

# DP-DTAVBN CONSTRUCTION ASSEMBLY INSTRUCTIONS



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Aluminium ballasted structure for a flat roof.

Mounting of PV panels in a vertical arrangement (vertically).



## 1. Necessary tools for assembling the structure

- Allen spanner (ampoule spanner) size 6
- Cordless screwdriver with speed and torque control
- Hexagon socket wrench, hexagon size 6 for screwdriver head
- Combination spanners in sizes 13, 15, 17 mm
- Ratchet spanner with sockets in sizes 13, 15, 17 mm
- Extension piece 100-120mm for socket spanners
- Rubber mallet
- Torque spanner, range 10-45 Nm

## 2. General information:

- Structures can be used in wind and snow zones in accordance with the following standards: **EN 1991-1-3** and **EN 1991-1-4**
- **Before assembling the structure, please read the installation instructions for the photovoltaic panels.**
- Ballast values and locations to be determined individually by the authorized constructor
- Tighten **SAM8x...E** screws and **NKWSM8A** nuts to a torque of 12-14 Nm Šruby -
- **SSZ10x20E** screws and **NKZM10E** nuts must be tightened to a torque of 42 Nm



### 3. Summary of components of the DP-DTAVBN construction

No.	Product	Name of product	Designation in construction
1	Aluminium angle profile	KT...A	Structure support frame
2	Aluminium angle profile	KTSTA	Structure bracing
3	Aluminium profile	PAL40H40/...	Panel mounting profile
4	Aluminium profile connector	LPAN	Connecting profiles PAL40H40/...
5	Side holder	BUF...	Panel mounting holder
6	Middle holder	PUF	Middle holder for mounting panels
7	Grounding washer	PUP	Panel grounding
8	Screw	SAM8x...E	Clamping screw
9	Spring washer	PS8E	Mounting of clamps and wind shield
10	Sliding nut	NKWSM8A	Nut
11	Screw	SSZ10x20E	Screw connecting the structural elements
12	Flange nut	NKZM10E	Flange nut
13	Mushroom head screw	SGKFM...	Screw + flange nut
14	Ballast base	PDOP300MC	Ballast base
		PDOPD300MC	Ballast base for increased ballast capacity (optional)
15	Vibration-insulating rubber	SBV250x350	Separation between support structure elements and roof sheathing

