



# Gyproc FireStop MR Plasterboard

## Technical Datasheet

# Gyproc FireStopMR

## Product data sheet



### Introduction

#### Characteristics

Gyproc FireStop with water repellent additives in the core. Gyproc FireStopMR consists of an aerated gypsum core with glass fibre, water repellent and other additives encased in, and firmly bonded to, strong paper liners. Gyproc FireStopMR is a plasterboard that is suitable for drylining internal surfaces.

#### Applications

Used in Gyproc partition, wall lining and ceiling systems to give increased fire protection. Also used for protection to structural steel.

#### Board colour

- Pink 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 $Kg/m^2 = 10.1 R (m^2K/W) = 0.05$		
1200	2400,2700,2800,3000	T/E S/E
15mm board $Kg/m^2 = 12.0 R (m^2K/W) = 0.06$		
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 moisture grade. 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 moisture grade 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 F: Gypsum plasterboard with improved core adhesion at high temperatures. Plasterboard with a face to which suitable gypsum plasters or decoration may be applied. These boards have mineral fibres and/or other additives in the gypsum core to improve core cohesion at high temperatures.

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 waterabsorption 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

Type 5: Gypsum Wallboard F: Linings as in Type 1, but where improved fire protection performance is required

ASTM C 1396: Standard Specification For Gypsum Board

Section 7: Water-resistant gypsum backing board  
Type X

# Gyproc FireStopMR

## Product data sheet



### 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. The inclusion of glass fibre and other additives in the core of Gyproc FireStopMR 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 Gyproc FireStop. The substitution of Gyproc FireStop with the same thickness of Gyproc FireStopMR will not change the fire performance.

#### Effect of temperature

Gyproc FireStopMR 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.

#### 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 FireStopMR - 0.24W/mK

### 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.



# Gyproc FireStopMR

## Product data sheet



### 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 LLC  
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

Calcium sulphate dihydrate encased in paper liners, 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.

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 FireStop MR weights

Board	Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight tonnes
Gyproc FireStop MR	12.5	1200	2400	29.09	2.068
	12.5	1200	2700	32.72	1.923
	12.5	1200	2800	33.94	1.923
	12.5	1200	3000	36.36	1.918
	15	1200	2400	34.67	2.101
T/E & S/E	15	1200	3000	43.34	2.007

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

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### 8. Exposure control / personal protection

#### Workplace Exposure Limit

Substance	Total inhalable	Respirable
Plaster	4mg/m <sup>3</sup> 8hr TWA	10mg/m <sup>3</sup> (8hr TWA)
Quartz (silica)	–	0.3mg/m <sup>3</sup> 8hr TWA
Man Made Mineral Fibres (MMMF)	5mg/m <sup>3</sup> (8hr TWA)	15mg/m <sup>3</sup> (8hr TWA)

NB: HSE guidance – control exposure to <0.1mg/m<sup>3</sup> (8hr TWA)

#### Personal protection

<b>Respiratory</b>	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
<b>Skin</b>	Wear appropriate clothing to protect against repeated or prolonged skin contact.
<b>Eye</b>	If there is a risk of material entering the eye, wear eye protection to BS EN 166.

### 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](http://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.

[www.gyproc.ae](http://www.gyproc.ae)

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