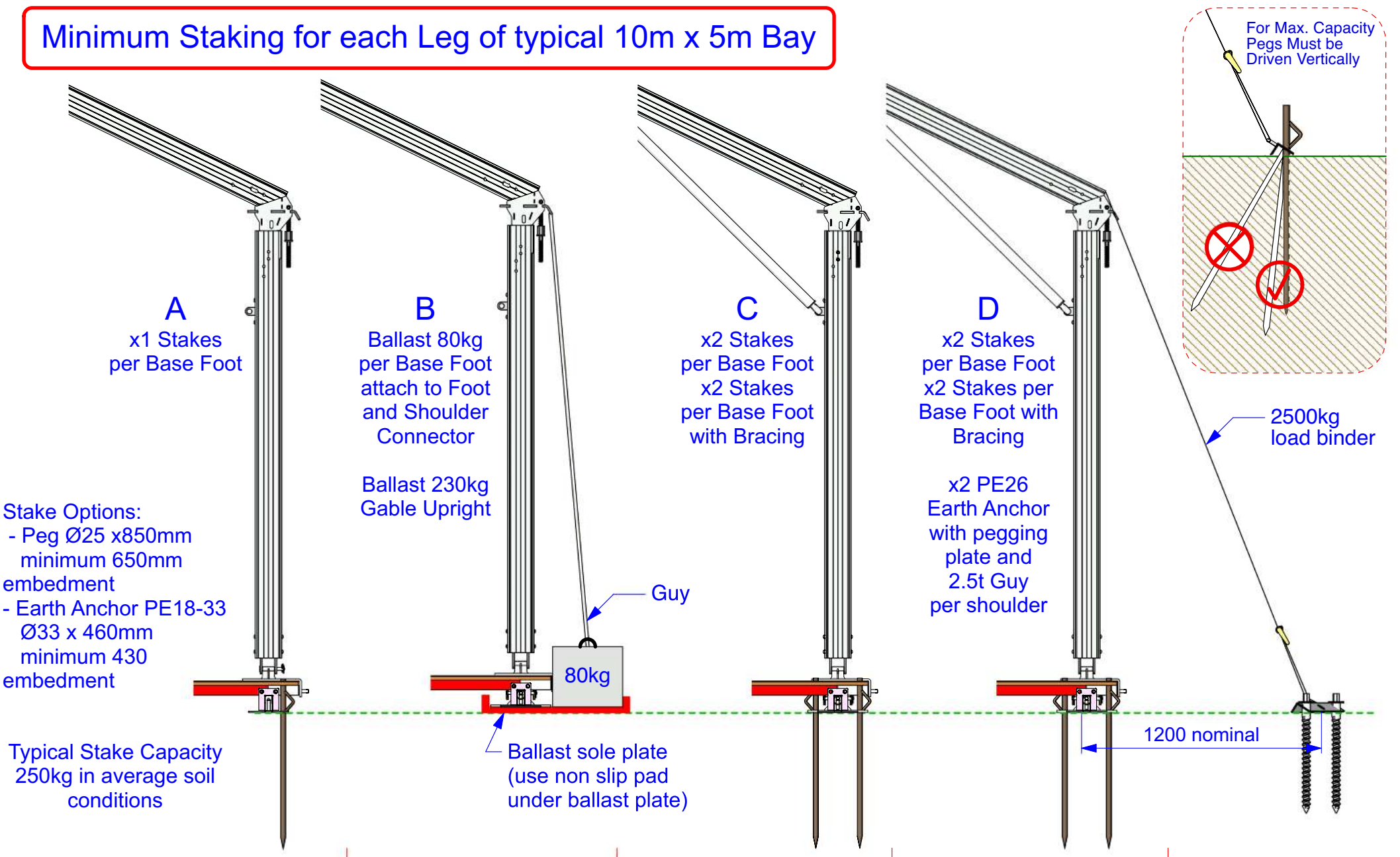
780kg Ballast
0.7m x 0.7m x 0.7m
Concrete Block.
Tied to base with sole plate

10m Square Frame Marquee

On Floor - Staking / Ballasting Options

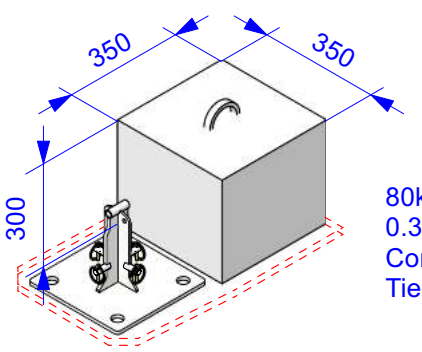
baytex

Minimum Staking for each Leg of typical 10m x 5m Bay



Wind Speed	A	B	C	D
0km/h	engineered	engineered	engineered	engineered
10km/h	Nominal Stake Capacity 250kg. 1 Stakes per base. 1.5 x safety factor.	80kg Ballast per Portal Foot 230kg Ballast per Gable Upright	Nominal Stake Capacity 250kg. 2 Stakes per base. 1.5 x safety factor. 2 Stakes per base with Bracing Knee Braces Required	Nominal Stake Capacity 250kg. 2 Stakes per base. 2 Stakes per base with Bracing x2 PE26 Earth Anchors pegging plate and 2.5t Guy per shoulder Wall Barce Cables Required
20km/h				
30km/h				
40km/h				
50km/h				
60km/h				
70km/h				
75km/h				
80km/h	Over 50km/h - All Walling to be fitted and closed			
90km/h				
95km/h				
100km/h				
108km/h				
110km/h	For Wind Speeds over engineered solution - All Fabric to be Removed from Frame. Frame may be left standing			
120km/h				

Recommended Staking Options. Based on average Soil Conditions.
Minimum ground bearing capacity 50kpa.
Consider Location factors
eg: on Exposed Hilltop, limit speed to 50% of above.
In poor soil use more stakes or longer stakes.



80kg Ballast
0.35m x 0.35m x 0.3m
Concrete Block.
Tied to base with sole plate

10m Square Frame Marquee

Base Plate Layout Options

Identify Relevant Base Plate Option
A - On Röder HTS Floor System
B - On Ground
note: If Marquee is Set up with Part Flooring, Start with Flooring

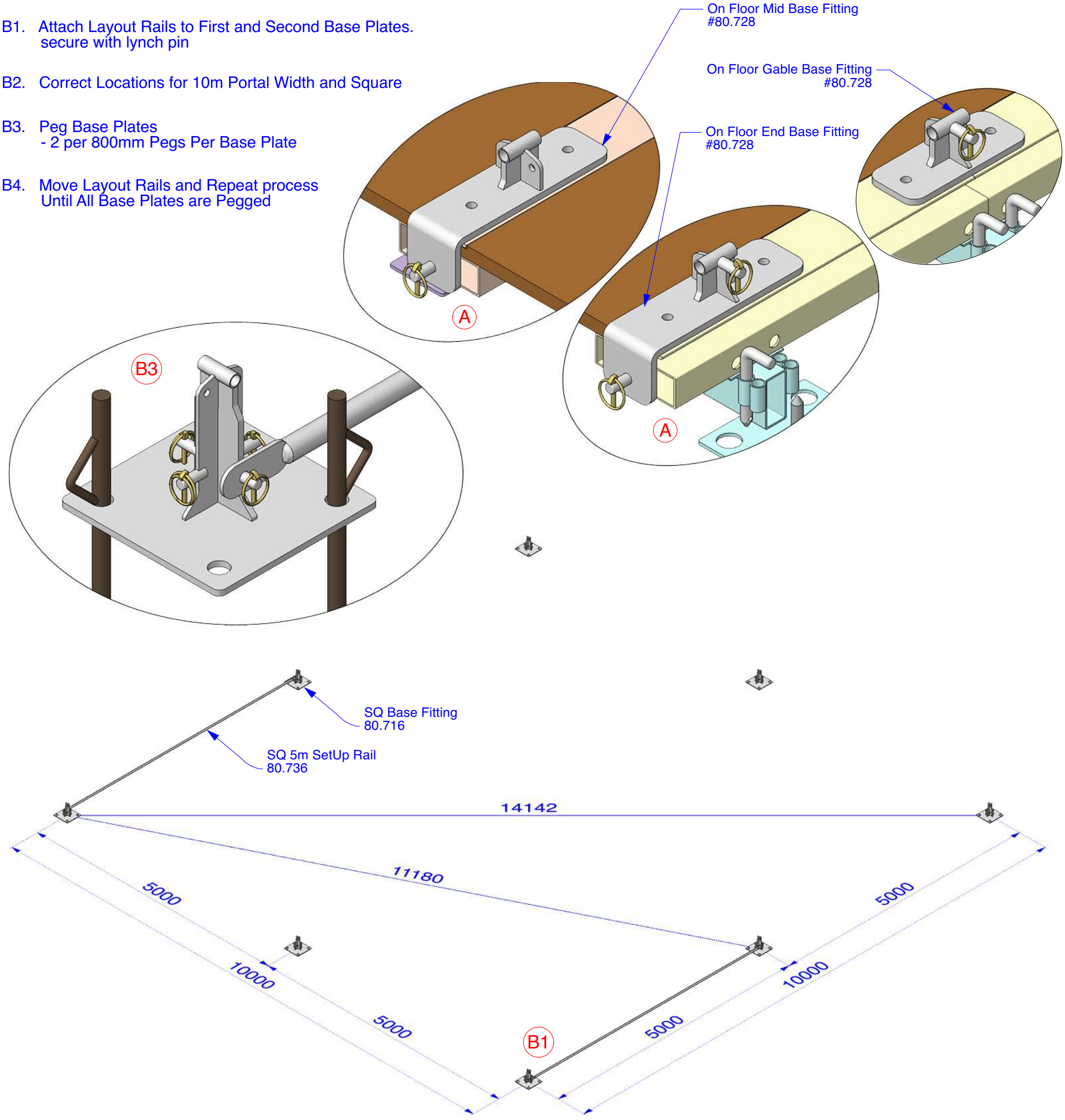
A. Floor Specific Base Plates are attached to Flooring Rails
Spacings are set by the Flooring System
Refer to Flooring Document for Details

