

Glasroc F FIRECASE

Product Data Sheet

Introduction

Predominantly used as part of the British Gypsum FireCase structural steel encasement system, giving up to 180 minutes of fire protection.

Product description

Glasroc F FIRECASE consists of gypsum incorporating a tissue of glass fibre immediately below the surface of the board. The core is reinforced with glass fibre rovings and paper pulp. Available in square edge only.

This plasterboard is one of the products within our plasterboard range that is certified to BES 6001 achieving a rating of 'Very Good'.



Board performance

Fire protection

The surfaces of Glasroc F FIRECASE are designated Class 0 and non-combustible (for the purposes of national Building Regulations). Please refer to the table below.

Fire resistance

Please refer to the **White Book** section 9 - FireCase frameless structural steel encasement system at www.british-gypsum.com/literature/white-book.

Reaction to fire test performance

| Standard | Performance |
|--|---|
| BS 476: Part 4: 1970 (1984) Non-combustibility test for materials. | Non-combustible. |
| BS 476: Part 6: 1989 Method of test for fire propagation for products. | Index of performance (I) not exceeding 12 and a sub-index (i1) not exceeding 6. |
| BS 476: Part 7: 1997 Surface spread of flame tests for materials. | Class 1. |
| EN 15283-1. | A1. |

Thermal conductivity

Glasroc F FIRECASE - 0.30W/mK

Limitations of use

Glasroc F FIRECASE is unsuitable for use in areas subject to continuously damp or humid conditions and must not be used to isolate dampness. Glasroc F boards are not suitable for use in service temperatures above 49°C, but can be subjected to freezing conditions without risk of damage.

Effect of condensation

The thermal insulation and ventilation requirements of national Building Regulations aim to reduce the risk of condensation and mould growth in new buildings. However, designers should take

care to eliminate all possibility of problems caused by condensation, particularly in refurbishment projects. For further information please refer to **White Book**, available to download from the British Gypsum website at www.british-gypsum.com

Board colour

- White face paper
- White reverse side paper

Board printing

Face - None.

Edge - None.

Reverse - Product name, board thickness and production code.

Board range

| Width mm | Length mm | Edge type |
|---------------------------|-----------|---|
| 15mm Board 1200 | 2400 | Kg/m ² = 12.8 R (m ² K/W) = 0.05 S/E |
| 20mm Board 1200 | 2000 | Kg/m ² = 17.0 R (m ² K/W) = 0.07 S/E |
| 25mm Board 1200 | 2000 | Kg/m ² = 21.3 R (m ² K/W) = 0.08 S/E |
| 30mm Board 1200 | 2000 | Kg/m ² = 25.5 R (m ² K/W) = 0.10 S/E |

S/E = Square Edge

Bespoke sizes are also available.

Board types

S/E - To be finished with Gyproc Joint Cement for taped and filled joints or application of Thistle Board Finish, Thistle Multi-Finish or Thistle Durafinish plasters.

Application and installation

General

It is important to observe appropriate health and safety legislation when working on site i.e. personal protective clothing and equipment, etc. The following notes are intended as general guidance only. In practice, consideration must be given to design criteria requiring specific project solutions.

Glasroc F FIRECASE should be stored on a firm, flat and level surface. If the boards are temporarily stored outside they should be kept clear of the ground and securely covered with an anchored polythene sheet or tarpaulin to protect from dampness and inclement weather.

Handling

Manual off-loading of this product should be carried out with care to avoid unnecessary strain. For further information please refer to the Manual Handling section of the **Site Book** or Manual Handling Guide, available to download from www.british-gypsum.com.

Cutting

This product may be cut using a plasterboard saw or by scoring with a sharp knife and snapping the board over a straight edge. Holes for switch or socket boxes should be cut out before the boards are fixed using a utility saw or sharp knife.

Application and installation

Cutting (continued)

When cutting boards, power and hand tools should be used with care and in accordance with the manufacturers' recommendations. Power tools should only be used by people who have been instructed and trained to use them safely. Appropriate personal protective equipment should be used. Consider monitoring of exposure levels during this activity.

Fixing

For information on fixing this product please refer to the appropriate **White Book** and **Site Book** sections.

Plastering

The smooth face of Glasroc F FIRECASE can be plastered with either Thistle Board Finish, Thistle Multi-Finish or Thistle Durafinish. There should be a minimum of delay between completion of the lining and the commencement of plastering.

Jointing

Gyproc jointing materials produce durable joint reinforcement and a smooth, continuous, crack-resistant surface ready for priming and final decoration. Use Gyproc Joint Cement for jointing Glasroc F FIRECASE. For further information please refer to **White Book** section 13 - Jointing.

Gyproc Joint Cement is trowel applied to the joint and Gyproc Joint Tape bedded in. Alternatively Thistle ProTape FT50

is applied over the joint and a coat of Gyproc Joint Cement is trowel applied. The joint treatment is allowed to dry and lightly sanded to remove any high spots. For internal angles the use of Gyproc Joint Tape is preferable to Thistle ProTape FT50. Its crease makes it easier to achieve a neat, straight joint with higher cracking resistance.

For external angles, Gyproc Corner Tape, can be used, bedded in Gyproc Joint Cement. A second coat of Gyproc Joint Cement is trowel applied and feathered out to about 200mm width on each side on the joint. The joint treatment is allowed to dry and lightly sanded. Gyproc Metal Drywall Angle Bead can be used but Gyproc Joint Filler must be used on the first two coats.

A third coat of Gyproc Joint Cement may be necessary, applied as the second coat and slightly wider e.g. where boards are fixed with any steps, gaps or minor damage. When the final application has dried and been sanded smooth, the surface is ready for decoration.

NB Jointing and finishing of the Glasroc F FIRECASE is not a requirement to meeting the specified fire protection period.

Decoration

After the joint treatment has dried, decoration, including any decorator's preparatory work, should follow with the minimum delay.

Product standards

EN standard *EN 15283-1 Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 1: Gypsum boards with mat reinforcement.*

Type GM: Gypsum boards with mat reinforcement.

Type H1: Gypsum board with mat reinforcement with reduced water absorption rate.

Type F: Gypsum boards with mat reinforcement with improved core cohesion at high temperatures.

Glasroc F FIRECASE is covered by BBA certificate No. 93/2935.

Maintenance

Repair

Minor damage - Lightly sand the surface to remove burrs and fill flush with two applications of Gyproc Joint Cement.

Deep indents resulting from impact - Check the board core to ensure that it is not shattered. If intact, apply a coat of Gyproc Joint Filler, followed by the procedure for repairing minor damage as outlined above, once set / dry.

Extensive damage - When the damage is more extensive, it may be necessary to replace that area of plasterboard. It is

important that the replacement board is of the same type as specified and installed. Cut out the affected area back to the nearest framing member. Replace the board, accurately cutting and screw fixing the same type and thickness of plasterboard. Fill edge joints, then tape and finish in the recommended way. Redecorate as required.

NB It is essential that repairs are made 'like for like'. If the finish is skim plaster, jointing materials must not be used in the repair.

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British Gypsum reserves the right to revise product specification without notice. The information herein should not be read in isolation as it is meant only as guidance for the user, who should always ensure that they are fully conversant with the products and systems being used and their subsequent installation prior to the commencement of work. For a comprehensive and up-to-date library of information visit the British Gypsum website at: www.british-gypsum.com. For information about products supplied by Artex Limited or Saint-Gobain Isover please see their respective websites.

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