



OUTDOOR NOVATOIT®

**FLAT TECH Panel ISIWATT®
PERGOLA CARPORT GAZEBO**



Flat roof panels with integrated slope Special Outdoor **ISIWATT® with integrated wire channel**

The new generation of **FLAT TECH** and **FLAT TECH SILENCE** flat roof panels of the NOVATOIT range can be used to create roofs for pergolas, carports or gazebos with no visible structure or slope. The **ISIFIX®** version can be used to fasten traditional roofing elements, vegetation planters or photovoltaic panels on the outside.

FLAT TECH panels feature a perfectly flat ceiling on the inside and an **2% pitched roof** on the outside, optimizing the height under the eaves up to 5.5 m in projection.

The new option **FLAT TECH ISIWATT®** allows the integration of one or two cable channels (CC1 or CC2) in the center of the panel, for the installation of a low-voltage electrical network and lighting on the inside of the panels, while maintaining the panels' initial mechanical characteristics and waterproofing.

The acoustic version, **FLAT TECH SILENCE**, with an outer membrane improves panel stability and provides enhanced acoustic comfort.



Reference Flat Tech **ISIWATT®** :

X176FT2 R16CC1 (ou CC2) 3000/3500/4000/4500

X208FT2 R16CC1 (ou CC2) 5000/5500

Reference Flat Tech Silence **ISIWATT®** :

X181FT2S R16CC1 (ou CC2) 3000/3500/4000/4500

X212FT2S R16CC1 (ou CC2) 5000/5500

Reference Flat Tech **ISIFIX® ISIWATT®** :

XP188FT2 R16CC1 (ou CC2) 3000/3500/4000/4500

XP213FT2 R16CC1 (ou CC2) 5000/5500

Reference Flat Tech Silence **ISIFIX® ISIWATT®** :

XP193FT2S R16CC1 (ou CC2) 3000/3500/4000/4500

XP218FT2S R16CC1 (ou CC2) 5000/5500



ZA de la Massane
11 Av. des Joncades Basses
13210 Saint Rémy de Provence - FRANCE
contact@avcomposites.com
www.avcomposites.com
Tel : +33 (0)4 32 61 92 95

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France relance - Entreprise lauréate 2021





1 Aluminum Alloy Facing
Inside Facing : Polyester Coating White Gloss 9010, Matte White 9010, Matte White 9016.
 Polyamide Coating Grainy White 9010 scratch resistant Novastripe®. Grey 7040 mat, Golden Oak.
Outside Facing : Polyester Coating White Gloss 9010, Matte White 9010, Matte White 9016., Roussillon, Grey 7040 mat, Golden Oak.
Flat Tech Silence Panel :
 Exterior acoustic device, composed of a non-woven fabric laminated to a PVC membrane White Ral 9016, Brown 8004, Grey 7040

2 Panel Core
Insulated Core :
 Extruded Polystyrene (33 kg/m3) No CFC w/ Aluminum Wire Channel
Thermal Coconductivity :
 $\lambda = 0.028 \text{ W/m.K} - \text{EN 12667} - 12939$

3 Bonding
STRUCTURAL Two-Components PU Adhesive

4 Longueurs & épaisseurs panneaux
 Flat Tech ISIWATT® 176, 188, 208 & 213
 3000 mm : X176FT2 R16CC1or2 thp. 176-116 mm
 3000 mm : XP188FT2R16CC1or2 th. 188-129 mm (c. ISIFIX®)
 3500 mm : X176FT2 R16CC1 or 2 th. 176-106 mm
 3500 mm : XP188FT2R16CC1or2 th. 188-119 mm (c. ISIFIX®)
 4000 mm : X176FT2 R16CC1 or 2 th. 176-96 mm
 4000 mm : XP188FT2R16CC1or2 th. 188-109 mm (c. ISIFIX®)
 4500 mm : X176FT2 R16CC1 or 2 th. 176-86 mm
 4500 mm : XP188FT2R16CC1or2 th. 188-109 mm (c. ISIFIX®)
 5000 mm : X208FT2 R16CC1 or 2 th. 208- 108 mm
 5000 mm : XP213FT2R16CC1or2 th. 213-114 mm (c. ISIFIX®)
 5500 mm : X208FT2 R16CC1 or 2 th. 208-98 mm
 5500 mm : XP213FT2R16CC1or2 th. 213-104 mm (c. ISIFIX®)

