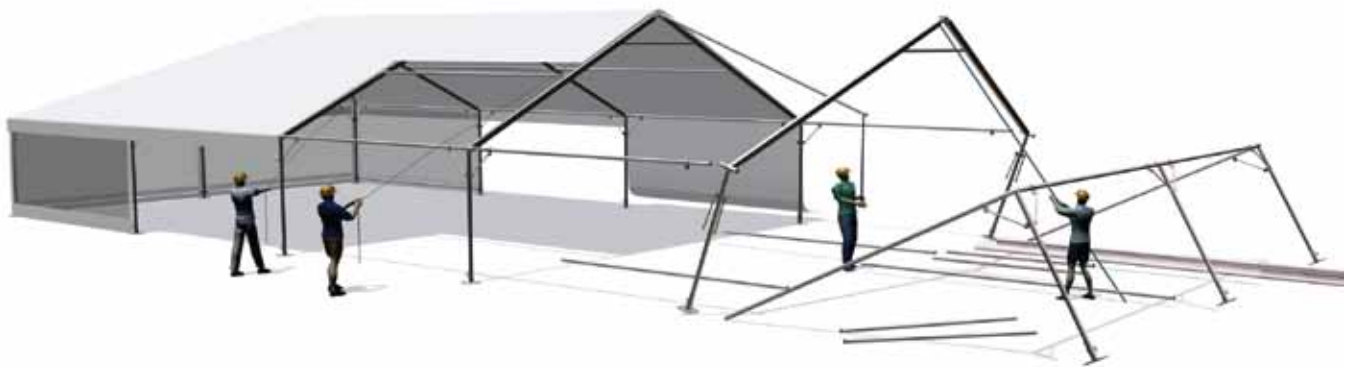


# 10m CLIPFRAME HIP END

## Assembly Instructions

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SIMPLICITY · PERFORMANCE · STYLE

---

#### New Zealand

52 Newton Street,  
PO Box 4370, Mount Maunganui  
New Zealand

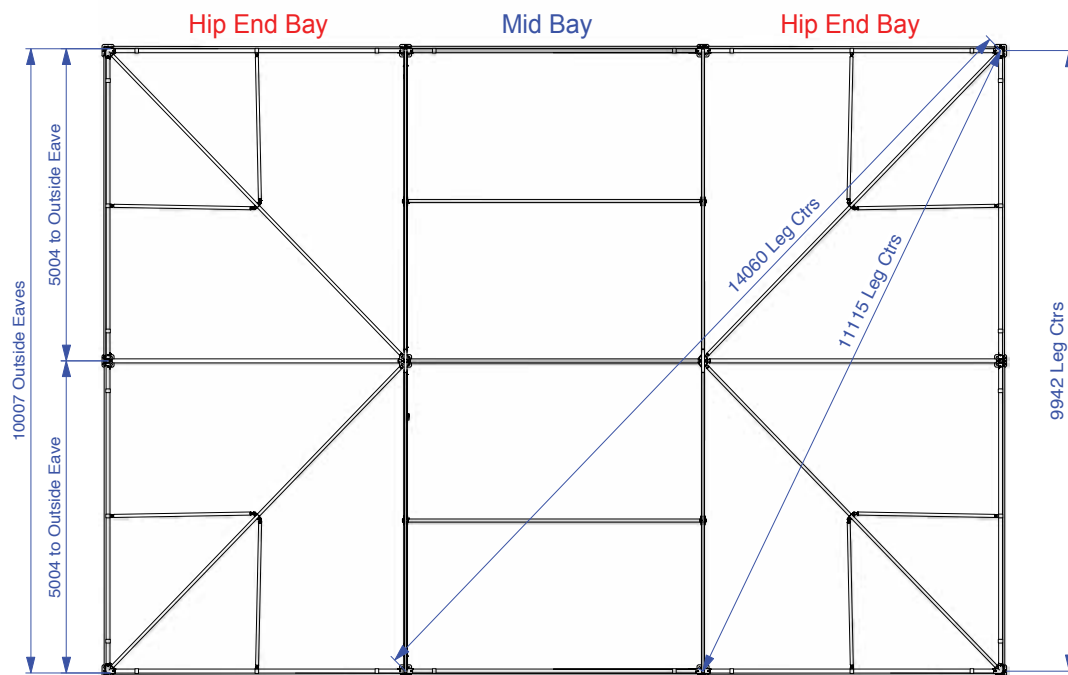
tel +64 7 579 0190  
fax +64 7 579 0194  
[www.baytex.co.nz](http://www.baytex.co.nz)

#### Australia

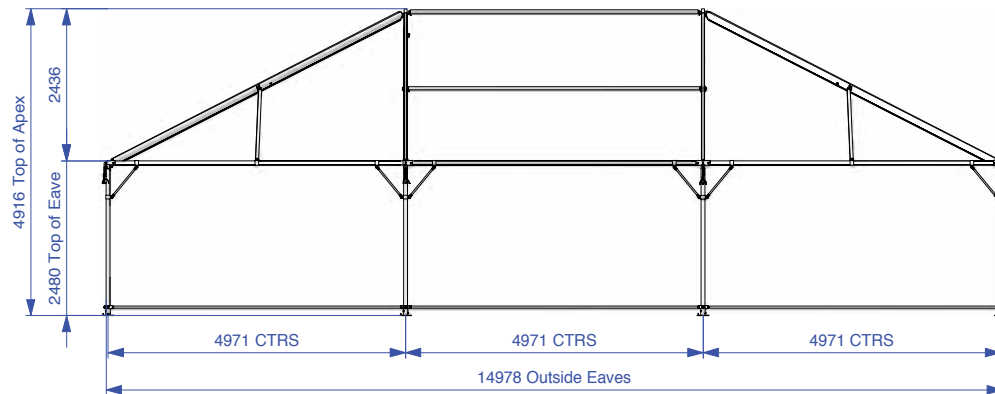
tel 02 4340 4144  
mob 0400 312 314

# 10m CLIPFRAME HIP END

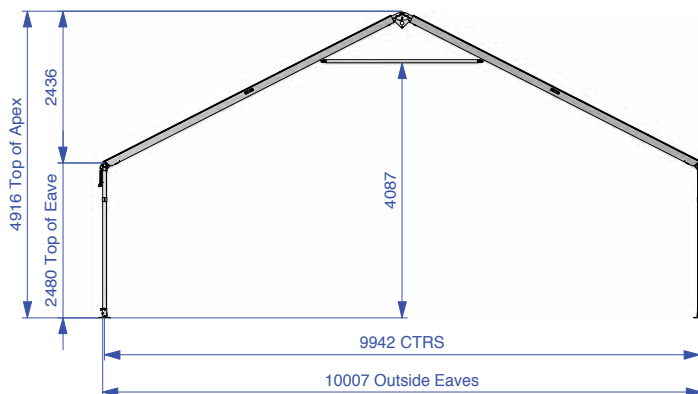
## Plans & Elevations



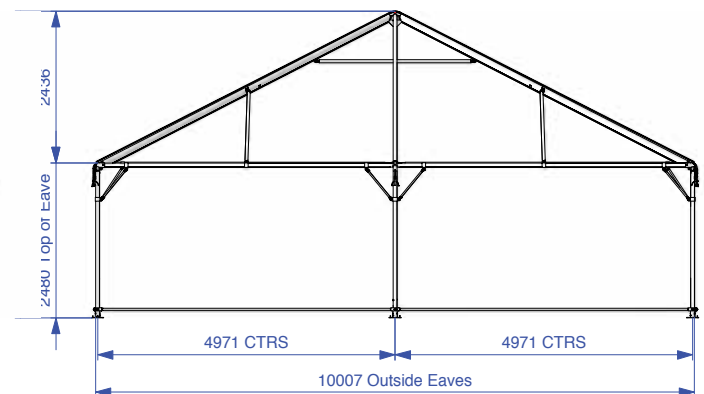
003/1 Plan View  
Scale 1:85



003/2 Side View  
Scale 1:85



003/3 Mid Portal  
Scale 1:85



003/4 End View  
Scale 1:85

# 10m CLIPFRAME HIP END

## Parts Identification



### Hip End Bays Hardware List

Ref.	Part Name	Qty	Part Number
1	Apex Connector Mid - Channel Tube 26°	1	70.707
2	Ø65 Corner Connector	4	70.842
3	Ø65 Tee Connector	2	70.843
4	Ø65 Shoulder Connector 26°	2	70.738
5	Tensioner Set	8	
a	- (x1) 16mm Reid Bar Nut		-
b	- (x1) Tensioner Hook		70.841
c	- (x1) Tensioner Bracket Hook Rod		72.716
6	10m Side Rafter - Channel Tube	2	70.510.006
7	10m Hip Rafter - AliRail (2 Pieces)	4	
b	- (x1) Upper Hip Rafter		70.510.012
c	- (x1) Lower Hip Rafter		70.510.012
8	10m End Rafter - Ø65mm	2	70.510.019
9	Ø65 Ridge Purlin 5m	0	70.788
10	Ø50 Intermediate Purlin 5m	0	70.792
11	Ø65 Eave Purlin 5m (3 Way)	8	70.76
12	Base Rail - 4.97m	8	70.785
13	Ø25 Brace bar	16	70.742
14	10m Apex Brace / Hip Brace	9	70.510.016
15	90° Ø65 Leg - 2.4m	4	70.782
16	180° Ø65 Leg - 2.4m	4	70.783
17	Ø65mm Base Foot	8	70.741

### Hip End Bays Fabric List

B	10m x 10m Hip End Roof (2 Pieces)	1	70.310.600
C	5m x 2.4m Wall	8	60.014.50

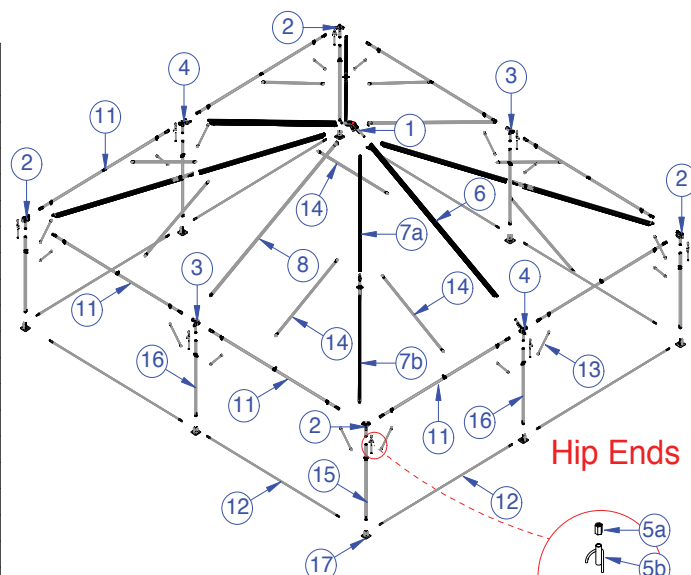
### Mid Bay Hardware List

(Bay Quantity = 1)

