



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

## Instructions for the installation of the flooring system

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# KC-CARPORT3

This manual contains information for assembling a flooring structure for 20 modules, arranged horizontally.

Materials:

Stainless steel A2

Aluminum 6060 T66

Structural steel with Magnelis coating S320 ZM430.



**It is essential that you familiarize yourself with the instructions and use them according to the intended purpose. Information regarding safety.**

## Information regarding safety

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Before starting the assembly work, you should familiarize yourself with the following safety instructions that reduce the risk of accidents.



**Attention!** Installation and connection should be performed by qualified personnel with appropriate permissions. General health and safety rules must also be followed.



**Attention!** During the work, the applicable national and European standards, in particular for electrical installations, must be observed. Follow the instructions of the other components, e.g. inverter.



**Attention!** Danger of falling from a height. must be observed regulations regarding work at height and have the necessary safety equipment - harness, lifelines, etc.



**Attention!** Danger Before falling objects. Keep special care. Before starting work, the area must be properly secured assembly In purpose avoid threats.



**Attention!** Electrical voltage warning. Particular care should be taken during electrical work - connecting the modules with each other and when assembling and connecting the inverter to the modules.



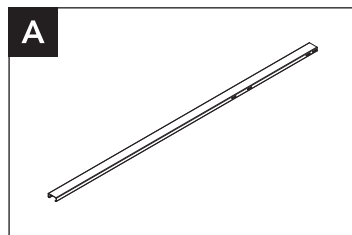
**Attention!** Flammable material warning. Photovoltaic modules, inverters and other electrical devices should not be used near flammable materials.



**Attention!** Assembly work must not be performed by persons under the influence of alcohol or other intoxicants.

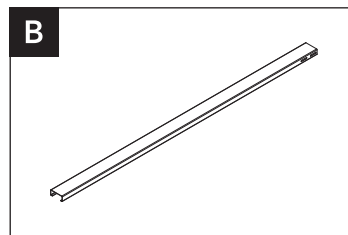
# List of elements

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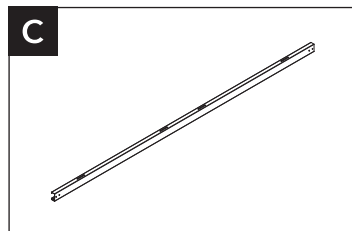
**A** SMM foot  
100x50x2.5 L3250

