



Three-layer very acoustic panel

The **aluminium three-layer phonic panels** are part of the **CONSERVATORY** product range. They are used in order to improve the thermal and acoustic insulation of homes.

They ensure a double improvement of the acoustic insulation: mitigation of impact and transmission noises thanks to the mass-spring-mass constitution of the panel and the density difference of the materials inside.

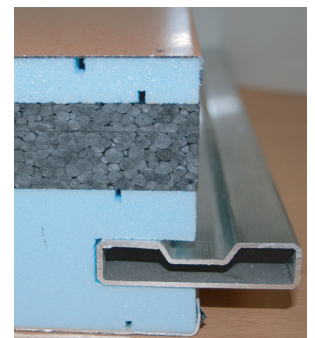
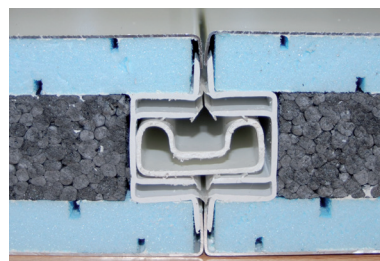
The panels are composed with an insulating foam in extruded polystyrene and an elastomeric mass that provide:

- High acoustic absorption thanks to a sound waves' vibration damping due to the mass - spring - mass composition of the panel
- **Reduction of the bi-lame effect** thanks to the elastification of the insulating center foam
- Excellent puncture resistance

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



Filling range: thickness of 58, 65, 95mm
References: XTA58, XTA65, XTA95



Self-supporting range: thickness of 58, 95 mm
References: AXTA58, XTA95R16



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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)

Color chart inside options

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

2 Core of the panel

Exterior insulating core

Extruded polystyrene, without CFC

Interior insulating core

In Neopor composed of elasticized polystyrene

Declared thermal conductivity (λ) :

- Extruded: 0.028W/m.K - EN 12667 - 12939
- Neopor: 0.031 W/m.K - EN 12667 - 12939

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: 58, 65, 95mm

Self-supporting range: 58, 95mm

6 Panels specifications

Thermal loss coefficient

U = K = 0,48 (58) - 0,43 (65) - 0,29 (95) W/K.m²

Thermal Resistance R

R = 2,06 (58) - 2,32 (65) - 3,35 (95) K.m² / W

Acoustic attenuation of the impact noise

58mm : -19dB

Improvement of 3150Hz for a XTA58 or a AXTA58 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:

4000 (AXTA58),
4700 (XTA95 R16)

Admissible load for an 1/50 bending:

35 (AXTA58), 110 (XTA95 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 6,59 (58) - 6,90 (65) - 7.78 (95) kg/m²

8 Warranty

Company Civil Insurance N° 2/700062