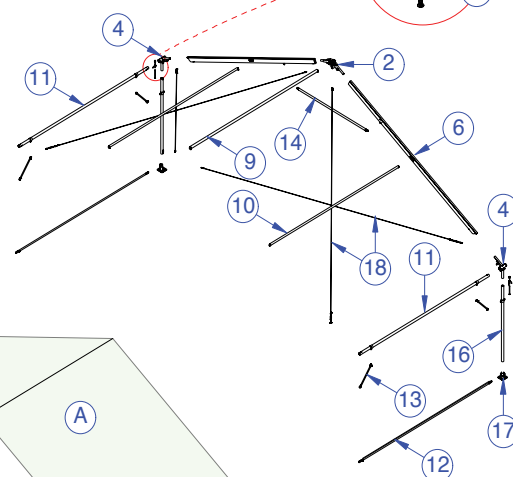
Ref.	Part Name	Qty	Part Number
2	Apex Connector Mid - Channel Tube 26°	1	70.707
4	Ø65 Shoulder Connector 26°	2	70.840
5	Tensioner Set	2	
a	- (x1) 16mm Reid Bar Nut		-
b	- (x1) Tensioner Hook		70.841
c	- (x1) Tensioner Bracket Hook Rod		72.716
6	10m Side Rafter - Channel Tube	2	70.510.006
9	Ø 65 Ridge Purlin 5m	1	70.788
10	Ø 50 Intermediate Purlin 5m	2	70.792
11	Ø65 Eave Purlin 5m (2 way)	2	70.787
12	Base Rail - 4.97m	2	70.785
13	Ø 25 Brace bar	4	70.742
14	Apex Brace / Hip Brace	1	70.510.016
16	Ø65 Leg - 2.4m, 180°	2	70.783
17	Ø 65mm Base Foot	2	70.741
18	Roof Brace Cable Set	0	70.510.023

### Mid Bay Fabric List

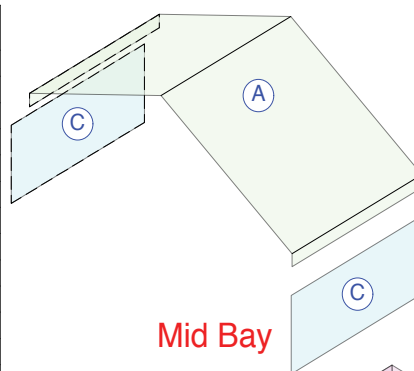
A	10m x 5m Mid Roof	1	70.310.660
C	5m x 2.4m Wall	2	60.025



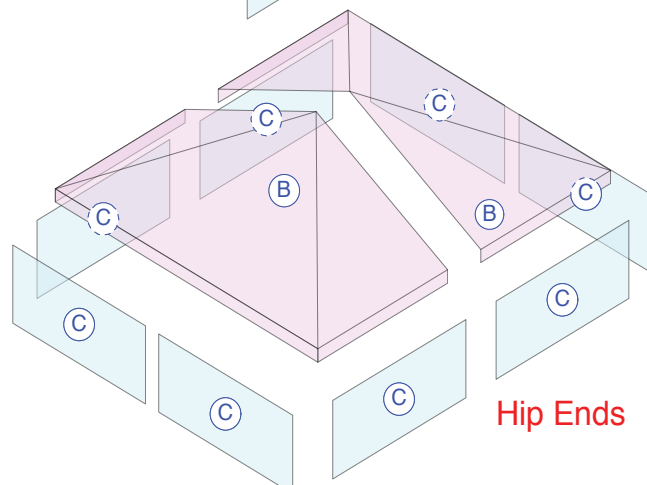
Hip Ends



Mid Bay



Mid Bay



Hip Ends

# 10m CLIPFRAME HIP END

## Parts Identification



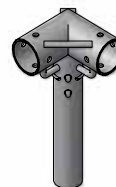
### 1. Apex Connector Mid - Channel Tube 26°

-To use with Channel Tube Rafter



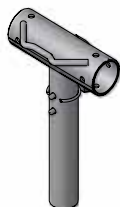
### 2. Ø65 Corner Connector

-To use with Ø65mm Eave & Leg



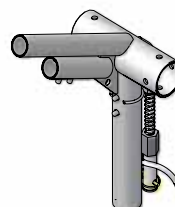
### 3. Ø65 Tee Connector

-To use with Ø65 Eave & Leg



### 4. Ø65 Shoulder Connector 26°

-To use with Channel Tube Rafter and Ø65mm Leg

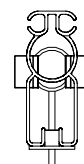
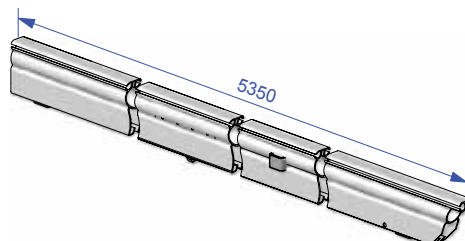


### 5. Tensioner Set

-Includes: (x1) 16mm Reid Bar Nut, (x1) Tensioner Hook, (x1) Tensioner Hook Adjuster

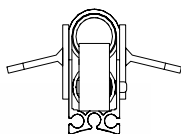
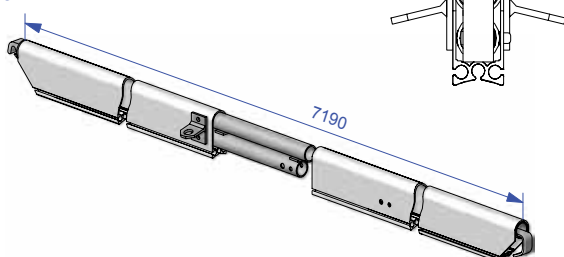


### 6. 10m Side Rafter - Channel Tube

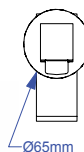
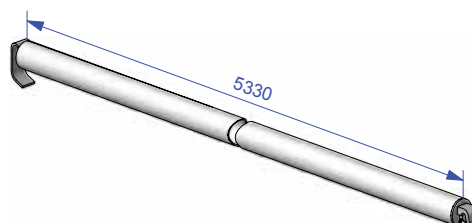


### 7. 10m Hip Rafter - AliRail

- 2 piece

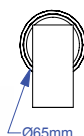
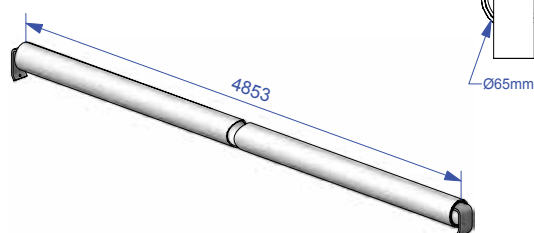


### 8. 10m End Rafter - Ø65mm



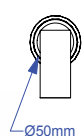
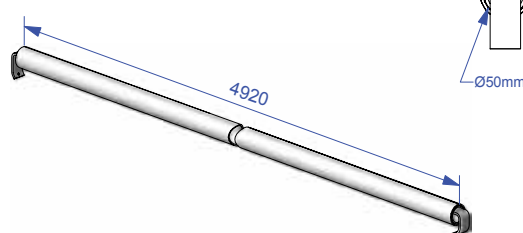
### 9. Ø65 Ridge Purlin 5m

-5m Bay



### 10. Ø50 Intermediate Purlin 5m

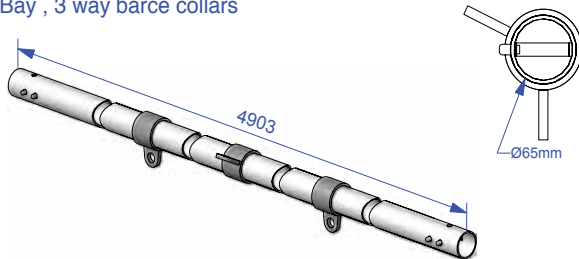
-5m Bay



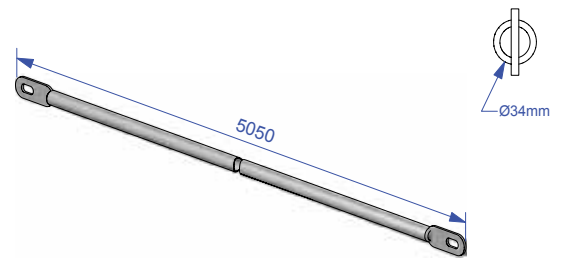
# 10m CLIPFRAME HIP END

## Parts Identification

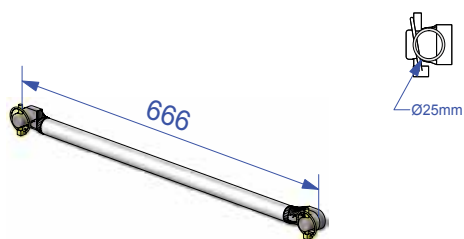
**11. Ø65 Eave Purlin 5m (3 way)**  
-5m Bay , 3 way barce collars



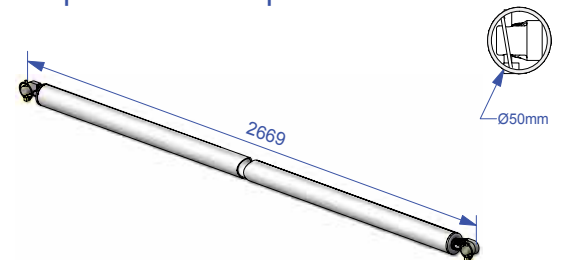
**12. Base Rail - 4.97m**



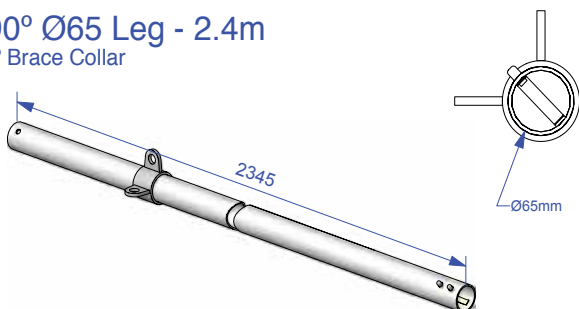
**13. Ø25 Brace Bar**



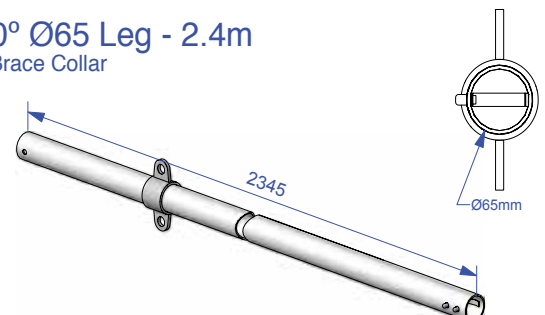
**14. 10m Apex Brace / Hip Brace**



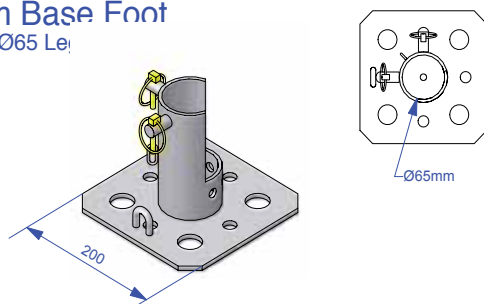
**15. 90° Ø65 Leg - 2.4m**  
- 90° Brace Collar