Material: steel With  
magnelis coating



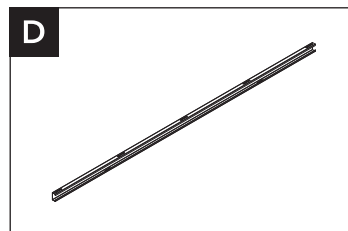
**B** SMM foot  
100x50x2.5 L4450

Material: steel With  
magnelis coating



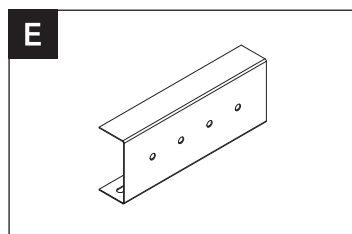
**C** Purlin SMM  
120x50x1.5

Material: steel With  
magnelis coating



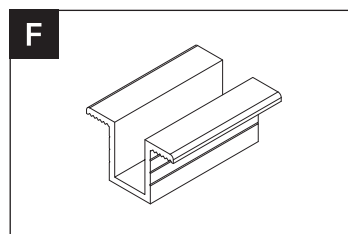
**D** Rafter SMM  
100x50x2.5

Material: steel With  
magnelis coating



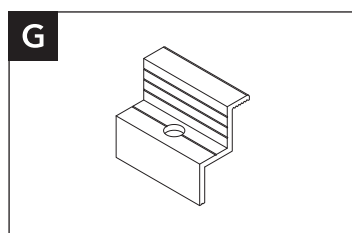
**E** Connector purlin  
120x50x2

Material: steel With  
magnelis coating



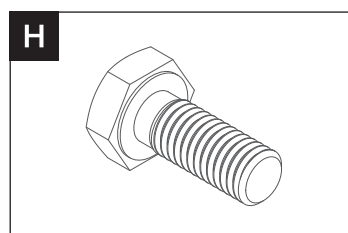
**F** Clem median  
50x24

Material: Aluminum



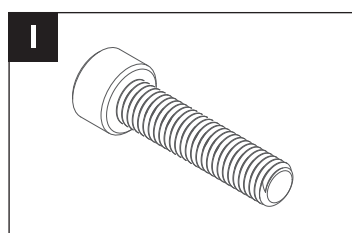
**G** Clem final

Material: Aluminum



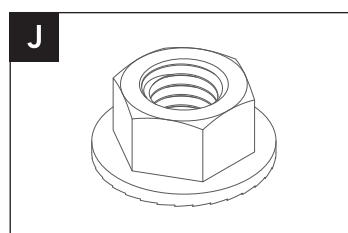
**H** Screw hexagonal  
M10

Material: stainless steel



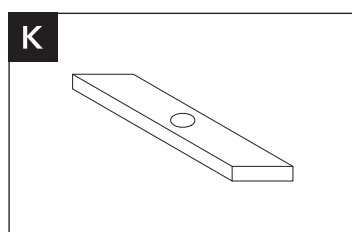
**I** Screw Allen M8

Material: stainless steel



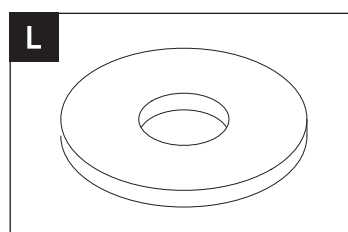
**J** Flange nut M10

Material: stainless steel



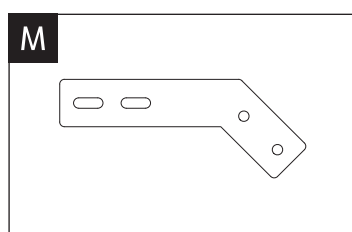
**K** Nut long T-shaped  
M8

Material: stainless steel



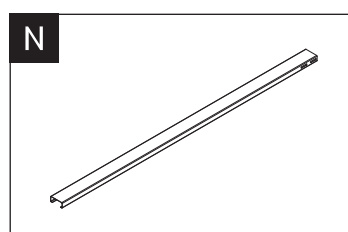
**L** Enlarged washer M10

Material: stainless steel



**M** Brace fixing

Material: Magnelis



**N** Concentration L1700

Material: Magnelis

## Assembly instructions/tips

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### Necessary tools:

- Key allen - size 5
- Keys flat mesh - size 13 15 and 17mm
- Screwdriver With regulation turnover
- endings / / bits screwdriver cross PZ

### Moment strength tightening:

- Clamps middle and final tighten to 8.5 Nm
- Tighten the M8 screws and nuts with a torque of 18 Nm
- Tighten M10 bolts and nuts with a torque of 36 Nm