B1. Attach Layout Rails to First and Second Base Plates.
secure with lynch pin

B2. Correct Locations for 10m Portal Width and Square

B3. Peg Base Plates
- 2 per 800mm Pegs Per Base Plate

B4. Move Layout Rails and Repeat process
Until All Base Plates are Pegged

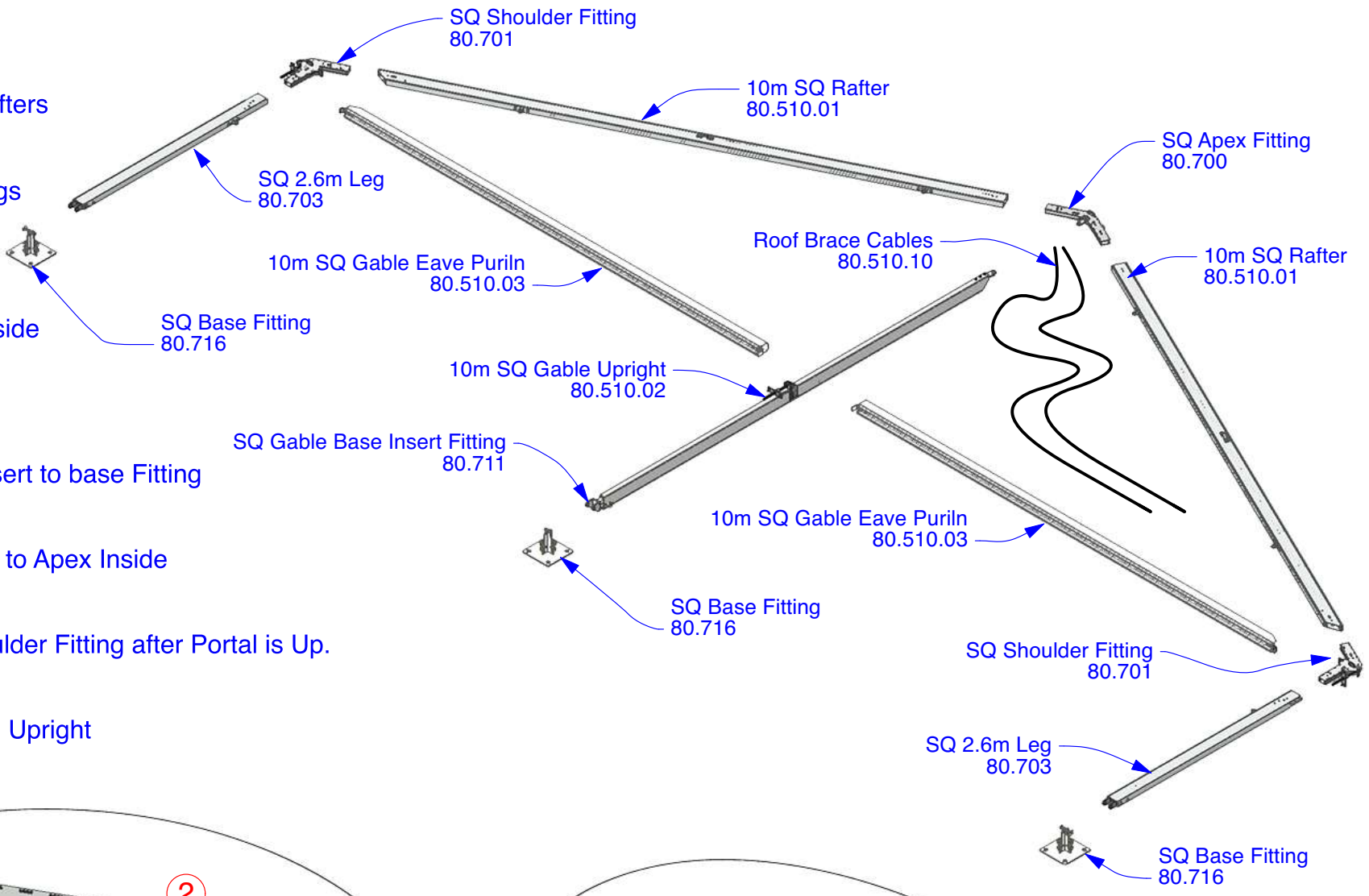


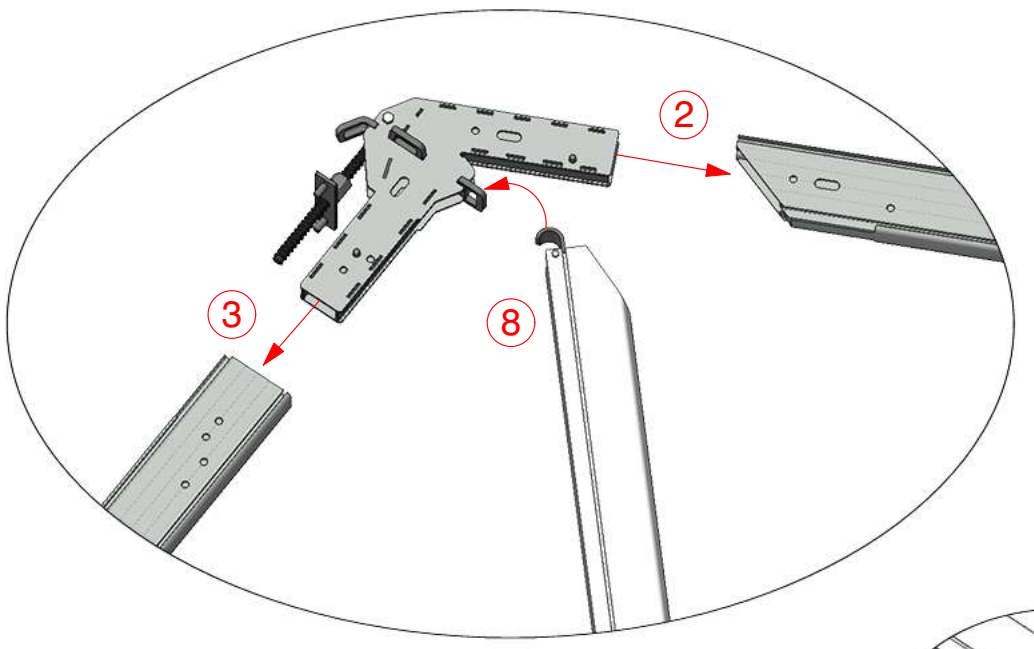
10m Square Frame Marquee

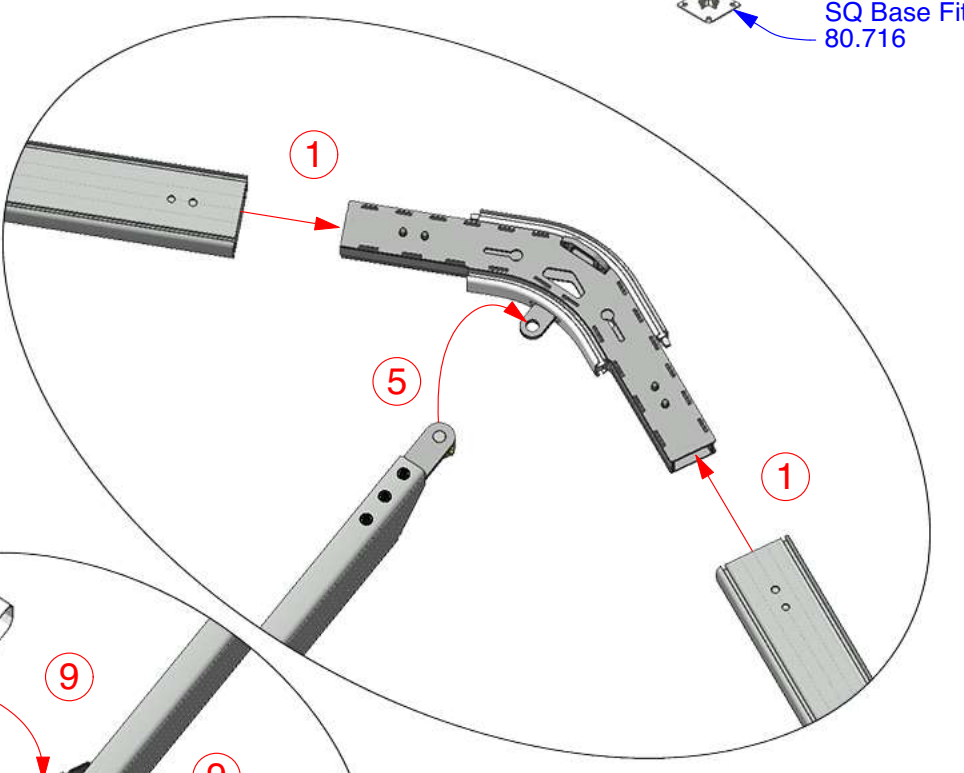
Gable End Frame Portal Assembly

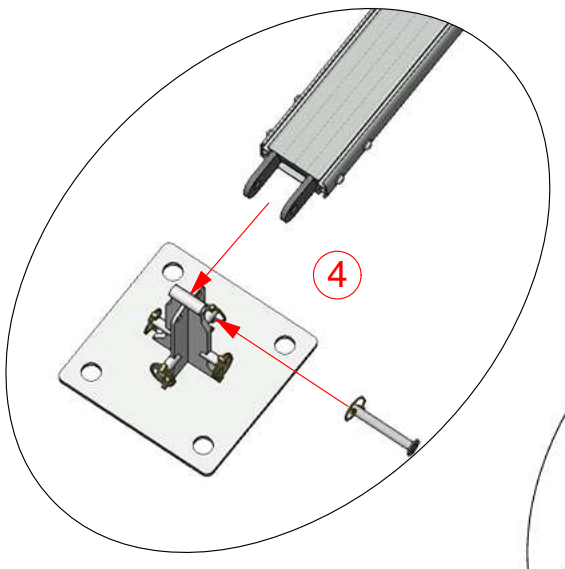
Assemble Gable Portal

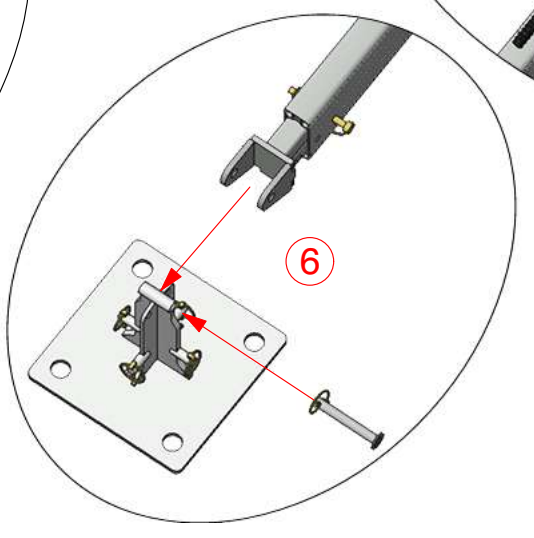
1. Join Rafters to Apex Fitting
   - Use Button Lock
2. Join Shoulder Fittings to Rafters
   - Use Button Lock
3. Join Legs to Shoulder Fittings
   - Use Button Lock
4. Join Legs to Base Fitting
   - Use Base Pin
   note: orientate pins to outside
5. Join Gable Upright to Apex
   - Use Lynch Pin
6. Join Gable Upright Base Insert to base Fitting
   - Use Base Pin
7. Attach 2 Roof Brace Cables to Apex Inside
8. Attach Gable Eaves to Shoulder Fitting after Portal is Up.
   - Rotate in
9. Attach Gable Eave to Gable Upright

