



## **UK Declaration of Performance**

Kingspan Thermaroof® TR27 PB 1000.UKDoP.TR27PB.001 1001.UKDoP.TR27PB.001

Unique identification code of the product-type:

Intended use/es:

Manufacturer: System/s of AVCP:

Designated technical specification: UK Assessment/Notified body/ies:

Kingspan Thermaroof® TR27 PB 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, B.I.T.S: 1334

| UK Assessment/Notified body/ies: University of Salford: 1145, B.I.T.S: 1334 |   |  |                                    |  |
|---|---|--|------------------------------------|--|
| Essential characteristics   |   | Performance  |                                    |  |
| Thermal resistance  | Thermal resistance R <sub>D</sub> ((m².K)/W)  | d <sub>N</sub> 160mm (80mm + 80mm)   | 6.40                               |  |
|   |   | d <sub>N</sub> 170mm (120mm + 50mm)  | 6.85                               |  |
|   |   | d <sub>N</sub> 180mm (120mm + 60mm)  | 7.20                               |  |
|   |   | d <sub>N</sub> 190mm (130mm + 60mm)  | 7.60                               |  |
|   |   | d <sub>N</sub> 200mm (100mm + 100mm)                                       | 8.00                               |  |
|   |   | d <sub>N</sub> 210mm (130mm + 80mm)  | 8.60                               |  |
|   |   | d <sub>N</sub> 220mm (120mm + 100mm)                                       | 9.00<br>9.40                       |  |
|   |   | d <sub>N</sub> 230mm (130mm + 100mm)<br>d <sub>N</sub> 240mm (120mm +      | 10.00                              |  |
|   |   | 120mm)<br>d <sub>N</sub> 250mm (120mm +                                    | 10.40                              |  |
|   |   | 130mm)<br>d <sub>N</sub> 260mm (130mm +                                    | 10.80                              |  |
|   |   | 130mm)<br>d <sub>N</sub> 270mm (140mm +                                    | 11.20                              |  |
|   |   | 130mm)<br>d <sub>N</sub> 280mm (140mm +                                    | 11.60                              |  |
|   |   | 140mm)<br>d <sub>N</sub> 290mm (150mm +                                    | 12.05                              |  |
|   |   | 140mm)<br>d <sub>N</sub> 300mm (150mm +<br>150mm)                          | 12.50                              |  |
|   |   | Single Component<br>Only   |                                    |  |
|   |   | Flat board - Plant<br>1000   |                                    |  |
|   | Thermal conductivity λ <sub>D</sub> (W/(m.K)) | d <sub>N</sub> < 80mm<br>d <sub>N</sub> 80-119mm<br>d <sub>N</sub> ≥ 120mm | 0.027<br>0.025<br>0.024            |  |
|   |   | Flat board – Plant<br>1001   |                                    |  |
|   |   | $d_N < 80mm$ $d_N 80-119mm$ $d_N \ge 120mm$                                | 0.027<br>Not manufactured<br>0.024 |  |





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|   |  | The Thermal Conductivity listed above is for the single board components used to make up the pre-bonded product only. For the full Thermal resistance, see above table. |  |
|---|--|---|--|
|   | 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<br>and thermal conductivity<br>against ageing/<br>degradation | NPD   |  |
| Durability of Thermal Resistance against heat, weathering, ageing / degradation | Thermal resistance R <sub>D</sub> ((m².K)/W)  Thermal conductivity λD (W/(m.K))                | Thermal resistance as table above   |  |
|   | Durability characteristics   | NPD   |  |
|   | Dimensional stability under specified temperature and humidity condition                       | DS(70,90)3<br>DS(-20,-)1  |  |





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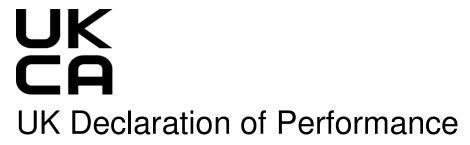
|   | Deformation under specified compressive load and temperature conditions         | NPD                          |
|---|---|------------------------------|
|   | Determination of the aged values of thermal resistance and thermal conductivity | λD 0,024, 0.025, 0,027 W/m·K |
| Compressive strength  | Compressive stress or compressive strength                                      | CS(10\Y)150                  |
| Tensile / Flexural strength                                     | Tensile strength perpendicular to faces   | NPD                          |
| Durability of compressive strength against ageing / degradation | Compressive creep   | NPD                          |
| agoing / aogradation  | Short term water absorption   | NPD                          |
| Water permeability  | 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:

Aiveen Kearney Managing Director

Pembridge, Selby, England, UK Date signed: 23/01/2023





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