10m CLIPFRAME HIP END
Assembly Instructions

SIMPLICITY · PERFORMANCE · STYLE

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10m CLIPFRAME HIP END
Plans & Elevations

Plan View

Side View

Mid Portal

End View
### Parts Identification

#### Hip End Bays Hardware List

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part Name</th>
<th>Qty</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>1</td>
<td>Apex Connector Mid - Channel Tube 26˚</td>
<td>1</td>
<td>70.707</td>
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<tr>
<td>2</td>
<td>Ø65 Corner Connector</td>
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<td>3</td>
<td>Ø65 Tee Connector</td>
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<td>4</td>
<td>Ø65 Shoulder Connector 26˚</td>
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<td>- (x1) 16mm Reid Bar Nut</td>
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<td>- (x1) Tensioner Hook</td>
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<tr>
<td>c</td>
<td>- (x1) Tensioner Bracket Hook Rod</td>
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<td>7</td>
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<td>- (x1) Upper Hip Rafter</td>
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<td>Ø65 Ridge Purlin 5m</td>
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<td>10</td>
<td>Ø50 Intermediate Purlin 5m</td>
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<td>11</td>
<td>Ø65 Eave Purlin 5m (3 Way)</td>
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<td>12</td>
<td>Base Rail - 4.97m</td>
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<td>Ø25 Brace bar</td>
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<td>14</td>
<td>10m Apex Brace / Hip Brace</td>
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<td>15</td>
<td>90˚ Ø65 Leg - 2.4m</td>
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<td>16</td>
<td>180˚ Ø65 Leg - 2.4m</td>
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<td>17</td>
<td>Ø65mm Base Foot</td>
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#### 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)

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<td>16</td>
<td>Ø65 Leg - 2.4m, 180˚</td>
<td>2</td>
<td>70.783</td>
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<tr>
<td>17</td>
<td>Ø65mm Base Foot</td>
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<td>70.741</td>
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<tr>
<td>18</td>
<td>Roof Brace Cable Set</td>
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<td>70.510.023</td>
</tr>
</tbody>
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#### Mid Bay Fabric List

| A    | 10m x 5m Mid Roof                            | 1   | 70.310.660  |
| C    | 5m x 2.4m Wall                               | 2   | 60.014.50   |
### 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

A
x2 Pegs (Ø25x800mm) per Base Foot

B
Ballast 350kg per Base Foot attach to Foot and Shoulder Connector

C
x2 Pegs (Ø25x800mm) per Base Foot + Guyed to x2 Pegs

Typical Stake Capacity 250kg in average soil conditions

Ballast Tie (use non slip pad under ballast ties)

Double up for increased wind speed

Wind Speed

0km/h

10km/h

20km/h

30km/h

40km/h

50km/h

Over 50km/h - All Walling to be fitted and closed

60km/h

Estimated

Nominal Stake Capacity 250kg.
2 Stakes per base. 1.5 x safety factor

Nominal Stake Capacity 250kg.
2 Stakes per base. + 2 Stakes per outguy 1.5 x safety factor

700kg Ballast

500

350kg Ballast 0.55m x 0.55m x 0.5m
Concrete Block.
Tied to base with ground plate

600

550

500

700kg Ballast

For Max. Capacity Pegs Must be Driven Vertically

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 180º 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
1. Assemble Portals on ground in position ready for rotating up.
2. Attach Layout Bar & triangles to first & second portals, secure with lynch pin.
5. Attach 25mm Brace Bars - Use Lynch Pins.

Keep Layout Bars in place until bay is complete.
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

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. 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
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.
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.
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.

![Diagram of Hip End Frame Layout Examples]