

STORMKING®

**GRP BUILT OFF-SITE.
SAVE TIME ON-SITE.**

INSTALLATION GUIDES

GRP Entrance Door Canopies



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To ensure optimum performance please follow the correct fitting procedures outlined in this installation guide.

Site safety and good building practice should be adhered to at all times.

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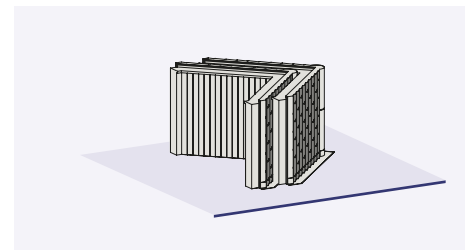
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Technical helpline:

01827 311100

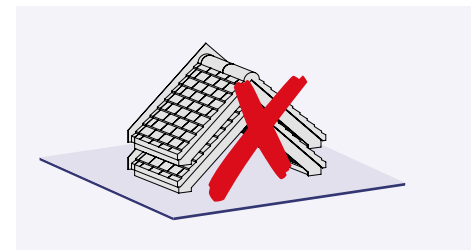
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Storage and Handling



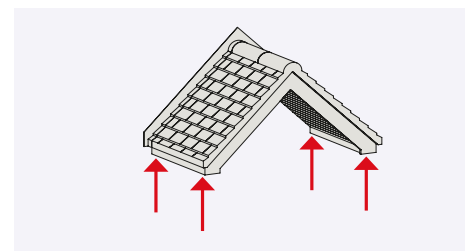
MUST BE STORED FLAT

Use timber bearers to provide support for all GRP elements.



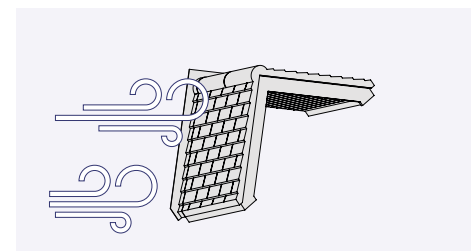
DO NOT STACK

GRP elements must not be stacked or have heavy weights placed on top.



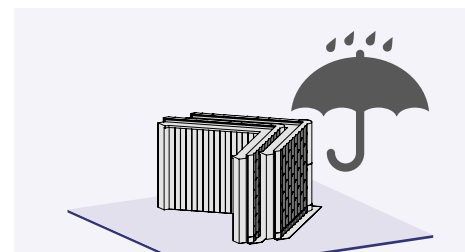
LIFTING INTO POSITION

GRP elements must be evenly supported on each side when lifting on to brackets.



PROTECT FROM WIND

Lightweight items should be secured to prevent from wind damage on site.



PROTECT FROM SOAKING

GRP should be stored in dry conditions. Don't store in direct sunlight when packaging is wet. Avoid soaking.



SITE SAFETY

Please observe all Site Safety guidelines and observe safe working loads when lifting mechanically.

Clearlight



Position template central to the opening and the desired height. Using the centre of the 3 holes drill hole for fixing. Fix one side of template to wall, level up and repeat for other side of template.



Using a 10mm bit, drill holes to suit StormFix 80 Fixings using the 4 remaining pre-drilled holes as guides. Once all 4 holes have been drilled, unscrew and remove template.



Loosely secure poles to wall in pre-drilled holes, with StormFix 80 Fixing provided. Place plastic end caps to support poles. Lay cross bars onto support poles with vertical section of bar facing front.



Place the plain bottom glass spacers and rubber washer seals onto each of the pole studs.



Place the polycarbonate sheet onto the glass spacers with the pole studs passing through the pre-drilled holes in the sheet. Remove the film from the underside of the polycarbonate sheet.



Place remaining threaded glass clamps and rubber washer seals on top of polycarbonate sheet. Remove the film from the top of the polycarbonate sheet. Working from the centre outwards loosely tighten the glass clamps onto the pole studs. Fully tighten the pole fixings and then all the glass clamps.

Note: Packer may be required to ensure level fitting

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GRP Flat Contemporary-Internal Fix



With canopy base in the desired position use a 10mm drill bit, drill through the rear structural timber rail into wall structure at a maximum of 450mm centres, to suit the StormFix 120 Fixing. The centre hole of the MS steel brackets can be used if appropriate.



