

TPA-P



PRODUCT DESCRIPTION

- Strut profile for pre-assembled aluminium triangle.

CHARACTERISTICS

- L-shaped profile used to brace inclined triangular aluminium structures to which solar panels are attached in order to strengthen them from lateral forces.
- Standardised product in EN AW 6063-T6 extruded aluminium.
- For outside use.
- For **assembled triangular aluminium mounting systems**.
- Available in anodized.

APPLICATIONS/MOUNTING ACCESSORIES



TPA-R



TPA-A



TPA-C



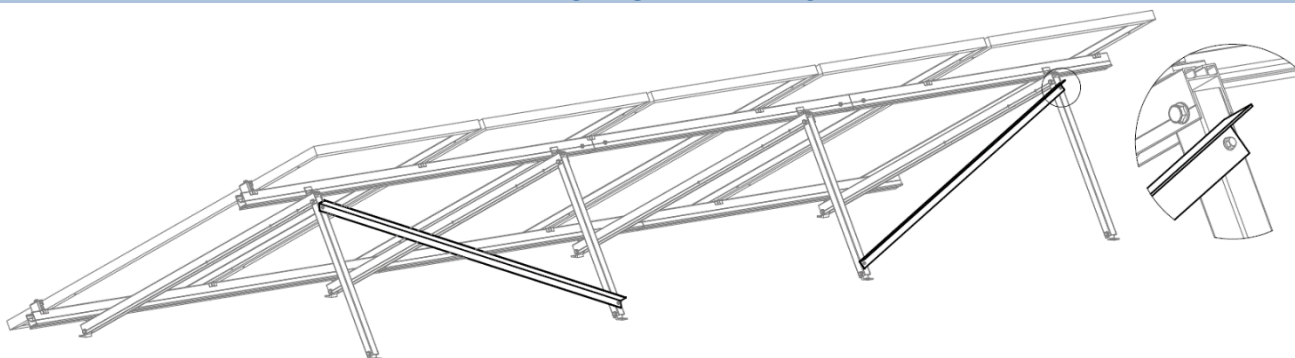
ABEI5519

To brace **assembled triangular aluminium mounting systems (TPA-P / TPA-A / TPA-C)**, and strengthen them from lateral forces.

Assembly uses two triangles connected by a diagonally-mounted **TPA-P** strut profile.

Strut profiles are diagonally attached to profile bars of the two corresponding **TPA-R** triangles using **ABEI5519** stainless steel A2-70 “DIN-7504-K self-drilling screws”.

APPLICATION EXAMPLES



Application example 1: Bracing of TPA-R triangles

1. RANGE

ITEM	CODE	PHOTO	DESCRIPTION	WIDTH	LENGTH	MATERIAL	FINISH
1	TPAP352000		Strut profile for pre-assembled aluminium triangle	35 mm	2000 mm	 AW 6063-T6	 Natural anodized 15 microns (AA15)

2. INSTALLATION INFORMATION

2.1 TPA-P

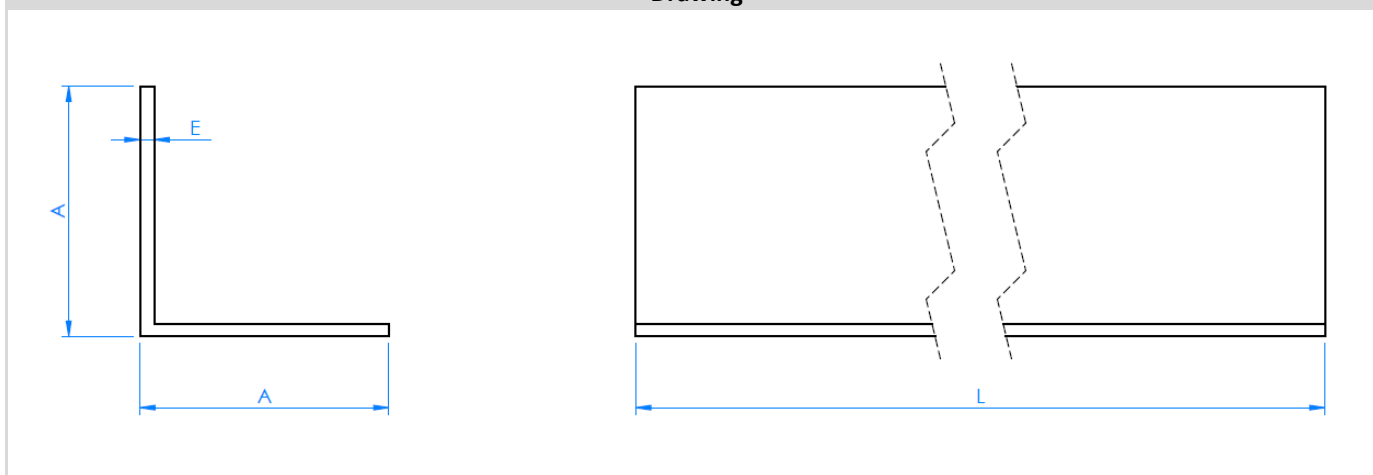
Strut profile for pre-assembled aluminium triangle

	Material	Finish	Compatible			Assembly accessories
	Al 6063-T6 aluminium	Anodized Natural anodized 15 microns (AA15)				 ABE15519 A2 DIN-7504-K bolt

Measurement table

Code	A (mm)	E (mm)	L (mm)
TPAP352000	35	2	2000

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)
EN AW6063-T6 aluminium	225	270	69,500	26,200	23.3	2,710

Mechanical properties of the profile.

	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)
 TPA-P	1.27	1.64	1.64	0.64	0.64	0.35