**16. 180° Ø65 Leg - 2.4m**  
- 180° Brace Collar

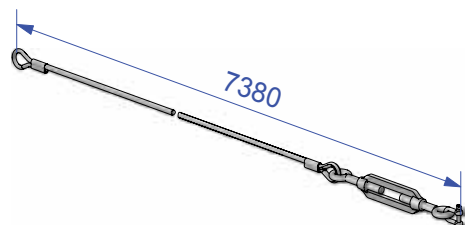


**17. Ø65mm Base Foot**  
- To use with Ø65 Leg



**18. Roof Brace Cable Set**

- Includes: (x4) Ø5mm Cable, (x4) Turnbuckle, (x4) Shackle



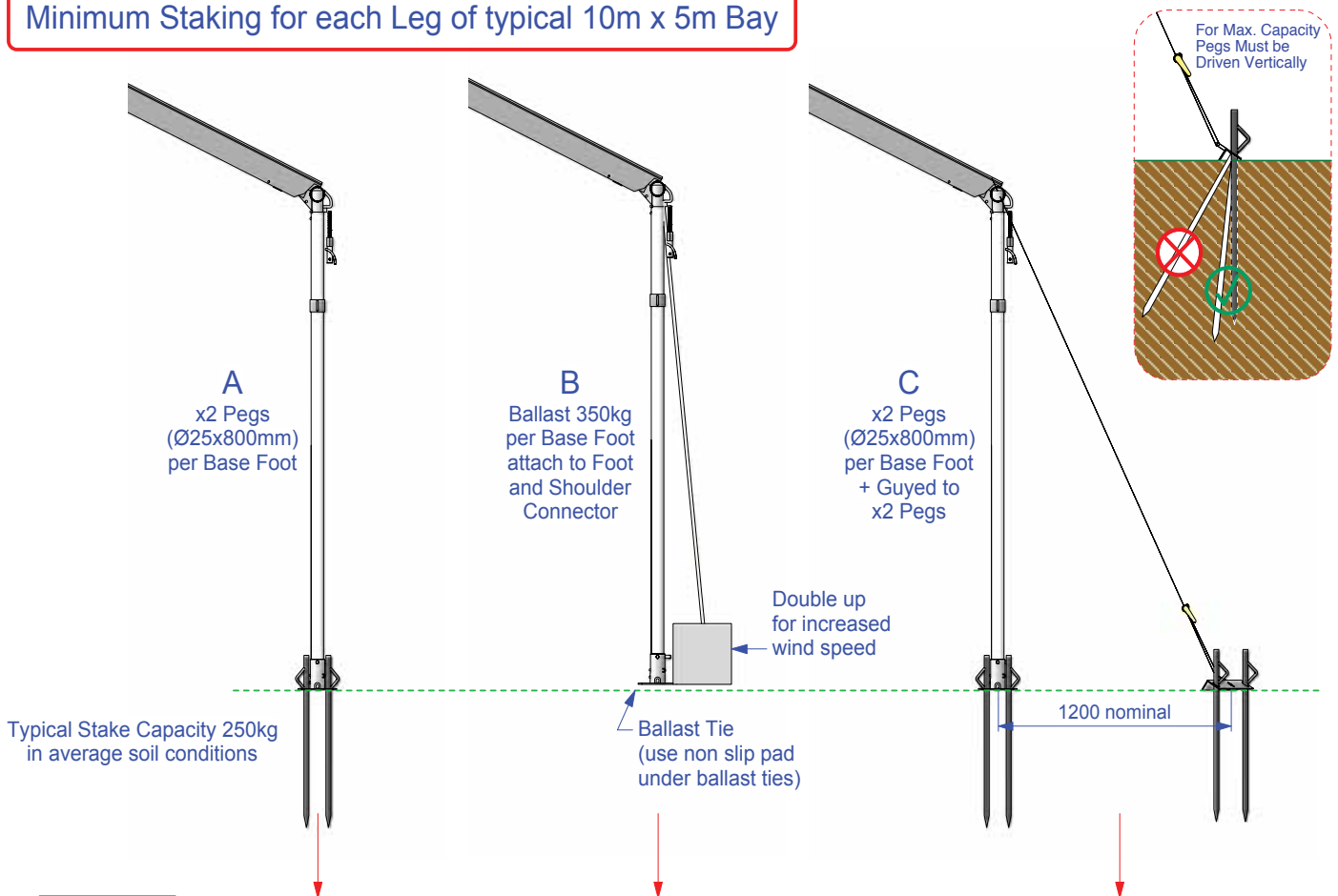


# 10m CLIPFRAME HIP END

## Recommended Staking Options



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



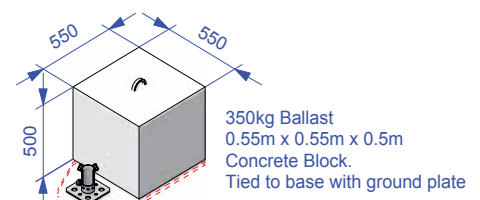
Wind Speed

	<b>A</b>		<b>B</b>			<b>C</b>
0km/h	engineered	estimated	engineered	estimated	estimated	engineered
10km/h						
20km/h						
30km/h	Nominal Stake Capacity 250kg. 2 Stakes per base. 1.5 x safety factor.	1 stake		250kg Ballast		Nominal Stake Capacity 250kg. 2 Stakes per base. + 2 Stakes per outguy 1.5 x safety factor.
40km/h						
50km/h			350kg Ballast			
60km/h	Over 50km/h - All Walling to be fitted and closed					
70km/h						
80km/h						
90km/h	Over 80km/h - All Fabric to be Removed from Frame					
100km/h	Frame may be left standing					

Recommended Staking Options. Based on average Soil Conditions.

Consider Location factors  
eg: on Exposed Hilltop, limit speed to 50% of above.

In poor soil use more stakes or longer stakes.



# 10m CLIPFRAME HIP END

## End Frame Assembly

### Assemble Hip End Frame

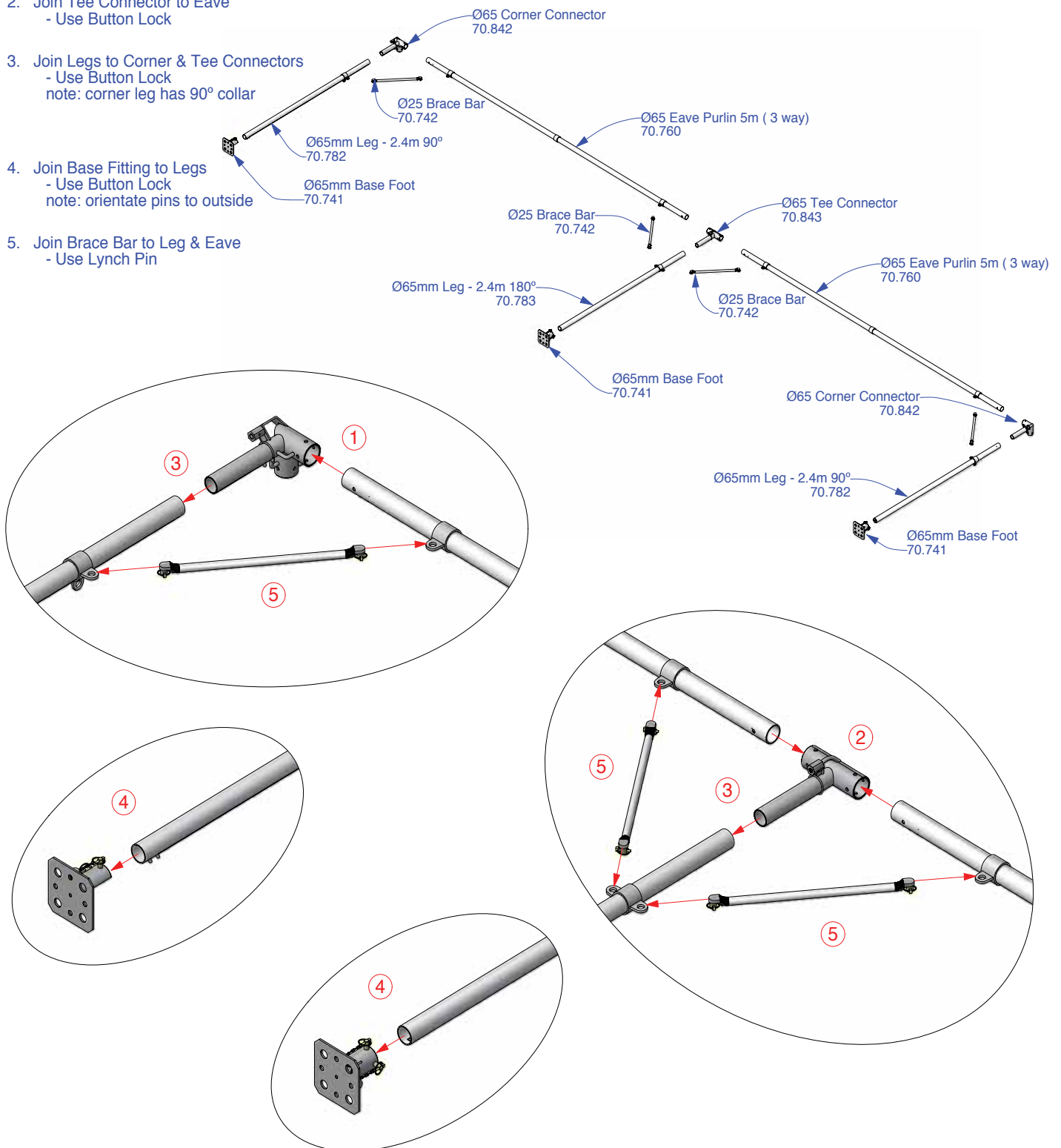
1. Join Corner Connector to Eave  
- Use Button Lock  
note: centre collar faces in & up

