

UK Declaration of Conformity

Kooltherm® K5

1000.UKDoC.K5.001

Unique identification code of the product-type:
Intended use/es:
Manufacturer:
System/s of AVCP:
Harmonised technical specification
Notified body/ies:
BITS 1334

Kooltherm® K5
Thermal insulation for buildings
Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK
System 3
BS-EN 13166:2012+A2:2016
University of Salford 1145 BBA:0836. Efectis UK and Ireland NB 2822

Essential characteristics		Performance	
Thermal resistance	Thermal resistance R_D ((m ² .K)/W)	d_N 20mm	0.85
		d_N 25mm	1.15
		d_N 30mm	1.40
		d_N 40mm	1.90
		d_N 50mm	2.50
		d_N 60mm	3.00
		d_N 70mm	3.50
		d_N 80mm	4.00
		d_N 90mm	4.50
		d_N 100mm	5.00
	Thermal conductivity λ_D (W/(m.K))	d_N <25mm	0.023
		d_N 25-44mm	0.021
		d_N 45-150mm	0.020
	Thickness tolerance	d_N 20-200mm	T1
Reaction to fire	Reaction to fire	RtF C-s2,d0	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD	
Durability of thermal resistance against heat, weathering, ageing/ degradation	Durability Characteristics	NPD	
	Dimensional stability under specified temperature and humidity condition	DS(70,90)	
		DS(-20,-)	
	Thermal conductivity λ_D (W/(m.K))	d_N 25-44mm	0.021
d_N 45-150mm		0.020	
Determination of the aged values of thermal resistance and thermal conductivity	RD and λ_D		

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Compressive strength	Compressive stress or compressive strength	CS(Y)100
Tensile / Flexural strength	Tensile strength perpendicular to faces	NPD
Durability of compressive strength against ageing / degradation	Compressive creep	NPD
Water permeability	Short term water absorption	NPD
	Long term water absorption	NPD
	Closed cell content	CV
Water vapour permeability	Water vapour transmission	NPD
	Closed cell content	CV
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD
NPD: No Performance Determined		

Signed for and on behalf of the manufacturer by:



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Ralph Mannion
Managing Director UK and Ireland
Pembridge, England, UK
Version 1
Version date 1/1/2021
First signed 1/1/2021