

## The universal aluminium profile for photovoltaic installations on both pitched roofs and flat surfaces



Pitched roof



Flat surface

### VERSIONS

- aluminium alloy AW 6063 T6 according to EN 755-2:2013

### APPROVALS



### ADVANTAGES

- Universal: the aluminium profile Solar-fish is suitable for both pitched roof and flat surface PV installations.
- Easy and fast: quick installation in the lower and lateral channel through screw SKS M 8 or T-head screw RHS 8 x 20 and in the upper channel through channel nut FCN AL and joint bracket MW (for cross joint).
- No scrap: the optimized length reduces waste and facilitates handling on site.
- Maximum allowable spacing 1800 mm, depending on snow and wind loads calculated according current National Regulations.

### APPLICATIONS

#### Suitable for:

##### Pitched roof System with:

- Hook GT U
- Hook GT UB
- Hook GT L
- Hook GT LB
- Hook GT 130 and GT 150 (5 and 8 mm), TÜV and MCS certified
- Hook GC, TÜV and MCS certified
- Hook GTR, TÜV and MCS certified
- Hook GTT, TÜV and MCS certified
- Hook GTP, TÜV and MCS certified
- Hook GTPR

##### Flat surface System with:

- Triangular frame STFS 10° - 13°
- Triangular frame STFN 10° - 15°
- Triangular frame STFN 25° - 30° - 35°
- Triangular frame STFN 2000 35° - 40° - 45°
- Trapezoidal frame STFE 25°

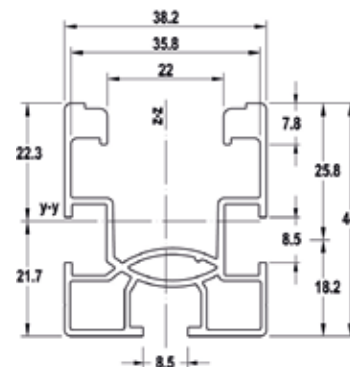
##### Corrugated roof System with:

- Stud screw STSR
- Stud screw STSI

### FUNCTIONING

- Select the profile length and/or combination which fit better the PV array.
- Hooks/triangular frames/stud screws spacing has to be evaluated depending on snow and wind loads for installation area, according National Regulations.
- Fasten the profile on the hooks/triangular frames using lower channel (with screw SKS M 8 or T-head screw RHS) or lateral channels (with joint bracket MW and screw SKS M 8 or T-head screw RHS); on stud screws through joint plate SSP and screw SKS M 8.
- Use a couple of joints CPN AL on the lateral channels to link profiles Solar-light. The connection is completely closed when the joints central emboss is in contact with the profiles.
- ⚠ The maximum recommended length of a PV panels row is 15 m to prevent too large thermal expansion.
- ⚠ If the connection is on the side spans, the joints CPN AL have to be fixed with self drilling screws.

## TECHNICAL DATA



Profile **Solar-fish**

Profile **Solar-fish BL**

Item	Art.-No.	Weight	Profile length	Profile cross section	Moment of inertia y-axis	Moment of inertia z-axis	Section modulus y-axis	Section modulus z-axis	Sales unit	GTIN (EAN code)
		W [kg/m]	l [mm]	S [mm <sup>2</sup> ]	I <sub>y</sub> [cm <sup>4</sup> ]	I <sub>z</sub> [cm <sup>4</sup> ]	W <sub>y</sub> [cm <sup>3</sup> ]	W <sub>z</sub> [cm <sup>3</sup> ]	[pcs]	
Solar-fish 3,15 mt	514850	0,922	3150	342	7,27	6,45	3,26	3,37	1	8001132024218
Solar-fish 3,35 mt	518645	0,922	3350	342	7,27	6,45	3,26	3,37	1	8001132027417
Solar-fish 4,20 mt	514851	0,922	4200	342	7,27	6,45	3,26	3,37	1	8001132024225
Solar-fish 3,15 mt BL	534424	0,922	3150	342	7,27	6,45	3,26	3,37	1	8001132050569

## ACCESSORIES



Joint **CPN AL**

Self drilling screw **3,5 x 9,5 mm A2**

Self drilling screw **4,8 x 32 mm A2 HEX head**

Item	Art.-No.	Weight	Length	Sales unit	GTIN (EAN code)
		W [g]	l [mm]	[pcs]	
CPN AL	514890	80	183	12	8001132024362
Self-drilling screw 3,5x9,5 mm A2	571209	-	9,5	100	8001132712092
Self-drilling screw 4,8x32 mm A2 HEX head	071285	-	32	100	8001132712856

## ACCESSORIES



Cover cap for Solar-fish profile **AK SP**

Black Cover cap for Solar-fish profile **AK SP BL**

Item	Art.-No.	Weight	Sales unit	GTIN (EAN code)
		W [g]	[pcs]	
AK SP	071183	7	50	8001132711835
AK SP BL	520909	7	50	8001132030226

## ACCESSORIES



Adjustable support bracket **FV PS**

Item	Art.-No.	Weight	Sales unit	GTIN (EAN code)
		W [g]	[pcs]	
FV PS	071877	100	4	8001132718773