



IVENDO Solar
ul. Wojska Polskiego 2D
14-200 Iława

Instructions for installing the Floor system

KN-POZ1

These instructions contain information on the assembly of the floor structure for 24 modules arranged in a horizontal plane.

Materials:

- Stainless steel A2
- Aluminum 6060 T66
- Steel structure with Magnelis coating S320 ZM430

When using non-standard modules, it is recommended to stretch every 4th module. Stretch module.

It is essential that you familiarize yourself thoroughly with the instructions and use them in accordance with the intended purpose.

Information about the security

Before starting the assembly work, you should familiarize yourself with the following safety instructions, which will reduce the risk of an accident.



Attention! The setup and connection should be performed by qualified personnel with the appropriate authorizations. The general safety rules must also be observed.



Attention! During the work, it is necessary to observe the applicable national and European standards, especially the electrical installations. It is also necessary to follow the instructions of the other components, e.g. the inverter.



Attention! Danger of falling from heights. The rules for working at heights and the necessary safety equipment such as harnesses and safety ropes must be observed.



Attention! Danger of falling objects. Special care must be taken. Before starting work, the assembly area must be appropriately secured to avoid hazards.



Attention! Warning of electric current. Be especially careful when performing electrical work, especially when connecting modules and when setting up and connecting the inverter to the modules.

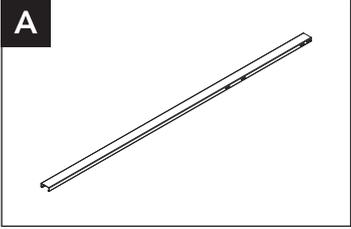
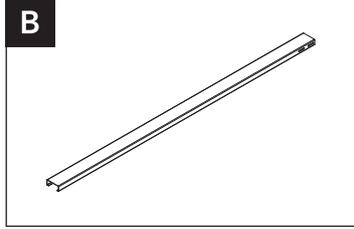
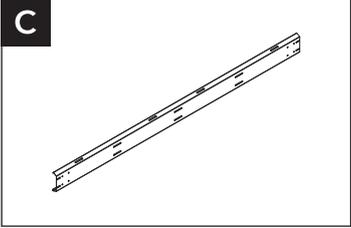
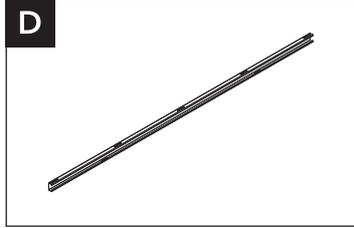
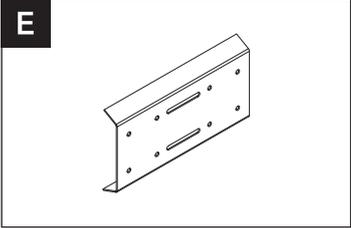
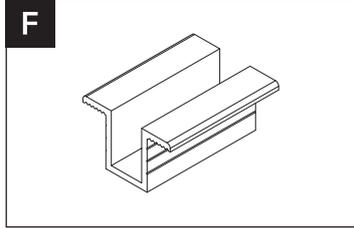
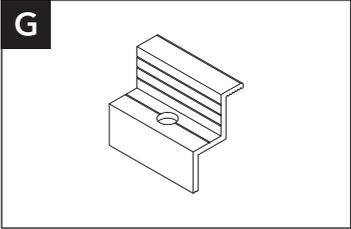
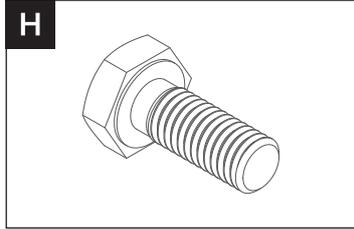
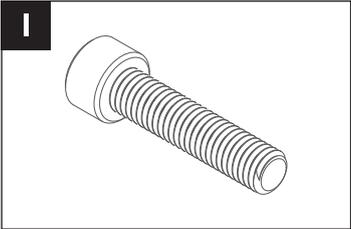
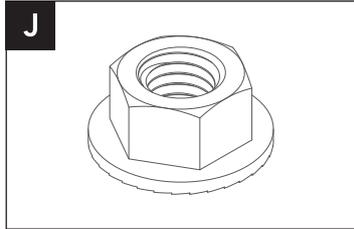
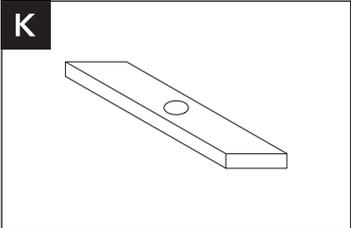
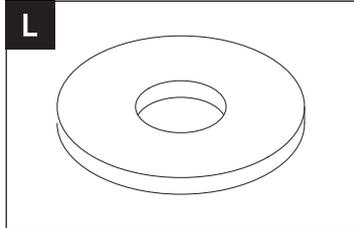


