

WUN-026S

INSTALLATION MANUAL

Ground mounted system, double support
ground screws
2 rows of portrait modules



System dedicated for the following module dimensions: 1650-1852 mm / width 1096-1142 mm*

* For modules with specific given dimensions there are limited number of available tables.



Bezpieczeństwo
Produkcja
kontrolowana

www.tuv.com
ID 0000044726







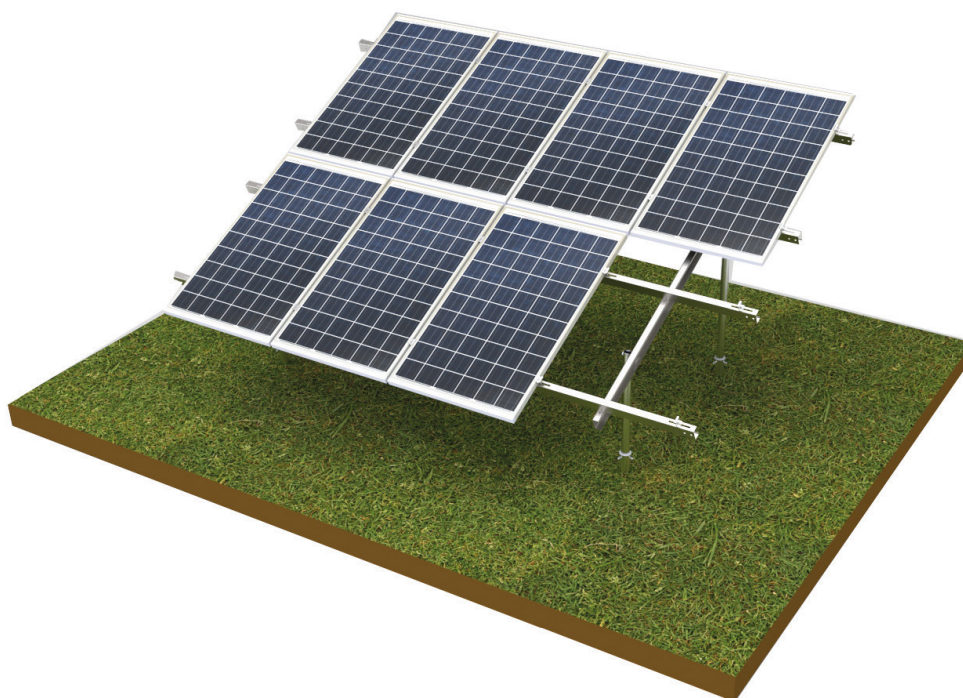
System
zarządzania
ISO 9001:2015

www.tuv.com
ID 9105046721



Tools needed for installation:

	Size 6		Size 2 x 19 mm
	Screwdriver		Screwdriver bits



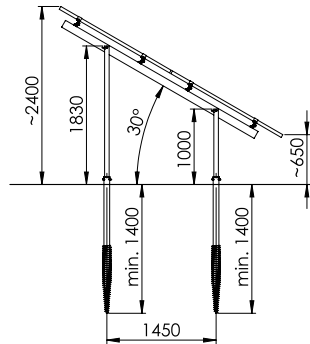
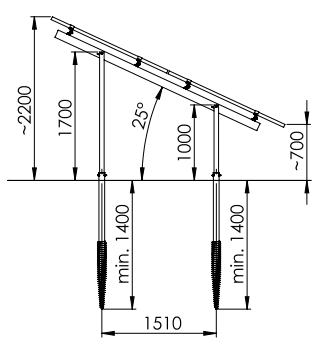
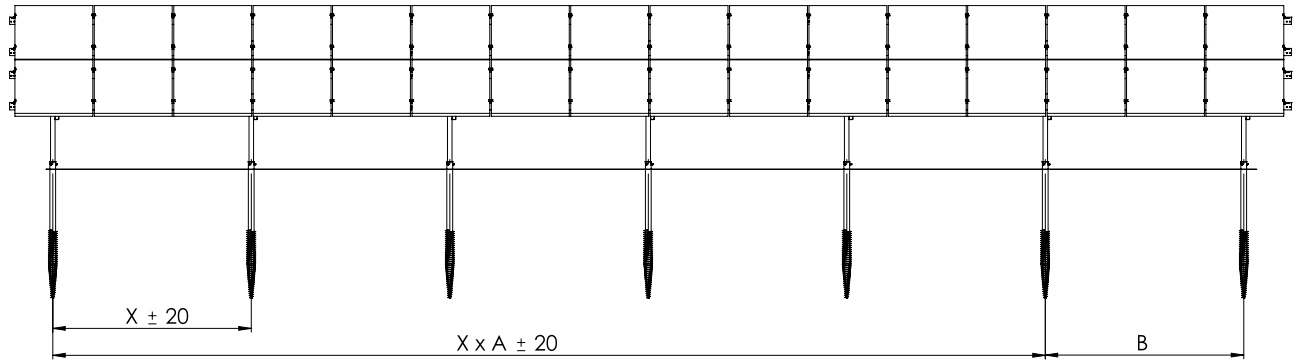
Elements

