

Ground structures



Ground structures (G)



STRUCTURE	CARD NO.	CONSTRUCTION TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORT NO.	MAX SIZE (PV MODULE)	PV MODULES NO.	PAGE
Piled structure (G-P)	01	Universal (US)	South (S)	Vertical (V)	2	2210×1200	2×1	3
		Universal (US)	South (S)	Vertical (V)	2	2210×1200	2×2	
	02	Universal (US)	South (S)	Vertical (V)	2	2465×1500	2×1	6
		Universal (US)	South (S)	Vertical (V)	2	2465×1500	2×2	
	03	Individual (I)	South (S)	Vertical (V)	1		2×4 (+2)	9
	04	Individual (I)	South (S)	Vertical (V)	2		2×4 (+2)	12
	05	Individual (I)	South (S)	Vertical (V)	2		3×3 (+3)	18
	06	Individual (I)	South (S)	Horizontal (H)	2		3×3 (+3)	21
	07	Individual (I)	South (S)	Horizontal (H)	2		4×3 (+4)	24
	08	Individual (I)	South (S)	Horizontal (H)	2		5×4 (+4)	27
	09	Individual (I)	South (S)	Horizontal (H)	2		6×6 (+6)	30
	10	Individual (I)	East-west (EW)	Vertical (V)	3		2×4-2×4 (+4)	33
Ballast structure (G-B)	11	Individual (I)	East-west (EW)	Horizontal (H)	3		3×3-3×3 (+6)	36
	12	Individual (I)	East-west (EW)	Horizontal (H)	3		4×4-4×4 (+8)	39
	13	Individual (I)	South (S)	Vertical (V)	1		2×4 (+2)	42
	14	Individual (I)	South (S)	Vertical (V)	2		2×4 (+2)	45
	15	Individual (I)	South (S)	Vertical (V)	2		3×3 (+3)	51
	16	Individual (I)	South (S)	Horizontal (H)	2		3×3 (+3)	54
	17	Individual (I)	South (S)	Horizontal (H)	2		4×3 (+4)	57
	18	Individual (I)	South (S)	Horizontal (H)	2		5×4 (+4)	60
	19	Individual (I)	South (S)	Horizontal (H)	2		6×6 (+6)	63
	20	Individual (I)	East-west (EW)	Vertical (V)	3		2×4-2×4 (+4)	66
	21	Individual (I)	East-west (EW)	Horizontal (H)	3		3×3-3×3 (+6)	69
	22	Individual (I)	East-west (EW)	Horizontal (H)	3		4×4-4×4 (+8)	72

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Individual structures are made for an individual order with 4 week production period.
Universal structures are currently in stock and available on hand.

01

Piled structure

G-P-US-S/V/2/MAX2210×1200/2×1
G-P-US-S/V/2/MAX2210×1200/2×2

TYPE

Universal (US)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

Two

NO. / WIDTH (MAX) OF PV MODULES

2×1 and/or 2×2 / 2210×1200



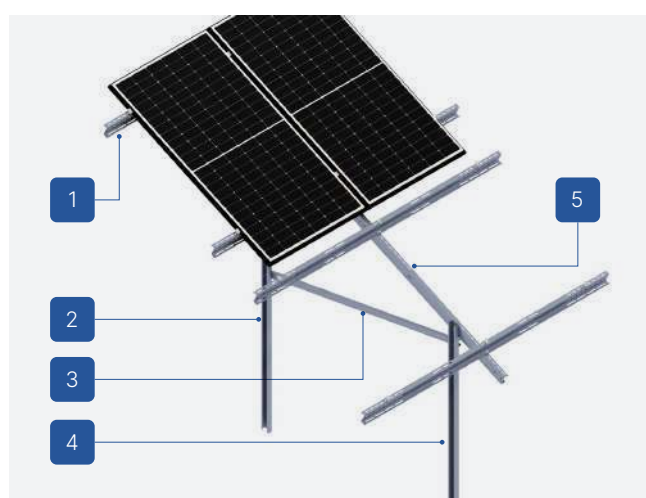
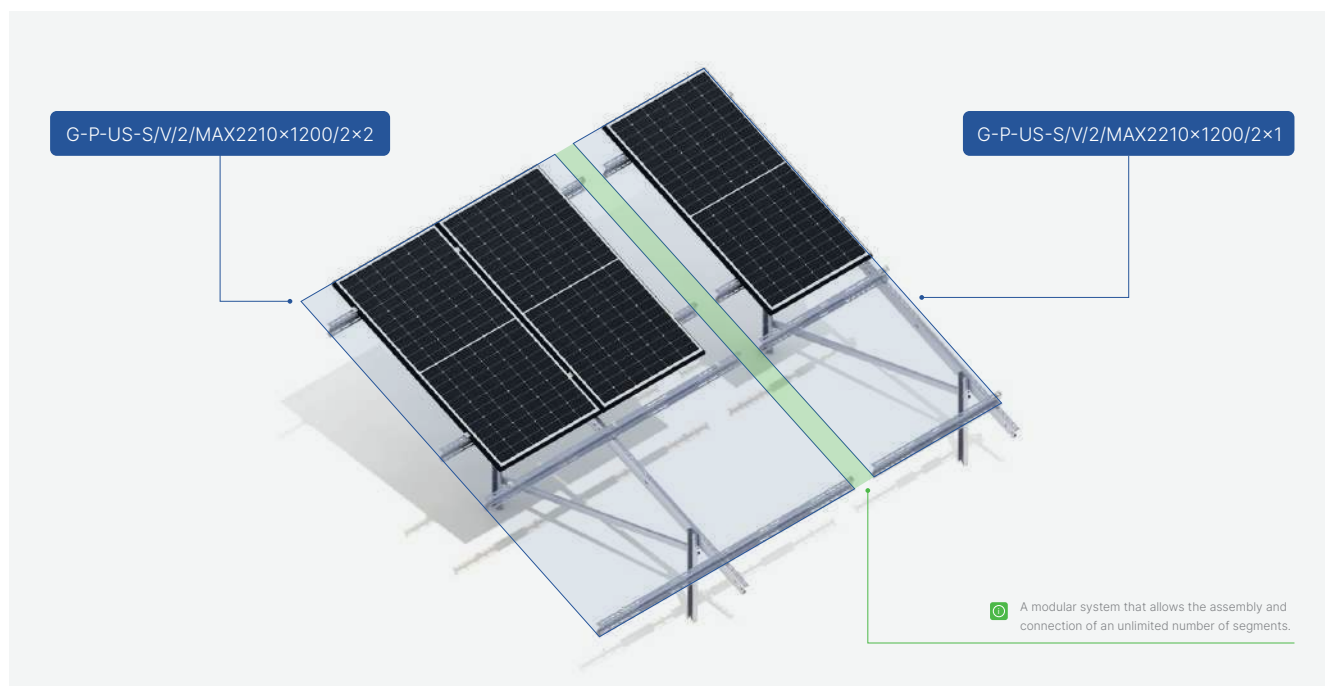
SEE ONLINE →



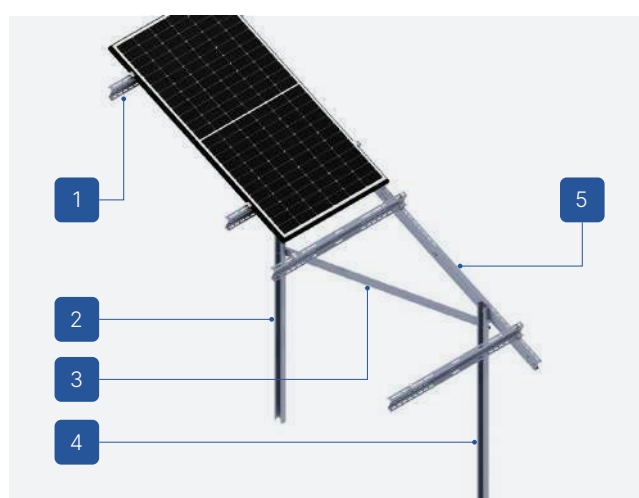
DESCRIPTION

- A universal mounting system built with adjustable, telescopic beams allowing for the use of structures for modules of different power and size.
- A multipart ground structure made of Magnelis™ steel designed for soil, piled without the need for additional ballasting.
- Excellent for constructing installations up to 50 kW that require quick delivery of structures to the construction site.
- The screw system used for mounting beams, latches, and posts does not require servicing as long as the installation is carried out according to the instructions.
- Available in stock with piling up to 1500 mm.
- A construction system for which assembly requires assembling a minimum of two construction segments - segment 2×2 and/or 2×1.
- A modular system that allows the assembly and connection of an unlimited number of segments.
- The system is designed for ground installations where the primary criterion for choosing the structure is the inability to use additional ballast.
- The possibility of using a hybrid system in which there is an option to load the column/columns with ballast in places where it is not possible to drive stakes to a specified depth.