Attention! Warning about highly flammable materials. Photovoltaic modules, inverters and other electrical equipment should not be used near easily flammable materials.



Attention! The assembly work must not be carried out by persons under the influence of alcohol or other intoxicating substances.

Element overview

	<p>A</p> <p>Foot SMM 120x48x3 L3850</p> <hr/> <p>3 Piece</p> <p><i>Material: Steel with Magnelis coating</i></p>		<p>B</p> <p>Foot SMM 120x48x3 L2625</p> <hr/> <p>3 Piece</p> <p><i>Material: Steel with Magnelis coating</i></p>
	<p>C</p> <p>Plate SMM 180x50x2 L4950</p> <hr/> <p>4 Piece</p> <p><i>Material: Steel with Magnelis coating</i></p>		<p>D</p> <p>Rafter SMM 100x48x1,5 L4200</p> <hr/> <p>12 Piece</p> <p><i>Material: Steel with Magnelis coating</i></p>
	<p>E</p> <p>Connecting plate 180x50x3</p> <hr/> <p>2 Piece</p> <p><i>Material: Steel with Magnelis coating</i></p>		<p>F</p> <p>Medium clamp wrench 50x24</p> <hr/> <p>36 Piece</p> <p><i>Material: Aluminium</i></p>
	<p>G</p> <p>End clamp</p> <hr/> <p>24 Piece</p> <p><i>Material: Aluminium</i></p>		<p>H</p> <p>Hexagon head screw M10</p> <hr/> <p>52 Piece</p> <p><i>Material: Stainless steel</i></p>
	<p>I</p> <p>Hexagon socket-screw M8</p> <hr/> <p>60 Piece</p> <p><i>Material: Stainless steel</i></p>		<p>J</p> <p>Flange nut M10</p> <hr/> <p>52 Piece</p> <p><i>Material: Stainless steel</i></p>
	<p>K</p> <p>Extended Part nut M8</p> <hr/> <p>60 Piece</p> <p><i>Material: Stainless steel</i></p>		<p>L</p> <p>Enlarged Washer M10</p> <hr/> <p>104 Piece</p> <p><i>Material: Stainless steel</i></p>

Assembly instruction



Necessary tools:

- Allen wrench (size 5)
- Ring wrenches (size 13, 15 and 17 mm)
- Cordless screwdriver with Torque adjustment
- Cross-recess bits / attachments for the Cordless screwdriver (PZ)



Staffing for the assembly:

- At least 2 persons



Tightening torques:

- Tighten middle and end clamps with a tightening torque of 8.5 Nm
- Tighten M8 bolts and nuts with a tightening torque of 18 Nm.
- Tighten M10 bolts and nuts with a tightening torque of 36 Nm



Assembly time:

