

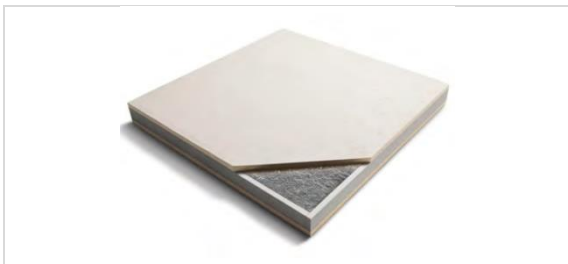
Introduction

Polyroof Vacuum Insulated Panel (VIP) Insulation is an ultra-thin insulation board, composed of a vacuum insulated panel core encased in a tough, high density PIR shell.

Key Features

- Ideal for balcony applications.
- Ultra-Thin for limited upstand heights.
- Exceptional thermal performance (Lamda 0.008 W/mK).
- For adhesive bonding.
- Bespoke VIP scheme prepared for each project.
- Tough, high-density shell protects inner vacuum core.
- Compatible with Polyroof’s range of insulated fillets.
- Can be used as part of a multi-layer insulation or ‘cut to falls’ schemes.

Product Information



Polyroof VIP Cut-to-Falls Insulation

Incorporated flat vacuum insulated panels (VIP) within adhered insulation to achieve stringent U-Values ideal for height restricted schemes,

An individual quotation is issued for each project, please contact the Polyroof Technical Sales office for details.

Compatible Polyroof Systems

Compatible with Polyroof’s range of insulated fillets. An individual quotation is issued for each project, please contact the Polyroof Technical Sales Office for details. Longer lead times will apply

Product Usage

Polyroof VIP Insulation is intended for applications with limited upstand heights, such as on balconies or roofs where low upstands exist. Because of its exceptional thermal performance, the board is suitable for projects for which an exceptionally low U-Value is required.

As the VIP core is protected by a high density PIR board, the risk of damage, from which unprotected VIP panels commonly suffer, is greatly reduced.

Technical Data

Characteristic	Value
Compressive strength	≥150 kPa
Dimensional stability under conditions: 48 hours at 70°C ; 90% RH	-

Thermal Properties / U-Values

With a Lamda value of 0.008 W/mk, Polyroof VIP Insulation can achieve exceptionally low U-values.

The table below is for guidance only. This is based on a typical concrete or timber deck, with a plasterboard ceiling. Polyroof will produce a bespoke VIP scheme and U-Value calculation for each project based on surveys or drawings. Contact Polyroof Technical Services for more details.

NB: Polyroof VIP Insulation may be used in conjunction with Polyroof Tissue-Therm Insulation, as part of a multi-layer scheme; and can also be used as part of a ‘cut to falls’ scheme. Consult Polyroof Technical Services for further guidance.

Insulation	Typical U Value (W/m²K)
45mm Polyroof VIP Insulation	0.24
60mm Polyroof VIP Insulation	0.17
90mm Polyroof VIP Insulation (2 x 45mm)	0.13
120mm Polyroof VIP Insulation (2 x 60mm)	0.09

Preparation and Installation

For guidance concerning installation please consult Polyroof Technical Services.

Storage and Handling

Polyroof VIP insulation boards must be protected from prolonged exposure to sunlight and stored dry, flat and ideally raised above ground level. Where possible, packs should be stored inside. If stored outside, they should be under a suitable cover.

Health and Safety

Safety Data Sheets available on request.

Technical Assistance

For further information, please contact Polyroof Technical Services on 0800 801 890, More information can also be found at www.polyroof.co.uk.