

Flat roof structures

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Flat roof structures (FR)

JCTURE	CARD NO.		MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH	PAGE
ded	01	Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100	3
cture (FR-W)	02	Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100	6
						2300	
						2500	
	03	Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950	9
	04	Universal (US)	East-west (EW)	Horizontal (H)	Short side (SA)	2100	12
	05	Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100	15
						2300	
						2500	
	06	Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual	
	07	Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual	
	08	Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	Individual	
	09	Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual	
	10	Projected (PS)	East-west (EW)	Horizontal (H)	Long side (LAZ)	Individual	
ast ()	11	Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100	18
cture (FR-B)	12	Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100	21
		Universal (US)	South (S)	Horizontal (H)		2300	
		Universal (US)	South (S)	Horizontal (H)		2500	
	13	Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950	24
	14	Universal (US)	East-west (EW)	Horizontal (H)	Short side (SA)	2100	27
	15	Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100	30
		Universal (US)	East-west (EW)	Horizontal (H)		2300	
		Universal (US)	East-west (EW)	Horizontal (H)		2500	
		Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual	
	17	Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual	
		Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	Individual	
		Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual	
	20	Projected (PS)	East-west (EW)	Horizontal (H)	Long side (LAZ)	Individual	
	21	Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100	33
cture (FR-S)	22	Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100	36
		Universal (US)	South (S)	Horizontal (H)		2300	
		Universal (US)	South (S)	Horizontal (H)		2500	
	23	Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950	39
	24	Universal (US)	East-west (EW)	Horizontal (H)	Short side (SA)	2100	42
	25	Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100	45
		Universal (US)	East-west (EW)	Horizontal (H)		2300	
		Universal (US)	East-west (EW)	Horizontal (H)		2500	
	26	Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual	
	27	Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual	
	28	Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	Individual	
	29	Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual	

Legal note ightarrow

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Flat roof structures (FR)





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 ofmembrane 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.

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Flat roof structures (FR)



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	Yes - possibility of additional ballasting of the wind tower
(weld + ballast)?	
Approximate weight of the structure per 1m ² of installation	5,54
without additional ballast (kg/m ²) ²	
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

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



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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Sheet metal screw OC 5.5X25 EPDM

BLW55X25EPDMZ

KLK50/30(32/35/40)ALCZ



Ballast wind shelter

L=2175/2355/2703mm

RBTSOLAR-KD-WB-2175/2355/2703

South support

Windchest South support L=2175/2355/2703mm RBTSOLAR-KD-W-2175/2355/2703



End clamp 30/32/35/40 Nature/Black KLK50/30(32/35/40)ALN

KLSR50ALCZ



Middle clamp 50 universal Nature/Black KLSR50ALN



Flange nut serrated M8 DIN6923 A2



Allen screw M8X35 DIN912 A2

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- → 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).
- → In case of mounting PV modules in a horizontal 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 welded to the membrane.
- Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

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Flat roof structures (FR)

Upper telescope - short side Lower telescope - short side 4 Upper telescope - long side 3. 4. Lower telescope - long side 5. Welded base for support 6. Base south RBTSOLAR-KDPP_1_1560 Purlin for support L=2175/2380/2728 RBTSOLAR-KD-PL-2175/2380/2728 7.

CHARACTERISTICS

FR-W-US-S/H/LAZ

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	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	Yes - possibility of additional ballasting of the wind tower
(weld + ballast)?	
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	9,76	8,54	7,26
without additional ballast (kg/m2)2			
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	2175	2355	2703
Maximum PV module length (mm)3	2100	2300	2500

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the proper installation



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LIST OF PARTS - BASE OF CONSTRUCTION



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



Windchest South support L=2175/2355/2703mm RBTS0LAR-KD-W-2175/2355/2703



Ballast wind shelter South support L=2175/2355/2703mm RBTSOLAR-KD-WB-2175/2355/2703

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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.

