25 Screw-on structure

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

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100 / 2300 / 2500

SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis sheet, intended for flat or sloping roofs, without the need for additional ballasting and without the possibility of using a welded structure.
- Invasive installation system, by attaching to the roof substructure using the appropriate number of screws.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- In case of mounting PV modules in a vertical arrangement and with a side length exceeding 2100 mm in a horizontal arrangement, ZET profiles are an additional element 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 mounted.

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. End telescope - base
   RBTSOLAR-KDWZP_6_880

CHARACTERISTICS	FR-S-US-EW/H/LAZ
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
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/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
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

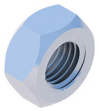
	MAX-LONG2100	MAX-LONG2300	MAX-LONG2500
Approximate weight of the structure per 1m2 of installation without additional ballast (kg/m2)2	13,61	14,38	12,35
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	Without wind guard	Without wind guard	Without wind guard
Maximum PV module length (mm)3	2100	2300	2500

[1] 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.
[2] weight calculated for a system of three modules in one row with the maximum dimensions for a given type of structure
[3] 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

LIST OF PARTS - BASE OF CONSTRUCTION

Universal triangle
East-west

RBTSOLAR-FR-US-EW



Self-locking nut
M8 DIN985 A2

NSHM8A2

Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

SIM8X100A2

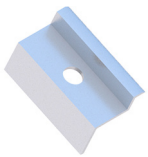
Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

Purlin for support
L=2175/2380/2728

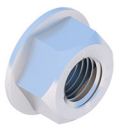
RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



End clamp
30/32/35/40
Nature/Black

KLK50/30(32/35/40)ALN
KLK50/30(32/35/40)ALCZ



Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Allen screw
M8X35 DIN912 A2

SIM8X35A2

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300