



# Declaration of Performance

Kooltherm® K5EWB

1000.CPR.2013.K5EWB.003

Unique identification code of the product-type:	<b>Kooltherm® K5 EWB</b>
Intended use/es:	<b>Thermal insulation for buildings</b>
Manufacturer:	<b>Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK</b>
System/s of AVCP:	<b>System 3</b>
Harmonised technical specification	<b>BS-EN 13166:2012+A2:2016</b>
Notified body/ies:	<b>University of Salford NB 1145.B.I.T.S NB 1334.Exova NB 1104</b>

Essential characteristics		Performance	
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	d <sub>N</sub> 20mm	0.85
		d <sub>N</sub> 25mm	1.15
		d <sub>N</sub> 30mm	1.40
		d <sub>N</sub> 40mm	1.90
		d <sub>N</sub> 50mm	2.50
		d <sub>N</sub> 60mm	3.00
		d <sub>N</sub> 70mm	3.50
		d <sub>N</sub> 80mm	4.00
		d <sub>N</sub> 90mm	4.50
		d <sub>N</sub> 100mm	5.00
		d <sub>N</sub> 120mm	6.00
		d <sub>N</sub> 130mm	6.50
		d <sub>N</sub> 140mm	7.00
		d <sub>N</sub> 150mm	7.50
	Thermal conductivity $\lambda_D$ (W/(m.K))	d <sub>N</sub> <25mm	0.023
		d <sub>N</sub> 25-44mm	0.021
		d <sub>N</sub> 45-150mm	0.020
	Thickness tolerance	d <sub>N</sub> 20-200mm T1	
Reaction to fire	Reaction to fire	RtF C-s1,d0	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD	
Durability of thermal resistance against heat, weathering, ageing/ degradation	Durability Characteristics	NPD	
	Dimensional stability under specified temperature and humidity condition	DS(70,90)	
		DS(-20,-)	
	Thermal conductivity $\lambda_D$ (W/(m.K))	d <sub>N</sub> 25-44mm	0.021
	d <sub>N</sub> 45-150mm	0.020	
	Determination of the aged values of thermal resistance and thermal conductivity	RD and $\lambda_D$	
Compressive strength	Compressive stress or compressive strength	CS(Y)100	
Tensile / Flexural strength	Tensile strength perpendicular to faces	NPD	



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Durability of compressive strength against ageing / degradation	Compressive creep	NPD
Water permeability	Short term water absorption	NPD
	Long term water absorption	NPD
	Closed cell content	CV
Water vapour permeability	Water vapour transmission	NPD
	Closed cell content	CV
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD
NPD: No Performance Determined		

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

**Signed for and on behalf of the manufacturer by:**

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**Ralph Mannion**  
**Managing Director UK and Ireland**  
**Pembridge, England, UK**  
**Version 3**  
**Version date 1/1/2019**  
**First signed 1/1/2019**