



Glasroc® H Board

Technical & Safety Datasheet

INTRODUCTION

Characteristics

Glasroc® H is a high performance lightweight gypsum board with glass mat reinforcement embedded into its core for improved strength, durability and water resistance making it suitable for wet area application. The board contains a special additive that provides enhanced resistance to moisture and mould growth.

Applications

Glasroc® H is used in areas subject to high levels of moisture such as bathrooms, kitchens, swimming pools and shower enclosures. It provides as an excellent substrate for tiling. The glass mat lining offers a suitable bonding surface for tile adhesives ensuring secure and long lasting installation. It is also an ideal solution for curve walls and semi-exposed application such as balcony ceilings.

Board colour

-  Light blue glass mat liner
-  White reverse side glass mat liner

Board printing

Reverse - Standards, date, board dimensions, edge type, certification mark, company name & logo

Board range

Thickness mm	Length* mm	Width* mm	Weight kg/m ²	R Value m ² K/W
12.5	2400	1200	10.42	0.125
12.5	3000	1200	10.42	0.125

*Other lengths available upon request

Board edge types

T/E - Suitable for tapered and filled joints using Gyproc jointing materials
 S/E - Square edged board available upon request.

STANDARDS

Standard code	Standard description	Standard type/section
EN 520:2004+A1:2009	Gypsum Plasterboards, definitions, requirements and test methods	Type D & F
EN 15283-1:2018	Gypsum boards with mat reinforcement	Type GM-F H1
ASTM C1658 - 18	Standard Specification for Glass Mat Gypsum Panels	Type X, Sections 5 & 7
ASTM D3273 - 16	Standard test method for resistance to growth of mold	Rating 10

BOARD PERFORMANCE

Fire protection

Glasroc® H plasterboard linings provide good fire protection owing to the unique behaviour of the noncombustible gypsum core when subject to high temperatures. The inclusion of glass fibre and other additives in the core of the Glasroc® H improves its fire protection properties when compared to standard plasterboard.

Fire resistance

Please refer to the appropriate WHITE BOOK product or systems section for information on the fire resistance of building elements lined with Glasroc® H.

Reaction to fire

Standard	Performance
ASTM E84 - 18 Surface Burning Characteristics of Building Materials	Class A (as per International Building Code (IBC) 2015)

Thermal conductivity

0.1 W/m.K

Effect of temperature

Glasroc H is suitable for use in areas of intermittent moisture, humidity and direct contact with water, however is unsuitable for permanent contact with and to isolate liquid water. Plasterboards are not recommended to be stored in temperature above 52°C for prolonged periods but can be subjected to freezing condition without risk of damage.

Effect of condensation

The designers should take care to eliminate all possibility of problems caused by humidity and condensation.

Activ'Air Technology

Gyproc Activ'Air actively improves indoor air quality by taking VOCs out of the air and converts them into safe, inert compounds. It keeps working for 75 years, based on tests and analysis, even after multiple renovations. Activ'Air technology removes 70% of formaldehyde from indoor. Gyproc Activ'Air formulation can be made available on request.



Moisture resistance

Glasroc® H has excellent water repellent properties due to its inherently moisture resistant core with its specially treated glass mat reinforced liners. It is classified as H1 as per EN 15283-1 with a total water absorption rate not greater than 5% and further complying with ASTM C1177 and ASTM C1658 for water resistance.

Mold resistance

Glasroc® H exhibited no evidence of mold or fungal growth when tested in accordance with ASTM D3273 and scores a maximum score of 10/10.



INSTALLATION

General installation

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 project specific solutions.

Handling

Manual offloading 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 Middle East WHITE 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. When cutting

boards, power and hand tools should be used with care and in accordance with the manufacturer's 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.

Fixing

Boards should be installed vertically, printed side out with horizontal butt joints being either inline or in a staggered formation. Lightly butt boards together and do not force them into position, ensuring that any gaps between board joints do not exceed 3mm. Screws are to be fixed flush with the board surface at 300mm centers.

FINISHING

Jointing

Gyproc® Jointing Compound along with Gyproc® Glasroc X Tapetapes can be used to produce durable joint reinforcement for a smooth continuous crack free surface. The boards must then be given a thin coat of Gyproc® Jointing Compound over the entire surface of the board prior to painting.

Decoration

Internal/Semi-exposed applications:

Paint - Glasroc®H can be painted when used internally or in a semi-exposed environment. The boards must be jointed and given a thin coat of Gyproc® Jointing Compound prior to painting.

Tiling - Glasroc® H is a perfect backing board for tiled areas. it can support tiled coverings up to 60kg/m² with studs at 600mm centers.

Repair

Internal

Minor damage - Lightly sand the surface to remove burrs and fill flush with two applications of Gyproc® Jointing Compound. When dry, decoration including any decorator's preparatory work should follow.

Deep indents resulting from impact - Check the plasterboard core to ensure that it is not shattered. If intact, apply a coat of Gyproc® Jointing Compound followed by the procedure for repairing minor damage once set/dry.

