



FREEFOAM INSTALLATION GUIDE

GUIDE

2022

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Fitting and Installation Guide

 **Freefoam**
Building Products



Installation Guide

Preparation

Plan all roofline installation procedures, system components and installation sequence before onsite fitting begins.

Ensure all work is carried out in accordance with good construction practice and complies with relevant Building Regulations.

Access

Never attempt to access the work area with an unsupported ladder or without a stable deck.

Always use a full scaffold platform or a purpose built cantilevered deck system with guard rails.

Storage and Handling

Load and unload by hand and support both ends of a 5m length when handling. Stack no higher than 1m, in pack sleeve on a flat base. Avoid contact with solvents, paint, creosote, bitumen etc. Coloured products should not be stored in direct sunlight, as heat distortion may occur.

Cutting

Use conventional carpentry tools. Run power tools at speeds appropriate for timber. Nail and screw holes do not require pre-drilling.

Asbestos

By law all asbestos materials must be removed by trained operatives under strictly controlled conditions. If you suspect asbestos is present consult your Local Authority before proceeding.

Working Temperatures

Avoid installation in temperatures greater than 30°C or less than 0°C.

Fixing Guidelines

Fixing	Board	Max Centres
N50	Capping Over: FW, FO & FLP	White 600mm Black 300mm Woodgrain and other colours 400mm
N65	Full Replacement: FMS, FMXS, FMO, FMD, FMR, FMF, FMXD	
P40	Soffit	
P30	Soffit	
CP30	Hollow Soffit	

New Build/Full Replacement

Freefoam manufacture a range of Magnum boards for use in full replacement or new build work which require no backing board. The boards are self-supporting and should be fixed with Plastops colour co-ordinated nails.

Freefoam Rainwater system can be fitted directly to Magnum boards without the need for timber support.

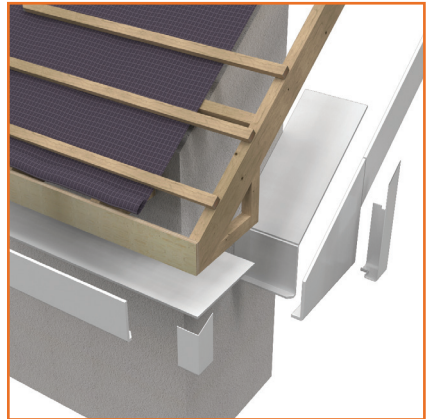
If fascia used is less than 15mm then 18mm WBP plywood backing boards should be used.

Capping Over

Freefoam manufacture 9mm and 10mm Plain, Ogee and Square Edge Fascia designed for capping over existing fascia and bargeboard that are in sound condition, or for use with a backing board in refurbishment work.

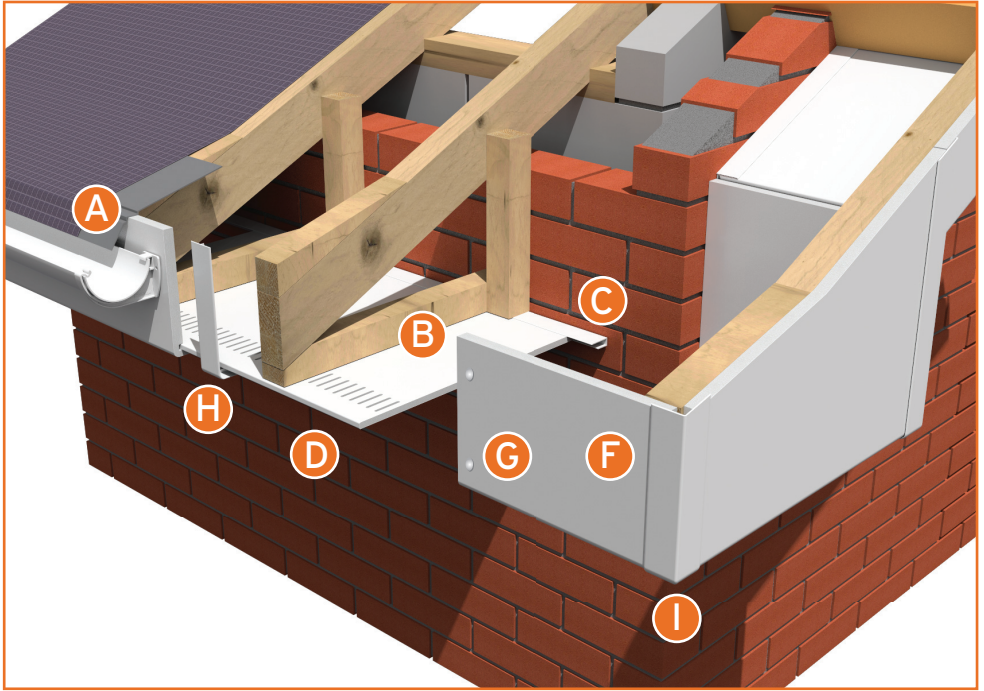
Available in a wide choice of colours with complete range of matching trims and accessories for a neat finish.

