



# Powerdeck<sup>®</sup> U

Powerdeck<sup>®</sup> U is a thermal insulation board for use in warm flat roofs under bituminous torch-on waterproofing systems

## Application(s)

Thermal insulation for flat roofs under bituminous torch-on waterproofing systems

## Board

Description	Value	Unit	Tolerances	Standard
<b>Dimensions</b>				
Length	1200	mm		
Width	600	mm		
Thickness	20 - 160	mm	T2	EN 823
Density (core volume weight)	± 30	kg/m <sup>3</sup>		
<b>Appearance</b>				
Facing	Bitumen 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		
48 hrs -20°C	EN 1604	DS(-20)1		

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### Recticel Insulation

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[www.recticelinsulation.co.uk](http://www.recticelinsulation.co.uk)

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Deformation under specified compressive

load and temperature conditions

EN 1605 DLT(2)5 ≤5

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  $\mu$  50 - 100

Water absorption

**short term water absorption**

NPD

long term water absorption by partial immersion

NPD

long term water absorption by total immersion

EN 12087 WL(T)2 ≤2 vol-%

## Insulation Values

**Thickness (mm)**

**$\lambda_D$ -value (W/mK)**

**$R_D$ -value (m<sup>2</sup>K/W)**

20	0.026	0.75
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
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
<b>Certificates</b>	
BBA	13/5045

## Other / Miscellaneous

### Production Plant

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