

Document: Installation Overview

Guide No: 018a

Description: Omega Canopy, Free-Standing, Gable-Roof, Type 2

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**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.
11	Length of hosepipe (to get concrete foundation pads level (with each other)

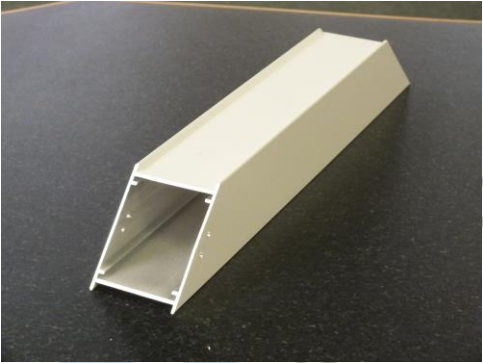
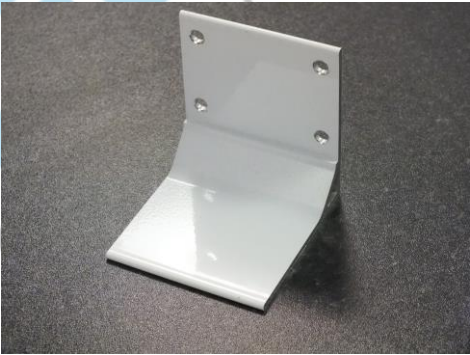
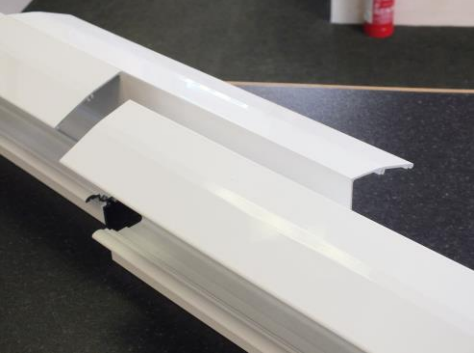
**03 Items to be supplied by Installer**

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).


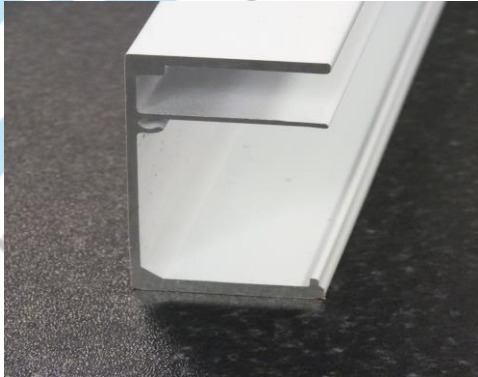
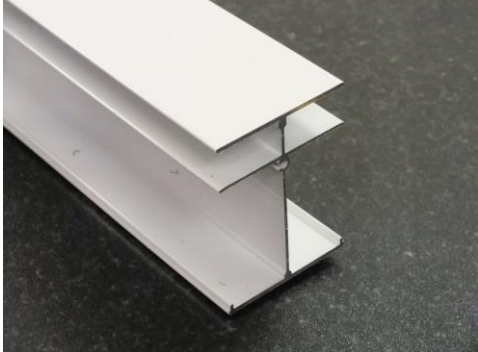
#### 04 Canopy Main Components

