## Silence Foam Panel Outer Membrane



## Silence very acoustic panels with outer membrane

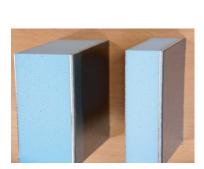
The aluminium silence foam panels are part of the CONSERVATORY product range. They are used to improve houses' thermal and acoustic insulation.

They ensure an optimal improvement of the acoustic insulation: mitigation of the impact noise thanks to the outer membrane which prevents the exterior aluminium cladding from vibrating.

The panels are composed with an insulating foam in extruded polystyrene and an outer membrane that provide:

- High acoustic absorption thanks to the mitigation of the impact noise
- Reduction of the bi-lame effect thanks to the protection on the exterior aluminium cladding
- Excellent mechanical properties

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





Filling range: thickness of 32, 55, 60, 66, 85, 105 and 168mm References: X32S, X55S, X60S, X66S, X85S, X105S, X168S





Self-supporting range: thickness of 55, 85, 105 and 168mm References: AX55S, X55SR16, X60SR16, X66SR16, X85SR16, X105SR16, X168SR16



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## Technical Specifications

Covering
External and internal facing
Aluminium sheet (thickness 8/10th)
Interior facing: lacquered with a polyester
White 9010 resin and a UV resistant film
Acoustic membrane: complex of a non-woven

Color chart of the acoustic membrane
White 9016, Brown 8004, Grey 7016, Brown 8011
Color chart inside options
White 9010 (grainy) Novastripe®, Primary

associated with an acoustic membrane in PVC

- 2 Core of the panel Exterior insulating core Extruded polystyrene, without CFC Declared thermal conductivity: λ = 0.028 W/m.K EN 12667 12939
- Assembling
  Filling range
  Tight by a profil system

Self-supporting range
. Tight by junction keys on a PVC side linning, 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
- Thickness of finished panels
  Filling range: 32, 55, 60, 66, 85, 105, 168mm
  Self-supporting range: 55, 85, 105, 168mm

Panels specifications Thermal loss coefficient U = K = 0,82 (32) - 0,49 (55) - 0,45 (60) - 0,41 (66) 0,31 (85) - 0,26 (105) - 0,16 (168) W/K.m<sup>2</sup>

Thermal Resistance R R= 1,20 (32) - 2,03 (55) - 2,18 (60) - 2,39 (66) 3,14 (85) - 3,81 (105) - 6,04 (168) K.m² / W

Acoustic attenuation of the impact noise 55mm: -32dB

Improvement of 5000Hz for a X55S or an AX55S panel compared to a standard X52 panel. Tested on a test bed at AV Composites' with a SVAN 953 sound level meter

Maximal scope of the self-supporting panels: 4500 (AX55S, X60SR16 & X66SR16), 5000 (X85SR16), 5500 (X105SR16), 6000 (X168SR16)\*

\* Caution: in case of a flat roof installation, the

\* 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 (AX55S), 113 (X60SR16 & X66SR16), 153 (X85SR16), 175 (X105SR16) - 258 (X168SR16) daN/m<sup>2</sup>

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 7,82 (32) - 8,58 (55) - 8,86 (60) - 8.91 (66) 9,61 (85) - 10.38 (105) - 12,44 (168) kg/m<sup>2</sup>

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 guaranted in time. The advice and technical data refer to real information 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.