



Acoustic panel with a light mass

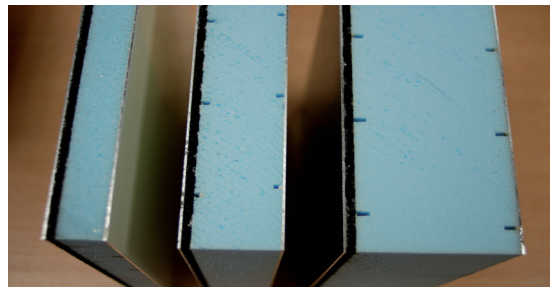
The **aluminium acoustic foam panels** are part of the **CONSERVATORY** product range. They are assembled with a bonding technique with a bi-component polyurethane glue which allows excellent mechanical properties and guarantees the quality.

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

- 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 patens!



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, 60, 66, 85, 105 mm
References: AXA55+, XA55R16+, XA60R16+, XA66R16+, XA85R16+, XA105R16+



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

Authorized Retailer:



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, $\lambda = 0.028$, 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: 19, 32, 55, 60, 66, 85, 105mm
Self-supporting range: 55, 60, 66, 85, 105mm
- 6 Panels specifications**
Thermal loss coefficient
 $U = K = 1,39 (19) - 0,84 (32) - 0,49 (55) - 0,41 (66) - 0,32 (85) - 0,26 (105) W / K.m^2$

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

Maximal scope of the self-supporting panels: 4500 (AXA55+ & XA55 R16+ & XA60 R16+), 4500 (XA66 R16+), 5000 (XA85 R16+), 5500 (XA105 R16+)

Admissible load for an 1/50 bending:
 93 (AXA 55+ & XA55 R16+), 113 (XA60 R16+ & XA66 R16+), 154 (XA85 R16+), 175 (XA105 R16+) daN/m²

Acoustic attenuation of the impact noise 55mm : -7dB
 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 5,64 (19) - 6,07 (32) - 6,83 (55) - 7 (60) - 7,16 (66) - 7,86 (85) - 8,64 (105) kg/m²
- 8 Warranty**
 Company Civil Insurance N° 2/700062