### Quantity people down assembly:

- Minimum 2 persons

### Time assembly:

- About 2 hours

## Inspection and maintenance

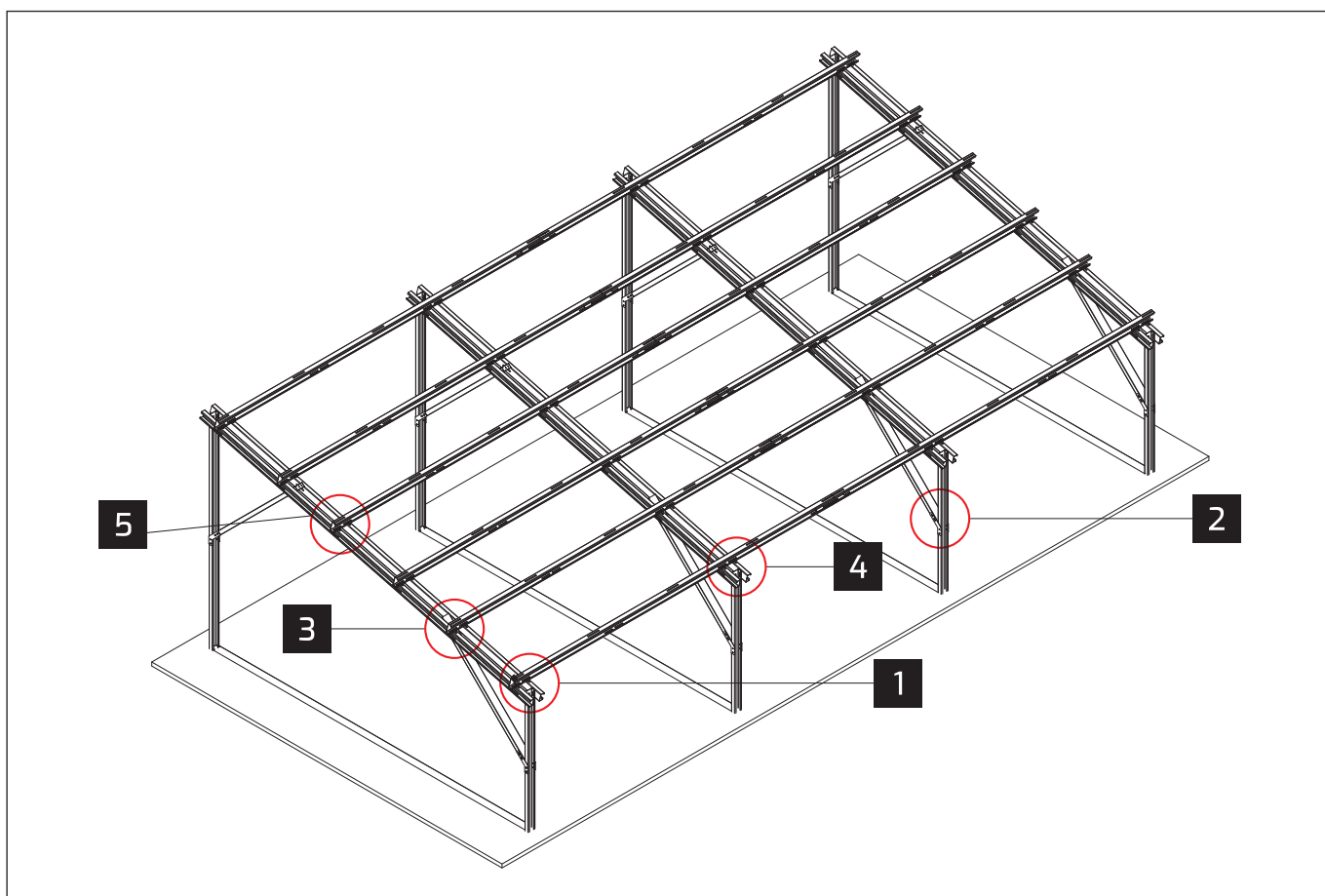
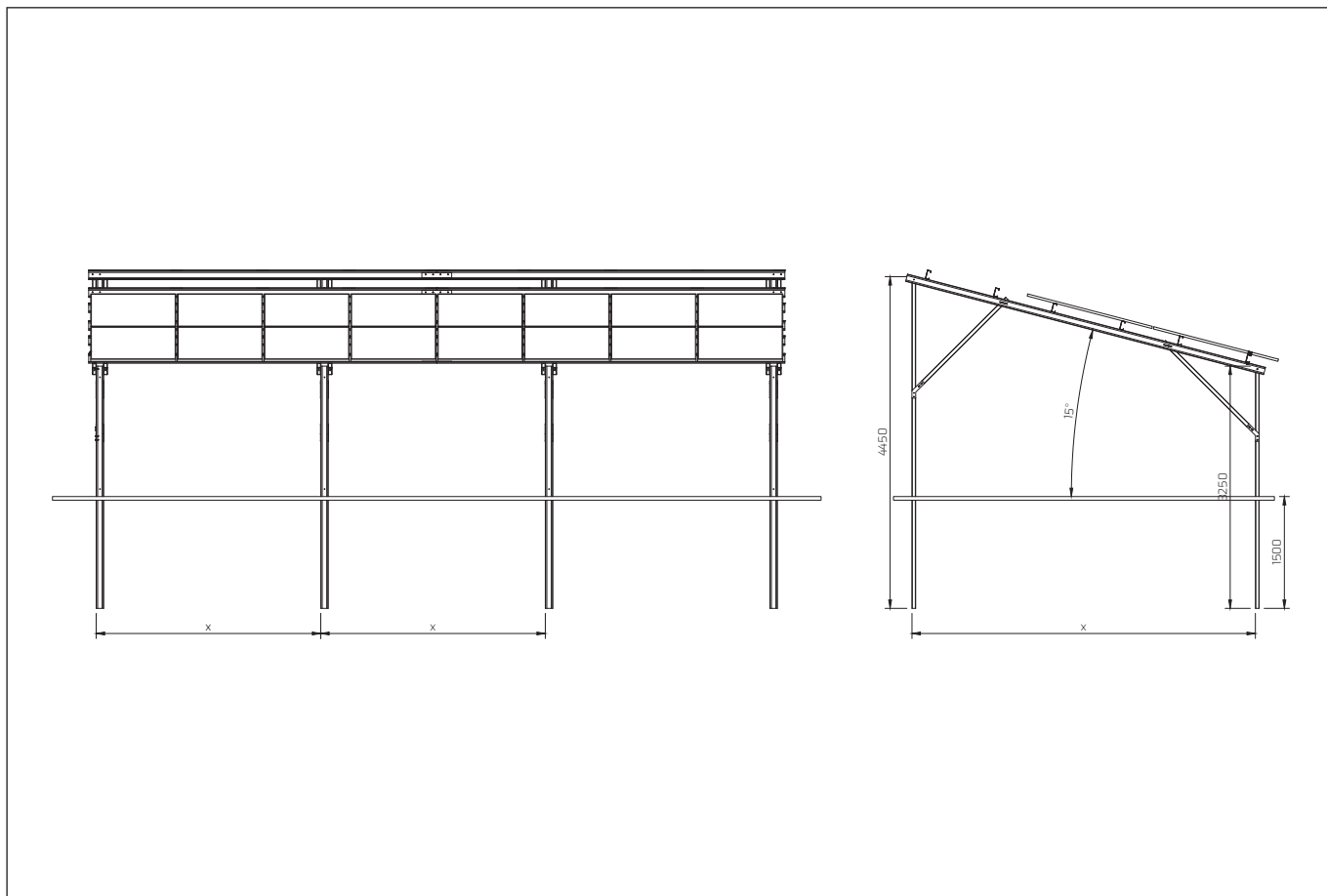
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During installation work, it must be ensured that the PV system is used in accordance with its intended use. Any changes in the use of structural elements, including connecting with elements not supplied by IVENDO Solar, modifying the structure by welding, shortening, lengthening, reaming, etc., increasing the load on the systems will void the warranty and may have a direct impact on the life of the systems and their safe use.

