

TRP-XS



PRODUCT DESCRIPTION

- Pre-assembled and adjustable triangle INDEXTRUT. Steel with Atlantis C4-M coating

CHARACTERISTICS

- Inclined structure for installation of roof-mounted solar panels.
- Pre-assembled product.
- Includes two **GP-XS** "INDEXTRUT solar perforated guides" of two different lengths in **Atlantis® C4-M**-coated steel.
- Includes three **NUGX4115** "Articulated joint INDEXTRUT" units in **Atlantis® C4-M**-coated steel with A2-70 stainless steel bolts.
- Includes two **D603I08016** bolt units and two **D6923IM08** nut units in A2-70 stainless steel.
- For outside use.
- Designed for **triangular steel assembly systems** with **GP-XS** format continuous guides.
- Adjustable inclination during assembly between 25° and 35°.
- Optimum strength with an inclination of 25°.
- Option of vertically mounting solar panels to a height of up to two metres
- Grooves with internal tothing to facilitate pre-assembly and the adjustment of the elements to be attached.
- Standard INDEXTRUT 41 x 41 x 1.5 guide rail measurements.
- Central groove compatible with INDEXTRUT accessories.
- Option for triangles in sizes manufactured to order on request.

ASSEMBLY APPLICATIONS/ACCESSORIES



GP-XS



6921I08020



TURXA208

These are used in **triangular steel installation systems** as an inclined structural element onto which continuous **GP-XS** guides can be mounted. Solar panels are attached to and supported by these guides.

In order to mount **GP-XS** guides on the triangles, the following are used to assist assembly at each junction:

- One **TURXA208** "INDEXTRUT quick nut".
- One A2-70 stainless steel **6921I08020** DIN-6921 M8x20 all-thread bolt.

If bracing is required between triangles, **GP-XS** guide rails should be used to connect adjoining triangles. The guide that acts as a brace is attached to the lower rails of the adjoining triangles, using the same assembly accessories as before at each junction.

