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| 01 E | ssential Tools: | | | |
|------|---|--|--|--|
| ltem | Tool Description | | | |
| 01 | Metal drill, dia. 3.8mm (for pilot holes for No. 8 x 16 self-tapping | | | |
| | screws) SUPPLIED | | | |
| 02 | Metal drill, dia. 4.6mm (for pilot holes for No.12 x 13 self-tapping | | | |
| | screws) – may not be required for tie-bar bracket pilot holes. | | | |
| | SUPPLIED | | | |
| 03 | Driver Bit, Phillips Head, PH2 (for driving No.8 x 16 self-tapping | | | |
| | screws) NOT Pozidriv. SUPPLIED | | | |
| 04 | Driver Bit, Phillips Head, PH3 (for driving No.12 x 13 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:

| ltem | 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). | |



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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 | |

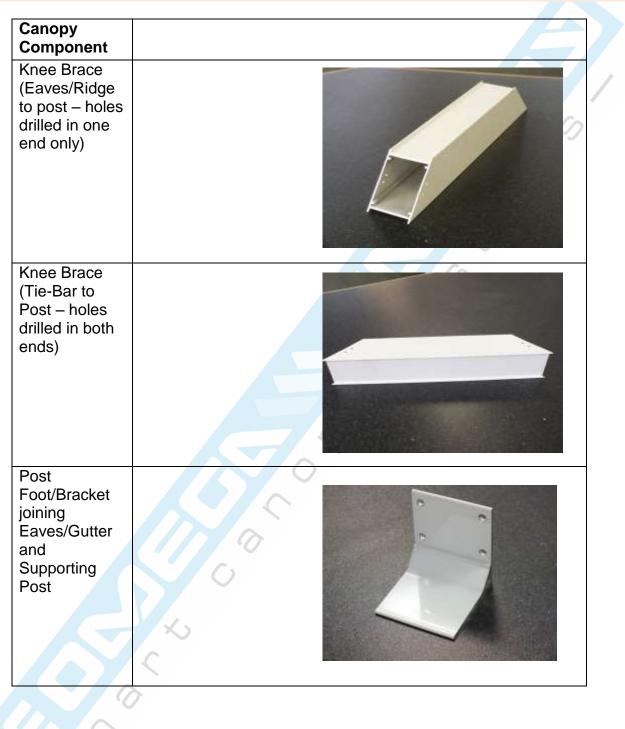


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| Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation) | |
|---|--|
| Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled showing plan location and orientation) | |
| Intermediate Supporting Post/Tie-Bar Bracket/Knee Brace Bracket Assembly. (labelled | |
| showing plan location and orientation) | |



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| 0 | |
|--|--|
| Canopy | |
| Component Ridge Assembly(Rid ge with Brush Gasket) | |
| Ridge Joint Assembly | |
| Eaves/ Gutter | |
| | |



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| Canopy Component | |
|--|---|
| Component Main Glazing Bar | |
| Sheet Closure (for Roof Panel) | |
| Roof Panel with protective film on both upper and lower surfaces | |
| | 7 |



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| 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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| 0 | |
|--------------------------------|--|
| Canopy | |
| Component | |
| Canopy Component Tie-Bar | |
| Rainwater Adaptor | |



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05 Overview of Installation Process (Main Stages):

| Stage | Stage Description |
|-------|--|
| 01 | Set out and dig holes for foundations for supporting posts (to accept 100m 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. Make hole(s) for egress of rainwater in Supporting Post(s) where this is required. (This is <u>not</u> required if Supporting Posts are <u>not</u> to be secured by burying them in a concrete foundation). |
| 02 | Assemble Eaves/Gutter Assembly – Assembling Eaves/Gutter End Plates and Supporting Post Brackets to Eaves/Gutter. |
| 03 | Assemble Ridge Assembly – Assembling Ridge End Plates and Supporting Post Brackets to Ridge Assembly. |
| | |



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| 04 | Assemble 'Goal-Post' frames (from S 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. This can be undertaken at ground level adjacent Foundation Holes | Supporting Post/Tie-Bar Bracket |
|----|---|---------------------------------|
| 05 | Install 'Goal-Post' frames onto foundation pads (with supporting post feet flat on the pad. Check levels. | |
| 06 | 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. | |
| 0 | | |