Ground structures (G)



1. Purlin
2. Back leg/support
3. Zastrzał przód-tył
4. Front leg/support
5. Latch



1. Purlin
2. Back leg/support
3. Zastrzał przód-tył
4. Front leg/support
5. Latch

Ground structures (G)



CHARACTERISTICS

G-P-US-S/V/2/MAX2210×1200

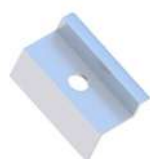
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
Type of modules	Standard/Bifacial
Shape of the column	C-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	2210×1200
Distribution method	Available in stock

2×1

2×2

Minimum number of modules on the structure	2 (+2)	4 (+4)
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LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NKM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

02

Piled structure

G-P-US-S/V/2/MAX2465×1500/2×1
G-P-US-S/V/2/MAX2465×1500/2×2

TYPE

Universal (US)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

Two

NO. / WIDTH (MAX) OF PV MODULES

2×1 i/lub 2×2 / 2465×1500



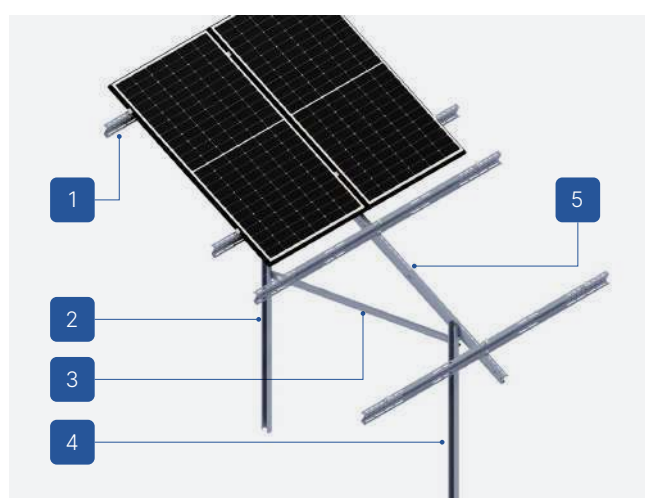
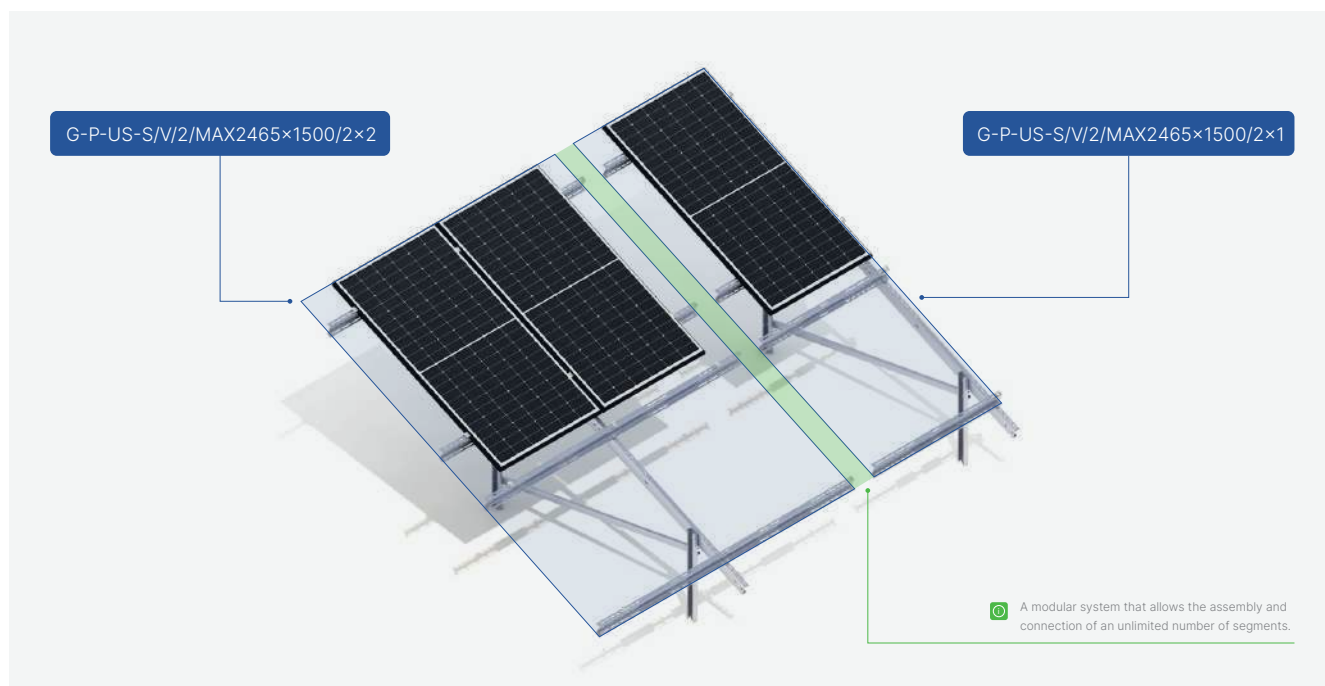
SEE ONLINE →



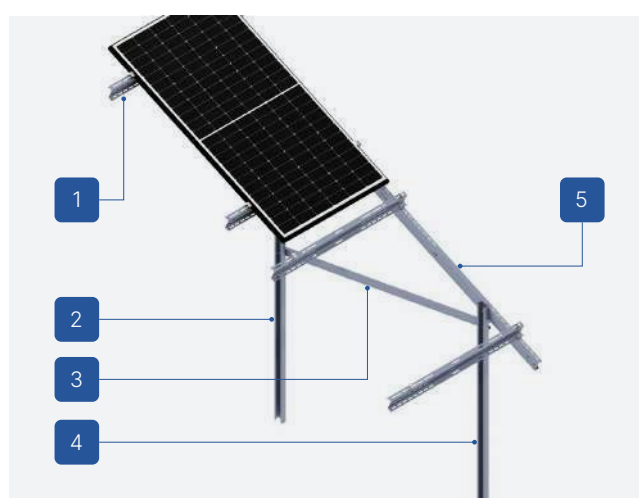
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- Available in stock with piling up to 1500 mm.
- A construction system for which assembly requires assembling a minimum of two construction segments - segment 2×2 and/or 2×1.
- A modular system that allows the assembly and connection of an unlimited number of segments.
- The system is designed for ground installations where the primary criterion for choosing the structure is the inability to use additional ballast.
- The possibility of using a hybrid system in which there is an option to load the column/columns with ballast in places where it is not possible to drive stakes to a specified depth.

