

TYPE OF SYSTEMS

MODULE ARRANG

NUMBER OF ROWS

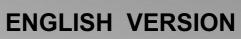
CONSTRUCTION A



Factory Production Control EN 1090-1

www.tuv.com ID 9000016644





INSTALLATION INSTRUCTIONS

TECHNICAL SPECIFICATIONS

S:	DRIVING INTO THE GROUND
GEMENT:	VERTICAL
/S:	2
ANGLE:	27°



HEALTH AND SAFETY INSTRUCTIONS FOR PERSONS INSTALLING PV SYSTEMS

A person installing photovoltaic PV systems performs a profession with an increased level of risk. This is due to constant contact with electrical devices under voltage, as well as threats caused by working at heights and related to the movement of loads of various sizes and weights.

In accordance with the Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general occupational health and safety regulations (consolidated text: Journal of Laws of 2003, No. 169, item 1650, as amended), when performing work at heights (is is work performed on a surface at a height of at least 1.0 meter above the floor or ground level), other effective means of protecting employees against falling from a height should be used.

Before starting work related to the installation of PV systems, the installer should be equipped with individual protective equipment in the form of:

- personal fall protection equipment consisting of a harness and a lifeline with a shock absorber;
- a ladder or scaffolding, possibly a lift;
- wear work clothes, footwear and protective gloves;
- remove all unnecessary items from the workplace;
- prepare equipment and check its functionality (portable ladders, materials and power tools needed for work, etc.);
- make sure that starting work will not pose a threat to people staying near the workplace or in its immediate vicinity;
- if no threats are found at a given workstation, you can start performing tasks;
- before assembling the structure, make sure that there are no collisions in the ground at the installation site (e.g.: cables in the ground)

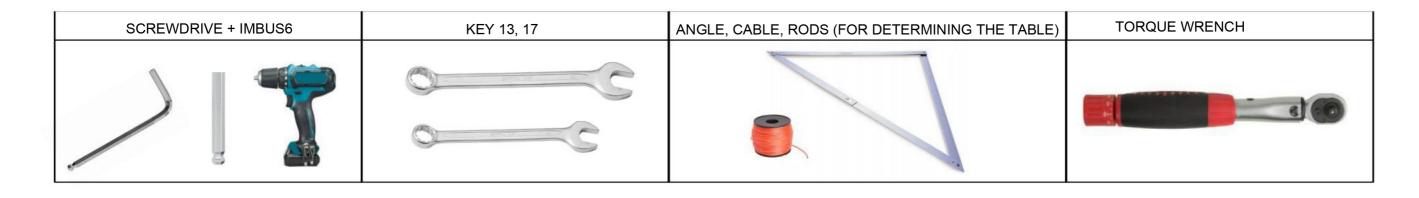
Additional notes

If you are in direct danger as a result of non-compliance with occupational health and safety regulations and rules by people staying near the workplace or in its immediate environment, the person installing photovoltaic systems has the right to refrain from performing work.



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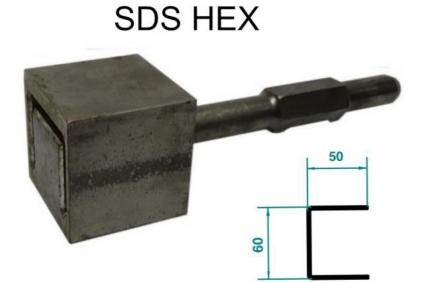
ESSENTIAL TOOLS



TOOLS ENABLING THE CORRECT INSTALLATION OF DRIVEN-IN STRUCTURES

For proper installation, we recommend purchasing a special matrix for a demolition hammer with an SDS HEX quick connector, available from the supplier.

