

# UK Declaration of Performance

## EcoTherm Eco-Bond

1000.UKDoP.ETEB.001

1001.UKDoP.ETEB.001

Unique identification code of the product-type:

Intended use/es:

Manufacturer:

System/s of AVCP:

Designated technical specification:

UK Assessment/Notified body/ies:

**EcoTherm Eco-Bond**

**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 <sup>2</sup> .K)/W)                                      | d <sub>N</sub> 25mm 0.90<br>d <sub>N</sub> 30mm 1.10<br>d <sub>N</sub> 40mm 1.45<br>d <sub>N</sub> 50mm 1.85<br>d <sub>N</sub> 60mm 2.20<br>d <sub>N</sub> 70mm 2.55<br>d <sub>N</sub> 80mm 3.20<br>d <sub>N</sub> 90mm 3.60<br>d <sub>N</sub> 100mm 4.00<br>d <sub>N</sub> 120mm 5.00<br>d <sub>N</sub> 130mm 5.40<br>d <sub>N</sub> 140mm 5.80<br>d <sub>N</sub> 150mm 6.25<br>d <sub>N</sub> 160mm 6.65 |
|                                                                               | Thermal conductivity $\lambda_D$ (W/(m.K))                                            | Flat board -<br>Pembridge Plant<br>1000<br>d <sub>N</sub> < 80mm 0.027<br>d <sub>N</sub> 80-119mm 0.025<br>d <sub>N</sub> ≥ 120mm 0.024<br>Flat board – Selby<br>Plant 1001<br>d <sub>N</sub> < 80mm 0.027<br>d <sub>N</sub> 80-119mm Not manufactured<br>d <sub>N</sub> ≥ 120mm 0.024                                                                                                                     |
|                                                                               | 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 <sup>2</sup> .K)/W)                                | Thermal resistance as table above<br>Flat board - Pembridge Plant 1000<br><br>dN < 80mm                      0.027<br>dN 80-119mm                  0.025<br>dN ≥ 120mm                   0.024 |
|                                                                                 | Thermal conductivity $\lambda_D$ (W/(m.K))                                      | Flat board – Selby Plant 1001<br><br>dN < 80mm                      0.027<br>dN 80-119mm                  Not manufactured<br>dN ≥ 120mm                   0.024                               |
|                                                                                 | Durability characteristics                                                      | NPD                                                                                                                                                                                            |
|                                                                                 | Dimensional stability under specified temperature and humidity condition        | DS(70,90)3<br>DS(-20,-)1                                                                                                                                                                       |
|                                                                                 | Deformation under specified compressive load and temperature conditions         | NPD                                                                                                                                                                                            |
|                                                                                 | Determination of the aged values of thermal resistance and thermal conductivity | $\lambda_D$ 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                                         | TR80                                                                                                                                                                                           |
| 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: 25/11/2024  
Issue Number: 001



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

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