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Flat roof structures (FR)

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CHARACTERISTICS

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

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

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



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LIST OF PARTS - BASE OF CONSTRUCTION



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



Windchest South support L=2355 **RBTSOLAR-KD-W-2355**



Ballast wind shelter South support L=2355 RBTSOLAR-KD-WB-2355



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S 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



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CHARACTERISTICS

Flat roof (FR)
Welded (W)
Universal (US)
East-west (EW)
Horizontal (H)
Short side (SA)
PVC membrane/bituminous membrane
The base of the structure is welded to the roof surface
No
No
9,49
Without purlins
Without wind guard
2100
Clamps mounted to the triangle - key system
Available in stock

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

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

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



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Flat roof structures (FR)

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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS



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



Allen screw M8X35 DIN912 A2

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Flat roof structures (FR)





DESCRIPTION

- → Multi-part structure, made of Magnelis[™] sheet metal, intended for flat roofs, without the needadditional 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).
- → In the case of mounting PV modules in a horizontal 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 welded to the membrane.

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Flat roof structures (FR)

Lower telescope - long side 2. Upper telescope - long side 3. Upper telescope - long side 4. Purlin for support L=2175/2380/2728 5. Lower telescope - long side 6. Middle telescope - base 8. Welded base for support 9. End telescope - base

CHARACTERISTICS

FR-W-US-EW/H/LAZ

Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Universal (US)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
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	No
(weld + ballast)?	
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	16,80	15,05	12,89
without additional ballast (kg/m2)2			
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	Without wind guard	Without wind guard	Without wind guard
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



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Flat roof structures (FR)

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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS



End clamp 30/32/35/40 Nature/Black KLK50/30(32/35/40)ALN KLK50/30(32/35/40)ALCZ ()

Flange nut serrated M8 DIN6923 A2 NKM8A2



Allen screw M8X35 DIN912 A2

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Flat roof structures (FR)





DESCRIPTION

- → Multi-part structure, made of Magnelis[™] sheet metal, intended for flat roofs, where additional ballast is neccessary, without the possibility of using a welded structure.
- → Non-invasive assembly, using the appropriate number of ballast blocks, in accordance with the ballast plan.
- $\rightarrow\,$ 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).

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.

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Flat roof structures (FR)

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CHARACTERISTICS

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

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	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 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	Yes - possibility of additional ballasting of the wind tower
(weld + ballast)?	
Approximate weight of the structure per 1m ² of installation	6,40
without additional ballast (kg/m²)²	
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

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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



PPM8A2



Allen screw M8X100 DIN912 A2

SIM8X100A2

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Sheet metal screw OC 5.5X25 EPDM

BLW55X25EPDMZ



Windchest South support L=2175/2355/2703mm RBTSOLAR-KD-W-2175/2355/2703

End clamp

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

Ballast wind shelter South support L=2175/2355/2703mm RBTSOLAR-KD-WB-2175/2355/2703



Middle clamp 50 universal Nature/Black KLSR50ALN KLSR50ALCZ



Flange nut serrated M8 DIN6923 A2

NKM8A2



Allen screw M8X35 DIN912 A2

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Flat roof structures (FR)





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).
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Flat roof structures (FR)

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CHARACTERISTICS

FR-B-US-S/H/LAZ

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	Horizontal (H)
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	Yes - possibility of additional ballasting of the wind tower
(weld + ballast)?	
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	10,22	10,61	11,20
without additional ballast (kg/m2)2			
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	2175	2355	2703
Maximum PV module length (mm)3	2100	2300	2500

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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Sheet metal screw OC 5.5X25 EPDM

BLW55X25EPDMZ



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 RBTS0LAR-KD-W-2175/2355/2703



Ballast wind shelter South support L=2175/2355/2703mm RBTSOLAR-KD-WB-2175/2355/2703

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- → 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).

SEE ONLINE \rightarrow

回路

→ 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.

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Flat roof structures (FR)

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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	Vetrical (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	Yes - possibility of additional ballasting of the wind tower
(weld + ballast)?	
Approximate weight of the structure per 1m ² of installation	5,78
without additional ballast (kg/m²)²	
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

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



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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Sheet metal screw OC 5.5X25 EPDM

BLW55X25EPDMZ



Windchest South support L=2355 RBTSOLAR-KD-W-2355



End clamp

Ballast wind shelter South support

RBTSOLAR-KD-WB-2355

L=2355

30/32/35/40 Nature/Black KLK50/30(32/35/40)ALN





Middle clamp 50 universal Nature/Black KLSR50ALN



Flange nut serrated M8 DIN6923 A2



Allen screw M8X35 DIN912 A2

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Flat roof structures (FR)





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.

3 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.



