



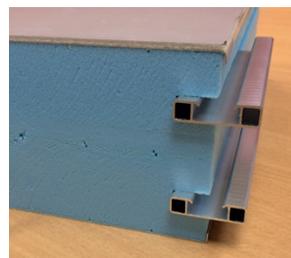
Flat Roof Panels

The **Flat Roof Panels** of the **CONSERVATORY NOVATOIT** range offer a contemporary and refined design while perfectly matching any kind of building.

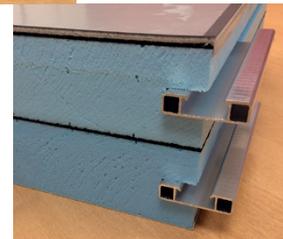
After the launch and the generalisation of the very low slope flat roofs, AV Composites introduces its brand new thermo-acoustic panels that are ever more efficient.

A great dimensional stability is offered thanks to the outer membrane that lessens the aluminium cladding increase of temperature and to the internal aero-stabilized complex.

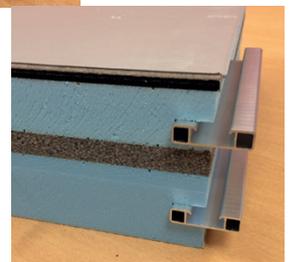
These Flat roof Panels can be equipped with FLAT or PYRAMIDAL skylights.



X168SR16



XAA168SR16



XAQAPP168SR16



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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)

Interior facing: lacquered with a polyester White 9010 resin and a UV resistant film

Acoustic membrane: complex of a non-woven associated with an acoustic membrane in PVC

Color chart of the acoustic membrane

White 9016, Copper brown 8004,
Grey 7016, Nut Brown 8011

Color chart inside options

White 9010 (grainy) Novastripe®, Primary

2 Core of the panel

Exterior insulating core

Extruded polystyrene, without CFC

Elastomeric mass

Polypro

Declared thermal conductivity :

$\lambda = 0.028 \text{ W/m.K} - \text{EN } 12667 - 12939$

3 Assembling

Self-supporting range

. Tight by junction keys on a PVC side lining, with 2 double draining channels of flow and 7 water-resistant barriers

. Tight by aluminium junction keys into the groove in the extruded polystyrene.

4 Gluing

Polyurethane two-component adhesive

5 Thickness of finished panels

Self-supporting range: 168mm

6 Panels specifications

Thermal loss coefficient

$U = K = 0,165 \text{ (168SR16)} - 0,167 \text{ (XAA168SR16)}$
 $0,173 \text{ (XAQAPP168SR16)} \text{ W/K.m}^2$

Thermal Resistance R

$R = 6,044 \text{ (X168SR16)} - 5,981 \text{ (XAA168SR16)}$
 $5,778 \text{ (XAQAPP168SR16)} \text{ K.m}^2 / \text{W}$

Acoustic attenuation of the impact noise

- X168SR16 : LIA = 50,2 dB (A)

- XAA168SR16 : LIA = 49,1 dB (A)

- XAQAPP168SR16 : LIA = 34,1 dB (A)

On frequency range

1250 - 5000 Hz

Acoustic simulation base with

Acousys CSTB software

Maximal scope of the self-supporting panels: 4500*

* Caution : in case of a flat roof installation, the slope steepness must be of 2%

Admissible load for an 1/50 bending:

258 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 12,44 (X168SR16) - 17,20 (XAA168SR16)

15,74 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.