Insert StormFix Blue Frame Fixing sleeve 120 into the drilled holes. Once the StormFix Blue Fixing Sleeves have been inserted into the holes, fully screw the StormFix 120 fixings into the sleeves.

Note: Packers may be required to ensure level fitting in both direction



The roof unit is positioned onto the base unit. Using a 10mm drill bit, drill through the GRP upstand into wall structure at a maximum of 450mm centres, to suit the StormFix 80 Fixing.



Insert StormFix Blue Frame Fixing sleeve 80 into the drilled holes.



Once the StormFix Blue Fixing Sleeves have been inserted into the holes, fully screw the StormFix 80 fixings into the sleeves.

Note: Fixings to be tightened from centre outwards



GRP Roof downstand to be fixed to GRP base using fir tree fixings as supplied. The upstand must be over flashed in lead or mastic sealed.

Note: Fixings to be push-fitted from centre outwards

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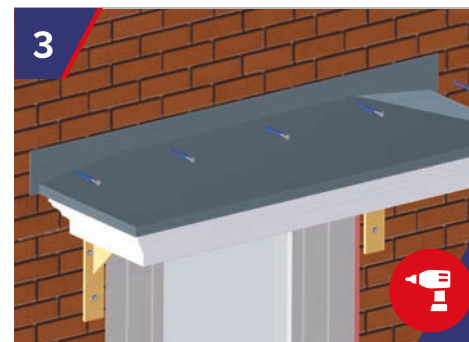
GRP Flat Top with Brackets



GRP Kneeler supplied with a timber insert. Position Timber Inserts ensuring correct position in relation to the canopy and they are level. Using 10mm drill bit drill through the insert and wall structure to take the StormFix 120 fixing two per insert. Secure the inserts back to the structure. Gallows Brackets are to be fitted following the same method.



The canopy is placed onto the bracket inserts. Using 10mm drill bit, drill through the GRP upstand and into the wall structure at a maximum of 450mm centres, to suit StormFix 80 fixings.



Insert StormFix 80 into the drilled holes. Ensure the canopy is level and maintains a fall to the front.



Once the StormFix fixing sleeves have been fully inserted into the holes, fully screw the StormFix 80 screw into the sleeves. Screws & sleeves to be concealed using the caps supplied loose with the fixings.



Kneeler Brackets inserts are fixed to the canopy soffit in two places on each bracket using wood screws (not supplied). Gallows Brackets to be secured to the soffit following the same method. Please note the Gallows / Kneelers are only supporting the soffit of the canopy and shouldn't be used as the main support



GRP Kneeler to cloak the timber insert and to be either bonded into position or screw fixed from the side into the timber insert. Canopy GRP upstand must be over flashed in lead or mastic sealed back to the structure.

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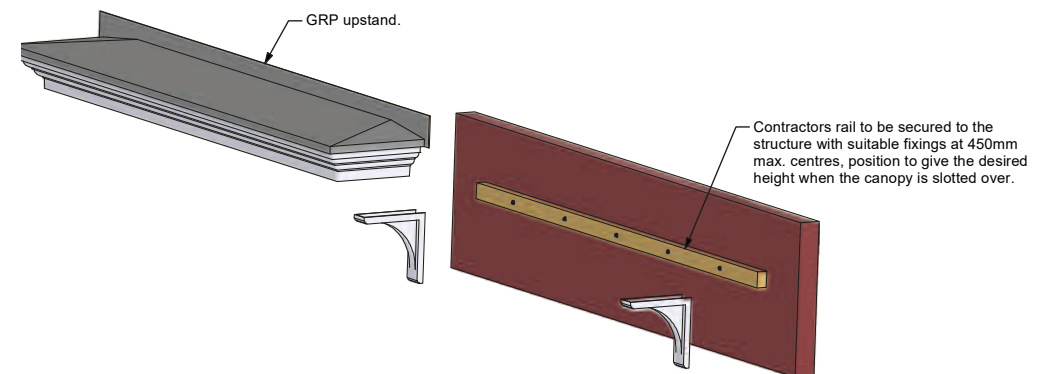
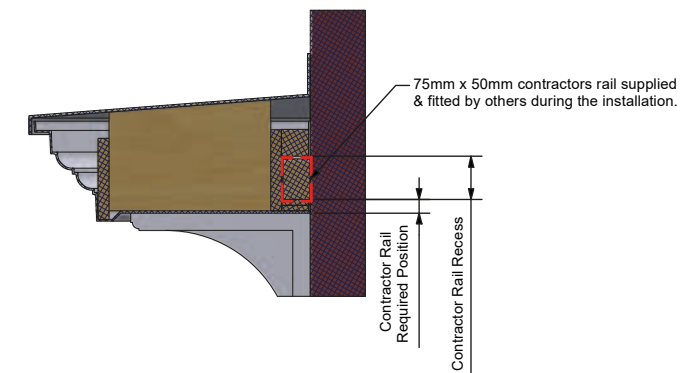
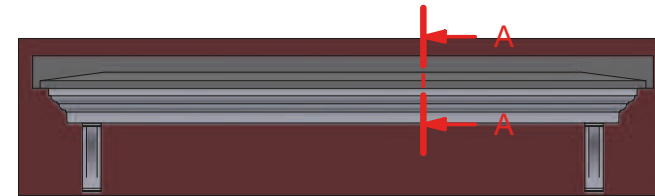
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Additional information for GRP Flat Top Canopy with brackets-

