



Declaration of Performance

Kingspan Kooltherm® K112 Framing Board

1000.CPR.2013.K112.006

Unique identification code of the product-type:
Intended use/es:
Manufacturer:
System/s of AVCP:
Harmonised technical specification
Notified body/ies:

Kingspan Kooltherm® K112 Framing Board
Thermal insulation for buildings
Kingspan Insulation Ltd, Herefordshire HR6 9LA, UK
System 4 (Reaction to fire), System 3 (Other Properties)
BS-EN 13166:2012+A2:2016
KIWA:1640, FIW:0751

| Essential characteristics | | Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| Thermal resistance | Thermal resistance R_D ((m ² .K)/W) | <table border="0"> <tr><td>d_N 25mm</td><td>1.30</td></tr> <tr><td>d_N 30mm</td><td>1.55</td></tr> <tr><td>d_N 40mm</td><td>2.10</td></tr> <tr><td>d_N 50mm</td><td>2.60</td></tr> <tr><td>d_N 60mm</td><td>3.15</td></tr> <tr><td>d_N 70mm</td><td>3.65</td></tr> <tr><td>d_N 75mm</td><td>3.90</td></tr> <tr><td>d_N 80mm</td><td>4.20</td></tr> <tr><td>d_N 90mm</td><td>4.70</td></tr> <tr><td>d_N 100mm</td><td>5.25</td></tr> <tr><td>d_N 110mm</td><td>5.75</td></tr> <tr><td>d_N 120mm</td><td>6.30</td></tr> <tr><td>d_N 130mm</td><td>6.80</td></tr> <tr><td>d_N 140mm</td><td>7.35</td></tr> <tr><td>d_N 150mm</td><td>7.85</td></tr> </table> | d_N 25mm | 1.30 | d_N 30mm | 1.55 | d_N 40mm | 2.10 | d_N 50mm | 2.60 | d_N 60mm | 3.15 | d_N 70mm | 3.65 | d_N 75mm | 3.90 | d_N 80mm | 4.20 | d_N 90mm | 4.70 | d_N 100mm | 5.25 | d_N 110mm | 5.75 | d_N 120mm | 6.30 | d_N 130mm | 6.80 | d_N 140mm | 7.35 | d_N 150mm | 7.85 |
| | d_N 25mm | 1.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | d_N 30mm | 1.55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 40mm | 2.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 50mm | 2.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 60mm | 3.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 70mm | 3.65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 75mm | 3.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 80mm | 4.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 90mm | 4.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 100mm | 5.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 110mm | 5.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 120mm | 6.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 130mm | 6.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 140mm | 7.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d_N 150mm | 7.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thermal conductivity λ_D (W/(m.K)) | λ_D 0.019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thickness tolerance | T1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reaction to fire | Reaction to fire | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Durability of reaction to fire against heat, weathering, ageing / degradation | Durability Characteristics | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Durability of thermal resistance against heat, weathering, ageing/ degradation | Durability Characteristics | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dimensional stability under specified temperature and humidity condition | DS(70,90) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | DS(-20,-) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Determination of the aged values of thermal resistance and thermal conductivity | R_D and λ_D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compressive strength | Compressive stress or compressive strength | CS(Y)100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Declaration of Performance

| | | |
|---|---|-----|
| 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 |
| | Closed cell content | CV |
| Water vapour permeability | Water vapour transmission | NPD |
| | Closed cell content | NPD |
| Release of dangerous substances to the indoor environment | Release of dangerous substances | NPD |
| Continuous Glowing Combustion | Glowing combustion | NPD |
| NPD: No Performance Determined | | |

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:

.....
Aiveen Kearney
Managing Director
Pembridge, England, UK
Date signed: 08/08/2022
Version Number: 006

KI\GB\CPRDoPIK112\006\Aug22a