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| 07 | Fix Ridge Assembly to 'Goal-Post' frames. Secure the outside 'goal- post' frames first. | |
|----|--|---|
| | Do not tighten nuts at this stage. Check levels. | |
| 08 | 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 bar | ars or last edge glazing bar at this stage. |
| 09 | Position Main Glazing Bars – Check that the spacing between the Main Glazing Bars is correct. Mark these positions. | |
| 0 | | |



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| 10 | 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. | |
|----|--|--|
| 11 | 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. | |
| 12 | Installing Knee Braces: 1. Ridge to Supporting Posts. 2. Eaves to Supporting Posts. 3. Tie-Bars to Supporting posts. | |
| 13 | 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. | |

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06 Installation Process; Main Stages in Detail:

| Process | Description |
|----------|--|
| Step | |
| Stage 01 | Set Out Foundation Hole positions and prepare foundations |
| for Supp | orting Posts |
| 01 | 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. See Setting Out Hole Positions at end of this document. Getting the foundation pads level at this stage saves a lot of time levelling the canopy frame later. |



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| footing for Supporting Post Feet. Concrete mix should ideally be: 1 part cement : 3.5 parts sand : 2.5 parts course aggregate. |
|---|
| If using combined aggregate the mix should be: 1 part cement : 5 parts combined aggregate. |
| Do not overwater as the mix needs to start 'skinning over' as soon as possible. This can be accelerated by |
| pouring a thin layer of cement onto the concrete footing once it has been levelled. Level the footing using a |
| Cement Finishing Trowel. |
| It is highly recommended that the concrete pads are made to be level with each other. This will save a huge amount of time later when levelling the canopy frame components. Therefore. It is worth getting this right. |
| One of the simplest ways of doing this is that once you have a pad whose depth you are happy with and is one that you will work from this is to use a hose pipe and fill it with water. Hold the hosepipe at a known height above the 'datum' pad. |
| Insert a stake in your next foundation hole and mark off the water level point on the stake. |
| You can then pour your concrete for this pad until the pad height is the same dimension from the stake mark as the known height above the 'datum' pad. |
| There are other ways of getting your concrete pads level with each other. This is probably the simplest using readily available kit. |
| |
| $\langle \cdot \rangle$ |
| |
| |



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6

| ge 0 | 2: Assemble Eaves/Gutter Assemblies. |
|------|--|
| | |
| 03 | Assembling the Eaves/Gutter assembly: |
| | This step is only required if the canopy requires (2) Eaves/Gutters to be joined together. |
| | The aim of this process step is to align the (2) Eaves/Gutters with each other. |
| | This work is most easily undertaken with the components resting on trestles. |
| | Insert Joining Plate into joining plate slots on one of the wall-plates. 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 eaiser. |
| | Use a White Rubber Mallet to tap in the Joining Plate into the joining plate slots to half its length. |
| | 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. |



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| Fit End-Plate to each end of Eaves/Gutter. Again, undertake this activity whilst the Eav the Trestles. | res/Gutter is located on |
|--|---|
| Apply silicone sealant to the end profile of the If the end of the Eaves/Gutter is uneven been coating it is sensible to file the end profile so Metal File to provide a good surface for the | cause of the powder- quare and flat with a |
| | |
| Secure End-Plate to the end of the Eaves/G (4) Self-Tapping Screws into the (4) screw p Eaves/Gutter. | |
| | |
| The (4) holes in the Eaves/Gutter End Plate screw ports in the Eaves/Gutter. When all (4) screws have been secured app | • • • • • |
| sealant to the End Plate – Eaves/Gutter join Eaves/Gutter. You may want to 'smooth down' this bead o ensure that the silicone seals all along the E join. | on the inside of the of silicone sealant to |



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| 05 | Assembling the Eaves/Gutter assembly: |
|----|--|
| | |
| | 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. |
| | |



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| 06 | Assembling the Eaves/Gutter assembly: | |
|----|--|--|
| | Assembling the Eaves/Gutter assembly. 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. 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. | |
| | 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). | |
| | 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. (This can be a little fiddly!) | |