LP	Image	Indeks Index	Nazwa Name	Ilość modułów / Number of PV modules												
				32*	30*	28	26	24	22*	20	18	16	14	12	10	8
23		M1067	Podkładka poszerzana M12 Washer expanded M12	28	28	28	24	24	20	20	20	16	16	12	12	12
22		XPF_WS004N.8.001	Mocowanie inwertera Inverter mounting set	1	1	1	1	1	1	1	1	1	1	1	1	1
21		XPF_WS006U.6.001	Uniwersalne stężenie z linki Cross bracing rope	1	1	1	1	1	1	1	1	1	1	1	1	1
20		M935	Podkładka sprężysta M8 Spring washer M8	68	64	60	56	52	48	44	40	36	32	28	24	20
19		M485	Śruba imbusowa M8x20 Socket screw M8x20	8	8	8	8	8	8	8	8	8	8	8	8	8
18		M682	Śruba imbusowa M8x55 Socket screw M8x55	60	56	52	48	44	40	36	32	28	24	20	16	12
17		M635	Nakrętka M12 Nut M12	90	90	90	84	84	54	54	54	48	48	18	18	18
16		M882	Podkładka sprężysta M12 Spring washer M12	90	90	90	84	84	54	54	54	48	48	18	18	18
15		M826	Śruba M12x30 Screw M12x30	76	76	76	72	72	44	44	44	40	40	12	12	12
14		M631	Podkładka M12 Washer M12	152	152	152	144	144	88	88	88	80	80	24	24	24
13		**X_NAK00Z	Nakrętka młotkowa kontrolująca Hammer nut	68	64	60	56	52	48	44	40	36	32	28	24	20
12		Y_KK0019	Klema końcowa regulowana Adjustable end clamp	8	8	8	8	8	8	8	8	8	8	8	8	8
11		XPF_KL014	Klema środkowa Middle clamp	60	56	52	48	44	40	36	32	28	24	20	16	12
10		XPF_WS006U.5.0000	Łącznik szyny wzdłużnej Horizontal beam connector	8	8	8	8	8	4	4	4	4	4	0	0	0
9		M885	Śruba M12x80 Screw M12x80	14	14	14	12	12	10	10	10	8	8	6	6	6
8		M666	Wkręt dociskowy M12x25 Set screw M12x25	42	42	42	36	36	30	30	30	24	24	18	18	18
7		32-05-05.0006A	Uszczelka wspornika wkręcane Gasket for ground screw	14	14	14	12	12	10	10	10	8	8	6	6	6
6		32-05-05.0005	Wspornik wkręcany Ground screw	14	14	14	12	12	10	10	10	8	8	6	6	6
5		XPF_WS004.1	Podpora przednia L=1400 Front support L=1400	7	7	7	6	6	5	5	5	4	4	3	3	3
4		XPF_WS004.2	Podpora tylna L=2400 Rear support L=2400	7	7	7	6	6	5	5	5	4	4	3	3	3
3		XPF_WS006N.2.011U	Belka wzdłużna L=2500 Horizontal beam L=2500	0	0	0	0	4	0	0	0	0	4	0	0	0
		XPF_WS006N.2.010U	Belka wzdłużna L=3650 Horizontal beam L=3650	0	0	0	4	0	0	0	0	4	0	0	0	0
		XPF_WS006N.2.009U	Belka wzdłużna L=4800 Horizontal beam L=4800	0	0	4	0	0	0	0	4	0	0	0	0	4
		XPF_WS006N.2.008U	Belka wzdłużna L=5950 Horizontal beam L=5950	0	4	0	0	0	0	4	0	0	0	0	4	0
		XPF_WS006N.2.007U	Belka wzdłużna L=7100 Horizontal beam L=7100	4	0	0	0	0	4	0	0	0	0	4	0	0
2		XPF_WS006N.2.006U	Belka wzdłużna L=5600 Horizontal beam L=5600	8	8	8	8	8	4	4	4	4	4	0	0	0
1		XPF_WS017N.1.0003	Belka skośna L=2940 Slanted beam L=2940	7	7	7	6	6	5	5	5	4	4	3	3	3

