

Document: Installation Guide

Guide No: 030

Description: Omega Smart+ Lean-To Canopy, 16mm structured polycarbonate

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01 Essential Tools:

Item	Tool Description
01	Metal drill, dia. 3.8mm (for pilot holes for self-tapping screws) SUPPLIED
02	Driver Bit, Phillips Head, PH2 (for driving the self-tapping screws) NOT Pozidriv. SUPPLIED
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 to secure Wall Plate – usually masonry fixings. Head of Fixing MUST BE LESS THAN 10MM Depth.
02	Drill bits for fixings in 01
03	Fixings for securing Supporting Post Feet.
04	Drill bits for fixings in 02
05	Sand and cement/ post mix and water for supporting post foundations (if this is the foundation regime for the posts).

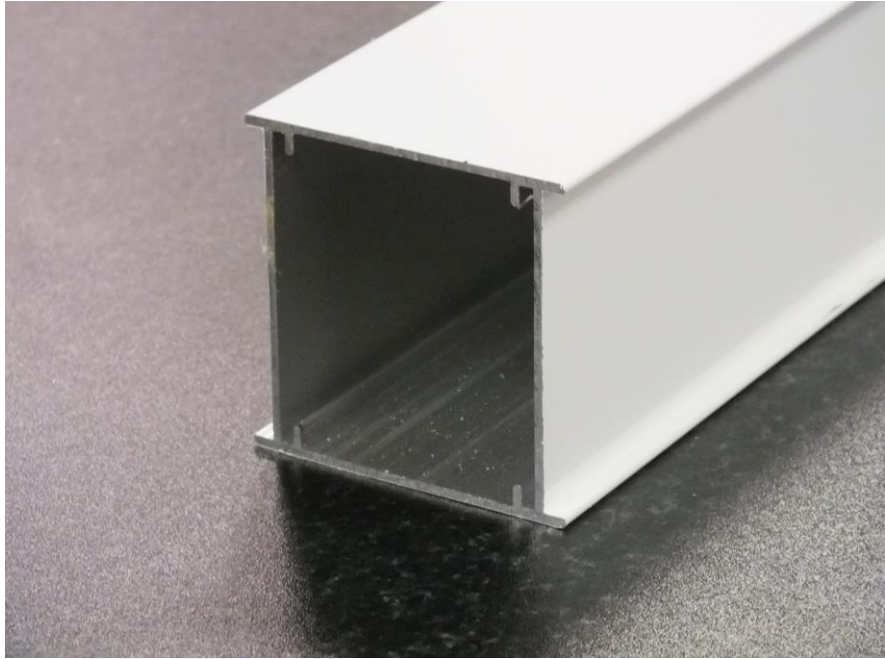
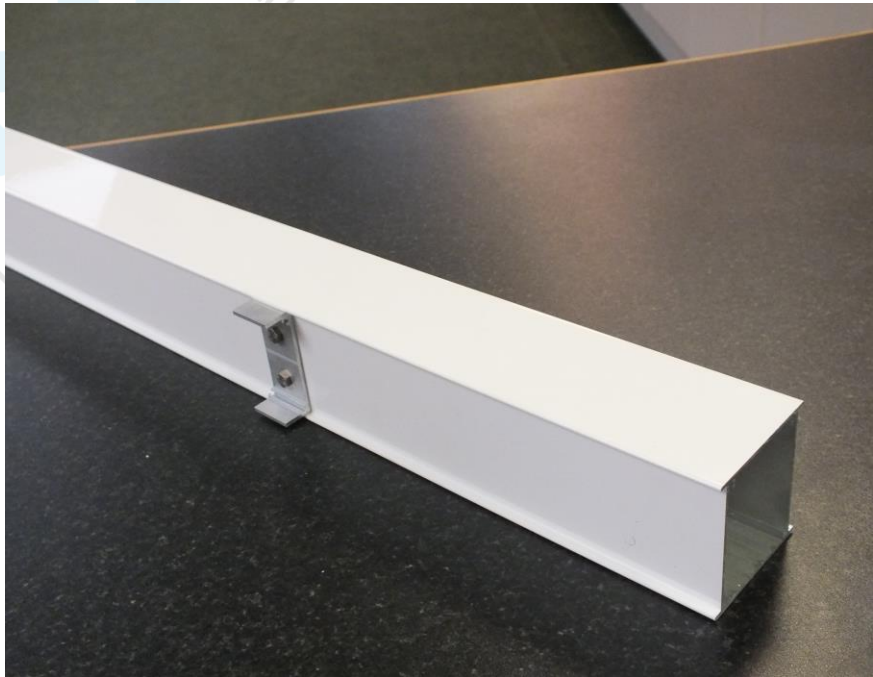
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04 Canopy Main Components

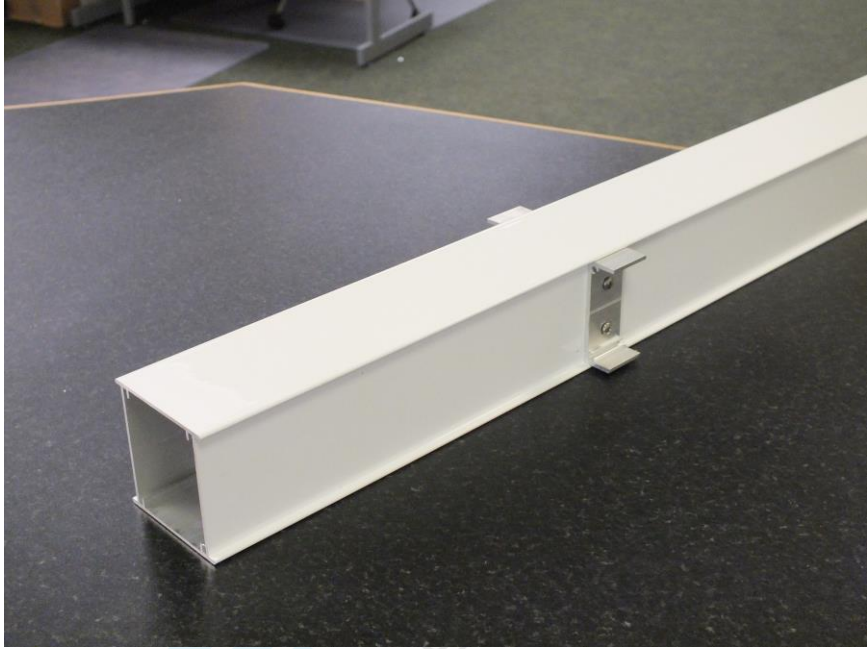
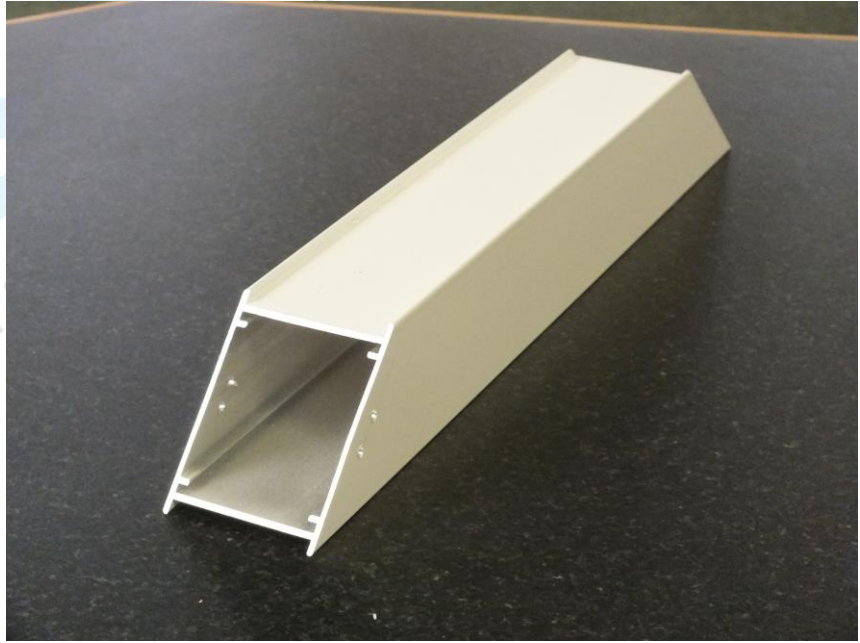
Canopy Component	
Supporting Post	
End Supporting Post/Knee Brace Bracket Assembly (only supplied with canopies with Knee Braces)	

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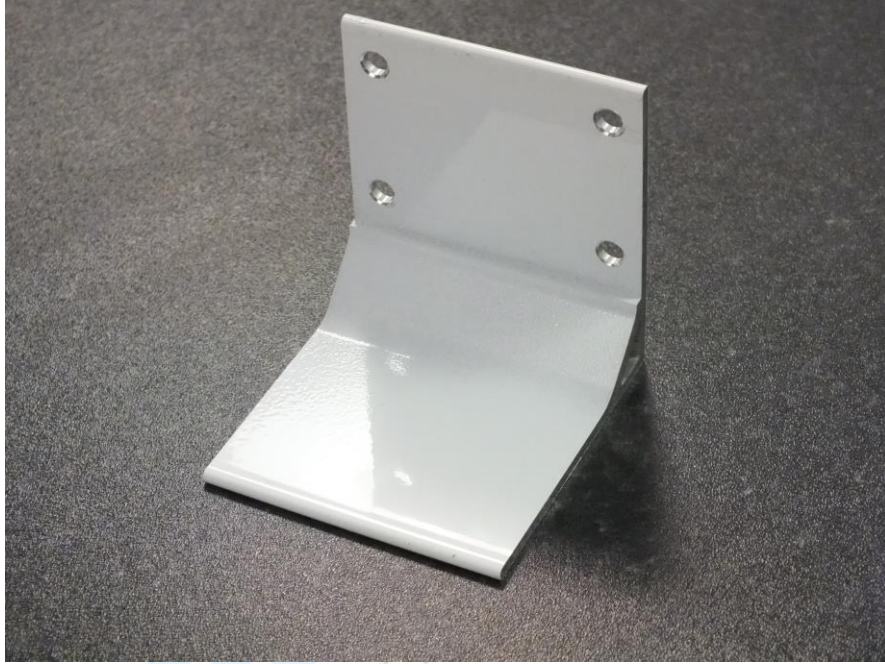
Canopy Component	
<p>Intermediate Supporting Post/Knee Brace Bracket Assembly (only supplied with canopies with Knee Braces)</p>	 <p>A photograph showing a white, U-shaped intermediate supporting post/knee brace bracket assembly. The bracket is made of a white material, likely polycarbonate, and has a metal bracket attached to its side. It is shown lying on a dark, textured surface.</p>
<p>Knee Brace (only supplied with canopies with Knee Braces)</p>	 <p>A photograph showing a white, U-shaped knee brace. The brace is made of a white material, likely polycarbonate, and has a metal bracket attached to its side. It is shown lying on a dark, textured surface.</p>

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Canopy Component	
Post Foot/Bracket joining Eaves/Gutter and Supporting Post	
Wall-Plate	

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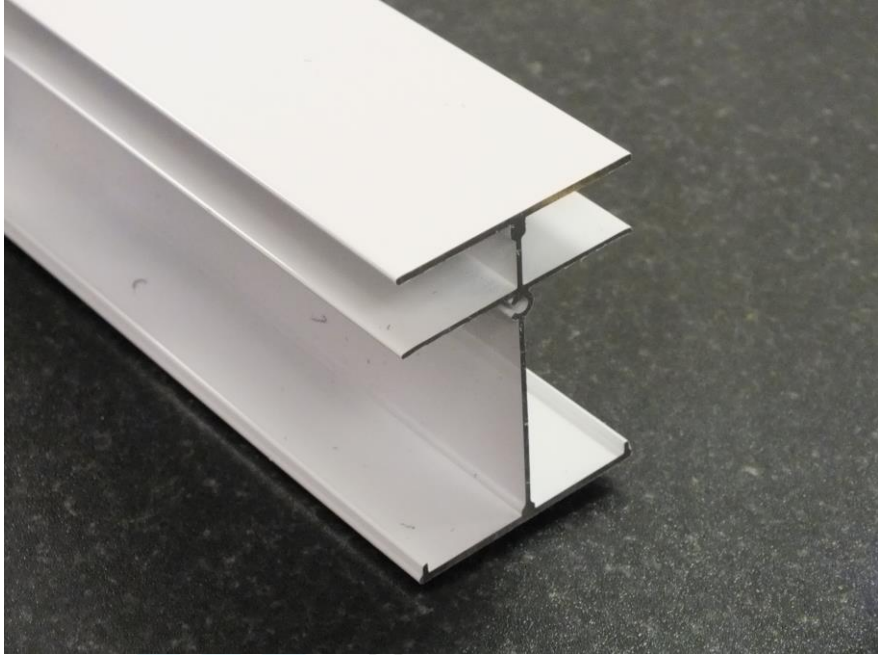

Canopy Component	
Eaves/ Gutter	
Edge Glazing Bar	

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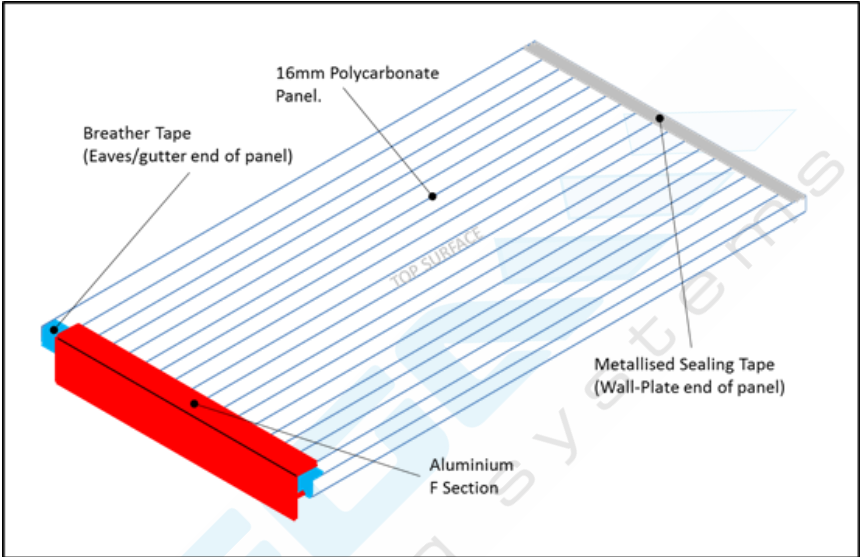

Canopy Component	
Main Glazing Bar	
F-Section/Sheet Closure.	

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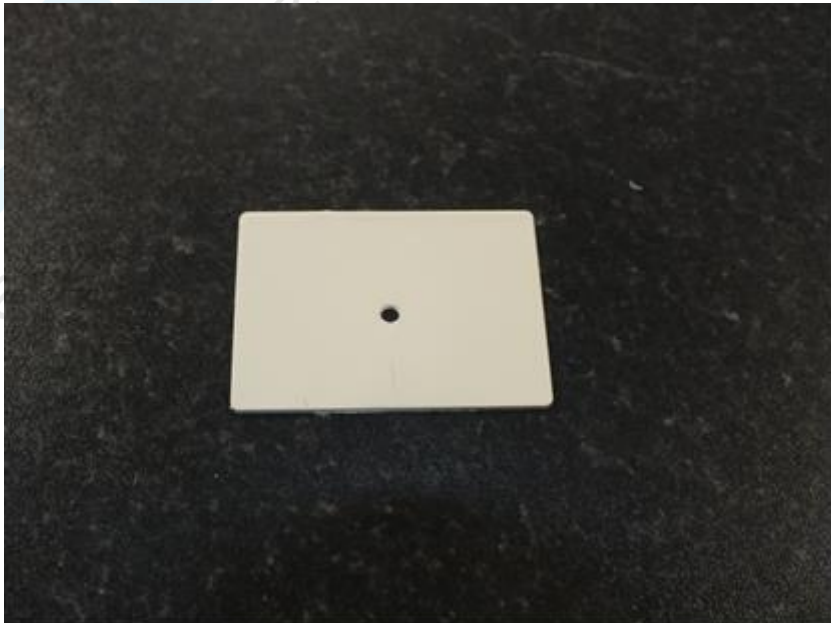
Canopy Component	
<p>Roof Panel with protective film on both upper and lower surfaces (shown with F-Section/Sheet Closure fitted).</p>	 <p>The diagram illustrates the installation of a 16mm Polycarbonate Panel. It shows the panel with a protective film on both surfaces. The top surface is labeled 'TOP SURFACE'. The panel is shown being fitted onto an 'Aluminium F Section'. A 'Breather Tape (Eaves/gutter end of panel)' is applied to the eaves end, and a 'Metallised Sealing Tape (Wall-Plate end of panel)' is applied to the wall-plate end.</p>
<p>Rainwater Adaptor</p>	 <p>The photograph shows a red, circular rainwater adaptor fitting into a dark, textured surface, likely a roof or wall. The adaptor has a flange that sits on the surface and a central opening for water drainage.</p>

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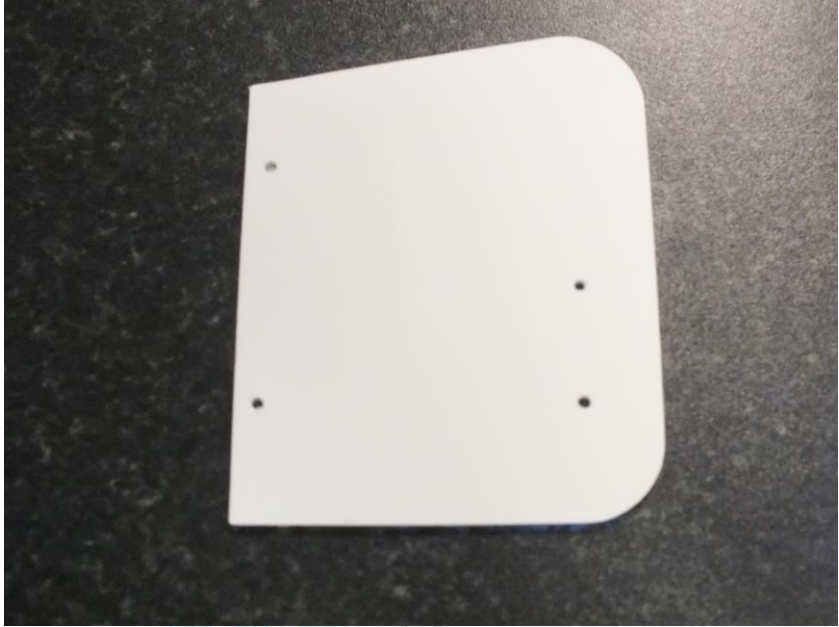

Canopy Component	
End Cap for Edge Glazing Bar	
End Cap for Main Glazing Bar	

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Canopy Component	
End Plate for Eaves/Gutter	
End Plate for Wall-Plate	