Ground structures (G)



1. Purlin
2. Back leg/support
3. Zastrzał przód-tył
4. Front leg/support
5. Latch



1. Purlin
2. Back leg/support
3. Zastrzał przód-tył
4. Front leg/support
5. Latch

Ground structures (G)



CHARACTERISTICS

G-P-US-S/V/2/MAX2465×1500

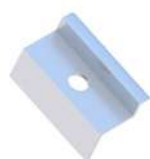
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
Type of modules	Standard/Bifacial
Shape of the column	C-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	2465×1500
Distribution method	Available in stock

2×1

2×2

Minimum number of modules on the structure	2 (+2)	4 (+4)
--	--------	--------

LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NKM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

03

Piled structure

G-P-I-S/V/1/2×4

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

One

NUMBER OF PV MODULES

2×4 (+2)



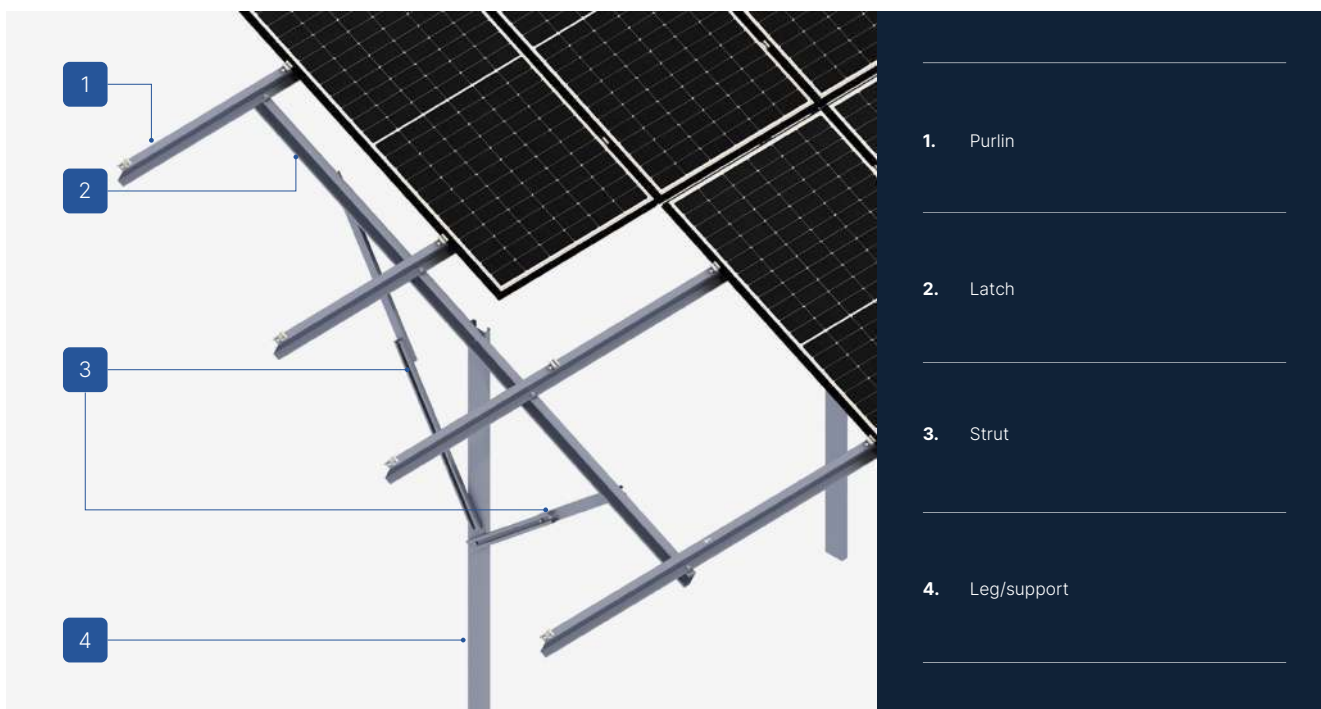
SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

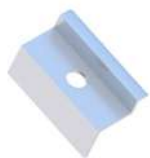
G-P-I-S/V/1/2×4

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	1
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

04A

Piled structure

G-P-I-S/V/2/2×4

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

2×4 (+2)



SEE ONLINE →



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Ground structures (G)



CHARACTERISTICS

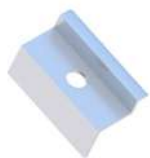
G-P-I-S/V/2/2×4

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut



04B

Piled structure

G-P-I-S/V/2/2×4

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

2×4 (+2)



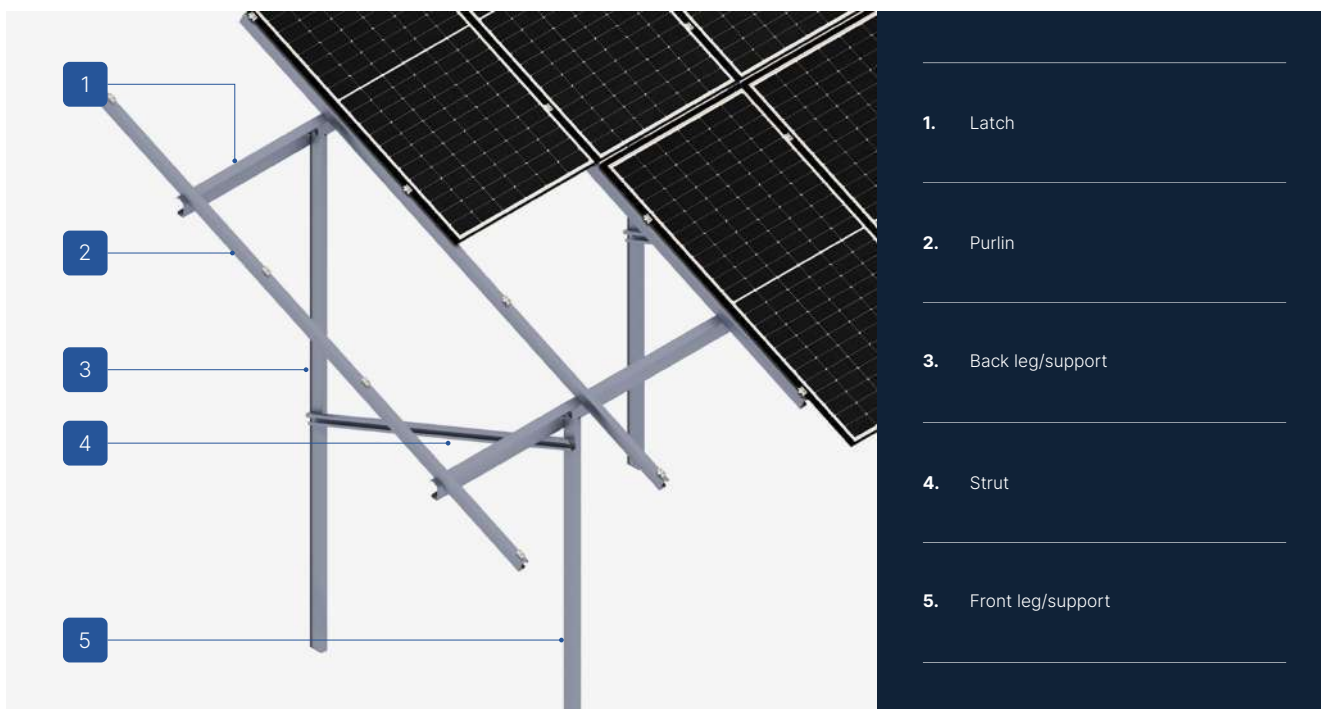
SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

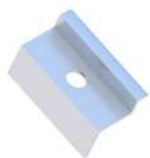
G-P-I-S/V/2/2×4

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

05

Piled structure

G-P-I-S/V/2/3×3

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

3×3 (+3)



SEE ONLINE →



DESCRIPTION

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Ground structures (G)



CHARACTERISTICS

G-P-I-S/V/2/3×3

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	3×3 (+3)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	9
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