- About 2 hours

Control and maintenance

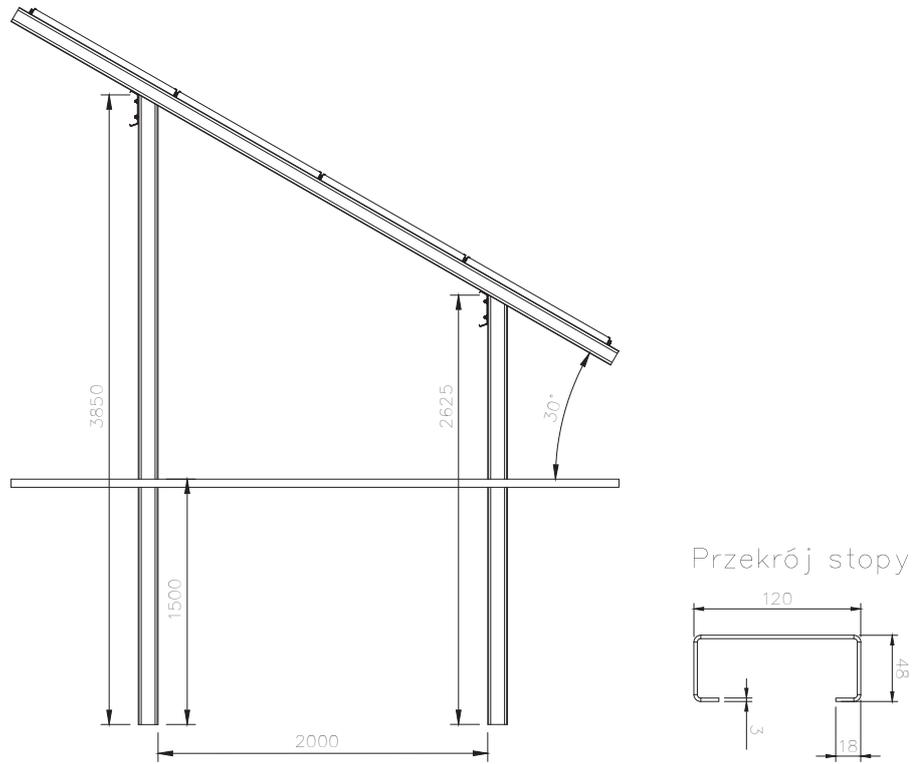
During the installation work, it must be ensured that the photovoltaic system is used according to its intended purpose. All changes in the use of construction elements, including connection with elements that do not come from IVENDO Solar, the modification of the construction by welding, shortening, lengthening, drilling, etc., and increasing the load on the systems will result in the loss of warranty claims and may have a direct impact on the life of the systems and their safe use.

The technical inspection and maintenance of the mounting system should be carried out at least once every six months, special attention should be paid to:

- Bolted connections,
- The condition and connections of the electrical cables are checked,
- the visual condition of the PV modules (contamination, mechanical damage) is checked.