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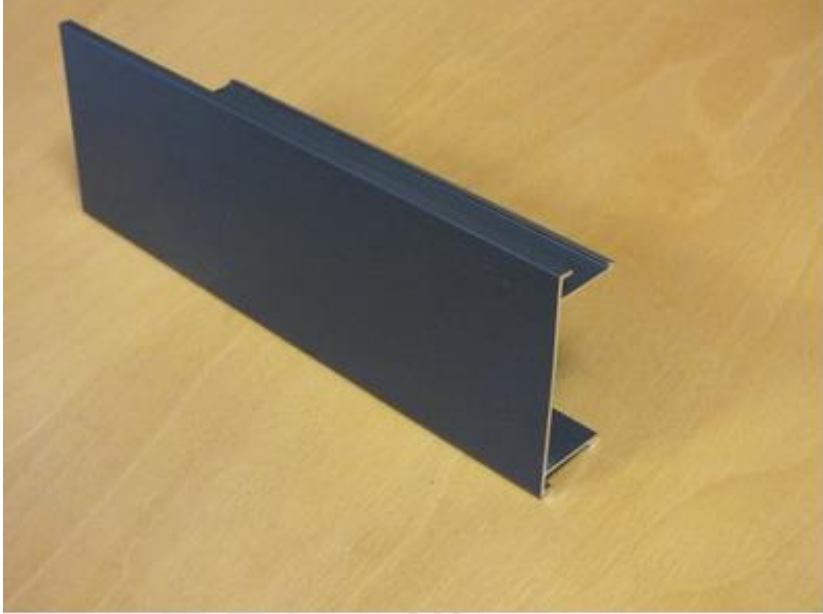
Canopy Component	
Vertical Wall-Plate Finisher	
Under Wall-Plate Finisher	

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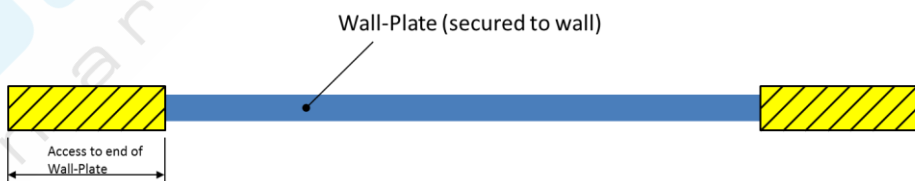
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Canopy Component	
Under Eaves/Gutter Finisher	

05 Overview of Installation Process (Main Stages):

Stage	Stage Description
01	Set out and dig holes for foundations for supporting posts (or, mark out locations for supporting posts if posts to be fixed using masonry fixings to fix to base. Make hole(s) for egress of rainwater in Supporting Post(s) where this is required. (This is not required if Supporting Posts are not to be secured by burying them in a concrete foundation).
02	Prepare and fix wall-plate (Ensuring alignment with supporting post positions). Install Vertical Wall-Plate Finishers.
03	Prepare Eaves/gutter – insert set screws into channels on Eaves/Gutter, fit brackets (one per post at this stage) in required position. Make hole(s) for rainwater drainage in Eaves/Gutter immediately above and central to Supporting Post(s) where rainwater drainage is required
04	Install Eaves gutter onto supporting posts. Make sure that your levels are as required at this stage.
05	Install and secure both Edge Glazing Bar assemblies (Edge Glazing Bars with Edge Glazing Bar End Caps fitted) at either end of the canopy. This will provide the canopy framework. Final Check of levels. Secure all brackets at the supporting post and Eaves/Gutter Joints.
06	Fit Roof Panel Assemblies and Main Glazing Bars Assemblies (Panels fitted with adaptor bars, Main Glazing Bars with Main Glazing Bar End caps fitted). Working from one end of the canopy fit one roof panel assembly followed by one Main Glazing Bar assembly alternatively until the last roof panel is to be fitted. Undo the self-tapping screw securing the Edge Glazing Bar at the Eaves/Gutter to enable the last roof panel to be fitted. Re-secure Edge Glazing Bar.
07	Fixing Main Glazing Bars.
08	Applying Silicone Bead to junction of glazing panel and F Section at the Eaves/Gutter end of the panel assembly.
09	Installing Under Wall-Plate Finishers to Wall-Plate.
10	Installing Knee Braces (if fitted) between Eaves/Gutter and Supporting posts.
11	Installing Under Eaves/Gutter Finishers (to Eaves/Gutter).
12	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 300mm cube of concrete.

06 Installation Process; Main Stages in Detail:

Process Step	Description
	<p><u>Stage 01: Set Out positions and prepare foundations for Supporting Posts</u></p> <p>IMPORTANT : Smart+ Canopies require access to at least ONE END of the wall-plate at the wall. This allows access to insert the Wall-Plate Finishers.</p> <p>The minimum horizontal access required: For Projections upto 3.0m: Access required is 1,200mm. For Projections 3.0m-4.0m: Access required is 900mm. For Projections 4.0m-4.5m: Access required is 700mm.</p> <p>Clearly, the location of the Wall-Plate affects the position of the Supporting Posts and foundation holes for the Posts.</p> <div data-bbox="386 1180 1339 1890"> <p>Free-Access required to allow installation of Wall-Plate finishers NEED: 1,200mm for 1.5m – 3.0m Projections. 900mm for 3.0m – 4.0m Projections. 700mm for 4.0m – 4.5m projections.</p> <p>Access only required from ONE side of the Wall-Plate.</p>  <p>Wall-Plate (secured to wall)</p> <p>Access to end of Wall-Plate</p> </div>

01	<p>Mark position of each Supporting Post. When undertaking this task be sure that you are aware of the position of the wall.</p> <p>In most cases, but, not all, the Supporting Posts will be evenly spaced along the length of the Eaves/Gutter with the (2) outside Supporting Posts aligned with either end of the Eaves/Gutter.</p> <p>Post hole positions shown for standard canopies on Page 42.</p>
02	<p>Dig holes for each Supporting Post.</p> <p>These holes should be a minimum of 300mm square x 400mm deep.</p> 
03	<p>Pour concrete mix into each hole to a depth of 100mm to provide footing for Supporting Post Feet.</p> <p>Concrete mix should ideally be: 1 part cement : 3.5 parts sand : 2.5 parts coarse aggregate.</p> <p>If using combined aggregate the mix should be: 1 part cement : 5 parts combined aggregate.</p> <p>Do not overwater as the mix needs to start 'skinning over' as soon as possible.</p> <p><i>This can be accelerated by pouring a thin layer of cement onto the concrete footing once it has been levelled.</i></p> <p>Level the footing using a Cement Finishing Trowel.</p> 


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04	<p>Fit the Supporting Posts with the Supporting Post Feet. Each post has (2) Supporting Post Feet attached to one end. Set out the Supporting Post on trestles so that you are working at waist height. Insert a Post Foot into the inside of the Supporting Post. The Post Foot will slide into the channels on the inside of the Post. There is a step on the Post Foot. When the Foot is pushed home the Post Foot step will abut the end of the Post.</p> 
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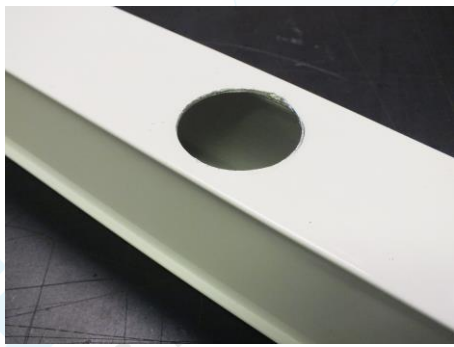
05	<p>Secure the Post Foot to the Supporting Post.</p> <p>With the Post Foot located in the Supporting Post drill (2) pilot holes using the 3.8mm drill, one above the other, (roughly on the centre-line of the Supporting Post) through the Supporting Post and through the Post Foot located inside the Supporting Post.</p> <p>When drilling the Pilot Hole, do not apply undue downward pressure as this will potentially break the drill.</p> <p><i>As you will be drilling several Pilot Holes you will get used to the appropriate pressure to apply.</i></p> <p>Secure the Post Foot in position using the Phillips Head Self-Tapping Screws using the PH2 Driver Bit.</p> <p>When driving the Self-Tapping Screw you will need to apply sufficient pressure so that the drill bit does not slip out of the screw head.</p> <p><i>You will need a medium-to-high torque setting on your Drill/Driver in combination with applying pressure on the self-tapping screw.</i></p> <p><i>Again, this will be a technique that you will get used to and learn the correct settings that work for your installation.</i></p> <div data-bbox="392 1151 1331 1496">  </div>
06	Repeat Process Steps 04 – 05 for the other foot for the same Supporting Post.
07	Repeat Process Steps 04 -06 for each Supporting Post.


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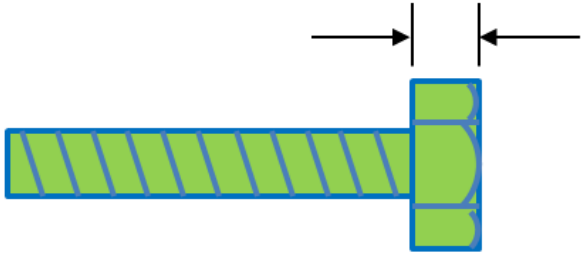
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08	<p>Cut rainwater drainage hole in Supporting Post(s). The hole is cut using a hole-cutter and Power Drill/Driver. Make sure that the hole is at the correct depth (the Supporting Post is being buried in concrete). Make sure that the hole is on the correct face of the Supporting Post(s) so that the rainwater flows out of the hole in the correct direction.</p> <div data-bbox="395 669 852 1014"></div> <div data-bbox="874 669 1329 1014"></div>
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	Stage 02: Prepare and Fix Wall-plate
09	<p>Drill holes in the Wall-plate so that the fixings that are to be used to secure the wall-plate can be accommodated.</p> <p>This is most easily achieved with the wall-plate located on trestles to allow waist height working.</p> <p>We cannot be specific with regard to the fixings that you should use.</p> <p>The fixings that you use should be appropriate for the vertical surface/material against which the wall-plate is to be fixed.</p> <p>We recommend that the fixings should be spaced no more than 450mm apart.</p> <p>The vertical location of the fixings should be as close as possible to the top slot profile that runs the length of the wall-plate (if the fixing is to be fitted above this slot). This is probably the best position for the hole for the fixings as it allows the best access to the fixing when securing the fixings.</p> <p>If the fixing is to be installed below this slot the only consideration is the ease of access when installing the fixing.</p> 

<p><u>10</u> <u>(10a-10d)</u></p>	<p><u><i>This process step is only required if the wall-plate is supplied in (2) sections.</i></u> <u><i>This will be the case for canopies that are 6.3m (and over) in width.</i></u></p>
<p>10a</p>	<p>The aim of this process step is to align (the) (2) wall-plates with each other. This is not always necessary as it is often possible to achieve good alignment without using the joining plate.</p> <p>Insert Joining Plate into joining plate slots on one of the wall-plates. This is most easily achieved with the wall-plate resting on trestles at waist height. The Joining Plate is 350mm in length and is designed to be a tight fit. To make fitting the joining plate easier the edges of the Joining Plate can be filed using a Metal File. The joining plate can also be cut down in length using a Hack Saw, again to make fitting easier.</p> <p>Use a White Rubber Mallet to tap in the Joining Plate into the joining plate slots to half its length.</p> 

10b	Install the Wall-Plate with the inserted Joining Plate as in Process Steps 10 – 17.	
10c	<p>Install the other Wall-Plate.</p> <p>This will mean that this Wall-Plate will need to be presented to the Joining Plate and pushed onto the Joining Plate.</p> <p>This is achieved using (2) persons.</p> <p>One at the Joining Plate to ensure alignment and that the Joining Plate engages correctly with the joining plate slots in the 'new' Wall-Plate.</p> <p>The other person is located at the other end of the Wall-Plate and can tap the Wall-Plate onto the Joining Plate using a White Rubber Mallet to tap the wall-Plate at this end.</p>	
10d	This Wall-Plate can now be fixed in position by following Process Steps 10 – 17.	
11	<p>Present the wall-plate to its fixing location.</p> <p>Mark the hole positions for the fixings using the holes drilled in the wall-plate.</p> <p>Ensure the wall-plate is level when marking the hole positions by using a spirit level.</p>	 <p>This is most easily achieved as a 2-person activity.</p>



12	<p>Mark one of the (2) outermost hole positions first. Drill the fixing hole into the fixing surface using a Cordless Power drill/driver.</p>
13	<p>Fix the wall-plate using this first hole by partially fitting the first fixing.</p> <div data-bbox="419 600 1015 1041">  </div> <p>Raise the wall-plate into a horizontal position (checking the spirit level) and mark the other outermost fixing position.</p> <p>IMPORTANT: The head of the fixing securing the wall-plate to the wall/substrate must be LESS THAN 10mm. This is so that the Vertical Wall-Plate Finisher can be fitted.</p> <div data-bbox="405 1270 1337 1823"> <div data-bbox="440 1303 1302 1518"> <p>Head Depth of (Masonry) Fixing securing Wall-Plate to Wall/Substrate must be LESS THAN 10mm</p> </div>  </div>

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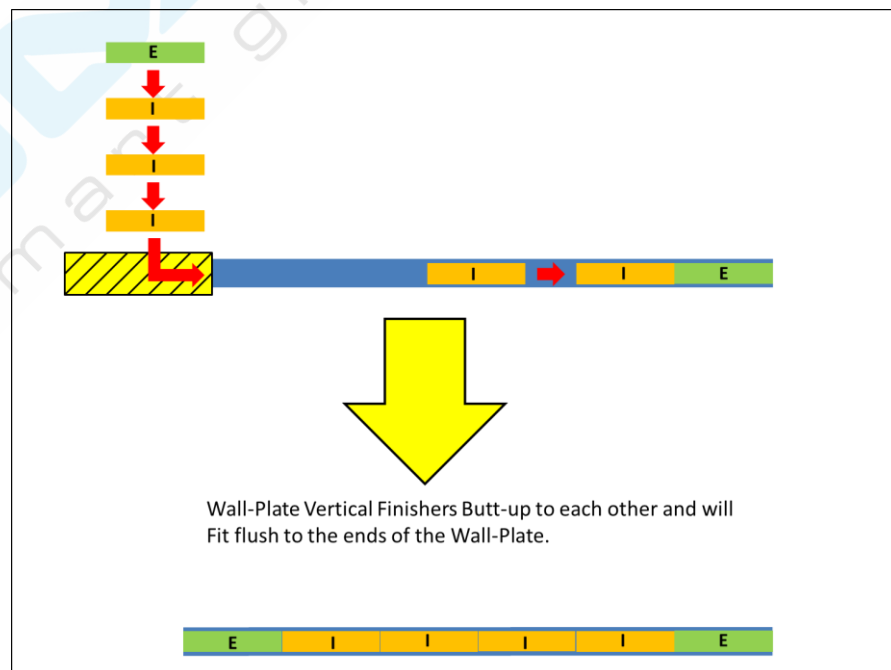
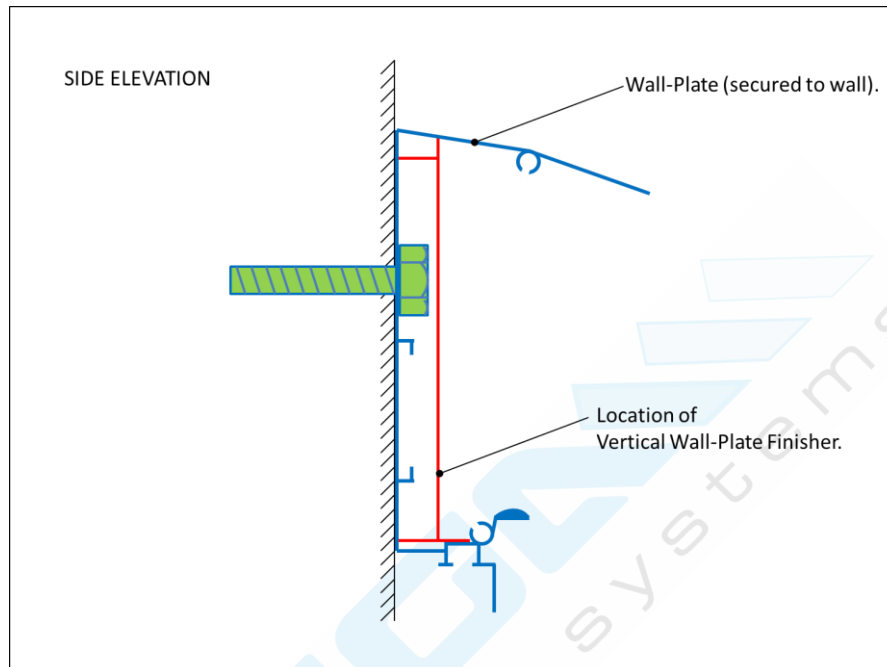
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14	Fix the wall-plate in position by partially securing the fixing in this hole position.	
15	Mark all the other hole positions.	
16	Drill all the remaining fixing hole positions into the fixing surface. This will require that the wall-plate is completely removed to drill these holes.	
17	Apply (2) thick (8mm) parallel beads along the length of the wall-plate. This is most easily achieved with the wall-plate resting on trestles at waist height.	
18		Re-present the wall-plate and fixing all required wall-plate fixings. This is a final fixing.

19
(cont'd.)