FO Ogee Fascia (10mm)
FW Plain Fascia (10mm)



Standard over fascia installation

Roofline Installation



Ventilation

Freefoam supply a range of roofline ventilation products. Ask your stockist for details. Adequate ventilation of the roof space through eaves, in terms of minimum statutory air path dimensions for various roof configurations in new build constructions, is a specified requirement.

Set out in British Building Regulations 2010: Approved Document F (England & Wales), as well as in its Scottish, Irish and Northern Ireland equivalents.

Order of work

- A** Cut back and replace damaged or worn felt, eaves can be made watertight using an eaves protector.

Use string lines to ensure rafter feet are aligned, If necessary use packing to align rafter feet.

- B** Install soffit bearers using timber battens spanned from rafter feet to the wall. Ensure that they are aligned and level.

Installation of Soffit

- C** If using a F107 'J' Trim fix this at each soffit bearer before soffit is fixed.

- D** Fix soffit boards to bearers using appropriate fixing pins. Soffit should extend 5mm beyond rafter if magnum fascia is used.

If fixing hollow soffit with joints perpendicular to fascia boards then supporting bearers will need to occur at each joint.

- E** If necessary boards can be joined at the ends using a F106 H/Joiner. Allow for 6mm extension gap at each end (12mm gap if joining two boards).

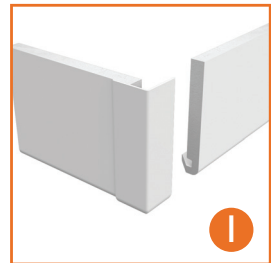
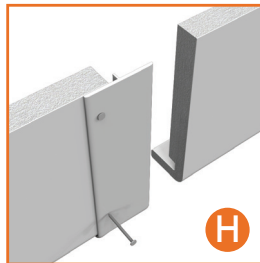
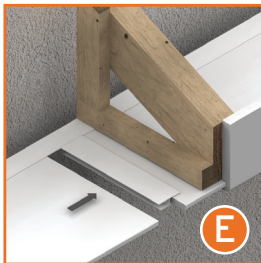
Installation of Fascia

- F** When determining fascia size ensure height is sufficient to provide tile kick. Allow for over fascia vents if being used.

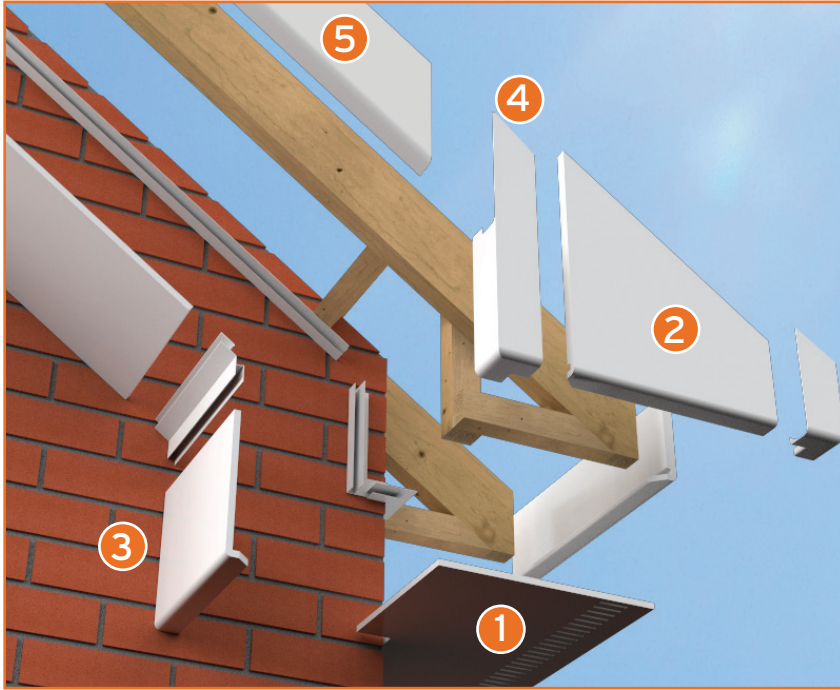
- G** Fix Magnum Fascia Board with two N65 Plastops at each rafter end and non Magnum boards (less than 15mm) using two N50 Plastops at each rafter end.