2. Join Tee Connector to Eave  
- Use Button Lock

3. Join Legs to Corner & Tee Connectors  
- Use Button Lock  
note: corner leg has 90° collar

4. Join Base Fitting to Legs  
- Use Button Lock  
note: orientate pins to outside

5. Join Brace Bar to Leg & Eave  
- Use Lynch Pin



# 10m CLIPFRAME HIP END

## Mid Frame Assembly



### Assemble Mid Portal

1. Join Shoulder Connector to Rafter  
- Use Button Lock

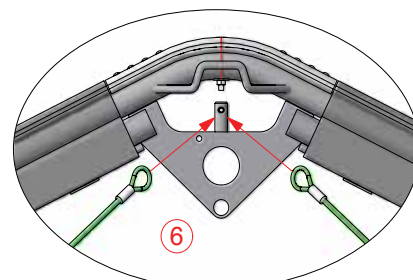
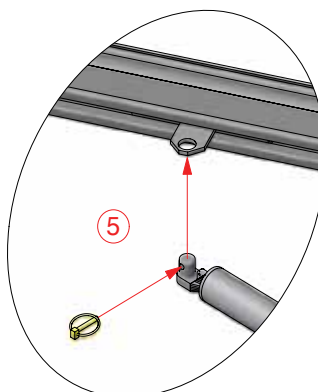
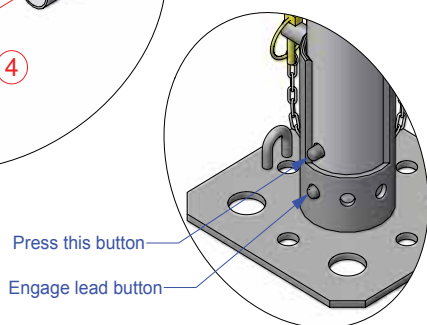
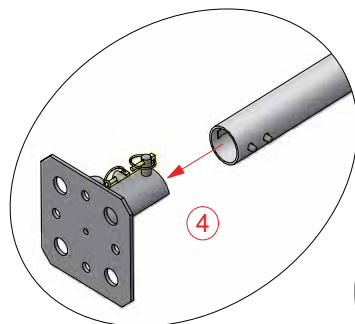
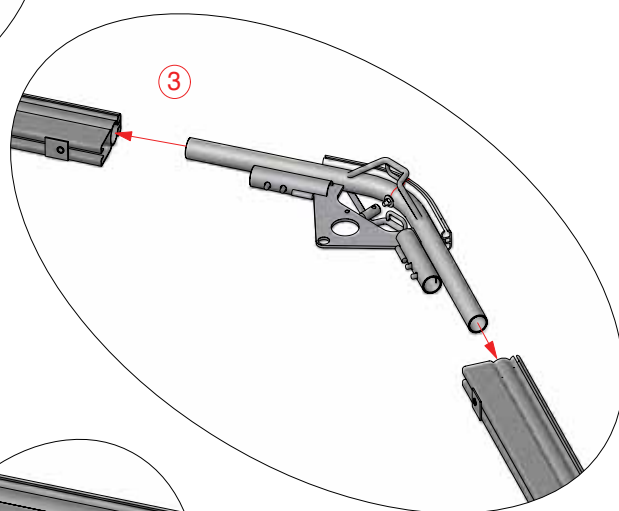
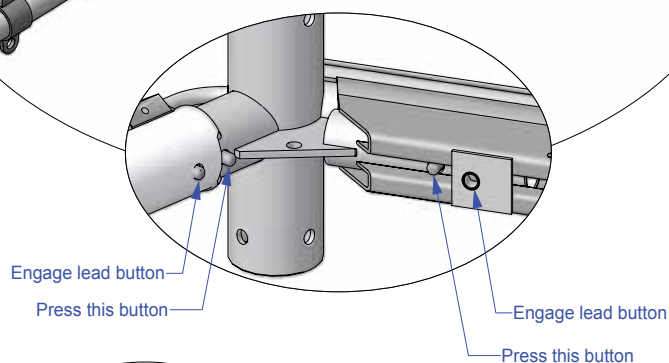
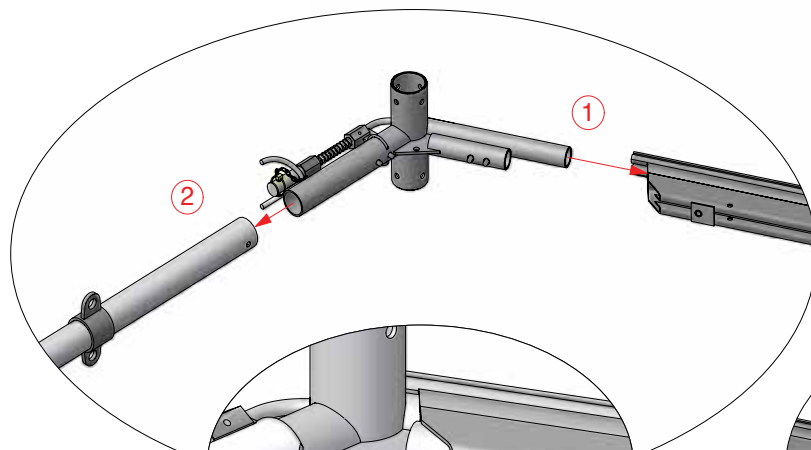
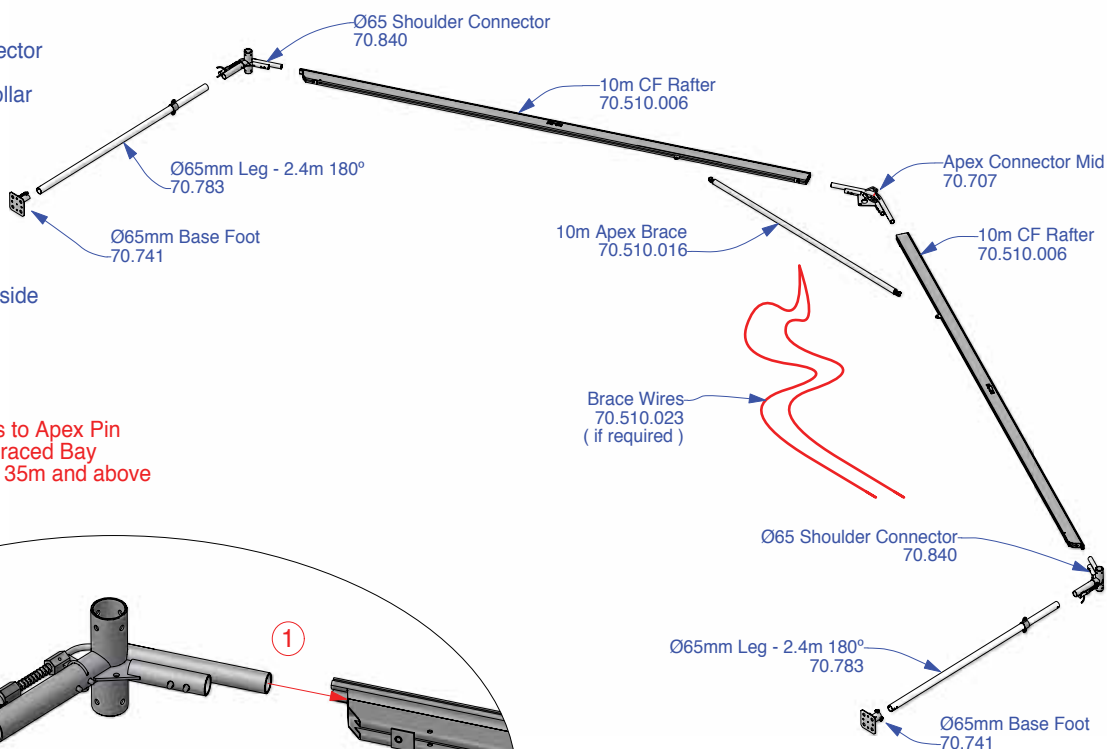
2. Join Leg to Shoulder Connector  
- Use Button Lock  
note: side leg has 180° collar

3. Join Rafters to Apex  
- Use Button Lock  
note: Mid Apex

4. Join Base Fitting to Leg  
- Use Button Lock  
note: orientate pins to outside

5. Join Apex Brace to Rafters  
- Use Lynch Pin

6. Attach 2 Roof Brace Cables to Apex Pin  
if Portal is adjacent to a Braced Bay  
-Note: Only required on 10m x 35m and above  
refer table page 15



