



UK Declaration of Performance

Thermawall ®TW50

1000.UKDoP.TW50.001

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Unique identification code of the product-type:

Intended use/es:

Manufacturer:

System/s of AVCP:

Designated technical specification:

UK Assessment body/ies:

Thermawall® TW50

Thermal insulation for buildings

Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK

System 3 System 4 R+I

BS-EN 13165:2012+A2:2016

University of Salford:1145, B.I.T.S:1334

| Essential characteristics | | Performance | |
|---|---|--|--|
| Thermal resistance | Thermal resistance R_D ((m ² .K)/W) | d_N 20mm 0.95 d_N 30mm 1.35 d_N 40mm 1.80 d_N 50mm 2.25 d_N 60mm 2.70 d_N 70mm 3.15 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)) | d_N 20mm 0.022 d_N 150mm | |
| | 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 | |

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|---|---|-------------------------|
| | Determination of the aged values of thermal resistance and thermal conductivity | λ_D 0,022 W/m·K |
| Compressive strength | Compressive stress or compressive strength | CS(10\Y)140 |
| 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:



Ralph Mannion
Managing Director
Pembridge, Selby, England, UK
Date signed: 28/06/2021
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