UK Declaration of Performance

Kingspan Thermaroof ® TR24

1000.UKDoP.TR24.002
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Unique identification code of the product-type:	**Kingspan Thermaroof® TR24**
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 ((m².K)/W)	d_N 20mm	0.75
		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 120mm	5.00
		d_N 130mm	5.40
		d_N 140mm	5.83
		d_N 150mm	6.25
	Thermal conductivity λ_D (W/(m.K))	Flat board - Pembridge Plant 1000	
		d_N < 80mm	0.027
		d_N 80-119mm	0.025
		d_N ≥ 120mm	0.024
		Flat board – Selby Plant 1001	
		d_N < 80mm	0.027
		d_N 80-119mm	Not manufactured
		d_N ≥ 120mm	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 ((m².K)/W)	Thermal resistance as table above	

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	Thermal conductivity λD (W/(m.K))	Flat board - Pembridge Plant 1000 d_N < 80mm 0.027 d_N 80-119mm 0.025 d_N ≥ 120mm 0.024 Flat board – Selby Plant 1001 d_N < 80mm 0.027 d_N 80-119mm Not manufactured d_N ≥ 120mm 0.024
	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	λD 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		

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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
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