powerdeck® u



Powerdeck U is a thermal insulation board. Its core consists out of rigid polyisocyanurate PIR foam. The board is faced with a bituminous 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
Dimensions				
Length	1200	mm		
Width	600	mm		
Thickness range	20 - 160	mm	T2	EN 823
Density (core volume weight)	± 30	kg/m³		
Appearance				
Facing	Bituminous coated glass fleece on both sides.			
Edge finishing	Straight edges			

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	0.027	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		
Deformation under specified compressive load and				

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

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temperature conditions				
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	Euroclasse	F	
Hygrometric properties				
Water vapour diffusion coefficient (tabulated value)	EN150 10456	μ	50 - 100	
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	0.027	0.70
30	0.027	1.10
40	0.027	1.45
50	0.027	1.85
60	0.027	2.20
70	0.027	2.55
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

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

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Certificates		
BBA	24/7232	(20-160mm)

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

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