	<u>Stage 03: Prepare Eaves/Gutter</u>
20	<p>Insert the required number of Set Screws into both Set Screw slots located on the underside of the Eaves/Gutter. This is most easily achieved with the Eaves/Gutter upside down on trestles. These are used to secure the Eaves/gutter to Supporting Post joint. Each bracket uses (4) Set Screws. The End Supporting Posts (at each end of the Eaves/Gutter employ (1) bracket. The intermediate Supporting Post(s) employ (2) brackets. Ensure that each Set Screw channel has the same quantity of Set Screws inserted and that this quantity is even.</p> <div style="display: flex; justify-content: space-around;">   </div>

21	<p>Install Supporting Post/Eaves Gutter Brackets into Eaves Gutter. This should be undertaken whilst the Eaves/Gutter is still located on the Trestles. The aim here is to secure one bracket in position for each Supporting Post.</p> <p>Note that: End Supporting Posts require only one Bracket and this is located on the inside face of the End Supporting Post(s). Intermediate Supporting Posts require (2) Brackets; (1) either side of the post along the Eaves/Gutter.</p> <div data-bbox="416 763 855 1093" data-label="Image">  </div> <div data-bbox="887 763 1318 1093" data-label="Image">  </div> <p>In order that (1) Bracket for each Supporting Post is secured in position you will need to measure where the Posts will be located along the Eaves/Gutter and mark these positions before securing these single Brackets in position on the Eaves/Gutter. The Brackets that are required for the intermediate Supporting Posts can be loosely secured so that they move freely along the Eaves/Gutter. (This allows the Supporting Posts to be easily fitted to the Eaves/Gutter and Brackets when this process step is undertaken).</p> <p>The Brackets are secured via the M6 Set Screws located in the Set Screw channels. Locate the Bracket in the Eaves/Gutter so that each of the (4) Set Screws is located through the (4) drill holes in the Bracket.</p> <p>(This can be a little fiddly!)</p> <div data-bbox="828 1458 1340 1839" data-label="Image">  </div>
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<p>21 (cont'd.)</p>	<p>Screw on the M6 Nyloc Nuts onto the M6 Set Screws so that the bracket is retained in the Eaves/Gutter, but is still loose. Those Brackets that are to be fixed in position must be moved into their final position along the Eaves/Gutter.</p>  <p>The Brackets to be finally fixed in position are secured by tightening up the M6 Nyloc Nuts using the M10 Socket and Ratchet Driver.</p>
<p>22</p>	<p><u>This Process Step <i>only</i> applies if there are (2) Eaves/Gutter assembly sections to be installed.</u> <u>This will be the case for canopies that are 6.3m (and over) in width.</u></p> <p>The aim of this process step is to align the (2) Eaves/Gutters with each other. The aim of this process step is to align (the) (2) wall-plates with each other. This is not always necessary as it is often possible to achieve good alignment without using the joining plate.</p> <p>Insert Joining Plate into joining plate slots on one of the wall-plates. This is most easily achieved with the wall-plate resting on restles at waist height. The Joining Plate is 350mm in length and is designed to be a tight fit. To make fitting the joining plate easier the edges of the Joining Plate can be filed using a Metal File. The joining plate can also be cut down in length using a Hack Saw, again to make fitting easier.</p> <p>Use a White Rubber Mallet to tap in the Joining Plate into the joining plate slots to half its length.</p> <p>Inserting the Joining Plate can be quite difficult if there has been a build-up of the Powder-coat in the Joining Plate slots. To start the Joining Plate it may be necessary the clear some of the Powder-Coat using a thin blade screwdriver.</p> 

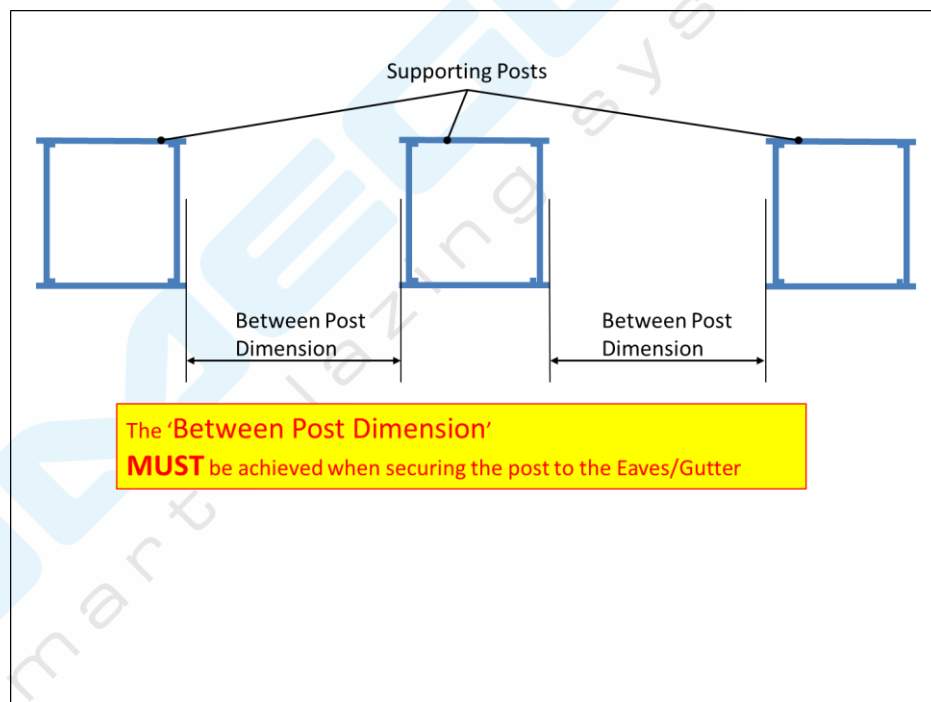
23	<p>Fit End-Plate to each end of Eaves/Gutter.</p> <p>Again, undertake this activity whilst the Eaves/Gutter is located on the Trestles.</p> <p>Apply silicone sealant to the end profile of the Eaves/Gutter.</p> <p>If the end of the Eaves/Gutter is uneven because of the powder-coating it is sensible to file the end profile square and flat with a Metal File to provide a good surface for the joint.</p>  <p>Secure End-Plate to the end of the Eaves/Gutter by screwing in the (4) Self-Tapping Screws into the (4) screw ports in the Eaves/Gutter.</p>  <p>The (4) holes in the Eaves/Gutter End Plate align with the (4) screw ports in the Eaves/Gutter.</p> <p>When all (4) screws have been secured apply a bead of silicone sealant to the End Plate – Eaves/Gutter join on the inside of the Eaves/Gutter.</p> <p>You may want to ‘smooth down’ this bead of silicone sealant to ensure that the silicone seals all along the End-Plate/Eaves/gutter join.</p>
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Stage 04: Secure Eaves/Gutter to Supporting Posts

IMPORTANT:

The supporting Posts must be fitted accurately.
The dimensions supplied in this Installation Guide (**SECTION 09, Page 59**) or in the **Installation Guide Special Addendum** for the dimensions between posts must be adhered to.

This enables the neat installation of the Under Eaves/Gutter Finishers.



The 'Between Post Dimension'
MUST be achieved when securing the post to the Eaves/Gutter

24

This step applies for canopies fitted with Knee Braces.

(if no Knee Braces (to be) fitted then this step can be bypassed)

If the canopy has knee braces (fitted at the Eaves/supporting post joints) the correct type of supporting post assembly must be located in the correct location.

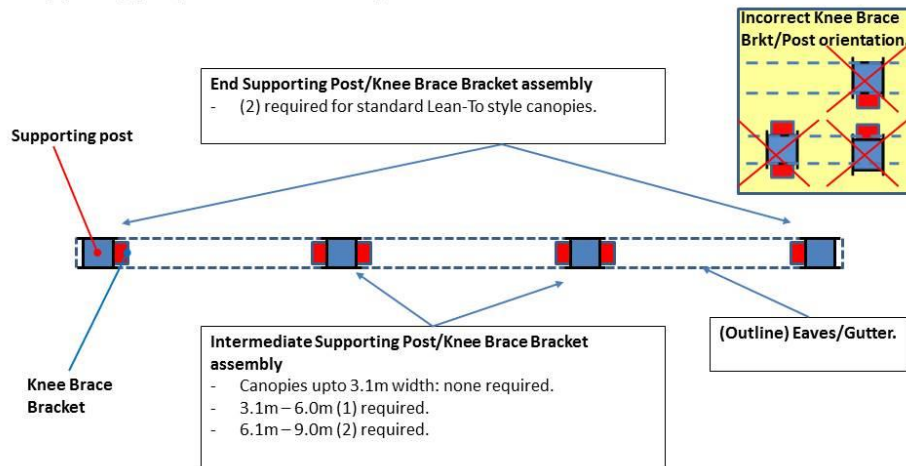
There are (2) types of supporting post assemblies:


1. End Supporting post/Knee Brace Bracket assembly.
2. Intermediate Supporting Post/Knee Brace Bracket assembly.

These must be located and oriented correctly. The schematic layout shows how to locate and orient these (2) types of supporting post.assemblies.

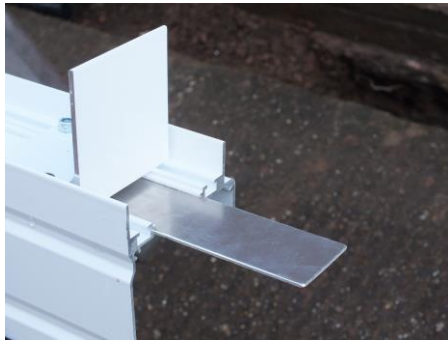
Plan View Schematic showing:

Type of Supporting post/Knee Brace assembly,
Supporting post/Knee Brace assembly Location, and
Supporting post/Knee Brace assembly orientation



<p>25</p>	<p><u><i>(If there are (2) Eaves/Gutter sections to install, this Process Step also applies for installing the first of (2) Eaves/Gutter sections)</i></u></p> <p>Set the Eaves/Gutter assembly in position so that the Supporting Posts are located correctly in the Eaves/Gutter. At this stage make sure that your levels are correct, both for the Supporting Posts and the Eaves/Gutter. You may, at this point provide the Eaves/Gutter with a slight fall toward the position of the outlet in the Eaves/Gutter.</p> 
<p>26</p>	<p><u><i>This Process Step only applies if there are (2) Eaves/Gutter assembly sections to be installed.</i></u> <u><i>This will be the case for canopies that are 6.3m (and over) in width.</i></u></p> <p>If there are (2) Eaves/Gutter sections to install the first Eaves/Gutter section has been installed in Process Step 23. This Process Step installs the second Eaves/Gutter Section. This will require (2) persons. Install the Eaves/Gutter over the Supporting Posts. Ensure that your required levels are correct. If you are applying a fall, then ensure that the fall is as required to suit your installation. Align the Joining Plate that has been inserted into the first</p>

Eaves/Gutter with the Joining Plate slots on the second Eaves/Gutter. Tap the (other) end of the Eaves/Gutter with a **White Rubber Mallet** whilst holding the first Eaves/Gutter. Apply silicone sealant to the end profile of first Eaves/Gutter. Tap the end of the second Eaves/Gutter until the (2) Eaves/Gutters 'abut' each other.

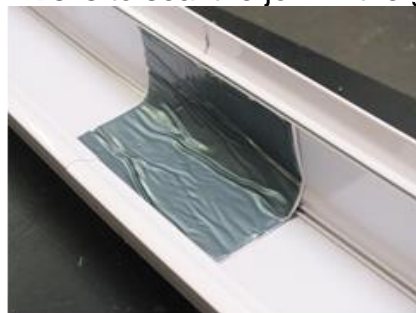


Smooth the sealant over the join of the (2) Eaves/Gutters on both the inside and outside of the join.

This Process Step only applies if there are (2) Eaves/Gutter assembly sections to be installed.

This will be the case for canopies that are 6.3m (and over) in width.

Apply Flashband to internal join of the (2) Eaves/Gutters. This is to seal the join in the gutter.



<p>27</p>	<p>Secure the outside Supporting Posts. The outside Supporting Posts are fixed to the Eaves/Gutter using (4) Self-Tapping Screws – (2) on either side of the Eaves/Gutter.</p>  <p>IMPORTANT: The Outside Edge of the Supporting Post must align with the End Face of the Eaves/Gutter (BOTH Ends of the Eaves/Gutter).</p>
<p>28</p>	<p>Secure all Brackets in position. Tighten up the M6 Nyloc Nuts using M10 Socket and Ratchet Driver.</p>  <p>IMPORTANT: The 'Between Supporting Posts' Dimension MUST be correct before Brackets are secured in position. (See End of Installation Guide for Between Post Dimensions or Installation Guide Special Addendum).</p>

29

Secure Brackets to Supporting Posts.

The Brackets are fixed to the Supporting Posts using the Self-Tapping Screws.

Use (4) Self-Tapping Screws for each Bracket.



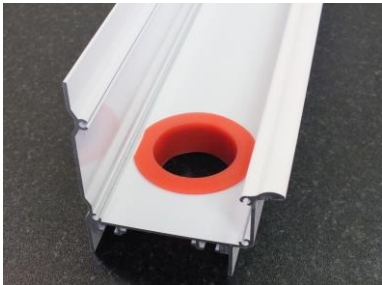
It is useful to make a small cardboard template with the hole positions marked on it that can be used to mark the positions of the holes on the Brackets.






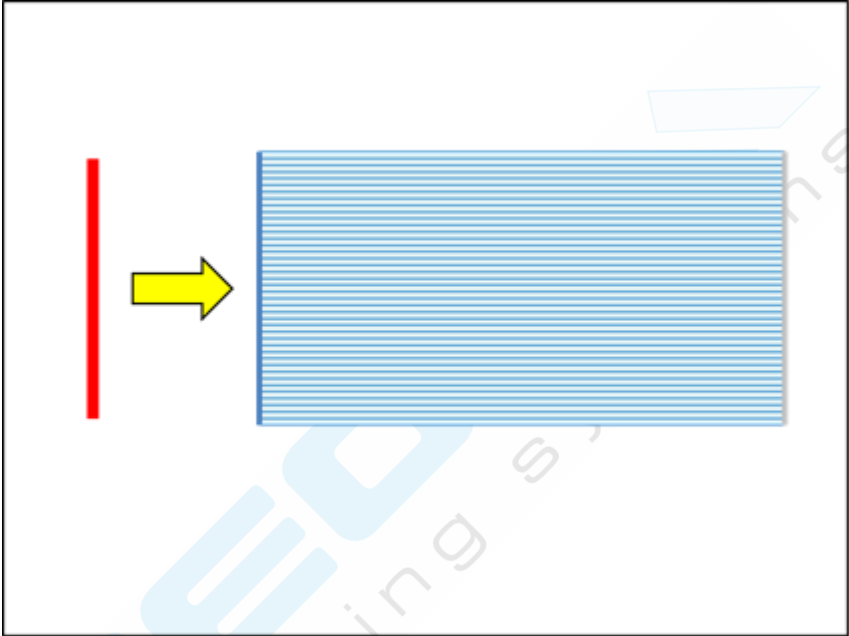
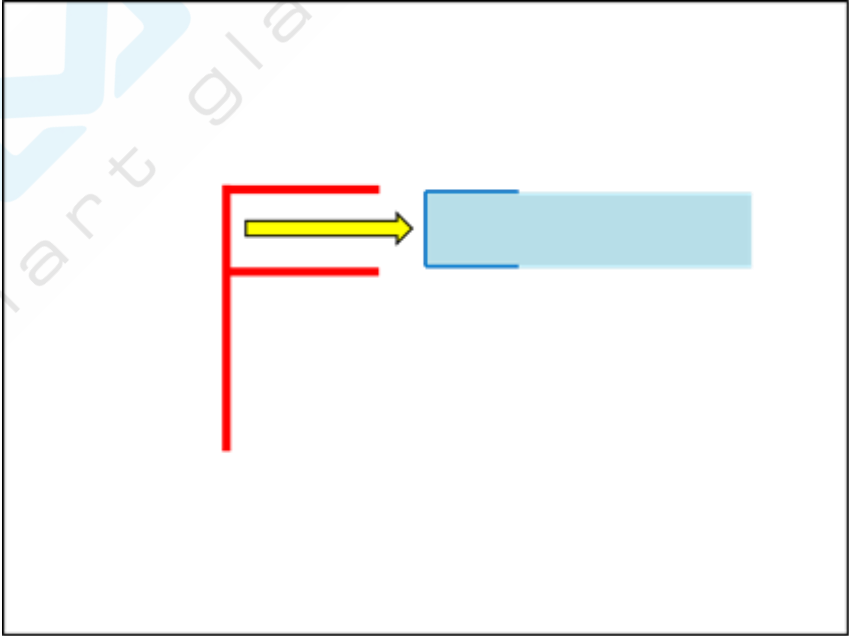
IMPORTANT:

The 'Between Supporting Posts' Dimension **MUST** be correct before Brackets are secured in position.

(See End of Installation Guide for Between Post Dimensions or Installation Guide Special Addendum).

30	<p>Cut Out Rainwater Drainage Hole in Eaves/Gutter.</p> <p>Use 1 51mm diameter HoleSaw and the Drill/Driver to cut the hole required in the Eaves/Gutter.</p> <p>You will need to be above the Eaves/Gutter to do this.</p> <p>Therefore you will need to use a secure and stable Stepladder.</p> <p>Make sure that the centre of the hole to be cut is immediately central to the Supporting Post (located below the Eaves/Gutter).</p>  <p>Please note that in this picture the Eaves/Gutter end-Plate has been removed to show the HoleSaw position.</p>
31	<p>Prepare and fit Rainwater adaptor.</p> <p>If necessary trim the flange of the Rainwater Adaptor so that it will sit flat on the bottom of the Eaves/Gutter.</p> <p>Apply bead of silicone to the lower surface of the flange of the Rainwater Adaptor.</p> <p>Insert Rainwater Adaptor into the hole cut with the 51mm dia. Hole saw.</p> <p>Ensure that the flange sits flat on the bottom of the Eaves/Gutter all around the Rainwater Adaptor.</p> <p>On larger canopies more than one rainwater outlet will be required. The quantity of Rainwater Adaptors supplied will indicate the number of rainwater outlets recommended.</p>  

	Stage 05: Fit Edge Glazing Bars
32	<p>Fit the Edge Glazing Bars; one to each end of the canopy.</p> <p>There is flexibility along the length of the Edge Glazing Bar in the exact position the Edge Glazing Bars are secured to the Wall-Plate at one end of the Edge Glazing Bar and the Eaves/Gutter at the other end.</p> <p>The Standard projections of the canopy are achieved with the position of the Self-Tapping Screw located: 18mm from the end of the Edge Glazing Bar at the Eaves/Gutter. 42mm from the end of the Edge Glazing Bar at the Wall-Plate.</p> <p>Please note that these are nominal positions and you do have flexibility in the exact positioning of the Self-Tapping Screw fixings on the Edge Glazing Bar.</p> <p>When you are happy with the position of the Self-Tapping Screw and have secured the Edge Glazing Bar in position you may want to make a small block (of wood) to act as a locating device for the other Edge Glazing Bar and the Main Glazing Bars.</p> <p>This block is referred to as the Glazing Bar Setting Block later in this Installation guide.</p> <p>This block would sit in the Eaves/Gutter abutting the inside edge of the Eaves/Gutter and the end of the Edge Glazing Bar.</p> <p>You may use another wood block for the Wall-Plate end of the Edge Glazing Bar.</p> <p>Check your levels again.</p> <p>Secure the Edge Glazing Bar in position using (2) Self-Tapping Screws; (1) at the Eaves/Gutter end and (1) at the Wall-Plate end.</p> <div data-bbox="405 1346 799 1644">  </div> <div data-bbox="874 1346 1286 1644">  </div> <div data-bbox="405 1671 799 1962">  </div> <div data-bbox="887 1671 1286 1962">  </div>

