Declaration of Performance

Kooltherm® K12 D

1003.CPR.2023.K12D.003

Unique identification code of the product-type:	**Kooltherm® K12 D**
Intended use/es:	**Thermal insulation for buildings**
Manufacturer:	**Kingspan Insulation BV - Lingewei 8 - 4004 LL, Tiel (NL)**
System/s of AVCP:	**System 3**
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 (based on sampling carried out by the manufacturer), type calculation, tabulated values or descriptive documentation of the product under system 3 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 40-120mm	0.021
	Thickness	d_N 40-120mm	T1
	Closed cell content	CV	
Reaction to fire	Reaction to fire	D-s1, d0	
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	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	
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)
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

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