* System dedicated for the following module dimensions: 1650-1852 mm / width 1100-1142 mm.

** X and Z parts of the variables in the index

1



Dimension X calculate with the following formula:

$$X = (\text{module width} + 20\text{mm}) \times 5 / 2$$

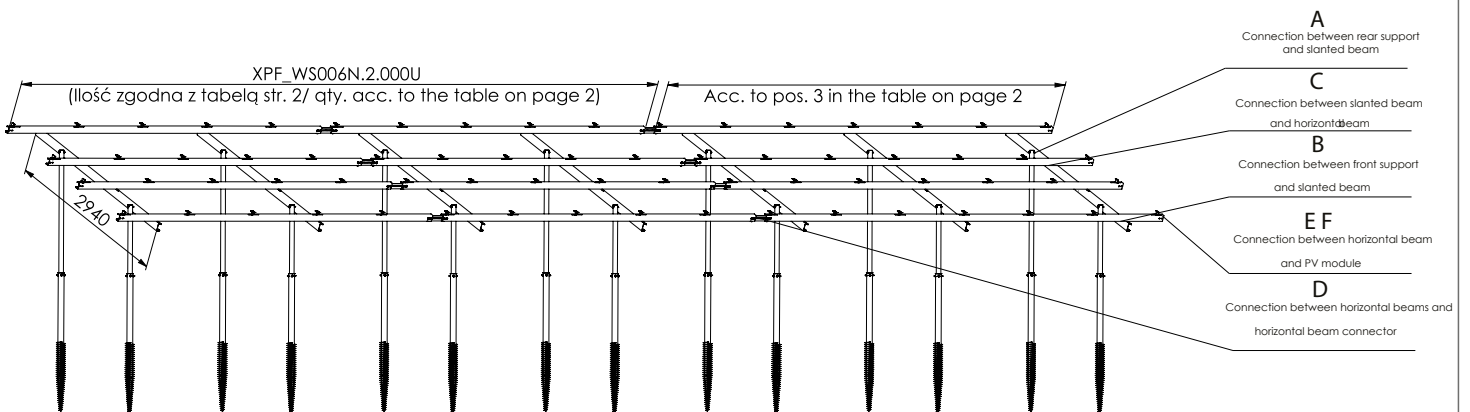
Example for 1120mm width:

$$X = (1120 + 20) \times 5 / 2$$

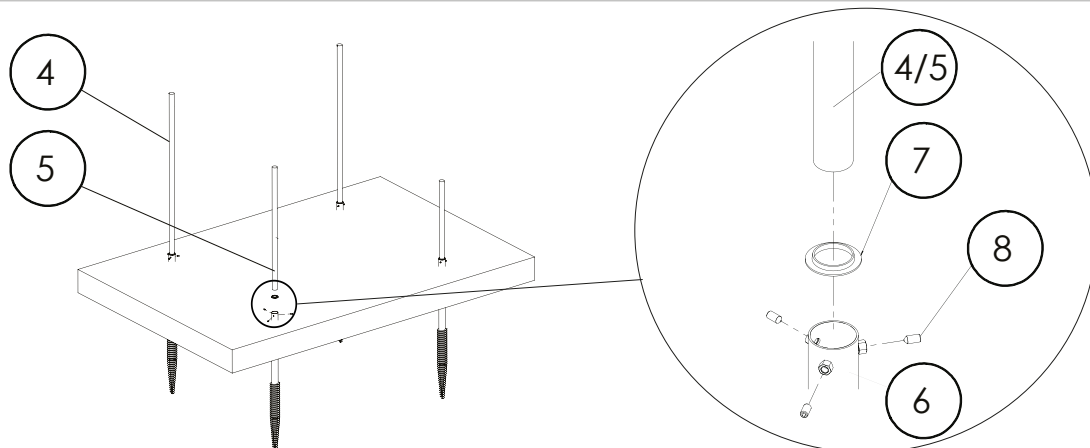
$$X = 2850 \text{ mm}$$

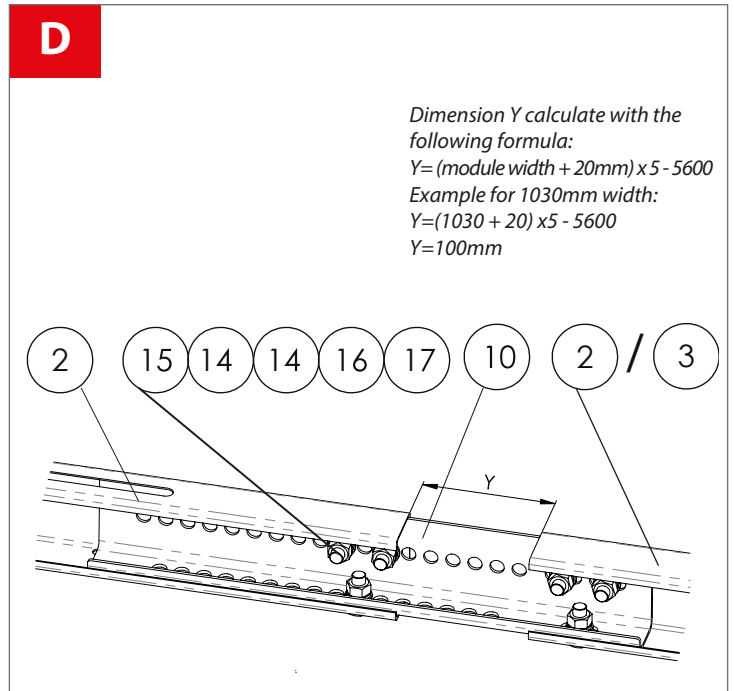
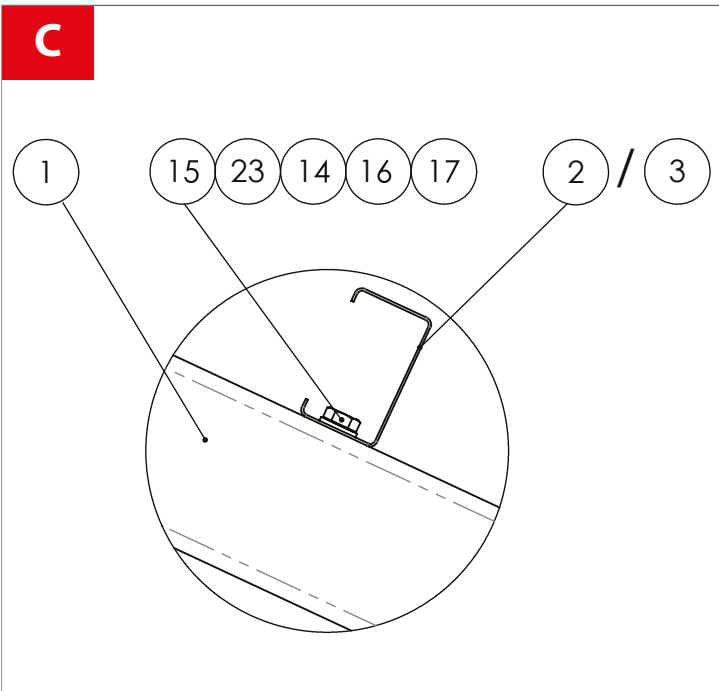
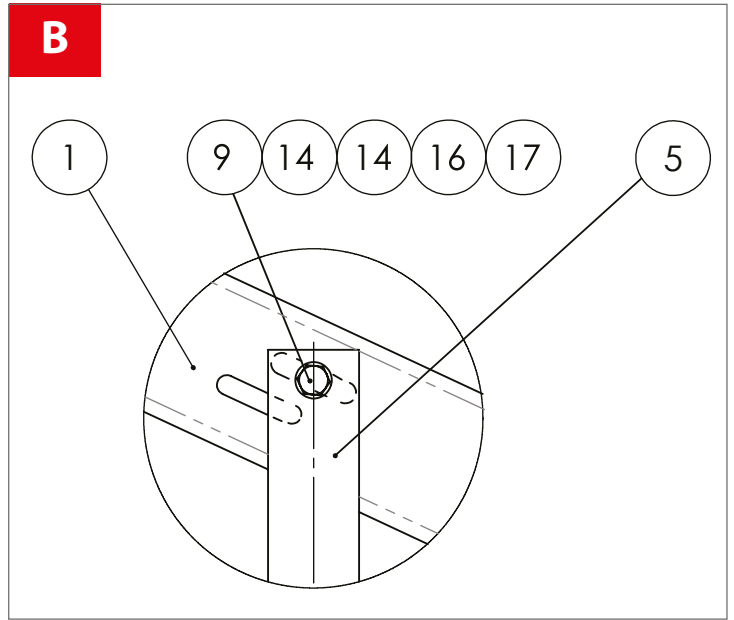