06

Piled structure

G-P-I-S/H/2/3×3

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

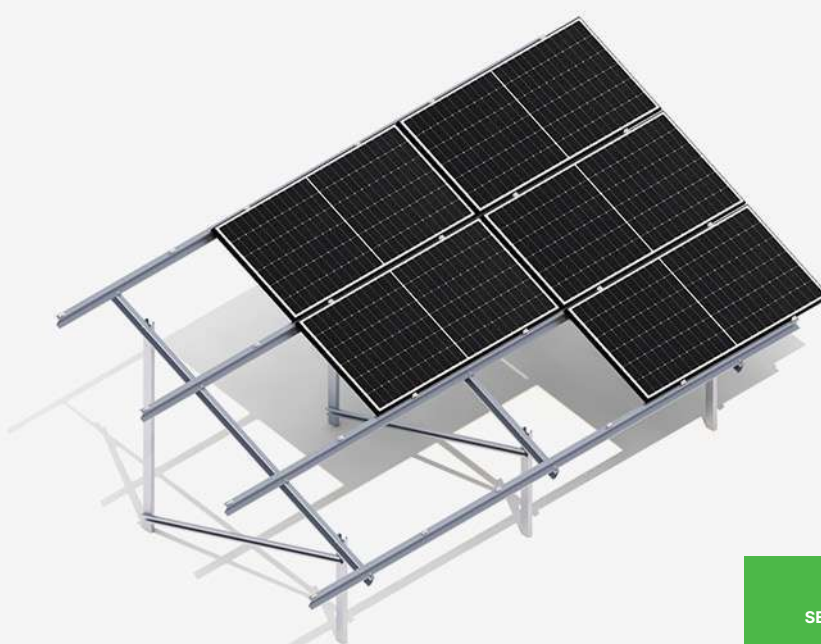
Horizontal (H)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

3×3 (+3)

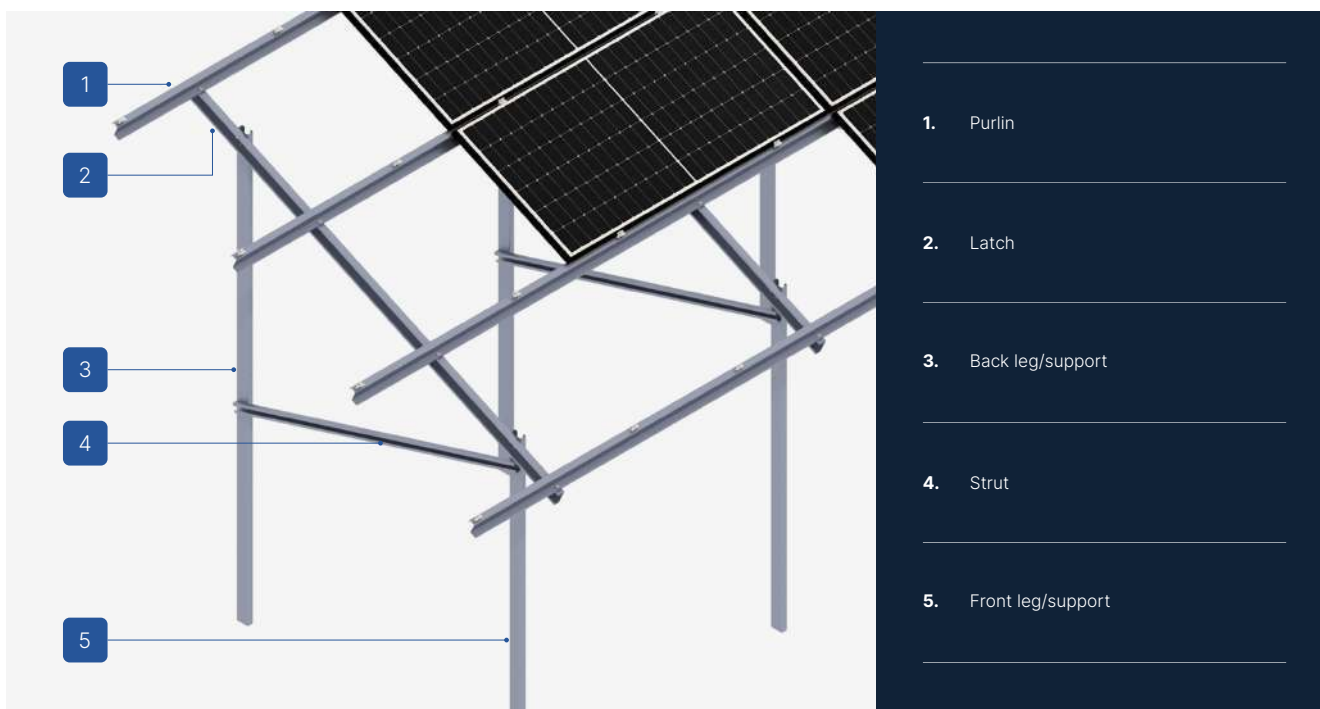


SEE ONLINE →



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CHARACTERISTICS

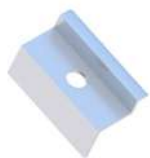
G-P-I-S/H/2/3×3

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	3×3 (+3)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	9
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

07

Piled structure

G-P-I-S/H/2/4×3

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Horizontal (H)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

4×3 (+4)

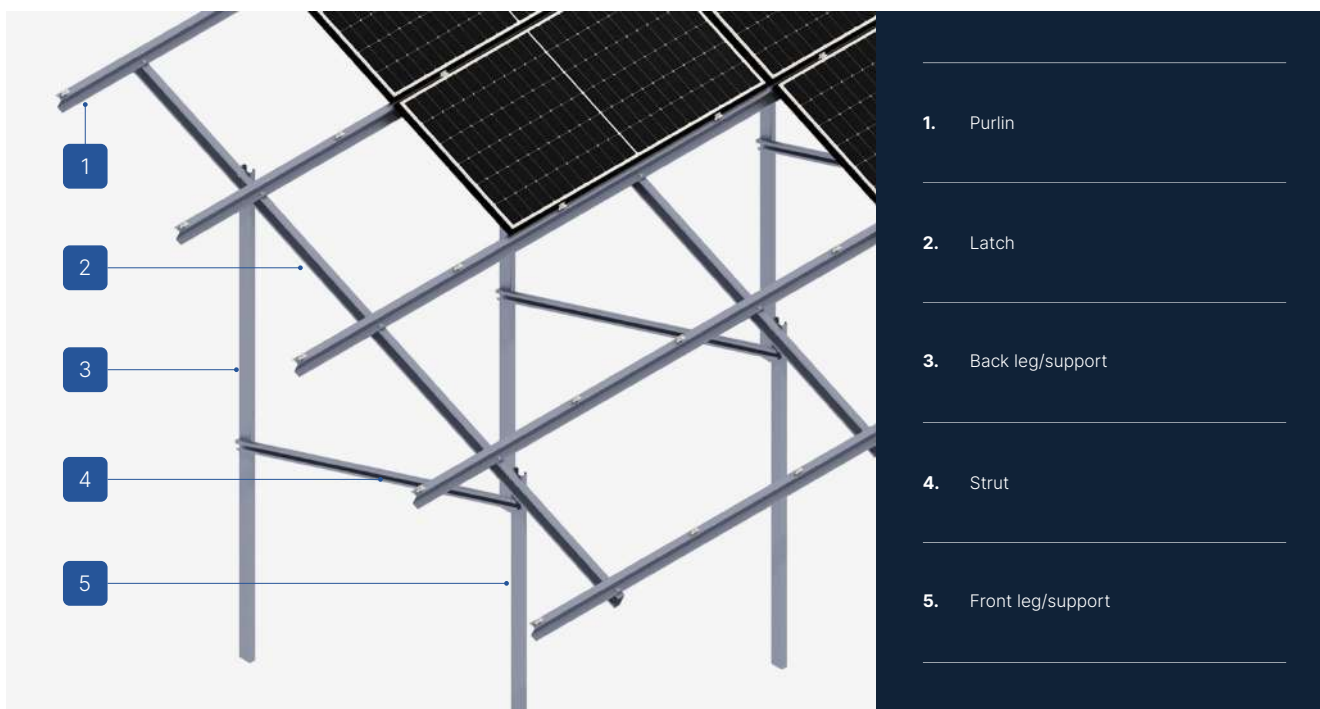


SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.



