

UK Declaration of Performance

Thermawall®TW50

1000.UKDoP.TW50.001

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Unique identification code of the product-type:

Thermawall® TW50

Intended use/es:

Thermal insulation for buildings

Manufacturer:

Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK

System/s of AVCP:

System 3 System 4 RtF

Designated technical specification:

BS-EN 13165:2012+A2:2016

UK Assessment body/ies:

University of Salford:1145, B.I.T.S:1334

Essential characteristics		Performance																										
Thermal resistance	Thermal resistance R_D ((m ² .K)/W)	<table border="0"> <tr><td>d_N 20mm</td><td>0.95</td></tr> <tr><td>d_N 30mm</td><td>1.35</td></tr> <tr><td>d_N 40mm</td><td>1.80</td></tr> <tr><td>d_N 50mm</td><td>2.25</td></tr> <tr><td>d_N 60mm</td><td>2.70</td></tr> <tr><td>d_N 70mm</td><td>3.15</td></tr> <tr><td>d_N 80mm</td><td>3.60</td></tr> <tr><td>d_N 90mm</td><td>4.05</td></tr> <tr><td>d_N 100mm</td><td>4.50</td></tr> <tr><td>d_N 120mm</td><td>5.45</td></tr> <tr><td>d_N 130mm</td><td>5.90</td></tr> <tr><td>d_N 140mm</td><td>6.35</td></tr> <tr><td>d_N 150mm</td><td>6.80</td></tr> </table>	d_N 20mm	0.95	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 120mm	5.45	d_N 130mm	5.90	d_N 140mm	6.35	d_N 150mm	6.80
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Thermal conductivity λ_D (W/(m.K))	<table border="0"> <tr><td>d_N 20mm</td><td rowspan="2">0.022</td></tr> <tr><td>d_N 150mm</td></tr> </table>	d_N 20mm	0.022	d_N 150mm																								
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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 ² .K)/W)	Thermal resistance as table above																										
	Thermal conductivity λ_D (W/(m.K))	0.022																										
	Durability characteristics	NPD																										
	Dimensional stability under specified temperature and humidity condition	DS(70,90)3 DS(-20,-)1																										
	Deformation under specified compressive load and temperature conditions	NPD																										

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	Determination of the aged values of thermal resistance and thermal conductivity	λ_D 0,022 W/m·K
Compressive strength	Compressive stress or compressive strength	CS(10\Y)140
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		

EU Regulation 305/2011, as retained in UK law, and as amended by SI no. 465/2019 (the Construction Products (Amendment etc.) (EU Exit) Regulations 2019) and SI no. 1359/2020 (the Construction Products (Amendment etc.) (EU Exit) Regulations 2020.)

Signed for and on behalf of the manufacturer by:



Ralph Mannion
 Managing Director
 Pembridge, Selby, England, UK
 Date signed: 28/06/2021
 Issue Number: 001