













TECHNICAL DATASHEET



INTRODUCTION

Characteristics

Glasroc X is a high performance gypsum based sheathing board with glass mat reinforcement embedded into its core for improved strength, fire and weather resistance also making it suitable for external applications. The board contains a special additive that provides high resistance to mold and water penetration combined with a UV resistant surface for long term protection.

Applications

Glasroc X is especially designed for weather protection to structural frame steel (SFS) constructions and is an ideal substrate for ETICS (External Thermal Insulation Composite System)/EIFS (External Insulation Finishing System) or direct render application. This board is a perfect solution for external ceilings/soffits, wall systems, curved applications, facade cladding systems and internal wet area applications.

Board colour

White face glass mat liner with Glasroc X branding White reverse side glass mat liner

Board printing

Reverse - Standards, date, time and location of manufacture, board dimensions & edge type

Board dimensions

Thickness	mm	12.5
Width	mm	1200
Length*	mm	2400, 3000
Weight	kg/m²	11.5

^{*} Other lengths available upon request

Board edge types

T/E - Suitable for tapered and filled joints using Gyproc jointing materials, and façade systems using direct render and ETICS/EIFS or where tiling is required.

S/E - Square edged board available upon request.

STANDARDS

EN 15283-1:2018

Gypsum boards with mat reinforcement

• Type GM-FH1

ASTM C1177 - 17

Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing

• Type X

ASTM C1658 - 18

Standard Specification for Glass Mat Gypsum Panels

Type X

BOARD PERFORMANCE

Moisture resistance

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

Non-combustibility

Non-combustible when tested in accordance with ASTM E136.

System performance - Fire and Acoustic

Please refer to the appropriate WHITE BOOK product or systems section for information on fire and acoustic performance of building elements lined with Glasroc X.

Reaction to fire performance

Standard	Performance	
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 (both sides)	
EN 13501 - 1:2018 Classification using data from reaction to fire tests	Class A1	
ASTM E84 - 18 Surface Burning Characteristics of Building Materials	Class A (as per International Building Code (IBC) 2015)	

Thermal conductivity

0.19 W/mK

Effect of condensation

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



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APPLICATION & 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 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.

Fixina

Internal applications

For internal applications 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.

External applications

For all exterior applications, boards should be fixed in a staggered pattern either horizontally or vertically, with printed side out to ensure weather protection and UV performance. Lightly butt boards together and do not force them into position, ensuring that any gaps between board joints do not exceed 3mm. Glasroc X Screws are to be fixed flush with the board surface at 200mm centers.

Jointing

Joint treatment is determined in each case by the type of application of Glasroc X and surface covering:

Internal applications

Gyproc Jointing Compound along with Gyproc joint tapes 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.

Direct render finishing in external applications

Apply 100mm wide, 160g/m² mesh reinforcing tape at all board joints with a compatible basecoat mortar. Once set, cover the full surface using a 160g/m² mesh ensuring edges are overlapped by 100mm. The mesh is then completely covered with a compatible basecoat mortar using the appropriate trowel.

ETICS/EIFS

Where Glasroc X is used as substrate, appropriate mastic or self- adhesive tape recommended by the manufacturer should be applied to seal and ensure air tightness of joints between boards.

Finishing

Internal/Semi-exposed applications: Paint

Glasroc X 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.

External applications: Direct render systems

Direct render is often used as the finished surface of walls exposed to the external environment. The render must be a compatible basecoat mortar. It must use a reinforcement mesh with an acrylic or siloxane based topcoat.

ETICS/EIFS systems

ETICS or EIFS systems are used where additional thermal and acoustic performance is required. The insulation panels are adhesively fixed to the Glasroc X board with further mechanical fixings dependent on location.

Tiling

Glasroc X is a perfect backing board for tiled areas. it can support tiled coverings up to 60kg/m^2 with studs at 600 mm 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.

<u>Deep indents resulting from impact</u> - 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 X 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 Jointing Tapes and finish in the recommended way. When dry, decoration/finishing including any decorator's preparatory work should follow.

Repair - External

Where Glasroc X has suffered damage to the glass mat liner, it will be necessary to replace that area of Glasroc X 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. Treat the joints following the appropriate jointing/finishing advice for direct render or ETICS/EIFS.



MATERIAL SAFETY DATASHEET



HEALTH & SAFETY

1. Identification of the substances/ preparation and company

Glasroc® X

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

Recommended uses: Glasroc X is used as an internal lining and as a sheathing board for external applications

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

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

This product should not be allowed to enter drains water courses or soil

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

<u>Manual handling</u> – Sheets of Glasroc X 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 X weights

Product	Board	Board	Board	Board	Pallet
	thickness	width	length	weight	weight
	mm	mm	mm	kg	kg
Glasroc X	12.5	1200	2400 3000	33.12 41.40	2040 1903

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.

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.

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

Board width mm	Board length mm	Pallet stack height packs
1200	2400, 3000	4



MATERIAL SAFETY DATASHEET



HEALTH & SAFETY (CONTINUED)

8. Exposure Control / personal protection

Workplace exposure limit

Substance	Total inhalable	Respirable
Gypsum	10 mg/m³ 8hr TWA	4 mg/m³ 8hr TWA
Quartz (silica)	-	0.1 mg/m³ 8hr TWA
Man made mineral fibres (MMMF)	4 mg/m³ for total dust. 1 fibre/cm³	-

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

10. Stability & 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.

Gyproc Middle East website: www.gyproc.ae

15. Regulatory 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

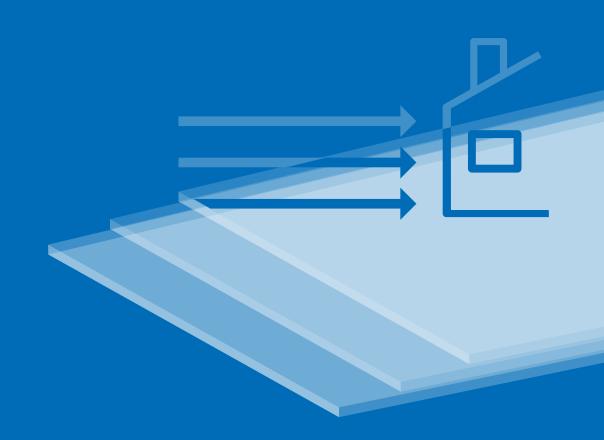
Note to user: This Safety Datasheet does not constitute a workplace risk assessment for COSHH.

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



SpecSure® is a unique 'off the shelf' warranty to end users that confirms Gyproc® proprietary systems will perform to the parameters published in our current literature from the day they are installed.

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First Edition Literature Code: 0290-DS-35-III