



03

Welded structure

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

TYPE

Universal (US)

MODULE DIRECTION

South (S)

MODULE LAYOUT

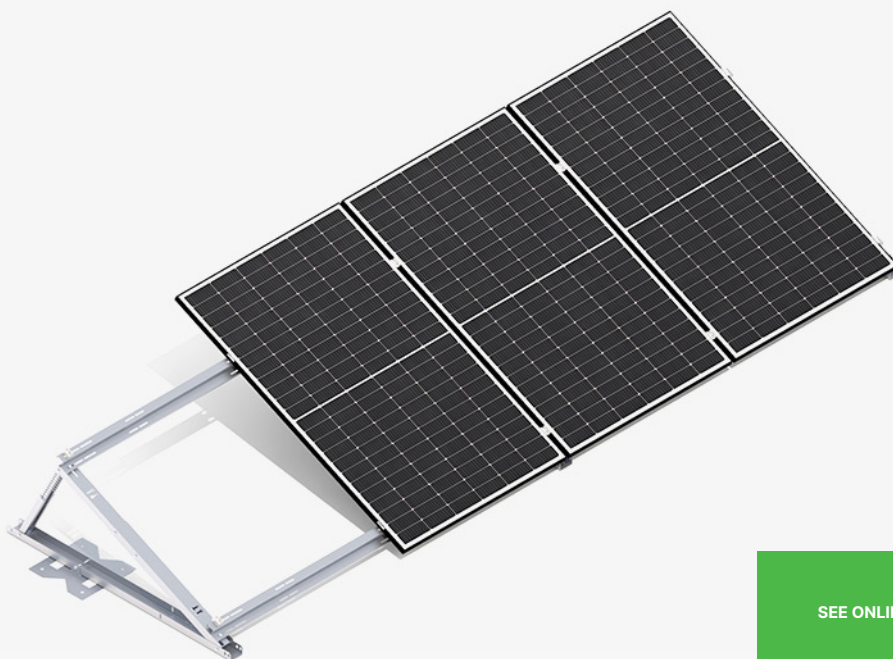
Vertical (V)

INSTALLATION

Long side (LAZ)

