



Declaration of Performance

Kooltherm® K5

1002.CPR.2013.K5.005

Unique identification code of the product-type:	Kooltherm® K5
Intended use/es:	Thermal insulation for buildings
Manufacturer:	Kingspan Insulation Ltd, Bree Industrial Estate, Castleblayney, Co Monaghan, Ireland A75 X966
System/s of AVCP:	System 3
Designated technical specification	EN 13166:2012+A2:2016
UK Assessment bodies	KIWA BDA (NB 1640), AFITI (NB 1168)

Essential characteristics		Performance																		
Thermal resistance	Thermal resistance R_D ((m ² .K)/W)	<table border="0"> <tr><td>d_N 25mm</td><td>1.10</td></tr> <tr><td>d_N 30mm</td><td>1.35</td></tr> <tr><td>d_N 40mm</td><td>1.80</td></tr> <tr><td>d_N 50mm</td><td>2.35</td></tr> <tr><td>d_N 60mm</td><td>2.85</td></tr> <tr><td>d_N 70mm</td><td>3.30</td></tr> <tr><td>d_N 80mm</td><td>3.80</td></tr> <tr><td>d_N 90mm</td><td>4.25</td></tr> <tr><td>d_N 100mm</td><td>4.75</td></tr> </table>	d_N 25mm	1.10	d_N 30mm	1.35	d_N 40mm	1.80	d_N 50mm	2.35	d_N 60mm	2.85	d_N 70mm	3.30	d_N 80mm	3.80	d_N 90mm	4.25	d_N 100mm	4.75
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Thermal conductivity λ_D (W/(m.K))	<table border="0"> <tr><td>d_N 25-44mm</td><td>0.022</td></tr> <tr><td>d_N 45-100mm</td><td>0.021</td></tr> </table>	d_N 25-44mm	0.022	d_N 45-100mm	0.021															
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Thickness tolerance	T1																			
Reaction to fire	Reaction to fire	C-s2,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,-)																		
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	Determination of the aged values of thermal resistance and thermal conductivity	RD and λ D
Compressive strength	Compressive stress or compressive strength	CS(Y)100
Tensile / Flexural strength	Tensile strength perpendicular to faces	NPD
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	NPD
Continuous Glowing Combustion	Glowing Combustion	NPD
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, Ireland
Date signed: 2nd August 2021
Issue Number: 005