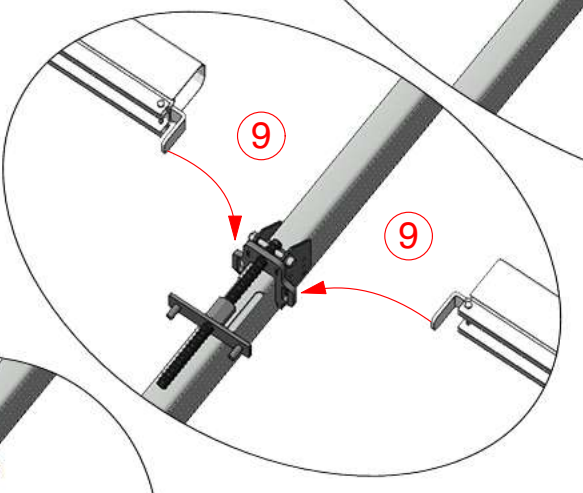


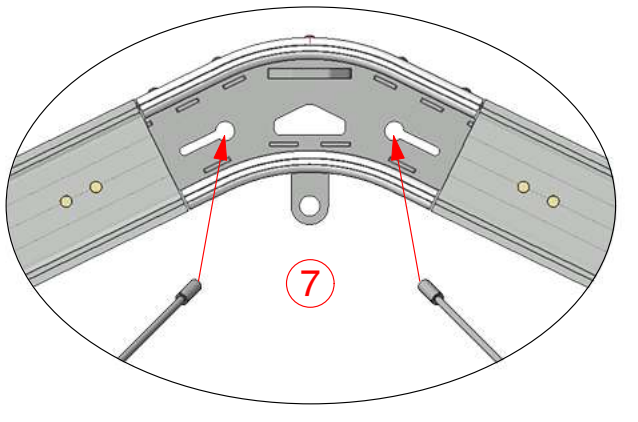










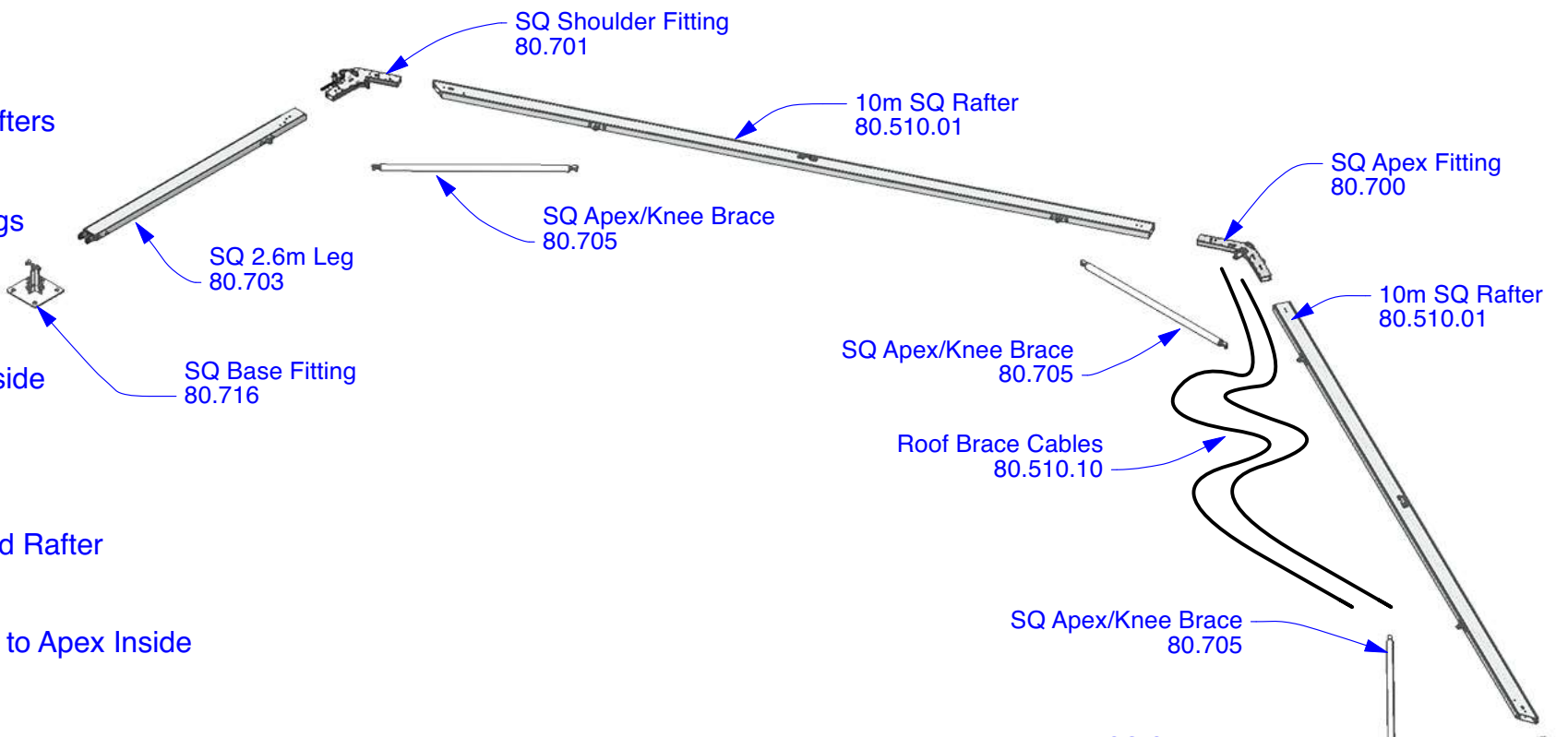


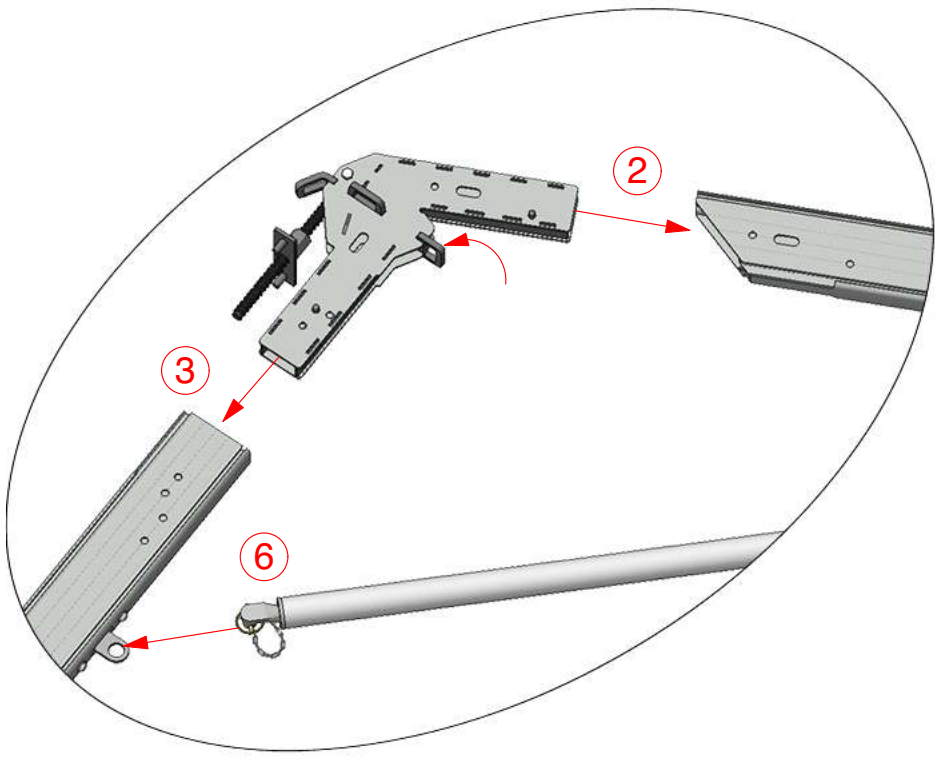
10m Square Frame Marquee

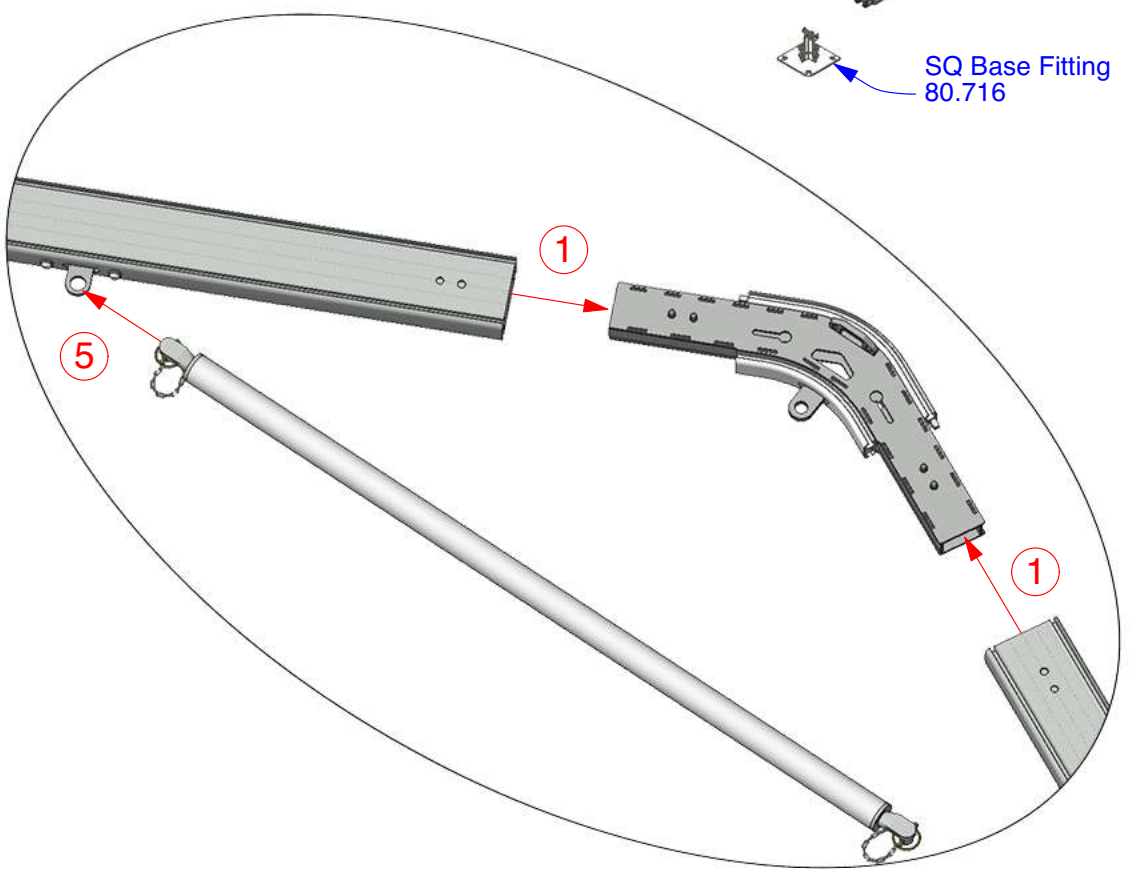
Mid Frame Portal Assembly

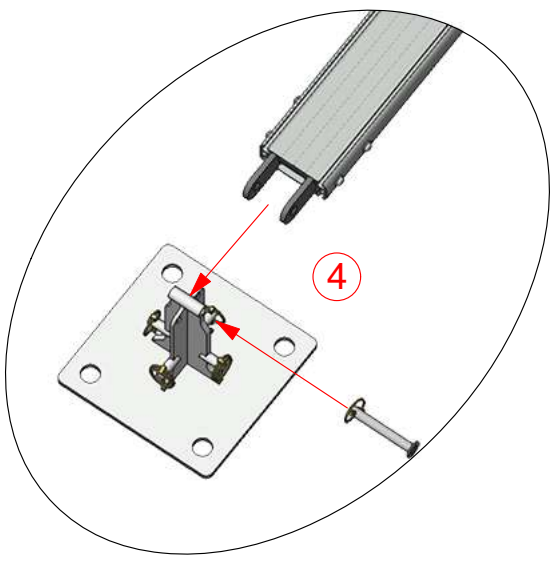
Assemble Mid Portal

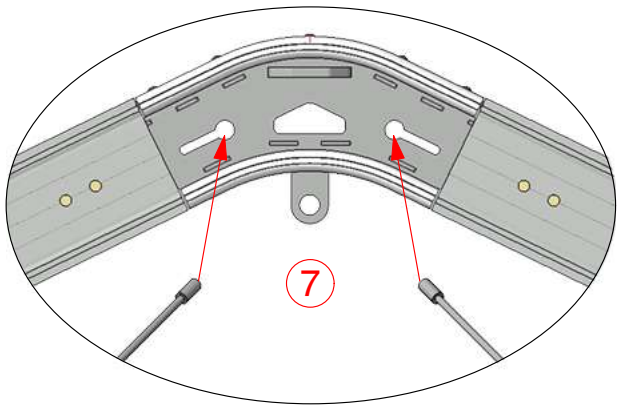
1. Join Rafters to Apex Fitting
   - Use Button Lock
2. Join Shoulder Fittings to Rafters
   - Use Button Lock
3. Join Legs to Shoulder Fittings
   - Use Button Lock
4. Join Legs to Base Fitting
   - Use Base Pin
   note: orientate pins to outside
5. Join Apex Brace to Rafters
   - Use Lynch Pin
6. Join Knee Braces to Leg and Rafter
   - Use Lynch Pin
7. Attach 2 Roof Brace Cables to Apex Inside









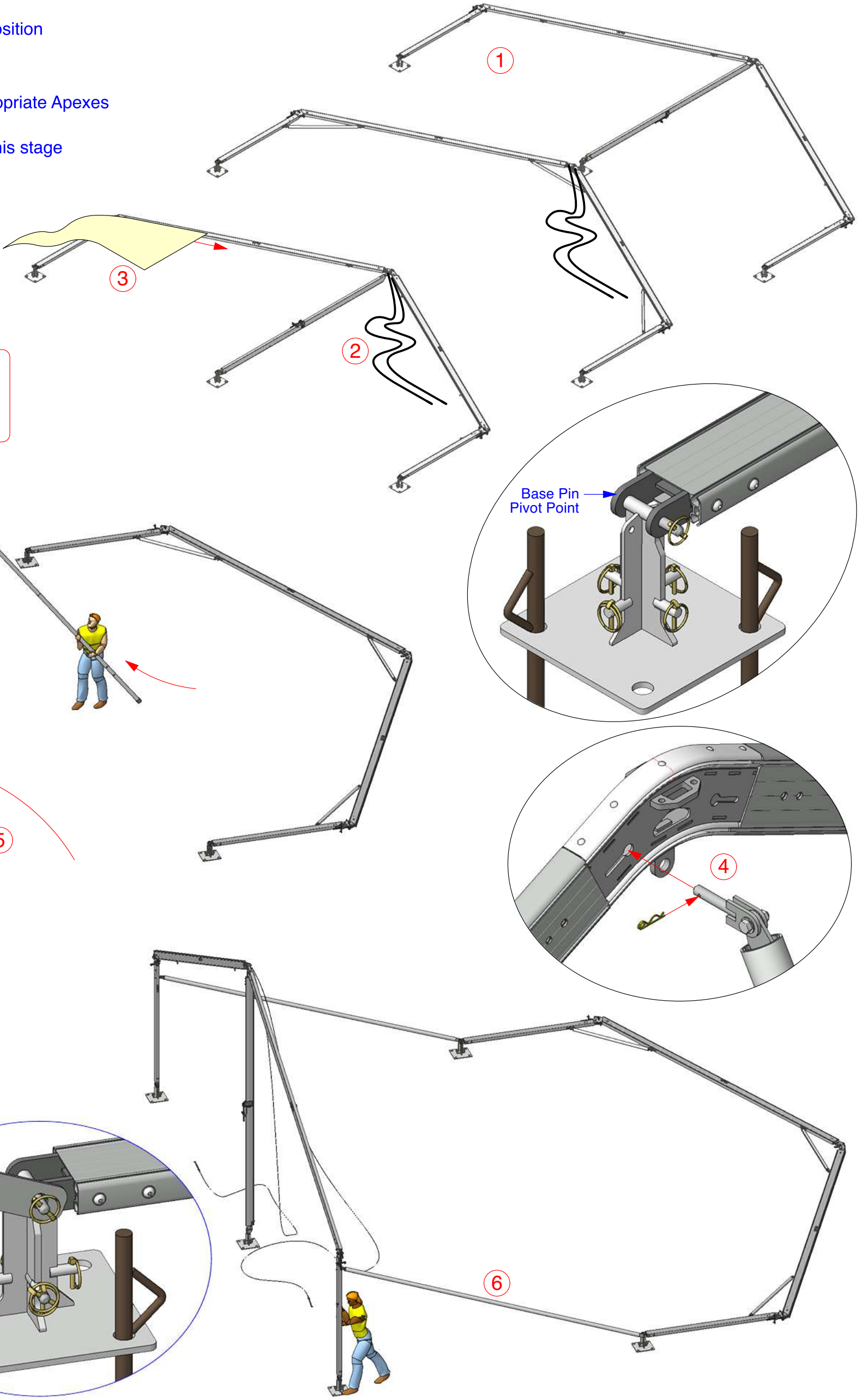


10m Square Frame Marquee

Install First Portal with Setup Braces

1. Assemble Portals on ground in position
   - ready for rotating up
   - Base Plates Pegged
2. Attach Roof brace Cables to appropriate Apexes
3. Gable Fabric can be Installed at this stage
4. Connect Push Pole to Apex
   - Use R-Clip
5. Rotate First Portal to Vertical
6. Fit Setup Brace Bars
   to Support First Portal

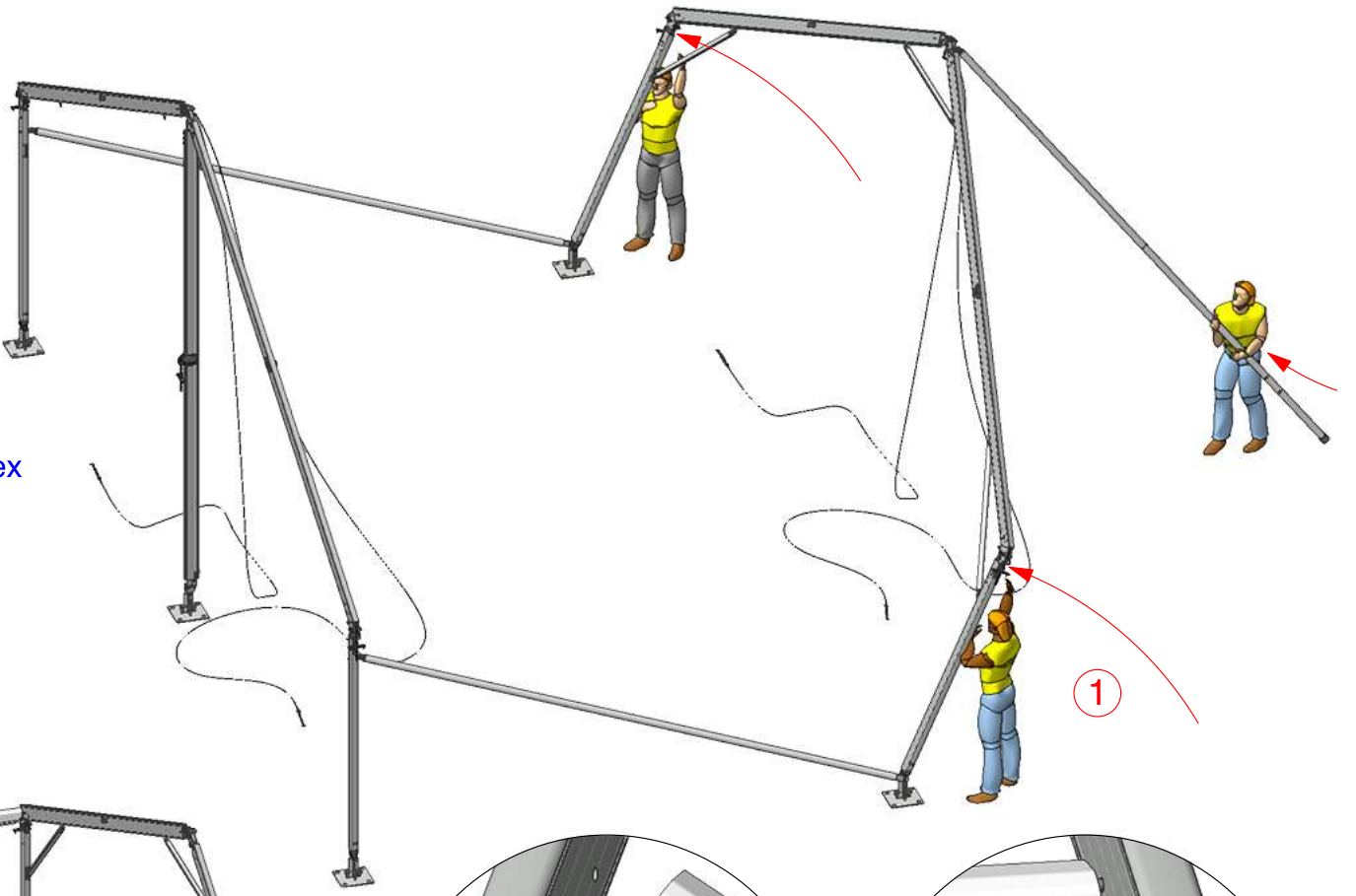
Health and Safety
Over Head Hazards
Hard Hats, Boots and High Vis

