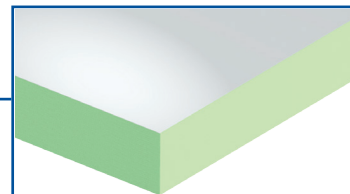


ALE



■ Description

STIFERITE ALE is a high performance insulation board manufactured from CFC or HCFC free closed cell rigid polyisocyanurate PIR foam. It's covered with an 80 µm embossed aluminum foil and a 200 µm embossed aluminum foil.

■ GUIDELINE for drafting of technical specifications

Thermal insulation **STIFERITE ALE** in polyiso rigid foam (PIR) of thickness...(*), covered on one side with an 80 µm embossed aluminum foil and a 200 µm embossed aluminum foil, has:
... (it is recommended to fill in the tendering specifications indicating the features and performance more relevant for the specific application)

Product of company certified according to quality management system UNI EN ISO 9001:2008, Environmental Management System UNI EN ISO 14001:2004, occupational Health and Safety Management OHSAS 18001:2007.

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

■ Dimensions

Width and length
1200 x 4000 mm

■ Thickness

20 mm and 30 mm

■ Main application

For the construction pre-insulated aluminum ducts for air distribution

MAIN CHARACTERISTICS AND PERFORMANCES

■ insulating material density - ρ [kg/m³]

EN 1602 - average value
45 ± 3.0

■ Average thermal conductivity - $\lambda_{9090,1}$ [W/mK]

EN 13165 Annex A and C
Value determined 10° C
0.021

■ Resistance against pressure

EN 13403
The duct resists at the maximum pressure of 3750 Pa

■ Air leakage classification

EN 13403, EN 1507
Stiferite duct constructed using bayonet profiles is in B class

■ European fire reaction- Stiferite duct

EN 13501-1, EN 11925-2, EN 13823
B s2 d0

■ British fire reaction class - Stiferite board

BS476: part 6:1989
0 Class
BS476: part 7:1997
1 Class
BS476: part 6/7
0 Class

■ Rigidity class

EN 13403
300.000 (R5)

■ Acoustic experimental values - dB

EN ISO 7235
Insertion loss in octave band

| Frequency Hz | Duct Dimensions 200 x 200 1 m | Duct Dimensions 400 x 400 1 m | Duct Dimensions 600 x 600 1 m |
|-----------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | dB | dB | dB |
| 63 | 1,4 | 1,8 | 0,1 |
| 125 | 0,6 | 1,5 | 3,2 |
| 250 | 0,7 | 4,0 | 1,7 |
| 500 | 3,3 | 1,3 | 1,0 |
| 1000 | 2,4 | 1,0 | 0,9 |
| 2000 | 1,3 | 1,0 | 0,7 |
| 4000 | 1,2 | 0,7 | 0,6 |
| 8000 | 2,3 | 1,6 | 1,2 |

■ Blowing agent

EN 15804
OPD (ozone depletion potential) = 0 and GWP (global warming potential) does not include in CML IA:2016

■ Tolerance [mm]

EN 13165
width and length
± 7,5 for 1200mm
± 10 for 4000 mm
Thickness
± 1 mm

NOTES

■ Stability to the temperature

Stiferite panels are used in a range of continuous temperatures normally included between -40° C and +110° C. Long exposures to the temperatures could cause deformations to the foam or to the coats, but without causing sublimation or fusion.

■ Aspect

Prolonged exposure of the polyurethane foam to UV rays can cause surface oxidation, the phenomenon does not affect the basic characteristics and performance of the panel.

■ Packaging & Storage

The Stiferite panels of standard sizes are normally packed in PE, in closed packages and labeled. Store the packages off the ground. Store them for long periods indoor and dry.

■ Warning

The data reported in this document is binding on the features and benefits provided. Other features and additional information can also be changed in the absence of specific signals.

■ Other information

Call Stiferite technical office ph. **+39 0498997911**