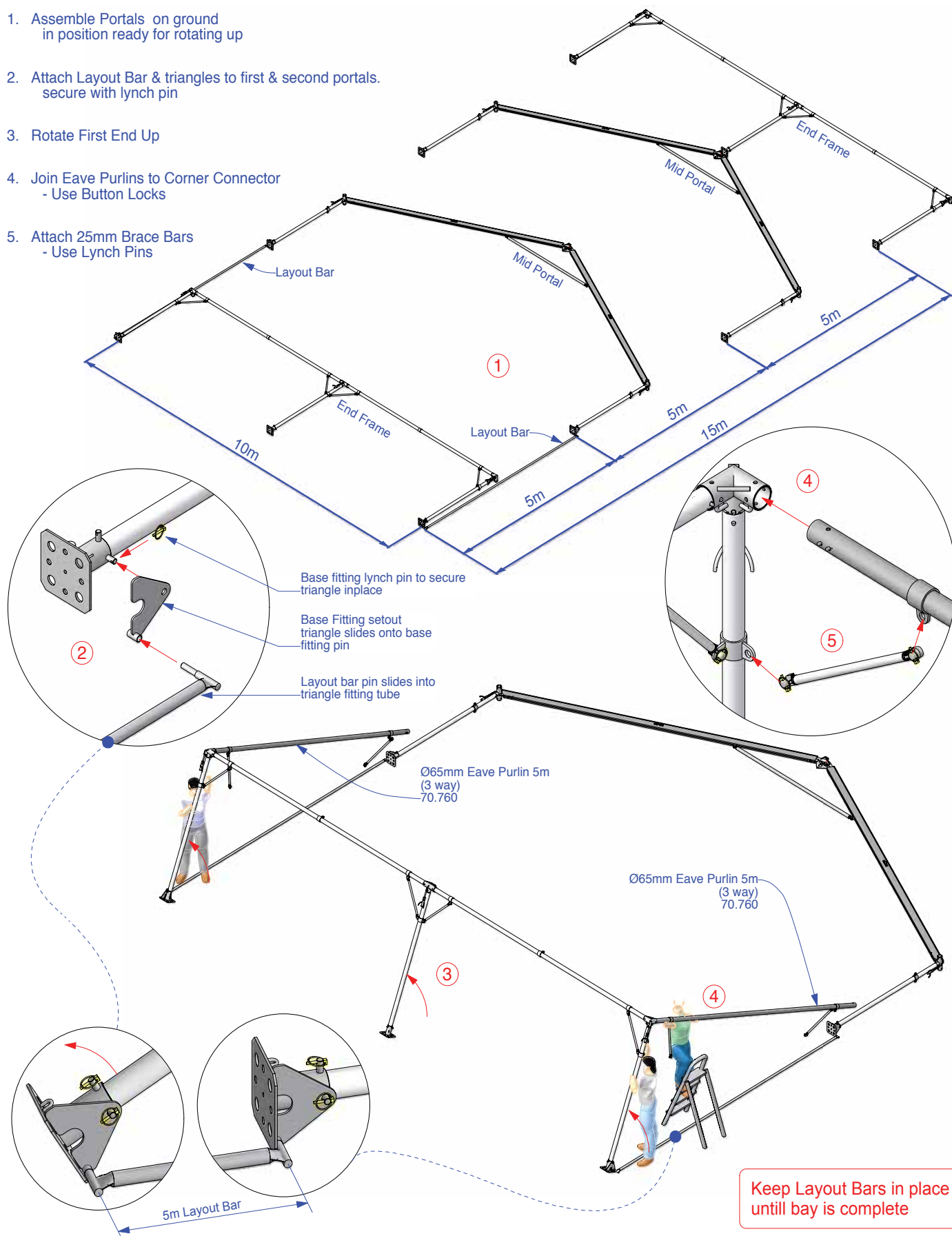


# 10m CLIPFRAME HIP END

## Portal Layout



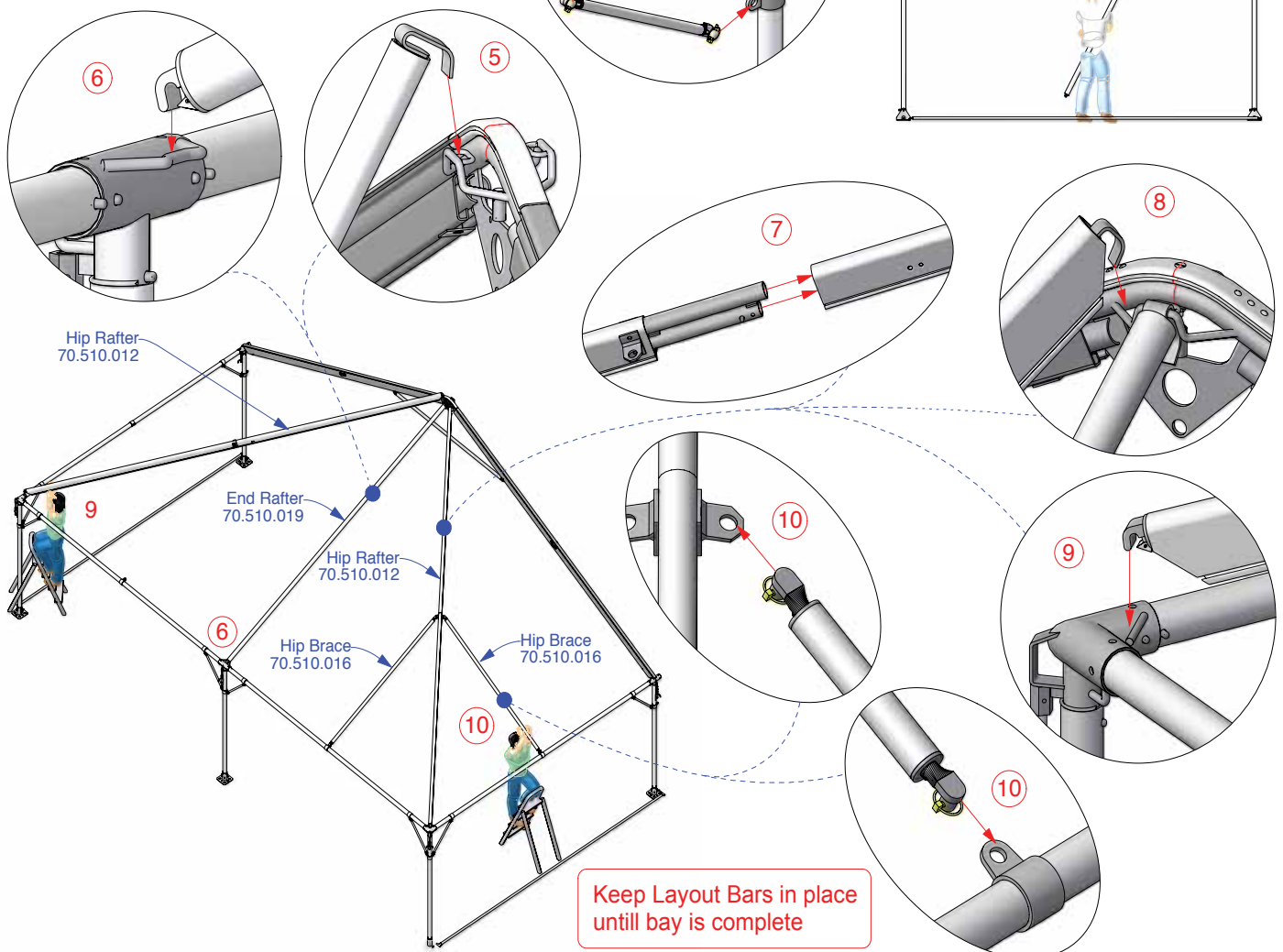
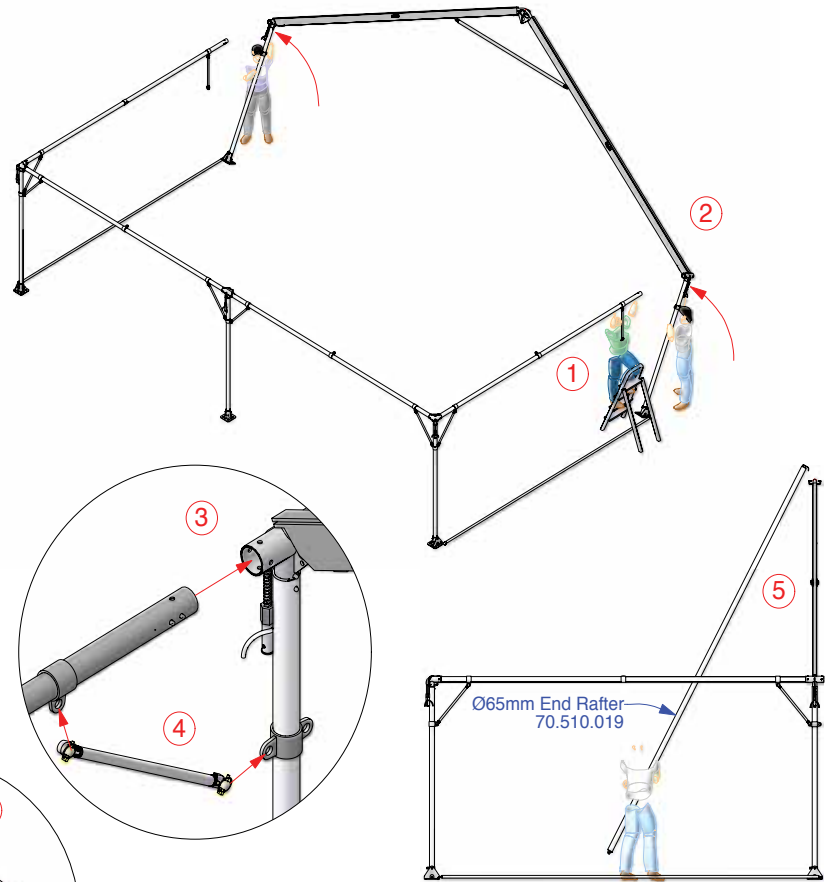
1. Assemble Portals on ground in position ready for rotating up
2. Attach Layout Bar & triangles to first & second portals. secure with lynch pin
3. Rotate First End Up
4. Join Eave Purlins to Corner Connector  
- Use Button Locks
5. Attach 25mm Brace Bars  
- Use Lynch Pins



# 10m CLIPFRAME HIP END

## End Frame Assembly

1. Rotate End Frame to Vertical  
Support Eave near Second Portal
2. Rotate Mid Portal to Vertical
3. Join Mid Portal to Eaves  
- Use Button Lock
4. Join Brace Bar to Second Portal  
- Use Lynch Pin
5. Hook End Rafter onto Mid Portal Apex  
note: curved hook
6. Rotate End Rafter up to End Frame Tee Connector  
- Use Clipset
7. Join Lower & Upper Hip Rafters  
- Use Button Lock
8. Hook Hip Rafter onto Mid Portal Apex  
note: curved hook
9. Rotate Hip Rafter up to End Frame Corner Connector  
- Use Clipset
10. Attach Hip Braces  
- Use Linch Pins

