



Declaration of Performance

Kingspan GreenGuard® GG300

1001.CPR.GG300.2019.002

| | |
|---|--|
| Unique identification code of the product-type: | GreenGuard GG®300 |
| Intended use/es: | Thermal insulation for buildings |
| Manufacturer: | Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK |
| System/s of AVCP: | System 3 |
| Harmonised technical specification: | EN 13164:2012+A1:2015 |
| Notified body/ies: | BBA No.0836, BITS No.1334, Warringtonfire No. 0833, Efectis No. 2822, University of Salford No.1145 |

| Essential characteristics | | Performance | |
|---|---|---------------------------|------------|
| Thermal resistance | Thermal resistance R_D ((m ² .K)/W) | d _N 30mm | 0.85 |
| | | d _N 40mm | 1.10 |
| | | d _N 50mm | 1.40 |
| | | d _N 60mm | 1.65 |
| | | d _N 70mm | 1.90 |
| | | d _N 80mm | 2.20 |
| d _N 100mm | | 2.75 | |
| d _N 120mm | | 3.30 | |
| d _N 140mm | 3.85 | | |
| Thermal resistance | Thermal conductivity λ_D (W/(m.K)) | d _N 30 | 0.034 |
| | | d _N 40-50 | 0.035 |
| d _N >50 | | 0.036 | |
| Thermal resistance | Thickness tolerance | d _N <50 | T1 ±2mm |
| | | d _N 50-120 | T1 -2 +3mm |
| d _N >120 | | T1 -2 +6mm | |
| Thermal resistance | Length and width | ≤ 1500 mm | ± 8.0mm |
| | | > 1500 mm | ± 10.0mm |
| Thermal resistance | Squareness | Length and width ≤ 5 mm/m | |
| | | Flatness | ≤ 1500 mm |
| > 1500 mm | ≤ 6.0 mm/m | | |
| Reaction to fire | Reaction to fire | E | |
| Durability of reaction to fire against heat, weathering, ageing / degradation | Durability characteristics | NPD | |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Dimensional stability under specified temperature and humidity conditions | DS(70,90) | |
| | Deformation under specified compressive load and temperature conditions | DLT(2)5 | |
| Compressive strength | Compressive stress or compressive strength | CS(10/Y)300 | |
| Tensile / Flexural strength | Tensile strength perpendicular to faces | TR100 | |
| Durability of compressive strength against ageing / degradation | Compressive creep | NPD | |
| Water permeability | Long term water absorption by total immersion | NPD | |
| | Long term water absorption by diffusion | NPD | |
| | Freeze-thaw resistance after long term water absorption by diffusion | NPD | |
| Water vapour permeability | Water vapour transmission | MU80 | |
| Closed cell content | Closed cell content | CV98 | |
| Release of dangerous substances to the indoor environment | Release of dangerous substances | NPD | |
| NPD: No Performance Determined | | | |



Declaration of Performance

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

A handwritten signature in black ink, appearing to read "R. Mannion", with a long horizontal flourish extending to the right.

.....
Ralph Mannion
Managing Director UK and Ireland
Selby, England, UK
Version: 2
Version date: 11/9/2019
First signed: 1/1/2019