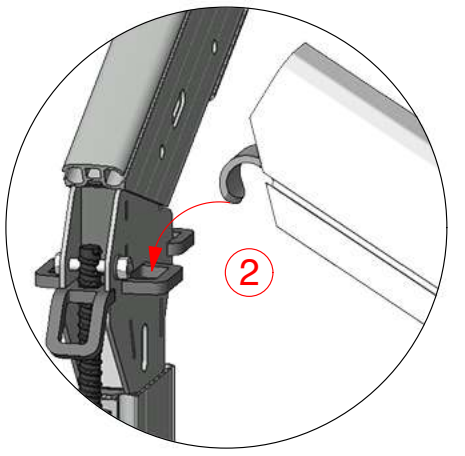


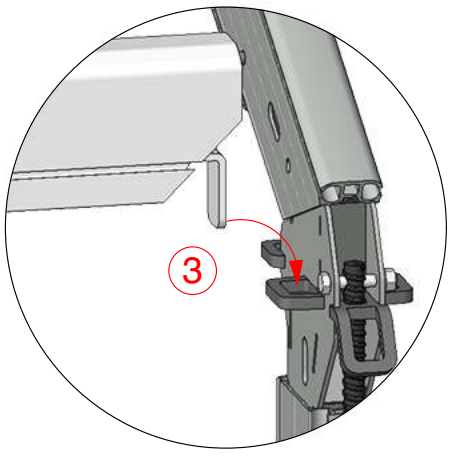
10m Square Frame Marquee

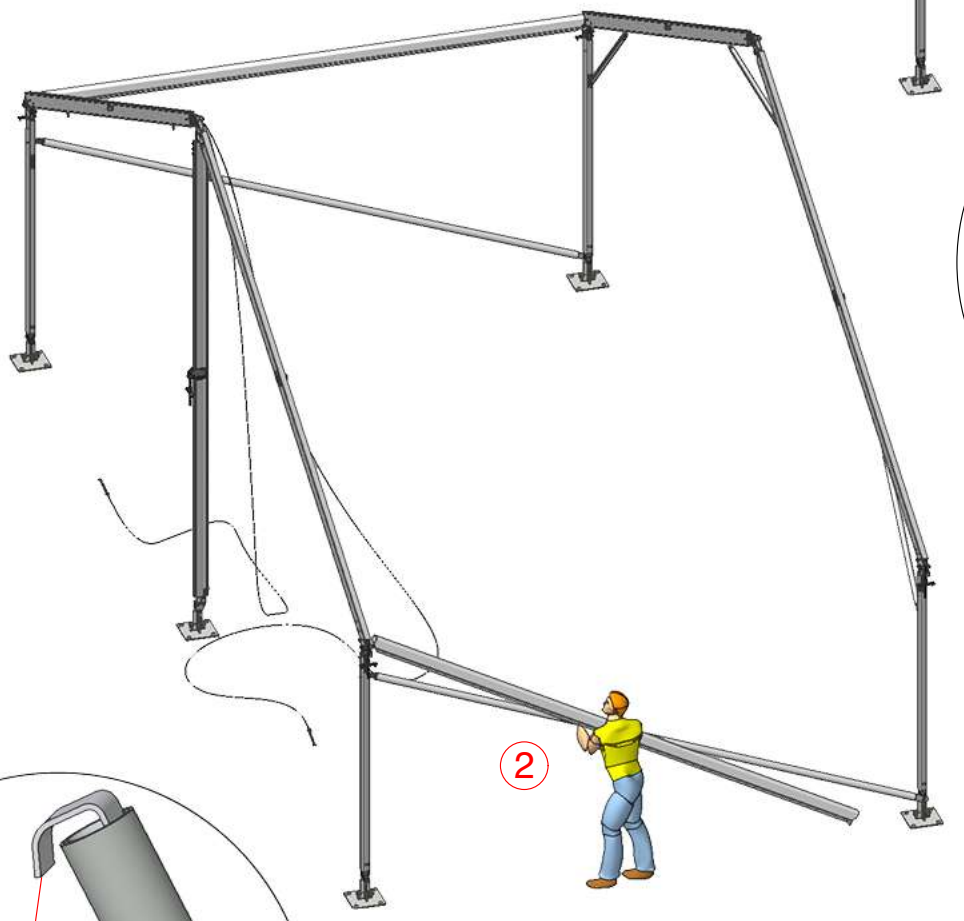
Install Purlins

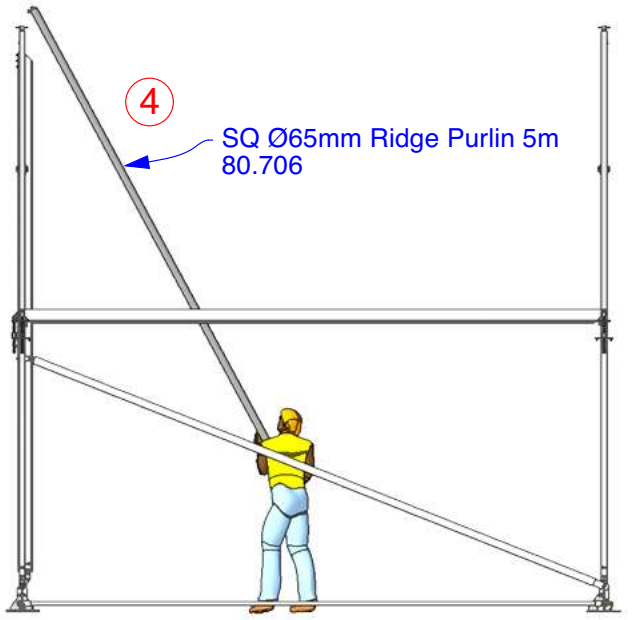
1. Rotate Second Portal to Vertical
   - Use Push Pole
2. Hook Eave Purlin onto Shoulder Fitting
   note: curved hook
3. Rotate Up and engage straight hook
4. Hook Ridge Purlin onto First Portal Apex
   note: curved hook
5. Rotate Ridge Purlin Ø65 up to Second Portal Apex
   - Use Purlin Fork. keep square to purlin
   - twist Purlin Fork to reduce sliding
6. Hook Ridge Purlin into Second Portal Apex
   - Ensure Engaged
7. Install Intermediate Purlins Ø50
   - same process as Ridge Purlin

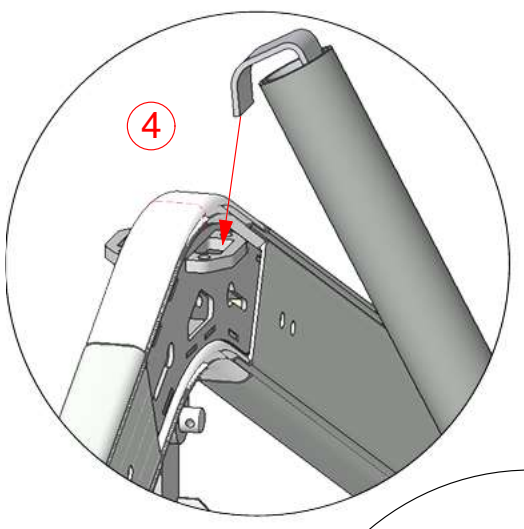




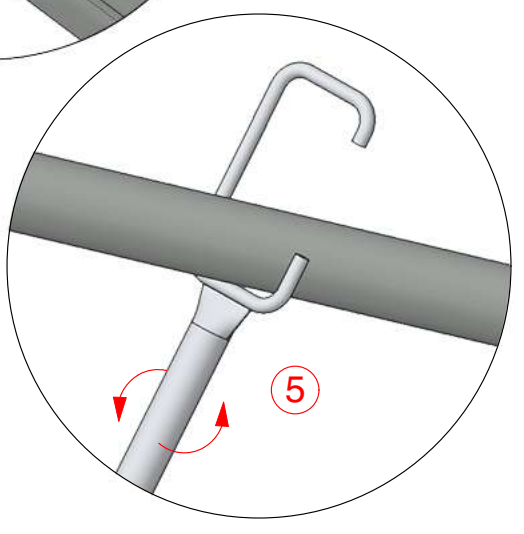


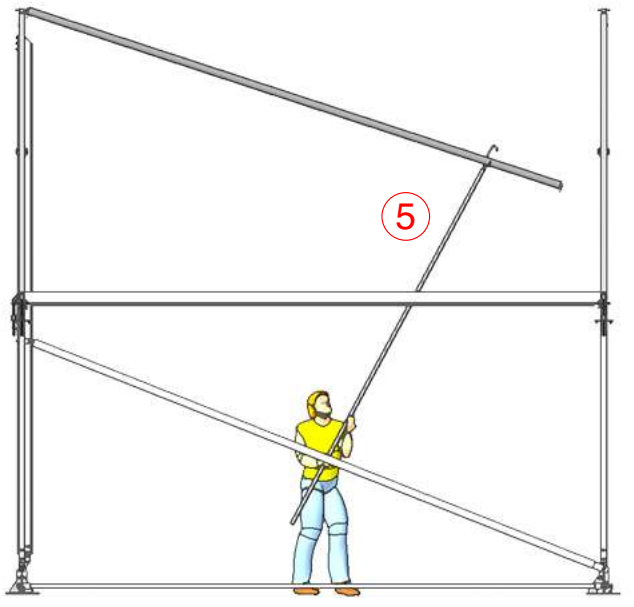


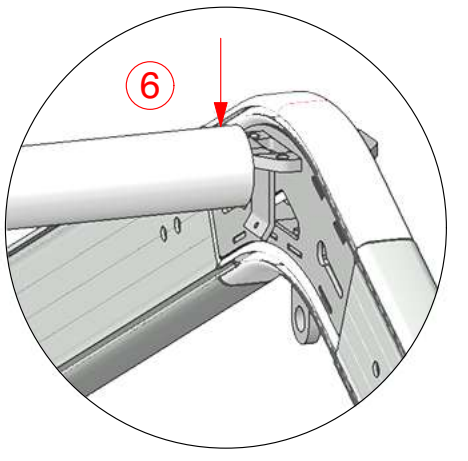




Health and Safety
Over Head Hazards
Hard Hats, Boots and High Vis







Keep setup braces in place
untill bay bracing installed

10m Square Frame Marquee

Brace Installation Options

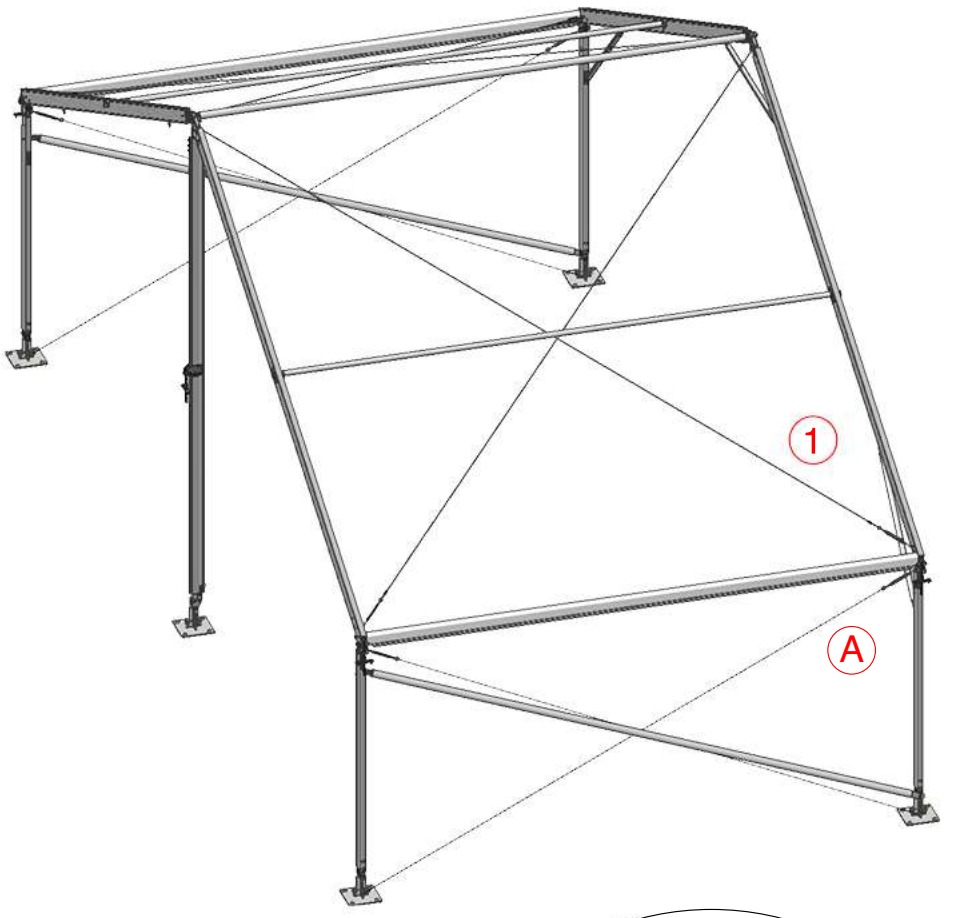
Identify Relevant Bays to Brace and Option
A - Roof Cables with Wall Cables
B - Roof Cables with Braced Bay Strut
note: Bay may have Wall Cables one side and Strut the other

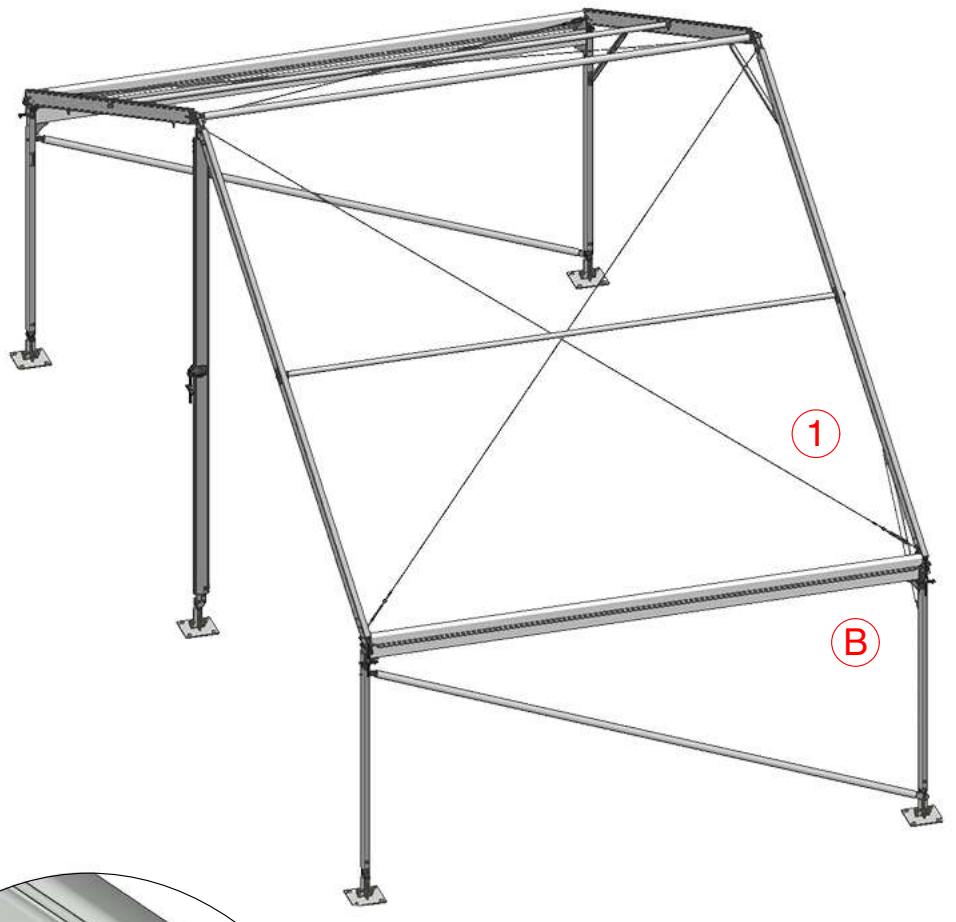
1. Attach Roof Brace Wires to Shoulders
   - Unwind T from turnbuckle to engage if required
   - Do not tension turnbuckle until roof fabric is in place
   - x4 per braced bay

