



# Declaration of Performance

Kingspan Kooltherm® K103 Floorboard

1000.CPR.2013.K103.005

Unique identification code of the product-type: **Kingspan Kooltherm® K103 Floorboard**  
 Intended use/es: **Thermal insulation for buildings**  
 Manufacturer: **Kingspan Insulation Ltd, Herefordshire HR6 9LA, UK**  
 System/s of AVCP: **System 1 (Reaction to Fire), System 3 (Other Properties)**  
 Designated technical specification: **BS EN 13166:2012+A2:2016**  
 Notified body/ies: **Efectis: 1812, KIWA: 0063, FIW: 0751**

Essential characteristics		Performance																														
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	<table border="1"> <tr><td><math>d_N</math> 25mm</td><td>1.30</td></tr> <tr><td><math>d_N</math> 30mm</td><td>1.55</td></tr> <tr><td><math>d_N</math> 40mm</td><td>2.10</td></tr> <tr><td><math>d_N</math> 50mm</td><td>2.60</td></tr> <tr><td><math>d_N</math> 60mm</td><td>3.15</td></tr> <tr><td><math>d_N</math> 70mm</td><td>3.65</td></tr> <tr><td><math>d_N</math> 75mm</td><td>3.90</td></tr> <tr><td><math>d_N</math> 80mm</td><td>4.20</td></tr> <tr><td><math>d_N</math> 90mm</td><td>4.70</td></tr> <tr><td><math>d_N</math> 100mm</td><td>5.25</td></tr> <tr><td><math>d_N</math> 110mm</td><td>5.75</td></tr> <tr><td><math>d_N</math> 120mm</td><td>6.30</td></tr> <tr><td><math>d_N</math> 130mm</td><td>6.80</td></tr> <tr><td><math>d_N</math> 140mm</td><td>7.35</td></tr> <tr><td><math>d_N</math> 150mm</td><td>7.85</td></tr> </table>	$d_N$ 25mm	1.30	$d_N$ 30mm	1.55	$d_N$ 40mm	2.10	$d_N$ 50mm	2.60	$d_N$ 60mm	3.15	$d_N$ 70mm	3.65	$d_N$ 75mm	3.90	$d_N$ 80mm	4.20	$d_N$ 90mm	4.70	$d_N$ 100mm	5.25	$d_N$ 110mm	5.75	$d_N$ 120mm	6.30	$d_N$ 130mm	6.80	$d_N$ 140mm	7.35	$d_N$ 150mm	7.85
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Thermal conductivity $\lambda_D$ (W/(m.K))	$\lambda_D$ 0.019																															
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,-)																														
Determination of the aged values of thermal resistance and thermal conductivity		$R_D$ and $\lambda_D$																														



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Compressive strength	Compressive stress or compressive strength	CS(Y)120
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	Closed cell	NPD
	Water vapour transmission	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.

For System 1 AVCP Notified certification body No 1812 Performed, carried out the determination of the product type, the inspection of the manufacturing plant and factory production control and continuous surveillance, assessment and evaluation of the factory production control, and issued the certificate of constancy of performance for reaction to fire, cert No 1812 – CPR – 2093.

Notified testing labs 0063 and 0751 Performed the test reports for the other relevant declared characteristics (AVCP 3 properties)

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

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**Aiveen Kearney**  
Managing Director  
Pembroke, England, UK  
Date signed: 14/07/2023  
Issue Number: 005



For the most up-to-date version of the Declaration of Performance please scan or [click here](#).



## Declaration of Performance

To access pre-existing product information or information relating to previously sold/discontinued products please email [literature@kingspaninsulation.co.uk](mailto:literature@kingspaninsulation.co.uk).