

# UK Declaration of Performance

## EcoTherm Eco-Cavity

1000.UKDoP.ETEC.002

1001.UKDoP.ETEC.002

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-Cavity**

**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> 40mm<br>d <sub>N</sub> 50mm<br>d <sub>N</sub> 60mm<br>d <sub>N</sub> 70mm<br>d <sub>N</sub> 75mm<br>d <sub>N</sub> 80mm<br>d <sub>N</sub> 90mm<br>d <sub>N</sub> 100mm | 1.80<br>2.25<br>2.70<br>3.15<br>3.40<br>3.60<br>4.05<br>4.50 |
|                                                                                 | Thermal conductivity $\lambda_D$ (W/(m.K))                                            | d <sub>N</sub> 40mm-<br>d <sub>N</sub> 100mm                                                                                                                                          | 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 <sup>2</sup> .K)/W)                                      | Thermal resistance as table above                                                                                                                                                     |                                                              |
|                                                                                 | Thermal conductivity $\lambda_D$ (W/(m.K))                                            | 0.022                                                                                                                                                                                 |                                                              |
|                                                                                 | 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       | $\lambda_D$ 0,022 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:

.....  
Siobhan O'Dwyer  
Managing Director  
Pembroke, Selby, England, UK  
Date signed: 26/09/2024  
Issue Number: 002



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

To access pre-existing product information or information relating to previously sold/discontinued products please email [literature@kingspaninsulation.co.uk](mailto:literature@kingspaninsulation.co.uk)

Previously issued under Ecotherm Insulation Ltd transferred to Kingspan Insulation Ltd