- H** Join lengths of fascia between rafter positions using appropriate matching joiners ensuring 6mm expansion gap is provided at the end of each board.

- I** Use matching corner for internal and external corners. Allow for 6mm extension gap at each end (12mm gap if joining two boards).



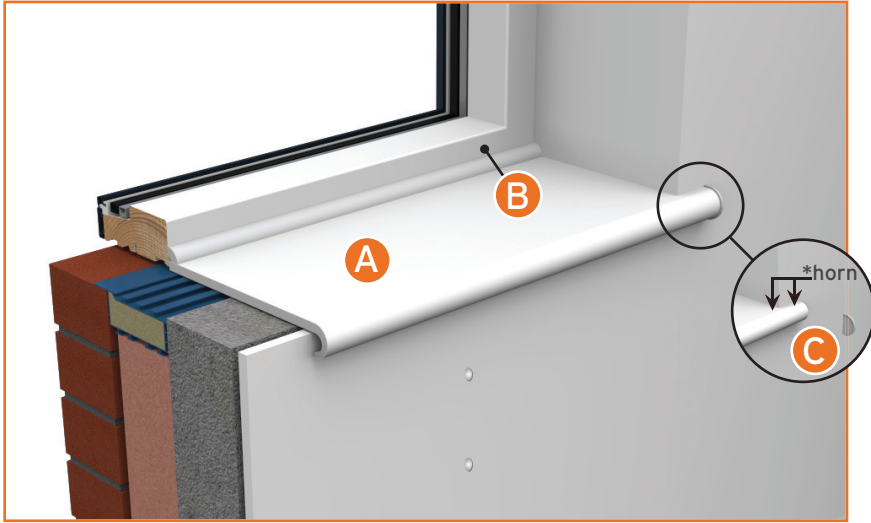
Box End



- 1 Finish Fascia level with the face of the rafter gable. Soffit should over hang by 10mm and may be cut square or mitred.
- 2 Measure and cut fascia to form the return to gable wall using appropriate Double Ended Fascia Board, measure and cut box end to suit.
- 3 Measure and cut fascia to form the return to gable wall.
- 4 Remove section from corner joint to fit around rafter.
- 5 Fix fascia as bargeboard directly to gable rafter.

Note: Timber hangers should be installed as required to locate box end structure.

Window Boards and Trims



Preparation

Ensure substrate is clean and dry and is suitably sound to retain the window boards. If rotting or loose timber is present this should be replaced.

Installation

Ensure substrate is level and at the required height to meet the window at the required location. If necessary use packing to level the substrate or to raise the level.

Cut window **A** board to required depth and length. Note: allow extra length if horns* are required and trim board accordingly.

Fix board to substrate using a suitable general-purpose adhesive.

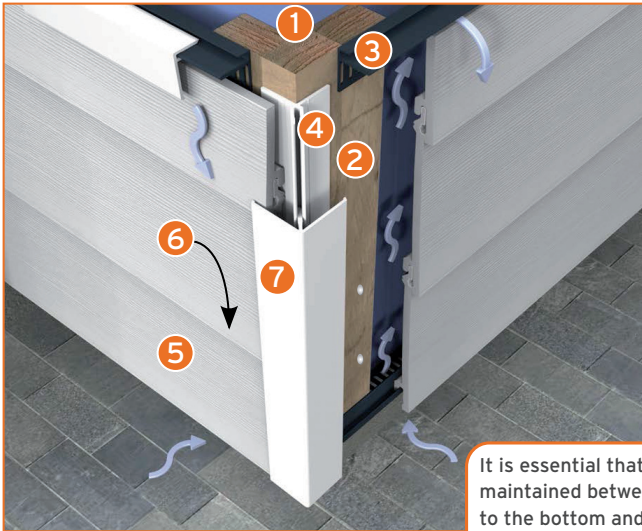
Junction between the board edges and window/reveals should be sealed with low modulus silicone.

