



# Declaration of Performance

Kingspan Kooltherm K107

1000.CPR.2013.K107.005

Unique identification code of the product-type:  
Intended use/es:  
Manufacturer:  
System/s of AVCP:  
Harmonised technical specification  
Notified body/ies:

Kingspan **Kooltherm® K107**  
**Thermal insulation for buildings**  
**Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK**  
**System 3, System 4 RtF**  
**BS-EN 13166:2012+A2:2016**  
**KIWA:1640**

Essential characteristics		Performance																										
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	<table> <tr><td><math>d_N</math> 25mm</td><td>1.35</td></tr> <tr><td><math>d_N</math> 30mm</td><td>1.65</td></tr> <tr><td><math>d_N</math> 40mm</td><td>2.20</td></tr> <tr><td><math>d_N</math> 50mm</td><td>2.75</td></tr> <tr><td><math>d_N</math> 60mm</td><td>3.30</td></tr> <tr><td><math>d_N</math> 70mm</td><td>3.85</td></tr> <tr><td><math>d_N</math> 80mm</td><td>4.40</td></tr> <tr><td><math>d_N</math> 90mm</td><td>5.00</td></tr> <tr><td><math>d_N</math> 100mm</td><td>5.55</td></tr> <tr><td><math>d_N</math> 120mm</td><td>6.35</td></tr> <tr><td><math>d_N</math> 130mm</td><td>7.20</td></tr> <tr><td><math>d_N</math> 140mm</td><td>7.75</td></tr> <tr><td><math>d_N</math> 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	6.35	$d_N$ 130mm	7.20	$d_N$ 140mm	7.75	$d_N$ 150mm	8.30
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Thermal conductivity $\lambda_D$ (W/(m.K))	$\lambda_D$ 0.018																											
Thickness tolerance	T1																											
Reaction to fire	Reaction to fire	RtF F																										
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 $\lambda_D$																											
Compressive strength	Compressive stress or compressive strength	CS(Y)100																										



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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
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD
Continuous Glowing Combustion	Glowing combustion	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  
Pembridge, England, UK  
Date signed: 27/09/2021  
Issue Number: 005

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