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| 07 | |
|----|--|
| 07 | Assembling Ridge (<i>This step is only required if there are (2) Ridge Assemblies</i> <i>supplied (as with wider canopies)</i> This work is best undertaken on a large flat area with both Ridge |
| | assemblies located in line. |
| | The aim of this process step is to assemble one complete ridge from the (2) ridge assemblies supplied. |
| | You will need: 1. Driver with PH2 driver bit 2. Soft White Mallet. |
| | |
| | Assembly steps: 1. Rest both Ridge Assemblies in line with flat face downwards. |
| | 2. At this stage insert the joining plates (47mm x 350mm) into the slots in the ridge assemblies |
| | (one into each joining plate slot). The joining plate to ridge assembly joining |
| | plate slots can be tight and will require patience and a soft |
| | white mallet. Slide the (2) Ridge Assemblies together |
| | The joint should be visible as one line with no gaps. |
| 9 | Present the Ridge Joint Assembly into its location. The Ridge Joint Assembly fits into (2) slots in the Ridge Assembly profile. |

evenly, either side of the Ridge Assembly joint line.



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| 07 | 4. The Ridge Joint Assembly is secured to the (2) Ridge Assemblies with No.8 x 25mm Self-Tapping Screws driven through the pre-drilled holes in the Ridge Joint Assembly into the flat sections in the Ridge Assemblies. |
|----|--|
| | Using the dia. 3.8mm drill-bit supplied drill the pilot holes for the self-tapping screws using the pre-drilled holes in the Ridge Joint Assembly in the Ridge Assemblies. IT IS IMPORTANT that during this drilling operation both Ridge Assemblies remain tightly 'butted-up' to each other. |
| | Secure the Ridge Joint Assembly to the (2) Ridge assemblies by driving the No.8 x 25mm Self-Tapping Screws through the pre-drilled holes in the Ridge Joint Assembly into Ridge Assemblies. All pre-drilled holes must be used. |
| | 6. Set the assembled Ridge to one side. |



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| 08 | Assembling Post Supporting Brackets to Ridge Assembly |
|----|--|
| | Install Supporting Post Brackets into the Ridge Assembly. This should be undertaken whilst the Ridge Assembly is still located on the Trestles. The aim here is to secure one bracket in position for each Supporting Post. 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 Ridge Assembly. |
| | 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 Ridge Assembly and mark these positions before securing these single Brackets in position on the Ridge Assembly. (It is sometimes necessary to use a 'Quick Clamp' to push the Ridge assembly together to enable the bolts to be located into the bracket holes). The Brackets that are required for the intermediate Supporting Posts can be loosely secured so that they move freely along the Ridge Assembly. (This allows the Supporting Posts to be easily fitted to the Ridge Assembly and Brackets when this process step is undertaken). The Brackets are secured via the M6 Set Screws located in the Set Screw channels. Locate the Bracket in the Ridge Assembly so that each of the (4) Set Screws is located through the (4) drill |
| 5 | holes in the Bracket. (This can be a little fiddly!) |

