

Gyproc FireLine

INTRODUCTION

Used in Gyproc partition, wall lining and ceiling systems to provide levels of fire performance. Also used for fire protection to structural steel. Suitable for direct decoration or Gyproc plaster finish.

PRODUCT DESCRIPTION

Gyproc FireLine with increased levels of fire performance consists of an aerated gypsum core with glass fibre reinforcement and other additives encased in, and firmly bonded to, strong paper liners. Gyproc FireLine is a plasterboard that is suitable for drylining internal surfaces which can be skim plaster finished or directly decorated.

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 FireLine improves its fire protective properties when compared with standard plasterboard. For the purposes of the national Building Regulations, plasterboard is designated a 'material of limited combustibility' (Technical Guidance Document B) and is classified as a EuroClass A2 material. The surfaces of Gyproc FireLine 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 **Gyproc System Solutions** book product or systems section for information on the fire, sound and robustness performances of building elements and Gyproc systems lined with Gyproc FireLine, available to download at www.gyproc.ie.

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 + A1: 2009	Classified without further testing as A2-s1, d0.

Thermal conductivity

 Gyproc FireLine – 0.24W/mK

Effect of temperature

Gyproc FireLine 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 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.

Board colour

Pink face paper Brown reverse side paper

BOARD PERFORMANCE CONTINUED

Board printing

Face – No print.

Edge – No print

Reverse – Product information, compliance standards and certification

Board types

T/E – With Gyproc branded jointing materials used with Gyproc Paper Joint Tape

Board range

Width mm	Length mm	Edge type
12.5mm Board		
1200	2400	Kg/m ² = 11.0 R (m ² K/W) = 0.05
	2700	T/E
	3000	T/E
15mm Board		
1200	2400	Kg/m ² = 13.0 R (m ² K/W) = 0.06
	2700	T/E
	3000	T/E

T/E = Tapered Edge

APPLICATION AND 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 **Installation Guide** or Manual Handling Guide, available to download from www.gyproc.ie.

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 and finishing 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 recommended minimum of 600mm. Locate board edges to the centre line of intermediate framing where they are required for support or to maintain fixings.

Plastering

The face (pink) of Gyproc FireLine can be plastered with either Gyproc Skimcoat, Skimcoat Short Set, Carlite Finish or Carlite Ultra. There should be a minimum delay between completion of the lining and the commencement of plastering.

Jointing

Gyproc jointing materials used with Gyproc Paper Tape produce durable joint reinforcement and a smooth, continuous, crack-resistant surface ready for priming and final decoration or finish plastering. 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, i.e. Gyproc DryWall Primer or Sealer should follow with the minimum delay.

For a comprehensive and up-to-date library of information visit the Gyproc website at: www.gyproc.ie

PRODUCT STANDARDS

EN 520: 2004 + A1: 2009 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 D: Gypsum plasterboard manufactured with a controlled density, with a face to which suitable gypsum plasters or decoration may be applied. This enables improved performance in certain applications to be obtained

MAINTENANCE

Repair

Minor damage – Lightly sand the surface to remove burrs and fill flush with Gyproc Joint Filler, Gyproc Gyp Filler, 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, or Gyproc Gyp Filler, followed by the procedure for repairing minor damage as outlined above, 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 GypPrime or PVA to seal the core and surrounding liner. Bulk fill the hole with a stiff mix of Gyproc Gyp Filler, or Gyproc Joint Filler, and strike off flush. Apply Gyproc Gyp Filler, or

Gyproc Joint Filler, 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.

NB It is essential that repairs are made 'like for like'. If the finish is skim plaster, jointing materials must not be used in the repair.

www.gyproc.ie

Gypsum Industries Limited

Unit 4,
Kilcarbery Business Park,
Nangor Road,
Dublin 22
Tel: 01-629 8400
Email: enquiries@gyproc.ie

Technical Support

ROI: Free Phone: 1800 744480
NI: Free Phone: 0845 3990159
Email: tech.ie@saint-gobain.com



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