Above 2m in width require counter batten

1. Decide on the position of the Canopy Soffit, mark and secure the bracket timber inserts at the desired widths and to the marks made. Use Stormfix fixings or equivalent ensuring all insets are level to each other.
2. Measure the distance of the contractor rail recess from the GRP soffit plus 2mm clearance.
3. Position the rail using the measurement from step 2 to ensure its at the correct height. Fix the contractors rail to the structure through the rail using suitable fixings. The rail will require counter sinking / boring to allow the fixings to sit flush to the face of the rail.
4. Position the canopy over the rail and prop level, fix the canopy back to the structure through the GRP upstand at 450mm max. centres using the Stormfix fixings or equivalent, working from the centre out and ensuring the canopy is level. The rear of the canopy may need packing out to get the soffit level.
5. Screw fix through the GRP soffit into the contractors rail at 300mm centres to help support the soffit. Screw fix through the bracket inserts to the canopy soffit.
6. The GRP Brackets can then be either screw fixed to the timber frames from the side or bonded into position using suitable adhesive.



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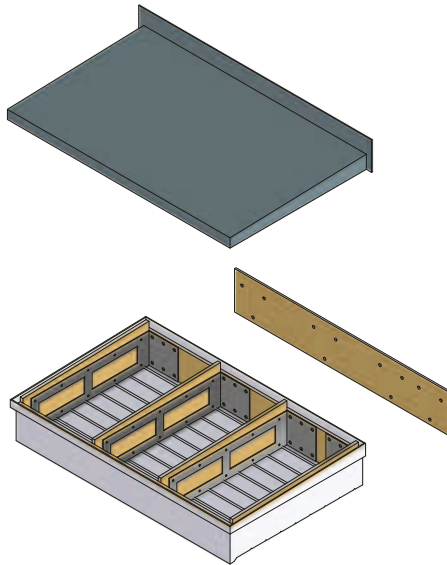
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GRP Deep Fascia - Internal Fix

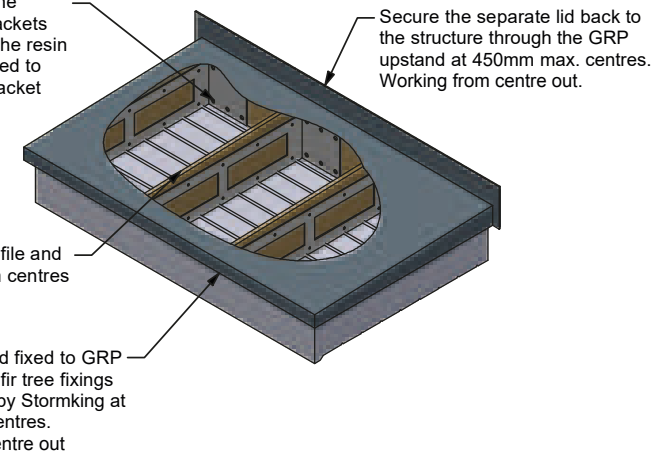
G900- 1400mm (Soffit Projection) Self-supporting Flat Canopies