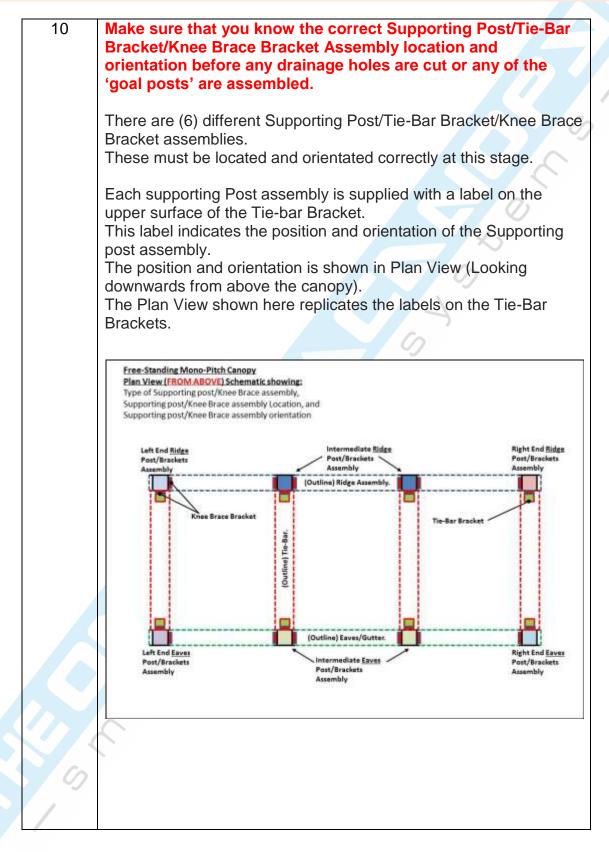


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| | : Assemble 'Goal-Post frames (from Supporting Post/Tie-Bar Knee Brace Bracket assemblies and Tie-Bars) |
|----|---|
| | |
| 09 | Fit the Supporting Post/Tie-Bar Bracket Assemblies with the Supporting Post Feet. At this stage make sure that you are happy with the length of the Supporting Post assemblies as it is still possible to change the supporting Post/Tie-Bar Bracket assembly lengths. This is driven by the need to ensure that the Tie-Bar Brackets are level in both width and projection directions 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. |



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| 11 | Secure the Post Foot to the Supporting Post. 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. When drilling the Pilot Hole, dot apply undue downward pressure as this will potentially break the drill. As you will be drilling several Pilot Holes you will get used to the appropriate pressure to apply. Secure the Post Foot in position using the Phillips Head Self-Tapping Screws using the PH2 Driver Bit. 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. You will need a medium-to-high torque setting on your Drill/Driver in combination with applying pressure on the self-tapping screw. Again, this will be a technique that you will get used to and learn the correct settings that work for your installation. |
|----|--|
| 12 | Repeat Process Steps 10 – 11 for the other foot for the same Supporting Post. |
| 13 | Repeat Process Steps 10 -12 for each Supporting Post. |
| 0 | |



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| 14 | 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. |
| | |
| | |
| | |

