

Document: Installation Guide

Guide No: 022

Description: Omega Canopy, FSMP (with Ridge), 16mm Poly

Page 1 of 15

**Sections:**

Section No.	Section Description	Page No.
01	Essential Tools	2
02	Tools that will make Installation easier	2
03	Items to be supplied by Installer	2
04	Canopy main components	3
05	Overview of the Installation Process (Main Stages)	10
06	Glazing Bar Dimensions	14
07	Foundation Holes Positions	15

**01 Essential Tools:**

Item	Tool Description
01	Metal drill, dia. <b>3.8mm</b> (for pilot holes for No. 8 x 16 self-tapping screws) <b>SUPPLIED</b>
02	Metal drill, dia. <b>4.6mm</b> (for pilot holes for No.12 x 13 self-tapping screws) – may not be required for tie-bar bracket pilot holes. <b>SUPPLIED</b>
03	Driver Bit, <b>Phillips Head, PH2</b> (for driving No.8 x 16 self-tapping screws) <b>NOT Pozidriv. SUPPLIED</b>
04	Driver Bit, <b>Phillips Head, PH3</b> (for driving No.12 x 13 self-tapping screws) <b>NOT Pozidriv. SUPPLIED</b>
03	51mm Holesaw.
04	10mm Socket (for tightening M6 Nyloc Nuts).
05	Ratchet Driver for 10mm socket (item 04).
06	Spirit Level.
07	Power Drill/Driver, Hammer Drill (ideally cordless).
08	13 Amp Extension cable.
09	Marker Pen.
10	Soft Lead pencil.
11	Robust Step Ladder(s).
12	Digging Equipment for Supporting Post foundation holes.
13	Hacksaw.

**02 Tools that will make installation easier:**




Item	Tool Description
01	Sliding Compound Mitre Saw, 250mm dia.
02	Mitre Saw Bench.
03	Power Drill/Driver, SDS Drill – cordless.
04	Folding Saw Horses/Trestles.
05	Cement Finishing Trowel.
06	Power Jig Saw – cordless.
07	White Rubber Mallet.
08	Variety of metal drills.
09	Variety of Masonry drills.
10	Metal File.




**03 Items to be supplied by Installer**

Item	Item Description
01	Fixings for securing Supporting Post Feet.
02	Drill bits for fixings in 02
03	Sand and cement/ post mix and water for supporting post foundations (if this is the foundation regime for the posts).

#### 04 Canopy Main Components




Canopy Component	
RH Eaves End Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation)	
LH Eaves End Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation))	
Eaves Intermediate Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation)	





Canopy Component	
<p><b>RH Ridge End</b> Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation)</p>	
<p><b>LH Ridge End</b> Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation)</p>	
<p><b>Ridge</b> Intermediate Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation)</p>	

Canopy Component	
Knee Brace (Eaves/Ridge to post – holes drilled in one end only)	
Knee Brace (Tie-Bar to Post – holes drilled in both ends)	
Post Foot/Bracket joining Eaves/Gutter and Supporting Post	

Canopy Component	
Ridge Assembly(Ridge with Brush Gasket)	
Ridge Joint Assembly	
Eaves/Gutter	



Canopy Component	
Main Glazing Bar	
Sheet Closure (for Roof Panel)	
Roof Panel with protective film on both upper and lower surfaces	



Canopy Component	
End Cap for Edge Glazing Bar	
End Cap for Main Glazing Bar	
End Plate for Eaves/Gutter	
End Plates for Ridge	






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Page 9 of 15

<b>Canopy Component</b>	
Tie-Bar	
Rainwater Adaptor	





**05 Overview of Installation Process (Main Stages):**

Stage	Stage Description
01	<p>Set out and dig holes for foundations for supporting posts (to accept 100mm deep pad at base and 750mm cube of concrete. (or, mark out locations for supporting posts if posts to be fixed using masonry fixings to fix to base.</p> <p>Make hole(s) for egress of rainwater in Supporting Post(s) where this is required. (This is <b>not</b> required if Supporting Posts are <b>not</b> to be secured by burying them in a concrete foundation).</p> 
02	<p>Assemble Eaves/Gutter Assembly – Assembling Eaves/Gutter End Plates and Supporting Post Brackets to Eaves/Gutter.</p> 
03	<p>Assemble Ridge Assembly – Assembling Ridge End Plates and Supporting Post Brackets to Ridge Assembly.</p> 

<p>04</p>	<p>Assemble 'Goal-Post' frames (from Supporting Post/Tie-Bar Bracket assemblies and Tie-Bars).          Assemble (1) Eaves/Gutter Supporting Post Assembly with (1) Tie-Bar and (1) Ridge Supporting Post Assembly for each 'Goal-Post' Frame          This will require the (2) Supporting Post Brackets, Nuts and Bolts and Self-Tapping Screws.</p> <p>This can be undertaken at ground level adjacent Foundation Holes</p>	
<p>05</p>	<p>Install 'Goal-Post' frames onto foundation pads (with supporting post feet flat on the pad).          Check levels.</p>	
<p>06</p>	<p>Fix Eaves/Gutter to 'Goal-Post/Wall-Plate assembly' frame.          Secure the outside 'goal-post' frames to the Eaves/Gutter first.          Do not tighten nuts at this stage.          Check levels.          Tighten all nuts securing the wall-plate assembly and Eaves/Gutter to the 'goal-post' frames.</p>	