DEMOLITION HAMMER

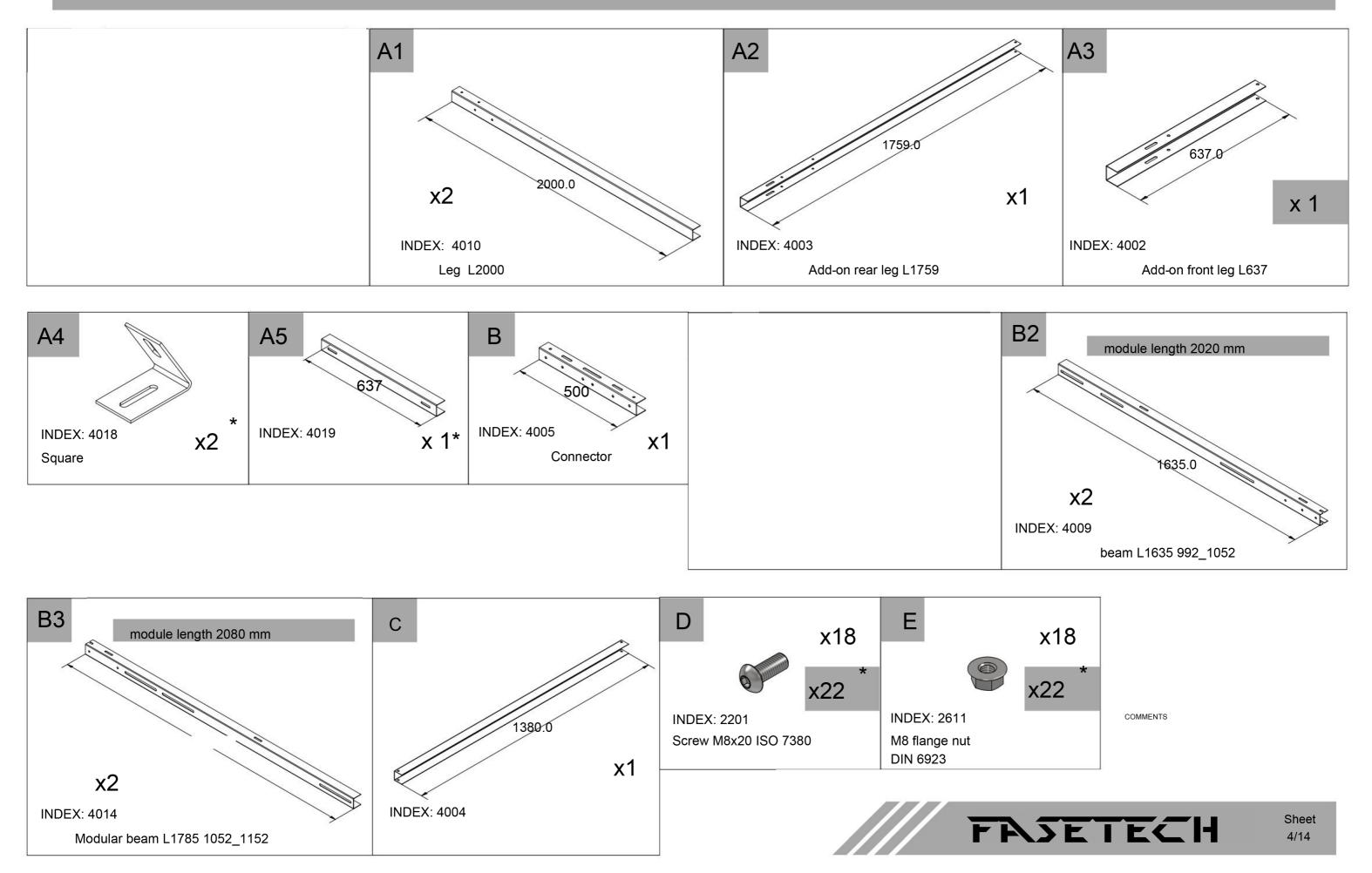




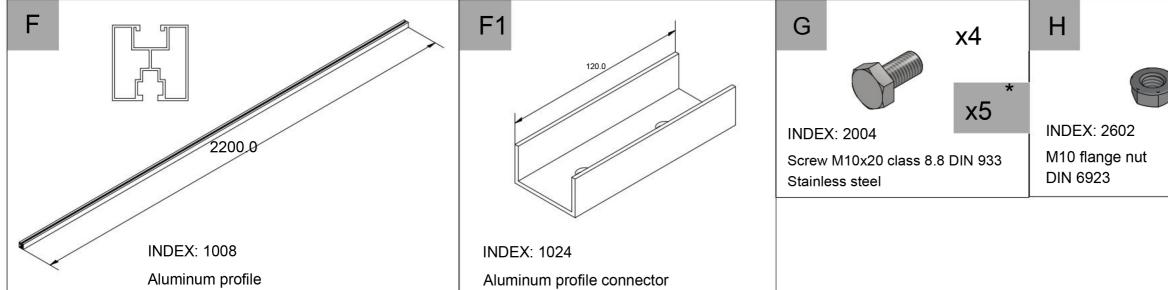


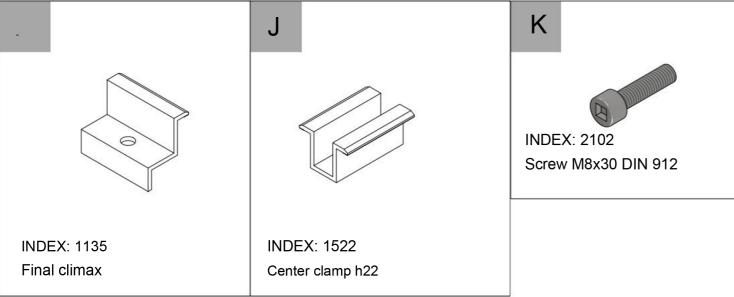
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