FIXING SYSTEM/ASSEMBLY ACCESSORIES

Mounting of guide structures/Application example 1

FIXING SYSTEM



GP-XS

INDETRUT solar perforated guide

ACCESSORIES



TURXA208

INDETRUT quick nut



6921I08020

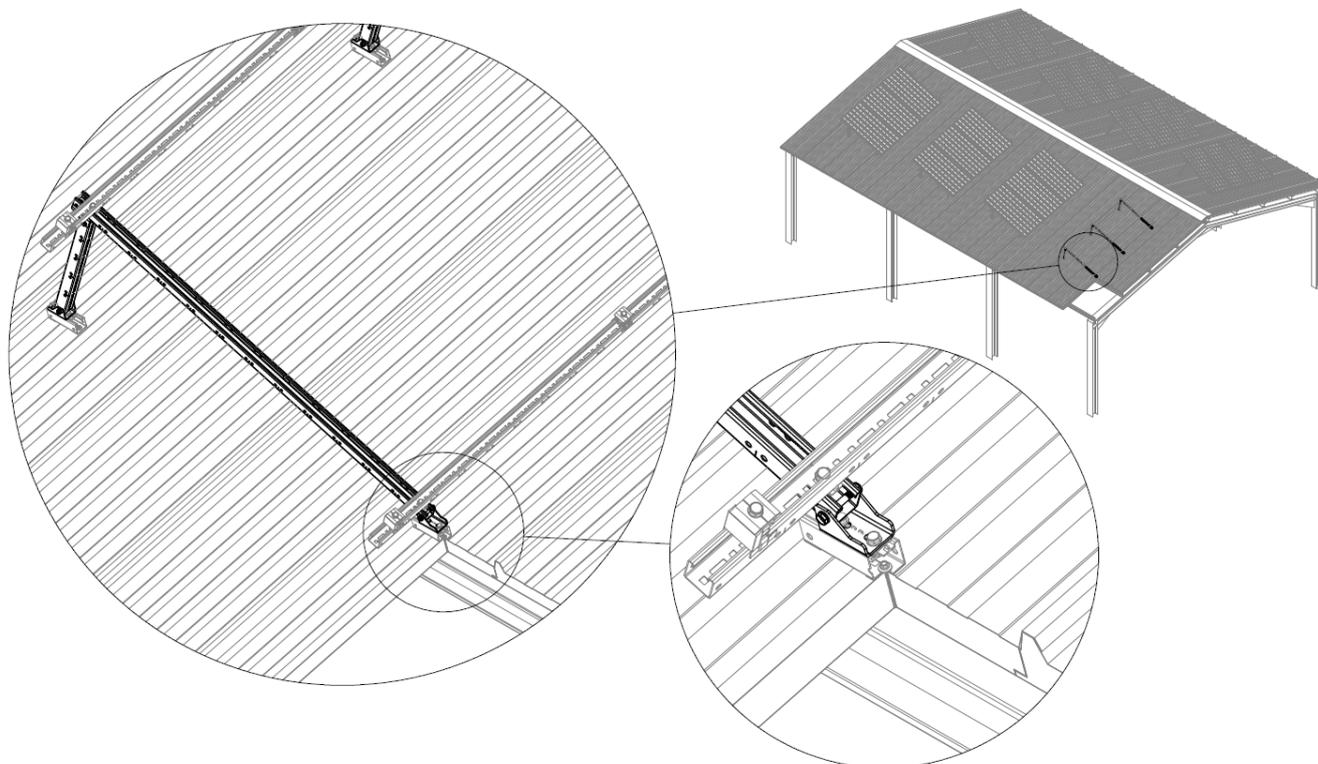
A2 stainless steel DIN-6921 bolt

BASE MATERIAL/FIXING

See technical data sheets:

- Triangular installation system with INDETRUT perforated solar guide (ST-GPX).

APPLICATION EXAMPLES



Application example 1: Mounting on discontinued guide with metal belt fixing.

1. RANGE

ITEM	CODE	PHOTO	DESCRIPTION	ANGLE	LENGTH	MATERIAL	FINISH
1	TRPXS412515		Pre-assembled and adjustable triangle INDETRUT. Steel with Atlantis C4-M coating	25°	1500 mm	 Steel A2-70	 Atlantis C4-M

2. INSTALLATION INFORMATION

2.1 TRP-XS

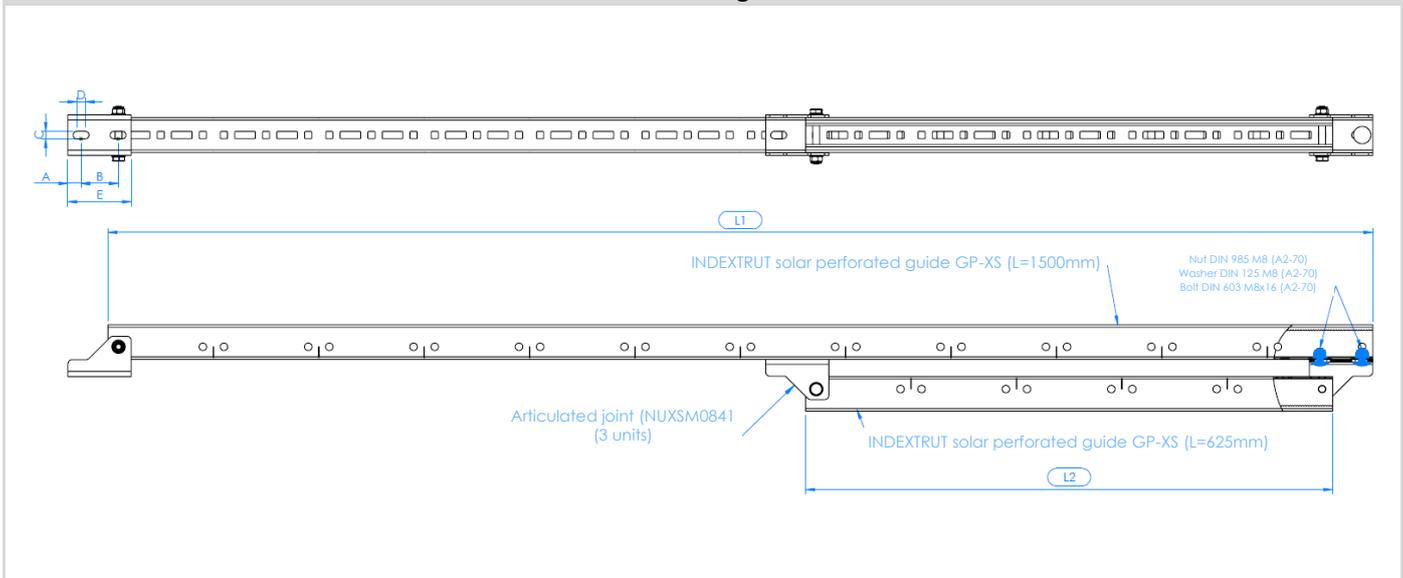
Pre-assembled and adjustable triangle INDEXTRUT.
Steel with Atlantis C4-M coating.