1. Temporarily plug and screw the template supplied into the desired position. The base of the template is equivalent to the soffit of the canopy. (Template supplied screw fixed to the rear of the base)
2. Use the holes in the template to drill 16mm diameter holes into the structure to a depth to suit the resin sleeves supplied
3. Remove the template and clean all holes of loose material using the brush supplied within the fixing pack or by other means.
4. Insert resin sleeves ensuring the rim is flush with the structure.
5. Insert resin into sleeves as per manufacturers instructions and close sleeve cap
6. Insert studs into sleeves and "wriggle about" to get a positive fix with resin. Ensure the studs go full depth of sleeve and are perpendicular to the wall.
7. Ensure the resin product is installed as per manufacturers recommendations.
8. LEAVE OVERNIGHT
9. Slide canopy onto studs and secure using nuts and washers supplied
10. Ensure canopy is level by adding packers as necessary to "level out" the structure behind.
11. Place a bead of adhesive to top of support baffles
12. Place roof unit onto base and secure to base using fir tree fixings supplied through down-stand drip to roof.



13. Bolt up-stand of roof as per standard arrangements
14. Flash with lead over up-stand or seal with mastic seal
15. Seal base to wall as necessary with mastic seal.
16. For any additional information contact Stormking.

Secure the separate base back to the structure using the internal steel brackets supplied & fitted by Stormking and the resin anchor bolts and template screw fixed to the rear of the base 3 fixings per bracket as directed by the template.



Note:

The canopies supplied are designed to be self-supporting and, though the canopy has been designed to accept necessary loads, we do not accept responsibility for the suitability of the structure to which the canopy is fitted to accept such loads. Therefore

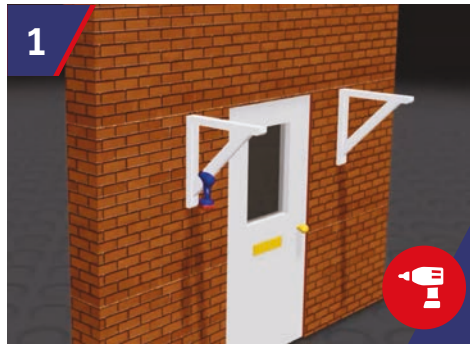
- These fixing instructions are issued to suit the standard fixing arrangement as recommended by Stormking Plastics. All resin type fixing supplied to be installed in strict accordance to manufacturer's instructions.
- It is the customer's responsibility to ensure the fixings recommended by Stormking are suitable for the structure the canopy is to be fitted to. It is also the responsibility of the customer to ensure that the structure to which the canopy is fitted is able to take the loadings (any dead and live loads) to be transmitted to it, particularly at fixing points, once the canopy is fitted.

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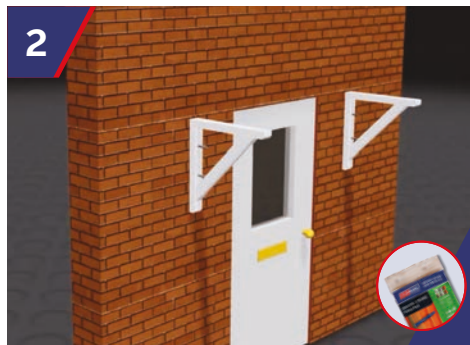
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GRP Apex Trussed



The Gallow's Brackets are fixed into the wall in two places ensuring the gallow's are level. Using a 10mm drill bit, drill into wall structure, to suit the StormFix 120 Fixing. Insert StormFixBlue Frame Fixing Sleeve 120 into the drilled holes.

Note: Pre drill gallow's brackets and use as template.



Once the StormFix Blue Frame Fixing Sleeves have been inserted into the holes, fully screw the StormFix 120 fixings into the sleeves. Conceal fixings using the bolt caps to cover the screws and plugs.



The canopy is placed on the brackets. Using a 10mm drill bit, drill through the rear structural timber truss into wall structure at a maximum of 450mm centres, to suit the StormFix 120 Fixing.



Once the StormFix Blue Fixing Sleeves have been inserted into the holes, fully screw the StormFix 120 fixings into the sleeves.



Insert StormFix Blue Frame Fixing sleeve 120 into the drilled holes.



