



05

Welded structure

FR-W-US-EW/H/LAZ/MAX-LONG2100  
 FR-W-US-EW/H/LAZ/MAX-LONG2300  
 FR-W-US-EW/H/LAZ/MAX-LONG2500

TYPE

Universal (US)

MODULE DIRECTION

East-west (EW)

MODULE LAYOUT

Horizontal (H)

INSTALLATION

Long side (LAZ)

MAX PV MODULE LENGTH

2100 / 2300 / 2500



SEE ONLINE →



DESCRIPTION

- Multi-part structure, made of Magnelis™ sheet metal, intended for flat roofs, without the need additional ballast.
- Created with the participation of a specialist in the installation of membrane coverings.
- Its unique shape has been designed to significantly reduce assembly time and maximize the force necessary to remove the base.
- Non-invasive assembly with welding technology using the, so called, leister (in the case of PVC) or a gas burner (in the case of bitumen felt),
- High durability of the welded system is confirmed by specialized laboratory tests.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- Only one welded base per support is required for proper installation,
- Optionally - a hybrid system that allows the base to be welded and at the same time to load the wind deflector with ballast (in roof areas particularly exposed to wind suction).
- In the case of mounting PV modules in a horizontal arrangement, an additional element are ZET profiles with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

© At the customer's request, each installation using a structure is calculated by our Technical Department in terms of its load for a given roof, the method of installation and the number of bases that must be welded to the membrane.

Flat roof structures (FR)



- 1. Lower telescope - long side  
RBTSOLAR-KDR\_2\_825

---

- 2. Upper telescope - long side  
RBTSOLAR-KDT\_3\_825

---

- 3. Upper telescope - long side  
RBTSOLAR-KDT\_3\_825

---

- 4. Purlin for support L=2175/2380/2728  
RBTSOLAR-KD-PL-2175/2380/2728

---

- 5. Lower telescope - long side  
RBTSOLAR-KDR\_2\_825

---

- 6. End telescope - base  
RBTSOLAR-KDWZP\_6\_880

---

- 7. Middle telescope - base  
RBTSOLAR-KDWZL\_7\_1544

---

- 8. Welded base for support  
RBTSOLAR-KD-PZ

---

- 9. End telescope - base  
RBTSOLAR-KDWZP\_6\_880

CHARACTERISTICS

FR-W-US-EW/H/LAZ

Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Universal (US)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module	Long side (LAZ)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane
Method of assembly	The base of the structure is welded to the roof surface
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	No
How to install the clamps	Clamps mounted to purlins - bean system
Method of distribution	Available in stock


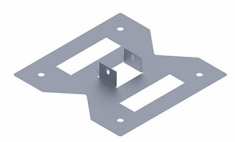

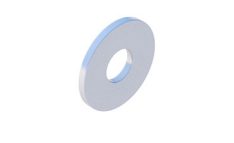


	MAX-LONG2100	MAX-LONG2300	MAX-LONG2500
Approximate weight of the structure per 1m2 of installation without additional ballast (kg/m2) <sup>2</sup>	16,80	15,05	12,89
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	Without wind guard	Without wind guard	Without wind guard
Maximum PV module length (mm) <sup>3</sup>	2100	2300	2500

<sup>1</sup> the proposed installation method for a given type of module may differ from the installation method provided by the PV module manufacturer, whose recommendations and recommendations determine the proper installation.  
<sup>2</sup> weight calculated for a system of three modules in one row with the maximum dimensions for a given type of structure  
<sup>3</sup> the given maximum size of the module and the proposed method of its installation may differ from the installation method provided by the PV module manufacturer, whose recommendations and recommendations determine the proper installation

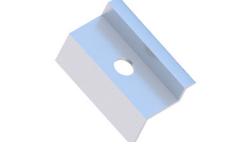
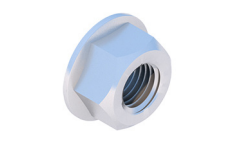

Flat roof structures (FR)



LIST OF PARTS - BASE OF CONSTRUCTION

				
<p>Universal triangle East-west</p> <p><b>RBTSOLAR-FR-US-EW</b></p>	<p>Welded base for support</p> <p><b>RBTSOLAR-KD-PZ</b></p>	<p>Self-locking nut M8 DIN985 A2</p> <p><b>NSHM8A2</b></p>	<p>Hexagonal nut M10 IE</p> <p><b>NM10Z</b></p>	<p>Washer M10 300HV ISO7093-1 IE</p> <p><b>PSZM10Z</b></p>
				
<p>Round washer A2 8.4 DIN125A</p> <p><b>PPM8A2</b></p>	<p>Allen screw M8X100 DIN912 A2</p> <p><b>SIM8X100A2</b></p>	<p>Hexagonal screw M10X20 IE</p> <p><b>SM10X20Z</b></p>	<p>Hexagonal screw M8X20 DIN933 A2</p> <p><b>SM8X20A2</b></p>	<p>Purlin for support L=2175/2380/2728</p> <p><b>RBTSOLAR-KD-PL-2175/2380/2728</b></p>

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

		
<p>End clamp 30/32/35/40 Nature/Black</p> <p><b>KLK50/30(32/35/40)ALN</b> <b>KLK50/30(32/35/40)ALCZ</b></p>	<p>Flange nut serrated M8 DIN6923 A2</p> <p><b>NKM8A2</b></p>	<p>Allen screw M8X35 DIN912 A2</p> <p><b>SIM8X35A2</b></p>