



Thermal panels

The **aluminium foam panels** are part of the **CONSERVATORY** product range. They are used in order to improve the thermal insulation of homes.

The panels are composed with an insulating foam in extruded polystyrene that provides:

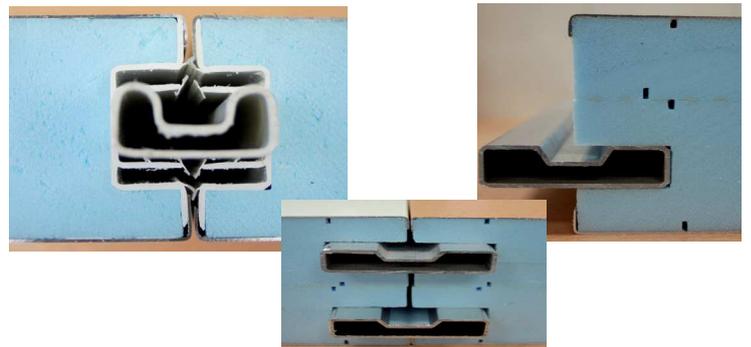
- High thermal insulation,
- No humidity absorption,
- Excellent mechanical properties due to a double component sealing.

The faces of our foam panels are 8/10th thick aluminium sheets covered with an outside polyester lacquer available in white or different standard colors.

AV Composites' panels, together with their junction systems are protected by numerous patens!



Filling range: thickness of 16, 32, 52, 82, 102, 164 mm
References: X16, X32, X52, X82, X102, X164



Self-supporting range: thickness of 52, 82, 102, 164 mm
References: AX52, X82R16, X102R16, X164R16



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Authorized Retailer

Prizewinner of the 2010 INPI Innovation Trophies
Prizewinner of the 2010 DELOITTE Technology Fast 50



Technical Specifications

1 Covering

External and internal facing

Aluminium sheet (thickness 8/10th) lacquered with a polyester resin and a UV resistant film

Color chart

White 9010 (bright), Ivory 1015 (bright), Roussillon (Terracotta), Brown 8004 (dull)

Color chart inside options

White 9010 (bright), White 9010 (grainy) Novastripe®, Primary

2 Core of the panel

Insulating core

Extruded polystyrene, $\lambda = 0.028$, without CFC

3 Assembling

Filling range

Tight by a profil system

Self-supporting range

. Tight by junction keys on a PVC side lining, with 2 double draining channels of flow and 7 water-resistive barriers
. Tight by aluminium junction keys into the groove in the extruded polystyrene

4 Gluing

Polyurethane two-component adhesive

5 Thickness of finished panels

Filling range: 16, 32, 52, 82, 102, 164mm

Self-supporting range: 16, 32, 52, 82, 102, 164mm

6 Panels specifications

Thermal loss coefficient

$U = K = 1,55 (16) - 0,82 (32) - 0,51 (52) - 0,32 (82) - 0,26 (102) - 0,16 (164) W / K.m^2$

Thermal Resistance R

$R = 0,64 (16) - 1,21 (32) - 1,92 (52) - 3,04 (82) - 3,71 (102) - 5,94 (164) K.m^2 / W$

Maximal scope of the self-supporting panels:

4500 (AX 52 & X52 R16), 5500 (X102 R16), 6000 (X164 R16)*

* Caution: in case of a flat roof installation, the slope steepness must be of 2 % = maximal scope of 4500 mm

Admissible load for an 1/50 bending:

93 (AX 52 & X52 R16), 175 (X102 R16), 175 (XA164 R16) daN/m²

Fire resistance

M1 Quality, according to LNE N° P107497 certification

7 Dimensions - Weights

Width 1195 mm

Length 2500 à 7500 with steps of 250mm

Weight 5,25 (16) - 5,78 (32) - 6,44 (52) - 6,98 (82) 8,24 (102) - 10,3 (164) kg/m²

8 Warranty

Company Civil Insurance N° 2/700062



The installation of our systems must be made with the accessories of the AV Composites range. In case of dispute, the guarantees only apply if the user recommendations contained in our data sheets and Technical Notice, are met. Dark exterior color holding (such as: Slate) can not be guaranteed in time. The advice and technical data refer to real informations and practical experiences. They are offered in good faith but without guarantee, since the conditions and methods of use are not under our control. We reserve the right to make change at any time without notice.