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

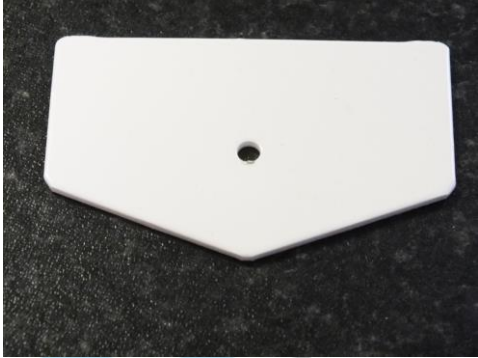

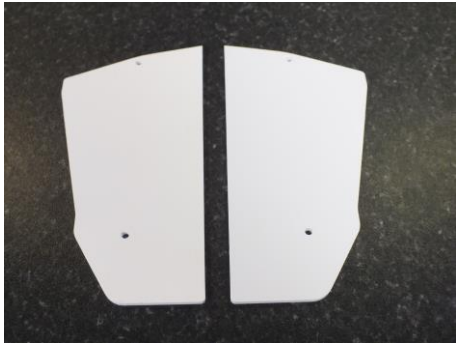
Canopy Component	
<p><b>RH Ridge End</b> Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation)</p>	<div data-bbox="860 495 1319 819" style="border: 1px solid black; padding: 10px;"> <p>Component Photograph not available</p> </div>
<p><b>LH Ridge End</b> Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation)</p>	<div data-bbox="860 857 1319 1182" style="border: 1px solid black; padding: 10px;"> <p>Component Photograph not available</p> </div>
<p><b>Ridge</b> Intermediate Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation)</p>	<div data-bbox="860 1234 1319 1559" style="border: 1px solid black; padding: 10px;"> <p>Component Photograph not available</p> </div>
<p><b>Knee Brace</b> (Eaves/Ridge to post – holes drilled in one end only)</p>	<div data-bbox="847 1626 1332 1989" style="border: 1px solid black; padding: 10px;">  </div>

Canopy Component	
Knee Brace (Tie-Bar to Post – holes drilled in both ends)	
Post Foot/Bracket joining Eaves/Gutter and Supporting Post	
Ridge (Wall-Plate Assembly)	



Canopy Component	
Eaves/ Gutter	
Edge Glazing Bar	
Main Glazing Bar	

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



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



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<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 (for 750 cube of concrete). Foundation hole positions are shown at the end of this guide. Make hole(s) for egress of rainwater in Supporting Post(s) where this is required. <u>See Setting Out Hole Positions at end of this document.</u></p>  <p><b>Getting the foundation pads level at this stage saves a lot of time levelling the canopy frame later.</b></p>
02	<p>Assemble (2) Eaves/Gutter assemblies (joining (2) Eaves/Gutters together using joining plate).</p>  <p>Assemble Supporting post brackets to Eaves/Gutter assembly and store adjacent working area.</p> 
03	<p>Assemble Ridge assembly (joining (2) Ridge Assemblies together with joining plates and nuts and bolts into pre-drilled holes) and store adjacent working area.</p> 

04	<p>Assemble (1) Eaves side Frame</p> <ol style="list-style-type: none"> <li>1. Assemble (1) Eaves/Gutter assembly to (3) Eaves Supporting Post assemblies to form (1) side frame assembly. This can best be achieved working at ground level.</li> <li>2. Set this frame adjacent one of the outside row of foundation holes.</li> </ol>
05	<p>Install Canopy Frame</p> <ol style="list-style-type: none"> <li>1. Install Eaves Side Frame in (1) of the outside rows of foundation holes. Ensure levels are OK and vertical alignment is correct in both directions. Side frame may require propping until next step accomplished.</li> <li>2. Assemble (1) of the central Supporting Post assemblies and Tie-Bar to the Eaves/Gutter frame. Secure this first central Supporting Post assembly to the foundation pad.</li> <li>3. Checking levels, fix all Supporting posts of Eaves frame to foundation pads.</li> <li>4. Work along the canopy frame to complete the row of Central supporting posts assemblies and Tie-Bars.</li> <li>5. Install the Ridge onto the Central Supporting Post assemblies.</li> <li>6. Finally, complete the other Eaves Supporting Post/Tie-Bar row and add the Eaves/Gutter Assembly.</li> </ol> <p>As you proceed through steps 2. – 6. check that posts are vertical in both directions and that Eaves/Gutter assemblies, Tie-Bars and Ridge assembly are level at each stage.</p> <p>Fix all remaining supporting post feet to foundation pads.</p> <p>Final fix- using self-tapping screws and nuts/bolts canopy frame.</p> <p><u><a href="#">See Setting Out Foundation Hole Positions data sheet at the end of this Instruction Guide.</a></u></p>
06	<p>Fit Edge Glazing Bars</p> <p>One Edge Glazing Bar is required at each end of both roof pitches. Ensure that you can remove one of the self-tapping screws at the eaves end of the edge glazing bar. This allows the final glazing panel to be fitted when following the process for fitting the glazing panels</p>

<p>07</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>08</p>	<p>Position Main Glazing Bars –          Check that the spacing between the Main Glazing Bars is correct.          Mark these positions.</p>	
<p>09</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>	





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<p>10</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>11</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>12</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>	