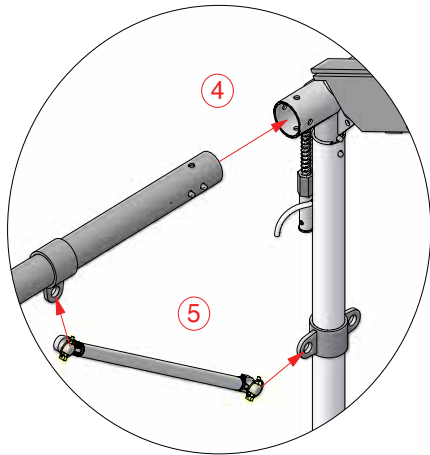
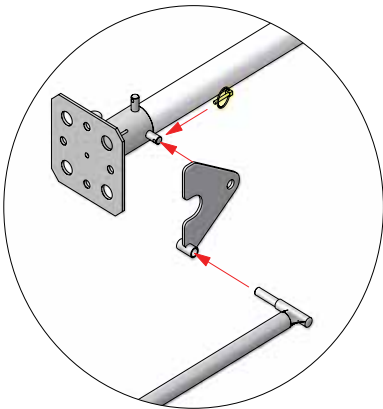
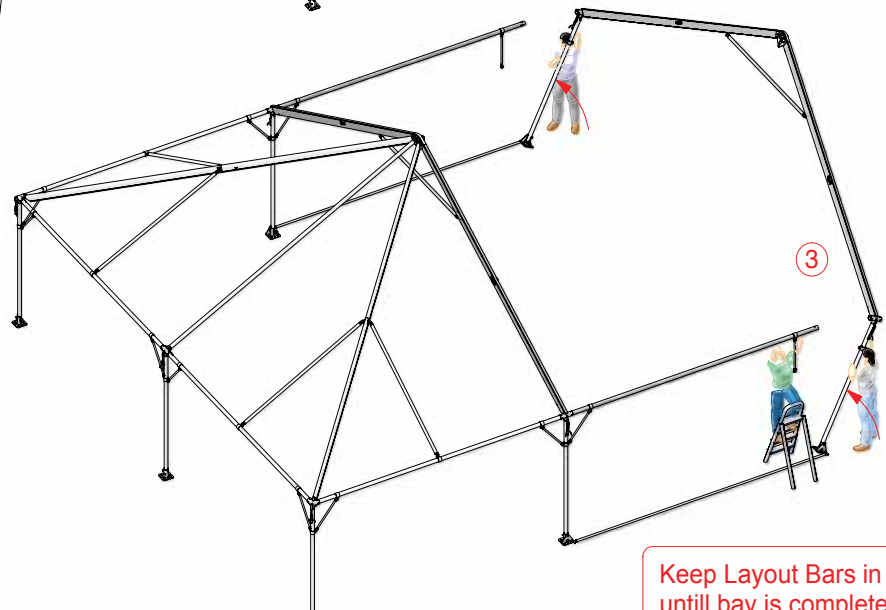
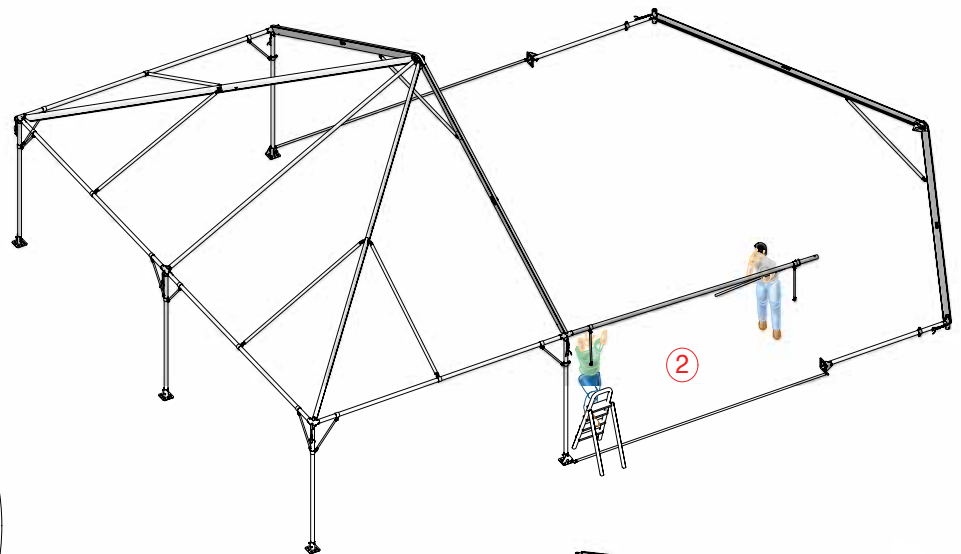
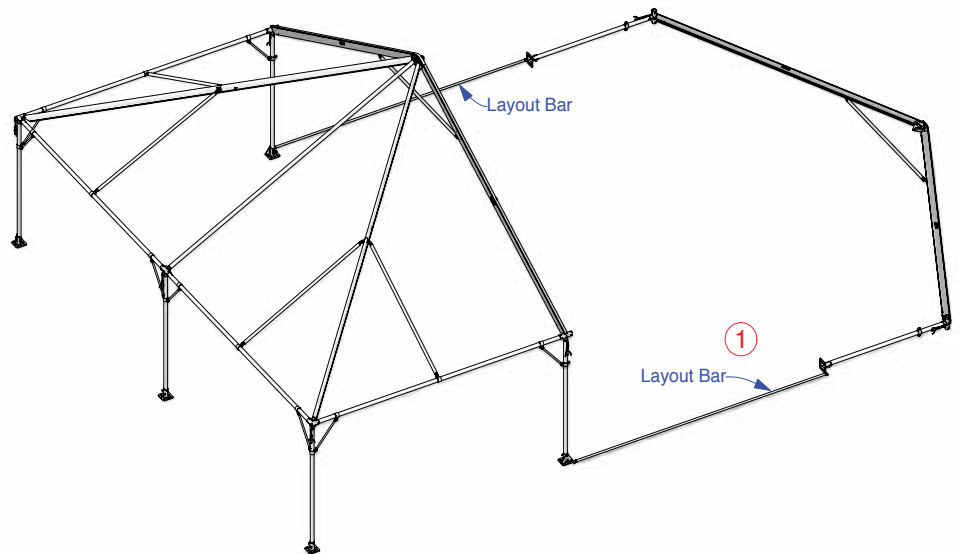


# 10m CLIPFRAME HIP END

## Continued Frame Assembly



1. Move Layout Bars to Next Bay  
- keep in place until bay complete
2. Attach Eave Purlins & Brace Bars
3. Rotate Next Portal up
4. Join Mid Portal to Eaves  
-Use button Lock
5. Attach Brace Bar  
-Use Lynch Pin



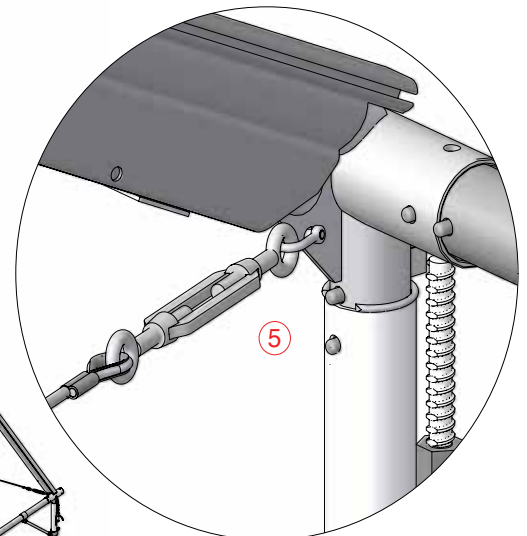
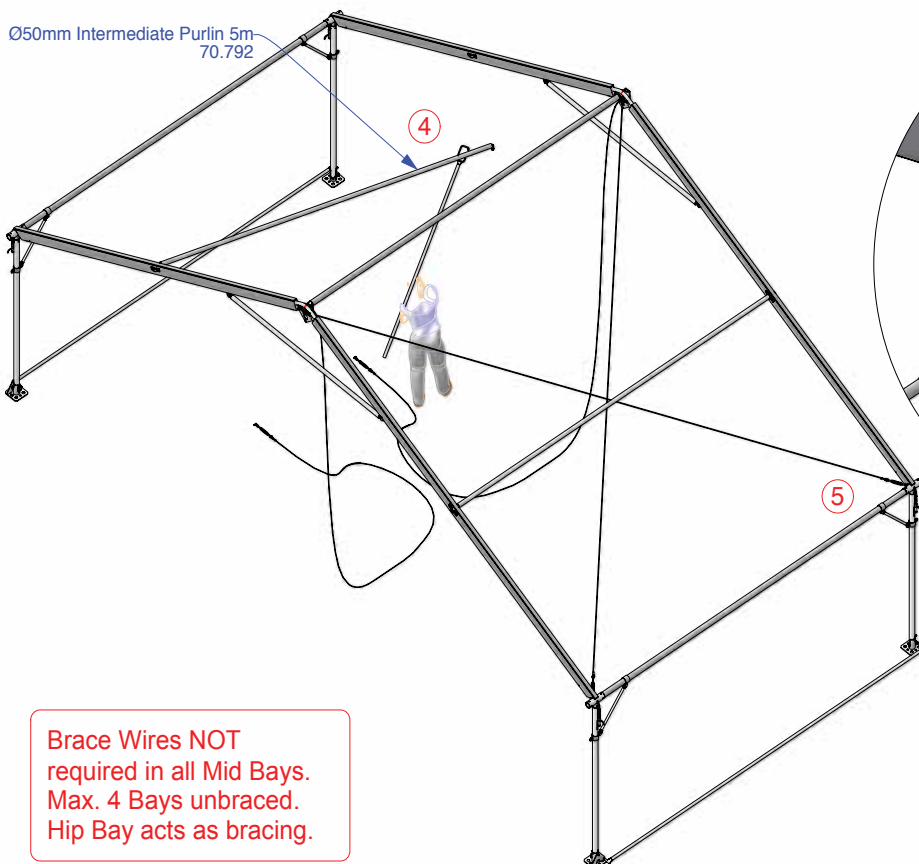
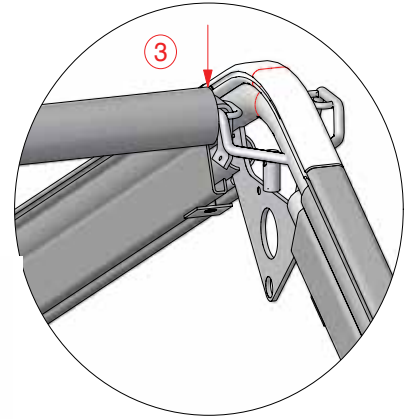
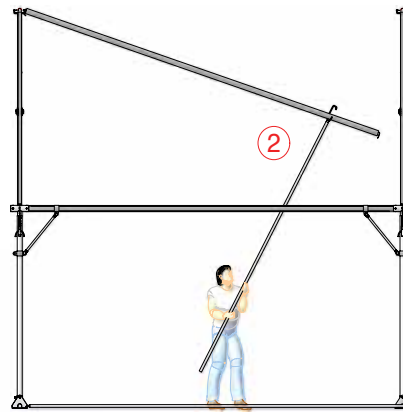
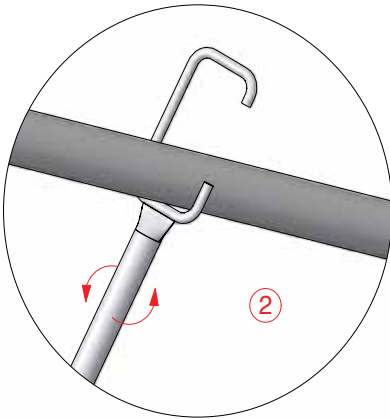
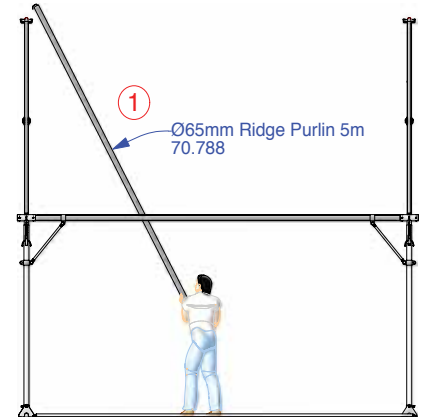
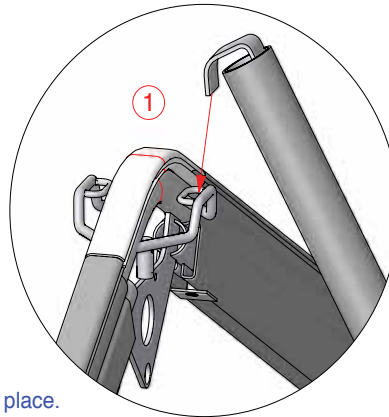
Keep Layout Bars in place  
until bay is complete

# 10m CLIPFRAME HIP END

## Mid Bay & Brace Wire Installation



1. Hook Ridge Purlin onto Mid Portal Apex  
note: curved hook
2. Rotate Ridge Purlin up to Second Mid Portal Apex  
- Use Purlin Fork. keep square to purlin  
- twist Purlin Fork to reduce sliding
3. Hook Ridge Purlin into Second Mid Portal Apex  
- Ensure Engaged
4. Install Intermediate Purlins  
- same process as Ridge Purlin
5. Attach Roof Brace Wires to Shoulders  
- Use Shackle  
- Do not fully tension turnbuckle until roof fabric is in place.



