



# Gyproc FireLine MR

## Product Data Sheet

### Introduction

#### Characteristics

Gyproc FireLine with water repellent additives in the core.

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

#### Applications

Used in British Gypsum partition, wall lining and ceiling systems to give increased fire protection and moisture resistance. Also used for the protection of structural steel.

#### Board colour

- Pink face paper
- Pink reverse side paper

#### Board printing

Face - FireLine MR, screw centre markings 'x'.

Edge - product code, EAN number, board thickness x width x length, edge type.

Reverse - standard and certification.

#### Board range

Width mm	Length mm	Edge type
<b>12.5mm board</b>		
		Kg/m <sup>2</sup> = 9.8 R (m <sup>2</sup> K/W) = 0.05
1200	3000	T/E
<b>15mm board</b>		
		Kg/m <sup>2</sup> = 11.7 R (m <sup>2</sup> K/W) = 0.06
1200	3000	T/E

T/E = Tapered Edge.

### Finishing

#### Board types

T/E - for taped and filled joints using Gyproc jointing materials.

Skim plastering should not normally be specified to Gyproc Moisture Resistant and MR grade boards. These types of board are intended for use in environments of higher than normal humidity. Where 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 the building envelope has been made weather-tight. Plaster should be applied only to the face of moisture resistant boards and pre-treatment with ThistleBond-it is required.

#### 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 with minimum delay.

#### Repair

**Minor damage** - Lightly sand the surface to remove burrs and fill flush with Gyproc Easi-Fill, Gyproc Easi-Fill 45, or two applications of Gyproc Joint Cement. When dry, apply Gyproc Drywall Primer or Gyproc Drywall Sealer to leave the surface ready for decoration.

**Deep indents resulting from impact** - Check the plasterboard core to ensure that it is not shattered. If intact, apply a coat of Gyproc Joint Filler, Gyproc Easi-Fill or Gyproc Easi-Fill 45, followed by the procedure for repairing minor damage as outlined previously, once set / dry.

**Damaged core and / or broken edges (non-performance situations only)** - Remove the damaged area of core. Score the liner approximately 10mm away from the sound plaster around the damaged area and peel the paper liner away. Apply Thistle GypPrime or PVA to seal the core and surrounding liner. Bulk-fill the hole with a stiff mix of Gyproc Easi-Fill, Gyproc Easi-Fill 45 or Gyproc Joint Filler, and strike off flush. Apply Gyproc Easi-Fill, Gyproc Easi-Fill 45, or two applications of Gyproc Joint Cement, once the filler is set / dry. When dry, apply Gyproc Drywall Primer or Gyproc Drywall Sealer (only suitable in non-performance situations).

**Extensive damage** - When the damage is more extensive, 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 and finish in the recommended way. Treat the finished surface with Gyproc Drywall Primer or two coats of Gyproc Sealer, if previously specified for vapour control purposes. Redecorate as required.

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 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.

Board performance

**Fire protection**

Plasterboard linings provide good fire protection due to the unique behaviour of the non-combustible gypsum core when subjected to high temperatures. The inclusion of the glass fibres and additives in the core of the Gyproc FireLine MR improves the cohesive qualities of the board and enhances the degree of fire protection. For the purposes of the national Building Regulations, plasterboard is designated a 'material of limited combustibility' (Approved Document B). The surfaces of Gyproc FireLine MR are designated Class 0 (for the purposes of national Building Regulations). Please refer to the table below.

**Fire resistance / sound insulation**

Please refer to the appropriate WHITE BOOK product or system section for information on the fire resistance and sound insulation of building elements lined with Gyproc FireLine. The substitution of Gyproc FireLine with the same thickness of Gyproc FireLine MR will not change the fire or sound insulation performance.

**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 FireLine MR - 0.24W/mK.

**Effect of temperature**

Gyproc FireLine MR is unsuitable for use in areas subject to continuously damp or humid conditions, i.e. above 70% RH unless intermittent, and must not be used to isolate dampness. Plasterboards are not suitable for use in temperatures above 49°C but can be subjected to freezing conditions without risk of damage.

**Effect of condensation**

The thermal insulation and ventilation requirements of the national Building Regulations aim to reduce the risk of condensation and mould growth in new buildings. However, designers should take care to eliminate all possibility of problems caused by condensation, particularly in refurbishment projects.

**Moisture resistance**

The total water absorption of Gyproc FireLine MR is ≤ 5% when tested in accordance with EN 520, clause 5.9.2.

**Sound absorption**

Typically  $\alpha_w = 0.05$ .

### 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 **SITE BOOK** or Manual Handling Guide, available to download from [www.british-gypsum.com](http://www.british-gypsum.com)

### 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.

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For a comprehensive and up-to-date library of information visit the British Gypsum website at: [www.british-gypsum.com](http://www.british-gypsum.com)

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