	Material Finish Steel	Compatible GP-XS INDEXTRUT perforated solar guide	Assembly accessories TURXA208 INDEXTRUT quick nut		 6921108070 A2-70 DIN-6921 stainless steel bolt
	 Atlantis C4-M				
	Fixing systems GP-XS INDEXTRUT perforated solar guide			Assembly accessories 6921108020 A2-70 DIN-6921 stainless steel bolt	
				 TURXA208 INDEXTRUT quick nut	
BASE MATERIAL/FIXING See technical data sheet: <ul style="list-style-type: none"> ST-GPX: Triangular installation system with perforated steel channel Atlantis C4-M INDEXTRUT solar GP-XS. 					

Measurement table 1

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	L1 (mm)	L2 (mm)
TRPXS412515	15.5	44	9	10	75	1500	625

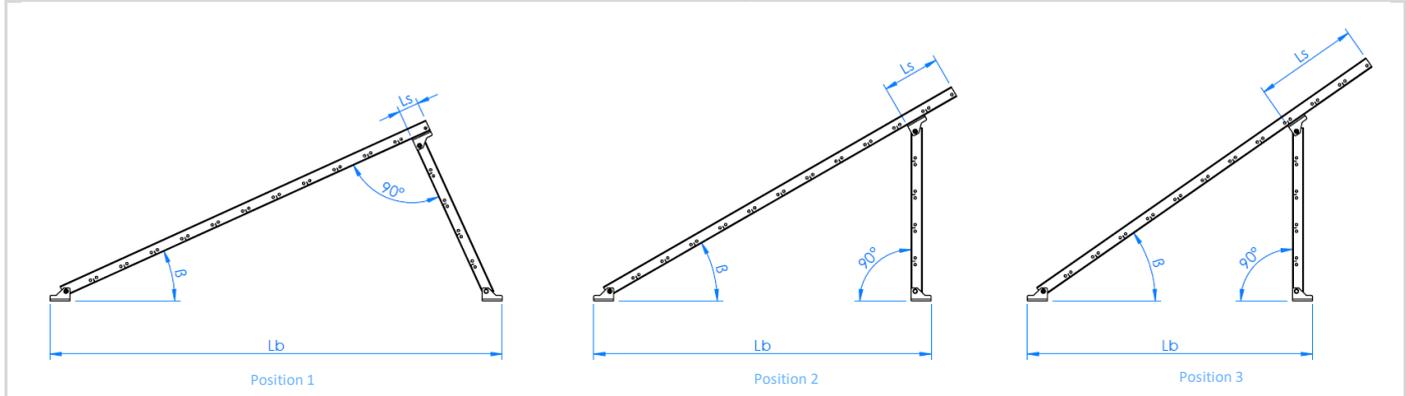
Drawing



Measurement table 2

Code	Position 1			Position 2			Position 3		
	β (°)	Ls (mm)	Lb (mm)	β (°)	Ls (mm)	Lb (mm)	β (°)	Ls (mm)	Lb (mm)
TRPXS412515	25	75	1689	30	215	1260	35	384	1065

Drawing



Mechanical properties of the material

	Yield strength $F_{y0.2}$ (N/mm ²)	Ultimate load F_u (N/mm ²)	Elastic modulus E (N/mm ²)	Transverse elastic modulus G (N/mm ²)	Linear expansion coefficient α ($\mu\text{m}/\text{C}^\circ$)	Specific weight ρ (kg/m ³)
Steel	235	300	210,000	81,000	12	7,850
A2-70 stainless steel	450	700	210,000	81,000	17.3	7,850

Mechanical properties of the guide.

	Area S (cm ²)	Moment of inertia I_x (cm ⁴)	Moment of inertia I_y (cm ⁴)	Section modulus W_x (cm ³)	Section modulus W_y (cm ³)	Linear weight W (kg/m)
 GP-XS	2.13	4.98	6.13	2.18	2.99	1.67