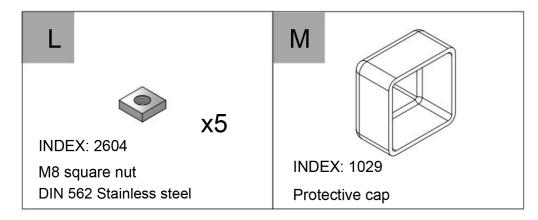
LIST OF ELEMENTS FOR ONE SUPPORT COLUMN



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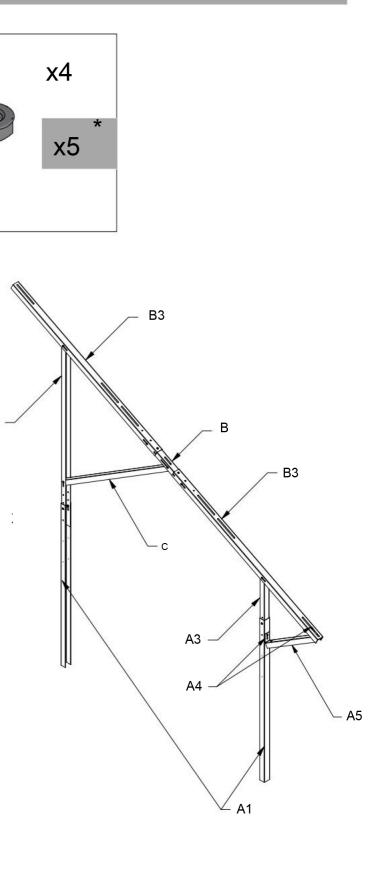






