

# Gyproc FireLine DUPLEX

## Product data sheet

### Introduction

#### Characteristics

Gypsum plasterboard with glass fibre and other additives in the core backed with a vapour control layer.

Gyproc FireLine DUPLEX consists of an aerated gypsum core with glass fibre and other additives encased in, and firmly bonded to, strong paper liners and backed with a metalised polymer of polyethylene film. Gyproc FireLine DUPLEX 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 with vapour control. Also used for protection to structural steel.

#### Board colour

- Pink face paper
- Metalised polyester film reverse

#### Board printing

**Face** - screw centre markings 'x'.  
**Edge** - product code, EAN number, board thickness x width x length, edge type.

#### 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) = 0.39 <sup>‡</sup>
1200	2400	T/E

<sup>‡</sup>Including 25mm minimum air space.

T/E = Tapered Edge.

### Finishing

#### Board types

T/E - with Gyproc jointing materials for taped and filled joints or application of Thistle Board Finish or Thistle Multi-Finish plaster.

#### Plastering

The face (pink) of Gyproc FireLine DUPLEX can be plastered with either Thistle Board Finish or Thistle Multi-Finish. There should be the minimum of delay between completion of the lining and the commencing of plastering.

#### 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 the minimum delay.

#### Repair

**Minor damage** - Lightly sand the surface to remove burrs and fill flush with Gyproc Easi-Fill or 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, or Gyproc Easi-Fill or Easi-Fill 45, 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 Thistle GypPrime or PVA to seal the core and surrounding liner. Bulk fill the hole with a stiff mix of Gyproc Easi-Fill or Easi-Fill 45, or Gyproc Joint Filler, and strike off flush. Apply Gyproc Easi-Fill or 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.

**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.

## Standards

EN 14190: 2005 Gypsum plasterboard, products for reprocessing, including cutting, perforating, edge profiling, decorating and laminating membranes of other materials for functional or decorative purposes.

## 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 DUPLEX 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' (Approved Document B). The surfaces of Gyproc FireLine DUPLEX are designated Class 0 (for the purposes of national Building Regulations). Please refer to the table below.

### 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 FireLine. The substitution of Gyproc FireLine with the same thickness of Gyproc FireLine DUPLEX will not change the fire 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 14190: 2005	B-s1, d0.

### Thermal conductivity

 Gyproc FireLine - 0.24W/mK

### Effect of temperature

Gyproc FireLine DUPLEX is unsuitable for use in areas subject to continuously damp or humid conditions 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.

## 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 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.

# Gyproc FireLine DUPLEX

## Product data sheet

### Health & Safety

#### 1. Identification of the substances / preparation and company

Gyproc plasterboards

Gyproc WallBoard	Gyproc FireLine MR
Gyproc WallBoard 4TE	Gyproc HandiBoard
Gyproc WallBoard TEN	Gyproc Moisture Resistant
Gyproc WallBoard DUPLEX	Gyproc Plank
Gyproc CoreBoard	Gyproc SoundBloc
Gyproc DuraLine	Gyproc SoundBloc MR
Gyproc DuraLine MR	Gyproc SoundBloc RAPID
Gyproc FireLine	Gyproc SoundBloc RAPID MR
<b>Gyproc FireLine DUPLEX</b>	Gyproc Ergo900

Supplier	British Gypsum East Leake Loughborough Leicestershire LE12 6HX
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Telephone	08705 456123
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**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

**General composition:** 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.

DUPLEX boards are backed with a metallised polymer of polyethylene film.

#### 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 FireLine DUPLEX weights

Board	Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight tonnes
Gyproc FireLine DUPLEX	12.5	1200	2400	28.2	1.7

**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 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.

## Health & Safety (continued)

### 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	6

### 8. Exposure control / personal protection

#### Workplace exposure limit

Substance	Total inhalable	Respirable
Plaster	10mg/m <sup>3</sup> 8hr TWA	4mg/m <sup>3</sup> 8hr TWA
Quartz (silica)	–	0.1mg/m <sup>3</sup> 8hr TWA
Man Made Mineral Fibres (MMMMF)	5mg/m <sup>3</sup> 8hr TWA (gravimetric method)	–

#### 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*.

### 9. Physical and chemical properties

**Appearance** 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

Waste from gypsum plasterboard products is normally classified as 'non-hazardous, non-inert' and is fully recyclable. Please refer to the British Gypsum Plasterboard Recycling Service literature or contact the Plasterboard Recycling Customer Service Centre on 0800 6335040 for details. Other methods of disposal are available. Always seek the advice of a trained and competent professional.

### 14. Transport information

Not classified as hazardous for transportation.

### 15. Regulatory information

Not classified under the CHIP regulations.

### 16. Other information

Control of Substances Hazardous to Health Regulations  
The Manual Handling Operations Regulations  
HSE Guidance Note EH40: Workplace Exposure Limits  
Gypsum Wastes – Environment Agency Information Sheet  
The British Gypsum **WHITE BOOK**  
The British Gypsum **SITE BOOK**  
The British Gypsum website: [www.british-gypsum.com](http://www.british-gypsum.com)

#### 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 British Gypsum products should be considered. For further guidance, please refer to the Manual Handling Section of the **SITE BOOK** or the Manual Handling Guide, available to download from [www.british-gypsum.com](http://www.british-gypsum.com)

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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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