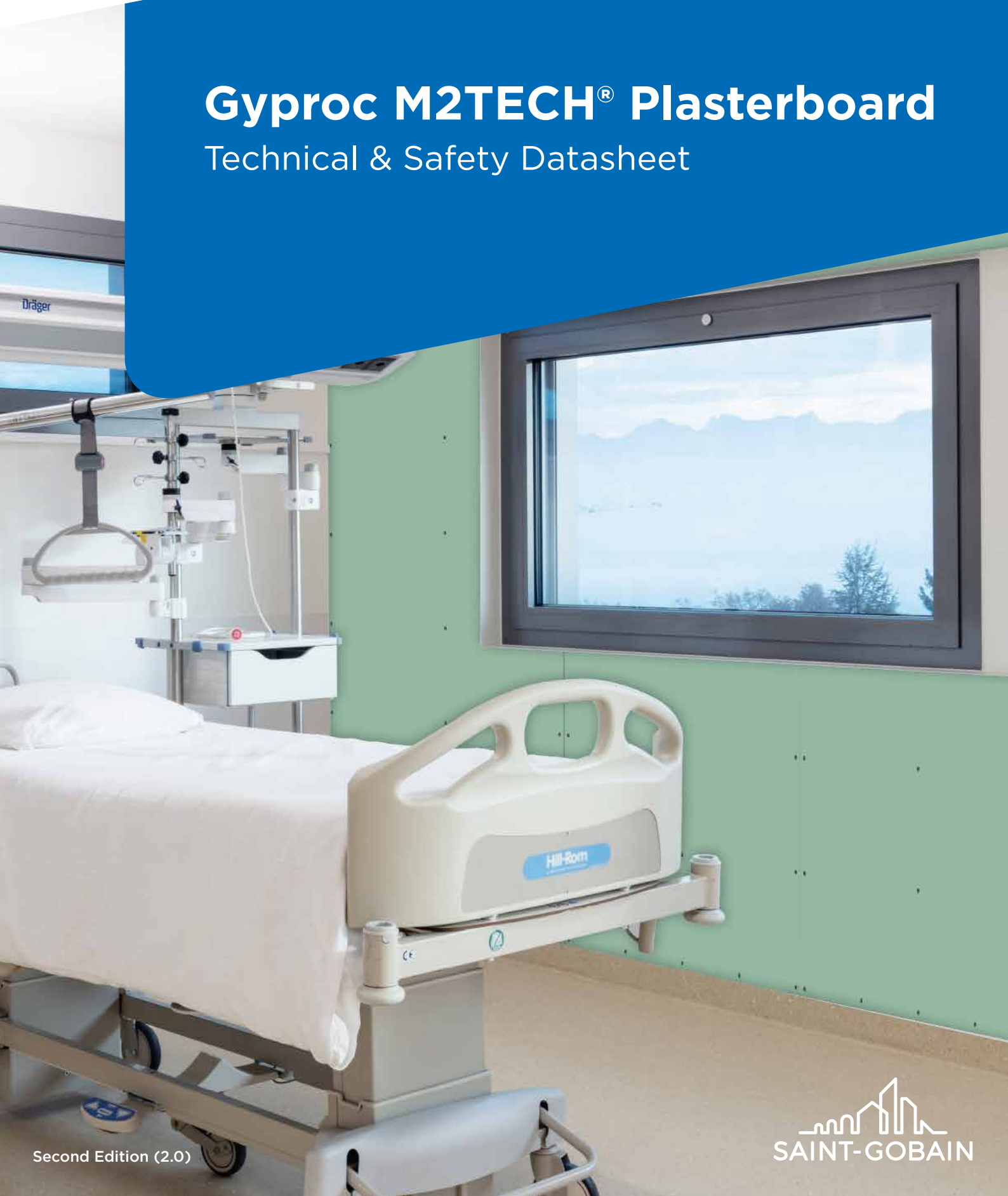




Gyproc M2TECH® Plasterboard

Technical & Safety Datasheet



INTRODUCTION

Characteristics

Gyproc® M2TECH boards are specially formulated with biocide and other additives in the core, encased in a green face paper for applications where enhanced moisture and mold resistance is required.

M2TECH boards are available across the complete range of Gyproc plasterboards and are suitable for most system applications where normal fire, structural and acoustic levels are specified. Suitable for direct decoration.

Applications

Our M2TECH boards for wall linings and ceilings are ideally suited for use in hospital treatment rooms, school locker rooms and all types of wet areas. They are suitable for most system applications where normal fire, structural and acoustic levels are specified.