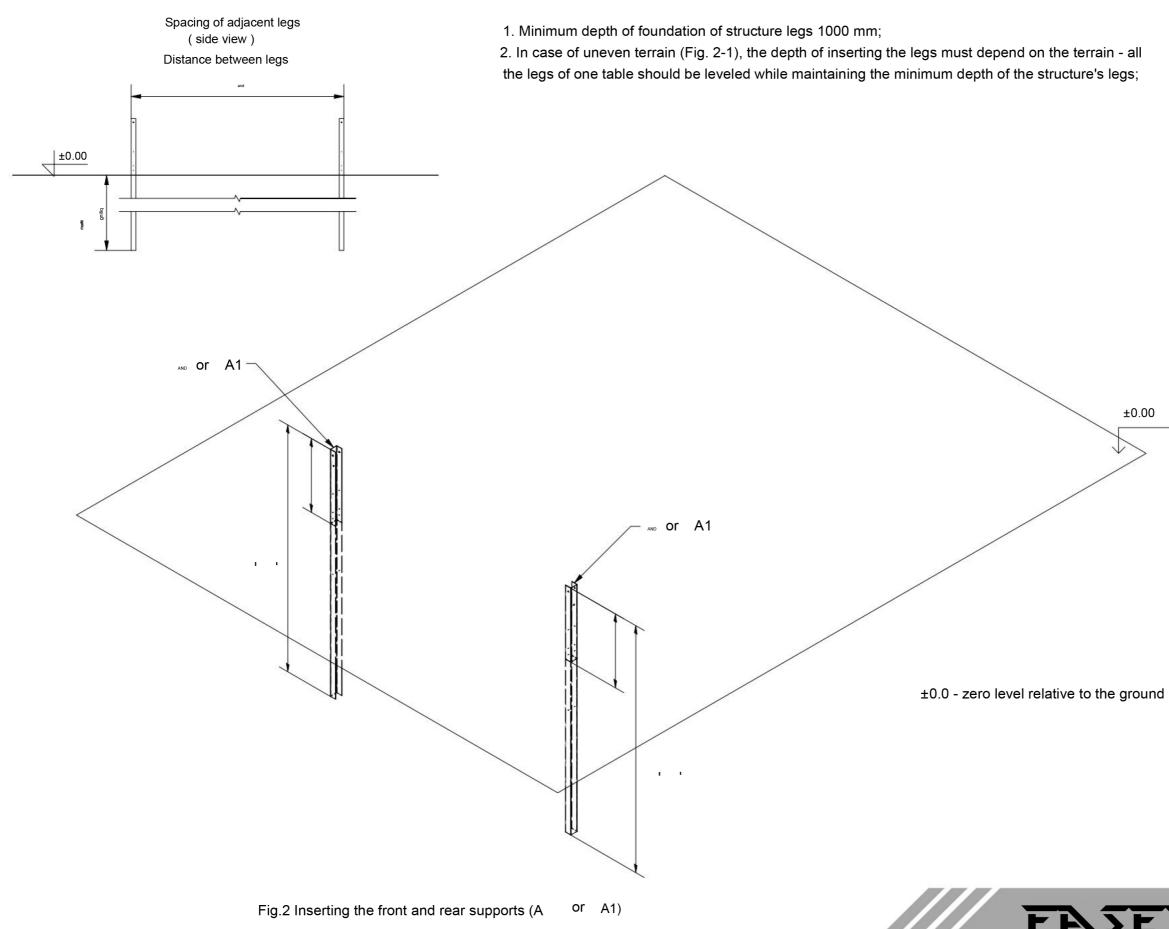


A2



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INSTALLATION





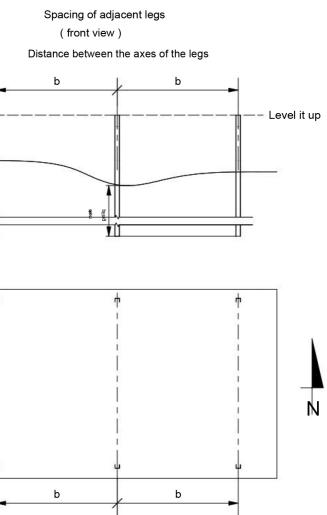


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1. Check whether the level of leg kill required by the design allows for

Spacing of adjacent legs (front view) achieving the required angle of inclination of the modules and whether the lower edge of the (front view) Distance between the axes of the legs lower module will be located above the ground level by approximately 550 mm. If the required Distance between the axes of the legs parameters are not achieved, corrections should be made, e.g. by driving the front leg deeper if b b b the rear leg is located in a lower area in relation to it and has been driven to the required depth. This operation should be performed before starting the series of hammering in entire rows of O 0 +±0.00 legs. However, this operation must be repeated each time the terrain changes. The rule should +±0.00 be to position the structure in a way that ensures the minimum depth of driving in the legs required by the design or model of the structure. Therefore, it is better to drive the elements deeper than too shallow. The entire process of driving in the legs should be planned so that at the end of the assembly it does not turn out that the structure does not meet the design assumptions. 2. The arrangement of the legs depends on the length and width of the modules. Modules they cannot protrude beyond the outline of the embedded legs by more than 350 mm ±0.00 ND Or A1 Par 2250 mm Spacing The "b" parameter depends on the width of the modules Parameter "d" see Fig.3 (Sheet 9) ±0.0 - zero level relative to the ground or A1)) Fig.2-1 Leg arrangement diagram (6 x A (