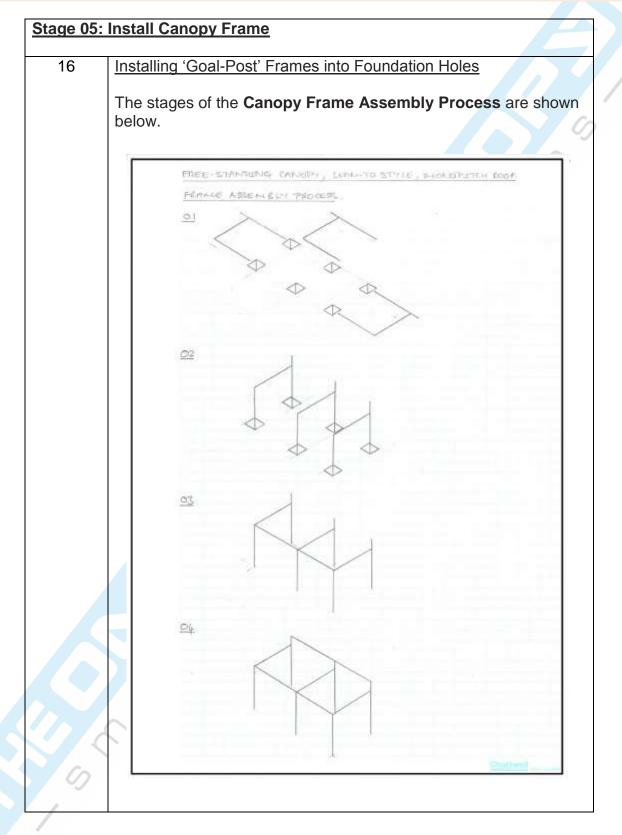


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| Fix Tie-Bar to Supporting Post/Tie-Bar Bracket assemblies to form 'goal-post frames. At this stage make sure that you are happy with the length of the Supporting Post assemblies as it is still possible to change the supporting Post/Tie-Bar Bracket assembly lengths. Any Supporting Post/Tie-Bar Bracket assembly to adjust the support of the table at the support on the support on the support of the table at the table. This is best achieved with the Tie-Bar resting on treatles at waist height. The next operation may not be required as the pilot holes are pre-drilled in the tie-bar brackets in the factory. The Tie-Bar is supplied with (4) pilot holes in the Tie-Bar Bracket (using a marker pen or soft-lead pencil). Drill did a 4.5mm pilot holes in Tie-Bar Brackets. These operations are a little awkward because of the length of the components involved. Fix the Tie-Bar to the Supporting PostTie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar is de of the Tie-Bar. Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
|---|--------|--|
| the Supporting Post assemblies as it is still possible to change the supporting Post/Tie-Bar Bracket assembly lengths. Any Supporting Post length changes after this stage will probably involve 'Goal-Post' dis-assembly to adjust the supporting Post/Tie-Bar Bracket assembly length. This is best achieved with the Tie-Bar resting on trestles at waist height. The next operation may not be required as the pilot holes are pre-drilled in the tie-bar brackets in the factory. The Tie-Bar is supplied with (4) pilot holes pre-drilled in each end. Use these to mark the positions for the pilot holes in the Tie-Bar Bracket (using a marker pen or soft-lead pencil). Drill dia 4.5mm pilot holes in Tie-Bar Brackets. These operations are a little awkward because of the length of the components involved. Fix the Tie-Bar to the Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit. Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | 15 | 'goal-post' frames. |
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| The Tie-Bar is supplied with (4) pilot holes pre-drilled in each end. Use these to mark the positions for the pilot holes in the Tie-Bar Bracket (using a marker pen or soft-lead pencil). Drill dia 4.5mm pilot holes in Tie-Bar Brackets. These operations are a little awkward because of the length of the components involved.Fix the Tie-Bar to the Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit.Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Use these to mark the positions for the pilot holes in the Tie-Bar Bracket (using a marker pen or soft-lead pencil). Drill dia 4.5mm pilot holes in Tie-Bar Brackets. These operations are a little awkward because of the length of the components involved. Fix the Tie-Bar to the Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit. Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Bracket (using a marker pen or soft-lead pencil). Drill dia 4.5mm pilot holes in Tie-Bar Brackets. These operations are a little awkward because of the length of the components involved.Fix the Tie-Bar to the Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit.Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames.Fix the Tie-Office Content of the tie-Bar. Content of the tie-Bar.Repeat for all 'Goal-Post' frames.Fix the content of the cont | | |
| These operations are a little awkward because of the length of the components involved.Fix the Tie-Bar to the Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using | | |
| components involved. Fix the Tie-Bar to the Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit. Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Fix the Tie-Bar to the Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit.Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit. | | components involved. |
| Supporting Post/Tie-Bar Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit. | | Fix the Tie-Bar to the |
| Bracket Assemblies by driving the No.12 x 13 Self-Tapping screws through the Tie-Bar into the Tie-Bar bracket using the Drill Driver and PH3 Driver Bit.Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Bit. Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Repeat this process for the other side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| side of the Tie-Bar. Repeat for all 'Goal-Post' frames. | | |
| Repeat for all 'Goal-Post' frames. | | |
| | | |
| | | Repeat for all 'Goal-Post' frames. |
| | | |
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| 17 | Installing 'Goal-Post' Frames into Foundation Holes |
|----|--|
| | Present the 'Goal- Post' Frames to the foundation holes. |
| | You are aiming at stage 02 of the Canopy Frame Assembly Process. |
| | This is a (2) person job and requires that the supporting posts are vertical (in both directions) and the Tie-Bar brackets on the supporting posts are horizontal is horizontal. |
| | Judicious use of packers may help with minor adjustments to achieve level Tie-Bar Brackets. |
| | When you are happy that the 'Goal-Post' Frames are vertical and level the frames will sit on their feet and can be propped in position if required. |



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| 19 | Installing the Ridge assembly onto Posts. | The Ridge side Supporting |
|----|---|---------------------------|
| | Present the Ridge Assembly to the Ridge side Supporting Posts. | |
| | Rest the Ridge in its final position on the Ridge side posts and check the Ridge is level. | |
| | Secure the Ridge assembly in position via the Supporting Post Brackets. | * |
| | | |
| 20 | Secure all joints/components with | the requisite fixings. |
| | | |
| 6 | | |

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| Secure <u>all</u> Supporting Post Feet to Foundation Pads. |
|--|
| Cut Drainage holes using Hole saw in base of gutter. Ensure that the hole cut is over the Supporting Posts that are acting as down- pipes. Cut Out Rainwater Drainage Hole in Eaves/Gutter. Use 1 51mm diameter HoleSaw and the Drill/Driver to cut the hole required in the Eaves/Gutter. You will need to be above the Eaves/Gutter. You will need to be above the Eaves/Gutter to do this. Therefore you will need to use a secure and stable Stepladder. Make sure that the centre of the hole to be cut is immediately central to the Supporting Post (located below the Eaves/Gutter). Please note that in this picture the Eaves/Gutter end-Plate has |
| been removed to show the HoleSaw position. Prepare and fit Rainwater adaptor. If necessary trim the flange of the Rainwater Adaptor so that it will sit flat on the bottom of the Eaves/Gutter. Apply bead of silicone to the lower surface of the flange of the Rainwater Adaptor. Insert Rainwater Adaptor into the hole cut with the 51mm dia. Hole saw. Ensure that the flange sits flat on the bottom of the Eaves/Gutter all around the Rainwater Adaptor. 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. |
| |