Brace Wires NOT  
required in all Mid Bays.  
Max. 4 Bays unbraced.  
Hip Bay acts as bracing.

Keep Layout Bars in place  
until bay is complete

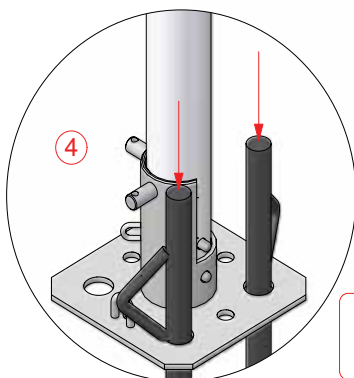
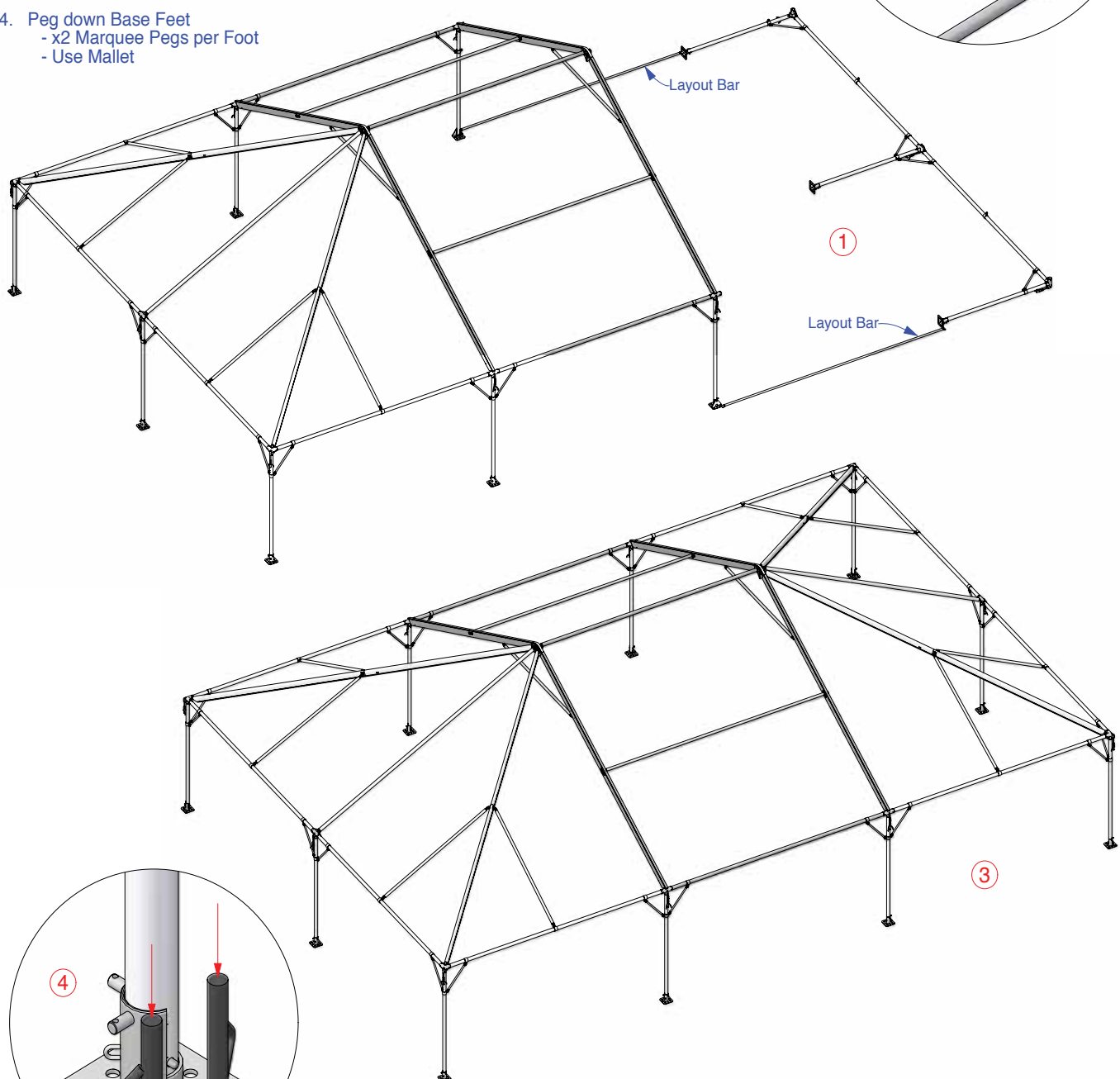
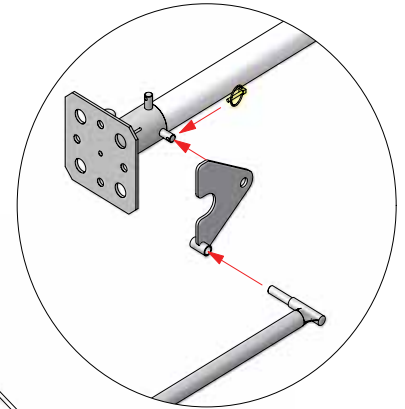


# 10m CLIPFRAME HIP END

## Continued Frame Assembly



1. Move Layout Bars to Next Bay  
- keep in place until bay complete
2. Continue Assembling each Mid Bay required per first.  
Consider braced bay placements.
3. Last Bay is a Hip End Bay  
- Assemble End Frame on Ground  
- Attach Layout bars  
- Attach Eave Purlins & Brace Bars  
- Rotate End Frame Up & join to Eave Purlins & Brace Bars  
- Attach End Rafter  
- Attach Hip Rafters. (briefly disengage corner/eave if difficult).  
- Attach Hip Braces
4. Peg down Base Feet  
- x2 Marquee Pegs per Foot  
- Use Mallet



Stake or Ballast Frame  
before Fabric Installed

Keep Layout Bars in place  
until bay is complete

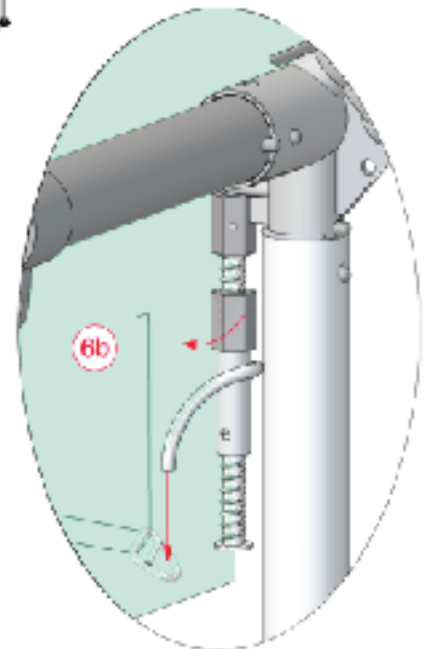
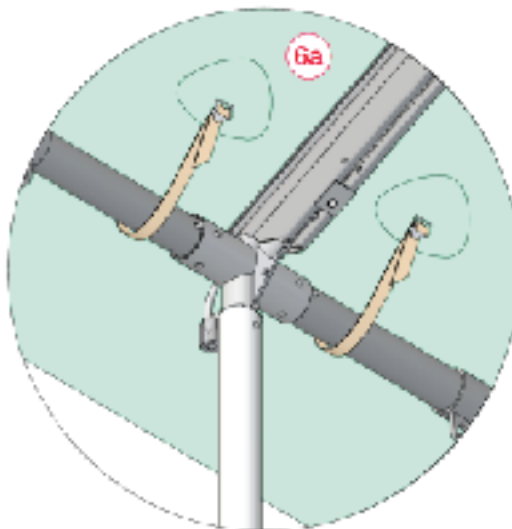
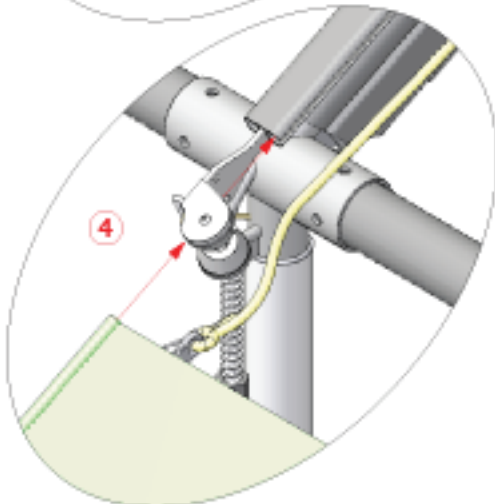
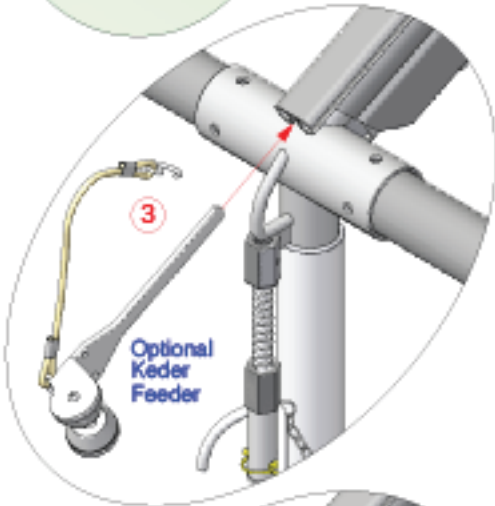
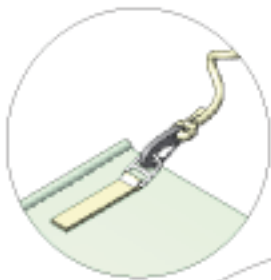
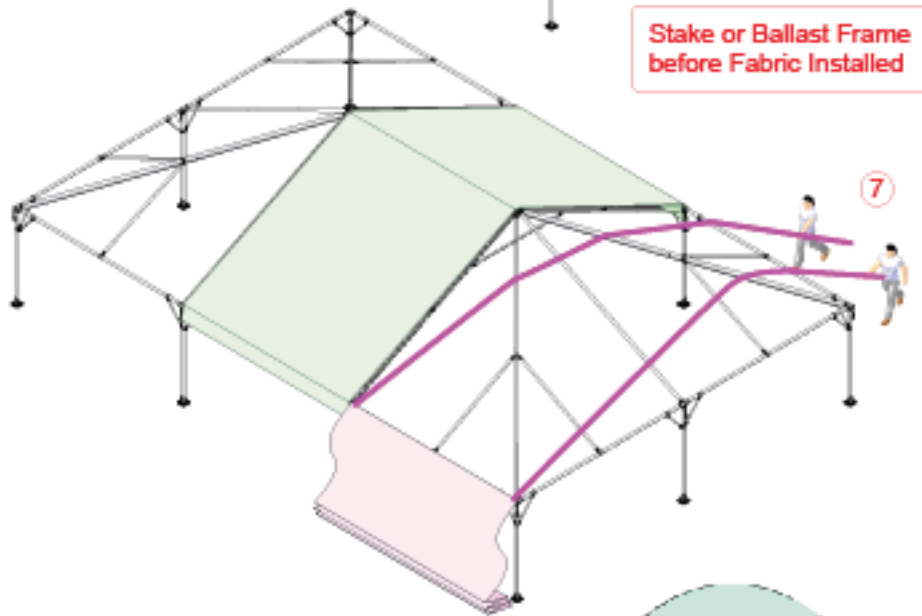
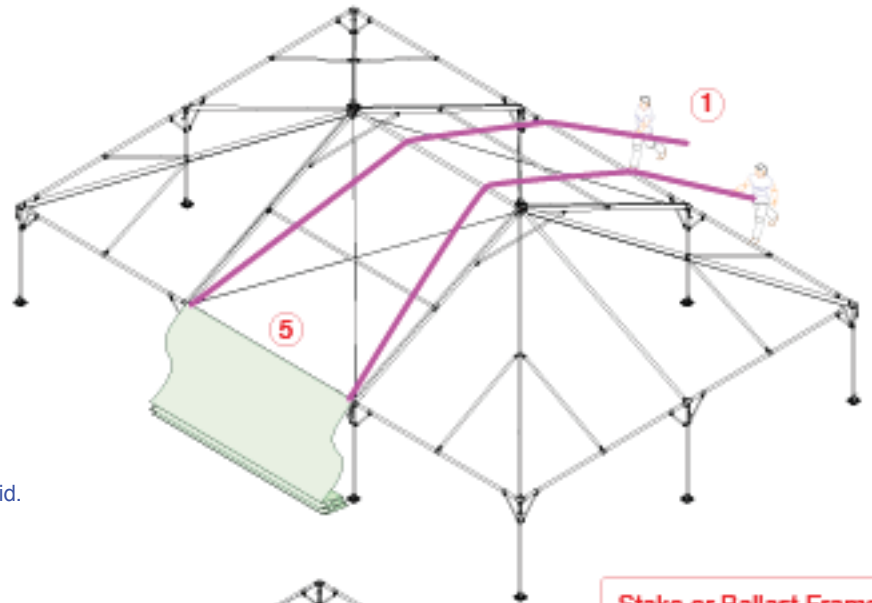


