PSA-AV



PRODUCT DESCRIPTION

- Winged aluminium profile for direct fixing on valley.

CHARACTERISTICS

- Profile for installation of solar panels on pitched roofs.
- Extruded profile in aluminium alloy 6005-T6.
- For outside use.
- Designed for coplanar installation systems.
- Assembly of interrupted profiles
- Direct fixing to the valley area between the ribs, on sheet metal roofs and sandwich panels.
- Side wings with six drilled holes for ease of fixing.
- Includes two EPDM adhesive strips below the side wings to facilitate positioning and ensure watertightness.
- Large 90mm base to ensure a secure fixing.
- 75mm profile height which exceeds the height of the ribs.
- General thickness – 1.8 mm.
- Central groove compatible with INDEXTRUT accessories.

ASSEMBLY APPLICATIONS/ACCESSORIES



KFRSC3050



PGSA26



TURXA208



6921I08070

These are used in **aluminium coplanar direct fixing systems in discontinuous profile format,** as structural elements for fixing and supporting solar panels.

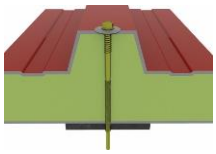
In order to attach solar panels to the profile, one of the following assembly accessories should be used:

1. The kit **KFRSC3050 "**quick pre-assembled clamp".

2. The set of references:
   - One **PGSA26** "aluminium gauge for solar frame".
   - One **TURXA208** "INDEXTRUT quick nut. Stainless steel A2.
   - One **6921I08070** "Screw DIN-6921 hexagonal flanged bolt with serrations. Stainless steel A2" size M8x70 all-thread bolt.

BASE MATERIAL/FIXING ACCESSORIES

BASE MATERIAL



Sandwich panel



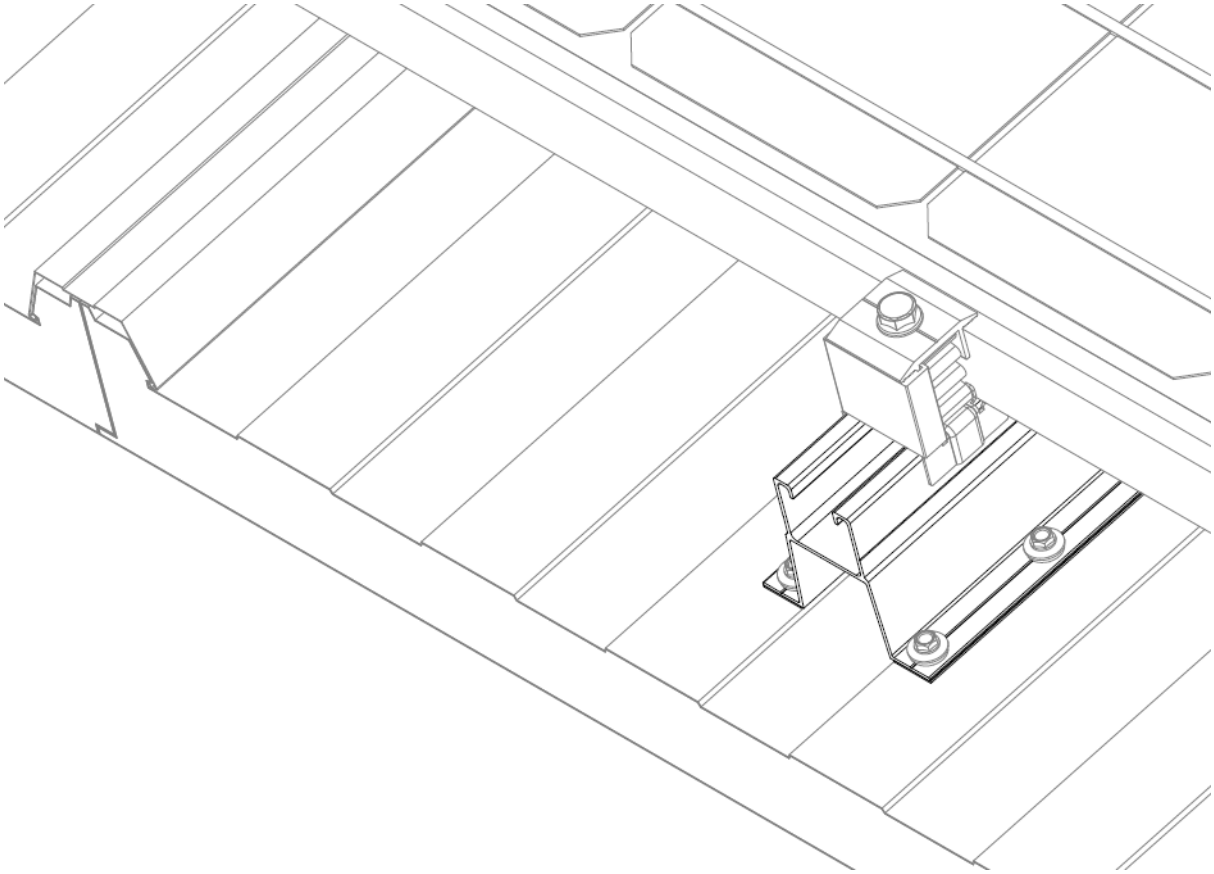
Metal sheet

FIXING ACCESSORIES



TAC-N/TAC-B
Atlantis/Bimetal thin sheet screw

APPLICATION EXAMPLES



Application example 1: Direct fixing by thin sheet screws to a 2-ribs sandwich panel with flashing.