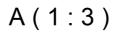


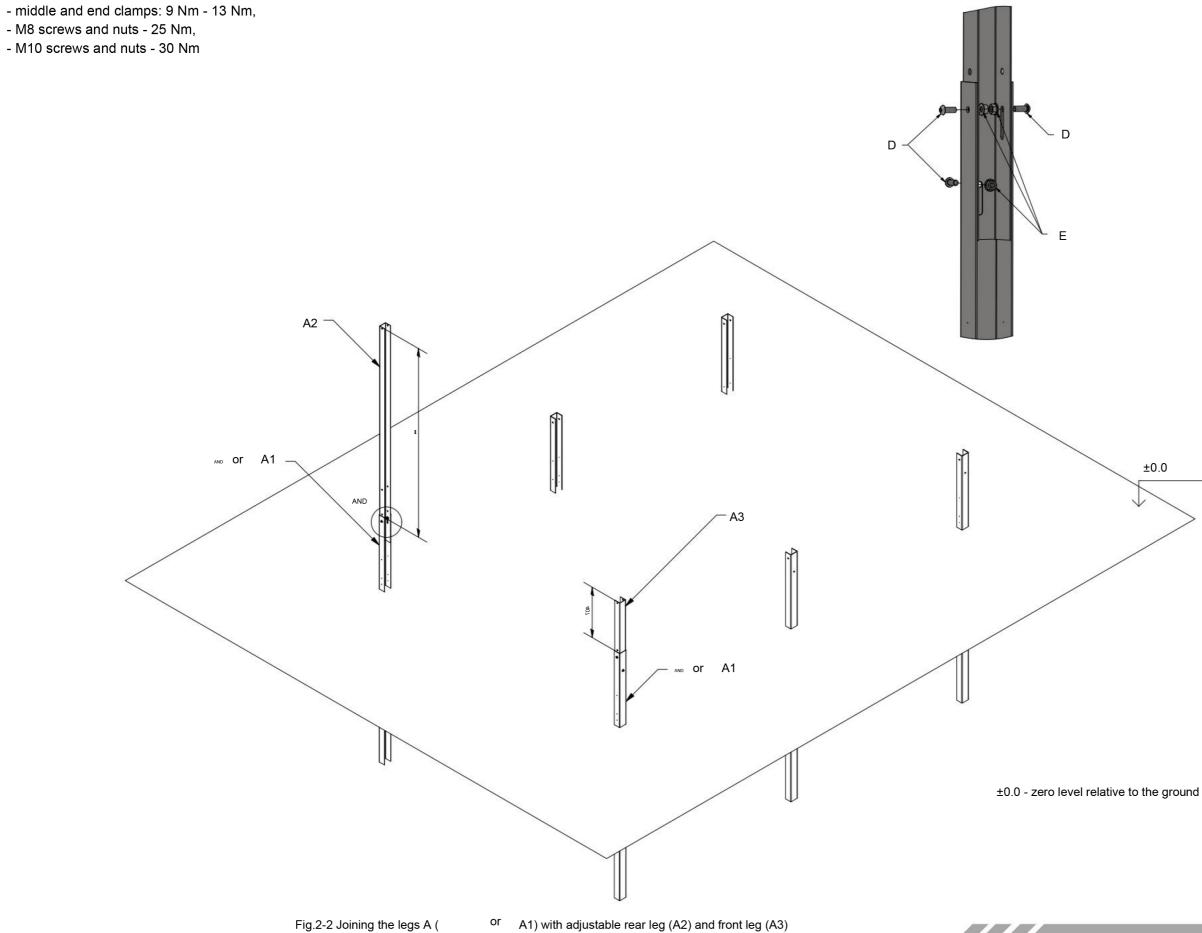
rameter		Spacing, mm
	and	2250
	b*	15001650
	с	550
	d**	0; 210

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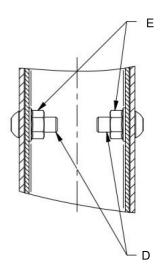
COMMENTS

Tightening fasteners using wrenches or impact screwdrivers is not allowed. Tightening torques for screws during assembly:



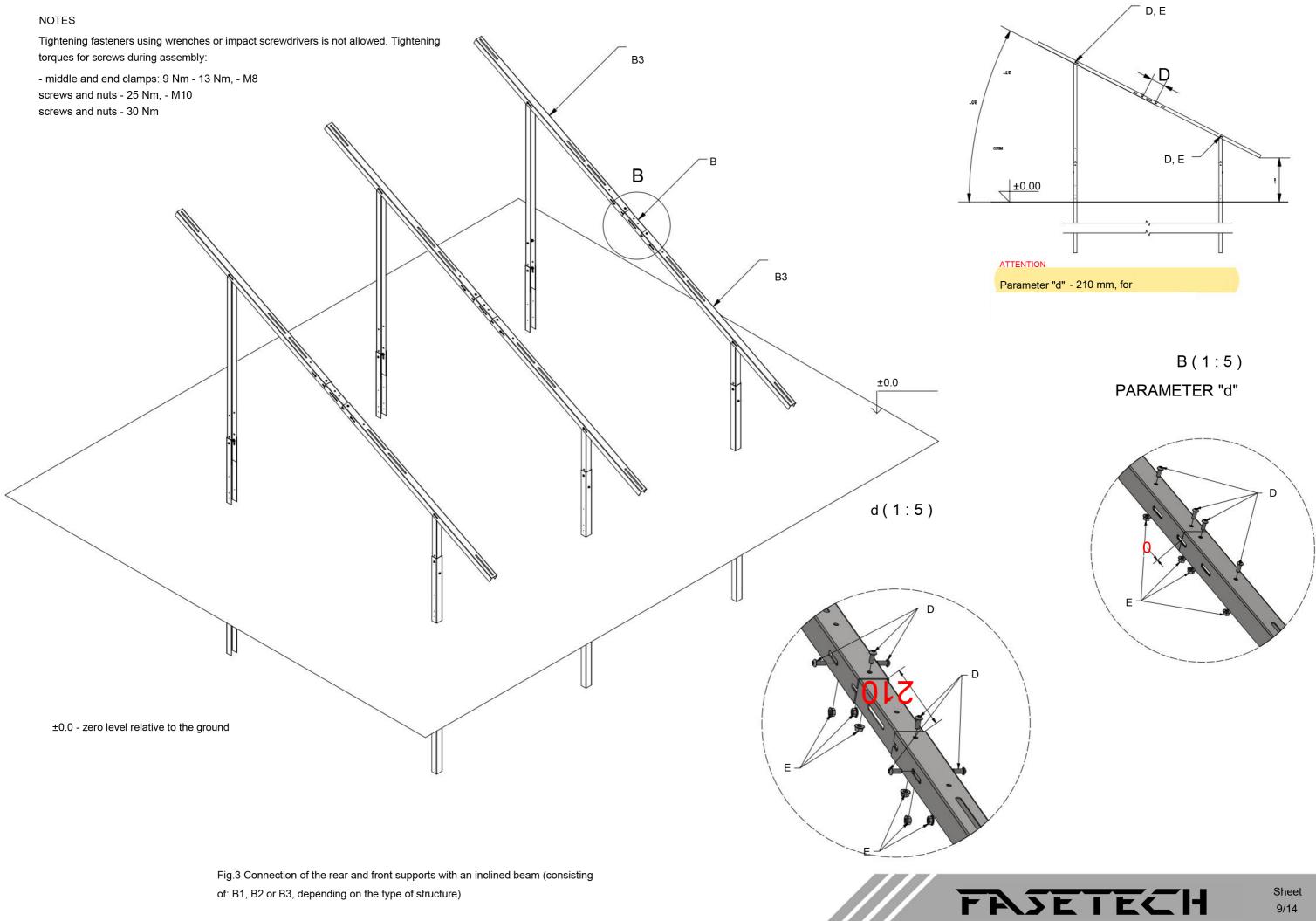


Screw connection





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NOTES

Tightening fasteners using wrenches or impact screwdrivers is not allowed. Tightening torques for screws during assembly: - middle and end clamps: 9 Nm - 13 Nm, - M8