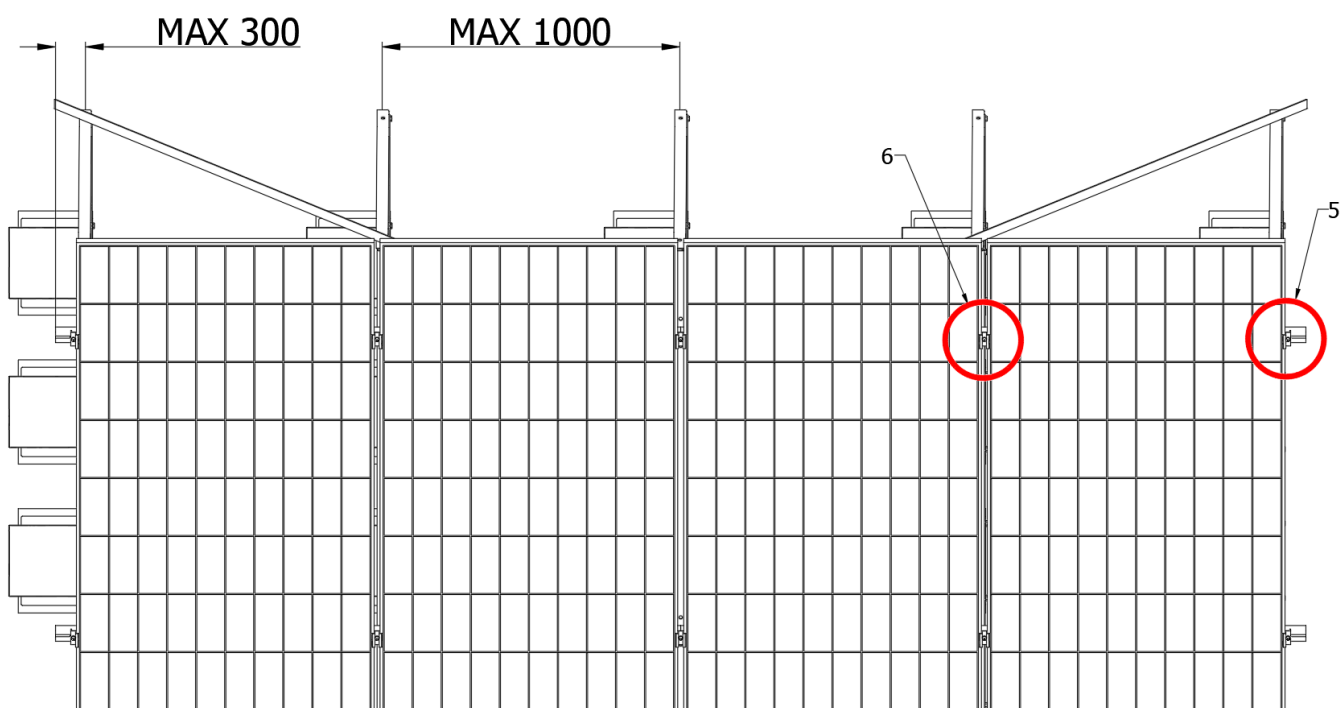
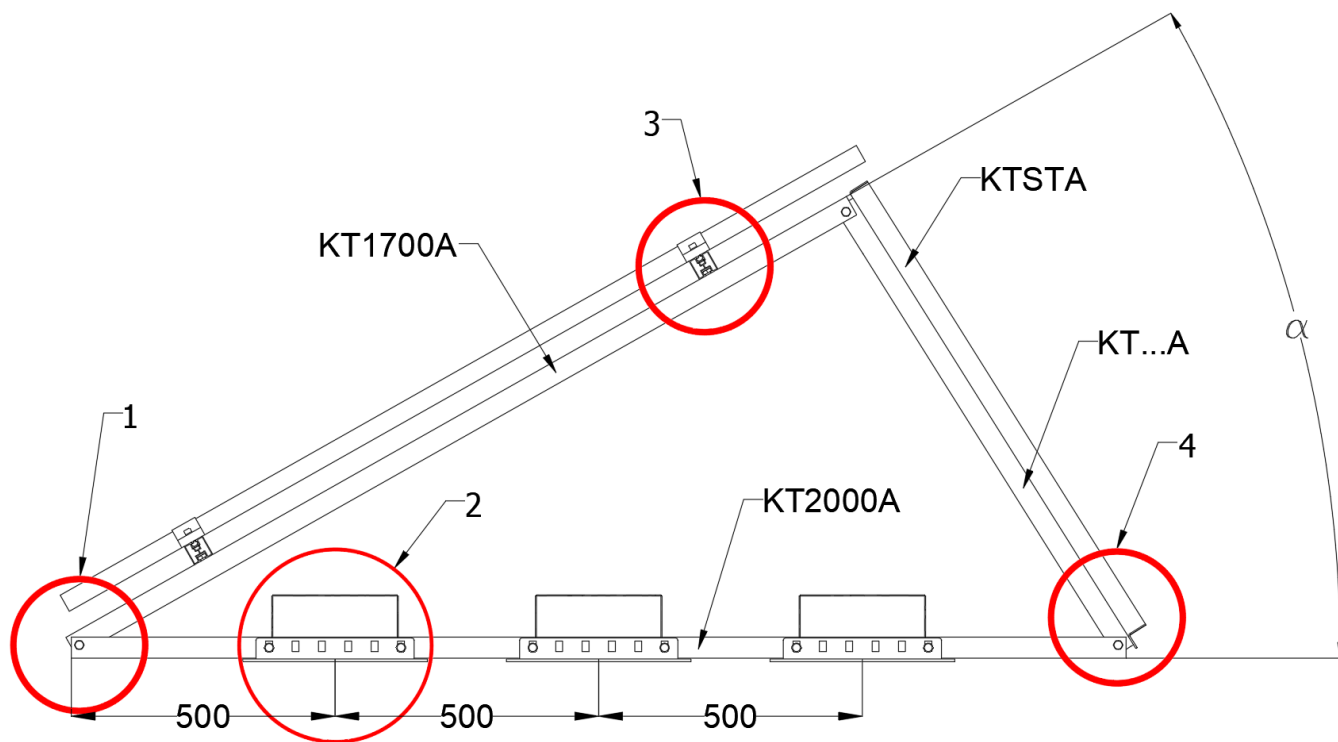
### 4. Assembly of DP-DTAVBN structure

Grounding washers of the PUP type should be placed at the mounting points of the PUF middle holders.

Where there are an even number of modules in a single row of construction, grounding washers are fitted every second pair of modules.

In the case of an odd number of modules, grounding washers must additionally be added under the extreme PUF holders to ensure that the last module is also grounded.