# 10m CLIPFRAME HIP END

## 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. Tension Mid Panels
  - 6a. Mk2 - Use Packlocks
  - 6b. Mk3 Tension System
7. Hip End Roof Fabric Installed the same as Mid.  
Ease Fabric over frame if snagged.

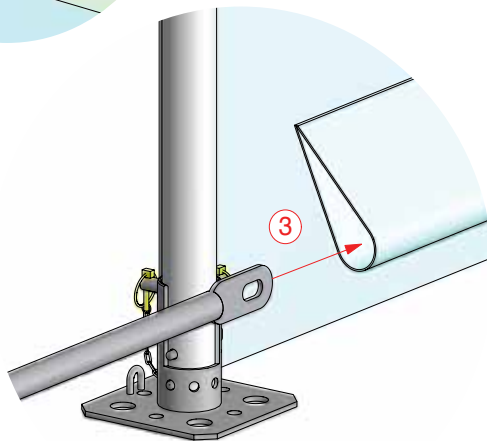
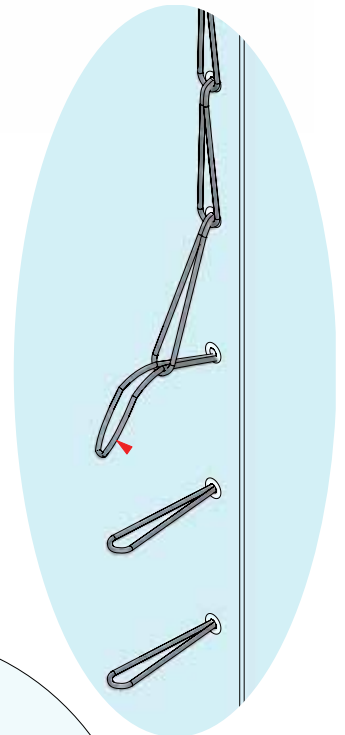
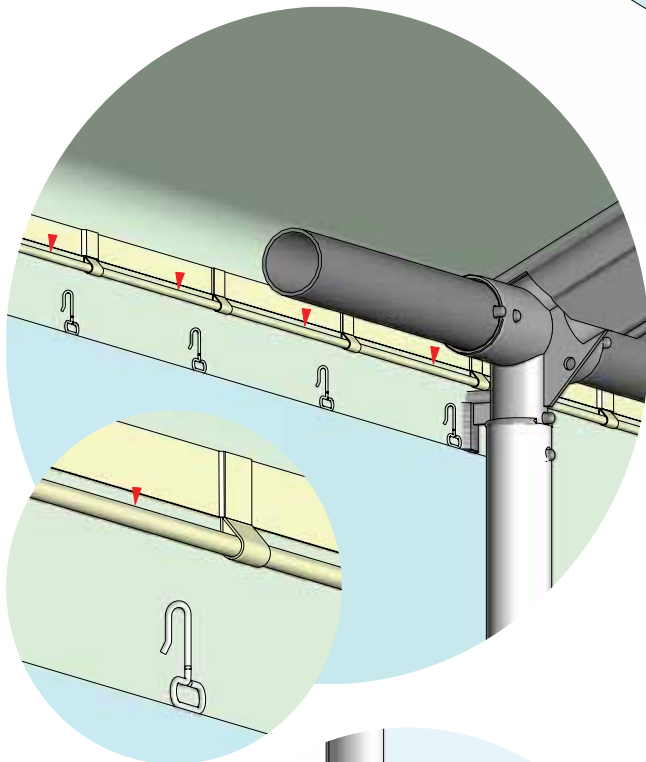
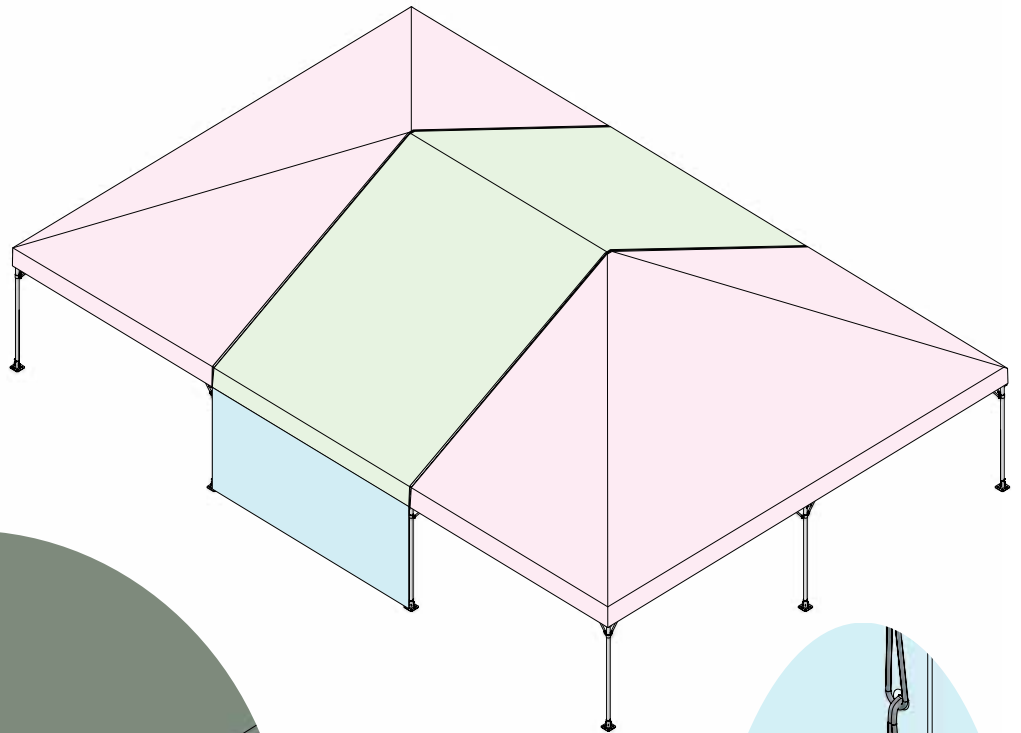


# 10m CLIPFRAME HIP END

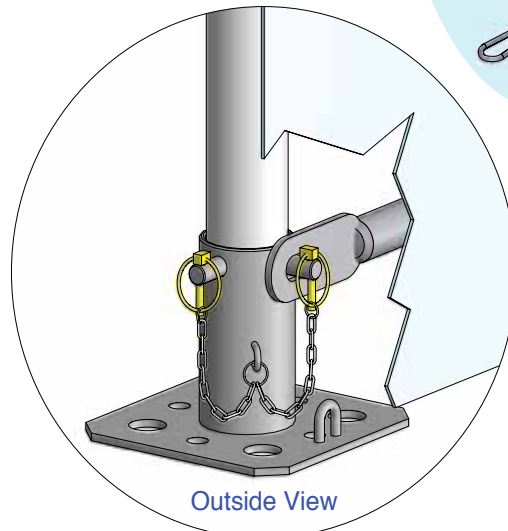
## Wall Fabric Installation



1. Hook Wall onto Wall cord of Roof  
- Pockets to inside
2. Lace Walls together behind leg
3. Insert Base Rail in Pocket
4. Attach Base Rail to Base Foot  
- Use Lynch Pin



Inside View



Outside View

# 10m CLIPFRAME HIP END

## Hip End Frame Layout Examples



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

#### General Rules

- Hip End each end Bay (Red)
- Mid Portals & Mid Bays in between (Black)
- Hip End acts as bracing Bay
- Maximum 4 bays unbraced in succession.

