

UK Declaration of Performance

Kingspan Thermaroom® TR27 PB

1000.UKDoP.TR27PB.001

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Unique identification code of the product-type: **Kingspan Thermaroom® TR27 PB**
 Intended use/es: **Thermal insulation for buildings**
 Manufacturer: **Kingspan Insulation Ltd, Herefordshire HR6 9LA, UK**
 System/s of AVCP: **System 4 (Reaction to fire), System 3 (Other Properties)**
 Designated technical specification: **BS-EN 13165:2012+A2:2016**
 UK Assessment/Notified body/ies: **University of Salford: 1145, B.I.T.S: 1334**

Essential characteristics	Performance																														
Thermal resistance	<table border="0"> <tr> <td>d_N 160mm (80mm + 80mm)</td> <td>6.40</td> </tr> <tr> <td>d_N 170mm (120mm + 50mm)</td> <td>6.85</td> </tr> <tr> <td>d_N 180mm (120mm + 60mm)</td> <td>7.20</td> </tr> <tr> <td>d_N 190mm (130mm + 60mm)</td> <td>7.60</td> </tr> <tr> <td>d_N 200mm (100mm + 100mm)</td> <td>8.00</td> </tr> <tr> <td>d_N 210mm (130mm + 80mm)</td> <td>8.60</td> </tr> <tr> <td>d_N 220mm (120mm + 100mm)</td> <td>9.00</td> </tr> <tr> <td>d_N 230mm (130mm + 100mm)</td> <td>9.40</td> </tr> <tr> <td>d_N 240mm (120mm + 120mm)</td> <td>10.00</td> </tr> <tr> <td>d_N 250mm (120mm + 130mm)</td> <td>10.40</td> </tr> <tr> <td>d_N 260mm (130mm + 130mm)</td> <td>10.80</td> </tr> <tr> <td>d_N 270mm (140mm + 130mm)</td> <td>11.20</td> </tr> <tr> <td>d_N 280mm (140mm + 140mm)</td> <td>11.60</td> </tr> <tr> <td>d_N 290mm (150mm + 140mm)</td> <td>12.05</td> </tr> <tr> <td>d_N 300mm (150mm + 150mm)</td> <td>12.50</td> </tr> </table>	d_N 160mm (80mm + 80mm)	6.40	d_N 170mm (120mm + 50mm)	6.85	d_N 180mm (120mm + 60mm)	7.20	d_N 190mm (130mm + 60mm)	7.60	d_N 200mm (100mm + 100mm)	8.00	d_N 210mm (130mm + 80mm)	8.60	d_N 220mm (120mm + 100mm)	9.00	d_N 230mm (130mm + 100mm)	9.40	d_N 240mm (120mm + 120mm)	10.00	d_N 250mm (120mm + 130mm)	10.40	d_N 260mm (130mm + 130mm)	10.80	d_N 270mm (140mm + 130mm)	11.20	d_N 280mm (140mm + 140mm)	11.60	d_N 290mm (150mm + 140mm)	12.05	d_N 300mm (150mm + 150mm)	12.50
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Thermal conductivity λ_D (W/(m.K))	<p>Single Component Only</p> <p>Flat board - Plant 1000</p> <table border="0"> <tr> <td>$d_N < 80$mm</td> <td>0.027</td> </tr> <tr> <td>$d_N 80-119$mm</td> <td>0.025</td> </tr> <tr> <td>$d_N \geq 120$mm</td> <td>0.024</td> </tr> </table> <p>Flat board – Plant 1001</p> <table border="0"> <tr> <td>$d_N < 80$mm</td> <td>0.027</td> </tr> <tr> <td>$d_N 80-119$mm</td> <td>Not manufactured</td> </tr> <tr> <td>$d_N \geq 120$mm</td> <td>0.024</td> </tr> </table>	$d_N < 80$ mm	0.027	$d_N 80-119$ mm	0.025	$d_N \geq 120$ mm	0.024	$d_N < 80$ mm	0.027	$d_N 80-119$ mm	Not manufactured	$d_N \geq 120$ mm	0.024																		
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		The Thermal Conductivity listed above is for the single board components used to make up the pre-bonded product only. For the full Thermal resistance, see above table.
	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 Single Layer Flat board - Plant 1000 $d_N < 80mm$ 0.027 $d_N 80-119mm$ 0.025 $d_N \geq 120mm$ 0.024 Flat board – Plant 1001 $d_N < 80mm$ 0.027 $d_N 80-119mm$ Not manufactured $d_N \geq 120mm$ 0.024 The Thermal Conductivity listed above is for the single board components used to make up the pre-bonded product only. For the full Thermal resistance, see above table.
	Thermal conductivity λ_D ($W/(m.K)$)	
	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	λ_D 0,024, 0.025, 0,027 W/m·K
Compressive strength	Compressive stress or compressive strength	CS(10\Y)150
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:



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Aiveen Kearney
Managing Director
Pembridge, Selby, England, UK
Date signed: 23/01/2023



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