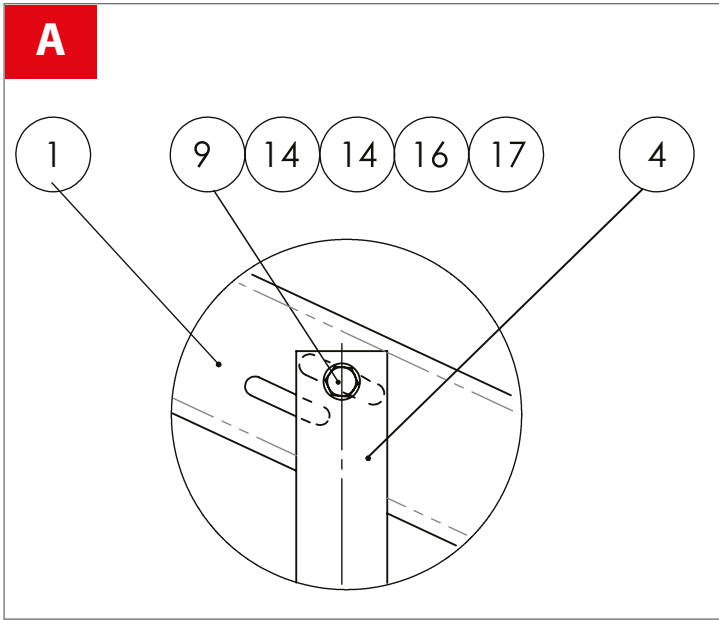
		Number of PV modules												
		32	30	28	26	24	22	20	18	16	14	12	10	8
A		6	5	5	4	4	4	3	3	2	2	2	1	1
B		0	2000	1000	2500	1500	0	2000	1000	2500	1500	0	2000	1000

