

# Declaration of Performance

Thermarroof TR27

1000.CPR.2013.TR27.001

1.	Unique identification code of the product-type	<b>Thermarroof TR27</b>
2.	Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4)	<b>See product label and marking on boards</b>
3.	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	<b>Thermal insulation for buildings</b>
4.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)	<b>Kingspan Insulation Ltd Pembridge Herefordshire HR6 9LA</b>
5.	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2)	<b>Not relevant</b>
6.	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V	<b>System 3</b>
7.	In case of the declaration of performance concerning a construction product covered by a harmonised standard	<b>EN 13165:2012 Notified testing laboratory FIW München (No. 0751) and Exova (No. 1104) performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation, tabulated values or descriptive documentation of the product under system 3</b>
8.	In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued	<b>Not relevant</b>

9. Declared performance

Essential characteristics	Performance		Harmonised technical specification																						
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	<table border="0"> <tr><td><math>d_N</math> 30mm</td><td>1.15</td></tr> <tr><td><math>d_N</math> 40mm</td><td>1.50</td></tr> <tr><td><math>d_N</math> 50mm</td><td>1.90</td></tr> <tr><td><math>d_N</math> 60mm</td><td>2.30</td></tr> <tr><td><math>d_N</math> 70mm</td><td>2.65</td></tr> <tr><td><math>d_N</math> 80mm</td><td>3.20</td></tr> <tr><td><math>d_N</math> 90mm</td><td>3.60</td></tr> <tr><td><math>d_N</math> 100mm</td><td>4.00</td></tr> <tr><td><math>d_N</math> 110mm</td><td>4.40</td></tr> <tr><td><math>d_N</math> 120mm</td><td>5.00</td></tr> <tr><td><math>d_N</math> 130mm</td><td>5.40</td></tr> </table>	$d_N$ 30mm	1.15	$d_N$ 40mm	1.50	$d_N$ 50mm	1.90	$d_N$ 60mm	2.30	$d_N$ 70mm	2.65	$d_N$ 80mm	3.20	$d_N$ 90mm	3.60	$d_N$ 100mm	4.00	$d_N$ 110mm	4.40	$d_N$ 120mm	5.00	$d_N$ 130mm	5.40	EN 12667 EN 12939
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Thermal conductivity $\lambda_D$ (W/(m.K))	<table border="0"> <tr><td><math>d_N &lt; 80</math>mm</td><td>0.026</td></tr> <tr><td><math>d_N</math> 80-119mm</td><td>0.025</td></tr> <tr><td><math>d_N \geq 120</math>mm</td><td>0.024</td></tr> </table>	$d_N < 80$ mm	0.026	$d_N$ 80-119mm	0.025	$d_N \geq 120$ mm	0.024																		
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Thickness tolerance	<table border="0"> <tr><td><math>d_N &lt; 50</math>mm</td><td>T2: <math>\pm 2</math>mm</td></tr> <tr><td><math>d_N</math> 50-75mm</td><td>T2: <math>\pm 3</math>mm</td></tr> <tr><td><math>d_N &gt; 75</math>mm</td><td>T2: +5, -3mm</td></tr> </table>	$d_N < 50$ mm	T2: $\pm 2$ mm	$d_N$ 50-75mm	T2: $\pm 3$ mm	$d_N > 75$ mm	T2: +5, -3mm	EN 823																	
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Reaction to fire		RtF E	EN 13501-1																						
Compressive strength		CS(10\Y)150	EN 826																						
Tensile strength	Perpendicular to faces	TR80	EN 1607																						
Dimensional stability under specified temperature and humidity conditions	48 h, 70 °C, 90 % R.H.	DS(70,90)3	EN 1604																						
	48 h, -20 °C	DS(-20,-)1																							
Deformation under specified compressive load and temperature conditions	40 kPa, 70 °C, 168 h	DLT(2)5	EN 1605																						

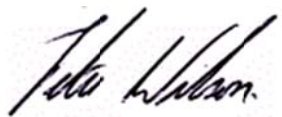
All other essential characteristics according to EN 13165:2012 ZA.1; NPĐ

Where pursuant to Article 37 or 38, the Specific Technical Documentation has been used, the requirements with which the product complies:

**Not relevant**

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

 Peter Wilson Managing Director	UK / 1 <sup>st</sup> July 2013
(name and function)	(place and date of issue)