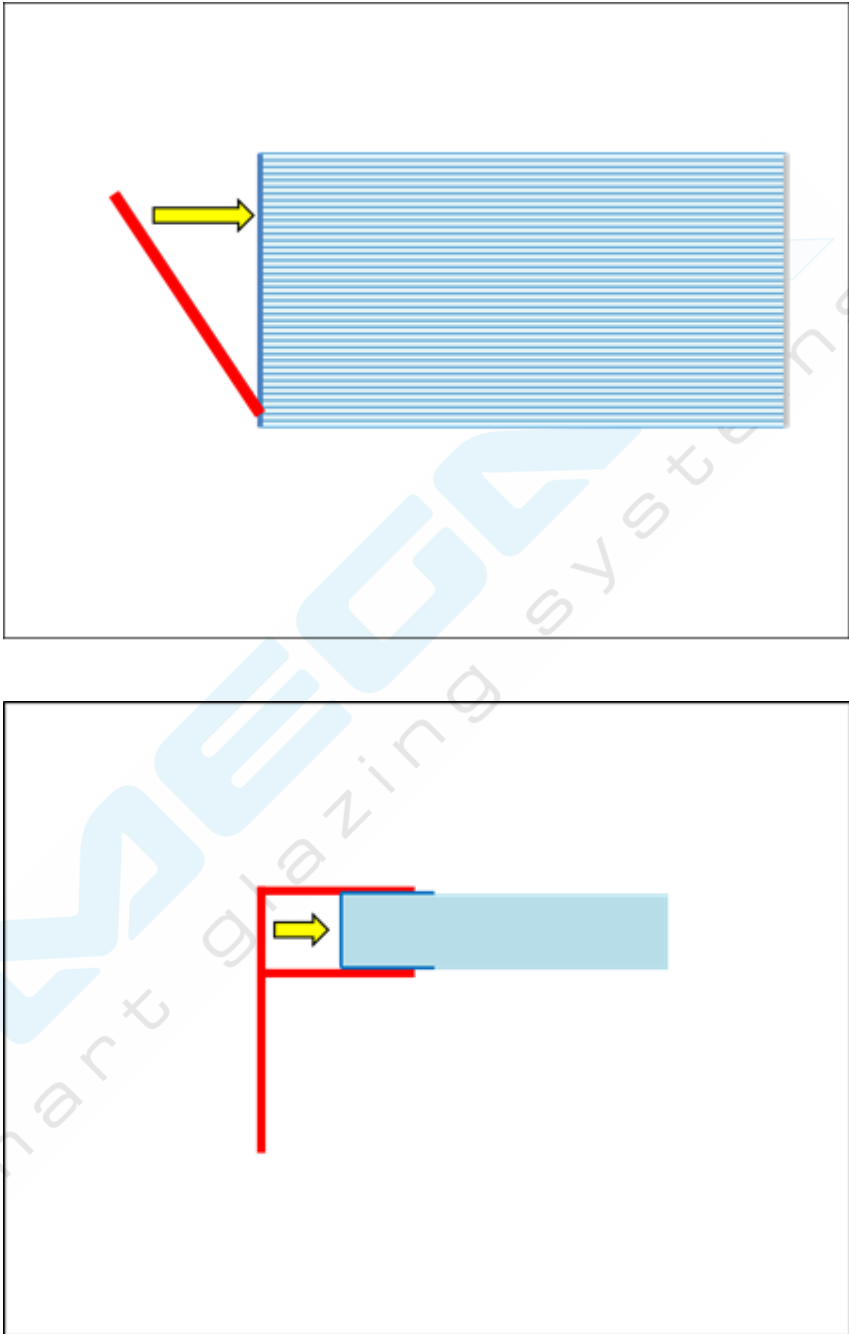
	<u>Stage 06: Fit Roof Panels and Main Glazing Bars</u>
33.	<p data-bbox="400 499 938 537">Fit F Sections onto Glazing Panels:</p> <p data-bbox="400 573 427 611">1.</p> <div data-bbox="459 573 1310 1207">  </div> <div data-bbox="459 1261 1310 1895">  </div>

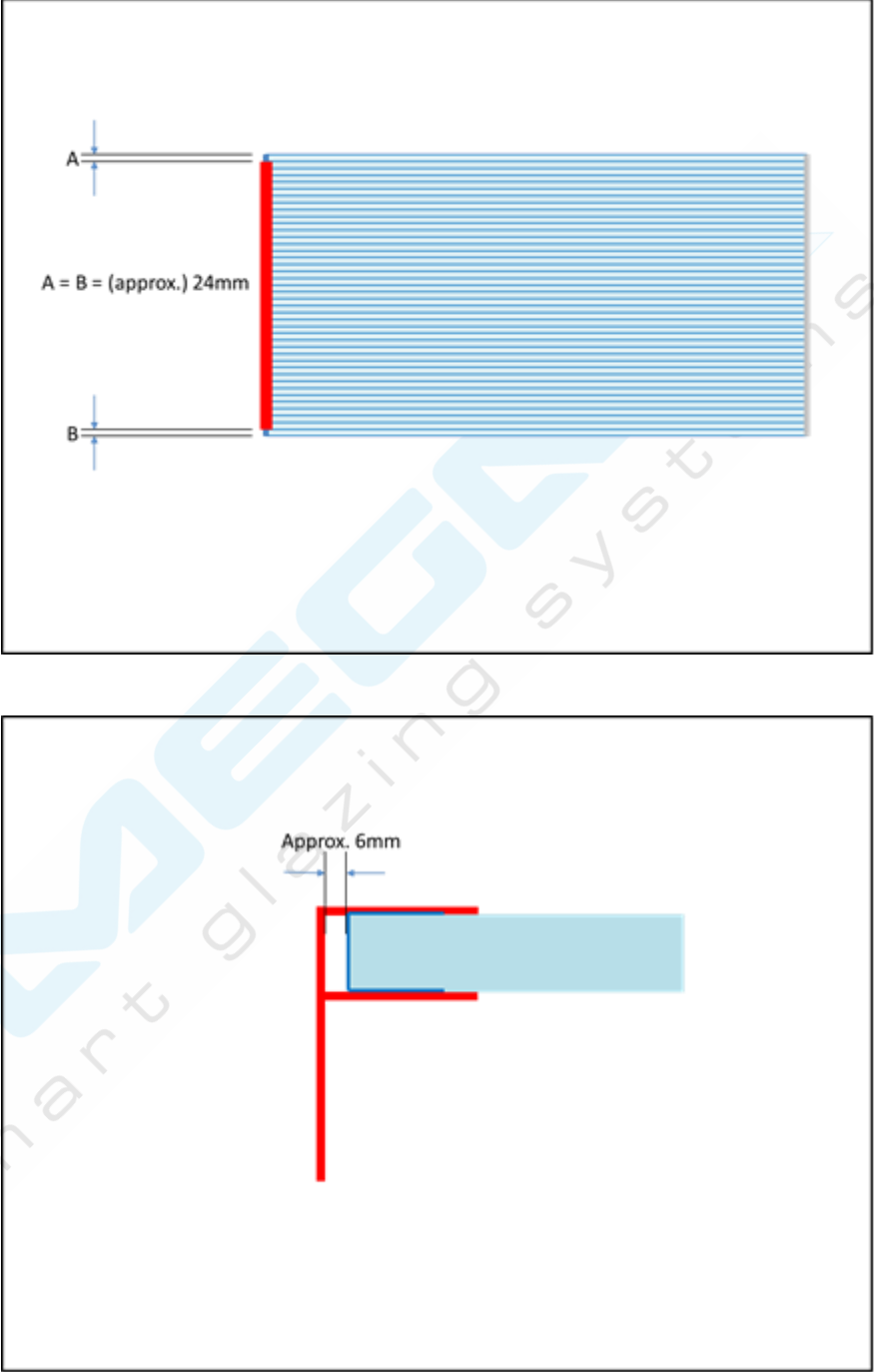
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<p>33. (cont'd.)</p>	<p>2.</p> 
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<p>33. (Cont'd.)</p>	<p>3.</p> 
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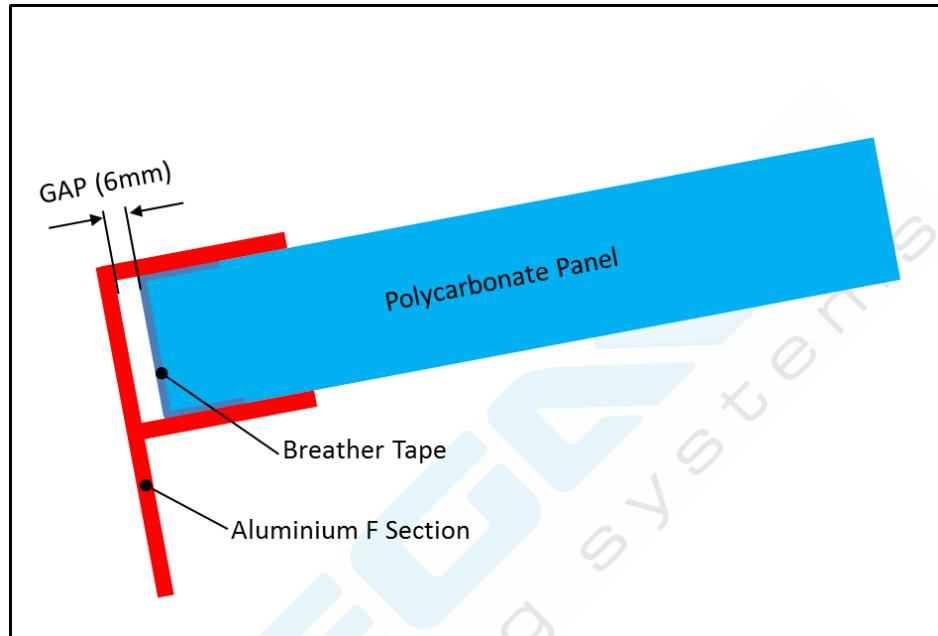
Guide No: 030

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33.
(Cont'd)

Before fitting any of the Glazing Panel assemblies Check Gap between F Section and Glazing Panel.



Fit Glazing Bar End Plates to ALL Glazing Bars before installing Glazing Panel assemblies or Main Glazing Bars.

34

Starting at one end of the canopy.

Remove the protective file from the periphery of both sides of the polycarbonate panels.

Make sure that the panel is in the correct orientation:

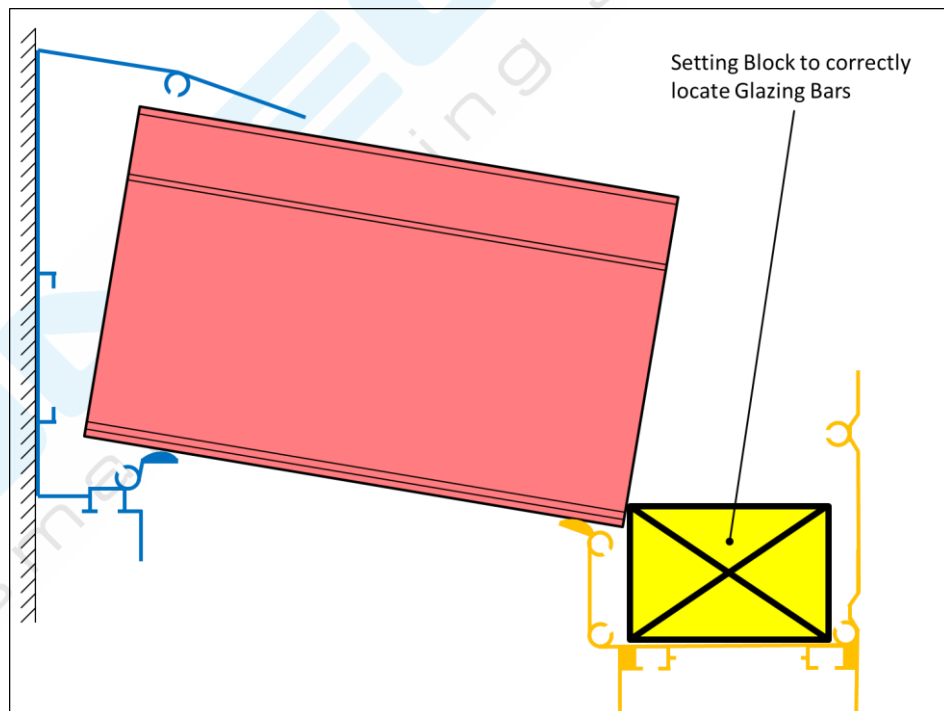
1. Top side of panel facing upwards (this will be the side of the panel with the protective film with the writing on it).
2. The end of the panel with the breather tape fitted is located at the Eaves/Gutter side of the canopy.

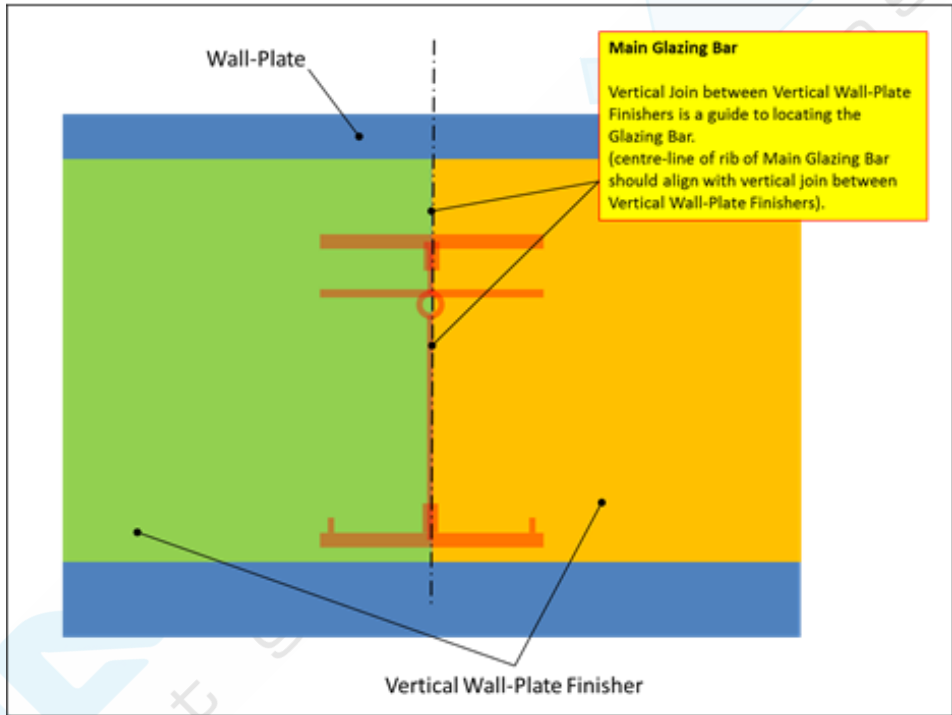
Slide the panel into the pocket of the Edge Glazing Bar.

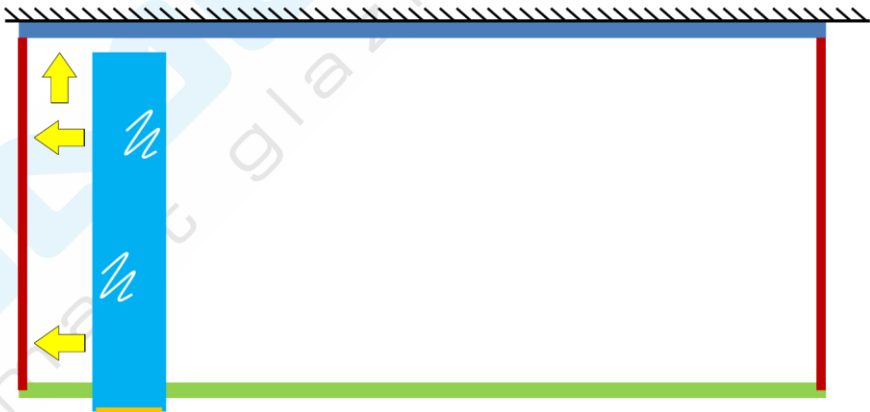
Slide the Main Glazing Bar (pocket) onto the other side of the roof panel.

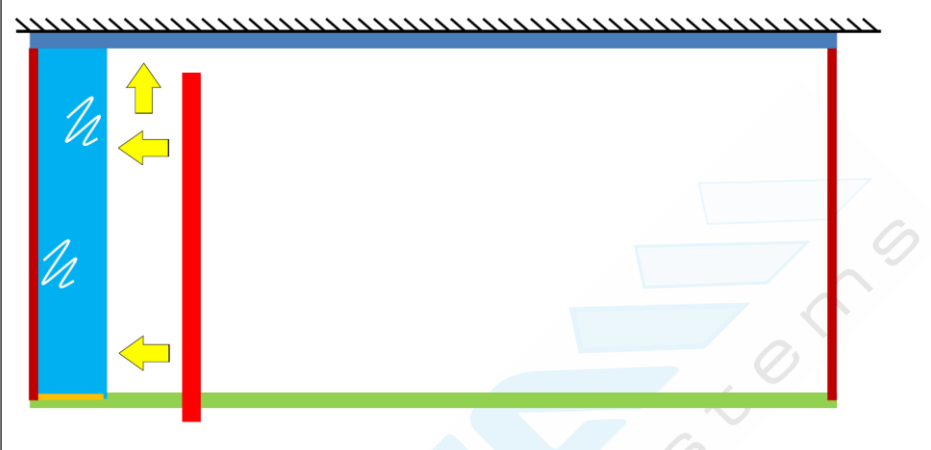

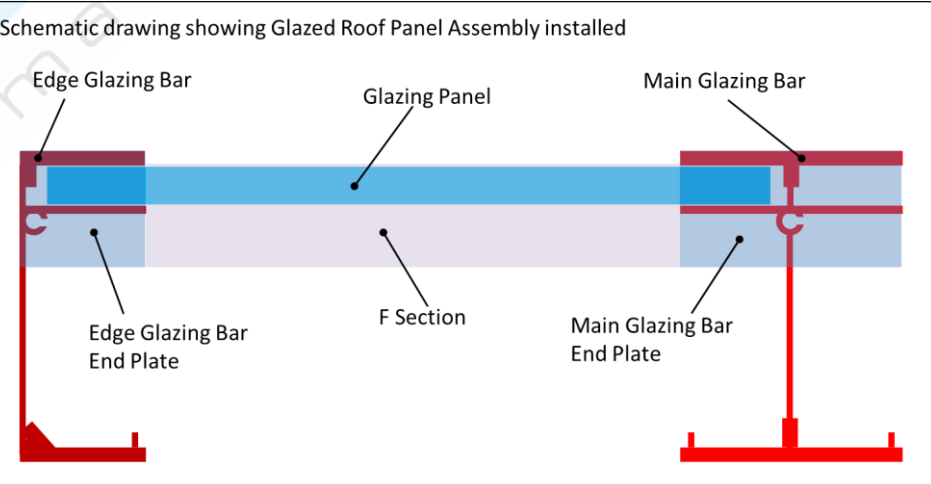
Rest this Main Glazing Bar on the Eaves/Gutter and Wall-Plate.

Locate the **Glazing Bar Setting Block** (described in process step 32) at the end of the Main Glazing Bar so that the Main Glazing bar is in position and aligned with the Edge Glazing Bar.

