Declaration of Performance

Kooltherm® K21

1003.CPR.2025.K21.002

Unique identification code of the product-type:	**Kooltherm® K21**
Intended use/es:	**Thermal insulation for buildings**
Manufacturer:	**Kingspan Insulation BV - Lingewei 8 - 4004 LL, Tiel (NL)**
System/s of AVCP:	**System 1: reaction to fire** **System 3: all other characteristics**
Harmonised technical specification:	**NEN-EN 13166:2012+A2:2016**
Notified body/ies:	**FIW München (No. 0751)**

FIW München (No. 0751) performed the determination of the product-type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product; the initial inspection of the manufacturing plant and of factory production control; and the continuous surveillance, assessment and evaluation of factory production control under system 1 for reaction to fire and issued the certificate of constancy of performance No. 0751-CPR-282.0-01.

FIW München (No. 0751) performed the determination of the product-type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation, tabulated values or descriptive documentation of the product under system 3 for all other characteristics and issued the test reports.

Table 1

Essential characteristics		Performance
Thermal resistance	Thermal resistance R_D ((m².K)/W)	R_D: Table 2
	Thermal conductivity λ_D (W/(m.K))	d_N 20-39mm 0.022 d_N 40-159mm 0.021
	Thickness	d_N 20-159mm T1
	Closed cell content	CV
Reaction to fire	Reaction to fire	B-s3, d0 (front side; black colour) C-s2, d0 (back side; pale/light colour)
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability characteristics	NPD
	Dimensional stability	DS(70,-)
		DS(70,90)
		DS(-20,-)
	Compressive strength	CS(Y)100
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal resistance R_D ((m².K)/W)	R_D: Table 2
	Thermal conductivity λ_D (W/(m.K))	λ_D: Table 2
	Durability characteristics	NPD
	Dimensional stability	DS(70,-)
		DS(70,90)
		DS(-20,-)
	Determination of the aged values of thermal resistance and thermal conductivity	R_D: Table 2 λ_D: Table 2
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	WS2
	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
Continuous glowing combustion	Continuous glowing combustion	NPD
NPD: No Performance Determined		

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Table 2

Thickness d_N	Thermal conductivity λ_D (W/(m.K))	Thermal resistance R_D ((m².K)/W)
20 mm	0.022	0.90
30 mm	0.022	1.35
40 mm	0.021	1.90
50 mm	0.021	2.35
60 mm	0.021	2.85
70 mm	0.021	3.30
80 mm	0.021	3.80
90 mm	0.021	4.25
100 mm	0.021	4.75
120 mm	0.021	5.70
140 mm	0.021	6.65
150 mm	0.021	7.10
159 mm	0.021	7.55

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:

Michel van der Helm,
Managing Director
Kingspan Insulation Continental Europe

Tiel, Netherlands, 01.08.2026