

UK Declaration of Conformity

Kooltherm® K108

1000.UKDoC.K108.002

Unique identification code of the product-type:
Intended use/es:
Manufacturer:
System/s of AVCP:
Harmonised technical specification
UK Assessment Bodies

Kooltherm® K108
Thermal insulation for buildings
Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK
System 3 System 4 RtF
BS-EN 13166:2012+A2:2016
University of Salford 1145 . BITS 1334

Essential characteristics		Performance																										
Thermal resistance	Thermal resistance R_D ((m ² .K)/W)	<table border="1"> <tr><td>d_N 25mm</td><td>1.35</td></tr> <tr><td>d_N 30mm</td><td>1.65</td></tr> <tr><td>d_N 40mm</td><td>2.20</td></tr> <tr><td>d_N 50mm</td><td>2.75</td></tr> <tr><td>d_N 60mm</td><td>3.30</td></tr> <tr><td>d_N 70mm</td><td>3.85</td></tr> <tr><td>d_N 80mm</td><td>4.40</td></tr> <tr><td>d_N 90mm</td><td>5.00</td></tr> <tr><td>d_N 100mm</td><td>5.55</td></tr> <tr><td>d_N 120mm</td><td>6.65</td></tr> <tr><td>d_N 130mm</td><td>7.20</td></tr> <tr><td>d_N 140mm</td><td>7.75</td></tr> <tr><td>d_N 150mm</td><td>8.30</td></tr> </table>	d_N 25mm	1.35	d_N 30mm	1.65	d_N 40mm	2.20	d_N 50mm	2.75	d_N 60mm	3.30	d_N 70mm	3.85	d_N 80mm	4.40	d_N 90mm	5.00	d_N 100mm	5.55	d_N 120mm	6.65	d_N 130mm	7.20	d_N 140mm	7.75	d_N 150mm	8.30
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Thermal conductivity λ_D (W/(m.K))	λ_D 0.018																											
Thickness tolerance	d_N 20-200mm T1																											
Reaction to fire	Reaction to fire	RtF																										
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,-)																										
Determination of the aged values of thermal resistance and thermal conductivity	R_D 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																										

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	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		

Signed for and on behalf of the manufacturer by:



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Ralph Mannion
Managing Director UK and Ireland
Pembridge, England, UK
Version 2
Version date 26/2/2021
First signed 26/1/2021