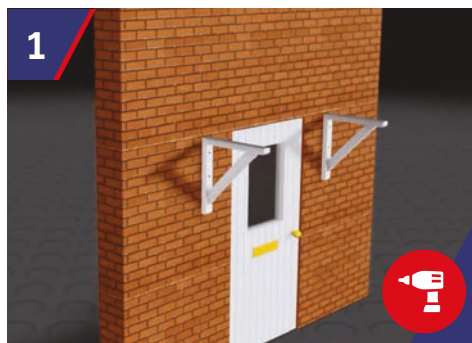
The Gallow's Brackets are fixed to the canopy soffit in two places on each bracket. The Gallow's Brackets are NOT to be used as the main structural support for the canopy. **All tiling battens should be secured to all support trusses including the back truss against the structure.** The roofs can be traditionally tiled to tile manufacturer's recommendations.

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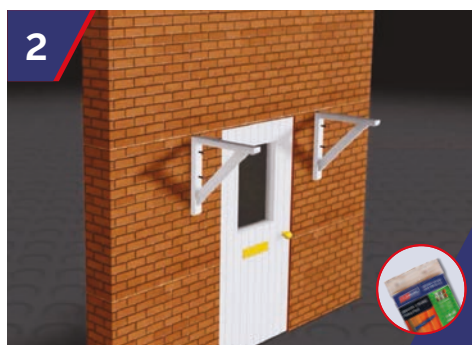
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Apex GRP Tiled



The Gallow's Brackets are fixed into the wall in two places ensuring the gallow's are level. Using a 10mm drill bit, drill into wall structure, to suit the StormFix 120 Fixing. Insert StormFix Blue Frame Fixing Sleeve 120 into the drilled holes.

Note: Pre drill gallow's brackets and use as template.



Once the StormFix Blue Frame Fixing Sleeves have been inserted into the holes, fully screw the StormFix 120 fixings into the sleeves. Conceal fixings using the bolt caps to cover the screws and plugs.



The canopy is placed on the brackets. Using a 10mm drill bit, drill through the GRP Upstand into wall structure at a maximum of 450mm centres, to suit the StormFix 80 Fixing.



Once the StormFix Blue Fixing Sleeves have been inserted into the holes, fully screw the StormFix 80 fixings into the sleeves.



Insert StormFix Blue Frame Fixing sleeve 80 into the drilled holes.



The Gallow's Brackets are fixed to the canopy soffit in two places on each bracket. **The Gallow's Brackets are NOT to be used as the main structural support for the canopy.** The upstand must be over flashed in lead or mastic sealed.

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GRP Lean-to Trussed



The Gallow's Brackets are fixed into the wall in two places ensuring the gallow's are level. Using a 10mm drill bit, drill into wall structure, to suit the StormFix 120 Fitting. Insert StormFix Blue Frame Fitting Sleeve 120 into the drilled holes.

Note: Pre drill gallow's brackets and use as template.



Once the StormFix Blue Frame Fitting Sleeves have been inserted into the holes, fully screw the StormFix 120 fixings into the sleeves. Conceal fixings using the bolt caps to cover the screws and plugs.



The canopy is placed on the brackets. Using a 10mm drill bit, drill through the rear structural timber truss into wall structure at a maximum of 450mm centres, to suit the StormFix 120 Fitting. Top and bottom rail running canopy length to be fixed back.



Insert StormFix Blue Frame Fitting sleeve 120 into the drilled holes.



Once the StormFix Blue Fitting Sleeves have been inserted into the holes, fully screw the StormFix 120 fixings into the sleeves.



The Gallow's Brackets are fixed to the canopy soffit in two places on each bracket. **The Gallow's Brackets are NOT to be used as the main structural support for the canopy.** All tiling battens should be secured to all support trusses. The roofs can be traditionally tiled to tile manufacturer's recommendations.

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GRP Lean To GRP Tile Effect



The Gallow's Brackets are fixed into the wall in two places ensuring the gallow's are level. Using a 10mm drill bit, drill into wall structure, to suit the StormFix 120 Fixing. Insert StormFix Blue Frame Fixing Sleeve 120 into the drilled holes.

Note: Pre drill gallow's brackets and use as template.



Once the StormFix Blue Frame Fixing Sleeves have been inserted into the holes, fully screw the StormFix 120 fixings into the sleeves. Conceal fixings using the bolt caps to cover the screws and plugs.



The canopy is placed on the brackets. Using a 10mm drill bit, drill through the GRP Upstand into wall structure at a maximum of 450mm centres, to suit the StormFix 80 Fixing.



Once the StormFix Blue Fixing Sleeves have been inserted into the holes, fully screw the StormFix 80 fixings into the sleeves.



Insert StormFix Blue Frame Fixing sleeve 80 into the drilled holes.