CHARACTERISTICS

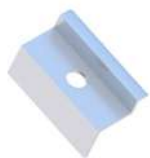
G-P-I-S/H/2/4×3

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	4×3 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	12
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

08

Piled structure

G-P-I-S/H/2/5×4

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Horizontal (H)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

5×4 (+4)



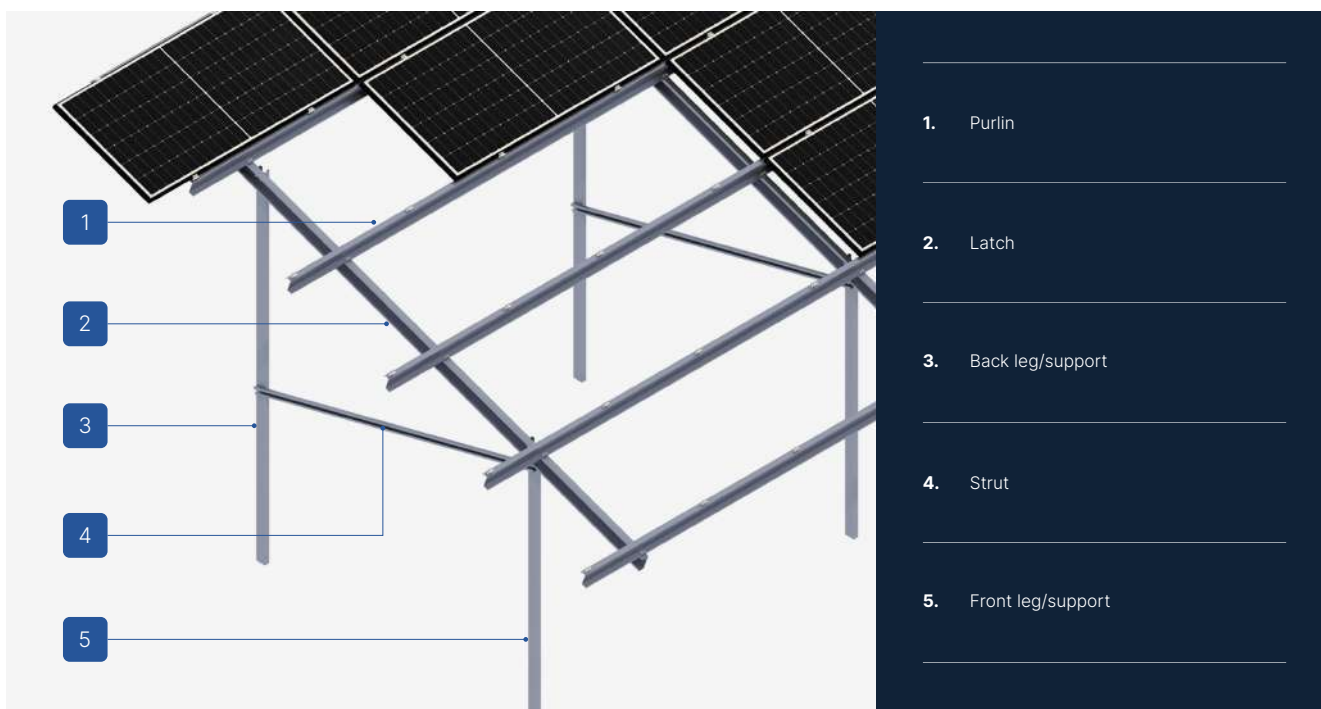
SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

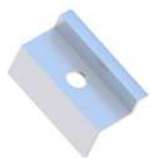
G-P-I-S/H/2/5×4

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	5×4 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	20
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

09

Piled structure

G-P-I-S/H/2/6×6

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

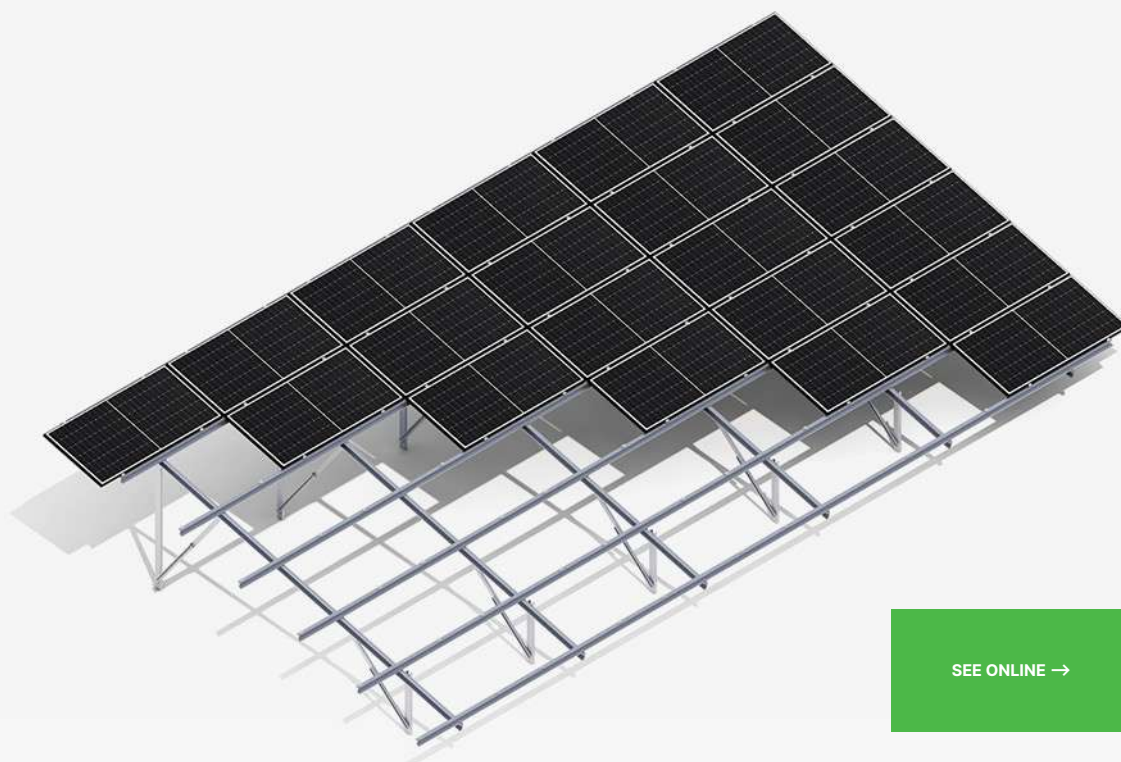
Horizontal (H)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

6×6 (+6)



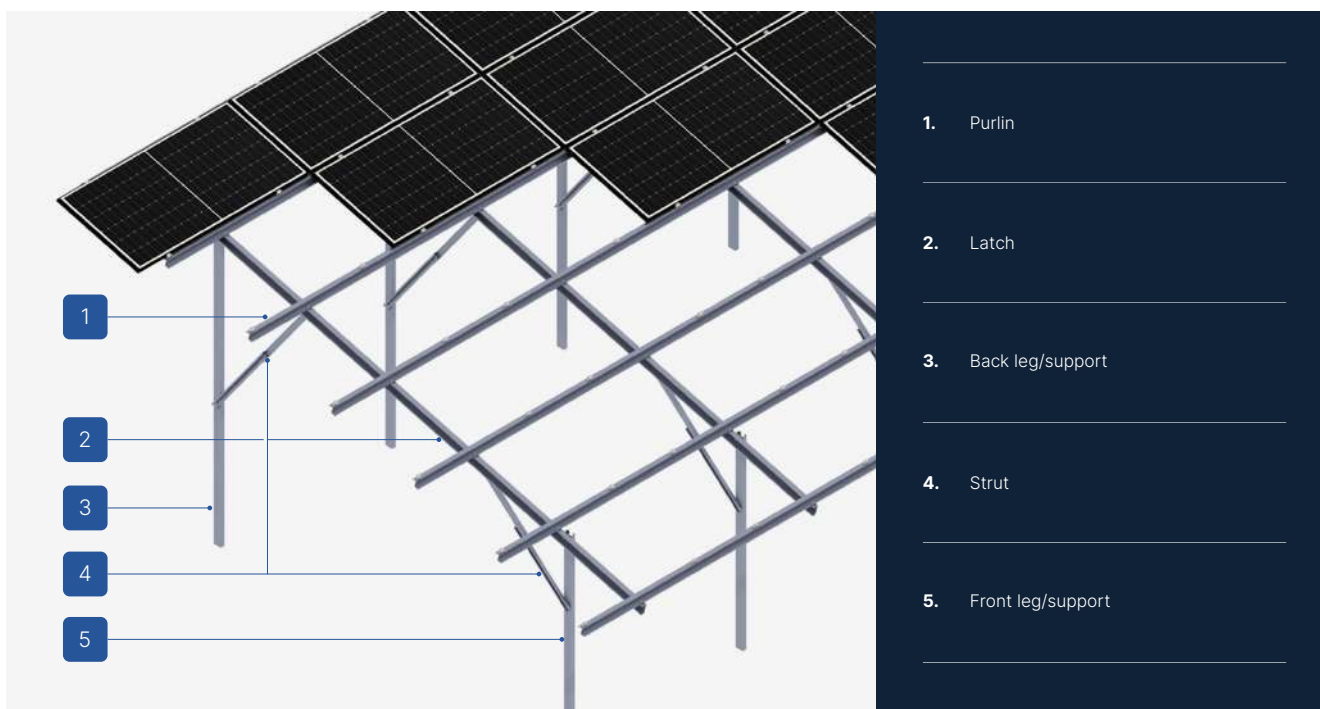
SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

