

Declaration of performance



according to Annex III of the Regulation (EU) No. 305/2011

Pura Core

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|---|---|
| Unique identification code of the product-type | PU_MD_25/0094 |
| Intended use or uses | Thermal insulation board for internal insulation of walls and ceilings |
| Manufacturer | redstone GmbH & Co. KG Haferwende 1 D-28357 Bremen Phone: +49 421 / 22 31 49 - 0 Fax: +49 421 / 22 31 49 - 90 E-mail: info@redstone.de |
| System or systems of assessment and verification of constancy of performance | System 3 |
| European Assessment Document | EAD 040012-00-1201 |
| European Technical Assessment | ETA-25/0094 |
| Technical Assessment Body | Deutsches Institut für Bautechnik |
| Notified body | Plant 7: Kiwa GmbH, MPA Berlin-Brandenburg (ID number: 0770) Plant 6: LGA BAUTECHNIK GMBH (ID number: 0780) |

| Essential characteristic | Harmonised standard | Performance |
|--|-----------------------------|---|
| Reaction to fire: | EN 13501-1:2018 | Class A1, non-flammable |
| Content and/or release of dangerous substances: | | The construction product does not contain or release any hazardous substances according to EOTA TR 034 (version October 2014). |
| Water vapour diffusion resistance coefficient: | EN 12086:2013 | $\mu = 3$ |
| Thermal conductivity (declared value): | EN 12667:2001 | $\lambda_{D(23,50)} = 0,043 \text{ W/(mK)}$ |
| Conversion of humidity: mass-related moisture content: - at 23 °C / 50 % relative humidity - at 23 °C / 80 % relative humidity mass-related moisture conversion coefficient: - dry to 23 °C / 50 % relative humidity - 23 °C / 50% to 23 °C / 80% relative humidity Moisture conversion factor: - dry to 23 °C / 50 % relative humidity - 23 °C / 50% to 23 °C / 80% relative humidity | EN ISO 10456:2007 + AC:2009 | U _{23.50} = 0.028 kg/kg U _{23.80} = 0.032 kg/kg fu1 = 0.42 fu2 = 1.98 Fm1 = 1.012 Fm2 = 1.01 |

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|---|---|---|
| Dimensions: | | |
| Nominal thickness | | 20 mm to 300 mm |
| Nominal length | | 350 mm to 1.000 mm |
| Nominal width | | 200 mm to 750 mm |
| Dimensional deviations (individual values) | | maximum deviation: |
| Length and width | EN ISO 29465:2022 | ± 2 mm; Class L(2) and W(2) according to EN 13163: 2012 +A2:2016 |
| thickness | EN ISO 29466:2022 (with a load of 250 Pa) | ± 2 mm |
| Perpendicularity in length and width directions | EN 824:2013 | $S_b \leq 4$ mm/m |
| Flatness | EN ISO 29468:2022 | $S_{max} \leq 2$ mm |
| Water absorbtion (individual values): | | |
| Procedure B, Conditioning: 40 °C to constant mass | EN ISO 29767:2019 | ≤ 2 kg/m ² |
| Procedure 1B, Conditioning: 40 °C to constant mass | EN ISO 16535:2019 | ≤ 3 kg/m ² |
| Density: | EN ISO 29470:2020 Conditioning: 105 °C to mass constancy | Density range (each individual value): 100 kg/m ³ - 115 kg/m ³ |
| Bending strength (individual value): | EN 12089:2013 Procedure B, Conditioning: 40 °C to constant mass | ≥ 80 kPa |
| Compressive strength: | EN ISO 29469:2022 40 °C to constant mass | Mean value of compressive strength: Individual values may be up to 10% below this value: ≥ 300 kPa |
| Dimensional stability under defined temperature and humidity conditions: | EN 1604:2013 | Dimensional changes in length, width and thickness: - max. $\pm 0,5\%$ - max. $\pm 0,5\%$ |
| - Conditioning: 48 h, (70 \pm 2) °C - Conditioning: 48 h, (23 \pm 2) °C, (90 \pm 5) % relative humidity | | |
| Tensile strength perpendicular to faces (individual value): | EN 1607:2013 | |
| - Conditioning: 40 °C to constant mass | | ≥ 80 kPa |
| Point load: | EN 12430:2013 | Deformation under a point load of 1.000 N $\leq 1,0$ mm PL(P)1 according to EN 13167:2012+A1:2015 |
| - Conditioning: 40 °C to constant mass | | |

The performance of the product is in conformity with the declared performances.

This declaration of performance is issued under the sole responsibility of the manufacturer in accordance with the Regulation (EU) No 305/2011.

Signed for and on behalf of the manufacturer by:

Bernd Osmers

Bremen, 07.03.2025

redstone GmbH & Co. KG
Haferwende 1
28357 Bremen
Fon: 0421 / 22 31 49-0
Fax: 0421 / 22 31 49-90
info@redstone.de

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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