Damaged core and/or broken edges – not fully perforated (non-fire rated or non-high impact situations only) - Score the glass mat liner to the face of the board around the damaged area approximately 10mm away from the undamaged core. Remove the damaged core and glass mat liner. Apply PVA to seal the core and surrounding liner. Bulk fill the hole with Gyproc® Jointing Compound and strike off flush. Once the filler is set/dry, follow the procedure for repairing minor damage.

Extensive damage – fully perforated - When the damage is more extensive or the system is fire rated or has a high impact resistant requirement, it may be necessary to replace that area of Glasroc® H 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. Fill edge joints, then tape using Gyproc® Glasroc X Jointing Tapes and finish in the recommended way. When dry, decoration/finishing including any decorator's preparatory work should follow.

HEALTH & SAFETY

1. Identification of the substances/ preparation and company

Glasroc® H Board

Supplier	Saint-Gobain Gyproc Emirates Industries L.L.C ICAD 1, Mussafah Abu Dhabi United Arab Emirates P.O. Box 38983
Free Phone	+971 800 GYPROC (497762)
E-Mail	gyproc-me@saint-gobain.com

2. Hazards identification

This product is not classified as dangerous according to CLP. Dust from mixing or sanding may irritate the respiratory system, skin and eyes.

3. Composition / information on ingredients

General composition: Calcium sulphate dehydrate embedded with glass fibre mat, natural constituents may include minor amounts of quartz. Small quantities of chopped glass fibre, microsilica and vermiculite may be added, with starch, foam and dispersants. Any board may contain small quantities of chopped man-made mineral fibre and microsilica.

4. First aid measures

Eye contact	P305/P313 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
Skin contact	P264 - After contact with skin, wash immediately with plenty of soap and water.
Ingestion	P331 - If swallowed, do not induce vomiting, seek medical advice immediately and show this document. P301/P330 - If swallowed rinse mouth with water (only if the person is conscious)
Inhalation	P304/P340 - In case of accident by inhalation, remove casualty to fresh air and keep at rest.
General	Get medical attention if any symptoms persist.

5. Fire fighting measures

The product does not pose a fire hazard. However, some packaging materials or facings may burn.

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

6. Accidental release measures

Not applicable.

7. Handling and storage

7.1. Precautions for safe handling

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 2 for hazards identification.

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

Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight kg
12.5	1200	2400	30.01	1853
12.5	1200	3000	37.51	1807

7.2. Conditions for safe storage, including any incompatibilities:

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. If boards are temporarily stored outside these must be sufficiently supported off the ground and covered by a securely anchored polythene sheet or tarpaulin to protect them from dampness, weather, contamination and mechanical damage e.g. from construction traffic.

Pallet stacking heights

The maximum stack heights on level concrete floors and vertical stacks are 4 pallets.

8. Exposure control / personal protection

Workplace exposure limit

Substance	Total inhalable	Respirable
Gypsum	10mg/m ³ 8hr TWA	4mg/m ³ 8hr TWA
Quartz (silica)	-	0.1mg/m ³ 8hr TWA
Man Made Mineral Fibres (MMMF)	4mg/m ³ for total dust. 1 fibre/cm ³	-

Personal protection

Respiratory	P284 - Use only in well ventilated areas. Wear eye/face protection. Face masks to EN 149 FFP2.
Skin	P303 - Wear suitable protective clothing.
Eye	P305/P313 - Wear eye/face protection. Eye protection to BS EN 166.

9. Physical and chemical properties

Appearance	Flat sheet boards with tapered/squared edge
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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

This product is stable with no known adverse effects in the products intended use. Products contain antifungal additive, when exposed to water antifungal additive may leach from material. See section 3

13. Disposal consideration

Waste from gypsum plasterboard products is normally classified as 'non-hazardous, non-inert', is fully recyclable and is classified as EWC 02 08 17.

If you would like to recycle Gypsum plasterboard waste, we at Gyproc offer Gypsum recycling services and are happy to take segregated waste from your site. Please refer to the Gyproc Plasterboard Recycling brochure. Always seek advice of a trained and competent professional. Off-cuts, where appropriate, can be used as noggings to reduce or remove recycling requirement.

Alternatively, plasterboard waste can be disposed off at an authorised landfill site in accordance with the local waste management regulations.

14. Transport information

Not classified as hazardous for transportation.

15. Regulation information

Not classified under the CLP regulations.

16. Other information

Control of Substances Hazardous to Health Regulations (COSHH)

The Manual Handling Operations Regulations

HSE Guidance Note EH40: Workplace Exposure Limits

Gypsum Wastes – Environment Agency Information Sheet

Gyproc Middle East **WHITE BOOK**

Gyproc Middle East website: www.gyproc.ae

This Safety Data Sheet does not constitute a workplace risk assessment for COSHH. There are a number of situations where the approach to manual handling of Gyproc® products should be considered. For further guidance, please refer to the Manual Handling Section of The White Book, available to download from www.gyproc.ae





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Published on January 2025

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