2



3

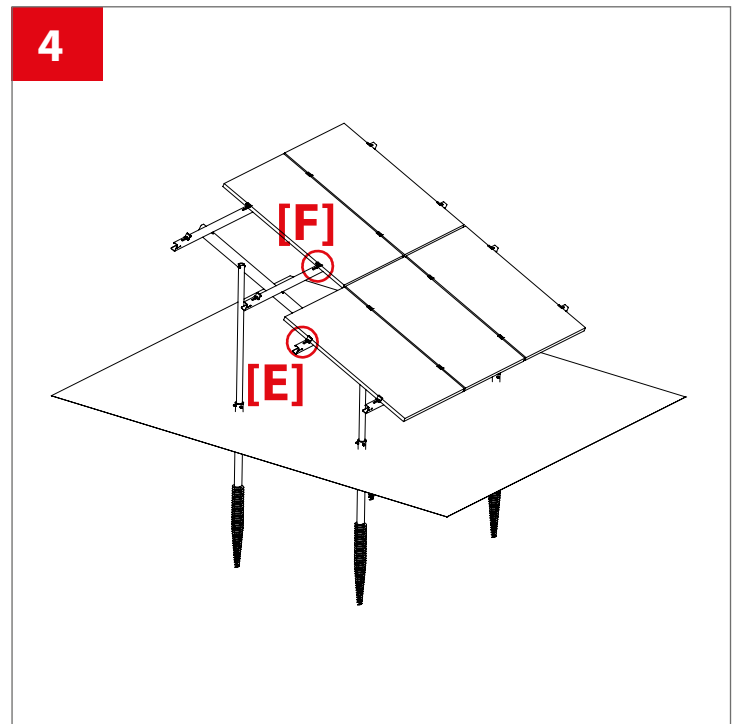




Scheme of tightening screws
1:2

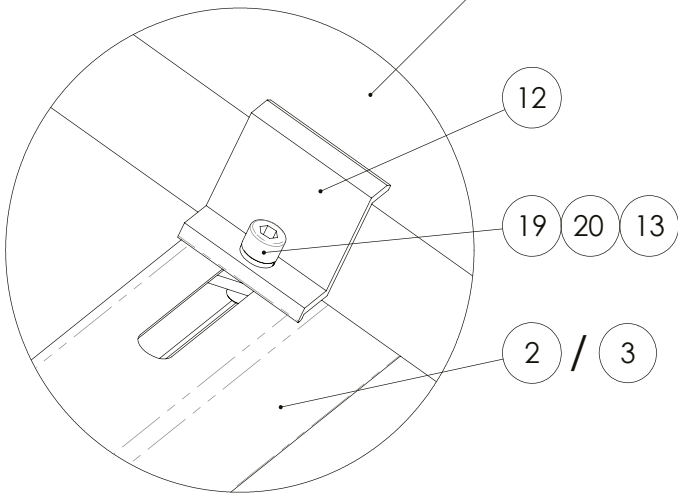
* Use DIN 9021 Extension washers on the slot side, except horizontal beam connection and supports

Screws tightening torque	
Screw size	Torque [Nm]
M12	57
M8	According to installation manual of modules

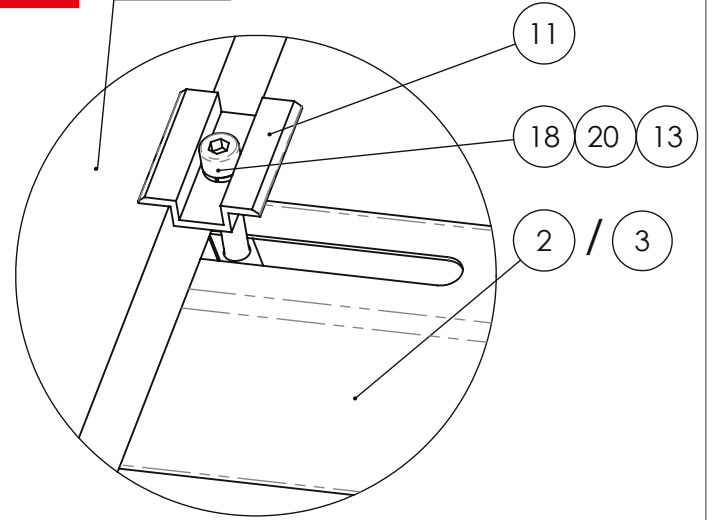
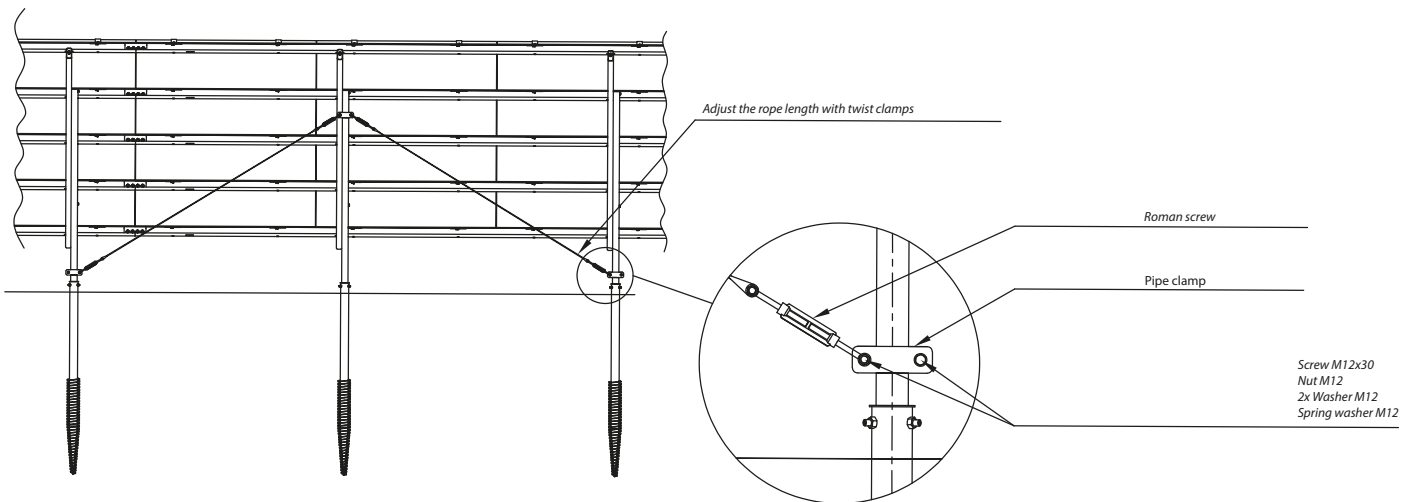