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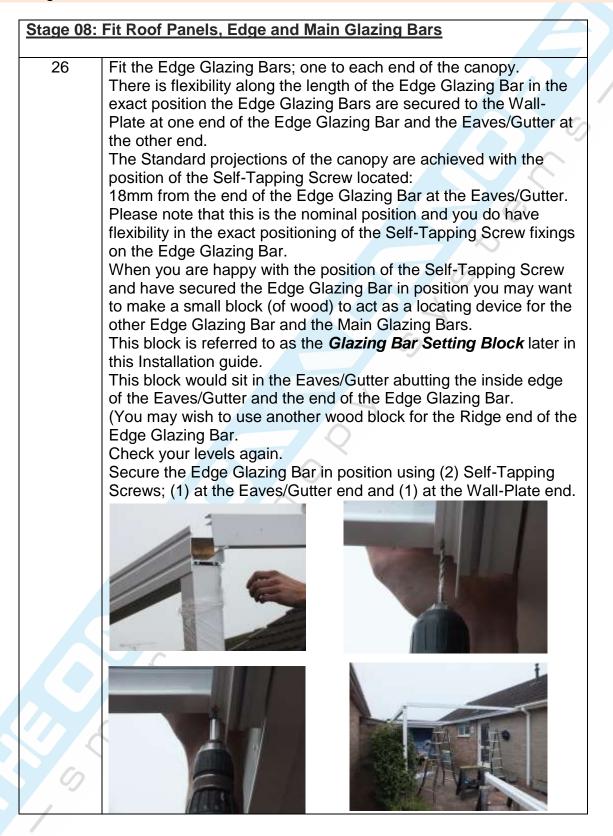


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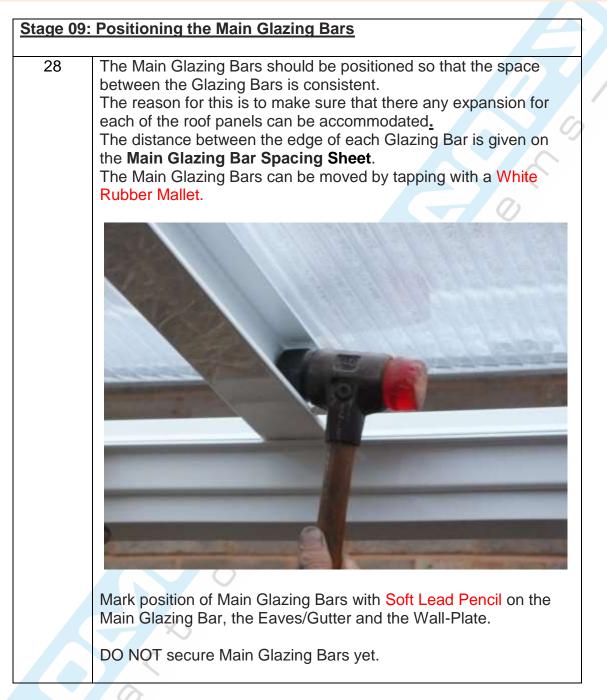
| 27 | Starting at one end of the canopy. Remove the protective file from the periphery of both sides of the polycarbonate panels. Make sure that the panel is in the correct orientation: Top side of panel facing upwards (this will be the side of the panel with the protective film with the writing on it). 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 27) at the end of the Main Glazing Bar so that the Main Glazing bar is in position and aligned with the Edge Glazing Bar. | |
| | At this point the Roof Panels and the Main Glazing Bars are NOT to be fixed in position. | |
| | Repeat this process, alternatively fitting Roof Panels and Main Glazing Bars until the last Roof Panel is to be fitted. | |
| | This Main Glazing Bar must be positioned before securing with the Self-Tapping Screws. The spacing between the Glazing Bars is given in the Main Glazing Bar Spacing Sheet (attached to the end of these instructions). | |
| 0 | When the correct position for this Main Glazing Bar is achieved (this may require some 'tapping' with the White Rubber Mallet as described in the next Stage (Stage 07), secure with Self-Tapping Screws at the Wall-Plate and Eaves Gutter. This will require (4) Self-Tapping Screws; (2) at the Wall-Plate end of the Main Glazing Bar and (2) at the Eaves/Gutter end of the Main Glazing Bar. | |