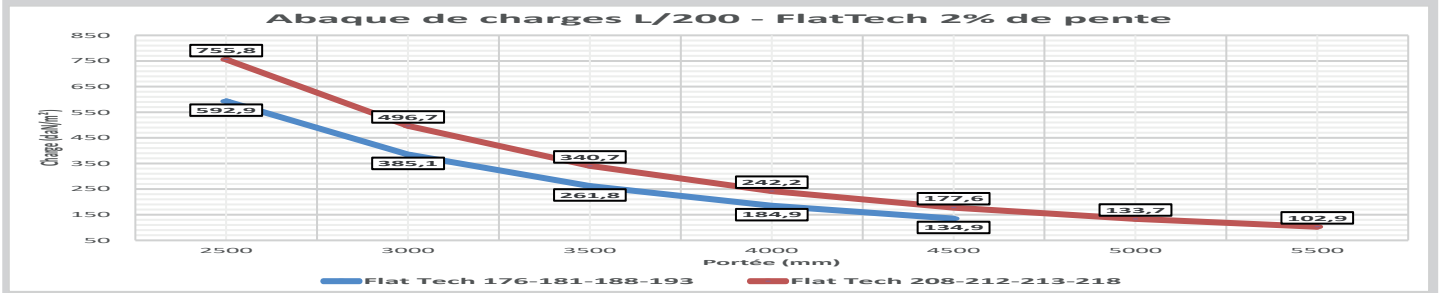
Flat Tech Silence ISIWATT® 181, 193, 212, 218
 3000 mm : X181FT2 SR16CC1or2 th. 181-121 mm
 3000 mm : XP193FT2SR16CC1or2 th.193-133 mm (c. ISIFIX®)
 3500 mm : X181FT2 SR16CC1 or 2 th. 181-111 mm
 3500 mm : XP193FT2SR16CC1or2 th.193-123 mm (c. ISIFIX®)
 4000 mm : X181FT2 SR16CC1 or 2 th. 181-101 mm
 4000 mm : XP193FT2SR16CC1or2 th.193-113 mm (c. ISIFIX®)
 4500 mm : X181FT2 SR16CC1 or 2 th. 181-91 mm
 4500 mm : XP193FT2SR16CC1or2 th.193-103 mm (c. ISIFIX®)
 5000 mm : X212FT2 SR16CC1 or 2 th. 212-112 mm
 5000 mm : XP218FT2SR16CC1or2 th.218-118 mm (c. ISIFIX®)
 5500 mm : X212FT2 SR16CC1 or 2 th. 212-102 mm
 5500 mm : XP218FT2SR16CC1or2 th.218-108 mm (c. ISIFIX®)

5 Panel Specs
Thermal Loss Coefficient U (ou K moyen)
 $W/K.m^2$: 0.19 (Flat Tech 176) / 0.19 (Flat Tech 181) / 0.18 (Flat Tech 188) / 0.17 (Flat Tech 193) / 0.17 (Flat Tech 208) / 0.17 (Flat Tech 212) / 0.17 (Flat Tech 213) / 0.16 (Flat Tech 218)
Thermal Resistance R (R moyen) $K.m^2/W$: 5.05 (Flat Tech 176) / 5.16 (Flat Tech 181) / 5.48 (Flat Tech 188) / 5.59 (Flat Tech 193) / 5.52 (Flat Tech 208) / 5.73 (Flat Tech 212) / 5.84 (Flat Tech 213) / 5.95 (Flat Tech 218)
Acoustic Gain
 X156FT2S R16 Vs X151FT2 R16 length 4500
 - 8 dB(A) Average Weighted Value

6 Dimensions - Width : 1195 mm
Average Weight kg/m^2 : 8.9 (Flat Tech 176) / 11.4 (Flat Tech 181) / 10.9 (Flat Tech 188) / 13.4 (Flat Tech 193) / 9.4 (Flat Tech 208) / 11.9 (Flat Tech 212) / 11.9 (Flat Tech 213) / 13.7 (Flat Tech 218)

7 Warranty Corporate Liability N° 2/700062
Fire Resistance Quality M1 PV N°EFR-19-001758A

8 Load Charts and Spans :
 5500 mm up to 900 m altitude and according to local wind and snow rules and regulations



Systems must only be installed using accessories from the AV Composites range. In the event of a dispute, warranties apply only if the instructions for use given in our technical data sheets, installation guides or Avis Technique are followed. The colorfastness of dark exterior coatings is not guaranteed over time. Advice and technical data refer to real information and practical experience. They are offered in good faith, but without guarantee, since conditions and methods of use are not under our control. We reserve the right to make modifications at any time, without notice.