



# Declaration of Performance

Kingspan Thermarroof® TR27

1000.CPR.2013.TR27.007

Unique identification code of the product-type: **Kingspan Thermarroof® 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)**  
 Harmonised technical specification: **BS-EN 13165:2012+A2:2016**  
 Notified body/ies: **FIW München: 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> 20mm</td><td>0.70</td></tr> <tr><td><math>d_N</math> 25mm</td><td>0.90</td></tr> <tr><td><math>d_N</math> 30mm</td><td>1.10</td></tr> <tr><td><math>d_N</math> 40mm</td><td>1.45</td></tr> <tr><td><math>d_N</math> 50mm</td><td>1.85</td></tr> <tr><td><math>d_N</math> 60mm</td><td>2.20</td></tr> <tr><td><math>d_N</math> 70mm</td><td>2.55</td></tr> <tr><td><math>d_N</math> 80mm</td><td>3.20</td></tr> <tr><td><math>d_N</math> 90mm</td><td>3.60</td></tr> <tr><td><math>d_N</math> 100mm</td><td>4.00</td></tr> <tr><td><math>d_N</math> 110mm</td><td>4.40</td></tr> <tr><td><math>d_N</math> 120mm</td><td>5.00</td></tr> <tr><td><math>d_N</math> 130mm</td><td>5.40</td></tr> <tr><td><math>d_N</math> 140mm</td><td>5.80</td></tr> <tr><td><math>d_N</math> 150mm</td><td>6.25</td></tr> <tr><td><math>d_N</math> 160mm</td><td>6.65</td></tr> </table>	$d_N$ 20mm	0.70	$d_N$ 25mm	0.90	$d_N$ 30mm	1.10	$d_N$ 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
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Thermal conductivity $\lambda_D$ (W/(m.K))	<table border="0"> <tr><td><math>d_N &lt; 80</math>mm</td><td>0.027</td></tr> <tr><td><math>d_N</math> 80-119mm</td><td>0.025</td></tr> <tr><td><math>d_N \geq 120</math>mm</td><td>0.024</td></tr> </table>	$d_N < 80$ mm	0.027	$d_N$ 80-119mm	0.025	$d_N \geq 120$ mm	0.024																											
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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																																
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	Durability characteristics	NPD																																



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	Dimensional stability under specified temperature and humidity condition	DS(70,90)3 DS(-20,-)1
	Deformation under specified compressive load and temperature conditions	DLT(2)5
	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
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		

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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**Aiveen Kearney**  
**Managing Director**  
**Pembridge, England, UK**  
**Date signed: 05/12/2022**  
**Issue Number: 007**



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