If mechanical fixing is necessary use stainless steel screws or nails with plastic heads.

Fix trim **B** at junction between the cill and the window using low modulus silicone.

Cut endcaps **C** to length and fix using a suitable general-purpose adhesive.

Cladding Installation



Fitting instructions are suitable for all cladding ranges. Please see pages 22-26 for details of cladding products.

All Freefoam cladding profiles can be fitted horizontally or vertically.

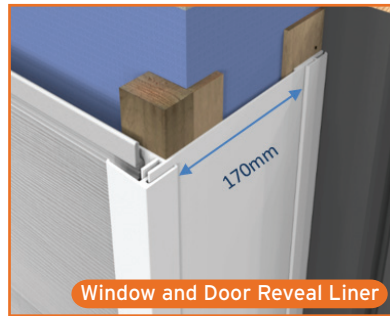
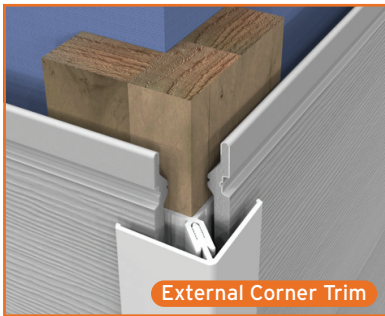
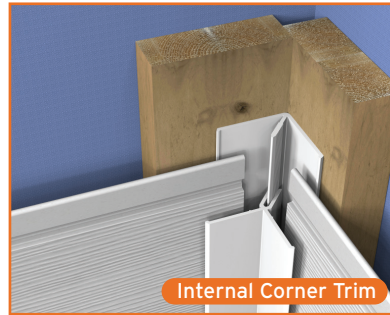
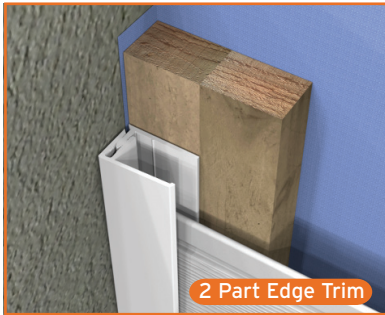
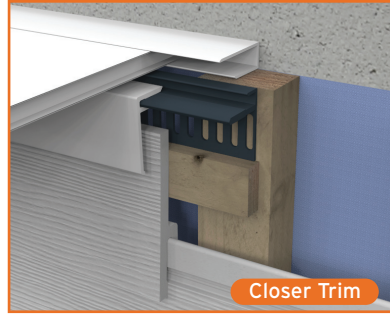
When installing Cladding boards vertically, additional cross battens fitted vertically must be installed to allow for ventilation.

It is essential that continuous ventilation is maintained between the vertical battens from the top to the bottom and adequate expansion is allowed at the ends of boards.

Typical Installation Sequence

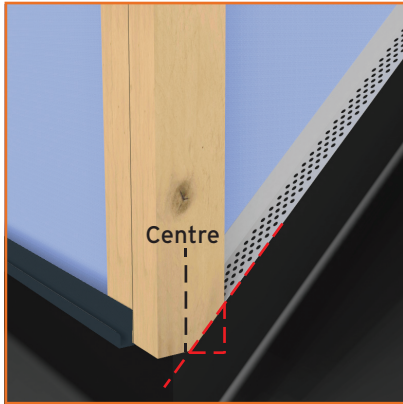
- 1** Fix a suitable breather membrane to substrate in accordance with manufacturer's recommendations.
- 2** Fix vertical 25mm x 50mm battens to substrate at 400mm c/c. start 200mm from the ground.
- 3** Fix ventilated starter trim at bottom of area (FC3123) making sure it is level. Fix ventilated closer trim (FC311E3) to top of area.
- 4** Fix Single Part Trims and/or first part of Two Part Edge, Corner and 'H' Trims as necessary. Do not cut second parts of trim to length yet.
- 5** Fit first Cladding Plank to Vented Starter Trim and screw fix top to cladding batten using ACSS250 cladding screws. Where necessary join the end of boards using a compatible Butt Joint or 'H' Trim with the correct expansion joint.
- 6** Interlock next Cladding Plank to the Plank below and screw fix top to cladding batten with ACSS250 cladding screws, repeating the process until the entire area to be clad is covered.
- 7** Cut second parts of 2 part trims to length and clip in place.