The Gallow's Brackets are fixed to the canopy soffit in two places on each bracket. **The Gallow's Brackets are NOT to be used as the main structural support for the canopy.** The upstand must be over flashed in lead or mastic sealed.

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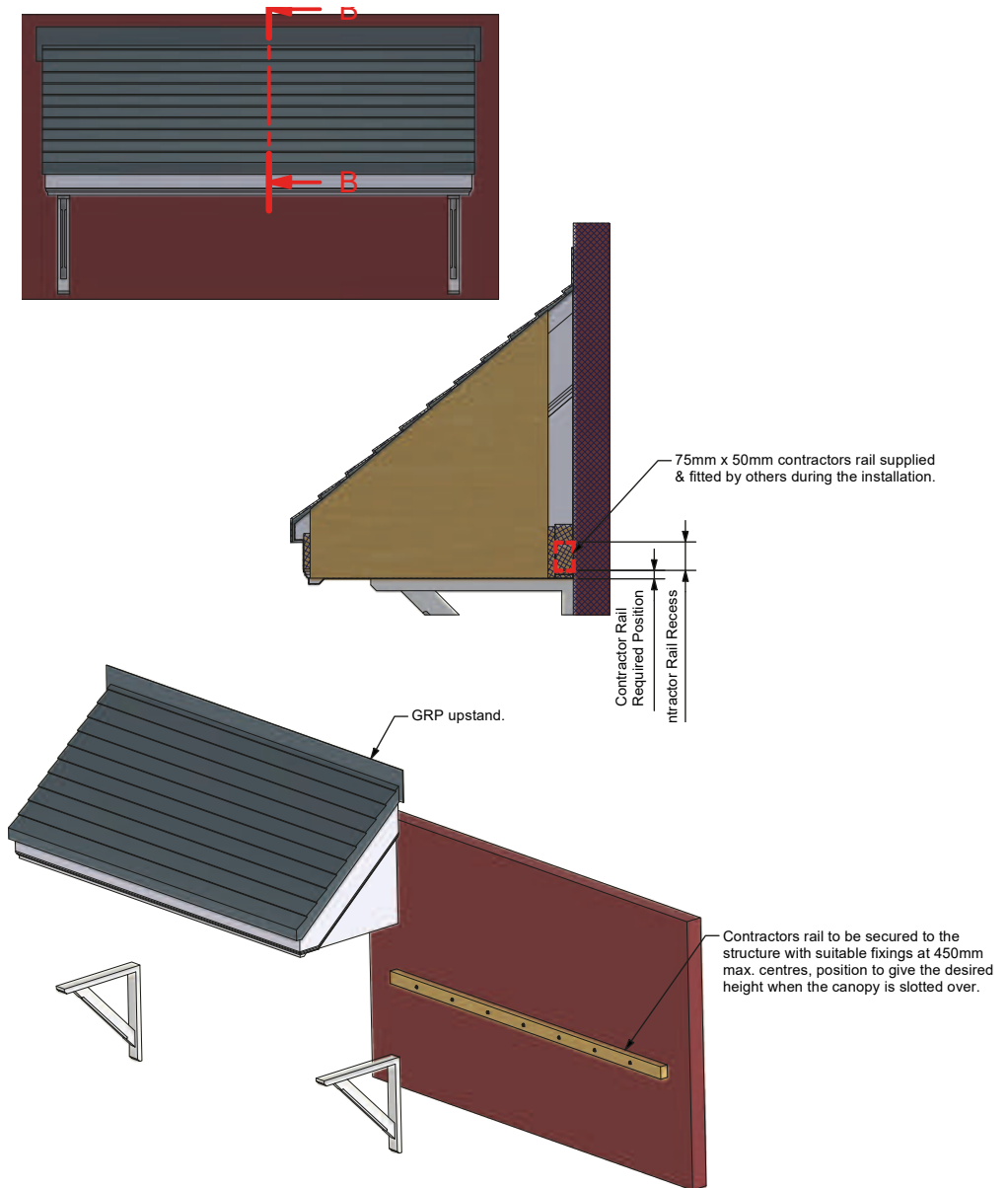
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Additional information for GRP Lean-to Canopy-Tile effect

