

# Declaration of Performance



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

## Redboard pro

<b>Unique identification code of the product-type</b>	2019_RBP_G_19_0559
<b>Intended use or uses</b>	Thermal insulation board for internal insulation of walls and ceilings
<b>Manufacturer</b>	redstone GmbH & Co. KG Haferwende 1 28357 Bremen Tel.: +49 421 / 22 31 49 - 0 Fax: +49 421 / 22 31 49 - 90 E-Mail: info@redstone.de
<b>System or systems of assessment and verification of constancy of performance</b>	System 1 System 3
<b>European Assessment Document</b>	EAD 040012-00-1201
<b>European Technical Assessment</b>	ETA-19/0559 (30.10.2019)
<b>Technical Assessment Body</b>	Deutsches Institut für Bautechnik
<b>Notified body</b>	Materialprüfungsamt Nordrhein-Westfalen; (NB 0432)

Essential characteristic	Harmonised standard	Performance
<b>Reaction to fire</b>	EN 13501-1	Class A1
<b>Release of dangerous substances</b>	EN 16516	No dangerous substances released
<b>Water vapour diffusion resistance coefficient</b>	EN 12086	$\mu = 3$
<b>Thermal conductivity</b> (at mean reference temperature of 10 °C)	EN 12667	$\lambda_{D(23,50)} = 0,059 \text{ W/(mK)}$
<b>Conversion of humidity</b>	EN ISO 10456	
Mass-related moisture content		$U_{23,50} = 0.014 \text{ kg/kg}$ $U_{23,80} = 0.021 \text{ kg/kg}$
Mass-related moisture conversion coefficient		$f_{u1} = 0$ (dry to 23 °C / 50% rel. humidity)  $f_{u2} = 2,11$ (23 °C / 50% rel. humidity to 23 °C / 80% rel. humidity)
Moisture conversion factor		$F_{m1} = 1,00$ (dry to 23 °C / 50% rel. humidity)  $F_{m2} = 1,01$ (23 °C / 50% rel. humidity to 23 °C / 80% rel. humidity)

<b>Dimensions/geometry</b>		
Nominal thickness		20 mm to 120 mm
Nominal length		625 mm; 1250 mm
Nominal width )		500 mm; 1000 mm
Length and width	EN 822	± 2 mm class L(2) and W(2) acc. to EN 13163:2013
Thickness	EN 823	± 2 mm
Squareness: in direction of length and width in direction of thickness	EN 824	$S_b \leq 4 \text{ mm/m}$ $S_d \leq 2 \text{ mm}$
Flatness (direction of length and width)	EN 825	$S_{\text{max}} \leq 2 \text{ mm}$
<b>Water absorption</b>	EN 1609	No performance assessed
<b>Density</b>	EN 1602	180 kg/m <sup>3</sup> - 187 kg/m <sup>3</sup>
<b>Bending strength</b>	EN 12089	No performance assessed
<b>Compressive strength</b>	EN 826	1000 kPa
<b>Dimensional stability</b>	EN 1604	
at 70 °C		≤ 0.5 %
at 23 °C / 90% relative humidity		≤ 0.5 %
<b>Tensile strength (perpendicular to faces)</b>		No performance assessed
<b>Point load</b>		No performance assessed
<b>Porosity</b>		No performance assessed

\*) Redboard Window Soffit Boards (Nominal dimensions 500 mm x 250 mm x 15 mm) and Redboard Wedge-Shaped Boards with decreasing thickness across the width (Nominal dimensions 1250 mm x 500 mm x 30/8 mm und 625 mm x 250 mm x 25/3 mm) are also covered by the ETA.

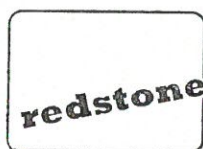
The performance of the product is in conformity with the declared performances.

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, 1.10.2020



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