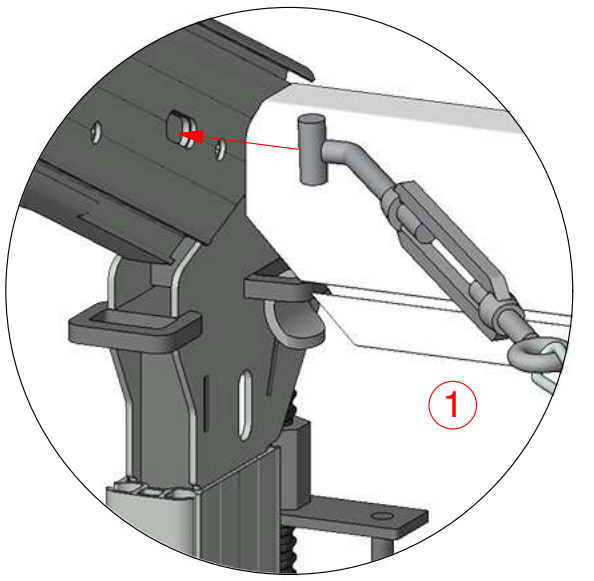
A. Attach Wall Brace Wires to Leg
   - T into slot, shackle to base fitting
   - Tension turnbuckle to pull legs to plumb

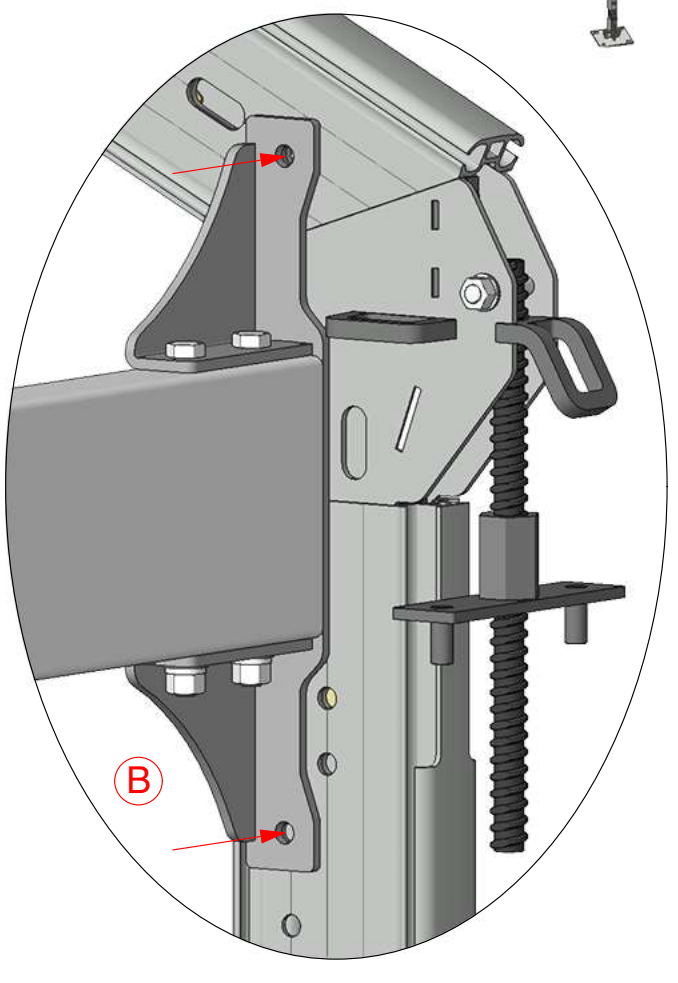
B. Bolt Braced Bay Strut to Leg and Rafter
   - x4 M12x80 bolts

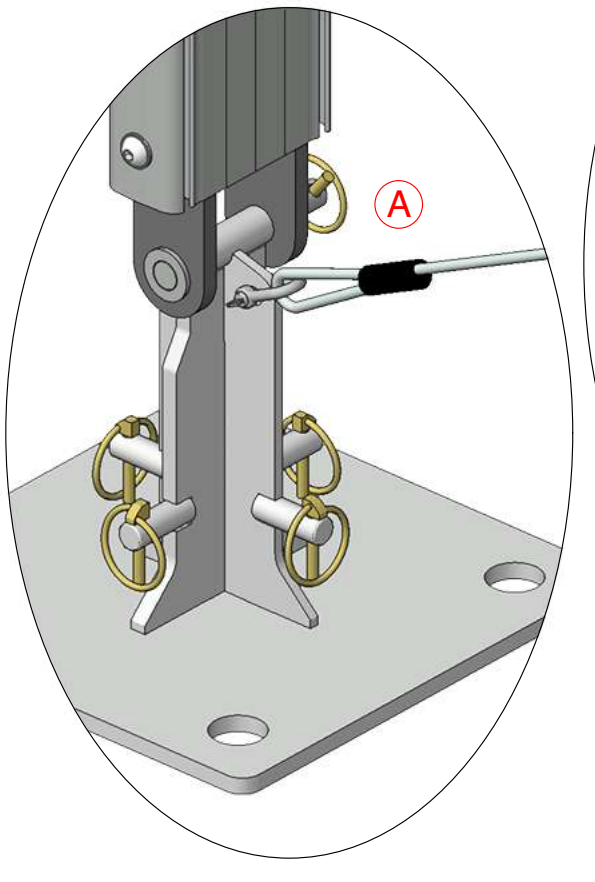
3. Setup Brace Struts may be removed once bracing is Installed.

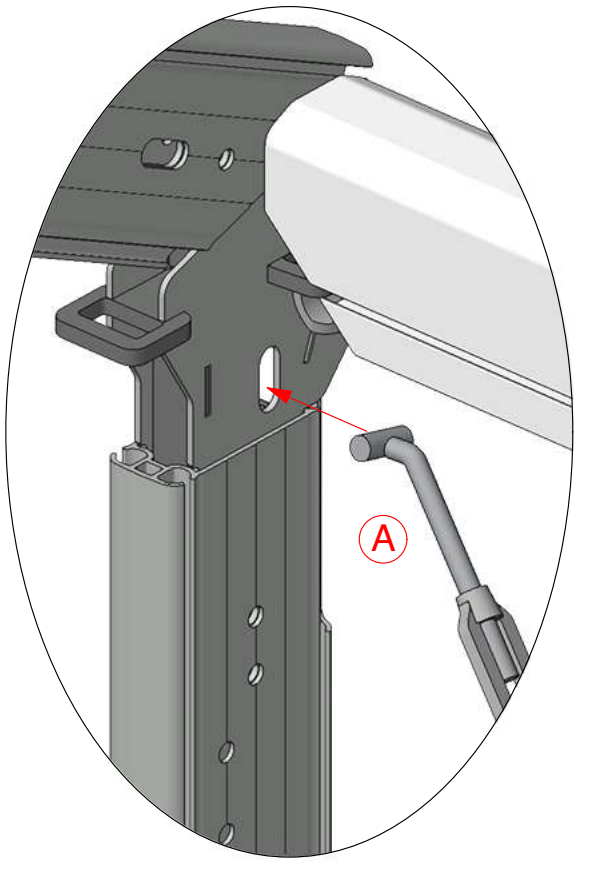












Keep setup braces in place untill bay bracing installed

10m Square Frame Marquee

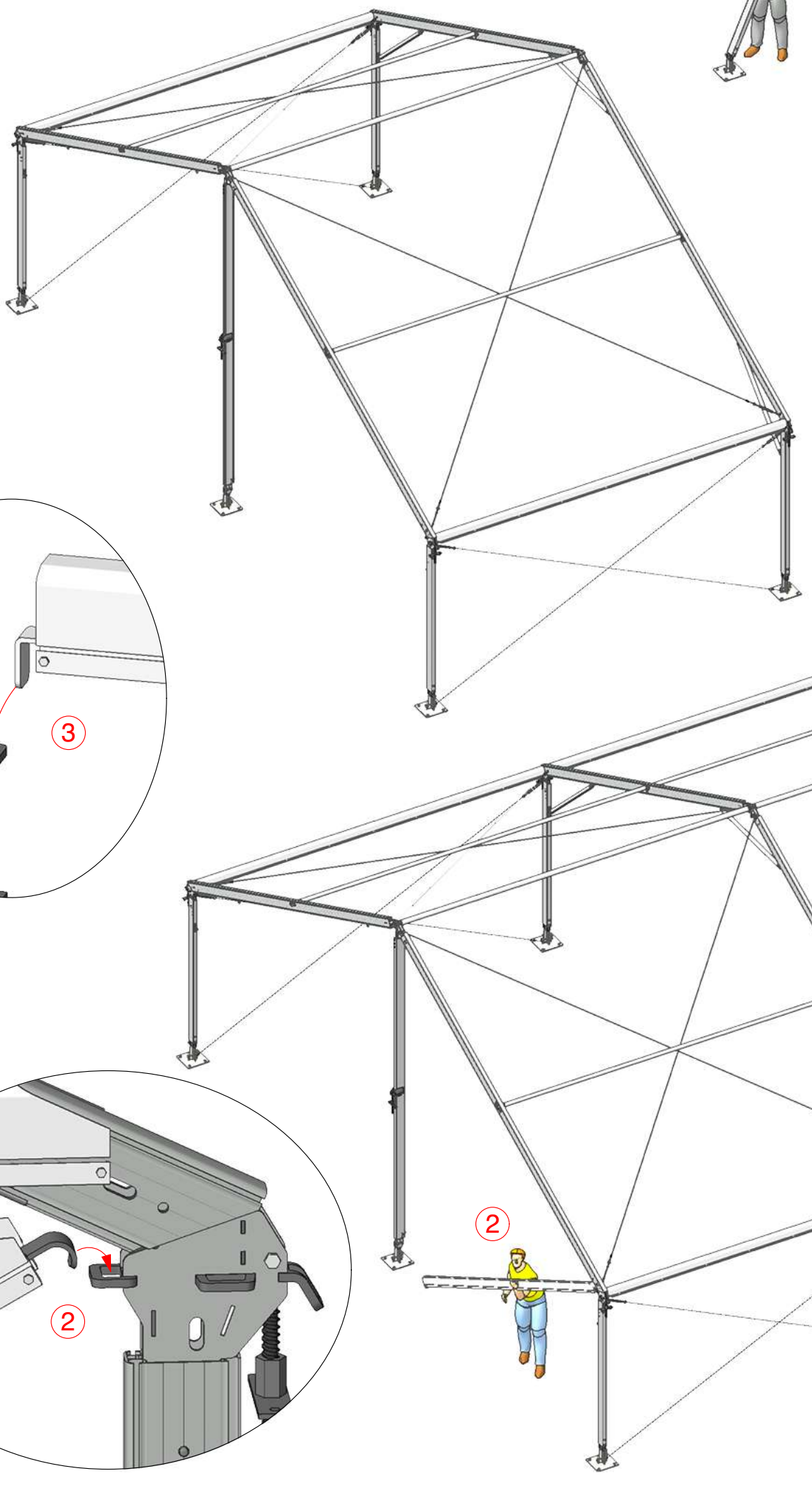
Continued Frame Assembly

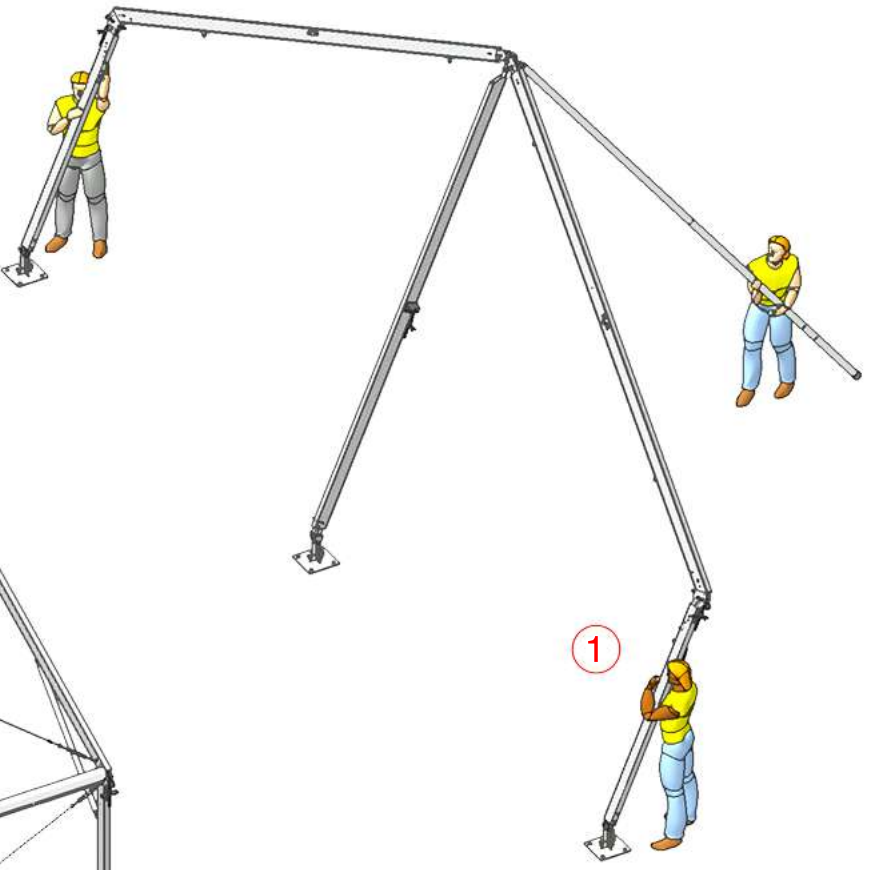
1. Continue Assembling Each Portal and Bay in same process as first.
   - Base Fittings should be located and pegged
   - Consider braced bay placements.
   - Assemble Portal on Ground
   - Rotate Portal Up & retain with Eave Purlins
   - Install Ridge Purlin & Intermediate Purlins
   - Fasten Brace wires if applicable

