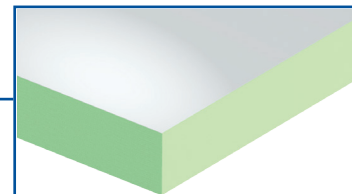


# AAL



## ■ Description

**STIFERITE AAL** is a high performance insulation board manufactured from CFC or HCFC free closed cell rigid polyisocyanurate PIR foam. It's covered between an 80 µm embossed aluminum facing and an 80 µm smooth aluminum facing lacquered with an antimicrobial material.

## ■ GUIDELINE for drafting of technical specifications

Thermal insulation **STIFERITE AAL** in polyiso rigid foam (PIR) of thickness...(\*), covered on one side with embossed aluminum 80 µm and on the other side with smooth aluminum 80 µm lacquered with an antimicrobial material, 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 45001:2018, 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

20,5 mm and 30,5 mm

## ■ Main application

For the construction pre-insulated aluminum ducts for air distribution

## MAIN CHARACTERISTICS AND PERFORMANCES

### ■ insulating material density - $\rho$ [kg/m<sup>3</sup>]

EN 1602 - average value  
**35 ± 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  
**Isocanale system realized both with invisible flange and, without profiles, with 45° or rabbeted connections, is in class C**

### ■ European fire reaction- Stiferite duct

EN 13501-1, EN 11925-2, EN 13823  
**B s1 d0 - 20 and 30 mm**

### ■ British fire reaction class - Stiferite board

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

### ■ Smoke toxicity

British Naval Engineering Standard NES 713  
**< 4.5**

### ■ Release of dangerous substances

ISO 16000-9, ISO 16000-6  
**Available on request**

### ■ 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	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			

### ■ Rigidity class

EN 13403  
**200.000 (R4)**

### ■ Antimicrobial activity

ISO 22196  
**> 99%, available test report on request**

### ■ Blowing agent

UNI 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 1200 mm**  
**± 10 for 4000 mm**  
Thickness  
**± 0,7 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**