<p>07</p>	<p>Fix Ridge Assembly to 'Goal-Post' frames.          Secure the outside 'goal-post' frames first.          Do not tighten nuts at this stage.          Check levels.</p>	
<p>08</p>	<p>Fit Roof Panels, edge and main Glazing Bar assemblies (Edge and Main Glazing Bars with Main Glazing Bar End caps fitted).          Fit the Edge Glazing bar and secure in position.          Working from one end of the canopy fit one roof panel followed by one Main Glazing Bar assembly alternatively until the last edge glazing bar has been installed in position.          Do not secure the main glazing bars or last edge glazing bar at this stage.</p>	
<p>09</p>	<p>Position Main Glazing Bars –          Check that the spacing between the Main Glazing Bars is correct.          Mark these positions.</p>	

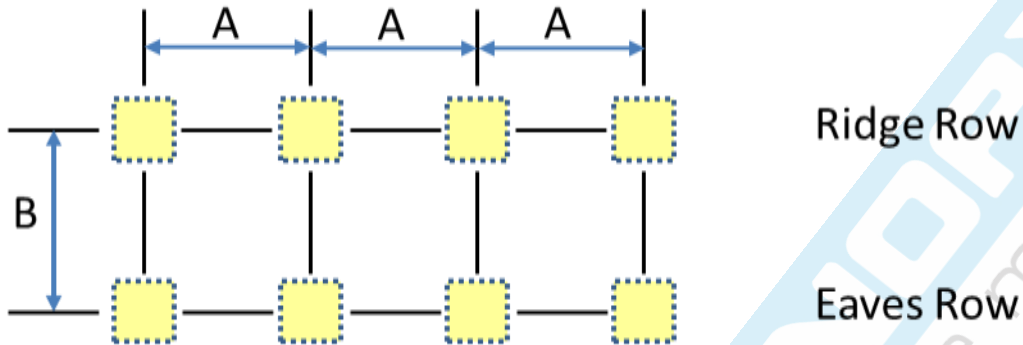


<p>10</p>	<p>Fitting Sheet Closures to Roof Panels.          This will require that the roof panels are lifted to enable Main Glazing Bar End Caps to be loosened so that the Sheet Closures can be fitted behind the Glazing Bar End Caps.</p>	
<p>11</p>	<p>Secure the Main Glazing Bars in position at the Wall-Plate and the Eaves/Gutter.          Check Spacing between Glazing Bars is correct against positions marked earlier.</p>	
<p>12</p>	<p>Installing Knee Braces:</p> <ol style="list-style-type: none"> <li>1. Ridge to Supporting Posts.</li> <li>2. Eaves to Supporting Posts.</li> <li>3. Tie-Bars to Supporting posts.</li> </ol>	
<p>13</p>	<p>Secure the Supporting Post feet in position by the means that you have chosen. The recommendation is that the supporting posts feet are buried in minimum 750mm cube of concrete.</p>	





**Setting Out Foundation Holes**



Canopy Dimensions	Dimension A (Supporting Post Centres)	Dimension B (Supporting Post centres)	Qty. of Foundation Holes
3.1m W x 2.0m P	3,025mm	1,944mm	4
4.2m W x 2.0m P	2,063mm	1,944mm	6
5.2m W x 2.0m P	2,563mm	1,944mm	6
6.3m W x 2.0m P	2,075mm	1,944mm	8
7.4m W x 2.0m P	2,442mm	1,944mm	8
3.1m W x 2.5m P	3,025mm	2,466mm	4
4.2m W x 2.5m P	2,063mm	2,466mm	6
5.2m W x 2.5m P	2,563mm	2,466mm	6
6.3m W x 2.5m P	2,075mm	2,466mm	8
7.4m W x 2.5m P	2,442mm	2,466mm	8
3.1m W x 3.0m P	3,025mm	2,980mm	4
4.2m W x 3.0m P	2,063mm	2,980mm	6
5.2m W x 3.0m P	2,563mm	2,980mm	6
6.3m W x 3.0m P	2,075mm	2,980mm	8
7.4m W x 3.0m P	2,442mm	2,980mm	8
3.5m W x 3.5m P	1,712mm	3,490mm	6
4.2m W x 3.5m P	2,063mm	3,490mm	6
4.9m W x 3.5m P	2,412mm	3,490mm	6
5.6m W x 3.5m P	2,763mm	3,490mm	6
6.3m W x 3.5m P	2,075mm	3,490mm	8
7.0m W x 3.5m P	2,308mm	3,490mm	8
7.8m W x 3.5m P	2,575mm	3,490mm	8
8.4m W x 3.5m P	2,775mm	3,490mm	8
4.2m W x 4.0m P	2,063mm	3,997mm	6
4.9m W x 4.0m P	2,412mm	3,997mm	6
5.6m W x 4.0m P	2,763mm	3,997mm	6
6.3m W x 4.0m P	2,075mm	3,997mm	8
7.0m W x 4.0m P	2,308mm	3,997mm	8
7.8m W x 4.0m P	2,575mm	3,997mm	8
8.4m W x 4.0m P	2,775mm	3,997mm	8