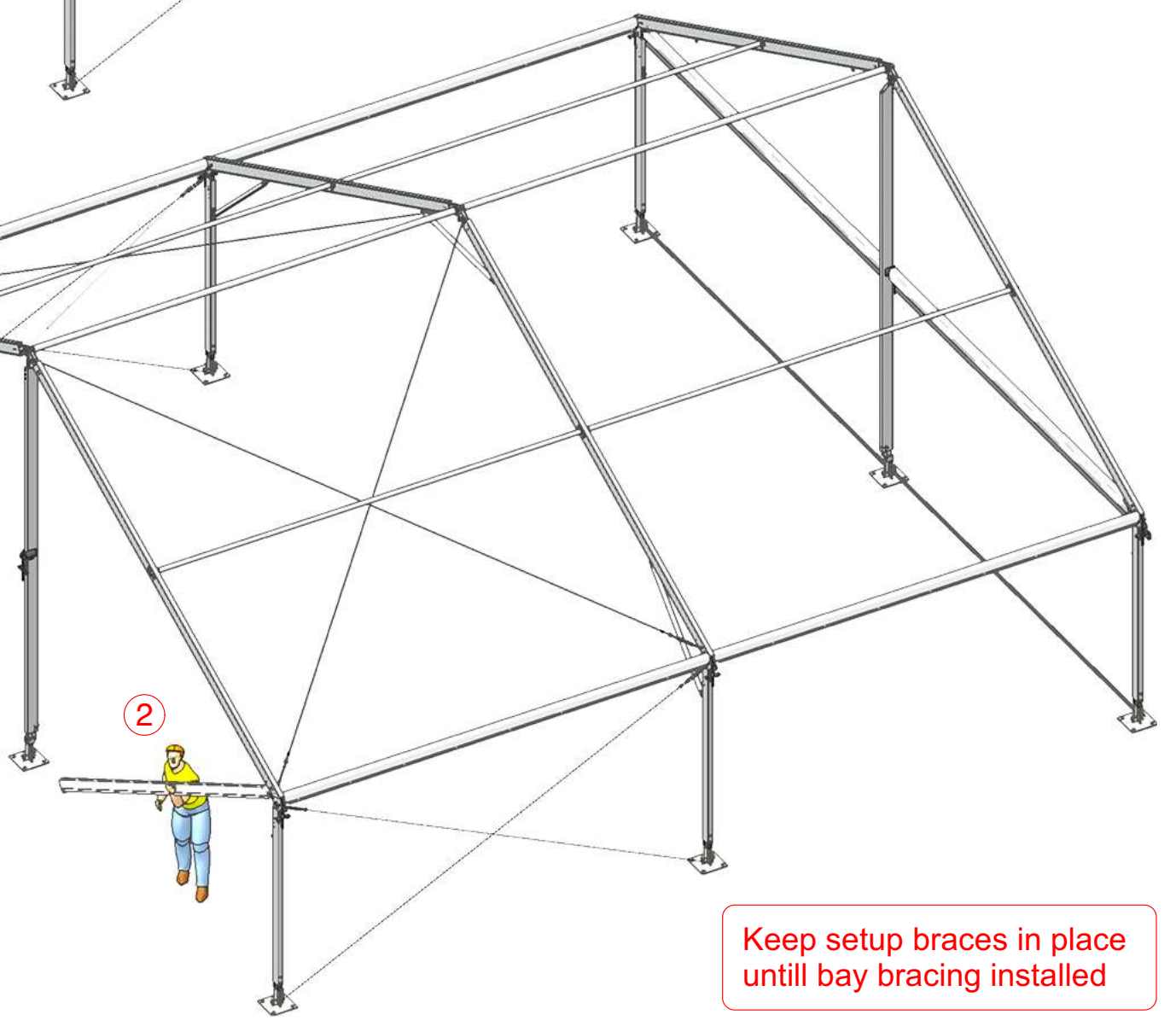
Health and Safety
Over Head Hazards
Hard Hats, Boots and High Vis

2. Hook Gable Eave Purlin into Shoulder Fitting

3. Rotate up and fit straight Hook in Gable Upright bracket





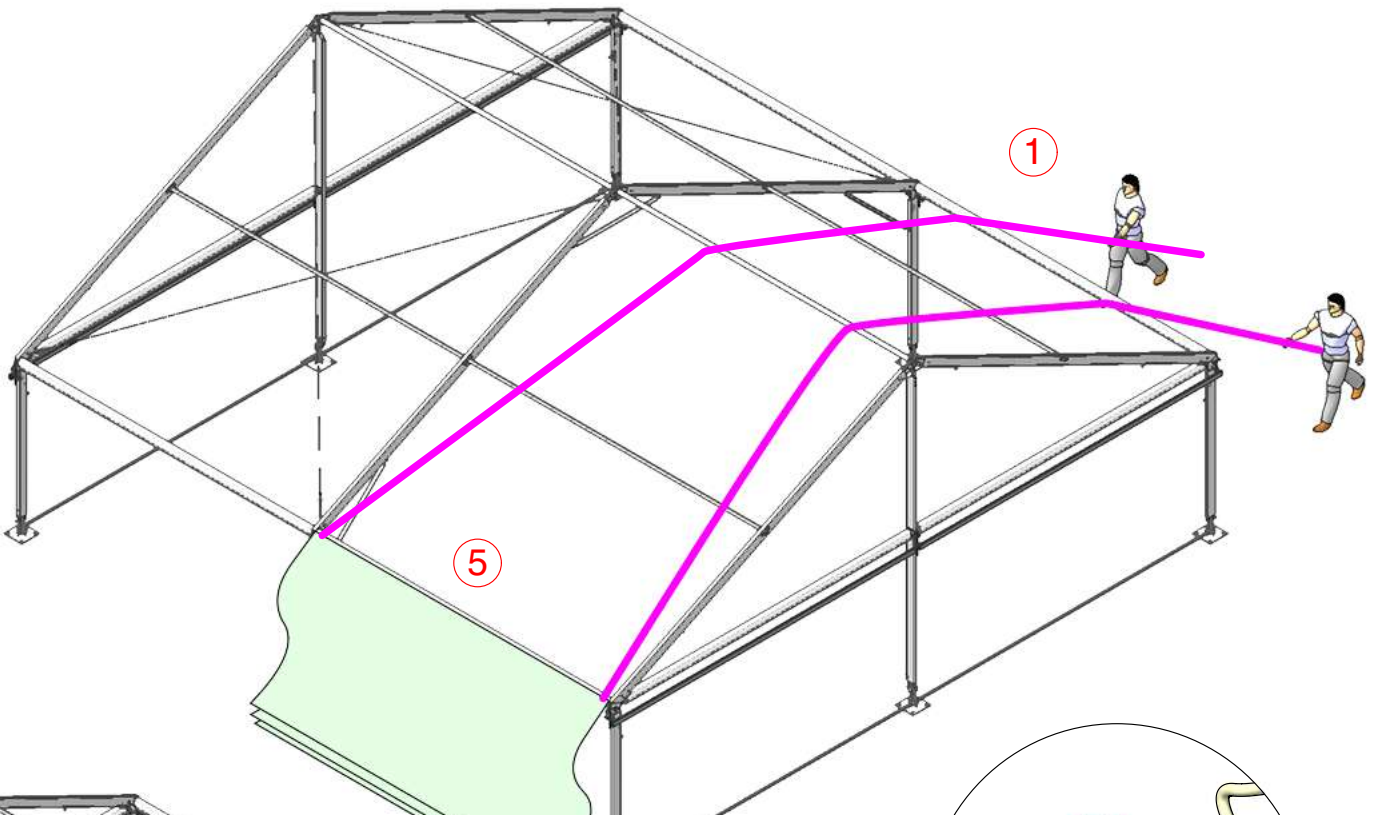


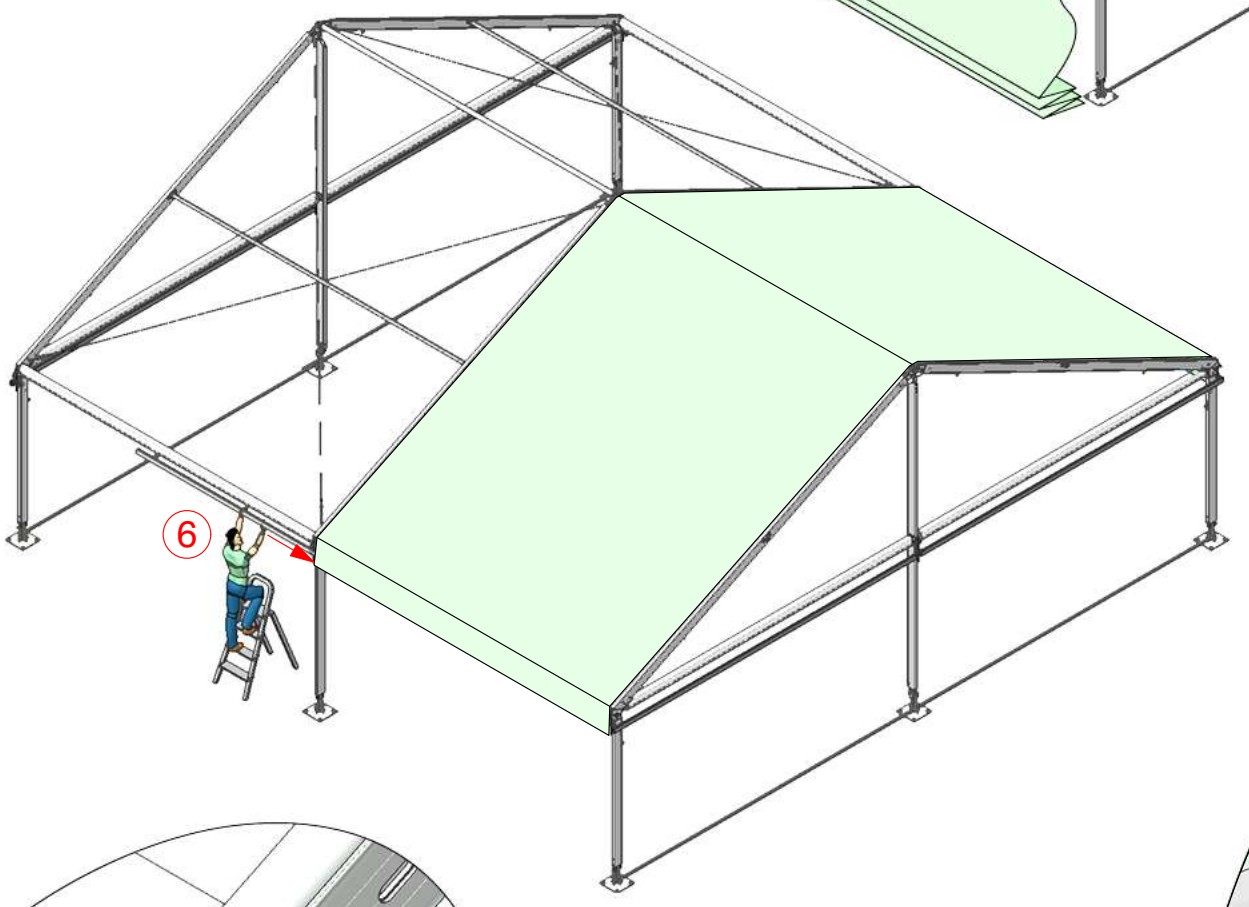
Keep setup braces in place
untill bay bracing installed

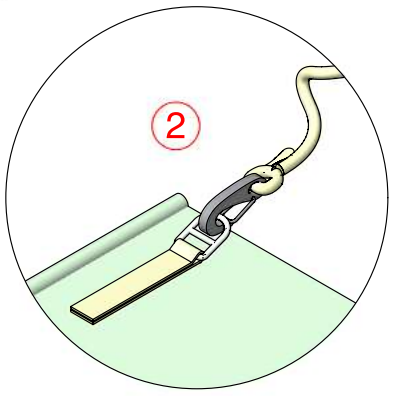
10m Square Frame Marquee

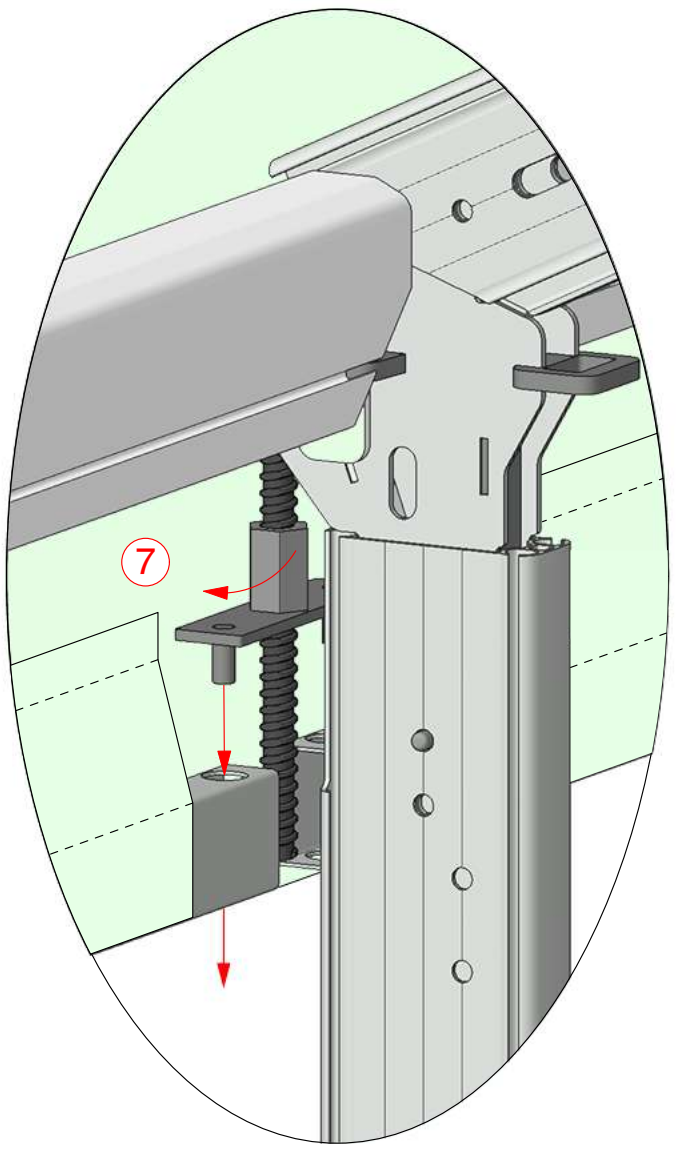
Roof Fabric Installation

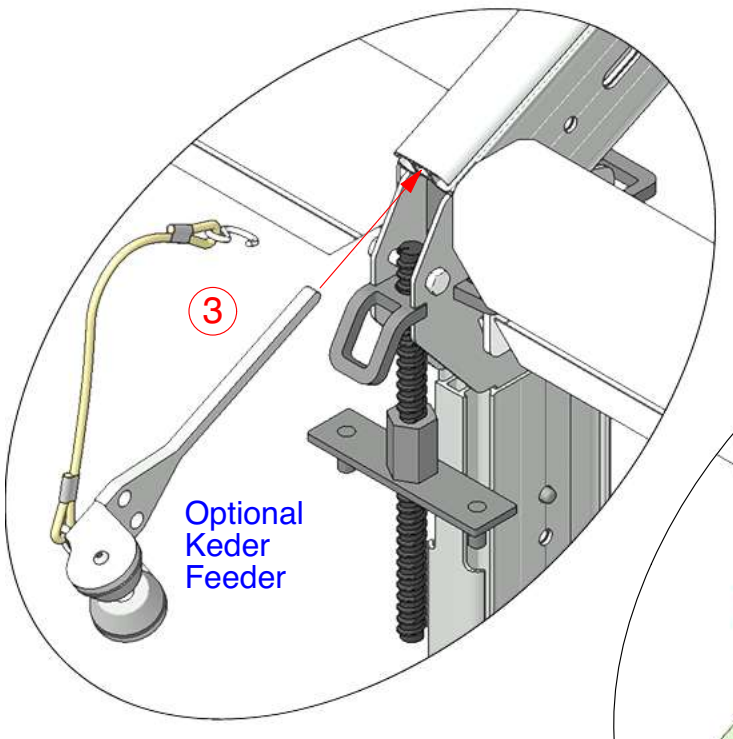
1. Throw Pull Over Ropes Across
2. Attach Pull Over Ropes to Roof 'D'
   - hook facing fabric
3. Fit Keder Feeder in Rafter end
   - optional part
   - secure with hook around leg
4. Engage Keder in Rafter Extrusion
   - feed through Keder Feeder
5. Pull Panel Evenly
6. Fit Tension Bars in Pocket
7. Tension Mid Panels
   - Engage Tensioner Bracket
   - Wind Reid Nut to tension

