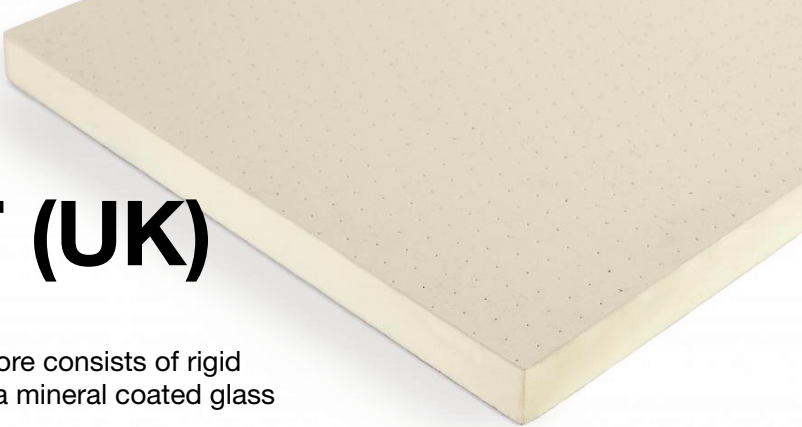




# Powerdeck® F (UK)

Powerdeck F (UK) is a thermal insulation board. Its core consists of rigid polyisocyanurate PIR foam. The board is faced with a mineral coated glass fleece on both sides.



## Application(s)

Thermal insulation used in warm flat roofs. The board can be used in mechanical fixed and adhered systems in appropriate build-ups combined with bituminous and single-ply waterproofing systems.

## Board

Description	Value	Unit	Tolerances	Standard
<b>Dimensions</b>				
Length	600, 1200, 2400	mm		
Width	1200	mm		
Thickness range	30 - 160	mm	T2	EN 823
Density (core volume weight)	± 30	kg/m <sup>3</sup>		
<b>Appearance</b>				
Facing	Mineral coated glass fleece on both sides			
Edge finishing	Straight edges			

## Essential Characteristics

Description	Standard	EN code	Value	Unit
<b>Thermal conductivity (declared value)</b>				
≥ 120 mm	EN 13165	λ <sub>D</sub>	0.024	W/m.K
80 – 119 mm	EN 13165	λ <sub>D</sub>	0.025	W/m.K
≤ 79 mm	EN 13165	λ <sub>D</sub>	0.026	W/m.K
<b>Mechanical properties</b>				
Compressive stress or compressive strength at 10% deformation	EN 826	CS(10/ Y)150	≥150	kPa
Dimensional stability under specified temperature and humidity conditions				
48 hrs 70°C, 90% RH	EN 1604	DS(70,90)3		
48 hrs -20°C	EN 1604	DS(-20,-)1		

Care has been taken to ensure that the content of this document is as accurate as possible. Please note that technical specifications may vary from country to country. Recticel Insulation does not accept any liability for clerical errors and reserves the right to amend information without prior notice. This document does not create, specify, modify or replace any new or prior contractual obligations agreed upon in writing between Recticel Insulation and the user. An older version of this technical datasheet can be requested via [technicalservices@recticel.com](mailto:technicalservices@recticel.com) in case required.

### Recticel Insulation

Enterprise Way, Whittle Road, Meir Park, Stoke-on-Trent, Staffordshire, ST3 7UN, UK

[www.recticelinsulation.com](http://www.recticelinsulation.com)

FEEL  
GOOD  
INSIDE

**RECTICEL**  
insulation

# Powerdeck<sup>®</sup> F (UK)

Deformation under specified compressive load and temperature conditions	EN 1605	DLT(2)5	≤5	%
Tensile strength perpendicular to faces	EN 1607	TR80	≥80	kPa
<b>Fire behaviour</b>				
Reaction to fire (product as such)	EN 13501-1	Euroclasse	F	
<b>Hygrometric properties</b>				
Water vapour diffusion coefficient (tabulated value)	EN ISO 10456	μ	50-100	
Water absorption				
Long term water absorption by total immersion	EN 12087	WL(T)2	≤2	vol-%

## Insulation Values

Thickness (mm)	λ <sub>D</sub> -value (W/mK)	R <sub>D</sub> -value (m <sup>2</sup> K/W)
30	0.026	1.15
40	0.026	1.50
50	0.026	1.90
60	0.026	2.30
70	0.026	2.65
80	0.025	3.20
90	0.025	3.60
100	0.025	4.00
110	0.025	4.40
120	0.024	5.00
130	0.024	5.40
140	0.024	5.80
150	0.024	6.25
160	0.024	6.65

## Standards & Certificates

### Standards

Product standard	EN 13165:2012 + A2:2016
Production	ISO 9001:2015

Care has been taken to ensure that the content of this document is as accurate as possible. Please note that technical specifications may vary from country to country. Recticel Insulation does not accept any liability for clerical errors and reserves the right to amend information without prior notice. This document does not create, specify, modify or replace any new or prior contractual obligations agreed upon in writing between Recticel Insulation and the user. An older version of this technical datasheet can be requested via [technicalservices@recticel.com](mailto:technicalservices@recticel.com) in case required.

### Recticel Insulation

Enterprise Way, Whittle Road, Meir Park, Stoke-on-Trent, Staffordshire, ST3 7UN, UK

[www.recticelinsulation.com](http://www.recticelinsulation.com)

FEEL  
GOOD  
INSIDE

**RECTICEL**  
insulation

# Powerdeck<sup>®</sup> F (UK)

Environmental management ISO 14001:2015

## Certificates

BBA 13/5045 (30-160mm)

LPCB

## Other / Miscellaneous

### Production plant

Stoke-on-Trent Enterprise Way, Meir Park, Stoke-on-Trent, ST3 7UN

### Storage/handling

Stock dry and protected from direct sunlight

Care has been taken to ensure that the content of this document is as accurate as possible. Please note that technical specifications may vary from country to country. Recticel Insulation does not accept any liability for clerical errors and reserves the right to amend information without prior notice. This document does not create, specify, modify or replace any new or prior contractual obligations agreed upon in writing between Recticel Insulation and the user. An older version of this technical datasheet can be requested via [technicalservices@recticel.com](mailto:technicalservices@recticel.com) in case required.

## Recticel Insulation

Enterprise Way, Whittle Road, Meir Park, Stoke-on-Trent, Staffordshire, ST3 7UN, UK

[www.recticelinsulation.com](http://www.recticelinsulation.com)

FEEL  
GOOD  
INSIDE

