

POWERDECK U is a high performance, rigid PIR board for use in warm flat roofs with hot applied waterproofing systems* (including torch-on) and any bitumen compatible single-ply membrane system.

Product Overview

- High performance, rigid PIR insulation
- 0.024 W/mK lambda**
- High compression strength
- Manufactured using a blowing agent with zero ODP (Ozone Depletion Potential) and low GWP (Global Warming Potential)



For Flat Roofs



Lightweight Board



Easy Handling and Installation



ISO 9001 and ISO 14001



Moisture Tolerant

NBS Clauses

Details also available in NBS Plus. NBS users should refer to clause(s): J21/10, 420; J41/10, 420; J42/10, 420

Introduction

POWERDECK U is a high performance, rigid PIR board for use in warm flat roofs with hot applied waterproofing systems* (including torch-on) and any bitumen compatible single-ply membrane system.

High compression strength and excellent dimensional stability ensures the board benefits from the flat surface finish required to ensure optimum performance.

POWERDECK U is lightweight, easy to cut, handle and install and is also available in tapered forms to assist roof drainage.

With POWERDECK U, you are specifying a board that:

- ⚠ Has a low thermal conductivity value (0.024 W/mK)**, providing an excellent thermal performance.
- ⚠ When tested in accordance with BS 476-3:2004 and CEN/TS 1187:2012 achieved an EXT.FAC rating.
- ⚠ Compression strength exceeds 150kPa at yield.
- ⚠ Will not degrade or deteriorate if exposed to moisture, therefore maintaining its thermal performance.

Applications

- ⚠ Warm flat roofs under:
 - torch-on bituminous waterproofing systems.
 - mastic asphalt.*
 - built-up felt.
 - bitumen compatible single-ply waterproofing systems.

Installation Guidelines

For full details of the installation of POWERDECK U, please refer to the applications pages of the Specifier's Guide.

See applications section for installation and handling.



*Please see Recticel installation guide for full details **Thickness dependent

Continued overleaf...



POWERDECK U Thermal Resistances

Product Code	Thickness (mm)	R-value (m ² K/W)
64602/001	30	1.15
64602/015	40	1.50
64602/016	50	1.90
64602/017	60	2.30
64602/018	70	2.65
64602/019	80	3.20
64602/020	90	3.60
64602/021	100	4.00
64602/023	120	5.00
64602/024	130	5.40
64602/025	140	5.80
64602/026	150	6.25

Product Details

Thermal Conductivity	0.024 W/mK (thicknesses 120mm and above) 0.025 W/mK (thicknesses between 80mm and 119mm) 0.026 W/mK (thicknesses below 80mm)
Compression Strength	Exceeds 150kPa at yield
Moisture Vapour Resistance	Installed value of 15 MNs/g
Fire Performance	Class 1 BS 476 (Part 7)
Dimensions	1200mm (l) x 600mm (w)
Facing	Bitumen glass fleece on both sides.

Sustainable Solutions

Recticel POWERDECK U has been designed and manufactured to result in the lowest environmental impact. This drives our 'A rating' in the BRE Green Guide 2008 under element number 1415320205. POWERDECK U has a zero ODP (Ozone Depletion Potential) and a GWP (Global Warming Potential) rating of below 5.

Specification Clause

The insulation shall be Recticel POWERDECK U ____mm thick for use in torch-on, built-up felt, mastic asphalt and bitumen compatible single-ply membrane flat roofing applications, manufactured in accordance with an ISO 9001 quality management system and an ISO 14001 environmental management system. It should comprise a rigid polyisocyanurate (PIR) core faced on both sides with a bituminous glass fleece. The product should have a GWP of below 5, zero ODP and achieve a CE marking compliance to BS EN 13165. POWERDECK U should be installed in accordance with Recticel's recommendations.

Typical U-values

U-values will vary depending on application and construction. To obtain a calculation under the BBA Competent Person Scheme, email technicalservices@recticel.com

Contact Details

Technical Desk

For all technical enquiries or requests for product support, please contact:

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