

SC-GPV

SYSTEM DESCRIPTION

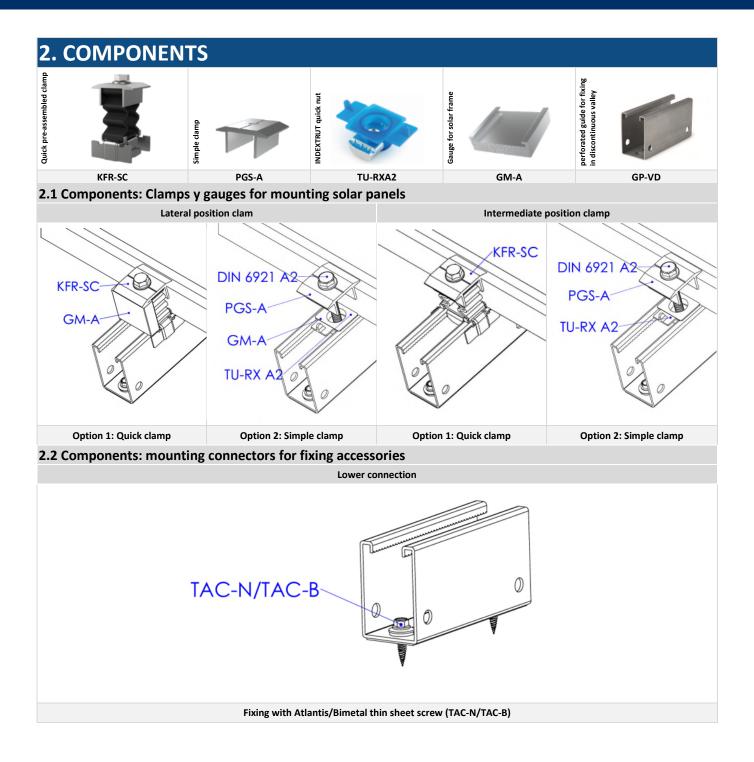
Coplanar mounting system with **GP-VD** "INDEXTRUT solar perforated guide for fixing in discontinuous valley", for the installation of solar panels.



1. CHARACTERISTICS					
Description:	Coplanar mounting system on Atlantis C4-M GP-VD steel guideway in discontinuous format with direct valley fixing.				
System inclination:	Coplanar mounting with parallel installation to the roof surface.				
System orientation:	Facing SOUTH, EAST OR WEST depending on the roof orientation.				
System materials:	Atlantis C4-M steel, stainless steel and EPDM.				
Warranty:	Until 10 years depending on environmental conditions (excluding environments exposed to hydroger sulphide). The warranty is only valid if the complete SC-GPV system is used.				
Compatible solar panels:					
Solar panels type:	Solar panels with frame height between 30mm and 40mm.				
Solar panels orientation:	Mounting orientation of landscape (horizontal) panels.				
Solar panel size	Adaptable to standard market sizes.				
Application area:					
Application area:	Sloping roofs.				
Roof slope:	Installation on pitched roofs, slope between 10° and 60°.				
Wind load:	Up to 240 km/h. The structure and fixing must be calculated according to local and roof conditions.				
Snow load:	Up to 2 kN/m². The structure and fixing must be calculated according to local and roof conditions.				

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ROOF SUB-ESTRUCTURE FIXING ACCESORIES METAL SHEET TAC-N / TAC-B Atlantis/Bimetal thin sheet screw SANDWICH PANEL ROOF SUB-ESTRUCTURE FIXING ACCESORIES AUENI Self-drilling screw Watertight trebol rivet

4. EXAMPLE OF APPLICATION



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5. INSTALLATION MANUAL

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Coplanar mounting system with GP-XS "INDEXTRUT solar perforated guide. Atlantis C4-M Steel. Discontinuos valley guide format"



Read these installation instructions before starting installation and familiarise yourself with the system components. Installation must only be carried out by qualified and experienced personnel.

Installation guidelines:

- Ensure that the roof construction is suitable for the introduction of forces at the fixing points and their subsequent transmission. The building must be able to safely receive the additional loads.
- A structural calculation must be carried out based on the local conditions at the installation site.
- The planning of the layout of the fixing points must be adapted to the requirements of the system and the roof.
- To compensate for thermal expansion, include a spacing every 12m when planning the PV system.
- The solar modules must be installed according to the manufacturer's instructions.
- Follow your local building regulations.
- Make sure to work in accordance with the health and safety regulations in force in your region, during installation and during roof work.
- Do not use the system or fixings as stairs.

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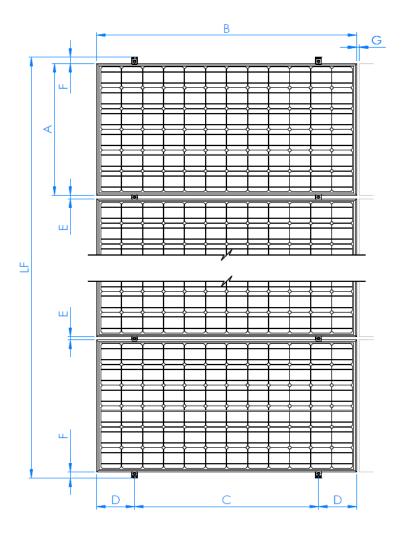


INSTALLATION PROCESS:

STEP 1.- Consult installation drawing

Consult the installation drawing on the roof, where the distribution of the modules is defined as well as the structures that support them and their fixing points.

