Glasroc F FIRECASE

Product Data Sheet

Introduction

Characteristics

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.

Applications

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

Board colour

☐ White - Face.
☐ White - Reverse.

Board printing

Face - None.
Edge - None.
Reverse - Product name, board thickness and production code.

Board range

Width mm	Length mm	Edge type
15mm board		Kg/m² = 12.8 R (m²K/W) = 0.05
1200	2400	S/E
20mm board		Kg/m² = 17.0 R (m²K/W) = 0.07
1200	2000	S/E
25mm board		Kg/m² = 21.3 R (m²K/W) = 0.08
1200	2000	S/E
30mm board		Kg/m² = 25.5 R (m²K/W) = 0.10
1200	2000	S/E

S/E = Square edge.

NB Bespoke sizes are also available.

Finishing

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.

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 the 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 perferable 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, Gyproc No-Coat Ultraflex 325 or Gyproc Drywall Metal Angle Bead are used, bedded in Gyproc Joint Cement. For board thicknesses over 20mm, Gyproc No-Coat Ultraflex 325 is recommended.
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.

A third application 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.

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 board. 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 board. 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.

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 H2: 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.

Board performance

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

Fire resistance
Please refer to **WHITE** BOOK section 9 – FireCase frameless structural steel encasement system.

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
λ 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 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 section 3.3 – Thermal insulation and condensation, available to download from the British Gypsum website at www.british-gypsum.com

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 the British Gypsum website at 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. 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.

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Health & Safety

This information reflects typical values and is not a product specification.

1. Identification of the substances / preparation and company

Glasroc F FIRECASE

Supplier	British Gypsum East Leake Loughborough Leicestershire LE12 6HX
Telephone	0844 800 1991

Recommended uses: Glasroc F FIRECASE is used for structural steelwork encasement and for internal linings in buildings.

2. Composition / information on ingredients

General composition: Calcium sulphate dihydrate with a glass fibre tissue immediately below the surface of the board on both sides and a core reinforced with glass fibre rovings.

3. Hazards identification

THE MOST IMPORTANT HAZARDS ARE:

These products are not classified as dangerous according to CHIP.

Dust from sawing or sanding may irritate the respiratory system, skin and eyes.

4. First aid measures

Eye contact	Wash eyes with clean water.
Skin contact	Wash thoroughly with soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse out mouth thoroughly and give plenty of water.
Inhalation	If irritation occurs, remove person to fresh air.
General	Seek medical attention if any symptoms persist.

5. Fire fighting measures

The products do not pose a fire hazard. However, some packaging materials may burn.

Suitable extinguishing media – water, foam, carbon dioxide or dry powder.

6. Accidental release measures

Not applicable.

7. Handling and storage

Use – Minimise dust generation when sawing or sanding in poorly ventilated places. Avoid eye contact - see **Section 8** for recommended personal protective equipment and **Section 3** for hazards identification.

Glasroc F FIRECASE will not support body weight between rafters, joints or frame members.

Manual handling – Sheets of Glasroc F FIRECASE can be unwieldy, use an appropriate lifting technique. The weight of each sheet can vary between products. For manual handling purposes assume the following nominal weights:

Glasroc F FIRECASE weights

Board	Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight tonnes
Glasroc F FIRECASE	15	1200	2400	37	1.3
	20	1200	2000	41	1.8
	25	1200	2000	51	1.7
	30	1200	2000	61	1.3

NB All weights are approximate. Weights for bespoke sizes available on request.

Mechanical handling – The dimensions of the pallet vary depending on the product size. To avoid potentially overloading a lift truck, it is important that any effect on load centres is considered. The nominal weight of each palletised load is given within the weights table in this section of this document.

Storage – Store on pallets supplied in dry conditions. To maintain stability, place pallets on firm level ground, and ensure that stacks are both level and vertical.

NB When working with individual boards, only work from a single pallet, not a stack.

Pallet stacking heights

The maximum stack heights on level concrete floors and vertical stacks are as follows:

Board width mm	Board length mm	Pallet stack height packs
600	3000	7
1200	2000	5
1200	2400	6
1200	3000	7

NB Information for bespoke sizes available on request.

8. Exposure control / personal protection

Workplace exposure limit

Substance	Total inhalable	Respirable
Plaster	10mg/m^3 8hr TWA	4mg/m^3 8hr TWA
Quartz (silica)		0.1mg/m^3 8hr TWA
Man Made Mineral Fibres (MMMF)	5mg/m^3 8hr TWA (gravimetric method)	

Personal protection

Respiratory — Use in a well ventilated area. Where practicable use engineering methods to control dust levels. If the exposure standards could be exceeded use a disposable face mask complying with *EN 149 FFP2*.

Skin — Wear appropriate clothing to protect against repeated or prolonged skin contact.

Eye — If there is a risk of material entering the eye, wear eye protection to *BS EN 166*.

9. Physical and chemical properties

Appearance — Flat sheet boards in different lengths and thicknesses, with a square edge.

10. Stability and reactivity

No special physical conditions need to be avoided. No specific restrictions regarding incompatible materials.

11. Toxicology information

No known toxicological effects.

12. Ecological information

Stable product with no known adverse environmental effects.

13. Disposal consideration

Waste from gypsum plasterboard products is normally classified as 'non-hazardous, non-inert' and is fully recyclable. Please refer to the British Gypsum Plasterboard Recycling Service literature or contact the Plasterboard Recycling Customer Service Centre on 0800 6335040 for details. Other methods of disposal are available. Always seek the advice of a trained and competent professional.

14. Transport information

Not classified as hazardous for transportation.

15. Regulatory information

Not classified under the CHIP regulations.

16. Other information

Control of Substances Hazardous to Health Regulations
The Manual Handling Operations Regulations
HSE Guidance Note EH40: Workplace Exposure Limits
Gypsum Wastes – Environment Agency Information Sheet
The British Gypsum **WHITE** BOOK
The British Gypsum **SITE** BOOK
The British Gypsum website: www.british-gypsum.com

Note to user: This Product Data Sheet does not constitute a workplace risk assessment for COSHH.

There are a number of situations where the approach to manual handling of British Gypsum products should be considered. For further guidance, please refer to the Manual Handling Section of the **SITE** BOOK, or Manual Handling Guide, available to download from the British Gypsum website at www.british-gypsum.com

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