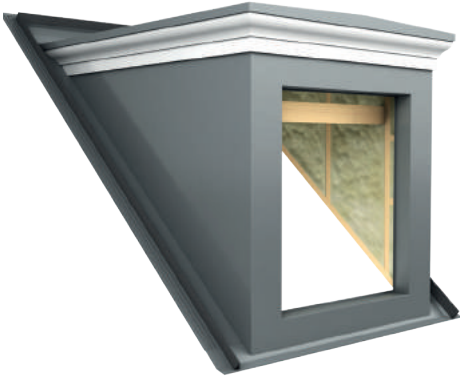


Installation Guide

GRP Dormer



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

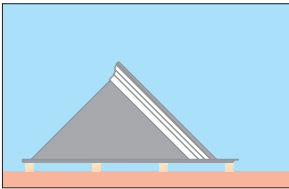
Site safety and good building practice should be adhered to at all times.



Scan the QR code to view our installation video

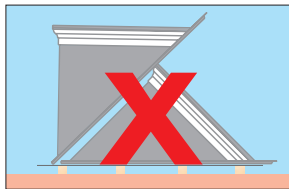


STORAGE & HANDLING



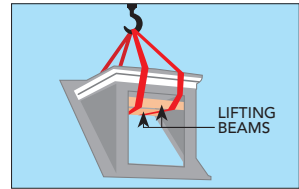
MUST BE STORED FLAT

Use timber bearers to provide support for all GRP elements.



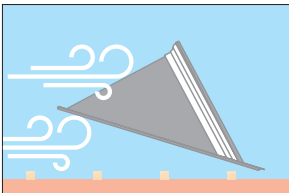
DO NOT STACK

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



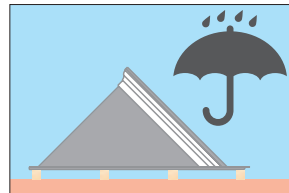
LIFTING INTO POSITION

GRP elements must be lifted using only the sacrificial lifting beams. Ensure lifting slings or telehandler forks pass under both beams.



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. Avoid soaking or storing in very wet conditions.

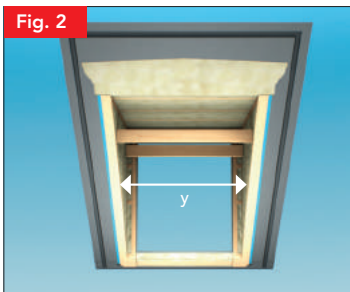
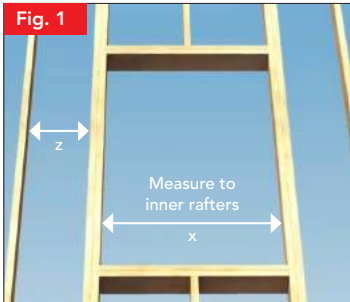
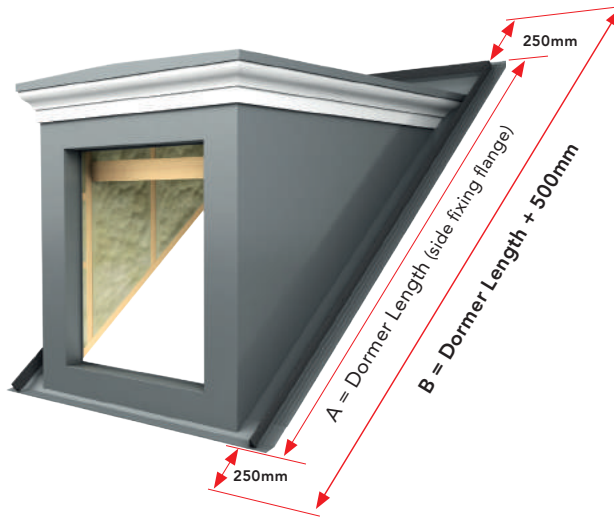


Please observe all Site Safety guidelines and observe safe working loads when lifting mechanically.

IMPORTANT: Before you start

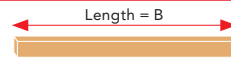
Check the size of structural roof opening (x) against the inner frame dimensions (y) of GRP dormer.

See figures 1 and 2 below.

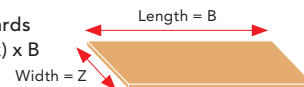


Materials Required

- 4 No Seat Battens (38mm x 25mm x B)



- 2 No Fixing Support Boards (no less than 12mm thick) x B



- Qty Stainless Steel Screws (38mm & 50mm)



Measure the GRP dormer side fixing flange (A).
Cut 2No fixing support boards and 4No battens to size (B).
(Size B = A + 500mm).

