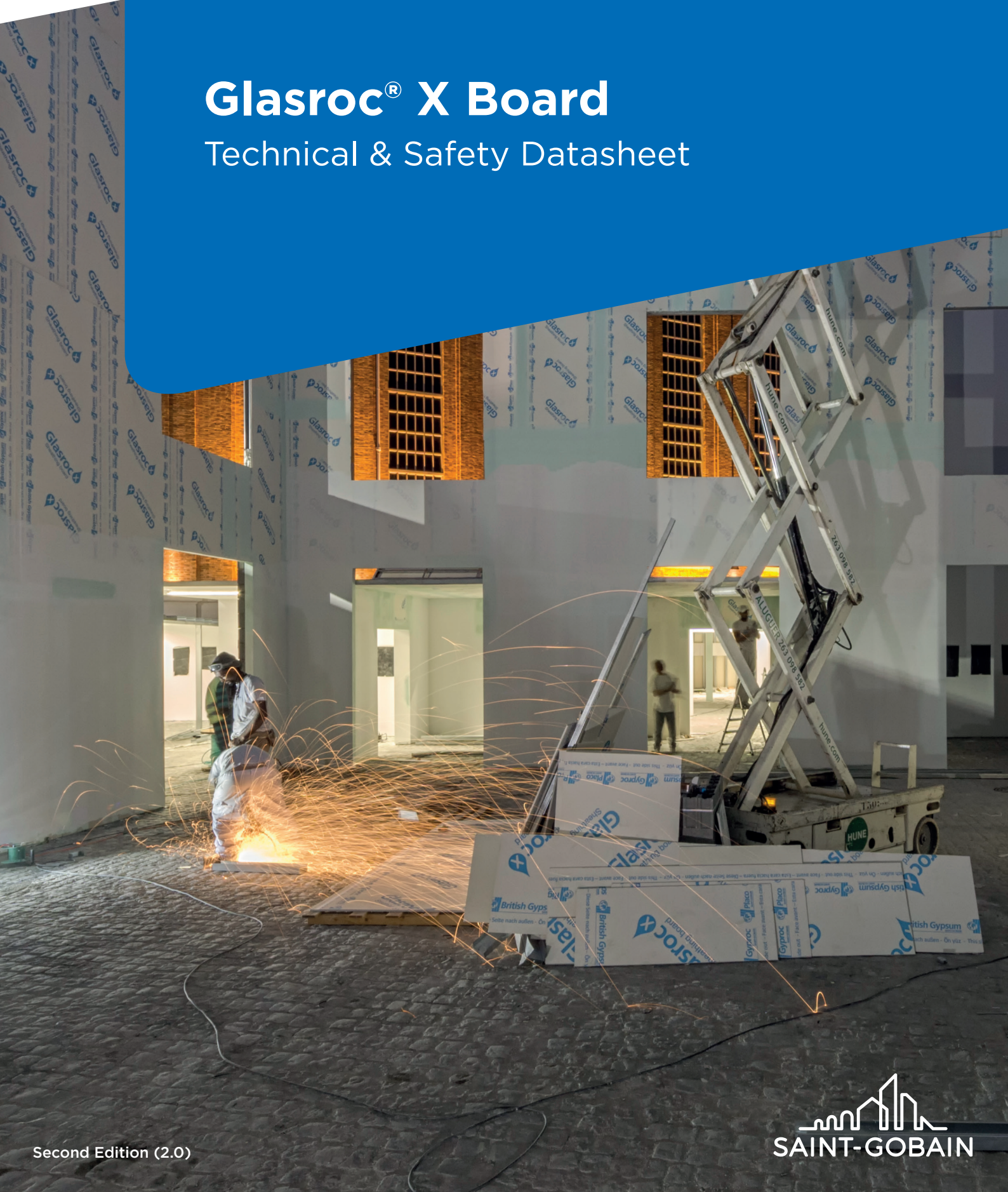




Glasroc® X Board

Technical & Safety 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 range

Thickness mm	Length* mm	Width* mm	Weight kg/m ²	R Value m ² K/W
12.5	2400	1200	11.5	0.125
12.5	3000	1200	11.5	0.125

*Other lengths and widths 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.

Board printing

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

STANDARDS

Standard code	Standard description	Standard type/section
EN 520:2004+A1:2009	Gypsum Plasterboards, definitions, requirements and test methods Gypsum sheathing board Gypsum plasterboard with improved core adhesion at high temperatures	Type E Type F
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
ASTM D3273 - 16	Standard test method for resistance to growth of mold	Rating 10

BOARD PERFORMANCE

Fire protection

Glasroc® X 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® X improves its fire protection properties when compared to standard plasterboard.

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. The substitution of Gyproc® FireStop with the same thickness of Glasroc® X will not change the fire performance.

Reaction to fire

Standard	Performance
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

0.1 W/m.K

Effect of condensation

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

Resistance to UV exposure

Glasroc® X boards may be exposed for up to 12 months under normal periods and conditions of wind, rain and heat exposure, prior to over cladding.

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 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



Building radius

Minimum dry building radius of Glasroc® X board is 1200mm.

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

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 150mm centers.

FINISHING

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.

Decoration

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/m² with studs at 600mm centers. Please get in touch with Saint-Gobain Gyproc technical support representative for selecting suitable framing system.

Repair

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 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.

HEALTH & SAFETY

1. Identification of the substances/ preparation and company

Glasroc® X 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 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:

Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight kg
12.5	1200	2400	33.12	2040
12.5	1200	3000	41.4	1903

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.

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 (MMMMF)	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 17 08 02.

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 authorized landfill site in accordance with the local waste management regulations.

to the Manual Handling Section of The White Book, available to download from www.gyproc.ae

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





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Published on January 2025

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