С

screws and nuts - 25 Nm, - M10 screws and nuts -

30 Nm

Fig.3-1 Connection of the strut (C) with the diagonal beam

С

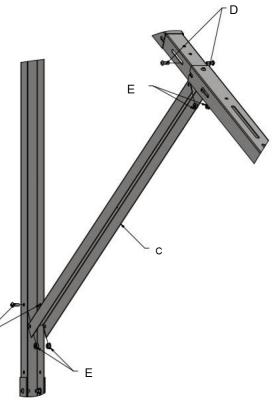


D

±0.0

±0.0 - zero level relative to the ground

Screw connection



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NOTES

Tightening fasteners using wrenches or impact screwdrivers is not allowed. Tightening torques for screws during assembly: - middle and end clamps: 9 Nm - 13 Nm, -

M8 screws and nuts - 25 Nm, - M10 screws and nuts - 30 Nm

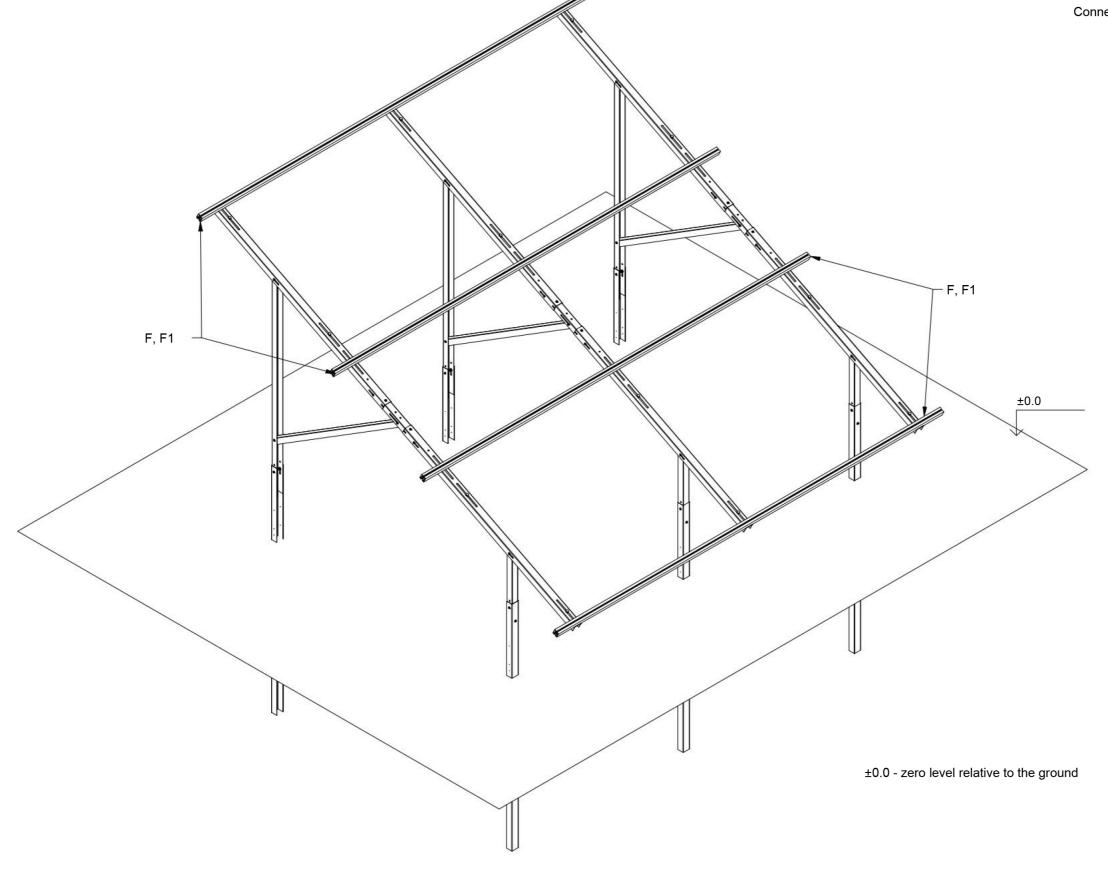
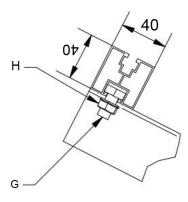


