



# Declaration of Performance

Thermarroof® TR27

1000.CPR.2013.TR27.006

Unique identification code of the product-type:

Intended use/es:

Manufacturer:

System/s of AVCP:

Harmonised technical specification:

Notified body/ies:

**Thermarroof® TR27**

**Thermal insulation for buildings**

**Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK**

**System 4 (Reaction to fire), System 3 (Other Properties)**

**BS-EN 13165:2012+A2:2016**

**FIW München: 0751**

Essential characteristics		Performance	
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	$d_N$ 30mm	1.15
		$d_N$ 40mm	1.50
		$d_N$ 50mm	1.90
		$d_N$ 60mm	2.30
		$d_N$ 70mm	2.65
		$d_N$ 80mm	3.20
		$d_N$ 90mm	3.60
		$d_N$ 100mm	4.00
		$d_N$ 120mm	5.00
		$d_N$ 130mm	5.40
		$d_N$ 140mm	5.83
		$d_N$ 150mm	6.25
	Thermal conductivity $\lambda_D$ (W/(m.K))	$d_N < 80$ 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 <sup>2</sup> .K)/W)	Thermal resistance as table above	
	Thermal conductivity $\lambda_D$ (W/(m.K))		
	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	DLT(2)5	
	Determination of the aged values of thermal resistance and thermal conductivity	$\lambda_D$ 0,024-0,027 W/m.K	



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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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**Ralph Mannion**  
**Managing Director**  
**Pembridge, England, UK**  
**Date signed: 18 / 01/ 2022**  
**Issue Number: 006**

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