

## UK Declaration of Performance

Kingspan Thermaroom® TR27

1000.UKDoP.TR27.003

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Unique identification code of the product-type: **Kingspan Thermaroom® TR27**  
 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	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	$d_N$ 20mm	0.70		
		$d_N$ 25mm	0.90		
	$d_N$ 30mm	1.10			
Thermal resistance	Thermal conductivity $\lambda_D$ (W/(m.K))	$d_N$ 40mm	1.45		
		$d_N$ 50mm	1.85		
		$d_N$ 60mm	2.20		
		$d_N$ 70mm	2.55		
		$d_N$ 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		
		$d_N$ 140mm	5.80		
		$d_N$ 150mm	6.25		
		$d_N$ 160mm	6.65		
		Thermal resistance	Thermal conductivity $\lambda_D$ (W/(m.K))	Flat board - Plant 1000	
				$d_N < 80$ mm	0.027
$d_N 80-119$ mm	0.025				
Thermal resistance	Thermal conductivity $\lambda_D$ (W/(m.K))	$d_N \geq 120$ mm	0.024		
		Flat board – Plant 1001			
		$d_N < 80$ mm	0.027		
Thermal resistance	Thermal conductivity $\lambda_D$ (W/(m.K))	$d_N 80-119$ mm	Not manufactured		
		$d_N \geq 120$ mm	0.024		
		Thickness tolerance	T2		
Reaction to fire	Reaction to fire	F			

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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  Flat board - Plant 1000 <table data-bbox="1093 963 1348 1052"> <tr><td><math>d_N &lt; 80\text{mm}</math></td><td>0.027</td></tr> <tr><td><math>d_N 80-119\text{mm}</math></td><td>0.025</td></tr> <tr><td><math>d_N \geq 120\text{mm}</math></td><td>0.024</td></tr> </table>	$d_N < 80\text{mm}$	0.027	$d_N 80-119\text{mm}$	0.025	$d_N \geq 120\text{mm}$	0.024
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	Thermal conductivity $\lambda_D$ (W/(m.K))	Flat board – Plant 1001 <table data-bbox="1093 1131 1460 1220"> <tr><td><math>d_N &lt; 80\text{mm}</math></td><td>0.027</td></tr> <tr><td><math>d_N 80-119\text{mm}</math></td><td>Not manufactured</td></tr> <tr><td><math>d_N \geq 120\text{mm}</math></td><td>0.024</td></tr> </table>	$d_N < 80\text{mm}$	0.027	$d_N 80-119\text{mm}$	Not manufactured	$d_N \geq 120\text{mm}$	0.024
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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							
Determination of the aged values of thermal resistance and thermal conductivity	$\lambda_D$ 0,024, 0.025, 0,027 W/m.K							
Compressive strength	Compressive stress or compressive strength	CS(10\Y)150						

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Tensile / Flexural strength	Tensile strength perpendicular to faces	TR80
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: 05/12/2022**  
**Issue Number: 003**