MAX PV MODULE LENGTH

1950



SEE ONLINE →



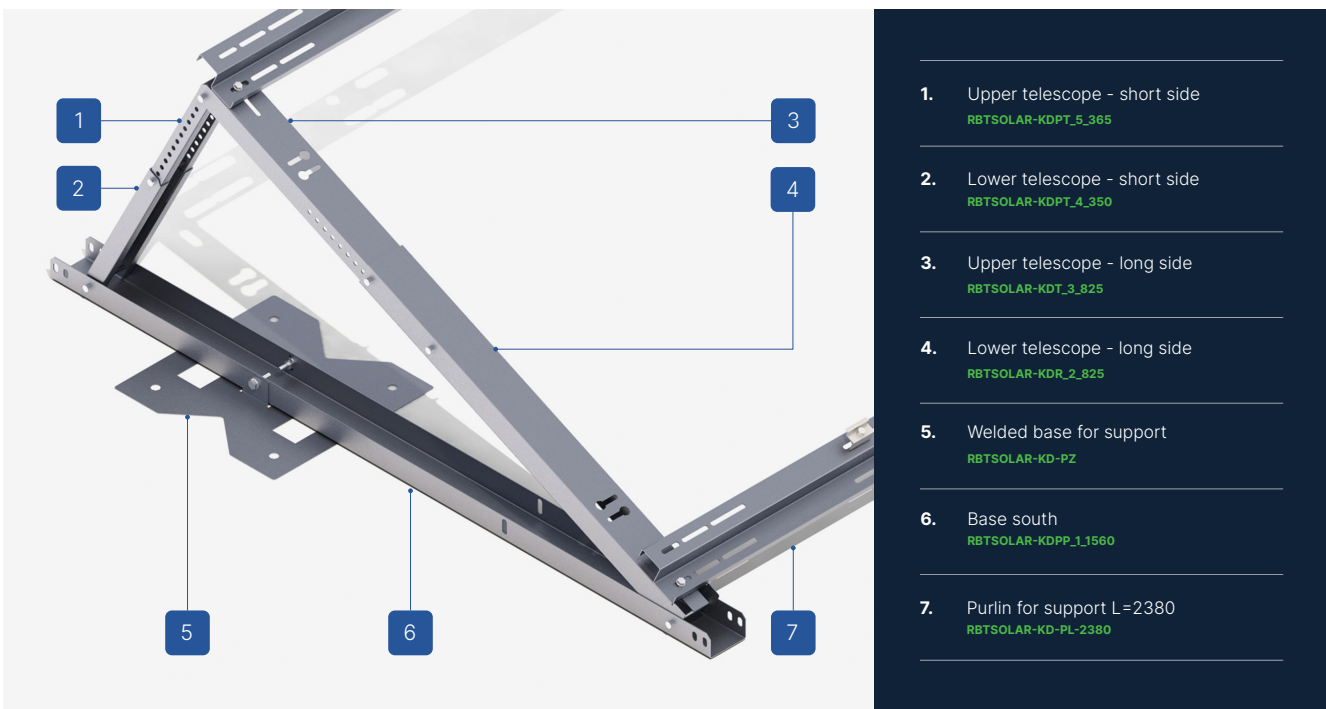
DESCRIPTION

- Multi-part structure, made of Magnelis™ sheet 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).

© 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.

© 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. Welded base for support  
RBTSOLAR-KD-PZ
6. Base south  
RBTSOLAR-KDPP\_1\_1560
7. Purlin for support L=2380  
RBTSOLAR-KD-PL-2380

CHARACTERISTICS

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

Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
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
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)?	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>	5,54
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)

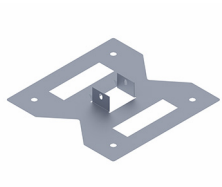


LIST OF PARTS - BASE OF CONSTRUCTION



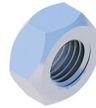
Universal triangle  
South

RBTSOLAR-FR-US-S



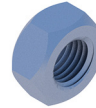
Welded base  
for support

RBTSOLAR-KD-PZ



Self-locking nut  
M8 DIN985 A2

NSHM8A2



Hexagonal nut  
M10 IE

NM10Z



Washer M10 300HV  
ISO7093-1 IE

PSZM10Z



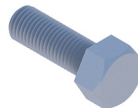
Round washer  
A2 8.4 DIN125A

PPM8A2



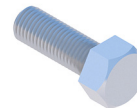
Allen screw  
M8X100 DIN912 A2

SIM8X100A2



Hexagonal screw  
M10X20 IE

SM10X20Z



Hexagonal screw  
M8X20 DIN933 A2

SM8X20A2



Purlin for support  
L=2380

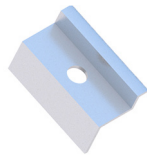
RBTSOLAR-KD-PL-2380

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



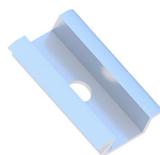
Sheet metal screw  
OC 5.5X25 EPDM

BLW55X25EPDMZ



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

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



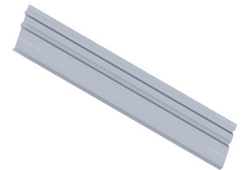
Middle clamp  
50 universal  
Nature/Black

KLRS50ALN  
KLRS50ALCZ



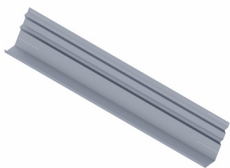
Allen screw  
M8X35 DIN912 A2

SIM8X35A2



Windchest  
South support  
L=2355

RBTSOLAR-KD-W-2355



Ballast wind shelter  
South support  
L=2355

RBTSOLAR-KD-WB-2355