



# Powerdeck® F

Powerdeck® F (UK) is a thermal insulation board for use in warm flat roofs under built-up felt, mastic asphalt and single-ply waterproofing systems.

## Application(s)

Thermal insulation for flat roofs under built-up felt, mastic asphalt and single-ply membrane waterproofing systems.

## Board

Description	Value	Unit	Tolerances	Standard
Dimensions				
Length	600	mm		25mm – 160mm
	1200	mm		20mm – 30mm
	1200	mm		25mm – 150mm
Width	1200	mm		
Thickness	30 - 160	mm	T2	EN 823
Density (core volume weight)	± 30	kg/m <sup>3</sup>		
<b>Appearance</b>				
Facing	Mineral coated glass fleece			
Edge finishing	Straight			

## 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/mK
80 – 119 mm	EN 13165	λ <sub>D</sub>	0.025	W/mK
≤ 79 mm	EN 13165	λ <sub>D</sub>	0.026	W/mK
<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		

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### Recticel Insulation

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

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

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48 hrs -20°C	EN 1604	DS(-20)1		
Deformation under specified compressive load and temperature conditions	EN 1605	DLT(2)5	≤5	% of deformation
Tensile strength perpendicular to faces	EN 1607	TR80	≥80	kPa
Fire behaviour				
Reaction to fire (product as such)	EN 13501-1	Euroclass	F	
Hygrometric properties				
Water vapour diffusion resistance factor (Tabulated value)	EN ISO 10456	μ	50-100	
Water absorption				
<b>long term water absorption by total immersion</b>	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

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Product standard	EN 13165:2012 + A2:2016
Production	ISO 9001:2015
Environmental management	ISO 14001:2015

## Certificates

BBA	13/5045
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## Other / Miscellaneous

### Production Plant

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