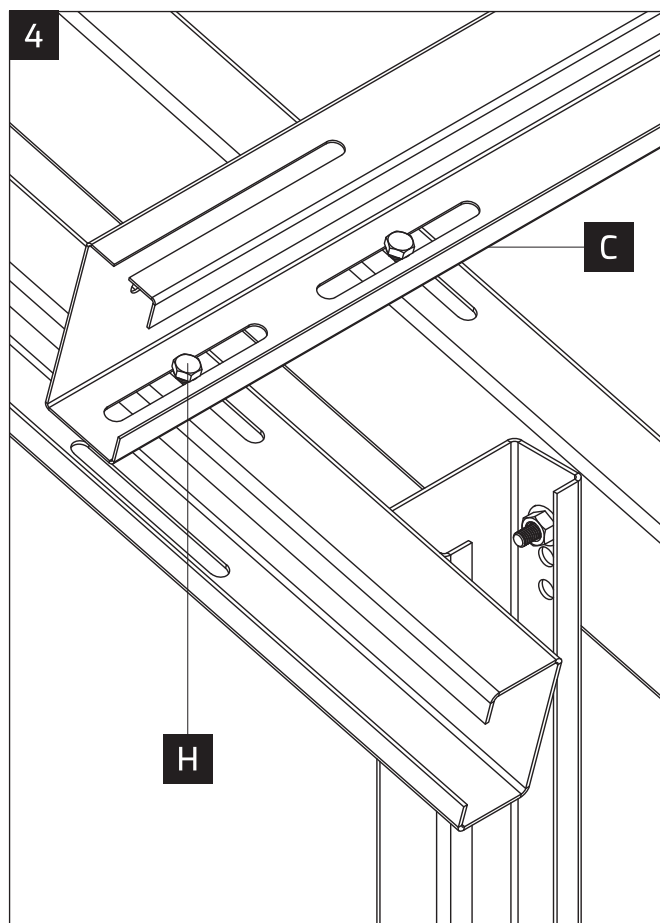
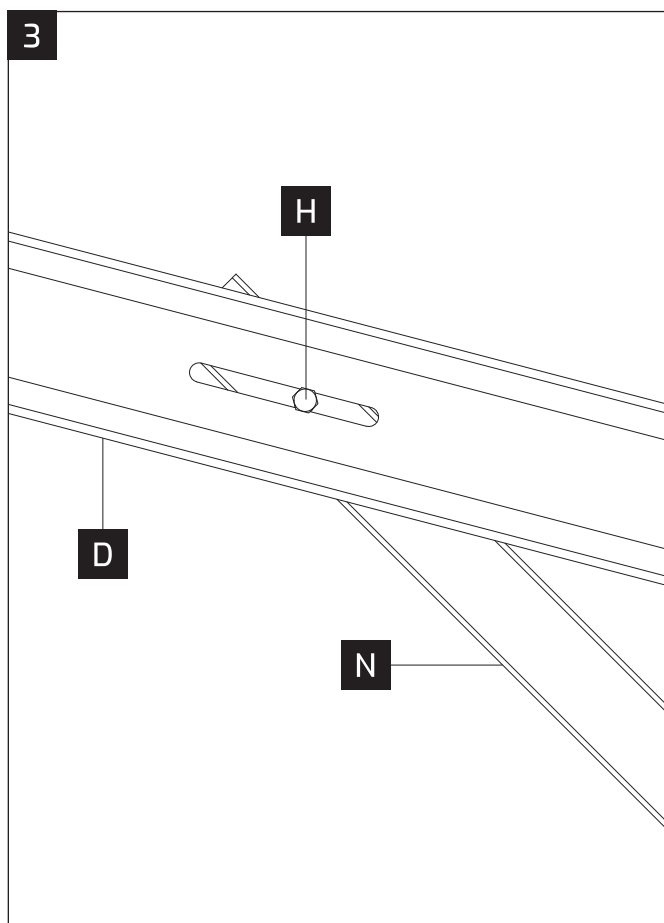
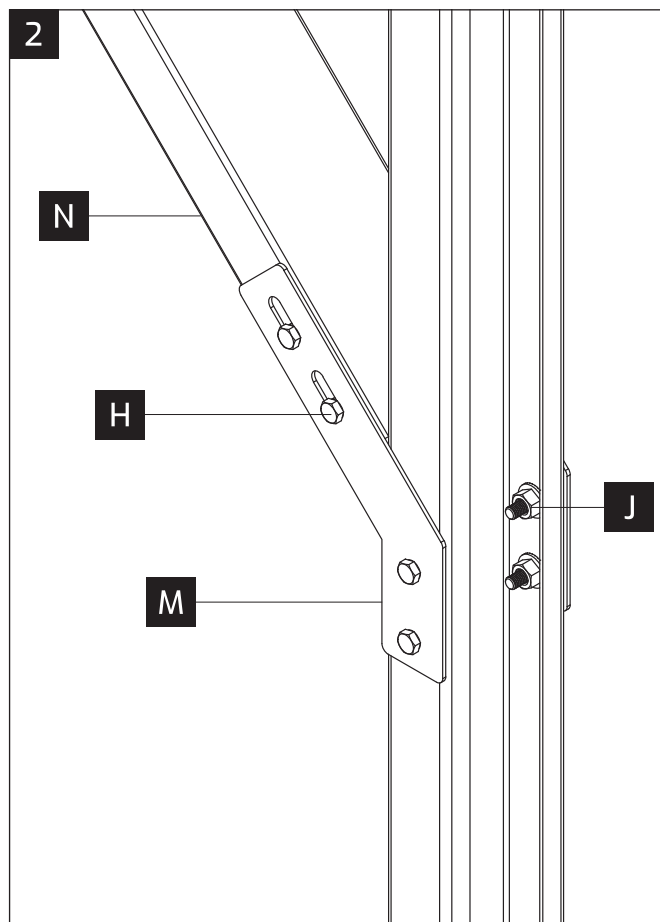
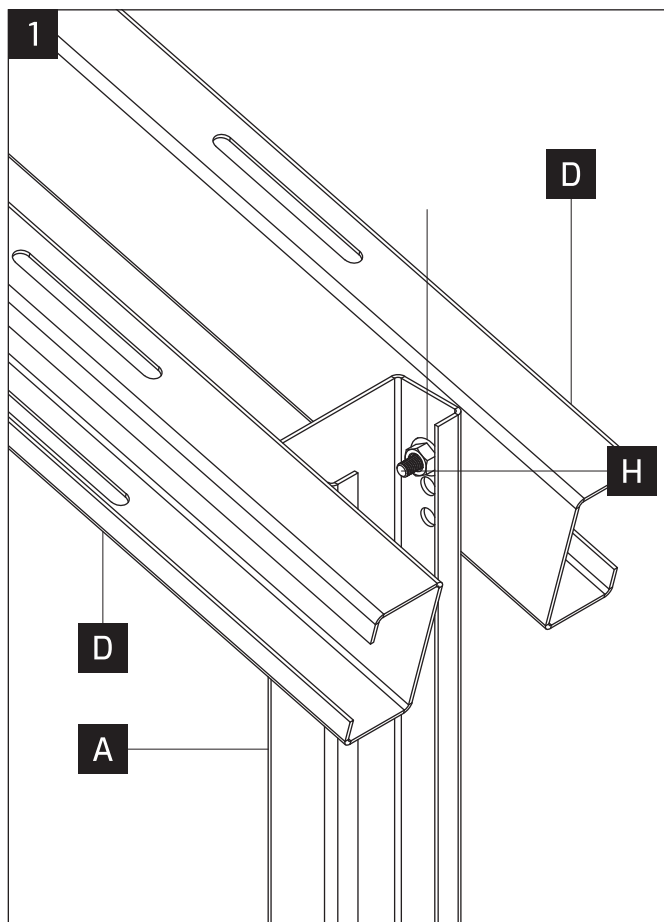
Systematic inspection of the technical condition and maintenance of the structure should be carried out assembly What least once on half year In in particular return attention on:

- connections screw,
- verification state and connections wires electrical,
- visual state modules PV (dirt, mechanical damage).

# Assembly of the set

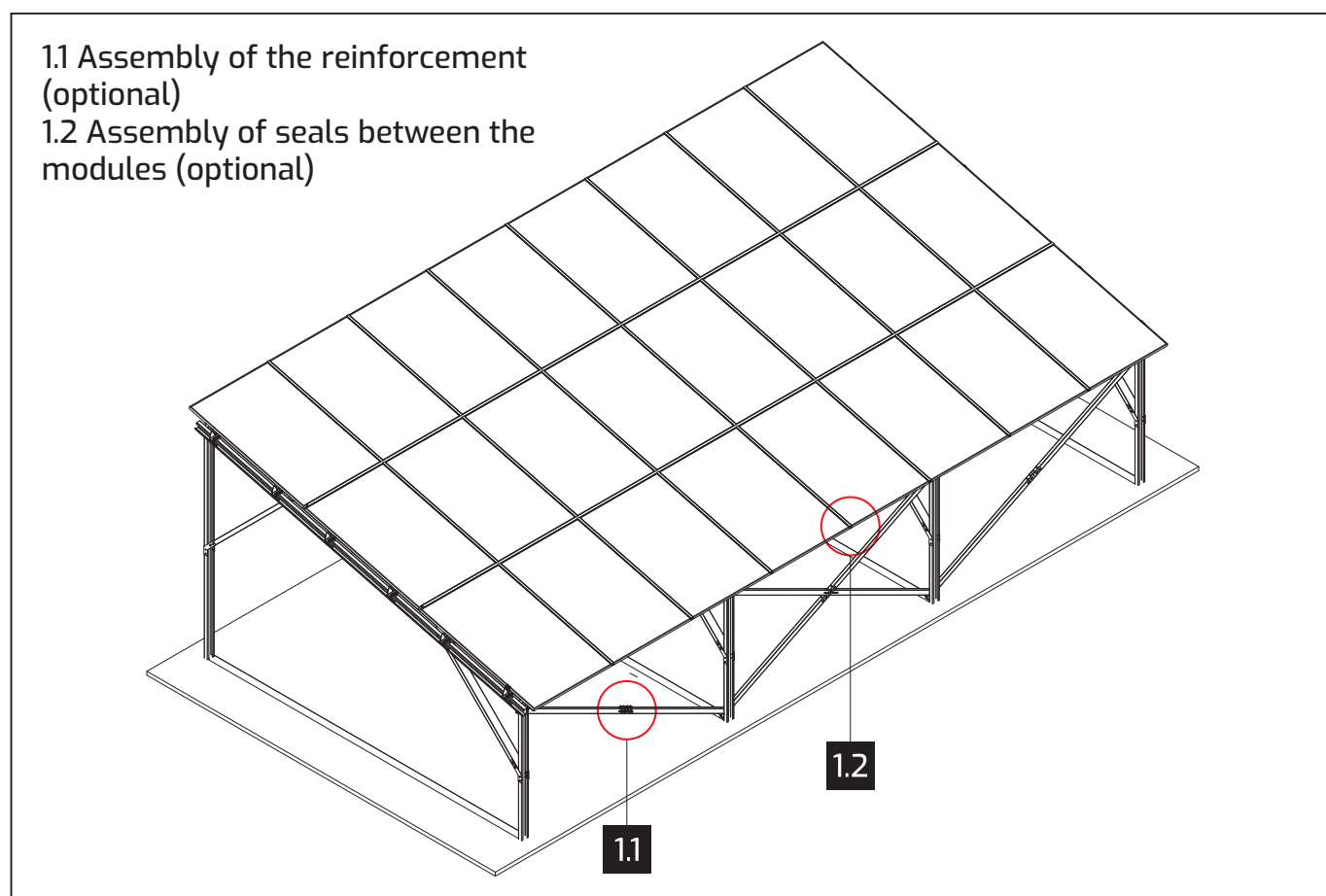
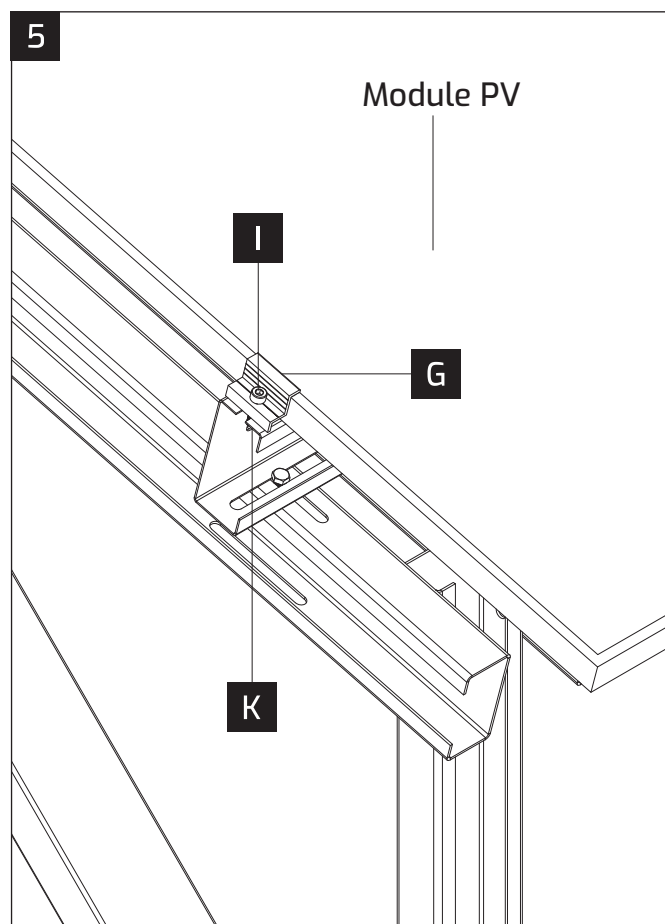


