

Product Data Sheet

Gyproc® ThermaLine PIR 53mm

Gyproc ThermaLine PIR 53mm is a gypsum plasterboard with vapour control layers bonded to high performance polyisocyanurate foam insulant to reduce the risk of condensation.

Where to use

Use it in refurbishment and new build for walls, ceilings and room in the roof where a high level of cost effective thermal insulation is required to reduce heat loss from buildings.



Product information

Composition

This plasterboard is made from Gyproc WallBoard 12.5mm bonded to a rigid polyisocyanurate foam (PIR) with a multi-layer kraft aluminium facer on both sides of the insulation foam.

Colour

Face colour: Ivory.

Colour of insulation: Yellow polyisocyanurate foam with ivory paper coating.

Where to buy

[Click here.](#)

DIMENSIONS AND WEIGHTS

PRODUCT SIZES (mm)	1200 X 2400
Nominal thickness (mm)	53
Minimum weight (kg/m ²)	10.2
Edge options	Tapered edge
Maximum width tolerance (mm)	+2
Minimum width tolerance (mm)	-4
Maximum length tolerance (mm)	+6
Minimum length tolerance (mm)	-5
Number of tapered edges	2
Maximum taper width (mm)	80
Minimum taper width (mm)	40
Maximum taper depth (mm)	2.5
Minimum taper depth (mm)	0.6
Average thickness tolerance: maximum (mm)	+3
Average thickness tolerance: minimum (mm)	-3

NB: Dimensional tolerances. Quality controls are set to meet customer requirements between these maximum and minimum tolerances.

Product Data Sheet

Gyproc® ThermaLine PIR 53mm

Performance

Here we only provide performance information related to the product. Please see the White Book for system-dependent performance.

Standards

EN 13950:2014.

BBA: 13/5016.

Reaction to fire	B-s1, d0
Thermal resistance (m ² K/W)	1.85
Water vapour permeability (μ)	845
Maximum continuous temperature exposure (°C)	49
Flexural strength to EN13950	Pass

Installation

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.

Cutting

Cut with a plasterboard saw. Holes for socket boxes etc. should be cut using a utility saw.

Screw fixing

Fix the boards with the decorative side facing outwards to receive finishes. Install the fixings at least 13mm from the cut edges and 10mm from the bound edges. Position cut edges at internal angles wherever possible.

Adhesive fixing

Fix the boards with the decorative side facing outwards to receive finishes. Install using Gyproc DriWall Adhesive, following the application instructions for DriLynr Dab system. Insert two British Gypsum Nailable Plugs at mid-height (one per long board edge) as a secondary mechanical fixing.

Finishing

After fixing the board, start finishing it as soon as you can to limit the risk of damage or UV degradation to the paper liner.

Plastering

You can finish the board using Thistle® or ThistlePro® plaster.

Jointing

You can finish the board using Gyproc jointing products.

Painting

Decoration should start as soon as possible after the finishing system is dry. Jointing systems should be finished with Gyproc Drywall Primer before painting.

Wallpapering

Decoration should start as soon as possible after the finishing system is dry. Jointing systems should be finished with Gyproc Drywall Sealer before application of wallcoverings.

Snagging and minor repairs

For minor damage and dents, check that the board core isn't shattered. If it's intact, fill the damaged area with Gyproc EasiFill 60, allow it to set, then apply a second coat if you need to. When it's dry, sand it to a finish before redecorating the area.

For a damaged core, broken edges or extensive damage, repair and replacement procedures differ depending on the number of board layers and fire resistance of the system; please contact our Technical Support Team for specific advice.

Product Data Sheet

Gyproc® ThermaLine PIR 53mm

Sitework

Storage

To ensure declared performance of plasterboards are not compromised they should be stored inside and kept dry. Make sure floor or ground surfaces are flat and strong enough to support them.

If plasterboards are temporarily stored outside, they should be kept clear of the ground and securely covered with an anchored polythene sheet or tarpaulin to protect from dampness and rain.

Handling

British Gypsum fully accepts its responsibilities as a supplier of building materials and systems as required by Section 6 of the Health and Safety at Work etc. Act 1974.

To reduce manual handling risk, employers and workers should follow HSE's Manual Handling Operations Regulations 1992 (MHOR) and the HSE's guidance on manual handling at work (INDG143). Employers should carry out a risk assessment and implement control measures to avoid or minimise the need for manual handling. Workers should follow safe lifting and moving techniques and report any hazards. The 'Manual Handling Guide' published by the Gypsum Products Development Association (GDPA) and its member companies can provide additional plasterboard specific guidance and is available on the GDPA website.

Plasterboard handling should be assessed for risk before lifting or carrying. All British Gypsum plasterboards have safety information printed on the board. Where mechanical aids are available, they should be considered in the overall risk assessment.

Safety Data Sheet

Safety Data Sheet (SDS) available. [Click here.](#)

Packaging overview

Supplied on a reusable wooden pallet.

Environmental

Recyclability

You can recycle the plasterboard element of this product as long as it has minimal contamination from non-gypsum materials and is segregated from the insulant.

Small quantities of the laminated product may be accepted within gypsum recycling, please check with the recycler.

Disposal

Segregate boards from non-gypsum waste for recycling where possible. Dispose of them according to local authority requirements.

BES 6001 classification

Excellent.



"Gyproc", "Thistle", "ThistlePro", "Gypframe" and "Glasroc" are all registered trademarks of Saint-Gobain Construction Products UK Limited. "Isover" is a registered trademark of Saint-Gobain Isover (French legal entity) and "Okarno" is a registered trademark of Okarno Limited.

Saint-Gobain Construction Products UK Limited is a limited company registered in England under company number 734396, having its registered office at Saint-Gobain House, East Leake, Loughborough, Leicestershire, LE12 6JU, UK. Saint-Gobain Construction Products UK Limited trades as British Gypsum for part of its business activities.

British Gypsum reserves the right to revise product specification without notice. The information herein should not be read in isolation as it is meant only as guidance for the user, 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 work. For a comprehensive and up-to-date library of information visit the British Gypsum website at: british-gypsum.com. For information about products supplied by Okarno Limited or Saint-Gobain Isover please see their respective websites.

"British Gypsum" is a registered trademark of Saint-Gobain Construction Products UK Limited.