



UK Declaration of Performance

Kingspan Thermawall® TW50

1000.UKDoP.TW50.004

1001.UKDoP.TW50.004

Unique identification code of the product-type:

Intended use/es:

Manufacturer:

System/s of AVCP:

Designated technical specification:

UK Assessment/Notified body/ies:

Kingspan Thermawall® TW50

Thermal insulation for buildings

Kingspan Insulation Ltd, Herefordshire HR6 9LA, UK

System 4 (Reaction to fire), System 3 (Other Properties)

BS EN 13165:2012+A2:2016

University of Salford: 1145, BBA: 0836

| Essential characteristics | | Performance | |
|---|---|-----------------------------------|-------|
| Thermal resistance | Thermal resistance R_D ((m ² .K)/W) | d_N 25mm | 1.10 |
| | | d_N 40mm | 1.80 |
| | | d_N 50mm | 2.25 |
| | | d_N 60mm | 2.70 |
| | | d_N 70mm | 3.15 |
| | | d_N 75mm | 3.40 |
| | | d_N 80mm | 3.60 |
| | | d_N 90mm | 4.05 |
| | | d_N 100mm | 4.50 |
| | | d_N 120mm | 5.45 |
| | | d_N 130mm | 5.90 |
| | | d_N 140mm | 6.35 |
| | | d_N 150mm | 6.80 |
| | Thermal conductivity λ_D (W/(m.K)) | λ_D | 0.022 |
| | Thickness tolerance | T2 | |
| Reaction to fire | Reaction to fire | F | |
| Durability of reaction to fire against heat, weathering, ageing / degradation | Durability of the reaction to fire of the product as placed on the market | NPD | |
| | Durability of thermal resistance and thermal conductivity against ageing/ degradation | NPD | |
| Durability of Thermal Resistance against heat, weathering, ageing / degradation | Thermal resistance R_D ((m ² .K)/W) | Thermal resistance as table above | |
| | Thermal conductivity λ_D (W/(m.K)) | 0.022 | |
| | Durability characteristics | NPD | |
| | Dimensional stability under specified temperature and humidity condition | DS(70,90)3 DS(-20,-)1 | |
| | Deformation under specified compressive load and temperature conditions | NPD | |
| | Determination of the aged values of thermal resistance and thermal conductivity | λ_D 0,022 W/m·K | |

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|---|--|-------------|
| Compressive strength | Compressive stress or compressive strength | CS(10\Y)120 |
| 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 |
| | Flatness after one sided wetting | NPD |
| Water vapour permeability | Water vapour transmission | NPD |
| Acoustic absorption index | Sound absorption | NPD |
| Continuous Glowing Combustion | Glowing Combustion | NPD |
| Release of dangerous substances to the indoor environment | Release of dangerous substances | NPD |
| NPD: No Performance Determined | | |

EU Regulation 305/2011, as retained in UK law, and as amended by SI no. 465/2019 (the Construction Products (Amendment etc.) (EU Exit) Regulations 2019) and SI no. 1359/2020 (the Construction Products (Amendment etc.) (EU Exit) Regulations 2020.)

Signed for and on behalf of the manufacturer by:



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Siobhan O'Dwyer
Managing Director
Pembridge, Selby, England, UK
Date signed: 04/11/2025
Issue Number: 004



For the most up-to-date version of the Declaration of Performance please scan or [click here](#).

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