



Declaration of Performance

Kooltherm® K8

1000.CPR.2013.K8.004

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| Unique identification code of the product-type: | Kooltherm® K8 |
| Intended use/es: | Thermal insulation for buildings |
| Manufacturer: | Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK |
| System/s of AVCP: | System 3 |
| Harmonised technical specification | BS-EN 13166:2012+A2:2016 |
| Notified body/ies: | University of Salford NB 1145.B.I.T.S NB 1334.Exova NB 1104 |

| Essential characteristics | | Performance | |
|--|---|--------------------|-------|
| Thermal resistance | Thermal resistance R_D ((m ² .K)/W) | 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 | |
| d_N 120mm | | 6.00 | |
| d_N 130mm | | 6.50 | |
| d_N 140mm | | 7.00 | |
| d_N 150mm | | 7.50 | |
| Thermal resistance | Thermal conductivity λ_D (W/(m.K)) | d_N 25-44mm | 0.021 |
| | | d_N 45-150mm | 0.020 |
| Thermal resistance | Thickness tolerance | d_N 20-200mm T1 | |
| Reaction to fire | Reaction to fire | RtF NPD | |
| 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 | |
| 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 | |



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| | 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 | | |

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:

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Ralph Mannion
Managing Director UK and Ireland
Pembridge, England, UK
Version 4
Version date 1/1/2019
First signed 1/1/2019