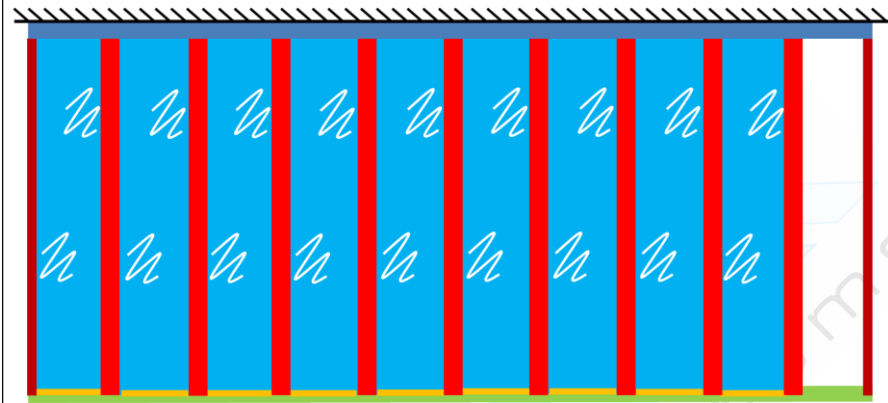


<p>34 (cont'd.)</p>	<p><u>Laterally locating Glazed Panel Assembly and Main Glazing Bars:</u></p> <p>At the Eaves/Gutter; the Glazed Panel Assembly is located by the F Section 'Butting-Up' to the Glazing Bar edges.</p> <p>At the Wall-Plate the location is achieved by measuring the Gap between the Glazing Bars.</p> <p>(Alternatively use the vertical join line between the Vertical Wall-Plate Finishers as a guide).</p> <div data-bbox="395 730 1350 1442">  </div> <p>For standard width canopies use the 'Between Glazing Bar' Dimensions in Section 07 of this guide.</p>
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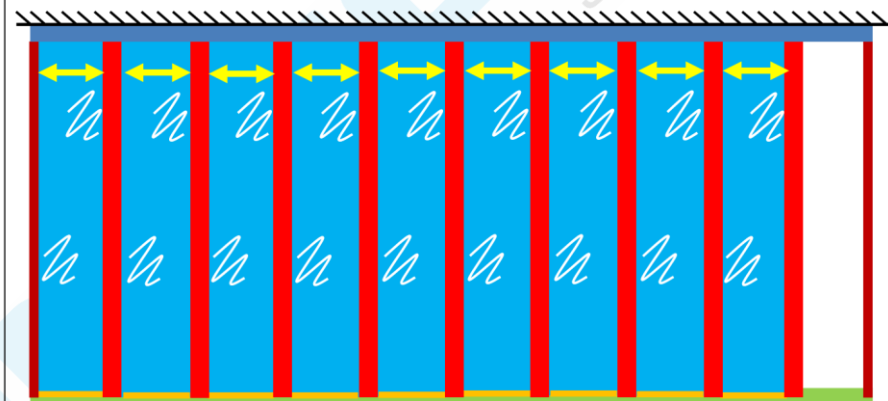
<p>34 (Cont'd)</p>	<p><u>Process Steps for Installing Glazing Panel Assemblies and Main Glazing Bars</u></p> <ol style="list-style-type: none"> 1. Starting at one end side of the canopy install the first Glazing Panel Assembly. 2. Then, install the first Main Glazing Bar. 3. Repeat 1. and 2. until the last Main Glazing Bar is installed. 4. Check and adjust positioning of Main Glazing Bars laterally at the Wall-Plate and Eaves/Gutter. 5. Check Last Glazing Bar position at The Eaves/Gutter using the Setting Block. 6. Secure Last Glazing Bar in position with 1 self-tapping screw at the wall-Plate and 1 the Eaves/Gutter. 7. Remove the self-tapping screw at the Eaves/Gutter of the Edge Glazing Bar and 'swing' the Edge Glazing Bar out (pivoting at the Wall-Plate). 8. Install the last Glazing Panel Assembly. 9. 'Re-screw' Edge Glazing Bar at Eaves/Gutter. <div data-bbox="403 1144 1342 1650"> <p>Inserting first Glazing Panel Assembly</p>  </div>
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<p>34 (Cont'd.)</p>	<p>Installing first Main Glazing Bar onto Glazed Panel assembly and locating in Wall-Plate and on Eaves/Gutter</p>   <p>Schematic drawing showing Glazed Roof Panel Assembly installed</p> 
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34
(Cont'd.)

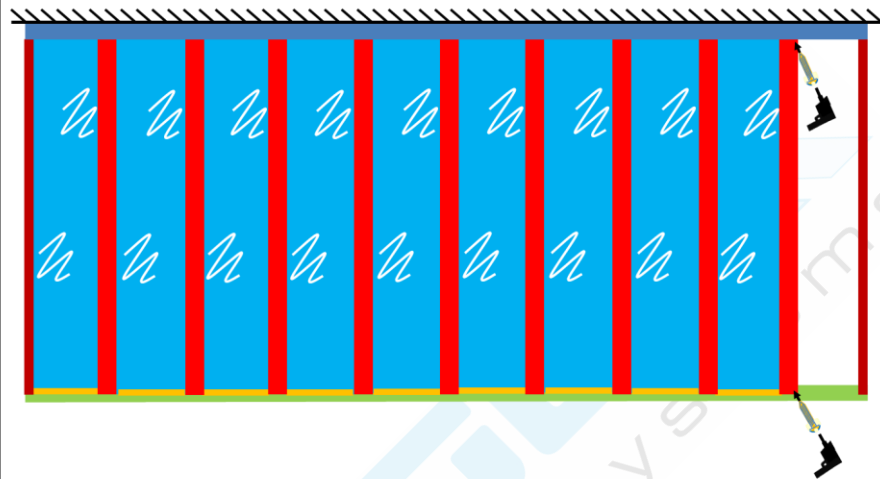


Check and adjust Main Glazing Bar Positions using 'Between Glazing Bar' Dimensions



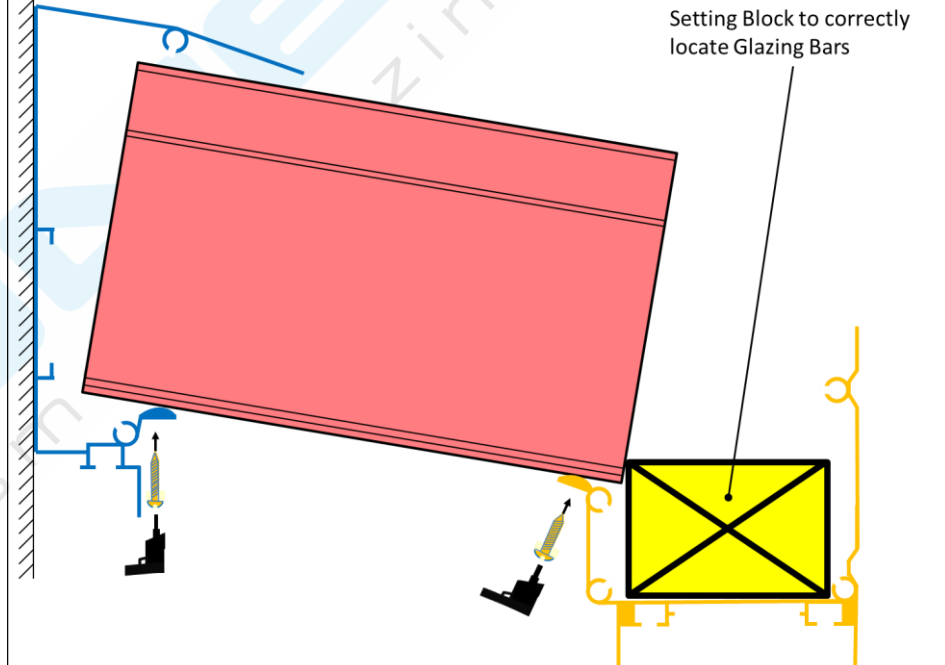
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Secure last Main Glazing Bar with 1 Self-Tapping Screw at Wall-Plate and 1 at Eaves/Gutter



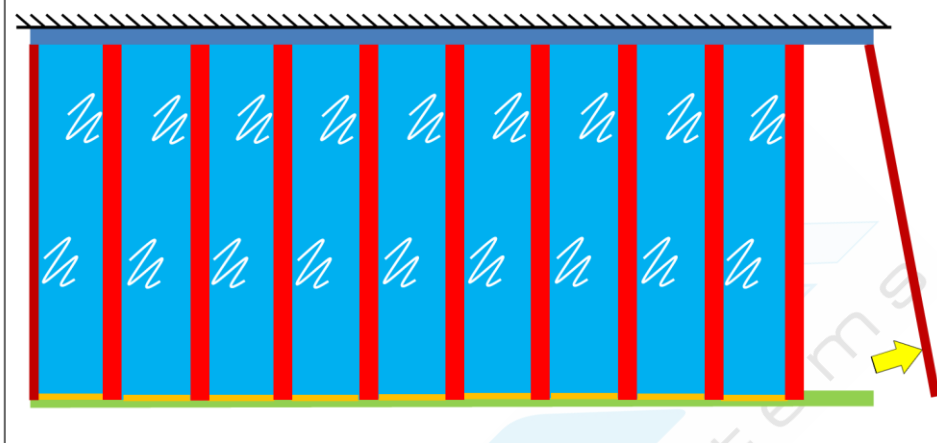
Securing LAST Main Glazing Bar

Setting Block to correctly
locate Glazing Bars

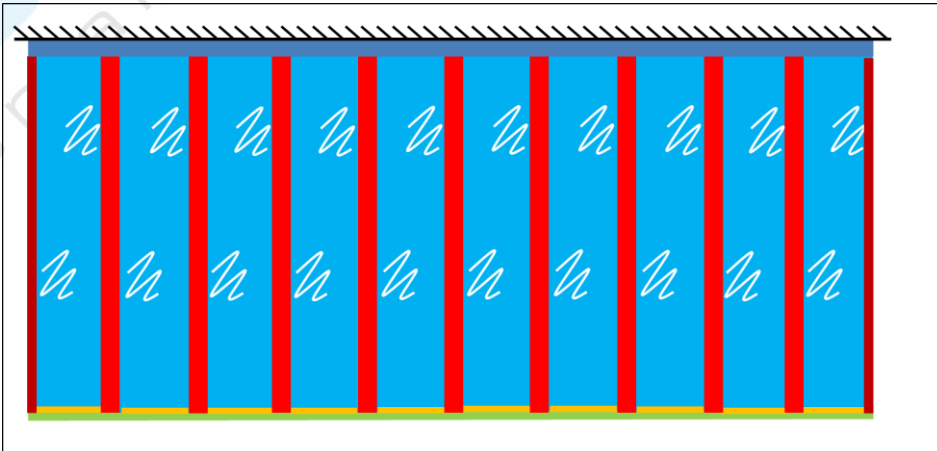
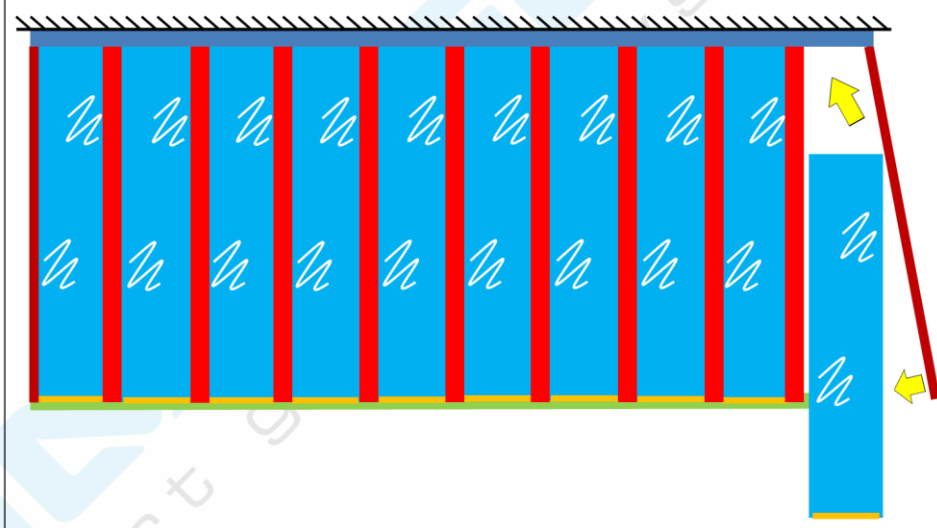


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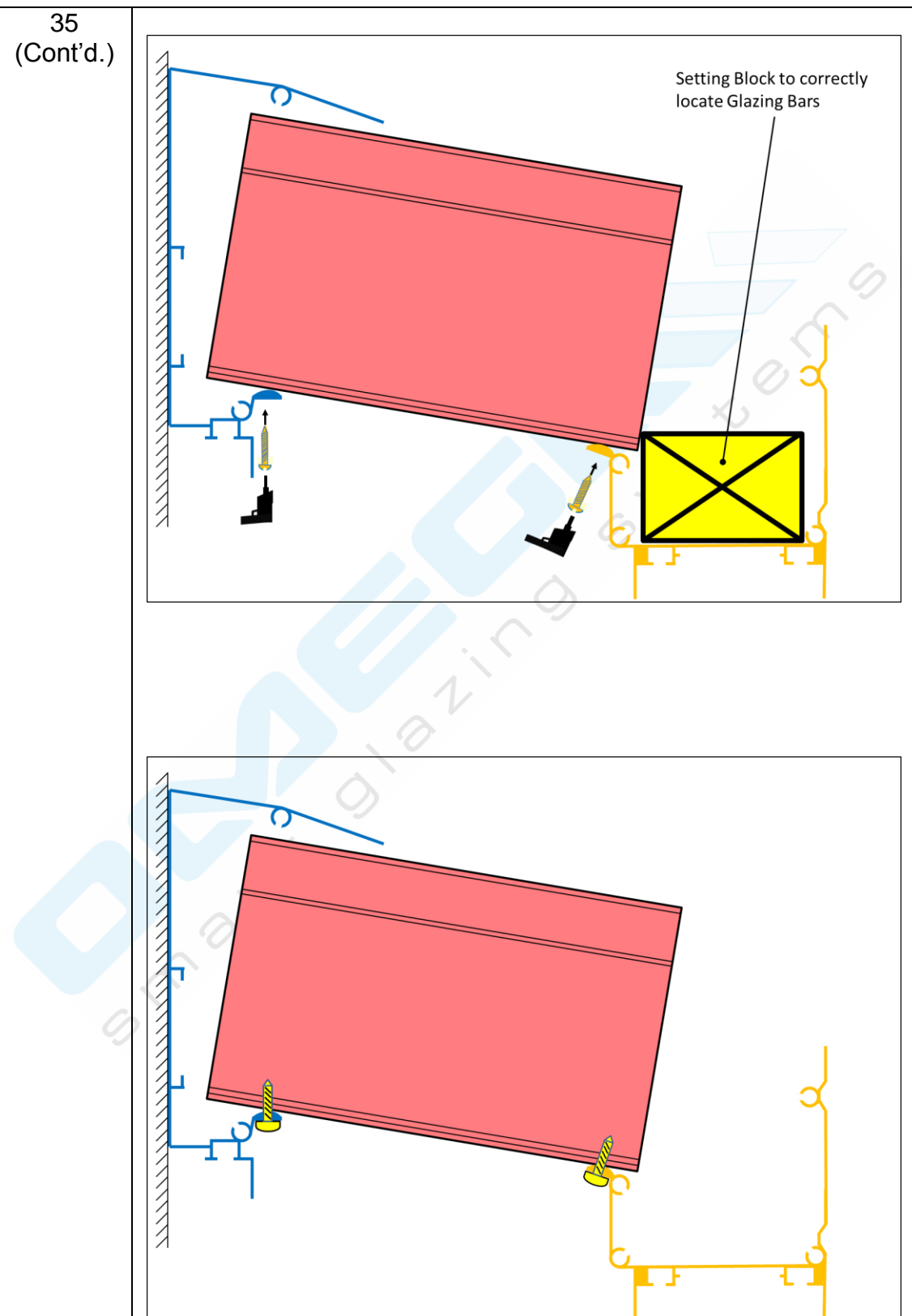
Release Edge Glazing Bar at Eaves/Gutter

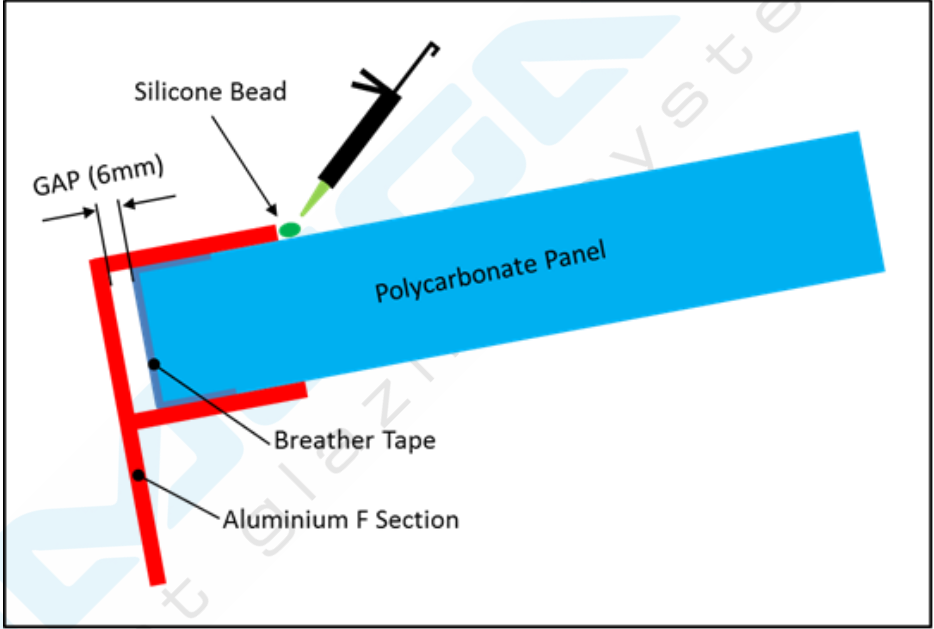


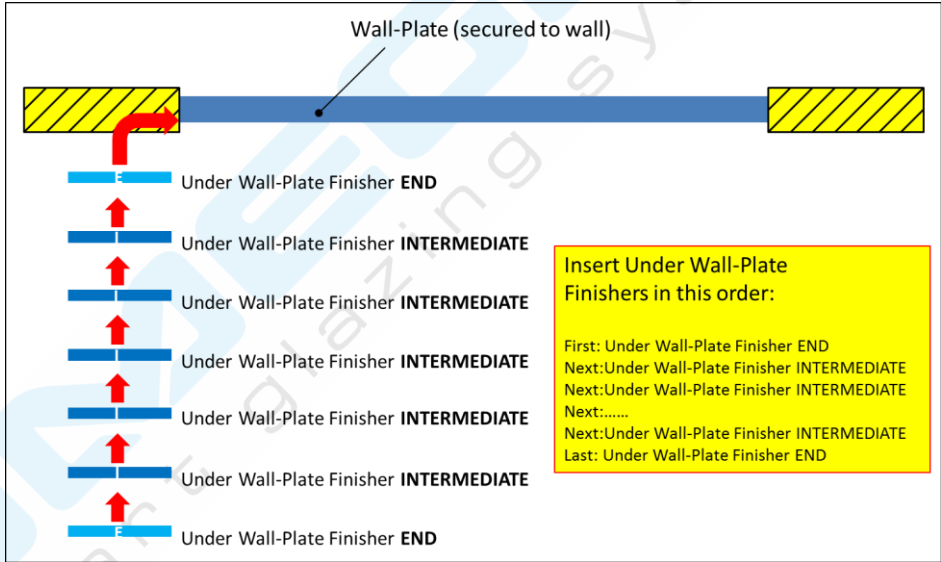
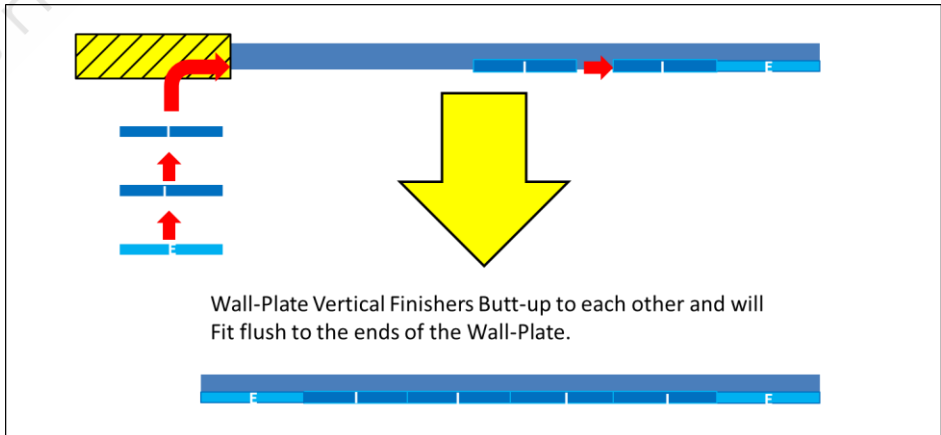
Install last Glazed Roof Panel Assembly