1. RANGE

ITEM	CODE	PHOTO	DESCRIPTION	LENGTH	MATERIAL
1	**PSAAV0150**		Winged aluminium profile for direct fixing on valley.	150 mm	C3 Al 6005-T6 aluminium

2. INSTALLATION INFORMATION

2.1 PSA-AV

Winged aluminium profile for direct fixing on valley



Material

6005-T6 aluminium

Assembly accessories



KFRSC3050
Quick pre-assembled clamp



PGSA26
Simple clamp



TURXA208
INDEXTRUT quick nut

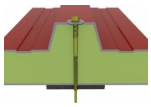


6921I08070
Screw DIN-6921. Stainless steel A2-70

Base materials



Metal sheet



Sandwich panel

Fixing accessories

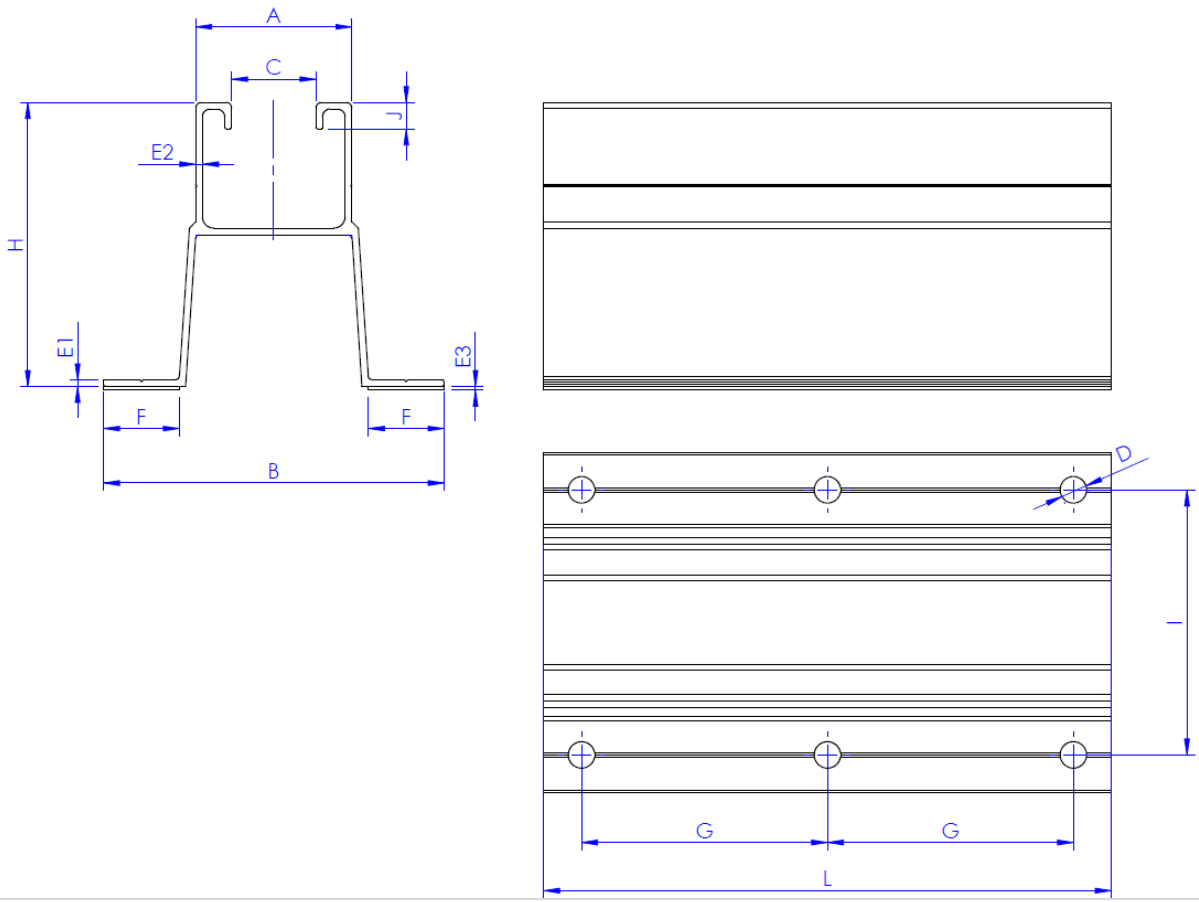


TAC-N/TAC-B
Atlantis/Bimetal thin sheet screw

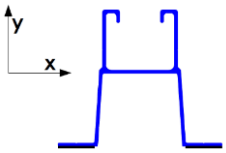
Measurement table

Code	A (mm)	B (mm)	C (mm)	D (mm)	E1 (mm)	E2 (mm)	E3 (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	L (mm)
PSAAV0150	41	90	22	7	1.8	1.8	1	20	65	75	70	7	150

Drawing



Mechanical properties of the material						
	Yield strength $F_{y\,0.2}$ (N/mm²)	Ultimate load F_u (N/mm²)	Elastic modulus E (N/mm²)	Transverse elastic modulus G (N/mm²)	Linear expansion coefficient α_L (µm/mK)	Specific weight ρ (kg/m³)
EN AW6005-T6 aluminium	225	270	69,500	26,200	23.3	2,710

Mechanical properties of the profile.						
	Area S (cm²)	Moment of inertia I_x (cm4)	Moment of inertia I_Y (cm4)	Section modulus W_X (cm³)	Section modulus W_Y (cm³)	Linear weight W (kg/m)
 PSA-AV	4.7	28.14	23.73	7.23	5.27	1.27