

Gyproc ThermaLine BASIC

Product data sheet

Introduction

Characteristics

Gyproc WallBoard factory-bonded to an expanded polystyrene insulant that is both CFC and HCFC-free - meaning zero ODP (Ozone Depletion Potential). An optional vapour check grade is available (standard for 50mm product) to reduce the risk of condensation.

Gyproc WallBoard consists of an aerated gypsum core encased in, and firmly bonded to, strong paper liners. The expanded polystyrene insulant is then further bonded to the finished plasterboard. Gyproc WallBoard is a plasterboard that is suitable for drylining internal surfaces.

Applications

Can be used in both refurbishment and new-build where a basic level of additional thermal insulation is required.

Board colour

- ☐ Ivory face paper
- ☐ White coloured expanded polystyrene backing

Board printing

Face - screw centre markings 'x'.
Edge - product code, EAN number, board thickness x width x length, edge type.
Reverse - none.

Board range

Width mm	Length mm	Edge type
22mm board		
		Kg/m ² = 6.5 R (m ² K/W) = 0.35
1200	2400	T/E
30mm board		
		Kg/m ² = 7.2 R (m ² K/W) = 0.55
1200	2400	T/E
40mm board		
		Kg/m ² = 8.1 R (m ² K/W) = 0.80
1200	2400	T/E
50mm board¹		
		Kg/m ² = 9.0 R (m ² K/W) = 1.05
1200	2400	T/E

¹ With integral vapour check

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 (ivory) 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 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 520: 2004 Gypsum Plasterboards, definitions, requirements and test methods

Type 1: Gypsum wallboard.

Linings to walls, ceilings and partitions to receive decoration.

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

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)
BS EN 13950 (2005)	Classified without further testing as B-s1, d0.

Thermal conductivity

 Gyproc WallBoard = 0.19W/mK

 BASIC expanded polystyrene = 0.040W/mK

Ozone Depletion Potential (ODP)

Zero

Global Warming Potential (GWP)

<5

Effect of temperature

Gyproc ThermalLine BASIC 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. For further information please refer to **WHITE BOOK** section 2.3 - Thermal insulation and condensation.

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

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 ThermaLine BASIC

Product data sheet

Health & Safety

1. Identification of the substances / preparation and company

Gyproc thermal laminates

Gyproc TriLine
Gyproc ThermaLine PLATINUM

Gyproc ThermaLine BASIC

Gyproc ThermaLine PLUS
Gyproc ThermaLine SUPER

Supplier British Gypsum
East Leake
Loughborough
Leicestershire
LE12 6HX

Telephone 08705 456123

Recommended uses: Gyproc thermal laminates are used as thermal or sound insulation internal linings in buildings.

2. Composition / information on ingredients

General composition: Calcium sulphate dihydrate encased in paper liners with a thermal laminate bonded to the back. Natural plasterboard constituents may include clay and minor amounts of quartz. Small quantities of chopped glass fibre, microsilica and vermiculite may be added, with starch, foam and dispersants.

Gyproc ThermaLine PLATINUM and Gyproc ThermaLine BASIC have an expanded polystyrene laminate.

The vapour check grade of Gyproc ThermaLine PLATINUM and Gyproc ThermaLine BASIC incorporates a polyethylene coated craft paper.

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.

The laminates Gyproc ThermaLine SUPER may abrade and Gyproc TriLine may irritate when handling.

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.

The flame retarded insulating plastics are combustible if exposed to a sustained source of ignition. The flammability hazard increases when it is in dust form.

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.

Fixers must work from an independent support system.

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 ThermaLine BASIC weights

Board	Board thickness mm	Board width mm	Board length mm	Board weight kg	Pallet weight tonnes
Gyproc Therma-Line BASIC	22	1200	2400	18.7	0.8
	30	1200	2400	20.7	0.7
	40	1200	2400	23.3	0.5
	50	1200	2400	25.9	0.5

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 ³ 8hr TWA	4mg/m ³ 8hr TWA
Quartz (silica)	–	0.1mg/m ³ 8hr TWA
Man Made Mineral Fibres (MMMF)	5mg/m ³ 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 <i>EN 149 FFP2</i> .
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 <i>BS EN 166</i> .

9. Physical and chemical properties

Appearance	Flat sheet boards in different widths and thicknesses, with a square or tapered edge.
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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

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

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British Gypsum reserves the right to revise product specifications without notice. The information in this document was correct to the best of our knowledge at the time of publication. It is the user's responsibility to ensure that it remains current prior to use. The information in this document is for guidance only and should not be read in isolation. Users should read and familiarise themselves with all the information contained in this document and ensure that they are fully conversant with the products and systems being used, before subsequent specification or installation.

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

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