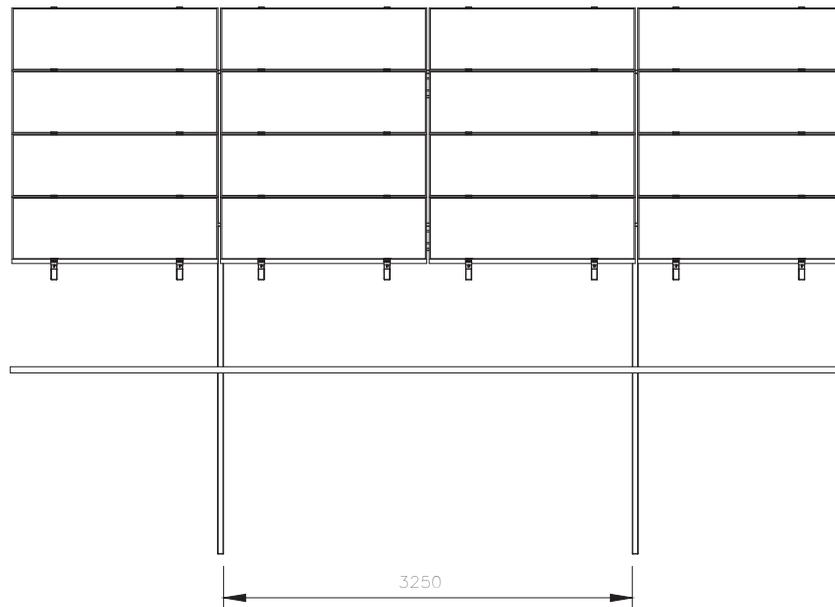
Assembly of the set

1



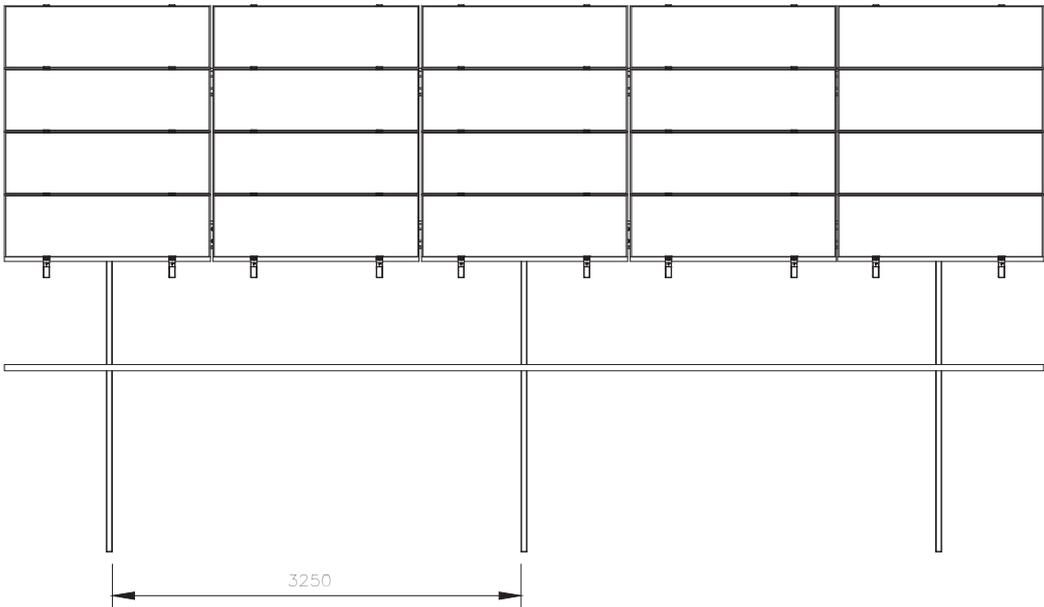
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The distribution of the feet of the floor structure for 16 modules

