



23

Screw-on structure

FR-S-US-S/V/LAZ/MAX-LONG1950

TYPE

Universal (US)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

INSTALLATION

Long side (LAZ)

MAX PV MODULE LENGTH

1950



SEE ONLINE →



DESCRIPTION

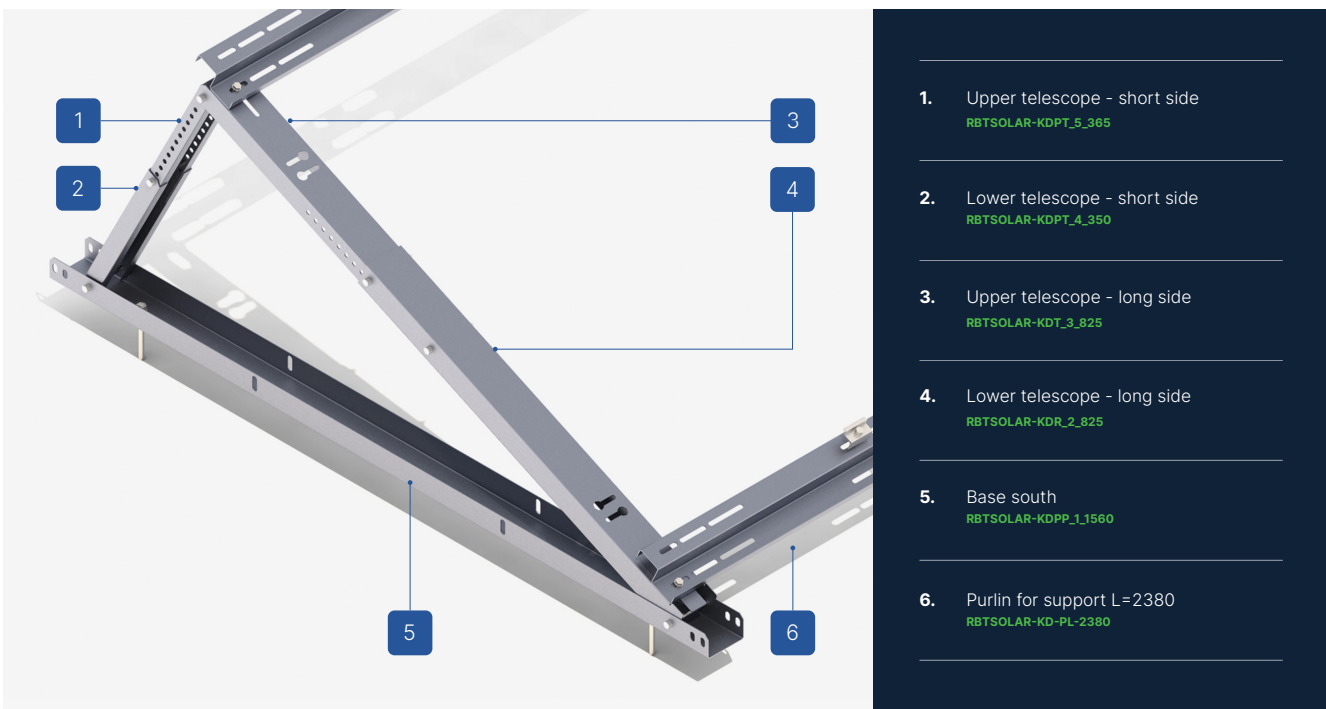
- Multi-part structure, made of Magnelis sheet, intended for flat or sloping roofs, without the need for additional ballasting and without the possibility of using a welded structure.
- Invasive installation system, by attaching to the roof substructure using the appropriate number of screws.

- 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](#)

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- 2. Lower telescope - short side  
[RBTSOLAR-KDPT\\_4\\_350](#)

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- 3. Upper telescope - long side  
[RBTSOLAR-KDPT\\_3\\_825](#)

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- 4. Lower telescope - long side  
[RBTSOLAR-KDPT\\_2\\_825](#)

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- 5. Base south  
[RBTSOLAR-KDPP\\_1\\_1560](#)

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

CHARACTERISTICS

FR-S-US-S/V/LAZ/MAX-LONG1950

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	Vertical (V)
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
Approximate weight of the structure per 1m <sup>2</sup> of installation without additional ballast (kg/m <sup>2</sup> ) <sup>2</sup>	5,1
Purlin length (mm)	2380
Wind brace length (mm)	2355
Maximum PV module length (mm) <sup>3</sup>	1950
How to install the clamps	Clamps mounted to purlins - bean system
Method of distribution	Available in stock

<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)

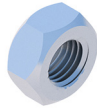


LIST OF PARTS - BASE OF CONSTRUCTION

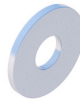


Universal triangle  
South

RBTSOLAR-FR-US-S



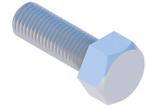
Self-locking nut  
M8 DIN985 A2



Round washer  
A2 8.4 DIN125A



Allen screw  
M8X100 DIN912 A2



Hexagonal screw  
M8X20 DIN933 A2

SM8X20A2



Purlin for support  
L=2175/2380/2728

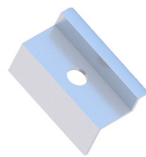
RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



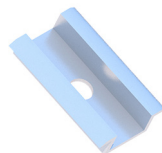
Sheet metal screw  
OC 5.5X25 EPDM

BLW55X25EPDMZ



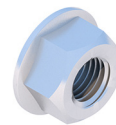
End clamp  
30/32/35/40  
Nature/Black

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



Middle clamp  
50 universal  
Nature/Black

KLSR50ALN  
KLSR50ALCZ



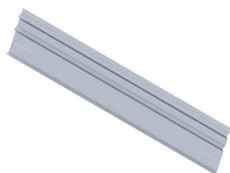
Flange nut  
serrated  
M8 DIN6923 A2

NKM8A2



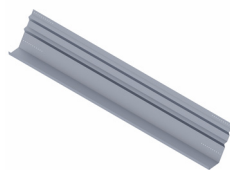
Allen screw  
M8X35 DIN912 A2

SIM8X35A2



Windchest  
South support  
L=2355

RBTSOLAR-KD-W-2355



Ballast wind shelter  
South support  
L=2355

RBTSOLAR-KD-WB-2355



M10 double thread screw  
200/250/300

RBTSOLAR-KD-DWUG200/250/300