



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 ² .K)/W)	<table border="0"> <tr><td>d_N 20mm</td><td>0.70</td></tr> <tr><td>d_N 25mm</td><td>0.90</td></tr> <tr><td>d_N 30mm</td><td>1.10</td></tr> <tr><td>d_N 40mm</td><td>1.45</td></tr> <tr><td>d_N 50mm</td><td>1.85</td></tr> <tr><td>d_N 60mm</td><td>2.20</td></tr> <tr><td>d_N 70mm</td><td>2.55</td></tr> <tr><td>d_N 80mm</td><td>3.20</td></tr> <tr><td>d_N 90mm</td><td>3.60</td></tr> <tr><td>d_N 100mm</td><td>4.00</td></tr> <tr><td>d_N 110mm</td><td>4.40</td></tr> <tr><td>d_N 120mm</td><td>5.00</td></tr> <tr><td>d_N 130mm</td><td>5.40</td></tr> <tr><td>d_N 140mm</td><td>5.80</td></tr> <tr><td>d_N 150mm</td><td>6.25</td></tr> <tr><td>d_N 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
	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																																	
Thermal conductivity λ_D (W/(m.K))	<table border="0"> <tr><td>$d_N < 80$mm</td><td>0.027</td></tr> <tr><td>d_N 80-119mm</td><td>0.025</td></tr> <tr><td>$d_N \geq 120$mm</td><td>0.024</td></tr> </table>	$d_N < 80$ mm	0.027	d_N 80-119mm	0.025	$d_N \geq 120$ mm	0.024																											
$d_N < 80$ mm	0.027																																	
d_N 80-119mm	0.025																																	
$d_N \geq 120$ mm	0.024																																	
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))	<table border="0"> <tr><td>$d_N < 80$mm</td><td>0.027</td></tr> <tr><td>d_N 80-119mm</td><td>0.025</td></tr> <tr><td>$d_N \geq 120$mm</td><td>0.024</td></tr> </table>	$d_N < 80$ mm	0.027	d_N 80-119mm	0.025	$d_N \geq 120$ mm	0.024																										
$d_N < 80$ mm	0.027																																	
d_N 80-119mm	0.025																																	
$d_N \geq 120$ mm	0.024																																	
	Durability characteristics	NPD																																



Declaration of Performance

	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	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	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:

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



Declaration of Performance