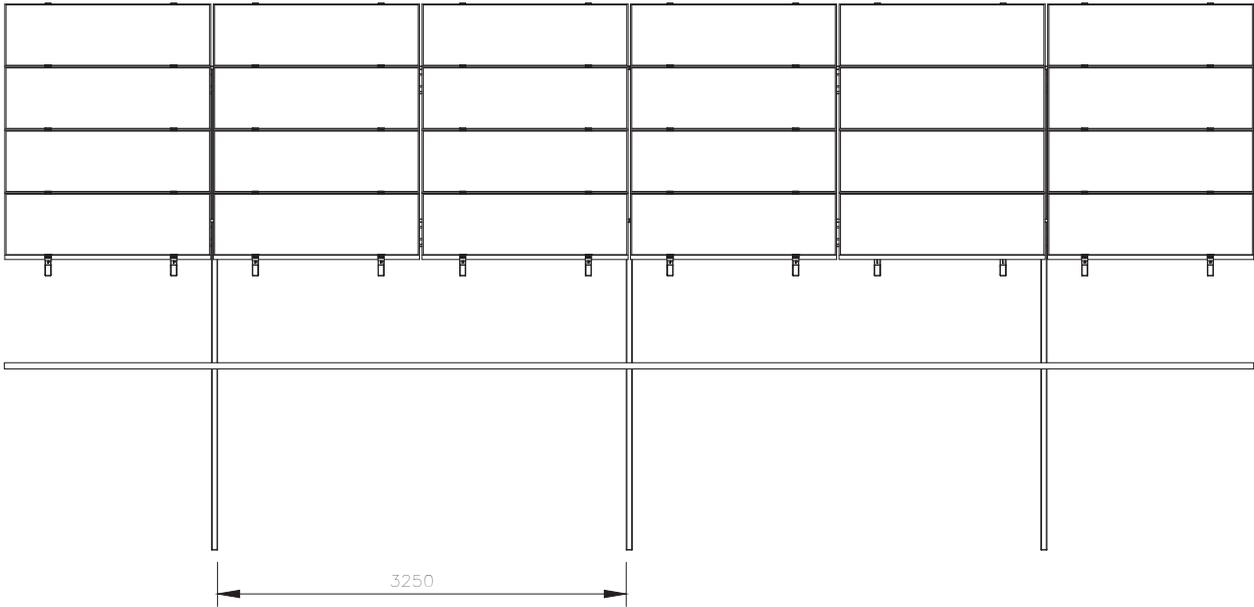


Assembly of the set

3 The distribution of the feet of the floor structure for 20 modules

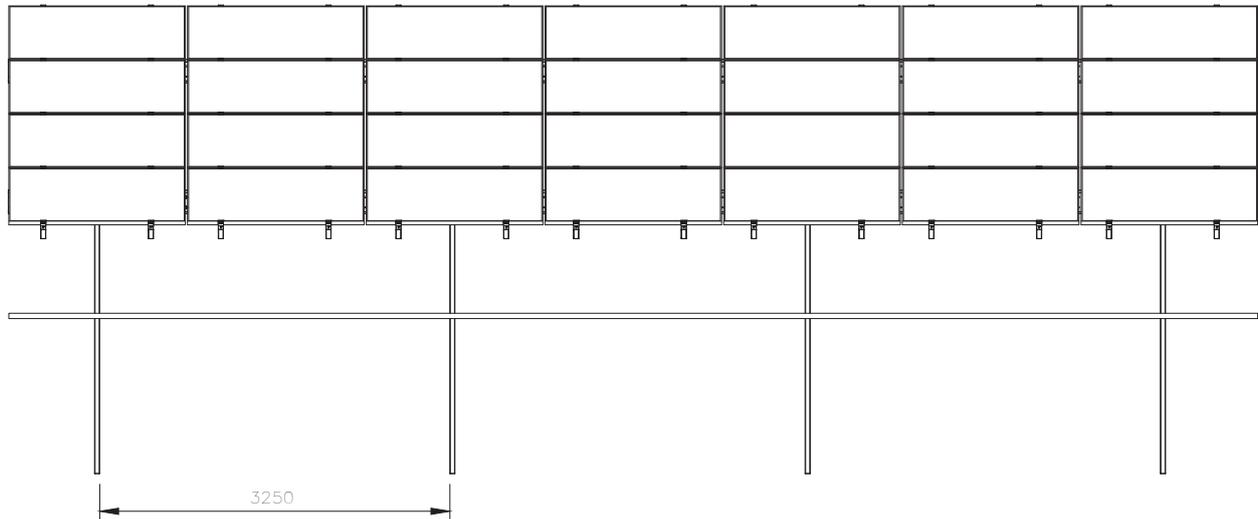


4 The distribution of the feet