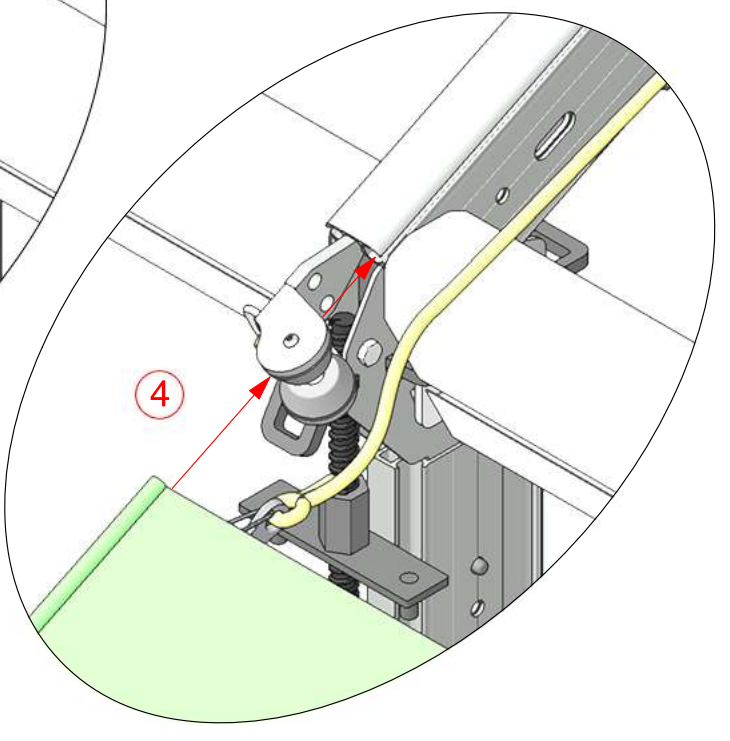








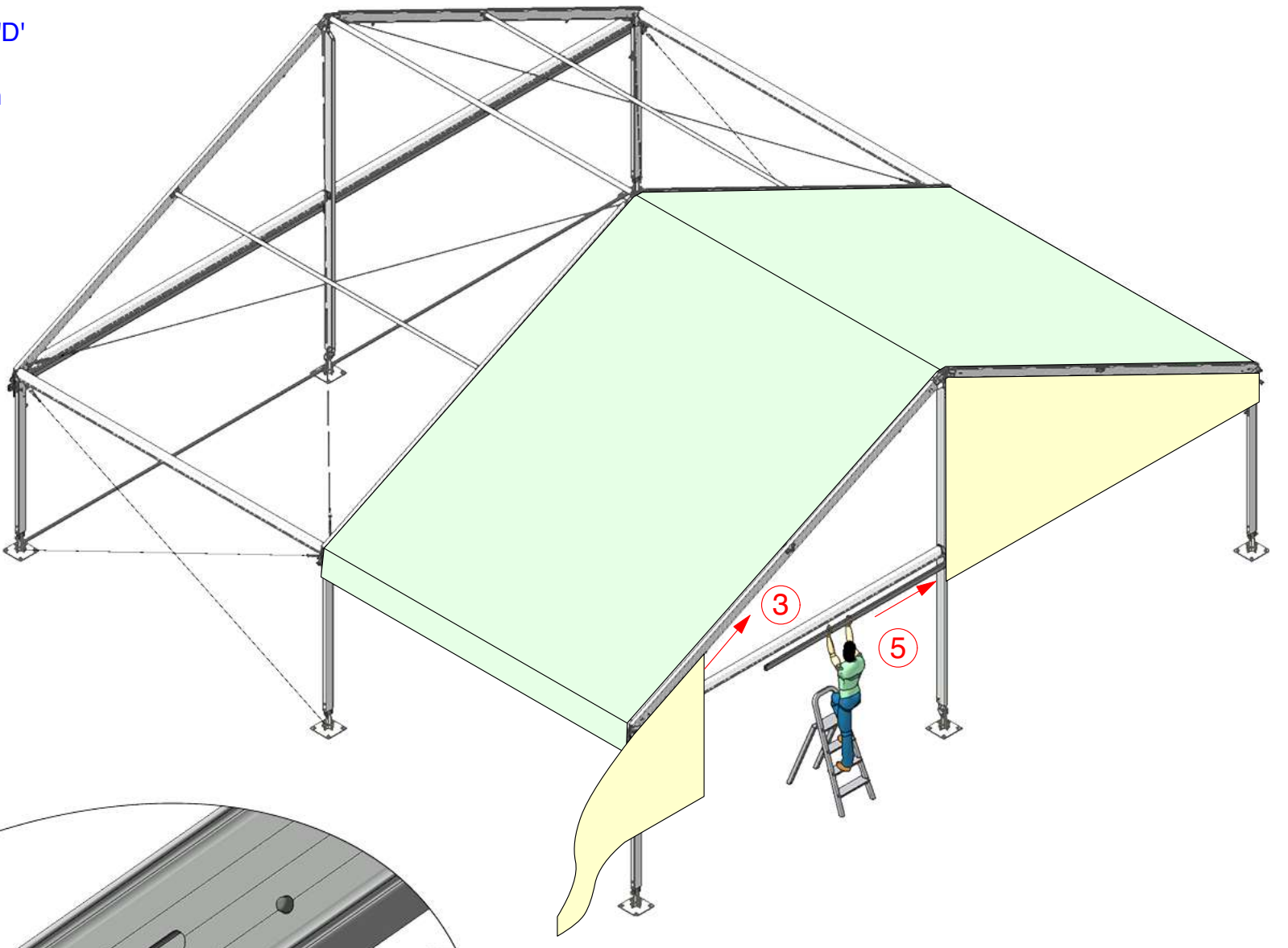


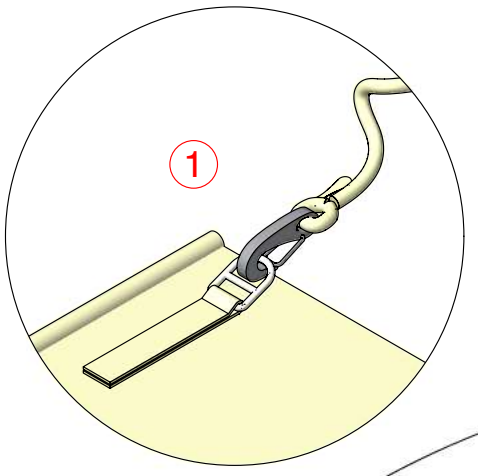


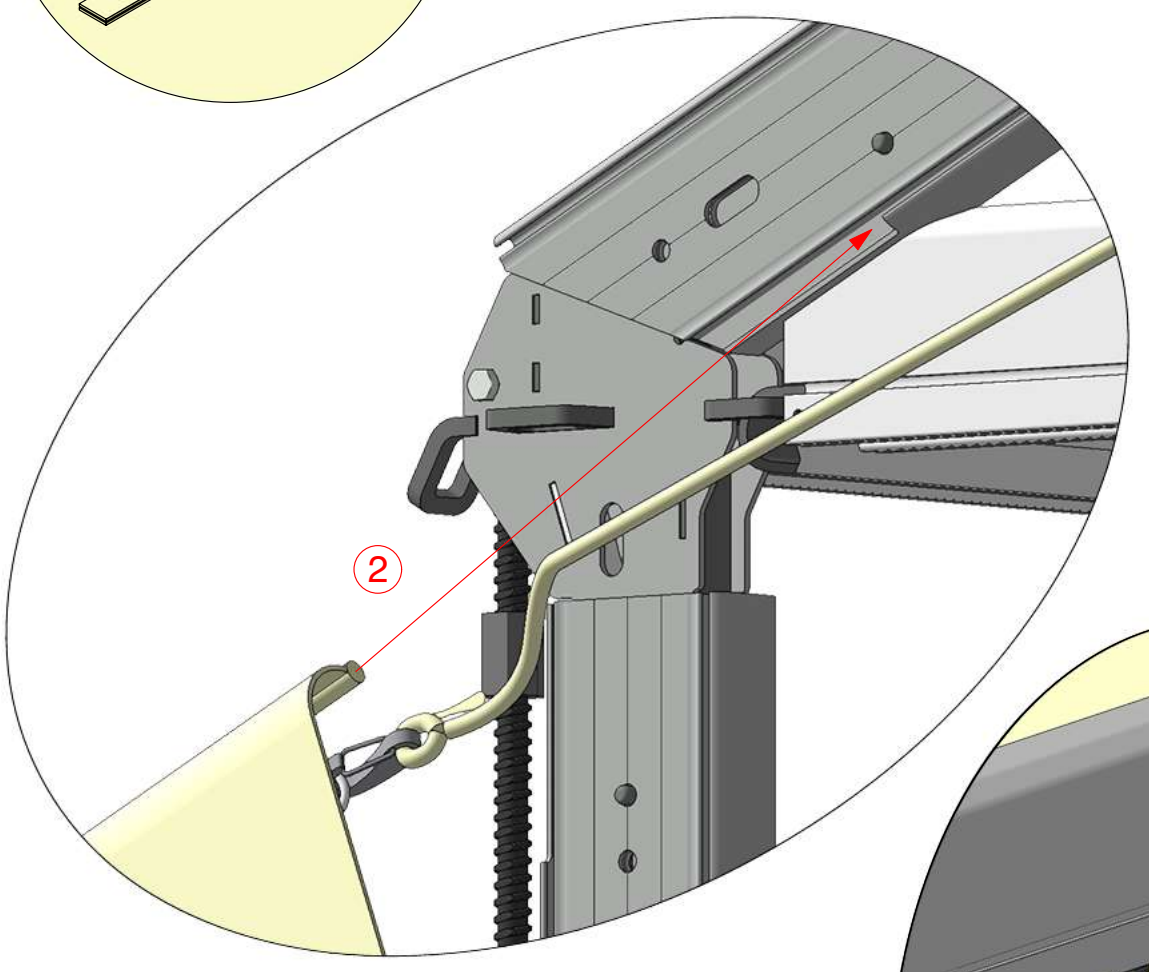
10m Square Frame Marquee

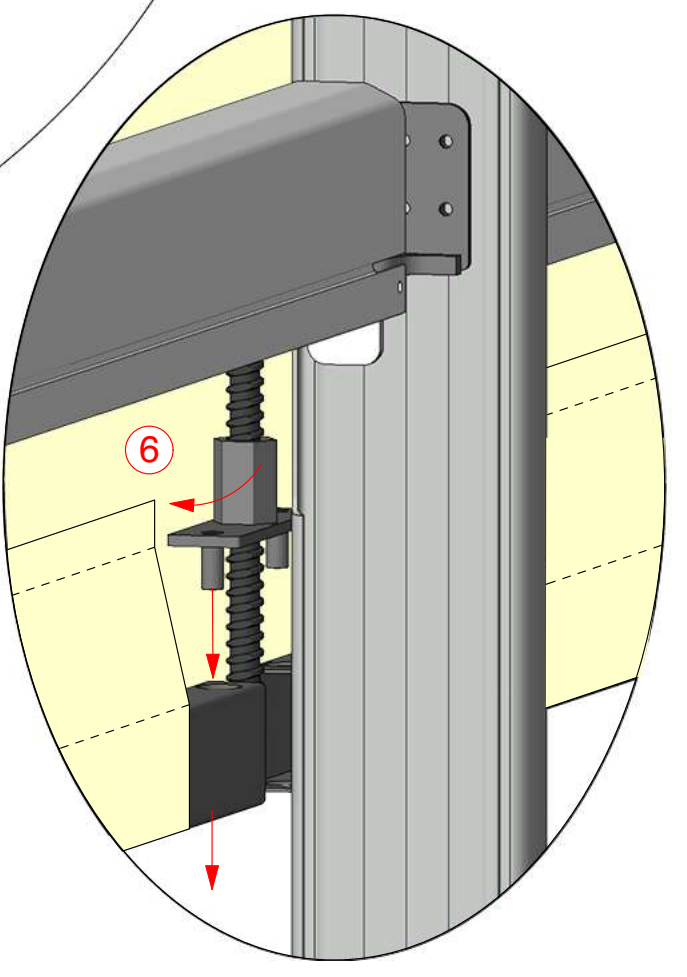
Gable Fabric Installation

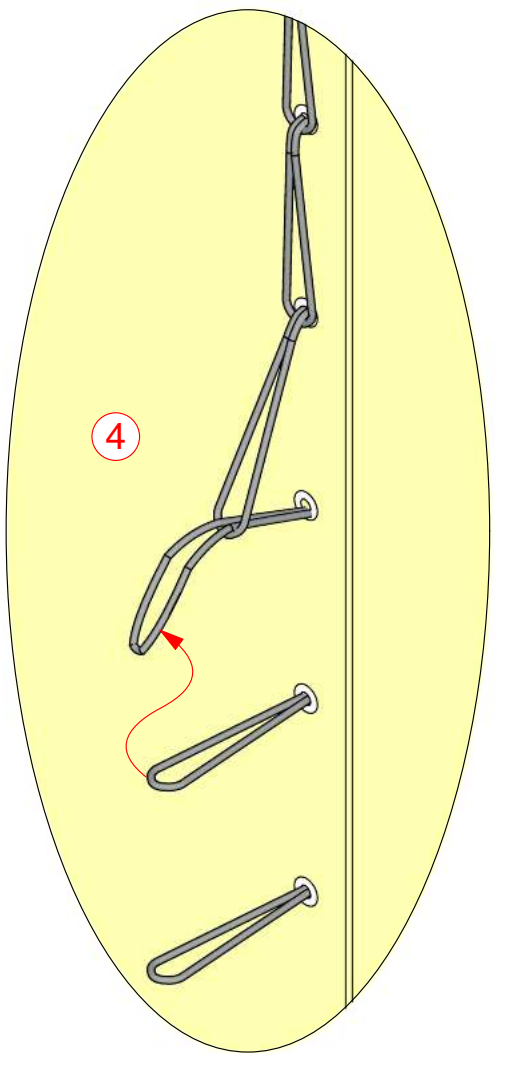
1. Attach Pull Over Ropes to Gable 'D'
2. Engage Keder in Rafter Extrusion
   -Lower Track
3. Pull Panel to Apex
4. Lace Gable together
5. Fit Tension Bars in Pocket
6. Tension Mid Panels
   - Engage Tensioner Bracket
   - Wind Reid Nut to tension









