

# POWERDECK® F



POWERDECK F is a durable, market-leading PIR insulation board for built-up felt, mastic asphalt and single-ply membrane waterproofing systems.

## Product Overview

- Durable, market-leading PIR insulation
- 0.024\* W/mK lambda
- LPCB LPS 1181 approved
- High compression strength
- Low Global Warming Potential
- Zero Ozone Depletion 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

\*thickness dependent

## Introduction

POWERDECK F is a durable, market-leading PIR insulation board for built-up felt, mastic asphalt and single-ply membrane waterproofing systems.

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

With POWERDECK F, 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 that exceeds 150kPa at yield and is suitable for loads associated with maintenance traffic on roofing systems.
- Is available in a range of thicknesses from 25mm – 160mm and in a board size of 1200mm x 600mm.
- Will not degrade or deteriorate when exposed to moisture, therefore maintaining its thermal performance.

## Applications

- Warm flat roofs under:
  - built-up felt.
  - single-ply waterproofing systems.
  - mastic asphalt.

## Installation Guidelines

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

See applications section for installation and handling.



Continued overleaf...

## POWERDECK F Thermal Resistances

| Product Code | Thickness (mm) | R-value (m²K/W) |
|--------------|----------------|-----------------|
| 64004/049    | 25             | 0.96            |
| 64004/001    | 30             | 1.15            |
| 64004/002    | 40             | 1.50            |
| 64004/003    | 50             | 1.90            |
| 64004/004    | 60             | 2.30            |
| 64004/009    | 70             | 2.65            |
| 64004/005    | 80             | 3.20            |
| 64004/010    | 90             | 3.60            |
| 64004/006    | 100            | 4.00            |
| 64004/034    | 110            | 4.40            |
| 64004/007    | 120            | 5.00            |
| 64004/038    | 130            | 5.40            |
| 64004/008    | 140            | 5.80            |
| 64004/036    | 150            | 6.25            |
| 64004/039    | 160            | 6.65            |

## 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) Available as tapered insulation board.                                                                |
| Facing                     | Perforated mineral coated glass fibre tissue to both sides.                                                                  |
| Certification              | LPCB (LPS 1181) approved                                                                                                     |

## Sustainable Solutions

Recticel POWERDECK F 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 815320017. POWERDECK F 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 F \_\_\_\_mm thick for use in built-up felt, mastic asphalt and 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 be LPCB approved and comprise a rigid polyisocyanurate (PIR) core faced on both sides with a perforated mineral coated glass fleece. The product should have a GWP of below 5, a zero ODP and achieve a CE marking compliance to BS EN 13165. POWERDECK F 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](mailto:technicalservices@recticel.com)

## Contact Details

### Technical Desk

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

### Freephone

0800 0854079

### Email

[technicalservices@recticel.com](mailto:technicalservices@recticel.com)

### Online

For further information visit [www.recticelinsulation.co.uk](http://www.recticelinsulation.co.uk)

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INSULATION EXCELLENCE

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Recticel Insulation Limited reserves the right to amend product specifications without prior notice. E.&O.E

