

Declaration of Performance



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

Redboard pro

Unique identification code of the product-type	2019_RBP_G_19_0559
Intended use or uses	Thermal insulation board for internal insulation of walls and ceilings
Manufacturer	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
System or systems of assessment and verification of constancy of performance	System 1 System 3
European Assessment Document	EAD 040012-00-1201
European Technical Assessment	ETA-19/0559 (30.10.2019)
Technical Assessment Body	Deutsches Institut für Bautechnik
Notified body	Materialprüfungsamt Nordrhein-Westfalen; (NB 0432)

Essential characteristic	Harmonised standard	Performance
Reaction to fire	EN 13501-1	Class A1
Release of dangerous substances	EN 16516	No dangerous substances released
Water vapour diffusion resistance coefficient	EN 12086	$\mu = 3$
Thermal conductivity (at mean reference temperature of 10 °C)	EN 12667	$\lambda_{D(23,50)} = 0,059 \text{ W/(mK)}$
Conversion of humidity	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)

Dimensions/geometry		
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	$S_{\text{max}} \leq 2 \text{ mm}$
Water absorption	EN 1609	No performance assessed
Density	EN 1602	180 kg/m ³ - 187 kg/m ³
Bending strength	EN 12089	No performance assessed
Compressive strength	EN 826	1000 kPa
Dimensional stability	EN 1604	
at 70 °C		≤ 0.5 %
at 23 °C / 90% relative humidity		≤ 0.5 %
Tensile strength (perpendicular to faces)		No performance assessed
Point load		No performance assessed
Porosity		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.

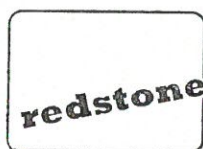
The performance of the product is in conformity with the declared performances.

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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