



# Declaration of Performance

Thermawall® TW50

1002.CPR.2013.TW50.008

Unique identification code of the product-type: **Thermawall® TW50**  
 Intended use/es: **Thermal insulation for buildings**  
 Manufacturer: **Kingspan Insulation Ltd, Bree Industrial Estate, Castleblayney, Co Monaghan, A75 X966**  
 System/s of AVCP: **System 4 for Reaction to Fire, System 3 for all other properties**  
 Designated technical specification: **EN 13165:2012+A2:2016**  
 Notified body/ies: **FIW Munchen (0751)**

Essential characteristics		Performance																													
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	<table border="0"> <tr><td><math>d_N</math> 25mm</td><td>1.10</td></tr> <tr><td><math>d_N</math> 30mm</td><td>1.35</td></tr> <tr><td><math>d_N</math> 40mm</td><td>1.80</td></tr> <tr><td><math>d_N</math> 50mm</td><td>2.25</td></tr> <tr><td><math>d_N</math> 60mm</td><td>2.70</td></tr> <tr><td><math>d_N</math> 70mm</td><td>3.15</td></tr> <tr><td><math>d_N</math> 80mm</td><td>3.60</td></tr> <tr><td><math>d_N</math> 90mm</td><td>4.05</td></tr> <tr><td><math>d_N</math> 100mm</td><td>4.50</td></tr> <tr><td><math>d_N</math> 110mm</td><td>5.00</td></tr> <tr><td><math>d_N</math> 120mm</td><td>5.45</td></tr> <tr><td><math>d_N</math> 130mm</td><td>5.90</td></tr> <tr><td><math>d_N</math> 140mm</td><td>6.35</td></tr> <tr><td><math>d_N</math> 150mm</td><td>6.80</td></tr> </table>	$d_N$ 25mm	1.10	$d_N$ 30mm	1.35	$d_N$ 40mm	1.80	$d_N$ 50mm	2.25	$d_N$ 60mm	2.70	$d_N$ 70mm	3.15	$d_N$ 80mm	3.60	$d_N$ 90mm	4.05	$d_N$ 100mm	4.50	$d_N$ 110mm	5.00	$d_N$ 120mm	5.45	$d_N$ 130mm	5.90	$d_N$ 140mm	6.35	$d_N$ 150mm	6.80	
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Thermal conductivity $\lambda_D$ (W/(m.K))	$d_N$ 25mm- $d_N$ 150mm	0.022																													
Thickness tolerance		T2																													
Reaction to fire	Reaction to fire	F																													
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability of the reaction to fire of the product as placed on the market	NPD																													
	Durability of thermal resistance and thermal conductivity against ageing/ degradation	NPD																													
Durability of Thermal Resistance against heat, weathering, ageing / degradation	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	Thermal resistance as table above																													
	Thermal conductivity $\lambda_D$ (W/(m.K))	0.022																													
	Durability characteristics	NPD																													
	Dimensional stability under specified temperature and humidity condition	DS(70,90)3 DS(-20,-)1																													



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	Deformation under specified compressive load and temperature conditions	NPD
	Determination of the aged values of thermal resistance and thermal conductivity	$\lambda_D$ 0,022 W/m·K
Compressive strength	Compressive stress or compressive strength	CS(10\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
	Flatness after one sided wetting	NPD
Water vapour permeability	Water vapour transmission	NPD
Acoustic absorption index	Sound absorption	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.

Signed for and on behalf of the manufacturer by:

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**Siobhan O Dwyer**  
Managing Director, Ireland  
Date signed: 14th April 2026  
Issue Number: 008



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

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