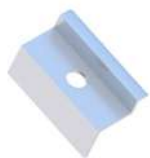
G-P-I-S/H/2/6×6

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	6×6 (+6)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	36
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

10

Piled structure

G-P-I-EW/V/3/2×4-2×4

TYPE

Individual (I)

MODULE DIRECTION

East-west (EW)

MODULE LAYOUT

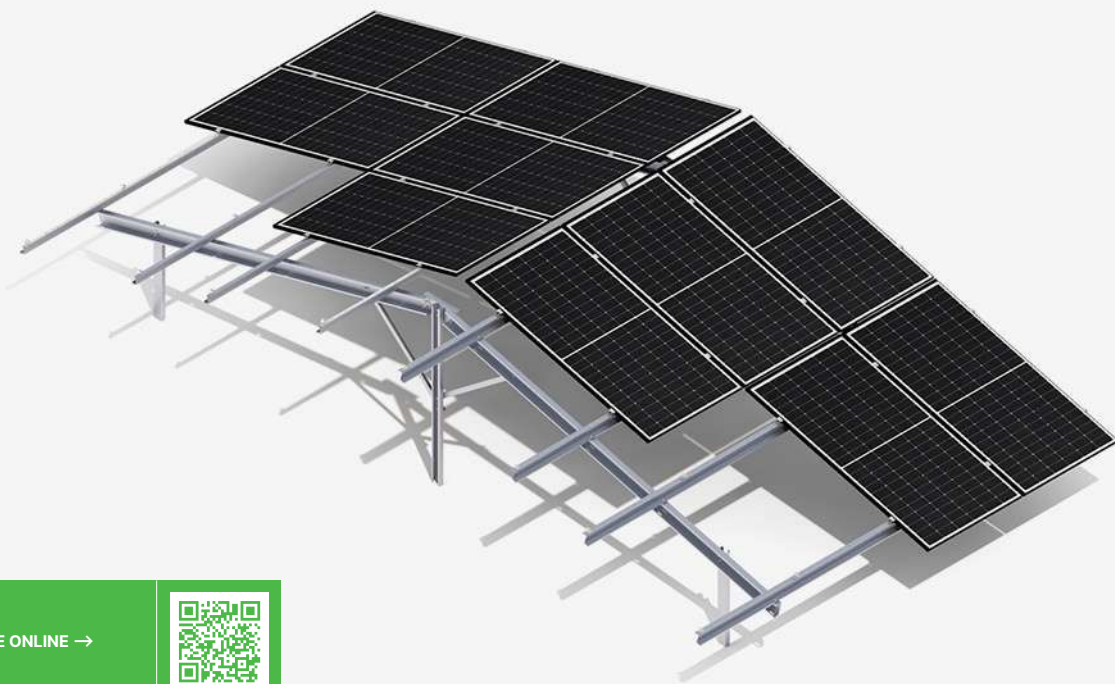
Vertical (V)

SUPPORTS NO.

Three

NUMBER OF PV MODULES

2×4 + 2×4 (+4)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

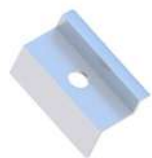
G-P-I-EW/V/3/2×4-2×4

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Vertical (V)
Number of columns	3
Number of PV modules	2×4 + 2×4 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	16
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

11

Piled structure

G-P-I-EW/H/3/3×3-3×3

TYPE

Individual (I)

MODULE DIRECTION

East-west (EW)

MODULE LAYOUT

Horizontal (H)

SUPPORTS NO.

Three

NUMBER OF PV MODULES

3×3 + 3×3 (+6)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

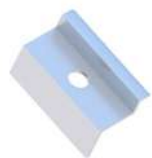
G-P-I-EW/H/3/3×3-3×3

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
Number of columns	3
Number of PV modules	3×3 + 3×3 (+6)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	18
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut

12

Piled structure

G-P-I-EW/H/3/4×4-4×4

TYPE

Individual (I)

MODULE DIRECTION

East-west (EW)

MODULE LAYOUT

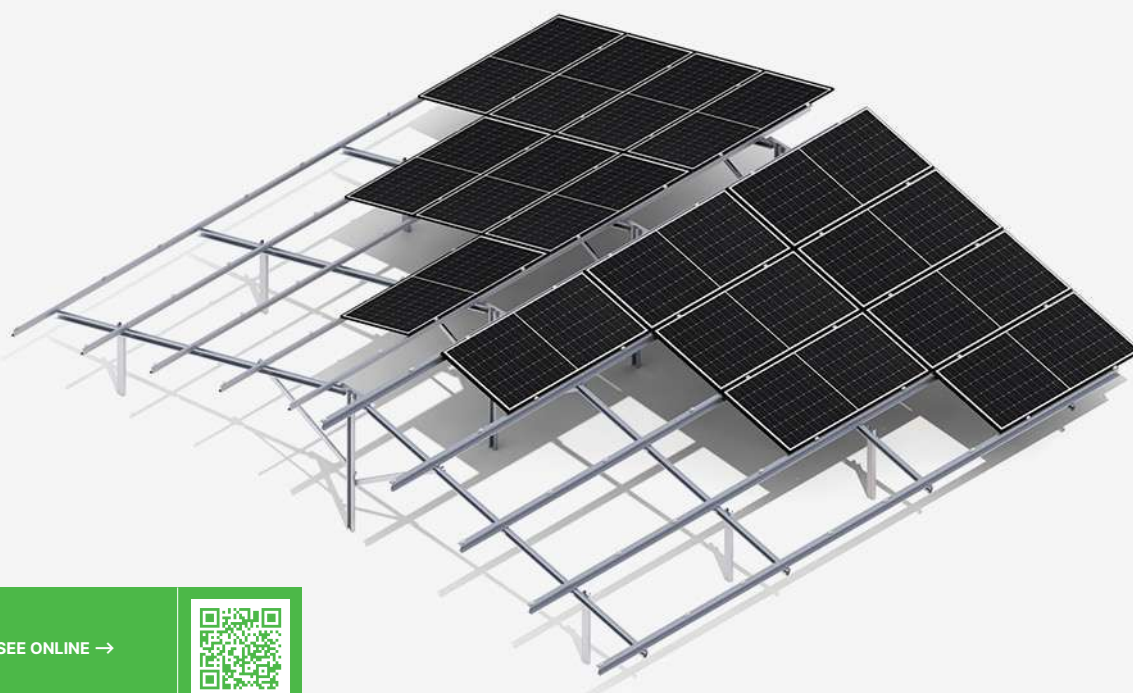
Horizontal (H)

SUPPORTS NO.