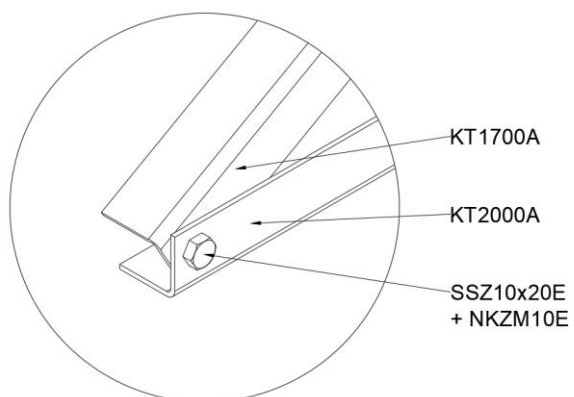




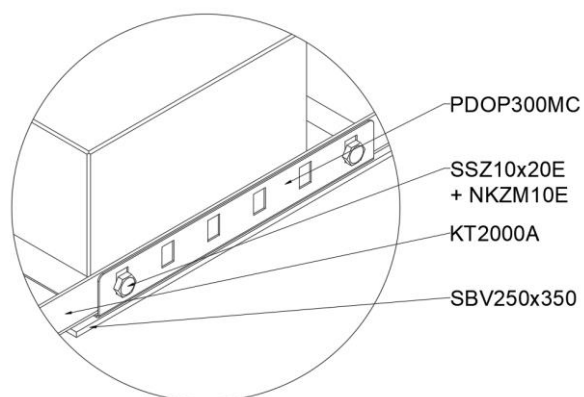
**Structures can be maximally used in a combination of zones 1W3Ś.**



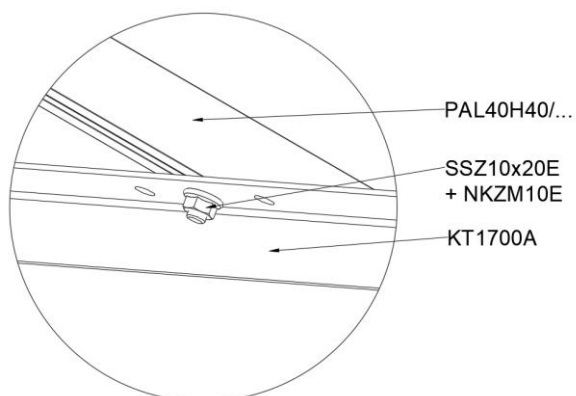
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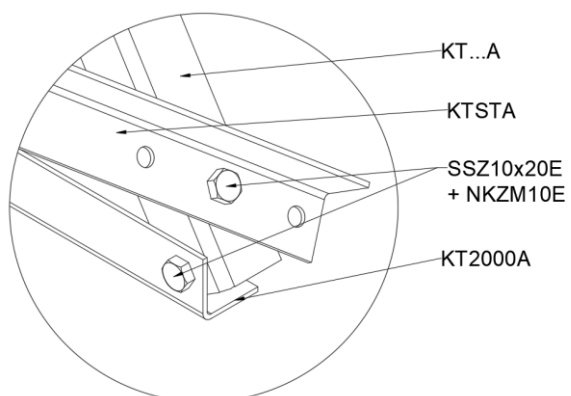
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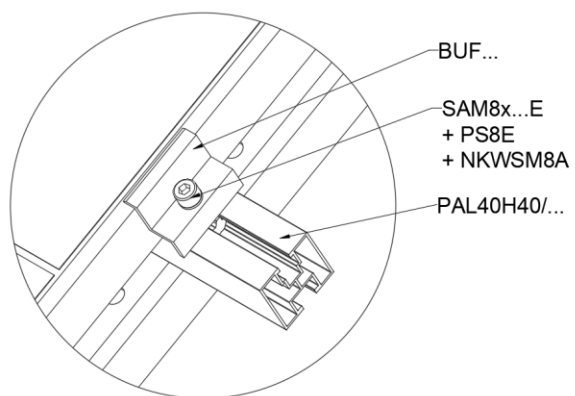
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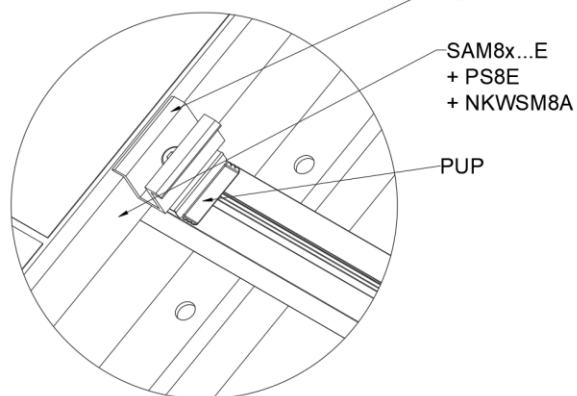
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