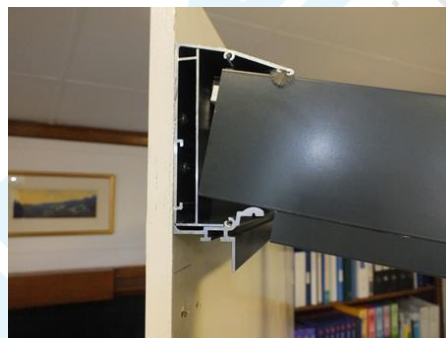
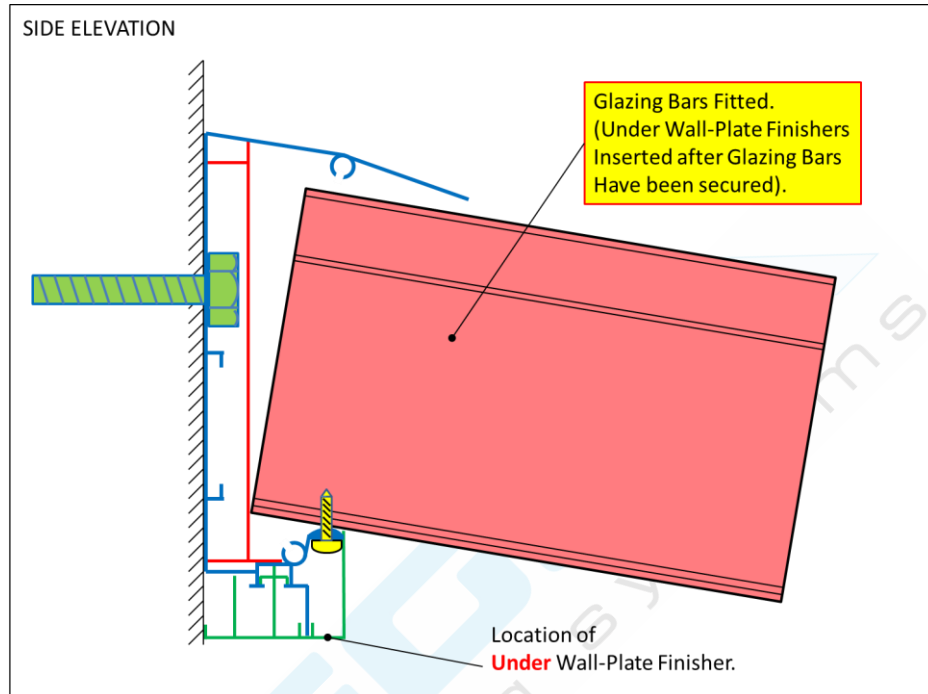
	Stage 07: Fixing Main Glazing Bars
35	<p data-bbox="405 427 1348 539">Check that the alignment of the Main Glazing Bars with The edge Glazing Bars is correct using the Glazing Bar Setting Block (described in Process Step 34).</p>  <p data-bbox="405 1196 1348 1308">Secure the Main Glazing Bars using (4) Self-Tapping Screws; (2) at the Wall-Plate end of the Main Glazing Bar and (2) at the Eaves/Gutter end.</p> 



	<u>Stage 08: Applying Silicone Bead to Top of F Section/Glazing Panel Junction.</u>
36	<p>With Glazing Bars secured, Glazing Panel Assembly located in its final position (Gap between inside face of F Section and end of panel of 6mm),</p> <p>Run a bead of silicone along the top edge of the F Section adjacent to the top surface of the Polycarbonate panel. This is important in preventing water ingress into the Polycarbonate panel.</p> <p>Side view of Polycarbonate Panel and Aluminium F Section</p> 

	Stage 09: Installing UNDER Wall-Plate Finishers to Wall-Plate
37	<p data-bbox="403 427 1214 461">These components slide into position into the Wall-Plate.</p> <p data-bbox="403 499 1281 533">There are (2) lengths of Vertical Wall-Plate finishers supplied:</p> <p data-bbox="403 571 1246 719">There are always (2) UNDER Wall-Plate Finisher – Ends. (These components are slightly longer (5mm) than the Intermediate Finishers). These components will be labelled 'E'.</p> <p data-bbox="403 757 1353 904">UNDER Wall-Plate Finisher – Intermediates are also supplied. The number of these components supplied is dictated by the width of the canopy. These components will be labelled 'I'.</p> <div data-bbox="403 954 1347 1514">  </div> <div data-bbox="403 1585 1347 2018">  <p data-bbox="611 1877 1169 1928">Wall-Plate Vertical Finishers Butt-up to each other and will Fit flush to the ends of the Wall-Plate.</p> </div>

37
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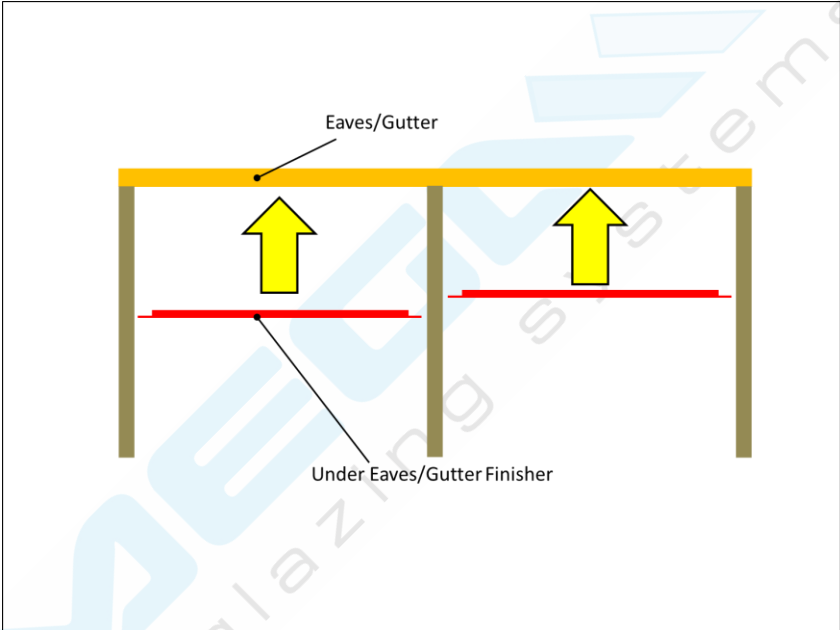
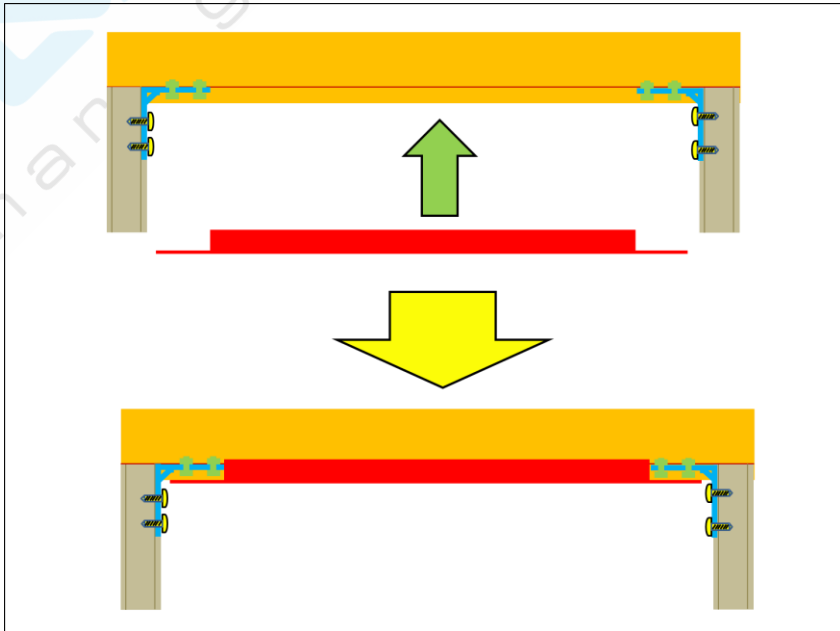
Guide No: 030

Description: Omega Smart+ Lean-To Canopy, 16mm structured polycarbonate

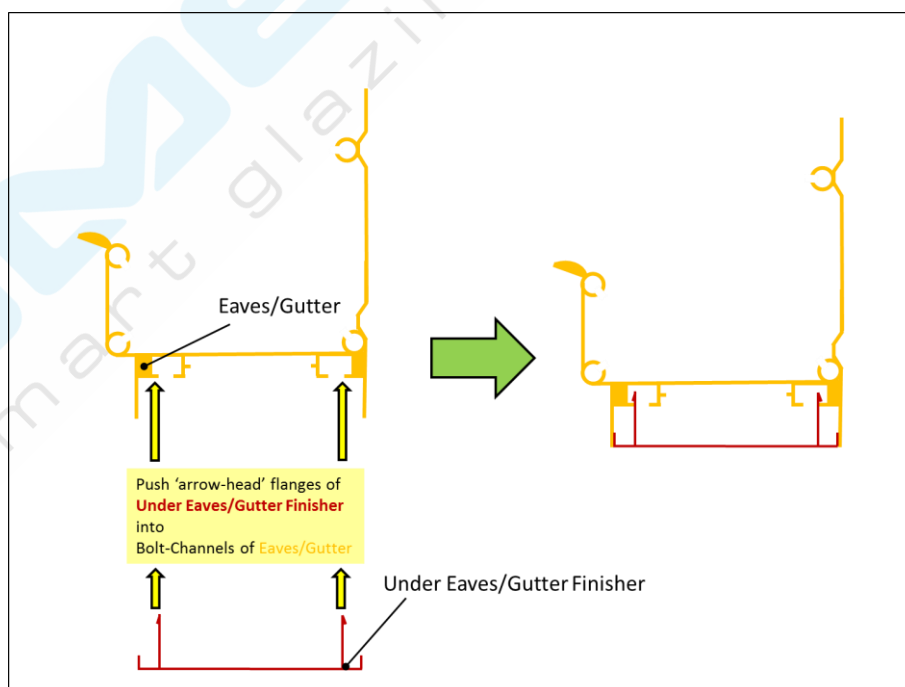
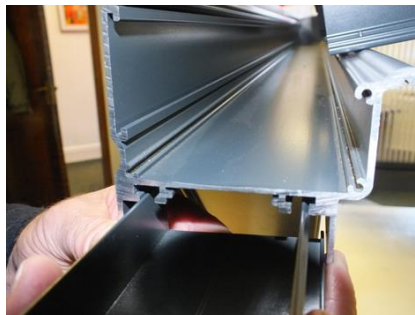
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38	<p data-bbox="403 389 1337 427">Fit Wall-Plate End Plates to Wall-Plate with Self-Tapping Screws.</p> <div data-bbox="411 461 847 1032">A close-up photograph showing a white, L-shaped wall-plate end plate being fastened to a dark surface. A silver self-tapping screw is being driven into the plate by a power drill.</div> <div data-bbox="890 461 1326 1032">A photograph showing the installed white wall-plate end plate on a roof structure. The plate is secured with several self-tapping screws and is positioned at the edge of the roof, with a corrugated metal roof sheet visible below it.</div>
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	Stage 10: Fitting Knee Braces to Eaves/Supporting Posts (This stage only required if canopy is fitted with Knee Braces)
<p>39</p>	<p>The assembly process here is the same for securing all Knee Braces in position.</p> <p><u>Locate the Knee brace in position:</u> Ensure that the knee brace sits within the (2) flange profiles on the Eaves/Gutter and also sits over the Knee Brace Bracket on the Supporting post.</p> <p>The Knee Brace is supplied with the pilot holes for securing the Knee Brace to the Knee Brace Brackets pre-drilled. Before any drilling for pilot holes in the Eaves/gutter is undertaken ensure that the end of the Knee Brace with the pre-drilled pilot holes is located at the knee Brace Bracket.</p> <p>Ensure that the Knee Brace is located so that both end of the Knee Brace are located flush to the Eaves/Gutter and the Supporting Post.</p> <p><u>Securing Knee Brace:</u></p> <ol style="list-style-type: none"> 1. Secure the Knee Brace in position by driving (1) Self-Tapping screw through one of the pre-drilled holes in the Knee Brace into the Knee Brace Bracket. 2. Next drill a pilot hole through the Eaves/Gutter into the Knee Brace and secure by driving a self-tapping screw into the Knee Brace. 3. Repeat these (2) steps on the other side of the Knee Brace. 4. Drill remaining (2) pilot holes in the Eaves/Gutter. 5. Drive remaining (4) self-tapping screws. <p>Repeat the entire process for all Knee Braces.</p> <div data-bbox="986 461 1353 730">  </div> <div data-bbox="986 741 1353 1014">  </div> <div data-bbox="986 1048 1353 1321">  </div> <div data-bbox="986 1355 1353 1628">  </div> <div data-bbox="986 1662 1353 1935">  </div>

	Stage 11: Installing Under Eaves/Gutter Finishers
40	<p data-bbox="403 427 1278 495">Fitting Under Eaves/Gutter Finishers on a canopy – Knee Braces NOT Fitted</p> <p data-bbox="403 535 1251 680">The Finishers are pushed into the Bolt Channels. The face of the Eaves/Gutter Finisher will be 'flush' with the bottom edges of the Eaves/Gutter. When secured correctly the Finisher will 'Snap' into place.</p> <div data-bbox="451 712 1294 1339">  </div> <div data-bbox="451 1357 1294 1986">  </div>

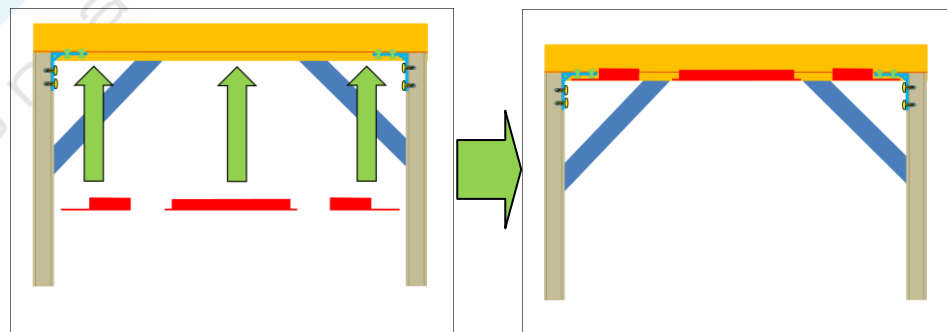
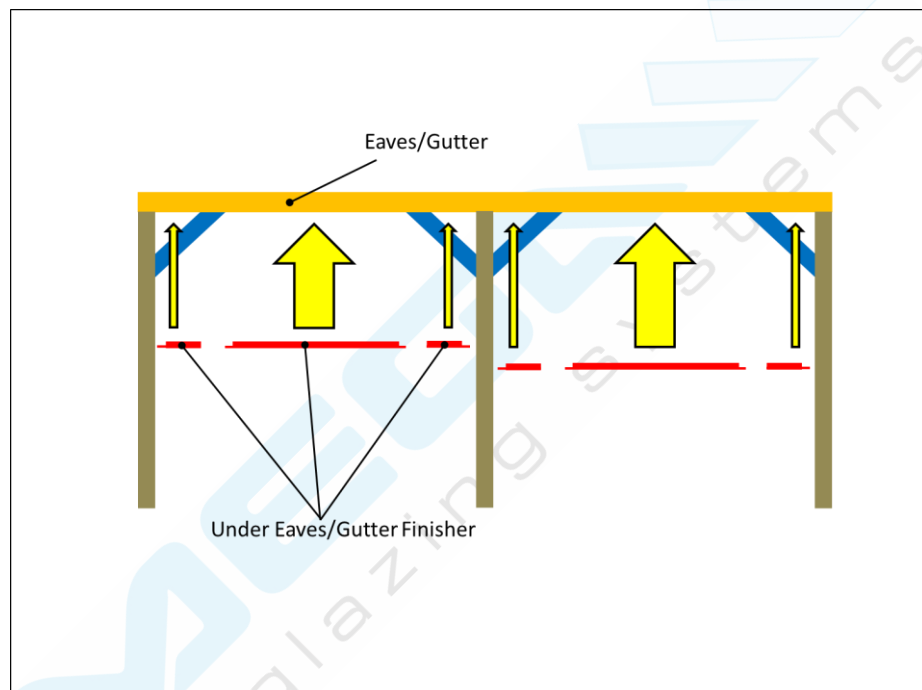
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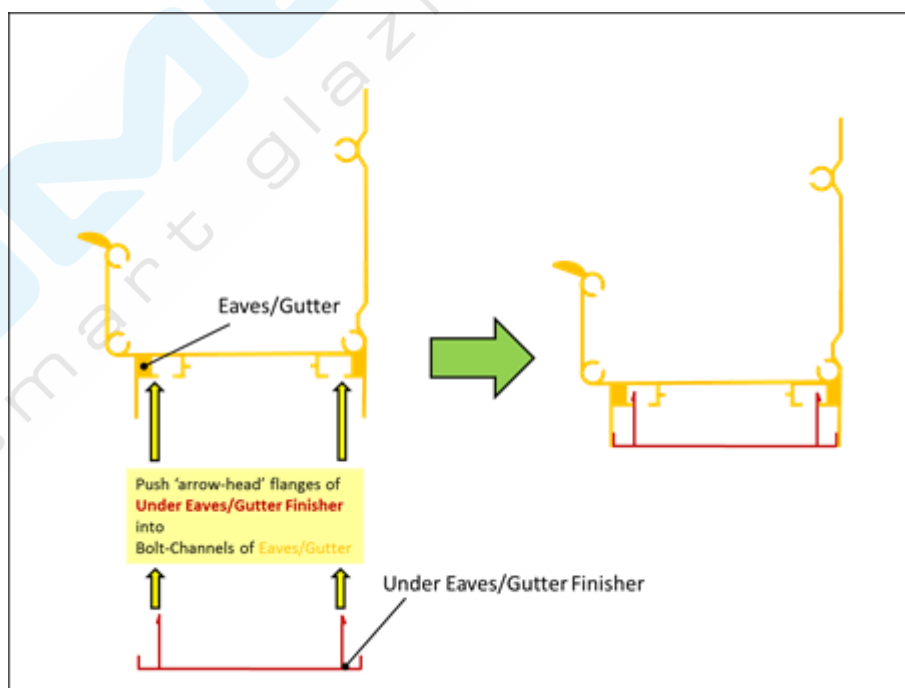
41

Fitting Under Eaves/Gutter Finishers on a canopy WITH KNEE-BRACES

The Finishers are pushed into the Bolt Channels.
The face of the Eaves/Gutter Finisher will be 'flush' with the bottom edges of the Eaves/Gutter.
When secured correctly the Finisher will 'Snap' into place.