Cladding Trims



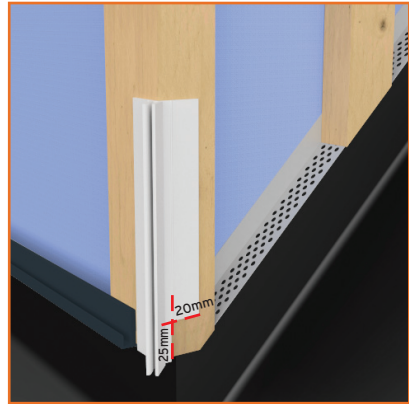
Dormer Cheek Cladding Installation

(based on 45° roof)

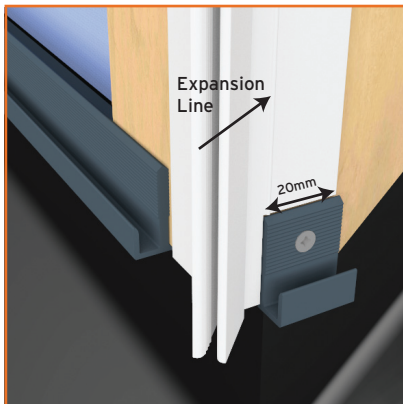


1. Fix Generic cladding vent trim to wall, parallel with roof covering.

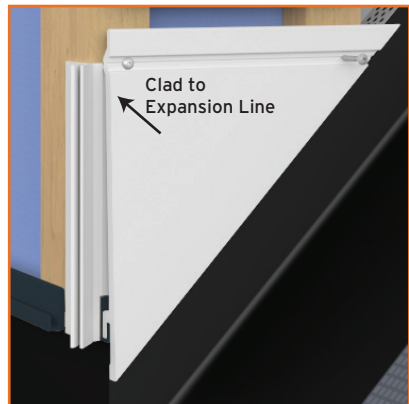
2. Fix batten to corner. Note: batten on pitched side to be trimmed so it is not visible when cladding is fixed.



3. Fix base part of corner trim (FC304E3). Cut as indicated to allow starter to be fixed.



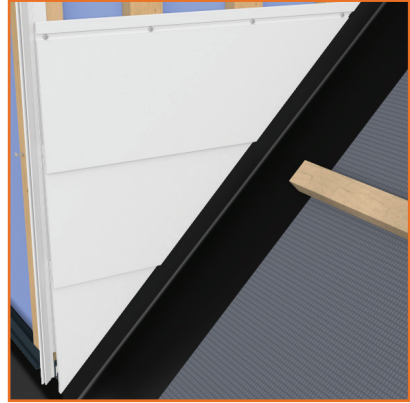
4. Cut and fix short 20mm piece of vented starter trim (FC3123).



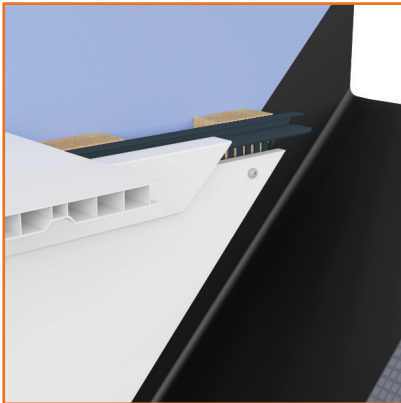
5. Cut first cladding plank to match angle of roof. Use to determine position of second batten. Centre of batten should be 45mm from edge of the cladding. Ensure plank is level and screw fix in place.



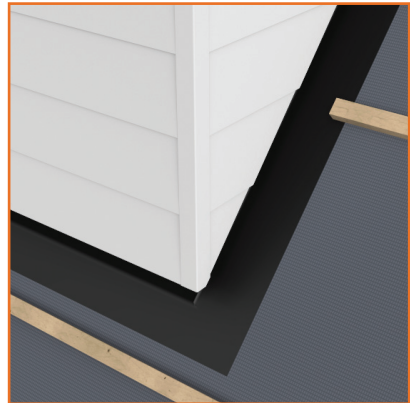
6. Cut next cladding plank to match angle of roof. Use the plank to determine position of third plank. Slot into previous plank and screw fix in place.



7. Fix remaining battens. Note: After the third batten spacing will be the same until the last board. Screw fix remaining boards.



8. It may be necessary to fix through the final board but fixings can be covered with the closer trim (FC311E3).



9. When all cladding is complete, trim second parts of the two part trims and fix.

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