



Gyproc Moisture Resistant Plasterboard Technical Datasheet

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Introduction

Characteristics

Gypsum plasterboard with water repellent additives in the core and paper liners.

Gyproc Moisture Resistant consists of an aerated gypsum core with water repellent additives encased in, and firmly bonded to strong paper liners. Gyproc Moisture Resistant is a plasterboard that is suitable for drylining internal surfaces.

Applications

Suitable as a base for tiling in wet use areas. Also used for external soffits in sheltered positions.

Board colour

- Green face paper
- Green reverse side paper

Board printing

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

Board range

Width mm	Length mm*	Edge Type
12.5mm board		$Kg/m^2 = 9.10$ $R (m^2K/W) = 0.07$
1200	2400 3000	T/E S/E T/E S/E
15mm board		$Kg/m^2 = 11.00$ $R (m^2K/W) = 0.08$
1200	2400 3000	T/E S/E T/E S/E

T/E = Tapered Edge S/E = Square Edge
* Other lengths available on request

Finishing

Board types

T/E - with Gyproc jointing materials for taped and filled joints.
S/E - as a base for ceramic tiling.

Skim plastering should not normally be specified to Gyproc Moisture Resistant boards. These types of board are intended for use in environments of higher than normal humidity for which no gypsum plaster is designed to be suitable. Where Gyproc Moisture Resistant board options are used in shell and core construction to provide temporary resistance to high moisture conditions, they can be skimmed at a later date after building envelope has been made weather-tight. Plaster should be applied only to the face of moisture resistant boards and pre-treatment with a bonding agent is required.

Jointing

Gyproc jointing materials (Gyproc Jointing Compound) 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.

Standards

EN 520: 2004 Gypsum Plasterboards, definitions, requirements and test methods

Type A: Gypsum plasterboard.

Plasterboard with a face to which suitable decoration may be applied.

Type D: Gypsum plasterboard with control density.

These boards have a controlled density, with a face to which suitable decoration may be applied. This enables improved performance in certain applications to be obtained.

Type H1: Plasterboard with reduced water absorption rate

Boards which have additives to reduce the water absorption rate. They may be suitable for special applications in which reduced water absorption

properties are required to improve the performance of the board. For the purposes of identification, these boards are designated Type H1, H2 and H3, with different water absorption performance

BS1230: PART 1: 1985 Specification for plasterboard excluding materials submitted to secondary operation.

Type 3: Gypsum Moisture Resistant Wallboard: Linings where there is risk of limited exposure of the board to moisture

Type 4: Gypsum Moisture Repellent Wallboard: Linings where there is risk of limited exposure of the board to moisture on the surface of the board

ASTM C 1396: Standard Specification For Gypsum Board Section 7: Water-resistant gypsum backing board

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Board Performance

Fire protection

Plasterboard linings provide good fire protection owing to the unique behaviour of the non-combustible 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 Moisture Resistant.

Reaction to fire test 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 520: 2004	Classified without further testing as A2-s1, d0

Thermal conductivity

Gyproc Moisture Resistant - 0.19W/mK

Effect of temperature

Gyproc Moisture Resistant is suitable for use in areas of intermittent moisture however, 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 stored in temperature above 49° 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.

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.

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 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. 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.

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Health & Safety

1. Identification of the substances / preparation and company

Gyproc plasterboards

Gyproc Regular
Gyproc Moisture Resistant
 Gyproc DuraLine
 Gyproc FireStop
 Gyproc FireStop MR

Supplier
 Saint Gobain Gyproc Emirates Industries L.L.C
 ICAD 1
 Mussafah, Abu Dhabi
 United Arab Emirates
 P.O. Bx 38983
 Free Phone: 800 GYPROC (497762)

Recommended uses: Gyproc plasterboards are used as internal linings in buildings. This information reflects typical values and is not a product specification.

2. Composition / information on ingredients

Aerated gypsum core (calcium sulphate dihydrate) encased in and firmly bonded to strong paper liners. Constituents may include minor amounts of starch, boric acid, foaming agent, water repellent (silicon oil) and dispersing agent additives.

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

Gyproc Moisture Resistant include a silicone and / or wax additive. Certified as Asbestos free by Al Hoty - Stanger Laboratories Certificate: A10 - 141656

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 or facings 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.

Plasterboards will not support body weight between rafters, joints or frame members.

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:

Gyproc Moisture Resistant weights

Board	Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight tonnes
Gyproc Moisture Resistant	12.5	1200	2400	26.20	1.976
	12.5	1200	3000	32.76	2.008
	15	1200	2400	31.68	1.990
T/E & S/E	15	1200	3000	39.60	2.102

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 plasterboard as supplied in dry conditions. To maintain stability, place the stack 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
1200	2400	4
	3000	4

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 (MMMF)	5mg/m ³ (8hr TWA)	15mg/m ³ (8hr TWA)

NB: HSE guidance – control exposure to <0.1mg/m³ (8hr 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.

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9. Physical and chemical properties

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

Wastes 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 local waste management regulation.

14. Transport information

Not classified as hazardous for transportation.

15. Regulatory information

Not classified under the CHIP regulations.

16. Other information

Regulation no. EI004 Soild Hazardous materials 1st Edition January 2010
Abu Dhabi Environment, Health and Safety Manegment System Regulations
Framework (ADEHSMS)

The Gyproc website: www.gyproc.ae

THE WHITE BOOK

Note to User:

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 Gyproc products should be considered. For further guidance, please refer to the Manual Handling Section of the WHITE BOOK.

Gyproc reserves the right to revise product specifications without notice. The information in this document was correct to the best of our knowledge at the time of publication. It is the user's responsibility to ensure that it remains current prior to use. The information in this document is for guidance only and should not be read in isolation. Users should read and familiarize themselves with all the information contained in this document and ensure that they are fully conversant with the products and systems being used, before subsequent specification or installation.

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