



13

Ballast structure

FR-B-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, where necessary additional ballast, without the possibility of using a welded structure.
- Non-invasive assembly, using the appropriate number of ballast blocks, in accordance with the ballast plan.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.

- The system allows you to add weight to the base and simultaneously load the wind deflector with ballast (in roof areas particularly exposed to wind suction).
- In case of mounting PV modules in a vertical arrangement, an additional element are ZET profiles 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. Omega for support
(Base for ballast blocks)
RBTSOLAR-KD-PB

- 6. Base south
RBTSOLAR-KDPP_1_1560

- 7. Purlin for support L=2380
RBTSOLAR-KD-PL-2380

CHARACTERISTICS

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

Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
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 placed on the roof covering and then additionally ballasted using concrete blocks placed on a ballast platform
Does the structure require additional ballast?	Yes
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	5,78
Purlin length (mm)	2380
Wind brace length (mm)	2355
Maximum PV module length (mm) ³	1950
How to install the clamps	Clamps mounted to purlins - bean 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)

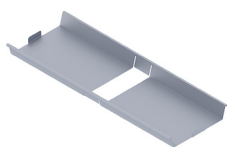


LIST OF PARTS - BASE OF CONSTRUCTION



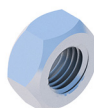
Universal triangle
South

RBTSOLAR-FR-US-S



Omega dla podpory
(Podstawa dla bloczków
balastowych)

RBTSOLAR-KD-PB



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=2380

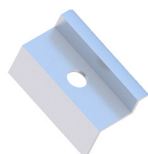
RBTSOLAR-KD-PL-2380

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



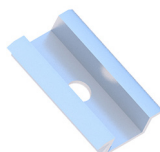
Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ



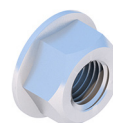
End clamp
30/32/35/40
Nature/Black

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



Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ



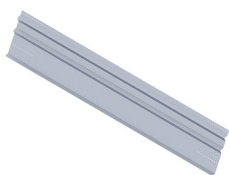
Flange nut
serrated
M8 DIN6923 A2

NKM8A2



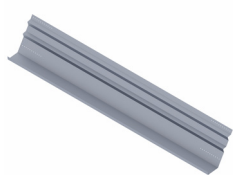
Allen screw
M8X35 DIN912 A2

SIM8X35A2



Windchest
South support
L=2355

RBTSOLAR-KD-W-2355



Ballast wind shelter
South support
L=2355

RBTSOLAR-KD-WB-2355