A. Plan view of SC-GPV system with horizontal module orientation (landscape type)



С	D	E (mm)	F (mm)	G (mm)	LF		
0,7B ≤ C ≥0,5B	(B-C) /2	26	min 35	min 20	(n* B) + ((n-1) * E) + (2* F)		
C: consult the module manufacturer's recommendations.							
n: number of modules in the row.							

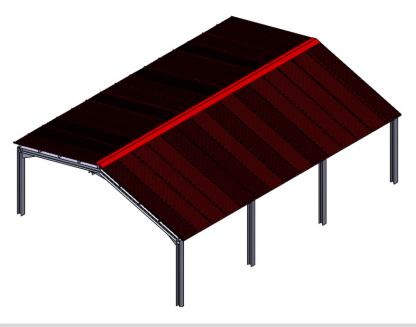
The type of fixing system and the location of its installation points shall be adapted to the needs of the supporting structures and at the same time to the needs of the roofs where they must be installed.

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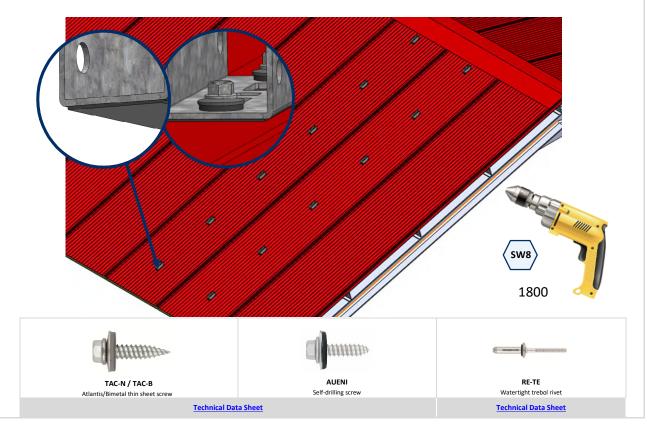
STEP 2.- Perform layout on the roof

Lay out on the roof the fixing points of each structure, checking the viability of the installation of each one depending on the chosen fixing system and the characteristics of the roof.



STEP 3.- Installation of the guides

Pre-install the GP-VD guides by sticking the base onto the butylene tape and fix them with the thin sheet screws. For the installation of the thin sheet screws use an electric screwdriver equipped with hexagon socket SW-8, an installation speed of 1800 rpm is recommended.

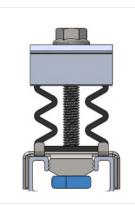


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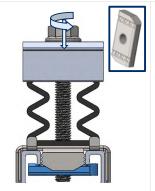


STEP 4.- Pre-installation of clamps on the guides

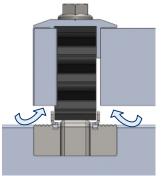
To mount the clamp on the guides, the following steps are necessary:



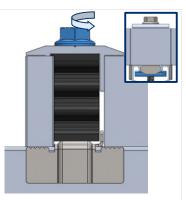
1. Place the clamp in the guide with the lower nut parallel to the guide.



2. To fix the clamp to the guide, the lower nut must be turned perpendicular to the guide by means of the screw, the screw head is pressed down and turned. The nut has a serrated rail to secure the fixing.



3. Insert the corresponding elements, two panels in the case of an intermediate clamp, or a panel and a gauge in the case of a lateral clamp.

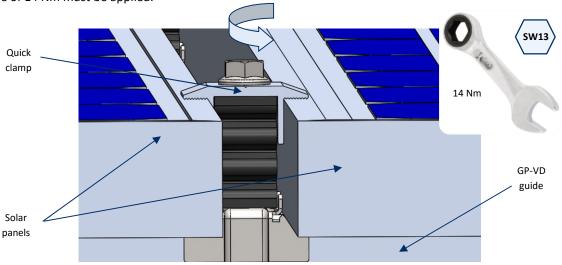


4. To fix the inserted elements it is necessary to turn the screw until they meet the guide. Check that the lower nut remains perpendicular to the guide.

Type of clamp depending on its position:

A. Intermediate clamp

The intermediate clamp is used when passing from one module to another within the same row, fixing both panels to the structure. This assembly is carried out by means of the screw included in the clamp. A tightening torque of 14 Nm must be applied.



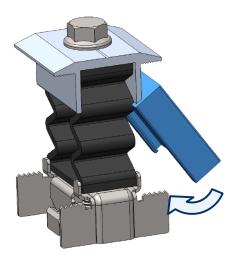
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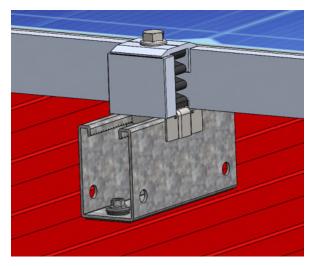
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B. Lateral clamp

• Prepare 4 KFRSC3050 quick fixing clamps to be mounted at the ends of each row of panels. Each of these clamps is fitted with a GM-A gauge, mounted as shown in the figure:





The chosen gauge size must be equal to the frame height of the solar panels to be installed.

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