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(Cont'd.)




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	Stage 12: Secure Supporting Post Feet in Foundations
42	<p data-bbox="403 427 1249 533">Pour Concrete mix into Supporting Post Holes covering the Supporting Post Feet with recommended 300mm cube of concrete.</p>  <p data-bbox="403 1267 858 1305">Make good surface as required.</p>

07 Glazing Bars and Glazing Bar Spacing

Canopy Size	Glazing Bars and Glazing Bar Spacing				Edge Bar Base Width (mm)	Main Bar Base Width (mm)	Dim. Between Bars (mm)
	Qty. Edge Bars	Qty. Main Bars	Qty. Panels	Panel Width (mm)			
2.1m W x 1.5m P	2	1	2	1,033	35	60	985
3.1m W x 1.5m P	2	2	3	1,018	35	60	970
4.2m W x 1.5m P	2	3	4	1,036	35	60	988
5.2m W x 1.5m P	2	4	5	1,026	35	60	978
6.3m W x 1.5m P	2	5	6	1,036	35	60	988
7.4m W x 1.5m P	2	6	7	1,044	35	60	996
8.4m W x 1.5m P	2	7	8	1,037	35	60	989
9.5m W x 1.5m P	2	8	9	1,042	35	60	994
10.6m W x 1.5m P	2	9	10	1,047	35	60	999
11.6m W x 1.5m P	2	10	11	1,042	35	60	994
12.0m W x 1.5m P	2	11	12	987	35	60	939
2.1m W x 2.0m P	2	1	2	1,033	35	60	985
3.1m W x 2.0m P	2	2	3	1,018	35	60	970
4.2m W x 2.0m P	2	3	4	1,036	35	60	988
5.2m W x 2.0m P	2	4	5	1,026	35	60	978
6.3m W x 2.0m P	2	5	6	1,036	35	60	988
7.4m W x 2.0m P	2	6	7	1,044	35	60	996
8.4m W x 2.0m P	2	7	8	1,037	35	60	989
9.5m W x 2.0m P	2	8	9	1,042	35	60	994
10.6m W x 2.0m P	2	9	10	1,047	35	60	999
11.6m W x 2.0m P	2	10	11	1,042	35	60	994
12.0m W x 2.0m P	2	11	12	987	35	60	939
2.1m W x 2.5m P	2	1	2	1,033	35	60	985
3.1m W x 2.5m P	2	2	3	1,018	35	60	970
4.2m W x 2.5m P	2	3	4	1,036	35	60	988
5.2m W x 2.5m P	2	4	5	1,026	35	60	978
6.3m W x 2.5m P	2	5	6	1,036	35	60	988
7.4m W x 2.5m P	2	6	7	1,044	35	60	996
8.4m W x 2.5m P	2	7	8	1,037	35	60	989
9.5m W x 2.5m P	2	8	9	1,042	35	60	994
10.6m W x 2.5m P	2	9	10	1,047	35	60	999
11.6m W x 2.5m P	2	10	11	1,042	35	60	994
12.0m W x 2.5m P	2	11	12	987	35	60	939

07 Glazing Bars and Glazing Bar Spacing

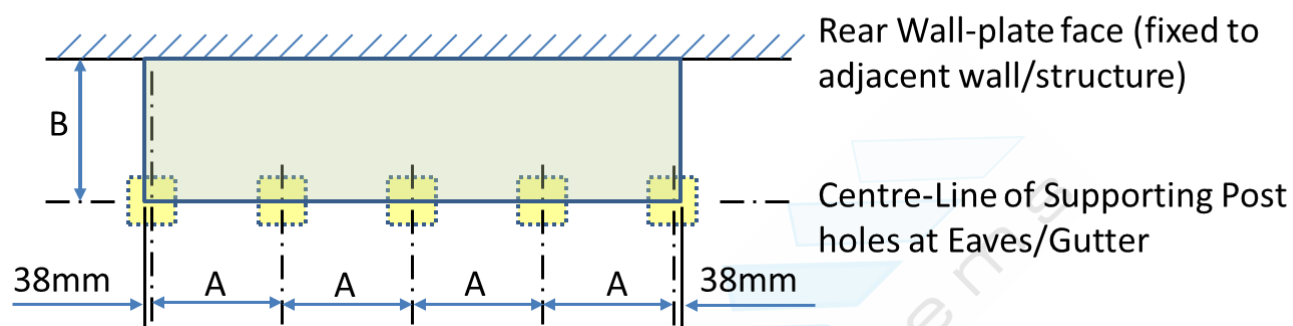
Canopy Size	Glazing Bars and Glazing Bar Spacing				Edge Bar Base Width (mm)	Main Bar Base Width (mm)	Dim. Between Bars (mm)
	Qty. Edge Bars	Qty. Main Bars	Qty. Panels	Panel Width (mm)			
2.1m W x 3.0m P	2	1	2	1,033	35	60	985
3.1m W x 3.0m P	2	2	3	1,018	35	60	970
4.2m W x 3.0m P	2	3	4	1,036	35	60	988
5.2m W x 3.0m P	2	4	5	1,026	35	60	978
6.3m W x 3.0m P	2	5	6	1,036	35	60	988
7.4m W x 3.0m P	2	6	7	1,044	35	60	996
8.4m W x 3.0m P	2	7	8	1,037	35	60	989
9.5m W x 3.0m P	2	8	9	1,042	35	60	994
10.6m W x 3.0m P	2	9	10	1,047	35	60	999
11.6m W x 3.0m P	2	10	11	1,042	35	60	994
12.0m W x 3.0m P	2	11	12	987	35	60	939
2.1m W x 3.5m P	2	3	4	511	35	60	463
2.8m W x 3.5m P	2	4	5	546	35	60	498
3.5m W x 3.5m P	2	5	6	570	35	60	522
4.2m W x 3.5m P	2	6	7	587	35	60	539
4.9m W x 3.5m P	2	7	8	599	35	60	551
5.6m W x 3.5m P	2	8	9	609	35	60	561
6.3m W x 3.5m P	2	9	10	617	35	60	569
7.0m W x 3.5m P	2	10	11	623	35	60	575
7.8m W x 3.5m P	2	11	12	637	35	60	589
8.4m W x 3.5m P	2	12	13	633	35	60	585
9.2m W x 3.5m P	2	13	14	644	35	60	596
9.9m W x 3.5m P	2	14	15	647	35	60	599
10.6m W x 3.5m P	2	15	16	650	35	60	602
11.4m W x 3.5m P	2	16	17	658	35	60	610
12.0m W x 3.5m P	2	17	18	654	35	60	606

07 Glazing Bars and Glazing Bar Spacing

Canopy Size	Glazing Bars and Glazing Bar Spacing				Edge Bar Base Width (mm)	Main Bar Base Width (mm)	Dim. Between Bars (mm)
	Qty. Edge Bars	Qty. Main Bars	Qty. Panels	Panel Width (mm)			
2.1m W x 4.0m P	2	3	4	511	35	60	463
2.8m W x 4.0m P	2	4	5	546	35	60	498
3.5m W x 4.0m P	2	5	6	570	35	60	522
4.2m W x 4.0m P	2	6	7	587	35	60	539
4.9m W x 4.0m P	2	7	8	599	35	60	551
5.6m W x 4.0m P	2	8	9	609	35	60	561
6.3m W x 4.0m P	2	9	10	617	35	60	569
7.0m W x 4.0m P	2	10	11	623	35	60	575
7.8m W x 4.0m P	2	11	12	637	35	60	589
8.4m W x 4.0m P	2	12	13	633	35	60	585
9.2m W x 4.0m P	2	13	14	644	35	60	596
9.9m W x 4.0m P	2	14	15	647	35	60	599
10.6m W x 4.0m P	2	15	16	650	35	60	602
11.4m W x 4.0m P	2	16	17	658	35	60	610
12.0m W x 4.0m P	2	17	18	654	35	60	606
3.1m W x 4.5m P	2	5	6	503	35	60	455
3.5m W x 4.5m P	2	6	7	487	35	60	439
4.2m W x 4.5m P	2	7	8	512	35	60	464
4.8m W x 4.5m P	2	8	9	520	35	60	472
5.2m W x 4.5m P	2	9	10	507	35	60	459
5.9m W x 4.5m P	2	10	11	523	35	60	475
6.3m W x 4.5m P	2	11	12	512	35	60	464
7.0m W x 4.5m P	2	12	13	526	35	60	478
7.4m W x 4.5m P	2	13	14	516	35	60	468
8.0m W x 4.5m P	2	14	15	521	35	60	473
8.4m W x 4.5m P	2	15	16	512	35	60	464
9.1m W x 4.5m P	2	16	17	523	35	60	475
9.6m W x 4.5m P	2	17	18	521	35	60	473
10.2m W x 4.5m P	2	18	19	524	35	60	476
10.7m W x 4.5m P	2	19	20	523	35	60	475
11.2m W x 4.5m P	2	20	21	521	35	60	473
11.9m W x 4.5m P	2	21	22	524	35	60	476
12.0m W x 4.5m P	2	22	23	509	35	60	461

08: Setting Out Foundation Holes for Standard Range of Lean-To Canopies

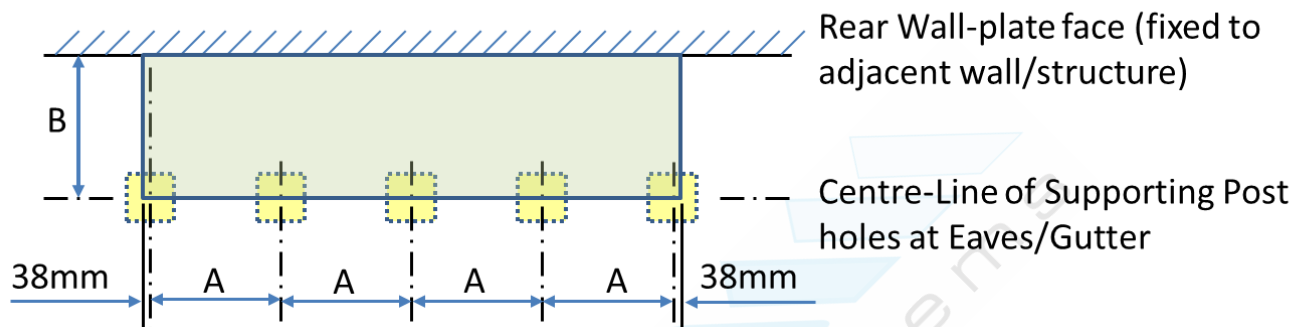
PLAN VIEW (from above canopy)



Canopy Size	Qty. Posts	Supporting Post and Foundation Hole Centres (mm)				
		Dim. A	Dim. B @ 5 Degree Roof Pitch	Dim B @ 10 Degree Roof Pitch	Dim B @ 15 Degree Roof Pitch	Dim B @ 20 Degree Roof Pitch
2.1m W x 1.5m P	2	1,950	1,542	1,525	1,496	1,457
3.1m W x 1.5m P	2	2,950	1,542	1,525	1,496	1,457
4.2m W x 1.5m P	3	1,988	1,542	1,525	1,496	1,457
5.2m W x 1.5m P	3	2,488	1,542	1,525	1,496	1,457
6.3m W x 1.5m P	3	3,038	1,542	1,525	1,496	1,457
7.4m W x 1.5m P	4	2,367	1,542	1,525	1,496	1,457
8.4m W x 1.5m P	4	2,700	1,542	1,525	1,496	1,457
9.5m W x 1.5m P	5	2,281	1,542	1,525	1,496	1,457
10.6m W x 1.5m P	5	2,556	1,542	1,525	1,496	1,457
11.6m W x 1.5m P	5	2,806	1,542	1,525	1,496	1,457
12.0m W x 1.5m P	5	2,906	1,542	1,525	1,496	1,457
2.1m W x 2.0m P	2	1,950	2,040	2,017	1,979	1,927
3.1m W x 2.0m P	2	2,950	2,040	2,017	1,979	1,927
4.2m W x 2.0m P	3	1,988	2,040	2,017	1,979	1,927
5.2m W x 2.0m P	3	2,488	2,040	2,017	1,979	1,927
6.3m W x 2.0m P	3	3,038	2,040	2,017	1,979	1,927
7.4m W x 2.0m P	4	2,367	2,040	2,017	1,979	1,927
8.4m W x 2.0m P	4	2,700	2,040	2,017	1,979	1,927
9.5m W x 2.0m P	5	2,281	2,040	2,017	1,979	1,927
10.6m W x 2.0m P	5	2,556	2,040	2,017	1,979	1,927
11.6m W x 2.0m P	5	2,806	2,040	2,017	1,979	1,927
12.0m W x 2.0m P	5	2,906	2,040	2,017	1,979	1,927

08 Setting Out Foundation Holes for Standard Range of Lean-To Canopies

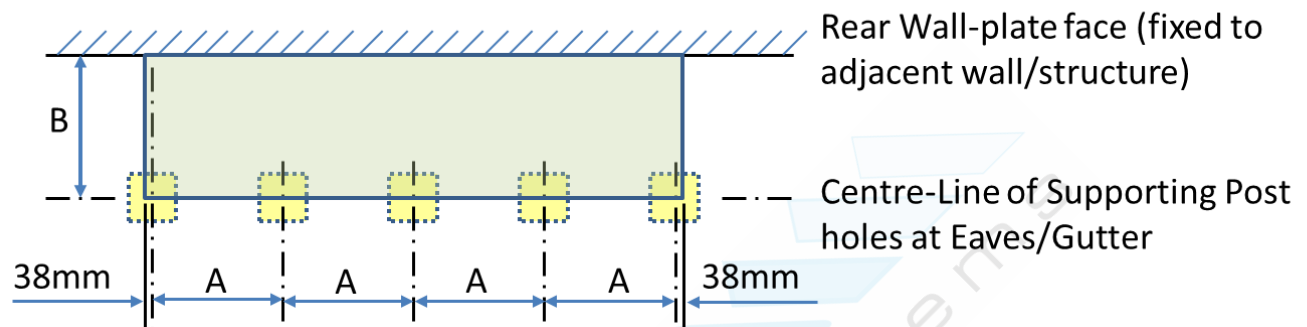
PLAN VIEW (from above canopy)



Canopy Size	Qty. Posts	Supporting Post and Foundation Hole Centres (mm)				
		Dim. A	Dim. B @ 5 Degree Roof Pitch	Dim B @ 10 Degree Roof Pitch	Dim B @ 15 Degree Roof Pitch	Dim B @ 20 Degree Roof Pitch
2.1m W x 2.5m P	2	1,950	2,538	2,510	2,462	2,397
3.1m W x 2.5m P	2	2,950	2,538	2,510	2,462	2,397
4.2m W x 2.5m P	3	1,988	2,538	2,510	2,462	2,397
5.2m W x 2.5m P	3	2,488	2,538	2,510	2,462	2,397
6.3m W x 2.5m P	3	3,038	2,538	2,510	2,462	2,397
7.4m W x 2.5m P	4	2,367	2,538	2,510	2,462	2,397
8.4m W x 2.5m P	4	2,700	2,538	2,510	2,462	2,397
9.5m W x 2.5m P	5	2,281	2,538	2,510	2,462	2,397
10.6m W x 2.5m P	5	2,556	2,538	2,510	2,462	2,397
11.6m W x 2.5m P	5	2,806	2,538	2,510	2,462	2,397
12.0m W x 2.5m P	5	2,906	2,538	2,510	2,462	2,397
2.1m W x 3.0m P	2	1,950	3,036	3,002	2,945	2,867
3.1m W x 3.0m P	2	2,950	3,036	3,002	2,945	2,867
4.2m W x 3.0m P	3	1,988	3,036	3,002	2,945	2,867
5.2m W x 3.0m P	3	2,488	3,036	3,002	2,945	2,867
6.3m W x 3.0m P	3	3,038	3,036	3,002	2,945	2,867
7.4m W x 3.0m P	4	2,367	3,036	3,002	2,945	2,867
8.4m W x 3.0m P	4	2,700	3,036	3,002	2,945	2,867
9.5m W x 3.0m P	5	2,281	3,036	3,002	2,945	2,867
10.6m W x 3.0m P	5	2,556	3,036	3,002	2,945	2,867
11.6m W x 3.0m P	5	2,806	3,036	3,002	2,945	2,867
12.0m W x 3.0m P	5	2,906	3,036	3,002	2,945	2,867

08 Setting Out Foundation Holes for Standard Range of Lean-To Canopies

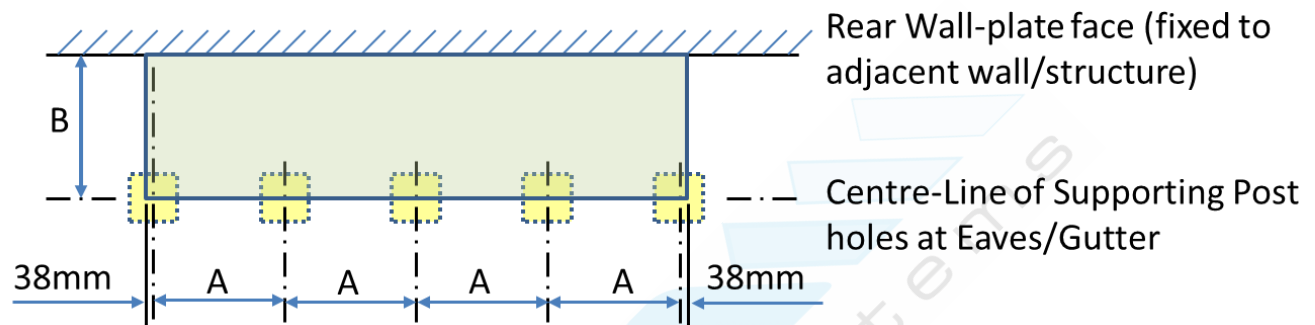
PLAN VIEW (from above canopy)