Recommended Fixings

Seat Battens

50mm long No10 stainless wood screws

Fixing Support Board

38mm long No10 stainless wood screws

Galvanised fixing plate

50mm long No10 stainless wood screws

Through tiling batten to GRP side flange

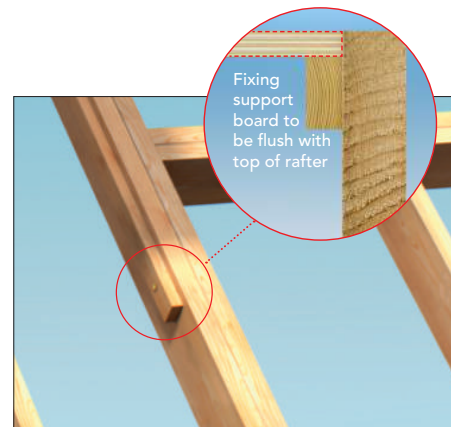
50mm long No10 stainless wood screws

1 Fixing Support Board



- 1.1** Fix 2No battens to the inside face of double support rafter and adjacent rafter, so both battens are facing each other.

Recommended fixings:
50mm long No10 Stainless Screws at 300mm ctrs



- 1.2** Ensure to position battens low enough to allow fixing support board to lay flush with top of rafter when installed.



- 1.3** Secure fixing support board between the rafters with stainless screws at 300mm centres securing into each batten.

Recommended fixings:
38mm long No10 Stainless Screws at 300mm ctrs

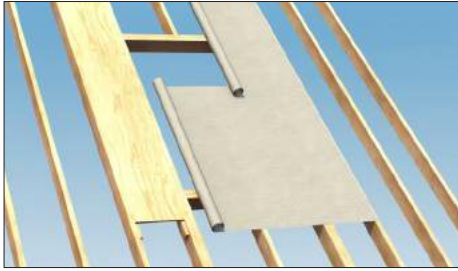


- 1.4** Check to ensure the top of support board and top of double support rafter are flush.

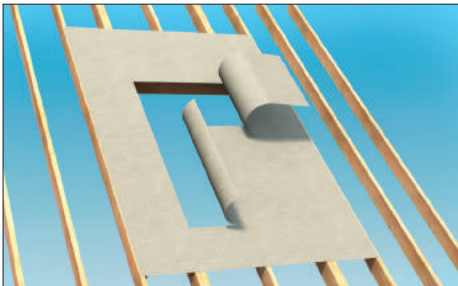
! Site Safety

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

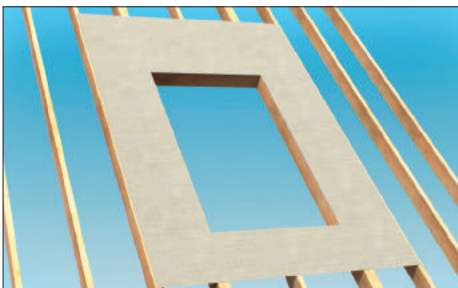
2 Roof Membrane - base layer



2.1 Install a base layer membrane over fixing support boards and secure as recommended.



2.2 Trim the base layer to reveal opening.

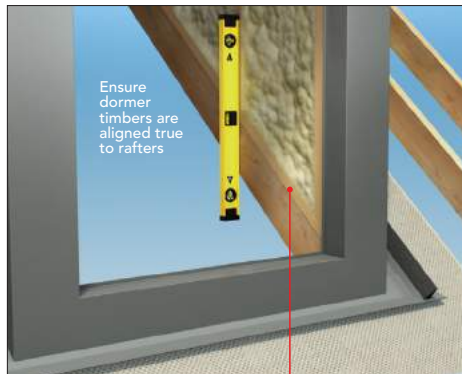


2.3 Structural opening is now fully prepared for dormer installation.

3 Positioning the Dormer

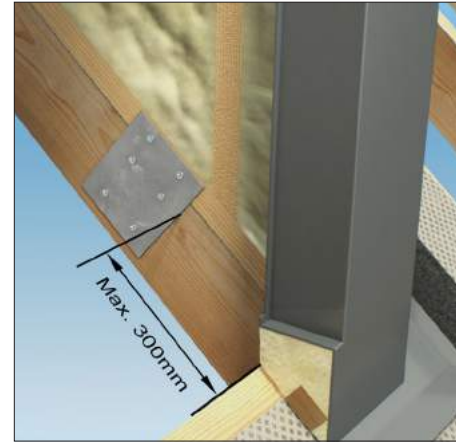


3.1 The dormer may now be lifted into position using slings or forks. **Ensure dormer weight is carried on both sacrificial lifting beams.** Where slings are used they must pass through window opening and out rear of dormer as shown.



3.2 Position the dormer ensuring its inside wall is vertically aligned with the inside face of dormer support rafter. **(counter batten if necessary)**

4 Fixing



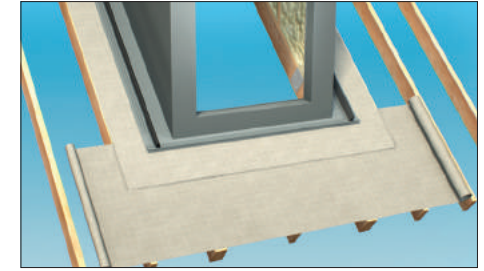
4.1 Fix dormer in place using metal fixing plates (supplied). Minimum of 6No screws used on each plate. **2 plates must be used on each side.** Plates must be installed a maximum of 300mm from front and rear of the dormer.

