

Glasroc FireCase s

Product data sheet

Introduction

Characteristics

Glasroc FireCase s 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

Used predominantly 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 $Kg/m^2 = 12.8$ $R (m^2K/W) = 0.05$		
600	3000	S/E
1200	2400	S/E
20mm board $Kg/m^2 = 17.0$ $R (m^2K/W) = 0.07$		
600	3000	S/E
1200	2000	S/E
25mm board $Kg/m^2 = 21.3$ $R (m^2K/W) = 0.09$		
1200	2000	S/E
30mm board $Kg/m^2 = 25.5$ $R (m^2K/W) = 0.10$		
1200	2000	S/E

S/E = Square edge.

Finishing

Board types

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

Plastering

The smooth face of Glasroc FireCase s can be plastered with either Thistle Board Finish or Thistle Multi-Finish. 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 FireCase s.

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 a neat, straight joint easier to achieve and the cracking resistance is higher.

For external angles, Gyproc Corner Tape, Superbead 200 or Gyproc Drywall Metal Angle Bead are used, bedded in Joint Cement. For board thicknesses over 20mm, Superbead 200 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 for the second 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 FireCase s is not a requirement to meeting the specified fire protection period.

Decoration

After the joint treatment has dried, decoration, including any decorators 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

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

Glasroc FireCase s is covered by BBA certificate No. 93/2935

Board performance

Fire protection

The surfaces of Glasroc FireCase s 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 6 – FireCase frameless structural encasement system.

Reaction to fire test performance

Standard	Performance
<i>BS 476: Part 4: 1970 (1984) Non-combustibility test for materials</i>	Non-combustible
<i>BS 476: Part 6: 1989 Method of test for fire propagation for products</i>	Index of performance (I) not exceeding 12 and a sub-index (I1) not exceeding 6
<i>BS 476: Part 7: 1997 Surface spread of flame tests for materials</i>	Class 1
<i>prEN 15283-1</i>	A1

Thermal conductivity

 Glasroc FireCase s - 0.286W/mK

Limitations of use

Glasroc FireCase s is unsuitable for use in areas subject to continuously damp or humid conditions and must not be used to isolate dampness. Plasterboards 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 2.3 – Thermal insulation and condensation.

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 FireCase s 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**.

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. Power tools should only be used by people who have been instructed and trained to use them safely.

Fixing

For information on fixing this product please refer to the appropriate **WHITE BOOK** and **SITE BOOK** sections.

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Product data sheet

Health & Safety

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

1. Identification of the substances / preparation and company

Glasroc FireCase s

Supplier British Gypsum Limited
East Leake
Loughborough
Leicestershire
LE12 6HX

Telephone 08705 456123

Recommended uses: Glasroc FireCase s 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 Get 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 FireCase s will not support body weight between rafters, joints or frame members.

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

Glasroc FireCase s weights

Board	Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight tonnes
FireCase s	15	600	3000	23	1.3
	15	1200	2400	37	1.3
	20	600	3000	31	1.1
	20	1200	2000	41	1.8
	25	1200	2000	51	1.7
	30	1200	2000	61	1.3

NB All weights are approximate.

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

Health & Safety (continued)

8. Exposure control / personal protection

Workplace exposure limit

Substance	Total inhalable	Respirable
Plaster	4mg/m ³ 8hr TWA	10mg/m ³ (8hr TWA)
Quartz (silica)	–	0.3mg/m ³ 8hr TWA
Man Made Mineral Fibres (MMMMF)	5mg/m ³ (8hr TWA)	15mg/m ³ (8hr TWA)

NB HSE guidance - control exposure to <0.1mg/m³ (8 hr TWA)

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 products are normally classified as 'non-hazardous' but should not be co-disposed with municipal waste. Dispose at an authorised landfill site in accordance with the Waste Management Licensing Regulations (see Section 16).

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**

NB 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**.

All literature can be downloaded from the British Gypsum website www.british-gypsum.com

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For a comprehensive and up-to-date library of information visit the British Gypsum website at: www.british-gypsum.com

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