Three

NUMBER OF PV MODULES

4×4 + 4×4 (+8)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

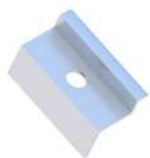
G-P-I-EW/H/3/4×4-4×4

Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
Number of columns	3
Number of PV modules	4×4 + 4×4 (+8)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	32
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Bipartite support leg
CW-profile



Strut



13

Ballast structure

G-B-I-S/V/1/2×4

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

One

NUMBER OF PV MODULES

2×4 (+2)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

G-B-I-S/V/1/2×4

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	1
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut



14A

Ballast structure

G-B-I-S/V/2/2×4

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

2×4 (+2)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

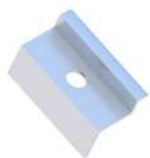
G-B-I-S/V/2/2×4

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut

14B

Ballast structure

G-P-I-S/V/2/2×4

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

2×4 (+2)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

G-B-I-S/V/2/2×4

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut

15

Ballast structure

G-B-I-S/V/2/3×3

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Vertical (V)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

3×3 (+3)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



1. Latch
2. Purlin
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS

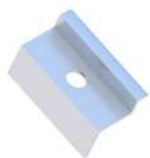
G-B-I-S/V/2/3×3

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	3×3 (+3)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	9
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut

16

Ballast structure

G-B-I-S/H/2/3×3

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Horizontal (H)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

3×3 (+3)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

G-B-I-S/H/2/3×3

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	3×3 (+3)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	9
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut

17

Ballast structure

G-B-I-S/H/2/4×3

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Horizontal (H)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

4×3 (+4)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.



CHARACTERISTICS

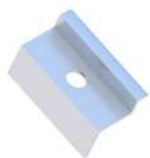
G-B-I-S/H/2/4×3

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	4×3 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	12
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut



18

Ballast structure

G-B-I-S/H/2/5×4

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

Horizontal (H)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

5×4 (+4)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

G-B-I-S/H/2/5×4

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	5×4 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	20
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut



19

Ballast structure

G-B-I-S/H/2/6×6

TYPE

Individual (I)

MODULE DIRECTION

South (S)

MODULE LAYOUT

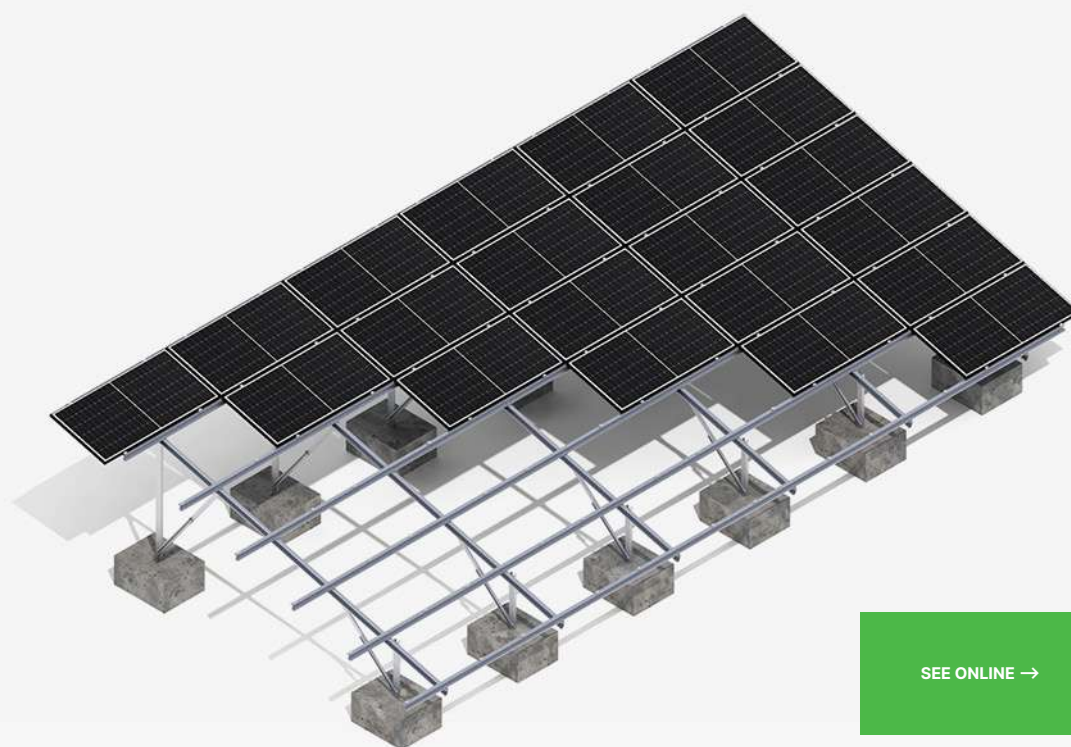
Horizontal (H)

SUPPORTS NO.

Two

NUMBER OF PV MODULES

6×6 (+6)



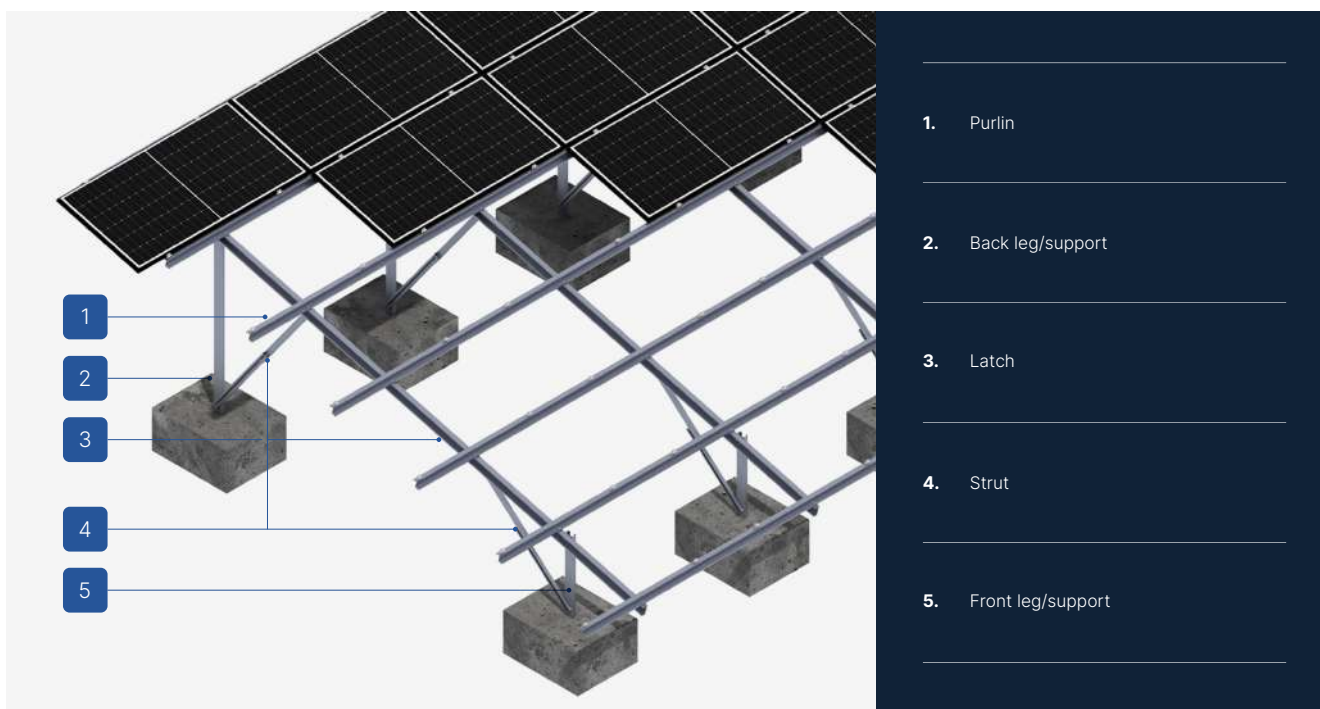
SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

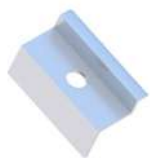
G-B-I-S/H/2/6×6

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	6×6 (+6)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	36
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut



20

Ballast structure

G-B-I-EW/V/3/2×4-2×4

TYPE

Individual (I)

