

# 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
<b>Dimensions</b>				
Length	1200	mm		
Width	600	mm		
Thickness range	20 - 160	mm	T2	EN 823
Density (core volume weight)	± 30	kg/m <sup>3</sup>		
<b>Appearance</b>				
Facing	Bituminous 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/mK
80 – 119 mm	EN 13165	λ <sub>D</sub>	0.025	W/mK
≤ 79 mm	EN 13165	λ <sub>D</sub>	0.027	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

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

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

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insulation

Deformation under specified compressive load and 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	
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**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 <sub>D</sub> -value (W/mK)	R <sub>D</sub> -value (m <sup>2</sup> K/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

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Environmental management ISO 14001:2015

## Certificates

BBA 13/5045 (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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