



22

Screw-on structure

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

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100 / 2300 / 2500



SEE ONLINE →

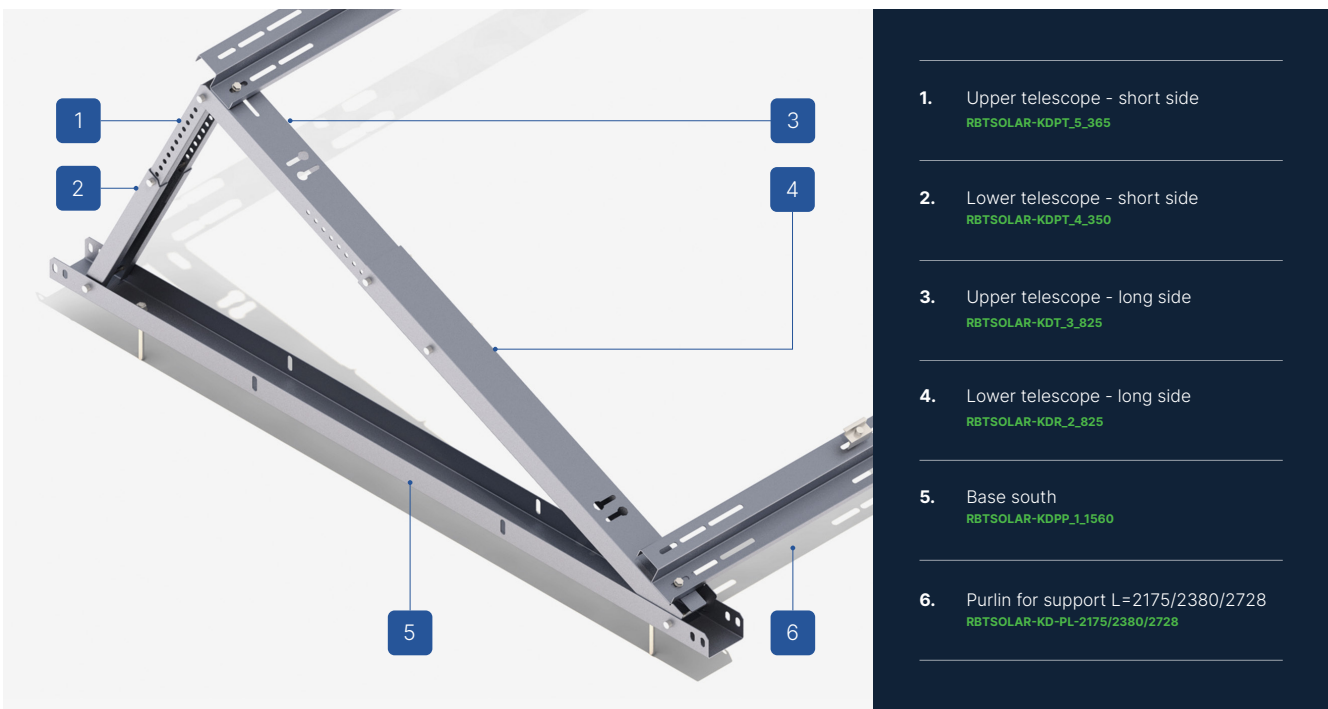
DESCRIPTION

- 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.

© Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)



- 1. Upper telescope - short side
[RBTSOLAR-KDPT_5_365](#)

- 2. Lower telescope - short side
[RBTSOLAR-KDPT_4_350](#)

- 3. Upper telescope - long side
[RBTSOLAR-KDT_3_825](#)

- 4. Lower telescope - long side
[RBTSOLAR-KDR_2_825](#)

- 5. Base south
[RBTSOLAR-KDPP_1_1560](#)

- 6. Purlin for support L=2175/2380/2728
[RBTSOLAR-KD-PL-2175/2380/2728](#)

CHARACTERISTICS

FR-S-US-S/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	South (S)
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)?	Yes - possibility of additional ballasting of the wind tower
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	8,96	9,35	6,72
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	2175	2355	2703
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

Flat roof structures (FR)

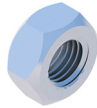


LIST OF PARTS - BASE OF CONSTRUCTION

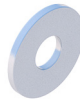


Universal triangle
South

RBTSOLAR-FR-US-S



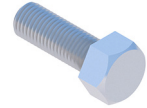
Self-locking nut
M8 DIN985 A2



Round washer
A2 8.4 DIN125A



Allen screw
M8X100 DIN912 A2



Hexagonal screw
M8X20 DIN933 A2

SM8X20A2



Purlin for support
L=2175/2380/2728

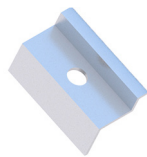
RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



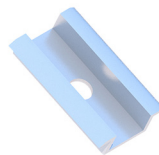
Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ



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

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



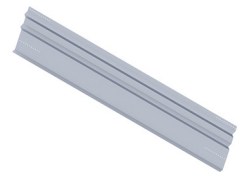
Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ



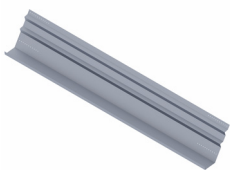
Allen screw
M8X35 DIN912 A2

SIM8X35A2



Windchest
South support
L=2175/2355/2703mm

RBTSOLAR-KD-W-2175/2355/2703



Ballast wind shelter
South support
L=2175/2355/2703mm

RBTSOLAR-KD-WB-2175/2355/2703



M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300