CONSERVATORY
NOVATOIT®

Acoustic FOAM Panel

Acoustic panels with a heavy mass

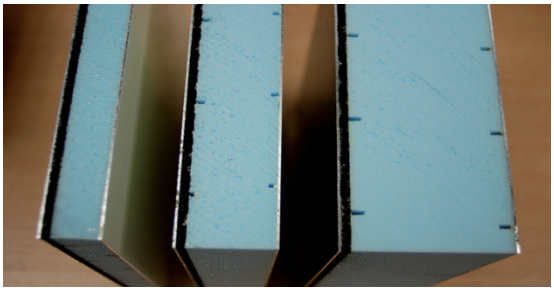
The aluminium acoustic foam panels are part of the CONSERVATORY product range. They are used to improve the houses' thermal and acoustic insulation.
They improve the mitigation of the noise generated by the falling rain.

The panels are composed with an insulating foam in extruded polystyrene and an anti-vibration elastomeric mass that provide:

- High thermal insulation,
- No humidity absorption,
- Excellent mechanical properties

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 patents !



Filling range: thickness of 19, 32, 55, 60, 66, 85, 105 mm
References: XA19, XA32, XA55, XA60, XA66, XA85, XA105

Self-supporting range: thickness of 55, 66, 85, 105 mm
References: AXA55, XA55R16, XA66R16, XA85R16, XA105R16

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

Authorized Retailer

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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) Grey 7024 (dull), Nut Brown 8011 (dull)

Color chart inside options
White 9010 (bright),
White 9010 (grainy) Novastripe®, Primary

2 Core of the panel

Insulating core
Extruded polystyrene, λ = 0.028, without CFC

3 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

5 Thickness of finished panels

Filling range: 19, 32, 55, 60, 66, 85, 105mm
Self-supporting range: 55, 60, 66, 85, 105mm

6 Panels specifications

Thermal loss coefficient
U = K = 1,39 (19) - 0,84 (32) - 0,49 (55) 0,45 (60) - 0,41 (66) - 0,32 (85) 0,26 (105) W / K.m²

Thermal Resistance R
R= 0,71 (19) - 1,18 (32) - 2 (55) - 2,18 (60) 2,39 (66) - 3,11 (85) - 3,79 (105) K.m² / W

Maximal scope of the self-supporting panels: 4500 (AXA55 & XA55R16), 4750 (XA60R16 & XA66R16), 5500 (XA105R16)

Admissible load for an 1/50 bending:
93 (AXA55 & XA55R16)
113 (XA60R16 & XA66 R16),
175 (XA105 R16) daN/m²

Acoustic attenuation of the impact noise
55mm : -15dB
Improvement of 4000Hz for a XA55 or a AXA55 panel compared to a standard X52 panel.
Tested on a test bed at AV Composites' with a SVAN 953 sound level meter

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 7,5 (19) - 7,93 (32) - 8.69 (55) - 9,02 (66) - 9,72 (85) - 10,49 (105) 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 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.