

Eurothane GP PIR Insulation Board Underfloor Insulation

Product Technical Statement (v1.0, December 2018)



Product Description

Eurothane GP is a general purpose rigid polyisocyanurate (PIR) closed cell foam board, faced on both sides with a multi-layer coated aluminium foil.

Eurothane GP is CFC and HCFC-free, i.e. zero ozone depletion potential (ODP). It is a pentane-blown polyisocyanurate foam which results in a global warming potential (GWP) of below 5 and an overall 'A' Rating in the Green Specification Guide.

It has an exceptionally low thermal conductivity of 0.022 W/mK.

It does not degrade if exposed to moisture, is rot-proof and the boards have a high resistance to the passage of moisture vapor so reduce the risk of condensation.

It is lightweight and is easily cut using a knife or fine-toothed saw. Eurothane GP has a high compressive strength of 140 kPa and high R-values, as per the table below.

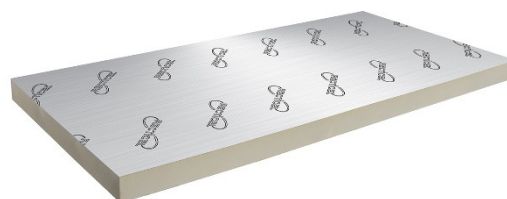
The boards measure 2400mm x 1200mm and are available in the thicknesses below.

THICKNESS	R-VALUE
25mm	1.10
40mm	1.80
50mm	2.25
60mm	2.70
70mm	3.15
75mm	3.40
90mm	4.05
120mm	5.45

Scope of Use

Eurothane GP PIR is suitable for use in any type of residential, commercial or industrial building and can be used for both new builds and retrofit projects. As underfloor insulation it is well suited for use:

- As inground under slab insulation;
- Insulating on top of the slab;
- Insulating timber floors;
- Insulating intermediate floors;
- With underfloor heating systems;
- As slab edges insulation or room perimeters;
- Under floating timber floors.



Company Contact Details



Brand: Recticel GP insulation board

Company: The Alternative Energy Company Ltd

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Limitations: Eurothane GP should be covered with a thin damp-proof membrane before wet concrete is laid over the insulation.

Conditions

This PTS must be read in conjunction with the floor installation guide. Please see the Design, Construction and Installation Instructions section below for the website link.

New Zealand Building Code (NZBC)

Eurothane GP PIR will, if employed in accordance with the supplier's installation requirements, satisfy the following clauses of the Building Code:

B2 Durability: Performance B2.3.1(a)

C2 Prevention of Fire Occurring. C.VM2, A1.7

E3 Internal moisture: Performance E3.3.1

F2 Hazardous building materials: Performance F2.3.1

H1 Energy efficiency: Performance H1.3.1(a), H1.3.2E

Evidence

Eurothane GP PIR is an Acceptable Solution in terms of compliance with the New Zealand Building Code, as per the clauses noted in the section above.

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

- AS/NZS 4859.1.2002. Eurothane GP PIR has been determined to meet AS/NZS 4859.1.2002 (New Zealand Standard for Materials for Thermal Insulation of Buildings) which is an acceptable method.
<https://insulation.kiwi.nz/wp-content/uploads/2018/06/conformity-to-as-nzs-4859.1.2002.pdf>
- British Board of Agrément (BBA) Certificate 02/3905. Only products that have passed a series of comprehensive assessments, laboratory test, on-site evaluations, and quality management checks are awarded an Agrément certificate. <https://insulation.kiwi.nz/wp-content/uploads/2018/06/recticel-bba-02-3905-eurothane-gp-floor.pdf>
- Recticel's Declaration of Performance No 64054-a-CPR_2017.06.1 for product IR PIR 022.
<https://insulation.kiwi.nz/wp-content/uploads/2018/06/recticel-declaration-of-performance.pdf>
- Fire Performance Class 1 BS 476 (part 7).

Design, Construction and Installation Instructions

This PTS must be read in conjunction with the relevant installation guide. Refer to the following website link then navigate to the appropriate section for the three installation guides for roof, wall and floor applications.

<https://www.insulation.kiwi.nz/installation-roof>

Quality Assurance

Eurothane GP PIR is manufactured to the highest standards and certified under the following management systems:

ISO 14001:2015 Environmental Management System

https://insulation.kiwi.nz/wp-content/uploads/2018/08/ISO-14001-2015-Certificate-of-approval_UK-2.pdf

https://insulation.kiwi.nz/wp-content/uploads/2018/08/ISO-14001-2015-Certificate-of-approval_Belgium.pdf

ISO 9001:2015 Quality Management System

<https://insulation.kiwi.nz/wp-content/uploads/2018/11/Recticel-ISO-9001-certificate-2015-exp-Oct-2020.pdf>

BBA 02/3905 Eurothane GP (floor)

<https://insulation.kiwi.nz/wp-content/uploads/2018/06/recticel-bba-02-3905-eurothane-gp-floor.pdf>

Recticel 10 year Product Warranty

<https://insulation.kiwi.nz/wp-content/uploads/2018/06/recticel-product-warranty-ten-years.pdf>

Declaration of Performance EN13165-2012

<https://insulation.kiwi.nz/wp-content/uploads/2018/06/recticel-declaration-of-performance.pdf>

Recticel Eurothane GP Technical Specification

<https://insulation.kiwi.nz/wp-content/uploads/2018/06/eurothane-gp-tech-sheet.pdf>