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|----|--|--|--|
| | Fitting the last Roof Panel. | | |
| | Undo the Self-Tapping Screw that is fixing the Edge Glazing Bar to | | |
| | the Eaves/Gutter. | | |
| | Move the Edge Glazing Bar outwards from the canopy (rotating | | |
| | around the Edge Bar fixing to the Wall-Plate. | | |
| | Slide in the last Wall-Plate into the pockets in the Glazing Bars at | | |
| | the Wall-Plate end of the Roof Panel. | | |
| | Bring the Edge Glazing Bar back into position, sliding the roof | | |
| | panel into the pockets of the Glazing Bars as the Edge Glazing Bar | | |
| | is brought back into position. | | |
| | Re-secure the Edge Glazing Bar. | | |



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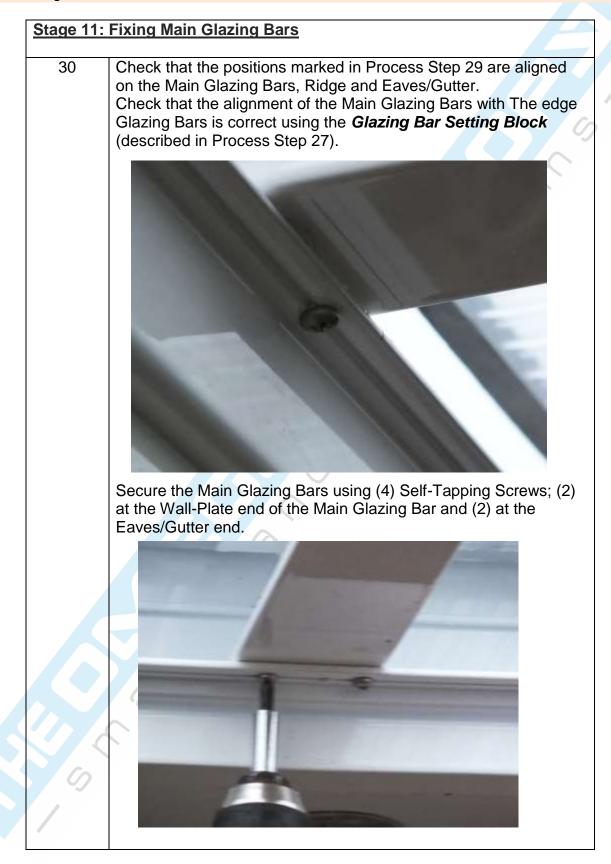
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| 31 | Installing the Knee Braces between Eaves to Supporting Posts |
|----|--|
| | and Ridge to Supporting Posts. The assembly process here is the same for securing all Knee Braces in position. Locate the Knee brace in position: Ensure that the knee brace sits within the (2) flange profiles on the Eaves/Gutter and also sits over the |
| | <text></text> |
| | Securing Knee Brace: 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. |
| 6 | 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. |
| 1 | 3. Repeat these (2) steps on the other side of the Knee Brace. |



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|---|---|-----------------------------------|
| | Drill remaining (2) pilo holes in the Eaves/Gutter. | t |
| | 5. Drive remaining (4 self-tapping screw | |
| | Repeat the entire proces for all Knee Braces at th Eaves. | es e |
| | Repeat the process for a Braces | all Ridge to Supporting Post Knee |



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| 32 | Installing the Knee Braces between Tie-Bars and Supporting Posts. |
|----|---|
| | These Knee Braces are supplied with pre-drilled pilot holes at both ends of the Knee Brace. These pilot holes are located so that when in the correct position the pilot holes overlay the Knee Brace Brackets on the Tie-Bar and the supporting Post. The stage in the process that requires a degree of patience is locating the Knee Brace so that it is located over both brackets and also sits flush with the face of the Tie-bar and the Supporting post face. |
| | Securing the Knee Brace: |
| | 1. Locate one end of the Knee Brace over the bracket on the Tie-Bar. |
| | 2. Push the Knee Brace 'upto' the inside edge of the bracket on the Tie-Bar. |
| | 3. Rotate the Knee Brace toward the Supporting Post using the Bracket on the Tie-Bar as the pivot point. |
| | 4. Locate the Knee Brace over the bracket at the Supporting Post. |
| | 5. Adjust the Knee Brace so that the faces of the Knee Brace in contact with the Tie-Bar and the Supporting Post are flush. |
| | |