Above 2.4m in width require counter batten

1. Decide on the position of the Canopy Soffit, mark and secure the gallows brackets at the desired widths and to the marks made. Use Stormfix fixings or equivalent ensuring all brackets are level to each other.
2. Measure the distance of the counter batten recess from the GRP soffit plus 2mm clearance.
3. Position the rail using the measurement from step 2 to ensure its at the correct height. Fix the contractors rail to the structure through the rail using suitable fixings. The rail will require counter sinking / boring to allow the fixings to sit flush to the face of the rail.
4. Position the canopy over the rail and prop level, fix the canopy back to the structure through the GRP upstand at 450mm max. centres using the Stormfix fixings or equivalent, working from the centre out and ensuring the canopy is level. The rear of the canopy may need packing out to get the soffit level.
5. Screw fix through the GRP soffit into the contractors rail at 300mm centres to help support the soffit.
6. The Gallow Brackets can then be screw fixed to canopy soffit in two places.

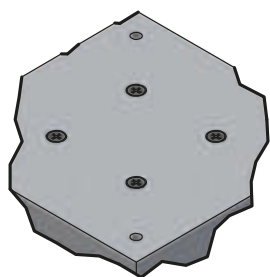


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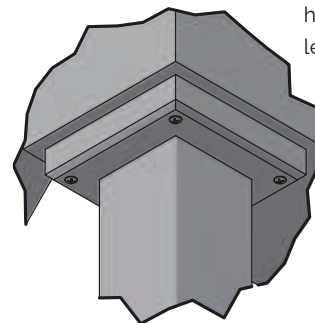
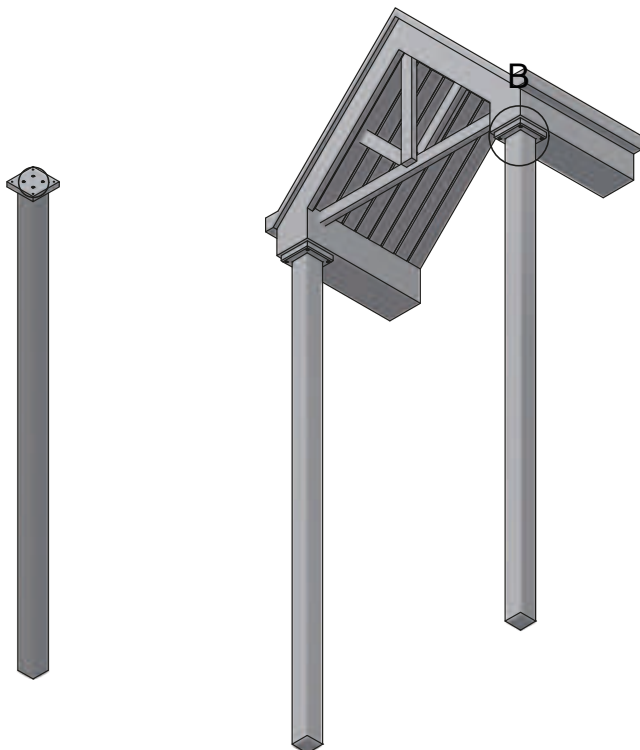
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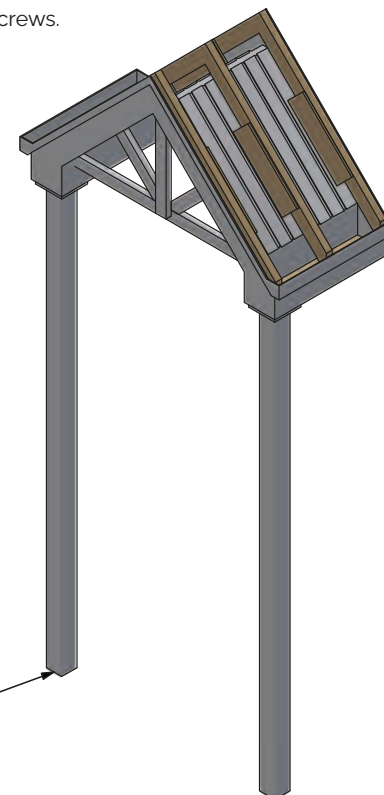
Posts



Firstly attach the post plate to the top of the post through the central post plate holes using 5mm x 50mm (min length) wood screws.



Secondly attach the post plate to the underside of the canopy through the outer post plate holes using 5mm x 50mm (min length) wood screws.



Bottom of the post to be fixed to the ground / structure using suitable post base / shoe to suit the installation and the Stormking post being used.

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