Recommended fixings:
50mm long No10 Stainless Screws

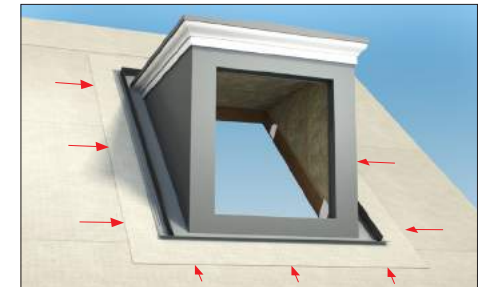


4.2 Only when dormer is fully secured sacrificial lifting beams can be removed with standard wood saw.

5 Main Roof Membrane



5.1 Fit main roof membrane around the dormer ensuring that it is **LAPPED UNDER** the base membrane.

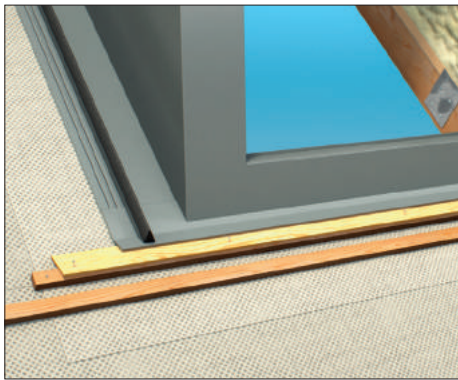


5.2 Lap an additional membrane under roof membrane and lay **ON TOP** of rear GRP fixing flange. This will channel any moisture into the GRP gutter.

6 Primary Batten Installation



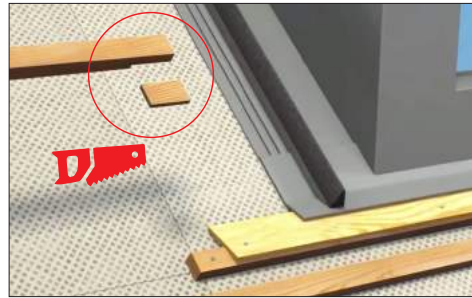
- 6.1** Before battens are secured 1 No tiling batten must be fixed at front of dormer. This should be installed with a min 75mm to max 150mm below the GRP front edge flange.



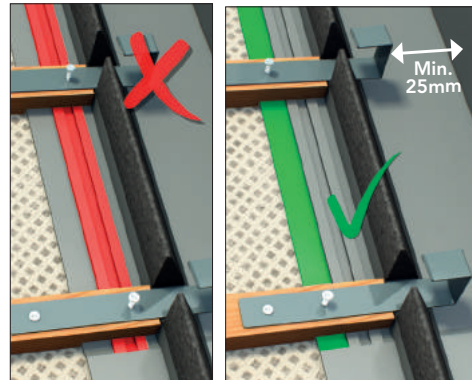
- 6.2** A batten and flashing support seat are now fixed in place under the bottom flange of the dormer. This provides support for lead flashing apron. It is important to ensure that this supports the lead sufficiently to prevent ponding.

Recommended fixings:
38mm long No10 Stainless wood screws

7 Tiling Batten Installation



- 7.1** Where tiling battens meet GRP fixing flange, batten ends must be notched to ensure the batten sits flat and does not kick up.



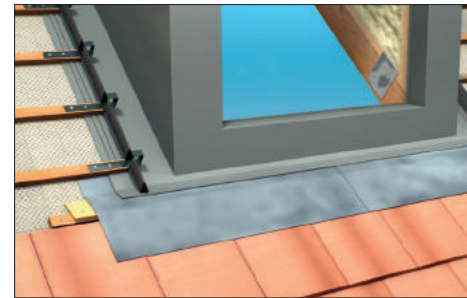
- 7.2** Ensure batten fixings do not penetrate the secret gutter of the GRP fixing flange. When installing tiles including verge fixing clips, particular care must be taken to ensure a min 25mm gap remains between the tiles and GRP side cheek.

Recommended fixings:
50mm long No10 Stainless Screws

8 Final Flashing



- 8.1** A lead flashing is now fixed in place as shown (unless the lead was factory fitted). Tile the roof as normal.



- 8.2** Dress the lead down over the tiles ensuring no ponding can occur.



- 8.3** Complete the tiling process as normal.



Elements

IG Elements

Mount Pleasant Works
2 Occupation Lane,
Woodville, Swadlincote
DE11 8GB

T: 01283 552205

F: 01283 831103

FOR TECHNICAL ADVICE CALL

01283 552205

igelements.com

Email: technical@igelements.com