Canopy Size	Qty. Posts	Supporting Post and Foundation Hole Centres (mm)				
		Dim. A	Dim. B @ 5 Degree Roof Pitch	Dim B @ 10 Degree Roof Pitch	Dim B @ 15 Degree Roof Pitch	Dim B @ 20 Degree Roof Pitch
2.1m W x 3.5m P	2	1,950	3,534	3,494	3,428	3,336
2.8m W x 3.5m P	2	2,650	3,534	3,494	3,428	3,336
3.5m W x 3.5m P	3	1,638	3,534	3,494	3,428	3,336
4.2m W x 3.5m P	3	1,988	3,534	3,494	3,428	3,336
4.9m W x 3.5m P	3	2,338	3,534	3,494	3,428	3,336
5.6m W x 3.5m P	3	2,688	3,534	3,494	3,428	3,336
6.3m W x 3.5m P	4	2,000	3,534	3,494	3,428	3,336
7.0m W x 3.5m P	4	2,233	3,534	3,494	3,428	3,336
7.8m W x 3.5m P	4	2,500	3,534	3,494	3,428	3,336
8.4m W x 3.5m P	4	2,700	3,534	3,494	3,428	3,336
9.2m W x 3.5m P	5	2,206	3,534	3,494	3,428	3,336
9.9m W x 3.5m P	5	2,381	3,534	3,494	3,428	3,336
10.6m W x 3.5m P	5	2,556	3,534	3,494	3,428	3,336
11.4m W x 3.5m P	5	2,756	3,534	3,494	3,428	3,336
12.0m W x 3.5m P	5	2,906	3,534	3,494	3,428	3,336

08 Setting Out Foundation Holes for Standard Range of Lean-To Canopies

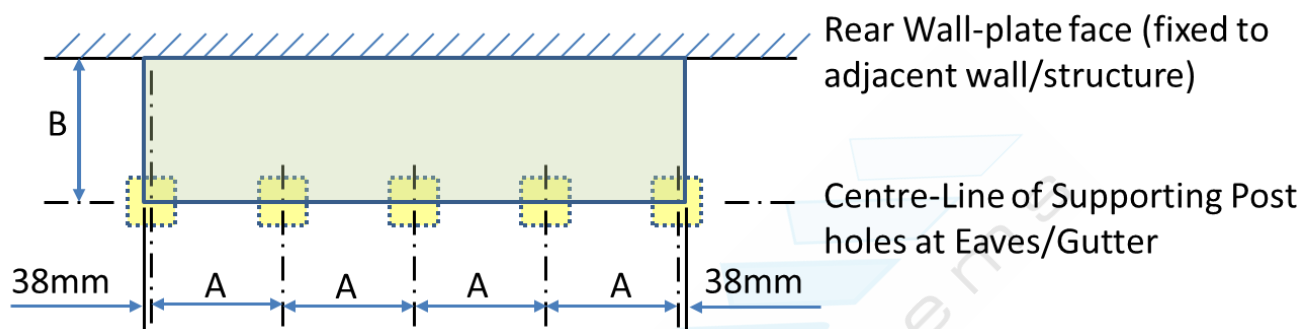
PLAN VIEW (from above canopy)



Canopy Size	Qty. Posts	Supporting Post and Foundation Hole Centres (mm)				
		Dim. A	Dim. B @ 5 Degree Roof Pitch	Dim B @ 10 Degree Roof Pitch	Dim B @ 15 Degree Roof Pitch	Dim B @ 20 Degree Roof Pitch
2.1m W x 4.0m P	2	1,950	4,032	3,987	3,911	3,806
2.8m W x 4.0m P	2	2,650	4,032	3,987	3,911	3,806
3.5m W x 4.0m P	3	1,638	4,032	3,987	3,911	3,806
4.2m W x 4.0m P	3	1,988	4,032	3,987	3,911	3,806
4.9m W x 4.0m P	3	2,338	4,032	3,987	3,911	3,806
5.6m W x 4.0m P	3	2,688	4,032	3,987	3,911	3,806
6.3m W x 4.0m P	4	2,000	4,032	3,987	3,911	3,806
7.0m W x 4.0m P	4	2,233	4,032	3,987	3,911	3,806
7.8m W x 4.0m P	4	2,500	4,032	3,987	3,911	3,806
8.4m W x 4.0m P	4	2,700	4,032	3,987	3,911	3,806
9.2m W x 4.0m P	5	2,206	4,032	3,987	3,911	3,806
9.9m W x 4.0m P	5	2,381	4,032	3,987	3,911	3,806
10.6m W x 4.0m P	5	2,556	4,032	3,987	3,911	3,806
11.4m W x 4.0m P	5	2,756	4,032	3,987	3,911	3,806
12.0m W x 4.0m P	5	2,906	4,032	3,987	3,911	3,806

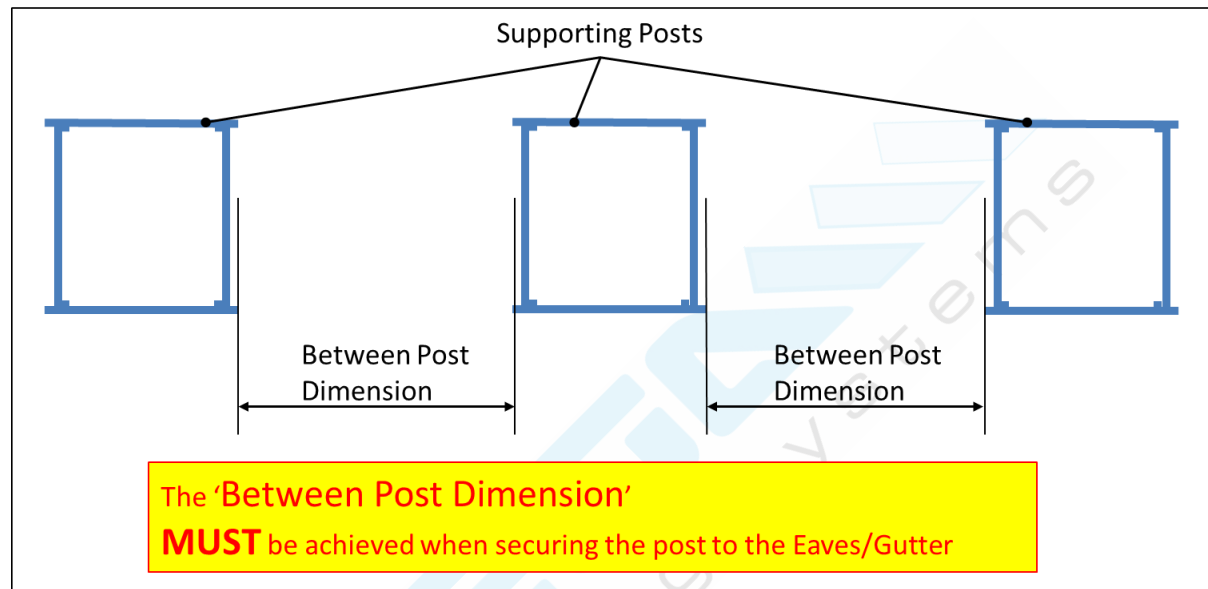
08 Setting Out Foundation Holes for Standard Range of Lean-To Canopies

PLAN VIEW (from above canopy)



Canopy Size	Qty. Posts	Supporting Post and Foundation Hole Centres (mm)				
		Dim. A	Dim. B @ 5 Degree Roof Pitch	Dim B @ 10 Degree Roof Pitch	Dim B @ 15 Degree Roof Pitch	Dim B @ 20 Degree Roof Pitch
3.1m W x 4.5m P	2	2,950	4,530	4,479	4,394	4,276
3.5m W x 4.5m P	3	1,638	4,530	4,479	4,394	4,276
4.2m W x 4.5m P	3	1,988	4,530	4,479	4,394	4,276
4.8m W x 4.5m P	3	2,288	4,530	4,479	4,394	4,276
5.2m W x 4.5m P	3	2,488	4,530	4,479	4,394	4,276
5.9m W x 4.5m P	3	2,838	4,530	4,479	4,394	4,276
6.3m W x 4.5m P	4	2,000	4,530	4,479	4,394	4,276
7.0m W x 4.5m P	4	2,233	4,530	4,479	4,394	4,276
7.4m W x 4.5m P	4	2,367	4,530	4,479	4,394	4,276
8.0m W x 4.5m P	4	2,567	4,530	4,479	4,394	4,276
8.4m W x 4.5m P	4	2,700	4,530	4,479	4,394	4,276
9.1m W x 4.5m P	5	2,181	4,530	4,479	4,394	4,276
9.6m W x 4.5m P	5	2,306	4,530	4,479	4,394	4,276
10.2m W x 4.5m P	5	2,456	4,530	4,479	4,394	4,276
10.7m W x 4.5m P	5	2,581	4,530	4,479	4,394	4,276
11.2m W x 4.5m P	5	2,706	4,530	4,479	4,394	4,276
11.9m W x 4.5m P	5	2,856	4,530	4,479	4,394	4,276
12.0m W x 4.5m P	5	2,906	4,530	4,479	4,394	4,276

09: 'Between Supporting Post' Dimensions for Standard Range of Lean-To Canopies



Canopy Size	Qty. Posts	Roof Pitch (deg)	Actual Dimensions		Between Post Dim.s (mm)
			Width(mm)	Proj.n (mm)	
2.1m W x 1.5m P	2	10	2,106	1,565	1,950
3.1m W x 1.5m P	2	10	3,106	1,565	2,950
4.2m W x 1.5m P	3	10	4,206	1,565	1,988
5.2m W x 1.5m P	3	10	5,206	1,565	2,488
6.3m W x 1.5m P	3	10	6,306	1,565	3,038
7.4m W x 1.5m P	4	10	7,406	1,565	2,367
8.4m W x 1.5m P	4	10	8,406	1,565	2,700
9.5m W x 1.5m P	5	10	9,506	1,565	2,281
10.6m W x 1.5m P	5	10	10,606	1,565	2,556
11.6m W x 1.5m P	5	10	11,606	1,565	2,806
12.0m W x 1.5m P	5	10	12,006	1,565	2,906

Canopy Size	Qty. Posts	Roof Pitch (deg)	Actual Dimensions		Between Post Dim.s (mm)
			Width(mm)	Proj.n (mm)	
2.1m W x 2.0m P	2	10	2,106	2,057	1,950
3.1m W x 2.0m P	2	10	3,106	2,057	2,950
4.2m W x 2.0m P	3	10	4,206	2,057	1,988
5.2m W x 2.0m P	3	10	5,206	2,057	2,488
6.3m W x 2.0m P	3	10	6,306	2,057	3,038
7.4m W x 2.0m P	4	10	7,406	2,057	2,367
8.4m W x 2.0m P	4	10	8,406	2,057	2,700
9.5m W x 2.0m P	5	10	9,506	2,057	2,281
10.6m W x 2.0m P	5	10	10,606	2,057	2,556
11.6m W x 2.0m P	5	10	11,606	2,057	2,806
12.0m W x 2.0m P	5	10	12,006	2,057	2,906
2.1m W x 2.5m P	2	10	2,106	2,550	1,950
3.1m W x 2.5m P	2	10	3,106	2,550	2,950
4.2m W x 2.5m P	3	10	4,206	2,550	1,988
5.2m W x 2.5m P	3	10	5,206	2,550	2,488
6.3m W x 2.5m P	3	10	6,306	2,550	3,038
7.4m W x 2.5m P	4	10	7,406	2,550	2,367
8.4m W x 2.5m P	4	10	8,406	2,550	2,700
9.5m W x 2.5m P	5	10	9,506	2,550	2,281
10.6m W x 2.5m P	5	10	10,606	2,550	2,556
11.6m W x 2.5m P	5	10	11,606	2,550	2,806
12.0m W x 2.5m P	5	10	12,006	2,550	2,906
2.1m W x 3.0m P	2	10	2,106	3,042	1,950
3.1m W x 3.0m P	2	10	3,106	3,042	2,950
4.2m W x 3.0m P	3	10	4,206	3,042	1,988
5.2m W x 3.0m P	3	10	5,206	3,042	2,488
6.3m W x 3.0m P	3	10	6,306	3,042	3,038
7.4m W x 3.0m P	4	10	7,406	3,042	2,367
8.4m W x 3.0m P	4	10	8,406	3,042	2,700
9.5m W x 3.0m P	5	10	9,506	3,042	2,281
10.6m W x 3.0m P	5	10	10,606	3,042	2,556
11.6m W x 3.0m P	5	10	11,606	3,042	2,806
12.0m W x 3.0m P	5	10	12,006	3,042	2,906

Document: Installation Guide

Guide No: 030

Description: Omega Smart+ Lean-To Canopy, 16mm structured polycarbonate

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Canopy Size	Qty. Posts	Roof Pitch (deg)	Actual Dimensions		Between Post Dim.s (mm)
			Width(mm)	Proj.n (mm)	
2.1m W x 3.5m P	2	10	2,106	3,534	1,950
2.8m W x 3.5m P	2	10	2,806	3,534	2,650
3.5m W x 3.5m P	3	10	3,506	3,534	1,638
4.2m W x 3.5m P	3	10	4,206	3,534	1,988
4.9m W x 3.5m P	3	10	4,906	3,534	2,338
5.6m W x 3.5m P	3	10	5,606	3,534	2,688
6.3m W x 3.5m P	4	10	6,306	3,534	2,000
7.0m W x 3.5m P	4	10	7,006	3,534	2,233
7.8m W x 3.5m P	4	10	7,806	3,534	2,500
8.4m W x 3.5m P	4	10	8,406	3,534	2,700
9.2m W x 3.5m P	5	10	9,206	3,534	2,206
9.9m W x 3.5m P	5	10	9,906	3,534	2,381
10.6m W x 3.5m P	5	10	10,606	3,534	2,556
11.4m W x 3.5m P	5	10	11,406	3,534	2,756
12.0m W x 3.5m P	5	10	12,006	3,534	2,906
2.1m W x 4.0m P	2	10	2,106	4,027	1,950
2.8m W x 4.0m P	2	10	2,806	4,027	2,650
3.5m W x 4.0m P	3	10	3,506	4,027	1,638
4.2m W x 4.0m P	3	10	4,206	4,027	1,988
4.9m W x 4.0m P	3	10	4,906	4,027	2,338
5.6m W x 4.0m P	3	10	5,606	4,027	2,688
6.3m W x 4.0m P	4	10	6,306	4,027	2,000
7.0m W x 4.0m P	4	10	7,006	4,027	2,233
7.8m W x 4.0m P	4	10	7,806	4,027	2,500
8.4m W x 4.0m P	4	10	8,406	4,027	2,700
9.2m W x 4.0m P	5	10	9,206	4,027	2,206
9.9m W x 4.0m P	5	10	9,906	4,027	2,381
10.6m W x 4.0m P	5	10	10,606	4,027	2,556
11.4m W x 4.0m P	5	10	11,406	4,027	2,756
12.0m W x 4.0m P	5	10	12,006	4,027	2,906

Document: Installation Guide

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Description: Omega Smart+ Lean-To Canopy, 16mm structured polycarbonate

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Canopy Size	Qty. Posts	Roof Pitch (deg)	Actual Dimensions		Between Post Dim.s (mm)
			Width(mm)	Proj.n (mm)	
3.1m W x 4.5m P	2	10	3,106	4,519	2,950
3.5m W x 4.5m P	3	10	3,506	4,519	1,638
4.2m W x 4.5m P	3	10	4,206	4,519	1,988
4.8m W x 4.5m P	3	10	4,806	4,519	2,288
5.2m W x 4.5m P	3	10	5,206	4,519	2,488
5.9m W x 4.5m P	3	10	5,906	4,519	2,838
6.3m W x 4.5m P	4	10	6,306	4,519	2,000
7.0m W x 4.5m P	4	10	7,006	4,519	2,233
7.4m W x 4.5m P	4	10	7,406	4,519	2,367
8.0m W x 4.5m P	4	10	8,006	4,519	2,567
8.4m W x 4.5m P	4	10	8,406	4,519	2,700
9.1m W x 4.5m P	5	10	9,106	4,519	2,181
9.6m W x 4.5m P	5	10	9,606	4,519	2,306
10.2m W x 4.5m P	5	10	10,206	4,519	2,456
10.7m W x 4.5m P	5	10	10,706	4,519	2,581
11.2m W x 4.5m P	5	10	11,206	4,519	2,706
11.9m W x 4.5m P	5	10	11,806	4,519	2,856
12.0m W x 4.5m P	5	10	12,006	4,519	2,906

10: Care and Maintenance

Your Omega canopy will require very little care and maintenance.

The metalwork is powder coated in polyester. This is very hard-wearing. The roof panels are formed in polycarbonate. This is 200 times stronger than glass and is highly impact resistant.

Cleaning

1. The metalwork can be cleaned with a soft cloth and soapy water.
2. The (polycarbonate) roof panels can be cleaned:
 - a. Gently wash sheet with a solution of mild soap and lukewarm water, using a soft, grid-free cloth or sponge to loosen any dirt or grime.
 - b. Fresh paint splashes, grease and smeared glazing compounds can be removed easily before drying by rubbing lightly with a soft cloth using petroleum ether (BP65), hexane or heptane. Afterwards, wash the sheet using mild soap and lukewarm water.
 - c. Scratches and minor abrasions can be minimised by using a mild automobile polish. Test on a small area of sheet before using on the entire sheet is recommended.
 - d. Finally, thoroughly rinse with clean water to remove any cleaner residue and dry the surface with a soft cloth to prevent water spotting.

Other important instructions for (polycarbonate) roof panels:

1. Never use abrasive or highly alkaline cleaner on polycarbonate materials.
2. Never use aromatic or halogenated solvents like toluene, benzene, gasoline, acetone or carbon tetrachloride on polycarbonate materials.
3. Use of in with polycarbonate sheet can cause structural and/or surface damage.
4. Contact with harsh solvents such as methyl ethyl ketone (MEK) or hydrochloric acid can result in surface degradation and possible crazing of polycarbonate sheet.
5. Never scrub with brushes, steel wool or other abrasive materials.
6. Never use squeegees, razorblades or other sharp instruments to remove deposits or spots.
7. Do not clean polycarbonate in direct sunlight or at high temperatures as this can lead to staining.
8. For all mentioned chemicals consult the manufacturers' material safety data sheets for proper safety precautions.