

Gyproc WallBoard

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DESCRIPTION

Gyproc WallBoard can be used to contribute to fire resistance, for sound insulation of building elements, lining ceilings, roofs and walls, for building partitions and for encasing steel columns and beams. It is suitable for direct decoration or a gypsum plaster finish.

Gyproc WallBoard consists of an aerated gypsum core encased in, and firmly bonded to strong paper liners. Gyproc WallBoard is a plasterboard that is suitable for dry lining internal surfaces. It is a standard board suitable for most applications.

Standards

Gyproc WallBoard conforms to:
BS 1230: Part 1: 1985 Specification for plasterboard excluding materials submitted to secondary operation.

All British Gypsum boards and plasters are manufactured under *BS EN ISO 9002*, a quality assurance system approved by the BSI.

Safety Data Sheets are available for all British Gypsum products. Please contact the British Gypsum Drywall Academy Advice Centre for guidance.

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. For the purposes of the national Building Regulations, plasterboard is designated a 'material of limited combustibility' (Approved Document B).

The surfaces of Gyproc WallBoard are designated Class 0 (for the purposes of national Building Regulations). Please refer to **Table 1**.

Fire resistance

Please refer to the appropriate White Book Application section, or the relevant product or systems section, for information on the fire resistance of building elements lined with Gyproc WallBoard.

Table 1 - Reaction to fire test performance

Test	Performance
<i>BS 476: Part 6: 1989 Method of test for fire propagation for products.</i>	Index of performance (I) not exceeding 12 and a sub-index (I _s) not exceeding 6.
<i>BS 476: Part 7: 1997 Surface spread of flame tests for materials.</i>	Class 1 (both sides).

EFFECT OF TEMPERATURE, THERMAL PROPERTIES AND SOUND INSULATION

Effect of temperature

Gyproc WallBoard 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.

Thermal conductivity / resistance

Conductivity (λ)

Gyproc WallBoard = 0.19 w/mk.

Resistance (R) 9.5mm (board thickness) = 0.05m²K/W.
 12.5mm (board thickness) = 0.07m²K/W.

Thermal transmittance

'U' values for a wide range of external wall constructions incorporating Gyproc WallBoard are given in the **White Book Section b01 - Introduction - Dry linings**.

Sound insulation

The sound insulation performances of various constructions using Gyproc WallBoard are given in **White Book Section a01 - Introduction - Partitions and walls** and in sections dealing with individual systems.

HEALTH AND SAFETY

Please refer to White Book Section 14 - Health and Safety before specifying, handling or installing any British Gypsum products and systems covered in this publication.

British Gypsum fully accepts its responsibilities as a supplier of building materials and systems as required by Section 6 of the Health and Safety Work Act: 1974. The designer should take full account of relevant regulations and guidance. Please refer to **Section 14 - Health and Safety**, for further details.

Safety Data Sheets for all British Gypsum products, and additional copies of **Section 14 - Health and Safety** are available to download from our website: www.british-gypsum.bpb.com, or via the British Gypsum Drywall Academy Advice Centre.

When cutting boards, power and hand tools should be used with care and in accordance with manufacturers' recommendations. Appropriate personal protective equipment should be used.

ENVIRONMENTAL

Water vapour resistance and condensation

Please refer to **White Book Section x40** - Condensation for guidance.

DESIGN CONSIDERATIONS

Gyproc WallBoard is available with a decorative face and tapered or square edges for direct decoration or a skim coat of Thistle Board Finish or Thistle Multi-Finish. Please refer to **Table 2** for guidance.

Table 2 - Gyproc WallBoard range

Width mm	Thickness mm	Length (mm)		Approx. weight kg/m ²
		Tapered edge	Square edge	
900	9.5	1800 & 2400	1800 & 2400	6.4
	12.5	1800 & 2400	1800 & 2400	8.2
	15.0	1800 & 2400	1800	9.6
1200	9.5	2400 & 2700	2400	6.4
	12.5	2250 to 3600	1800 to 3000	8.2
	15.0	2400 to 3000	2400	9.6

Please note: Some sizes of Gyproc WallBoard are also available in Duplex grades for vapour control.

INSTALLATION

General

It is important to observe appropriate Health and Safety legislation when working on site, i.e. 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.

Cutting

Gyproc WallBoard may be cut using a wallboard saw or by scoring with a sharp knife, 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.

Installation

For information on fixing Gyproc WallBoard, please refer to the appropriate White Book Sections and the British Gypsum SiteBook.

FINISHING

Jointing

For joint treatment of tapered edge Gyproc WallBoard please refer to **White Book Section n15** - Jointing.

Decoration

After the joint treatment has dried, decoration including any decorator's preparatory work, should follow with the minimum of delay. Please refer to **White Book Section n30** - Decorative effects for guidance.

Plastering

The front (ivory) face of Gyproc WallBoard 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 commencement of the plastering. Please refer to **White Book Section b05** - Plaster systems.

The installation and finishing should be carried out in accordance with the recommendations contained in current British Gypsum literature.

OPERATION, MAINTENANCE

If a board is damaged, it should be repaired or replaced as described in **White Book Section 9** - Board finishing. Please note that to maintain fire performance, the edges of the repair patch should be fixed in a manner equivalent to the original specification. Where this is impractical, it is strongly recommended that the board be completely replaced.

Gypframe, Gyproc, Glasroc, Thistle, Arteco and Rawl are all registered trade names of BPB United Kingdom Limited. Isowool is a registered trade name of British Gypsum-Isover Ltd, a joint venture between the insulation division of British Gypsum and Isover Saint-Gobain.

British Gypsum reserves the right to revise product specification without notice. The information given is correct to the best of our knowledge at the time of publication, but it is the users responsibility to ensure it remains current prior to use. The enclosed information should not be read in isolation as it is meant only as guidance for the customer, who should always ensure that they are fully conversant with the products and systems being used and their subsequent installation prior to the commencement of a job. We advise that you read and familiarise yourself with all the information contained in this literature prior to the commencement of the work or specification. For further details please refer to our Health and Safety Handling Data Sheet which is available on request.

For a comprehensive and up to date library of information visit our website at: www.british-gypsum.bpb.com

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