of the floor structure for 24 modules

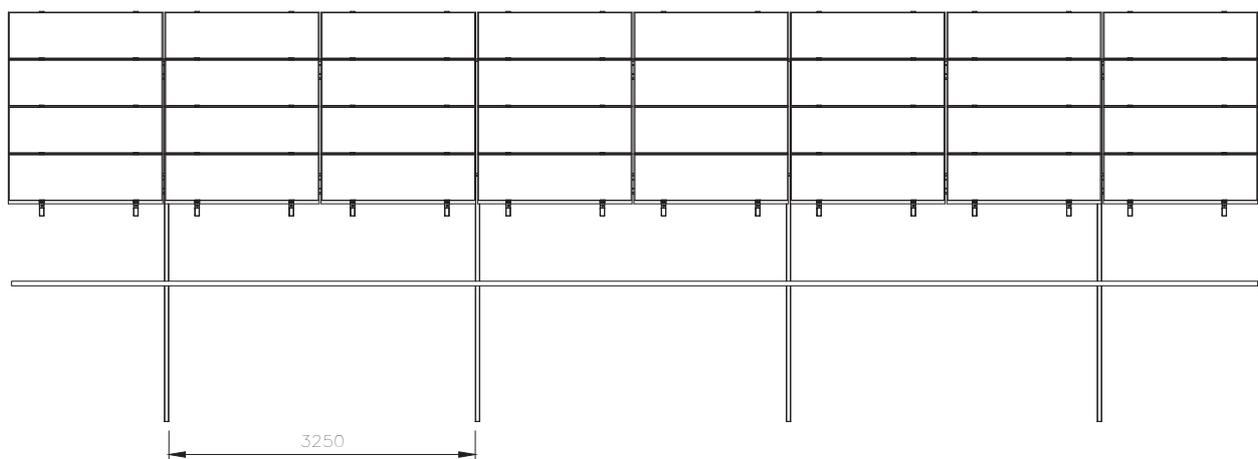


Assembly of the set

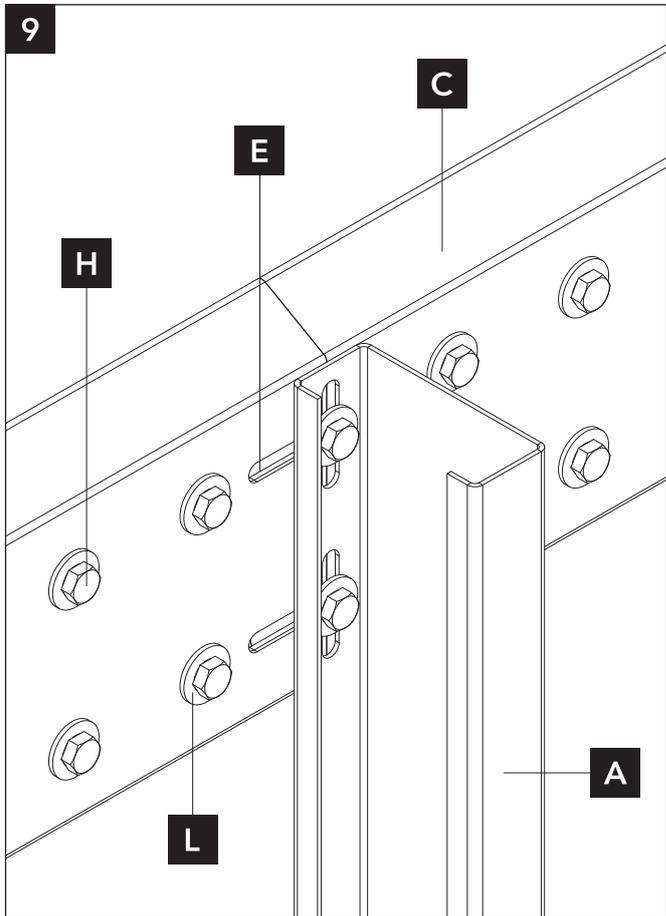
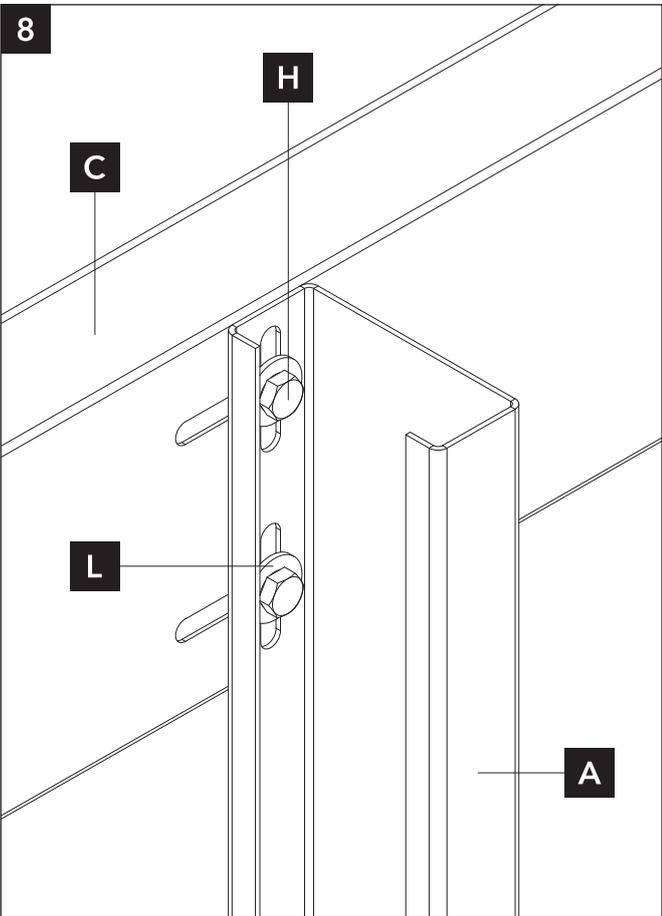
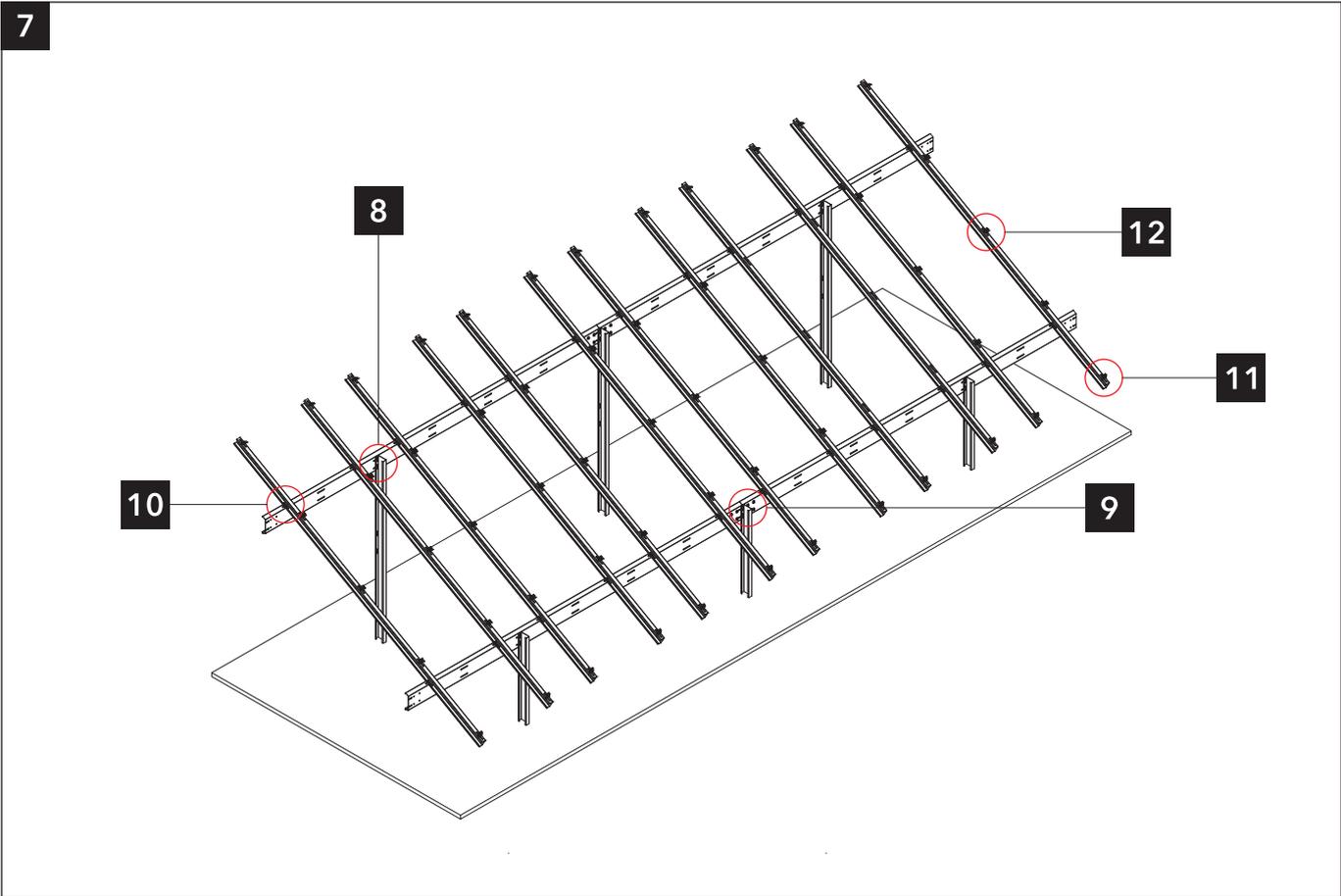
- 5 The distribution of the feet of the floor structure for 28 modules



- 6 The distribution of the feet of the floor structure for 32 modules



Assembly of the set



Assembly of the set