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Lower telescope - long side 2. Upper telescope - long side 3. Upper telescope - long side 4. Lower telescope - long side End telescope - base 5. Middle telescope - base 6. * ... Omega for support (Base for ballast blocks) RBTSOLAR-KD-PB 8. End telescope - base

CHARACTERISTICS

FR-B-US-EW/H/SA/MAX-LONG2100

Roof typeFlat roof (FR)Method of mounting the structure on the roofBallast (B)Type of constructionUniversal (US)Module orientationEast-west (EW)Module layoutHorizontal (H)How to install a PV moduleShort side (SA)Application/substrate on which it is mountedPVC membrane/bit unitMethod of assemblyThe base of the structure	
Method of mounting the structure on the roof Ballast (B) Type of construction Universal (US) Module orientation East-west (EW) Module layout Horizontal (H) How to install a PV module Short side (SA) Application/substrate on which it is mounted PVC membrane/bit unit Method of assembly The base of the structure	
Type of construction Universal (US) Module orientation East-west (EW) Module layout Horizontal (H) How to install a PV module Short side (SA) Application/substrate on which it is mounted PVC membrane/bitumin Method of assembly The base of the structure	
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Application/substrate on which it is mounted PVC membrane/bitumin Method of assembly The base of the structure	
Method of assembly The base of the structu	nous membrane
	ure is placed on the roof covering and then additionally
ballasted using concre	te blocks placed on a ballast platform
Does the structure require additional ballast? Yes	
Is it possible to apply the hybrid solution No	
(weld + ballast)?	
Approximate weight of the structure per 1m ² of installation 9,94	
Approximate weight of the structure per 1m ² of installation 9,94 without additional ballast (kg/m ²) ²	
Approximate weight of the structure per 1m ² of installation 9,94 without additional ballast (kg/m ²) ² Purlin length (mm) Without purlins	
Approximate weight of the structure per 1m² of installation 9,94 without additional ballast (kg/m²)² Without purlins Purlin length (mm) Without purlins Wind brace length (mm) Without wind guard	
Approximate weight of the structure per 1m² of installation 9,94 without additional ballast (kg/m²)² Without purlins Purlin length (mm) Without purlins Wind brace length (mm) Without wind guard Maximum PV module length (mm)³ 2100	
Approximate weight of the structure per 1m² of installation 9,94 without additional ballast (kg/m²)² Without purlins Purlin length (mm) Without of und guard Maximum PV module length (mm)³ 2100 How to install the clamps Clamps mounted to the	e triangle - key system
(weld + ballast)?	

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)

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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS





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



Middle clamp 50 universal Nature/Black KLSR50ALN KLSR50ALCZ

NKM8A2

Flange nut serrated

M8 DIN6923 A2



Allen screw M8X35 DIN912 A2

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Flat roof structures (FR)





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.
- → In the case of mounting PV modules in a horizontal arrangement, an additional element are ZET profiles with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

3 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.



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Flat roof structures (FR)

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CHARACTERISTICS

FR-B-US-EW/H/LAZ

Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
Type of construction	Universal (US)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
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	No
(weld + ballast)?	
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	17,57	15,43	13,20
without additional ballast (kg/m2)2			
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	Without wind guard	Without wind guard	Without wind guard
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 given maximum size or the module and the proposed method or its installation may driver from the installation method provided by the PV module manufacturer, whose recommendations and recommendations determine the proper installation



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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS



End clamp 30/32/35/40 Nature/Black KLK50/30(32/35/40)ALN KLK50/30(32/35/40)ALCZ

Flange nut serrated M8 DIN6923 A2 NKM8A2



Allen screw M8X35 DIN912 A2



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Flat roof structures (FR)





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.

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.

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Flat roof structures (FR)



CHARACTERISTICS

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

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	Short side (SA)
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	Yes - possibility of additional ballasting of the wind tower
(weld + ballast)?	
Approximate weight of the structure per 1m ² of installation	5,15
without additional ballast (kg/m²)²	
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

^a 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)

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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Sheet metal screw OC 5.5X25 EPDM

BLW55X25EPDMZ



Windchest South support L=2175/2355/2703mm RBTSOLAR-KD-W-2175/2355/2703



End clamp

30/32/35/40

Nature/Black

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



Ballast wind shelter South support L=2175/2355/2703mm RBTSOLAR-KD-WB-2175/2355/2703



Middle clamp 50 universal Nature/Black KLSR50ALN KLSR50ALCZ



M10 double thread screw 200/250/300

RBTSOLAR-KD-DWUG200/250/300



Flange nut serrated M8 DIN6923 A2 NKM8A2

Allen screw M8X35 DIN912 A2

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Flat roof structures (FR)

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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.

