# Declaration of Performance

Kooltherm® K12 XL

1003.CPR.2025.K12XL.002

| | |
|---|---|
| Unique identification code of the product-type: | **Kooltherm® K12 XL** |
| 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 $\lambda_D$ (W/(m.K)) | $d_N$ 30-70mm | 0.021 |
| | Thickness | $d_N$ 30-70mm | 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 $\lambda_D$ (W/(m.K)) | $\lambda_D$: 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<br>$\lambda_D$: 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 $\lambda_D$ (W/(m.K)) | Thermal resistance $R_D$ ((m².K)/W) |
|---|---|---|
| 30 mm | 0.021 | 1.40 |
| 45 mm | 0.021 | 2.10 |
| 70 mm | 0.021 | 3.30 |

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