

## UK Declaration of Performance

Kingspan Thermarroof® TR24

1000.UKDoP.TR24.001

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Unique identification code of the product-type:

**Thermarroof® TR24**

Intended use/es:

**Thermal insulation for buildings**

Manufacturer:

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

System/s of AVCP:

**System 3 and System 4 RtF**

Designated technical specification:

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

UK Assessment body/ies:

**University of Salford:1145, BITS:1334**

Essential characteristics		Performance	
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	$d_N$ 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	
$d_N$ 120mm		5.00	
$d_N$ 130mm		5.40	
$d_N$ 140mm	5.83		
$d_N$ 150mm	6.25		
$d_N$ 160mm	6.65		
Thermal resistance	Thermal conductivity $\lambda_D$ (W/(m.K))	$d_N < 80$ mm	0.027
		$d_N 80-119$ mm	0.025
		$d_N \geq 120$ mm	0.024
Thermal resistance	Thickness tolerance	T2	
	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))	$d_N < 80$ mm	0.027
		$d_N 80-119$ mm	0.025
		$d_N \geq 120$ mm	0.024
	Durability characteristics	NPD	
Durability of Thermal Resistance against heat, weathering, ageing / degradation	Dimensional stability under specified temperature and humidity condition	DS(70,90)3 DS(-20,-)1	
	Deformation under specified compressive load and temperature conditions	NPD	

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	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		

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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**Ralph Mannion**  
 Managing Director  
 Pembridge, Selby England, UK  
 Date signed: 23/08/2021  
 Issue Number: 001