



IndiBreathe Flex

DECLARATION OF PERFORMANCE

Document No. IndiBreathe Flex INUK-RD-FR-01-06092024

1. Unique identification code of the product-type:

IndiBreathe Flex

2. Intended use:

Thermal insulation for buildings.

3. Manufacturer:

Industrial Nature UK Ltd, t/a IndiNature
Oxnam Road
Jedburgh, Scottish Borders
TD8 6NN, UK

4. Authorised representative

N/A

5. System or systems of AVCP (Assessment and Verification of Constancy of Performance):

System 3

6. Designated product standard:

UK Assessment Document UKAD 040005-00-1201:2015

7. Notified body:

Initial assessment of the building product by the British Board of Agrément, accredited Product Certification Body (No 0113); including accredited lab results, inspection of the manufacturing plant and factory production control.

8. Declared Performance

| Essential Characteristic | Performance | Test Standard |
|---|--|---------------------------|
| Thermal Conductivity | 0.039 W/m.K for 20-100mm 0.042 W/m.K for 120-140mm | BS EN 12667-2001 |
| Dimensional deviation of nominal length and width | Length ± 2.0 % Width ± 1.5 % | BS EN 822: 2013 |
| Dimensional deviation of nominal thickness | Class T4 -3 mm / +5% or +5 mm | BS EN 823: 2013 |
| Dimensional deviation of nominal squareness | 5 mm/m | BS EN 824: 2013 |
| Dimensional deviation of nominal flatness | 6 mm | BS EN 825: 2013 |
| Bulk Density | 34 kg/m ³ ± 5 % | BS EN 1602: 2013 |
| Water vapour transmission | PASS Resistance (Z) 0.1715 (h·m ² ·Pa·mg ⁻¹) Permeability (δ) 0.5684 mg/(h·m·Pa) Diffusion resistance factor (μ) 1.2532 | BS EN 12086: 2013 |
| Durability: Dimensional stability | PASS, conditioned for 48 h at (70 \pm 2%)°C and (90 \pm 5%)RH | BS EN 1604 : 2013 |
| Tensile Strength Parallel to Faces | PASS | BS EN ISO 29766 : 2022 |
| Bioresistance: growth of mould fungus | PASS ≤ 1 | BS EN 846: 1997 |
| Reaction to Fire | PASS Reaction to Fire Euroclass: E Smoke Class: s1 (best) Flaming Droplets Class: d0 (none) | BS EN 13501-1: 2018 |

9. Declaration

The performance of the product identified above is in conformity with the declared performance. This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Scott Simpson
Executive Director
06 Sept 2024

For over 20 years, Ecological Building Systems has been at the forefront of environmental and sustainable building products supplying a range of innovative airtightness solutions and natural insulations backed up with expert technical support.

As product suppliers in the UK and Ireland, we're happy to assist you with your projects and have expert technical and sales advice on hand.



Call us

Great Britain +44 (0)1228 711511

Ireland +353 46 9432104



Email us

info@ecologicalbuildingsystems.com



Find us

Great Britain Ecological Building Systems UK Ltd.,
Cardewlees, Carlisle, Cumbria, CA5 6LF,
United Kingdom

Ireland Ecological Building Systems Ltd.,
Main Street, Athboy. Co. Meath, C15 Y678,
Republic of Ireland