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|-----|--|
| | 6. Drill through one of the Knee Brace Pilot holes through the bracket on the supporting Post. 7. Secure the Knee Brace in position by driving (1) Self-Tapping screw through one of the predrilled holes in the Knee Brace into the Knee Brace bracket. 8. Next drill a pilot hole through one of the Knee Brace pilot holes into the bracket on the Tie-Bar and secure by driving a self-tapping screw into this pilot hole in the Knee Brace. |
| | 9. Repeat these (2) steps on the other side of the Knee Brace. 10. Drill through all remaining pilot holes. 11. Drive remaining (4) selftapping screws home. Repeat this process for all Knee braces between Tie-Bars and Supporting Posts. |
| | |



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| Main G | ilazing Bar S | pacing | | | | | | | | | | |
|-------------------------|---|----------------------|----------------------------|----------------|------|------------------------|-----|-----------------------------------|--------------------------------------|---|---|---|
| Canopy Width (mm) | Ridge and Eaves/Gutter width (mm) | Qty. of Edge Bars | Qty. of Glazing Bars | Qty. Panels | | Panel width (mm) | | Edge bar base width (mm) | Glazing Bar base width (mm) | Space to be allowed between each glazing bar (mm) | 0 | Dimension from same edge to same edge, glazing bar to glazing bar (mm) |
| 3,106 | 3,100 | 2 | 2 | 3 | | 1022 | | 35 | 60 | 970 | | 1030 |
| 4,200 | 4,200 | 2 | 3 | 4 | | 1039 | | 35 | 60 | 987 | | 1047 |
| 5,200 | 5,200 | 2 | 4 | 5 | | 1030 | | 35 | 60 | 978 | | 1038 |
| 6,300 | 6,300 | 2 | 5 | 6 | | 1040 | | 35 | 60 | 988 | | 1048 |
| 7,400 | 7,400 | 2 | 6 | 7 | | 1048 | | 35 | 60 | 995 | | 1055 |
| | | | | | | | | | \cap | | | |
| 3,506 | 3,500 | 2 | 4 | 5 | | 690 | | 35 | 60 | 638 | | 698 |
| 4,206 | 4,200 | 2 | 5 | 6 | | 690 | | 35 | 60 | 638 | | 698 |
| 4,906 | 4,900 | 2 | 6 | 7 | | 690 | | 35 | 60 | 638 | | 698 |
| 5,606 | 5,600 | 2 | 7 | 8 | | 690 | | 35 | 60 | 638 | | 698 |
| 6,306 | 6,300 | 2 | 8 | 9 | | 690 | | 35 | 60 | 638 | | 698 |
| 7,006 | 7,000 | 2 | 9 | 10 | | 690 | | 35 | 60 | 639 | | 699 |
| 7,806 | 7,800 | 2 | 10 | 11 | | 700 | | 35 | 60 | 648 | | 708 |
| 8,406 | 8,400 | 2 | 11 | 12 | | 690 | | 35 | 60 | 639 | | 699 |
| | | | | | | Q | | | | | | |
| | | | (Also |) Length | of S | heet Clo | sur | es (mm) | | | | |



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| Setting Out Foundation Holes | | | | | | | | | |
|------------------------------|---------------|---------------------|------------------|--|--|--|--|--|--|
| A | | A | | | | | | | |
| | | | | | | | | | |
| | _ | | Ridge Row | | | | | | |
| T | | | | | | | | | |
| В | | | | | | | | | |
| | | | | | | | | | |
| <u> </u> | |)(⁽ⁱ⁾) | Eaves Row | | | | | | |
| | i i | J Lund | | | | | | | |
| Canopy | Dimension A | Dimension B | Qty. of | | | | | | |
| Dimensions | (Supporting | (Supporting | Foundation Holes | | | | | | |
| | Post Centres) | Post centres) | \Box | | | | | | |
| 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 | | | | | | |

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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. <u>Fresh</u> 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.