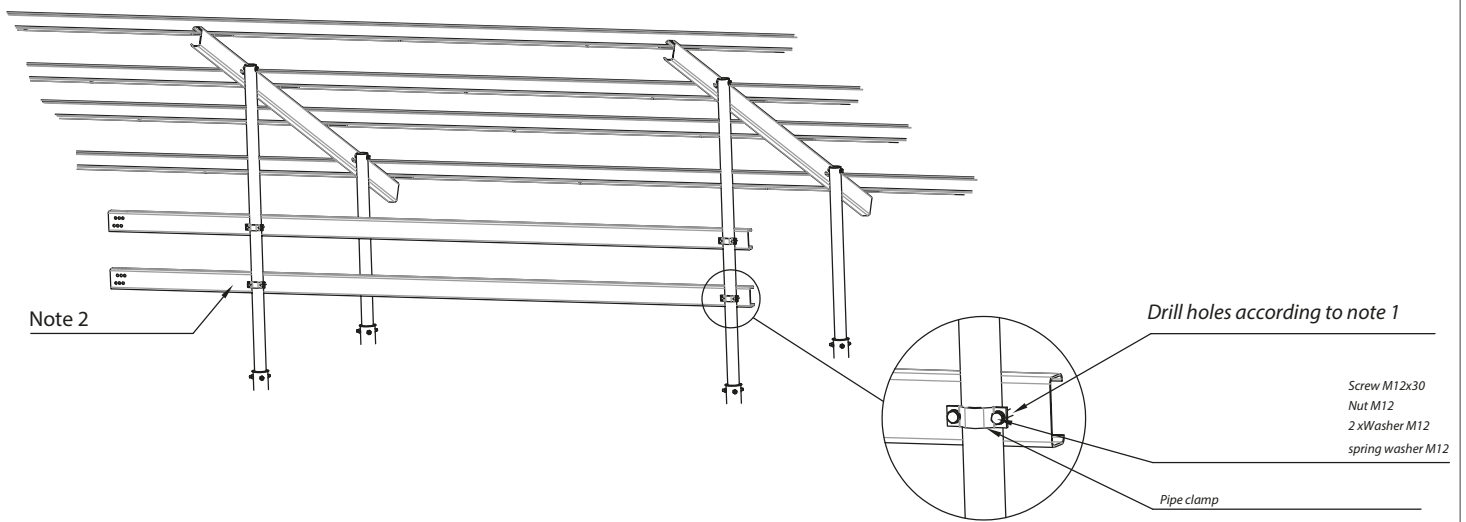
E

PV module

**F**

PV module

**5**



Note 1:

Make the holes in the supports and the inverter mounting beam for the M12 screw in the following steps:

1. Drill a pilot hole $\Phi 5$ mm
2. Drill a pilot hole $\Phi 9$ mm
3. Drill target hole $\Phi 13$ mm
4. Protect the surrounding area of the hole with a coating containing min. 96% zinc in dry layer
5. Allow to dry completely according to the instructions of the corrosion protection agent

Note 2:

The part outside the support may be cut off using cold cutting techniques (hand saw, band saw).

Protect the area around the cut with a coating containing min. 96% zinc in the dry layer.

Allow to dry completely according to the instructions of the corrosion protection product.

Do not cut with metal cutting discs!