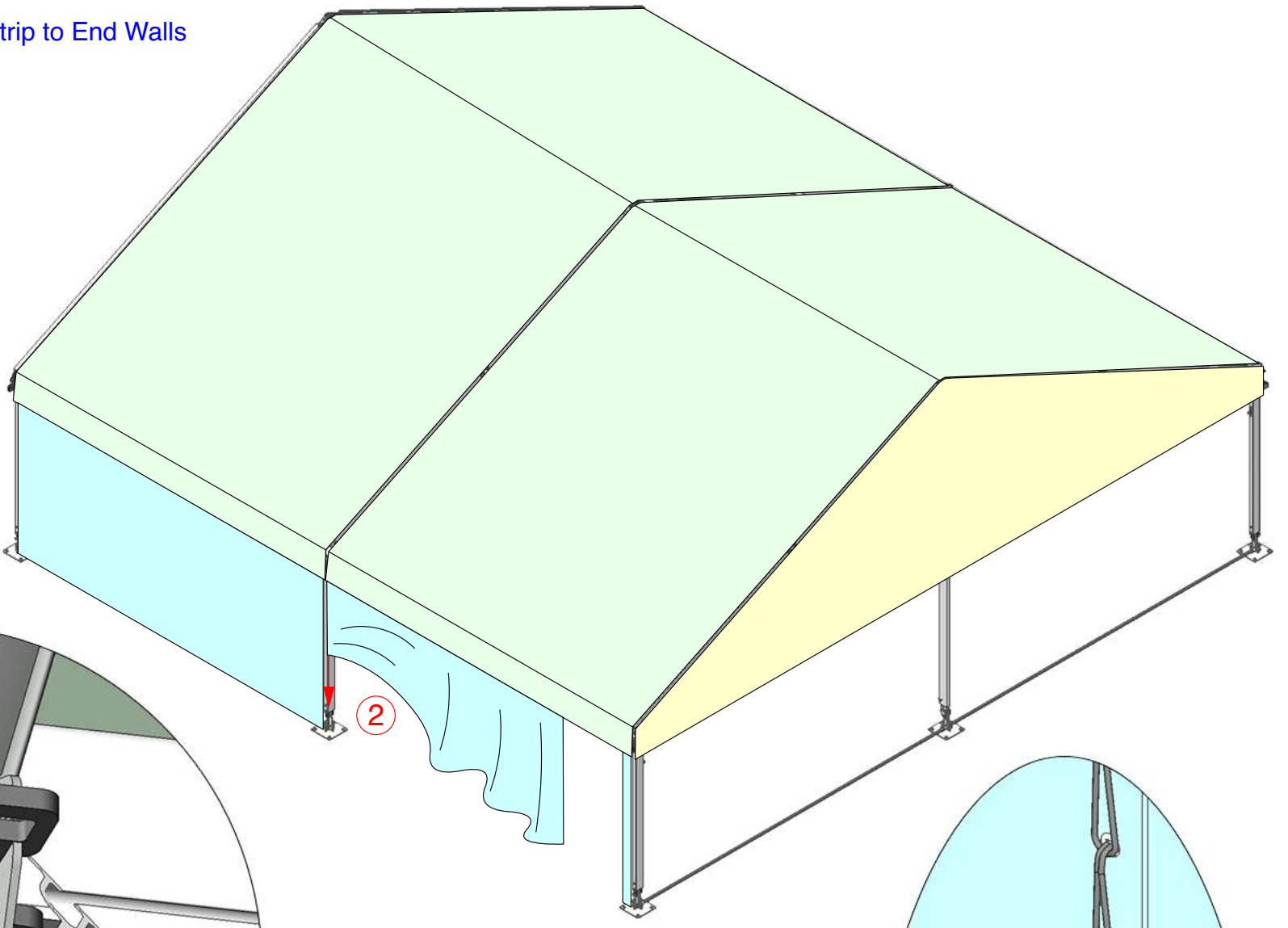


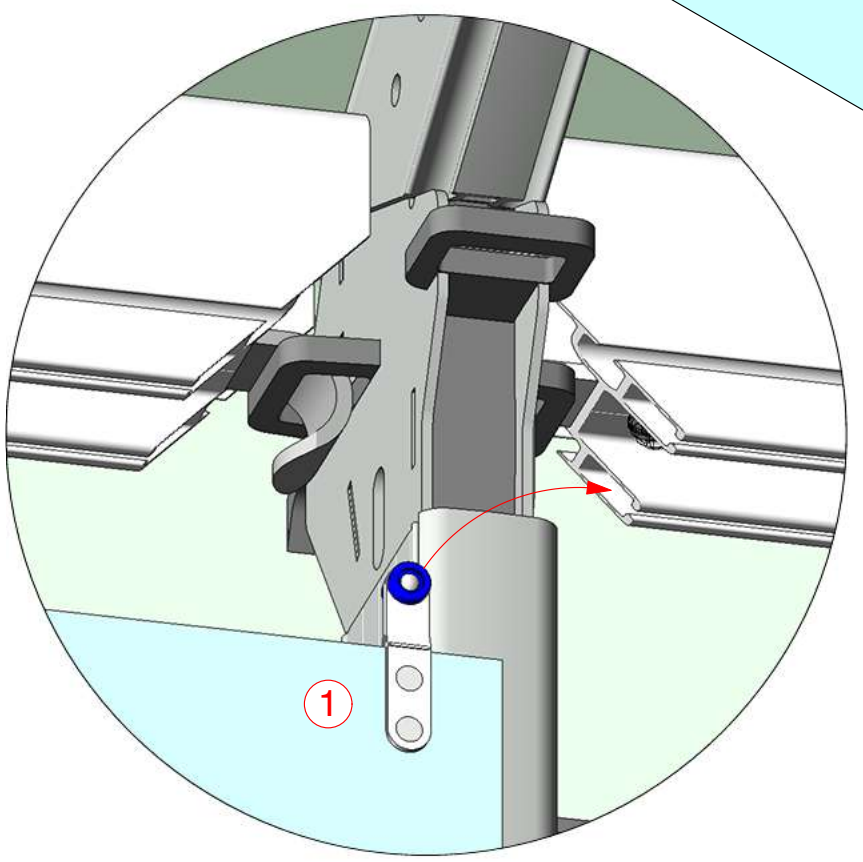
10m Square Frame Marquee

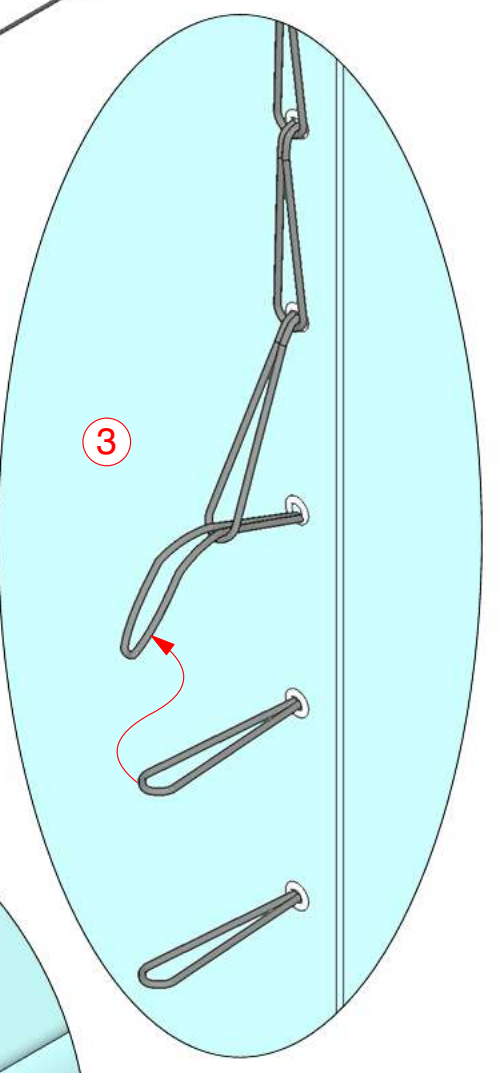
Wall Fabric Installation

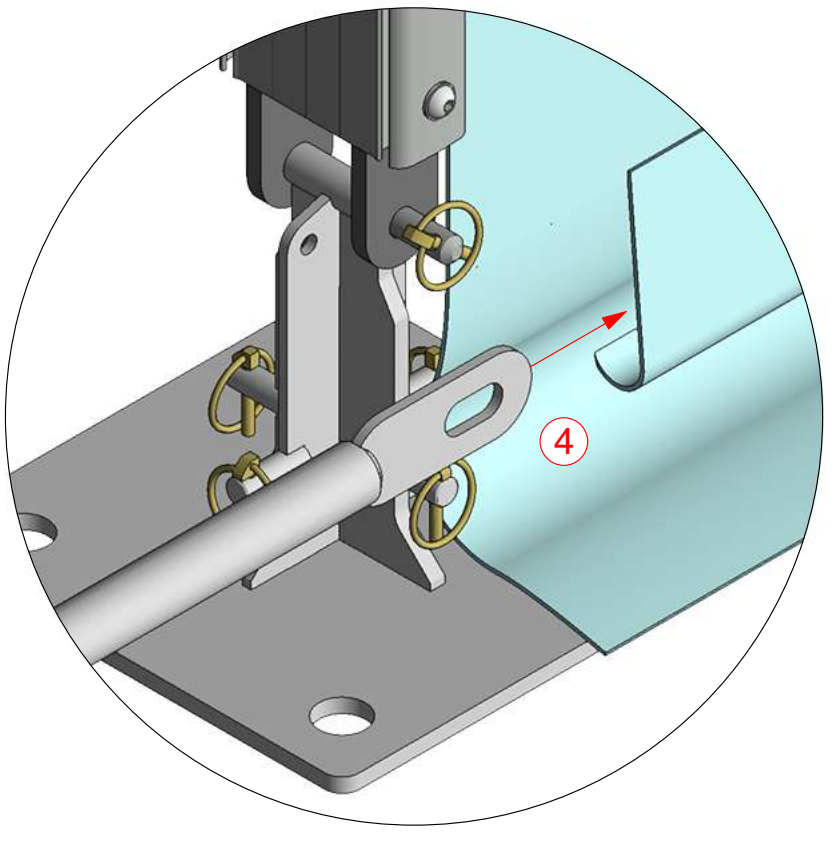
Note: Side Walls have wider Eyelet Strip to End Walls

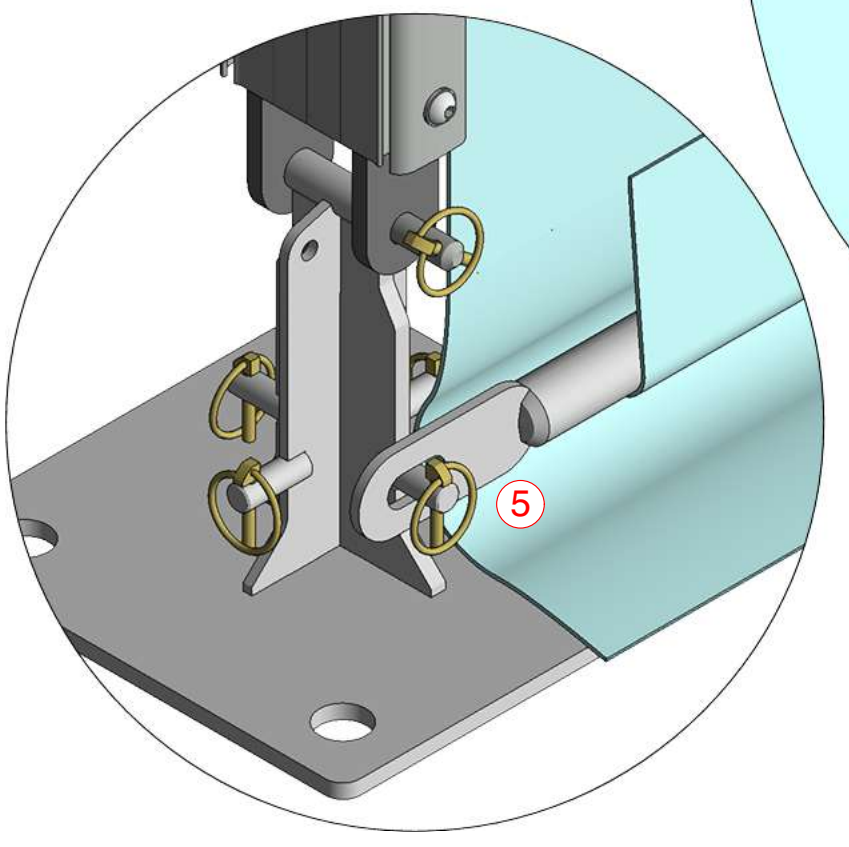
1. Fit Wall Roller into Eave Track
2. Feed Keder down Leg Tracks
3. Lace Walls together
4. Insert Base Rail in Pocket
5. Attach Base Rail to Base Foot
   - Use Lynch Pin











10m Square Frame Marquee

Frame Layout Examples

1. Plan Site Layout, Marquee Length and bays to be braced

General Rules
- Gable end portal each end (Red)
- Mid portals in between (Black)
- Roof brace wires each end bay.
- Additional bracing at 25m then every 4th bay thereafter.