Board colour

- Green face side paper
- Brown reverse side paper

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	0.13
12.5	3000	1200	10	0.13
15	2400	1200	11.6	0.16
15	3000	1200	11.6	0.16

**Other thicknesses, lengths and widths available upon request
Gyproc M2TECH is also available in FireStop, DuraLine, CoreBoard, SoundBloc and Activ'Air variants

Board edge types

T/E - for tapered and filled joints using Gyproc® jointing materials

STANDARDS

Standard code	Standard description	Standard type/section
BS EN 520: 2004+A1: 2009	Gypsum Plasterboards, definitions, requirements and test methods	Type A & H1
ASTM C1396-17	Standard Specification For Gypsum Board	Section 7 water resistant gypsum backing board
ASTM D3273-16	Standard test method for resistance to growth of mold	Achieves rating 10 as per ASTM D3273

BOARD PERFORMANCE

Fire protection

Plasterboard linings provide good fire protection owing to the unique behaviour of the noncombustible gypsum core when subjected to high temperatures.

Fire resistance

Please refer to the appropriate WHITE BOOK product or systems section for information on the fire resistance of building elements lined with Gyproc M2TECH®.

Reaction to fire

Standard	Performance
EN 520:2004+A1:2009	Classified without further testing as A2-s1, d0.
ASTM E84-17a	Class A

Thermal conductivity

0.095 W/m.K

Effect of temperature

Gyproc M2TECH® is suitable for use in areas of intermittent moisture. However, it is unsuitable for use in areas subject to continuously damp or humid conditions and must not be used to isolate dampness. Plasterboards are not recommended to be used in temperatures above 52°C for prolonged period 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.

Tiling weight

Gyproc Moisture Resistant and Gyproc M2TECH variant boards can bear tiling weight upto 32Kg/m². Please use Gyproc® Glasroc version board for tiling weight ranging from 32-60Kg/m²

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.



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 specific project 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. 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.

Fixing

Fix boards with decorative side out to receive joint treatment or a skim plaster finish. Lightly butt boards together. Never force boards into position. Install fixings not closer than 13mm from cut edges and 10mm from bound edges. Position cut edges to internal angles whenever possible, removing paper burrs with fine sandpaper. Stagger horizontal and vertical board joints between layers by a minimum of 600mm. Locate boards to the centre line of framing where this supports board edges or ends.

FINISHING

Jointing

Gyproc® jointing materials produce durable joint reinforcement and a smooth, continuous, crack-resistant surface ready for priming and final decoration. A number of jointing specifications are available to suit the board type, method of application, and site preference.

Decoration

After the joint treatment has dried, decoration, including any decorator's preparatory work, should follow.

Repair

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 (non-fire rated or non-high impact situations only) - Remove the damaged area of core. Score the liner approximately 10mm away from the undamaged core around the damaged area, and peel the paper liner away. 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 - When the damage is more extensive or the partition is fire rated or has a high impact resistant requirement, it may be necessary to replace that area of plasterboard. 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 plasterboard, accurately cutting and screw fixing the same type and thickness of plasterboard. Fill edge joints, then tape using Gyproc® Jointing Tapes and finish in the recommended way. When dry, decoration including any decorator's preparatory work should follow.

HEALTH & SAFETY

1. Identification of the substances/ preparation and company

Gyproc M2TECH® Plasterboard

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

2.1 Classification of the article

This product is **not** classified as hazardous according to CHIP.

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

3. Composition / information on ingredients

Calcium sulphate dihydrate encased in paper liners, natural constituents may include minor amounts of starch, boric acid, foaming agent, glass fibre, microsilica and vermiculite may be added, with starch, foaming agent and dispersing agent additives.

Any board may contain small quantities of chopped man-made mineral fibre and microsilica.

4. First aid measures

Eye contact	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 - Wear eye / face protection.
Skin contact	S28 - After contact with skin, wash immediately with plenty of soap and water. S36 - Wear suitable protective clothing.
Ingestion	S62 - If swallowed, do not induce vomiting, seek medical advice immediately and show this document. S64 - If swallowed, rinse mouth with water (only if the person is conscious).
Inhalation	S51 - Only use in well ventilated areas. S63 - 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. Plasterboards will not support body weight in between rafters, joints or frame members.

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.

Manual handling - Sheets of plasterboard 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	28.8	2068
12.5	1200	3000	36	2025
15	1200	2400	33.41	2057
15	1200	3000	41.76	2086

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.

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
Plaster	10mg/m ³ 8hr TWA	4mg/m ³ 8hr TWA
Quartz (silica)	-	0.1mg/m ³ 8hr TWA
Man Made Mineral Fibres (MMMMF)	5mg/m ³ 8hr TWA (gravimetric method)	-

Personal protection

Respiratory	S51 - Use only in well-ventilated areas. S39 - Wear eye / face protection. Face masks to EN 149 FFP2.
Skin	S36 - Wear suitable protective clothing.
Eye	S39 - Wear eye / face protection. Eye protection to BS EN 166.

9. Physical and chemical properties

Appearance	Flat sheet boards in different widths and thicknesses, with a square or tapered 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

Stable product with no known adverse environmental effects.

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.

14. Transport information

Not classified as hazardous for transportation.

15. Regulation information

Not classified under the CHIP 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 March 2025

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