

Declaration of Performance

Thermawall TW53

1000.CPR.2013.TW53.001

1.	Unique identification code of the product-type	Thermawall TW53
2.	Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4)	See product label and marking on boards
3.	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	Thermal insulation for buildings
4.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)	Kingspan Insulation Ltd Pembridge Herefordshire HR6 9LA
5.	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2)	Not relevant
6.	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V	System 3
7.	In case of the declaration of performance concerning a construction product covered by a harmonised standard	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
8.	In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued	Not relevant

9. Declared performance

Essential characteristics	Performance		Harmonised technical specification																						
Thermal resistance	Thermal resistance R_D ((m ² .K)/W)	<table border="1"> <tr><td>d_N 30mm</td><td>1.15</td></tr> <tr><td>d_N 40mm</td><td>1.50</td></tr> <tr><td>d_N 50mm</td><td>1.90</td></tr> <tr><td>d_N 60mm</td><td>2.30</td></tr> <tr><td>d_N 70mm</td><td>2.65</td></tr> <tr><td>d_N 80mm</td><td>3.20</td></tr> <tr><td>d_N 90mm</td><td>3.60</td></tr> <tr><td>d_N 100mm</td><td>4.00</td></tr> <tr><td>d_N 110mm</td><td>4.40</td></tr> <tr><td>d_N 120mm</td><td>5.00</td></tr> <tr><td>d_N 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 λ_D (W/(m.K))	<table border="1"> <tr><td>$d_N < 80$mm</td><td>0.026</td></tr> <tr><td>d_N 80-119mm</td><td>0.025</td></tr> <tr><td>$d_N \geq 120$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="1"> <tr><td>$d_N < 50$mm</td><td>T2; ± 2mm</td></tr> <tr><td>d_N 50-75mm</td><td>T2; ± 3mm</td></tr> <tr><td>$d_N > 75$mm</td><td>T2; +5, -3mm</td></tr> </table>	$d_N < 50$ mm	T2; ± 2 mm	d_N 50-75mm	T2; ± 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																							

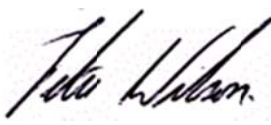
All other essential characteristics according to EN 13165:2012 ZA.1; NPD

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 (name and function)	UK / 1 st July 2013 (place and date of issue)
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