



01

Welded structure

FR-W-US-S/H/SA/MAX-LONG2100

TYPE

Universal (US)

MODULE DIRECTION

South (S)

MODULE LAYOUT

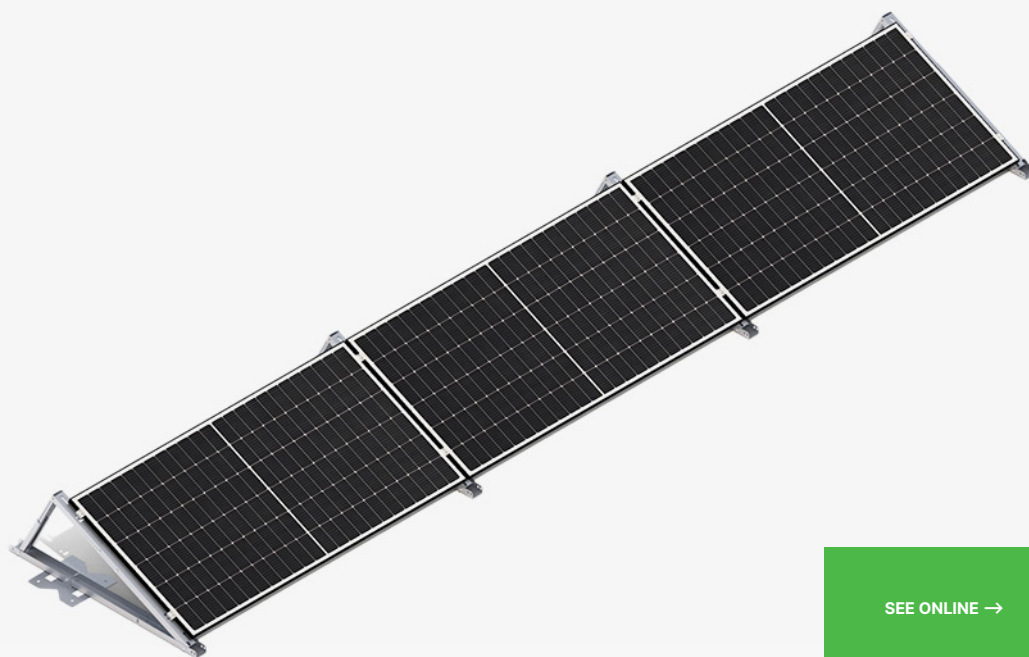
Horizontal (H)

INSTALLATION

Short side (SA)

MAX PV MODULE LENGTH

2100



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](#)

CHARACTERISTICS

FR-W-US-S/H/SA/MAX-LONG2100

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	Horizontal (H)
How to install a PV module	Short side (SA)
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 ² of installation without additional ballast (kg/m ²) ²	5,54
Purlin length (mm)	Without purlins
Wind brace length (mm)	2175
Maximum PV module length (mm) ³	2100
How to install the clamps	Clamps mounted to the triangle - key system
Method of distribution	Available in stock

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)

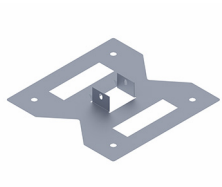


LIST OF PARTS - BASE OF CONSTRUCTION



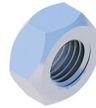
Universal triangle
South

RBTSOLAR-FR-US-S



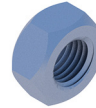
Welded base
for support

RBTSOLAR-KD-PZ



Self-locking nut
M8 DIN985 A2

NSHM8A2



Hexagonal nut
M10 IE

NM10Z



Washer M10 300HV
ISO7093-1 IE

PSZM10Z



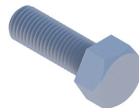
Round washer
A2 8.4 DIN125A

PPM8A2



Allen screw
M8X100 DIN912 A2

SIM8X100A2



Hexagonal screw
M10X20 IE

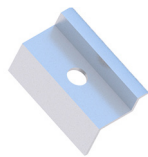
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



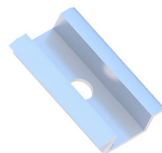
Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ



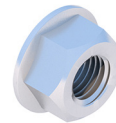
End clamp
30/32/35/40
Nature/Black

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



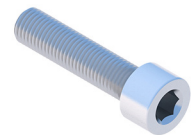
Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ



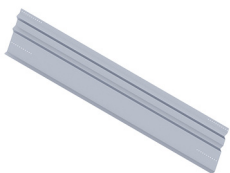
Flange nut
serrated
M8 DIN6923 A2

NKM8A2



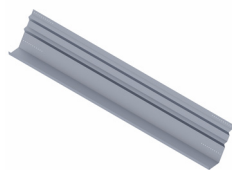
Allen screw
M8X35 DIN912 A2

SIM8X35A2



Windchest
South support
L=2175/2355/2703mm

RBTSOLAR-KD-W-2175/2355/2703



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

RBTSOLAR-KD-WB-2175/2355/2703