



Powerdeck® U

Powerdeck® 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
Dimensions				
Length	1200	mm		
Width	600	mm		
Thickness	20 - 160	mm	T2	EN 823
Density (core volume weight)	± 30	kg/m ³		
Appearance				
Facing	Bitumen coated glass fleece			
Edge finishing	Straight			

Essential Characteristics

Description	Standard	EN code	Value	Unit
Thermal conductivity (declared value)				
≥ 120 mm	EN 13165	λ _D	0.024	W/mK
80 – 119 mm	EN 13165	λ _D	0.025	W/mK
≤ 79 mm	EN 13165	λ _D	0.026	W/mK
Mechanical properties				
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

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

μ

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)	λ _D -value (W/mK)	R _D -value (m²K/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

Certificates

BBA	13/5045
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Other / Miscellaneous

Production Plant

Recticel Insulation	Enterprise Way, Whittle Rd, Meir Park, Stoke-on-Trent, StaffordshireST3 7UN
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