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Flat roof structures (FR)

1. Upper telescope - short side 4 2. Upper telescope - long side 3. 4. Lower telescope - long side Base south RBTSOLAR-KDPP_1_1560 5. 6. Purlin for support L=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	Yes - possibility of additional ballasting of the wind tower
(weld + ballast)?	
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	8,96	9,35	6,72
without additional ballast (kg/m2)2			
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



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LIST OF PARTS - BASE OF CONSTRUCTION









Allen screw M8X100 DIN912 A2



Hexagonal screw M8X20 DIN933 A2

SM8X20A2



RBTSOLAR-FR-US-S

Self-locking nut M8 DIN985 A2

Round washer A2 8.4 DIN125A



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

BI W55X25EPDM7



Ballast wind shelter South support L=2175/2355/2703mm RBTSOLAR-KD-WB-2175/2355/2703



Martin Conner Conf Cons

M10 double thread screw

RBTSOLAR-KD-DWUG200/250/300

200/250/300

End clamp

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

KLSR50ALCZ



Middle clamp 50 universal Nature/Black KLSR50ALN



Allen screw M8X35 DIN912 A2

SIM8X3542



Windchest South support L=2175/2355/2703mm RBTSOLAR-KD-W-2175/2355/2703

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Flat roof structures (FR)



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.
- $\rightarrow\,$ 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.

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Flat roof structures (FR)



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	Yes - possibility of additional ballasting of the wind tower
(weld + ballast)?	
Approximate weight of the structure per 1m ² of installation	5,1
without additional ballast (kg/m²)²	
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

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



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LIST OF PARTS - BASE OF CONSTRUCTION











Hexagonal screw M8X20 DIN933 A2

SM8X20A2



RBTSOLAR-FR-US-S

Self-locking nut M8 DIN985 A2

Round washer A2 8.4 DIN125A Allen screw M8X100 DIN912 A2

Purlin for support L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS





Allen screw M8X35 DIN912 A2

SIM8X35A2

Windchest South support

L=2355 RBTSOLAR-KD-W-2355

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Flat roof structures (FR)





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.

3 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.



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CHARACTERISTICS

Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Universal (US)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module	Short side (SA)
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	No
(weld + ballast)?	
Approximate weight of the structure per 1m ² of installation	8,69
without additional ballast (kg/m ²) ²	
Purlin length (mm)	Without purlins
Wind brace length (mm)	Without wind guard
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

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

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

^a 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

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Flat roof structures (FR)

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LIST OF PARTS - BASE OF CONSTRUCTION



LIST OF PARTS - OTHER INSTALLATION ELEMENTS





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



M10 double thread screw 200/250/300

RBTSOLAR-KD-DWUG200/250/300

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Flat roof structures (FR)

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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.
- $\rightarrow\,$ 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.

S 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.

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Flat roof structures (FR)



CHARACTERISTICS

FR-S-US-EW/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	East-west (EW)
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	No
(weld + ballast)?	
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	13,61	14,38	12,35
without additional ballast (kg/m2)2			
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	Without wind guard	Without wind guard	Without wind guard
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



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Flat roof structures (FR)

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LIST OF PARTS - BASE OF CONSTRUCTION



Universal triangle

RBTSOLAR-FR-US-EW

East-west



Self-locking nut M8 DIN985 A2

NSHM8A2



A2 8.4 DIN125A

PPM8A2

Round washer



Allen screw M8X100 DIN912 A2

SIM8X100A2



Purlin for support L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



End clamp 30/32/35/40 Nature/Black KLK50/30(32/35/40)ALN KLK50/30(32/35/40)ALCZ



Flange nut serrated M8 DIN6923 A2 NKM8A2

Allen screw M8X35 DIN912 A2

SIM8X35A2



M10 double thread screw 200/250/300

RBTSOLAR-KD-DWUG200/250/300

Hexagonal screw M8X20 DIN933 A2

SM8X20A2

Our representatives



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