

BB

Description

STIFERITE BB is a high performance insulation board manufactured from CFC or HCFC free, closed cell polyisocyanurate (PIR) foam. It's covered on both side by bituminous paper.

Guideline for drafting of technical specifications

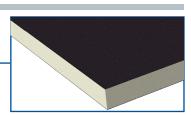
Thermal insulation **STIFERITE BB** in polyiso rigid foam (PIR) of thickness ... (*), covered on both side by bituminous paper, has:

Declared thermal resistance: R_p= ... m²K/W (EN 13165 Annex A and C)

... (it is recommended to complete the technical specification using the most relevant features and performance for the specific application)

STIFERITE BB is produced of Company certified according to: UNI EN ISO 9001 quality management system, UNI EN ISO 14001 environmental management system, UNI EN ISO 45001 occupational health and safety management system, and it has CE marking and labelling. The Environmental Product Declaration (EPD) by Third Party Liability and the Environmental Minimum Criteria (CAM) in accordace with Green Public Procurement (GPP) are available.

(*) Parameters change according to thickness or system. To determine the values corresponding to the thickness used, please use the specifications indicated on this technical sheet.



Dimensions

length and width 600 x 1200 mm nominal thickness [d] EN 823: from 20 to 120 mm

Main applications

Insulation for walk-on roofs and with slate chips' finish mantles Floor insulation



■ MAIN CHARACTERISTICS AND PERFORMANCE - Relevant to the CE marking [UNI EN 13165]

Declared thermal conductivity - λ_D [W/mK]
UNI EN 13165 Annessi A e C

Value determined at an average temperature of 10° C see table - values according to thickness

- Declared thermal resistance $R_D = d/\lambda_D$ $[m^2K/W]$ see table values according to thickness
- Declared thermal transmittance $U_D = \lambda_D/d$ [W/m²K] see table values according to thickness
- Reaction to fire
 EN 13501-1, EN 11925-2, EN 13823
 F EUROCLASS
- Compressive stress at 10% deformation σ₁₀ [kPa] EN 826
 - > 150 [CS(10/Y)150] CE Designation code
- Tensile strength perpendicular to faces σ_{mt}[kPa] EN 1607

> 40 [TR40] CE Designation code

Water vapour diffusion resistance factor - μ EN 12086

 87 ± 19 [MU87] CE Designation code

Short term water absorption by partial immersion [kg/m²] FN 1609

< 0,3 [WS(P)0,3] CE Designation code

Long term water absorption by total immersion [% weight] FN 12087

< 5 [WL(T)2] CE Designation code

Deviation from flatness after one-sided wetting [mm] EN 13165

≤ 20 [FW1] CE Designation code

Flatness tolerance S_{max} [mm] EN 825

± 5 Area < 0,75 m² ± 10 Area > 0,75 m²

d mm	λ _D W/mK	$ m R_{_{D}}$ $ m m^2 K/W$	$U_{_{\mathrm{D}}}$ W/m 2 K
20		0,74	1,35
30	0,027	1,11	0,90
30 40		1,48	0,68
50 60		1,92	0,52
60	0,026	2,31	0,43
80		3,08	0,33
100	0,025	4,00	0,25
120		4,80	0,21

■ Dimensional stability [level]

EN 1604

48 h, 70° C, 90% R.H.

3 per $d \le 40$ mm [DS(70;90)3] CE Designation code 4 per d > 40 mm [DS(70;90)4] CE Designation code

48 h, -20° C

2 [DS(-20;0)2] CE Designation code

Tolerances [mm]

EN 13165

Length and width

± 5 < 1000 mm [T2] CE Designation code

± 7,5 da 1001 a 2000 mm [T2] CE Designation code

Thickness [mm]

± 2 < 50 mm [T2] CE Designation code

± 3 da 50 a 75 mm [T2] CE Designation code

+ 5/-2 ≥75 mm [T2] CE Designation code



OTHER CHARACTERISTICS AND PERFORMANCE

Overall density - p [kg/m³] EN1602 Board average value 43 ± 1.5

Specific heat - Cp [J/kg° K] Average value 1458

Compressive stress at 2% deformation - σ_2 [kg/m²] EN 826 > 5000

Deformation under compressive load and temperature conditions - ε_d [%]

≤5-load 20 kPa at 80° C for 48 h [DLT(1)5] CE Designation code

Compressive Creep - ε_d [%] EN 1606 <1.5 d = 200 mm [CC(1.5/1.0/50)25] CE Designation code

Water vapour resistance - Z [m²hPa/mg] EN 12086 6,9 - 13

Dimensional stability [% Relative changes] EN 1604 7 d, 70° C

Weight percentage of recycled material - [%]

< 1

Procedure REMADE®

ADDITIONAL REPORTS AND CERTIFICATION

Management System Certification:
- UNI EN ISO 9001 quality management system,

- UNI EN ISO 14001 environmental management system,

- UNI NE ISO 45001 occupational health and safety management system

Environmental Product Declaration (EPD) by Third party liability ISO 14025 and EN 15804

Dynamic stiffness - s't [MN/m³]

EN 29052-1 see "Isolamento Acustico" technical notebook on www.stiferite.com CLASS SK product

Reaction to fire - continuous smouldering combustion EN 16733 No continuous smouldering combustion

NOTES

Temperature stability

Stiferite panels can be used in a continuous temperature range of -40° C to +110° C. For periods of time they can withstand temperatures up to + 200° C, or equivalent to the softening temperature of bitumen, without any particular problems. Long exposures at temperatures above + 110° C may cause deformations to the foam or coatings, but do not cause sublimation or melting.

Aspect

Any small non-adhesion areas between the facers and the foam or holes originate from the production process and they do not in any way affect the physical-mechanical properties of the panels. A prolonged exposure of polyurethane foam to UV rays can cause surface oxidation, the phenomenon does not affect the basic characteristics and performance of the panel.

Packaging & Storage

STIFERITE panels of standard sizes are normally packed with PE, in closed packages with CE mark label. Store the packages raised from the ground. For long periods, store the packages in wet area.

Warning

The dată shown in this sheet are binding for the features and performances provided by the CE marking. Other features and additional information may be modified even if no specific signal is available

Other notes

To obtain technical data not covered in this Technical Data Sheet, contact the Stiferite Technical Office