MODULE DIRECTION

East-west (EW)

MODULE LAYOUT

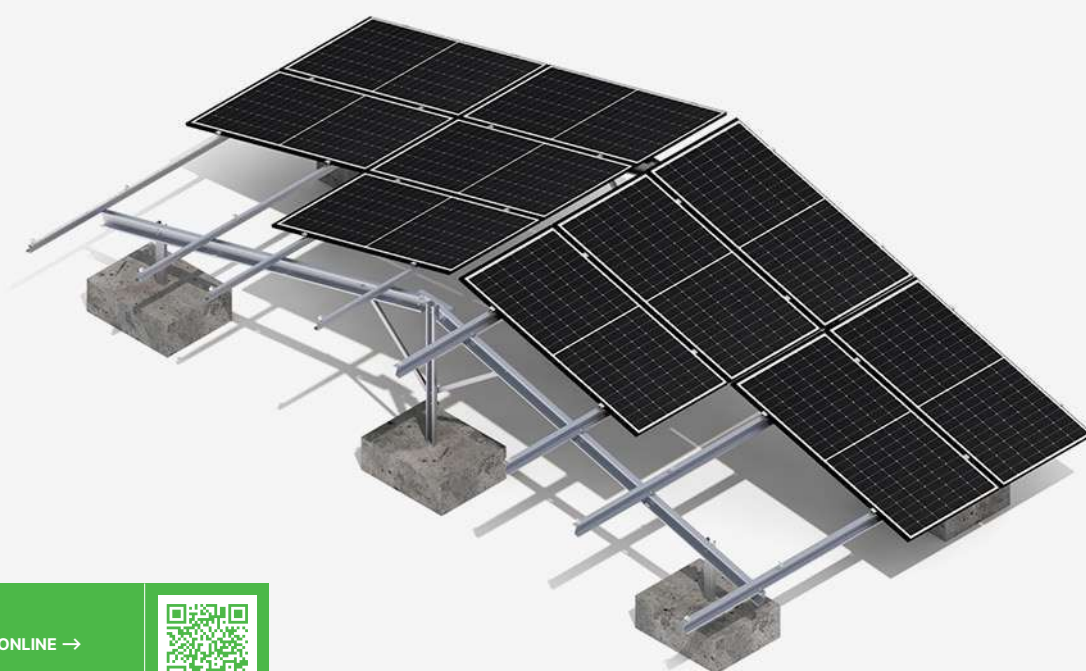
Vertical (V)

SUPPORTS NO.

Three

NUMBER OF PV MODULES

2×4 + 2×4 (+4)



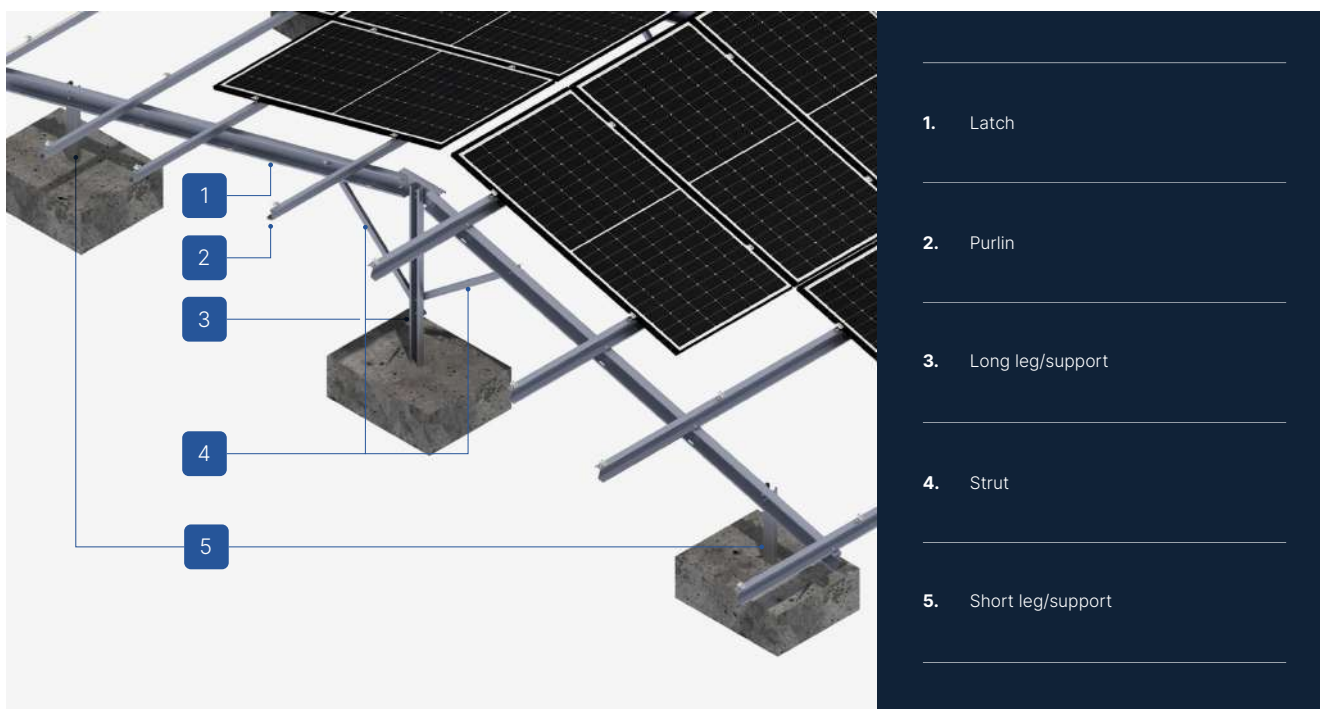
SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



CHARACTERISTICS

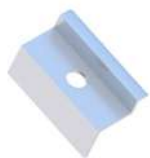
G-B-I-EW/V/3/2×4-2×4

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Vertical (V)
Number of columns	3
Number of PV modules	2×4 + 2×4 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	16
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut

21

Ballast structure

G-B-I-EW/H/3/3×3-3×3

TYPE

Individual (I)

MODULE DIRECTION

East-west (EW)

MODULE LAYOUT

Horizontal (H)

SUPPORTS NO.

Three

NUMBER OF PV MODULES

3×3 + 3×3 (+6)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
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- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

Ground structures (G)



1. Latch
2. Purlin
3. Long leg/support
4. Strut
5. Short leg/support

CHARACTERISTICS

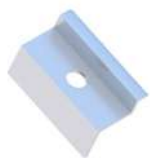
G-B-I-EW/H/3/3×3-3×3

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
Number of columns	3
Number of PV modules	3×3 + 3×3 (+6)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	18
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut

22

Ballast structure

G-B-I-EW/H/3/4×4-4×4

TYPE

Individual (I)

MODULE DIRECTION

East-west (EW)

MODULE LAYOUT

Horizontal (H)

SUPPORTS NO.

Three

NUMBER OF PV MODULES

4×4 + 4×4 (+8)



SEE ONLINE →



DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
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Ground structures (G)



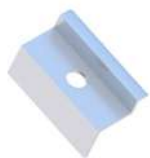
G-B-I-EW/H/3/4×4-4×4

Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
Number of columns	3
Number of PV modules	4×4 + 4×4 (+8)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additional ballasting
Minimum number of modules on the structure	32
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

Ground structures (G)



LIST OF PARTS - BASE OF CONSTRUCTION



End clamp
35
Nature/Black
KLK50/35ALN
KLK50/35ALCZ



Middle clamp
50 universal
Nature/Black
KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2
NSHM8A2



Hexagonal nut
M10 IE
NM10Z



Washer M10 300HV
ISO7093-1 IE
PSZM10Z



Allen screw
M8X100 DIN912 A2
SIM8X100A2



Hexagonal screw
M10X20 IE
SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



Strut

Our representatives



REGION ↘

CONTACT ↘

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Wielkopolskie

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WE ARE PART OF GRUPA/**rex**bud

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95-100 Zgierz
Poland
NIP 732 221 39 23



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