# Assembly of the set

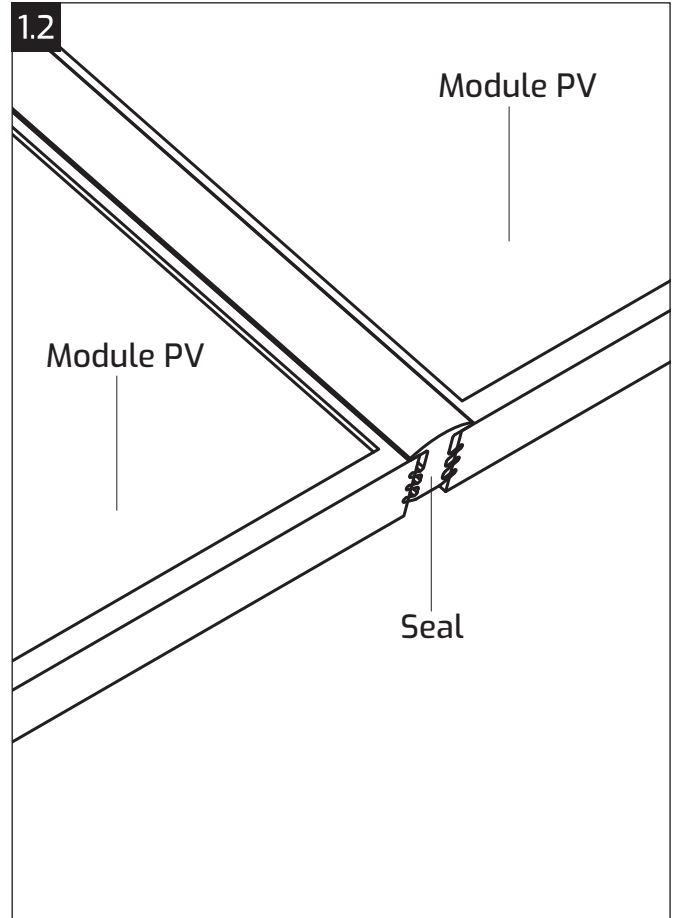
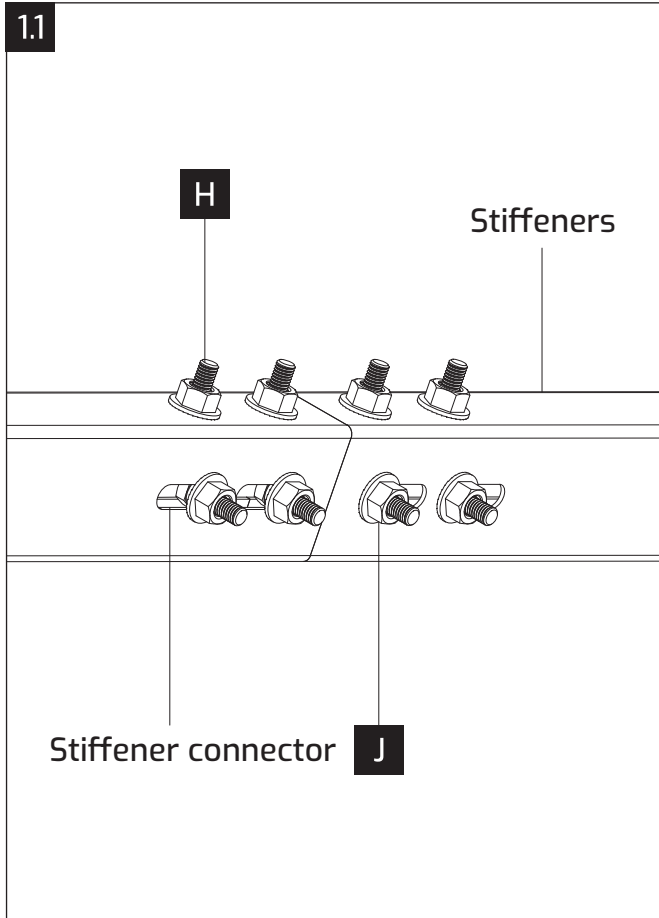


## Assembly of the set

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# Assembly of the set





# Legal clause

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This one instruction defines basic standards assembly and exploitation system support for photovoltaic modules. The manual does not constitute and does not replace the installation project photovoltaic. Appropriate selection system fasteners modules photovoltaic and elements entering In his composition belongs down people, which directly they make montage \_\_ this system. Activities these they should to be carried out By professional installers \_\_ With appropriate qualifications and experience. Down installers belongs the right choice systems assembly and way their connecting With building or ground In depending on conditions locations and needs customer. IVENDO solar, as producer fastening systems , NO bear responsibility behind proper execution and installation construction. should be made systematic reviews state technical installation at least once to year, carried out By persons about appropriate qualifications. IN case appearing \_ \_ myself anomalies weather (strong gusts wind above 79 km/h, unprecedented amount of precipitation snow), overview state technical installation should take place immediately after them resignation. Constructions belongs use according With her destiny and environmental protection requirements. It is required that the structure is kept in proper technical condition and NO slow allow down significant deterioration myself her properties of utility \_ and efficiency technical. making changes and modification construction fastening systems , which manufacturer Is IVENDO solar, In this among others their connection, welding, shortening, lengthening, reduction quantity elements given In instructions, increasing the spacing supports construction, increase loads systems or exploitation system - speak inconsistently With destiny cause immediate loss permissions guarantee \_\_ and they can result shortened vitality systems and limitation their safe use .