Fig.4a Installation of the transverse rail (F, F1) (connection of rails with an inclined beam)



Connection of an aluminum rail with a steel diagonal beam



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COMMENTS

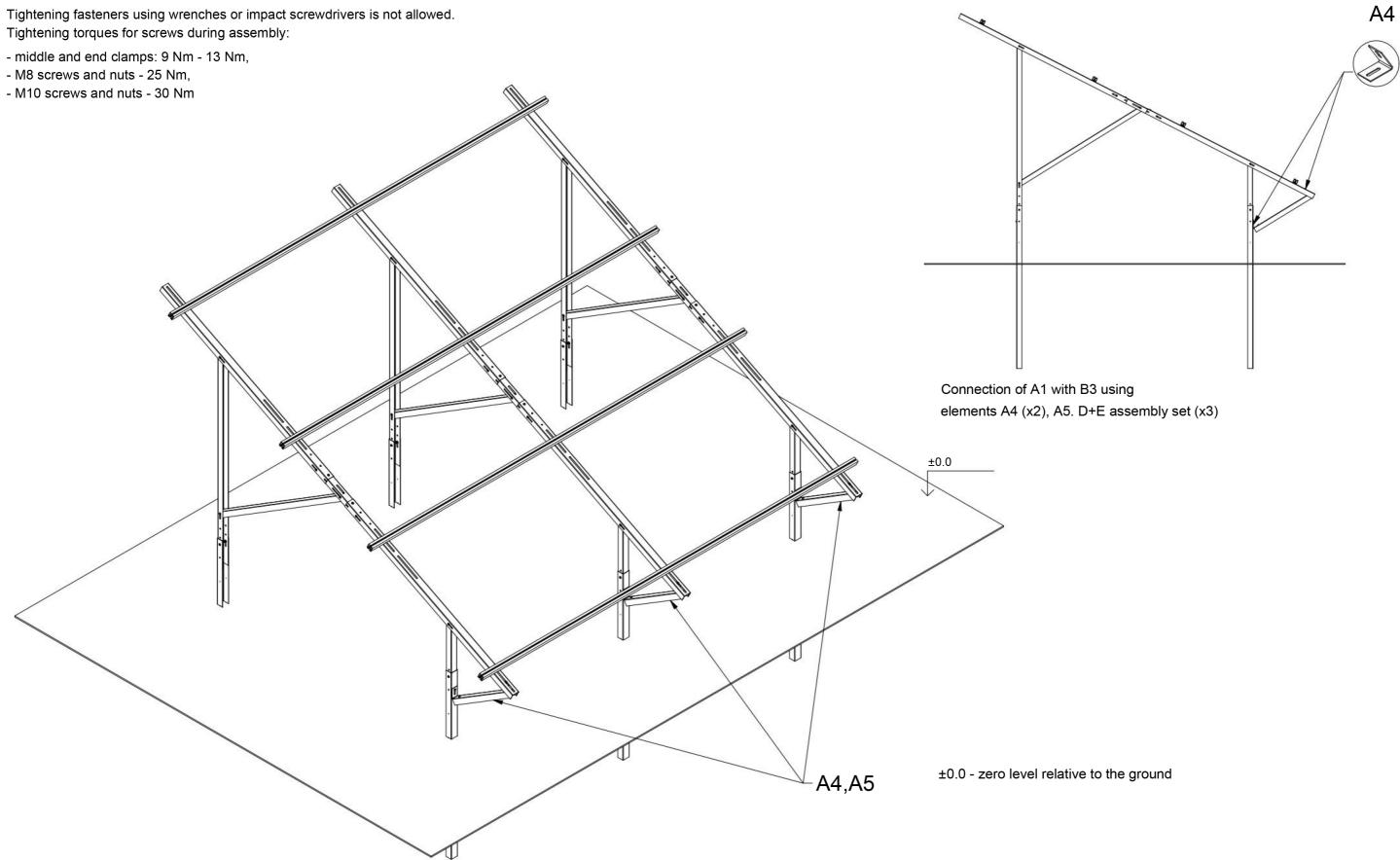
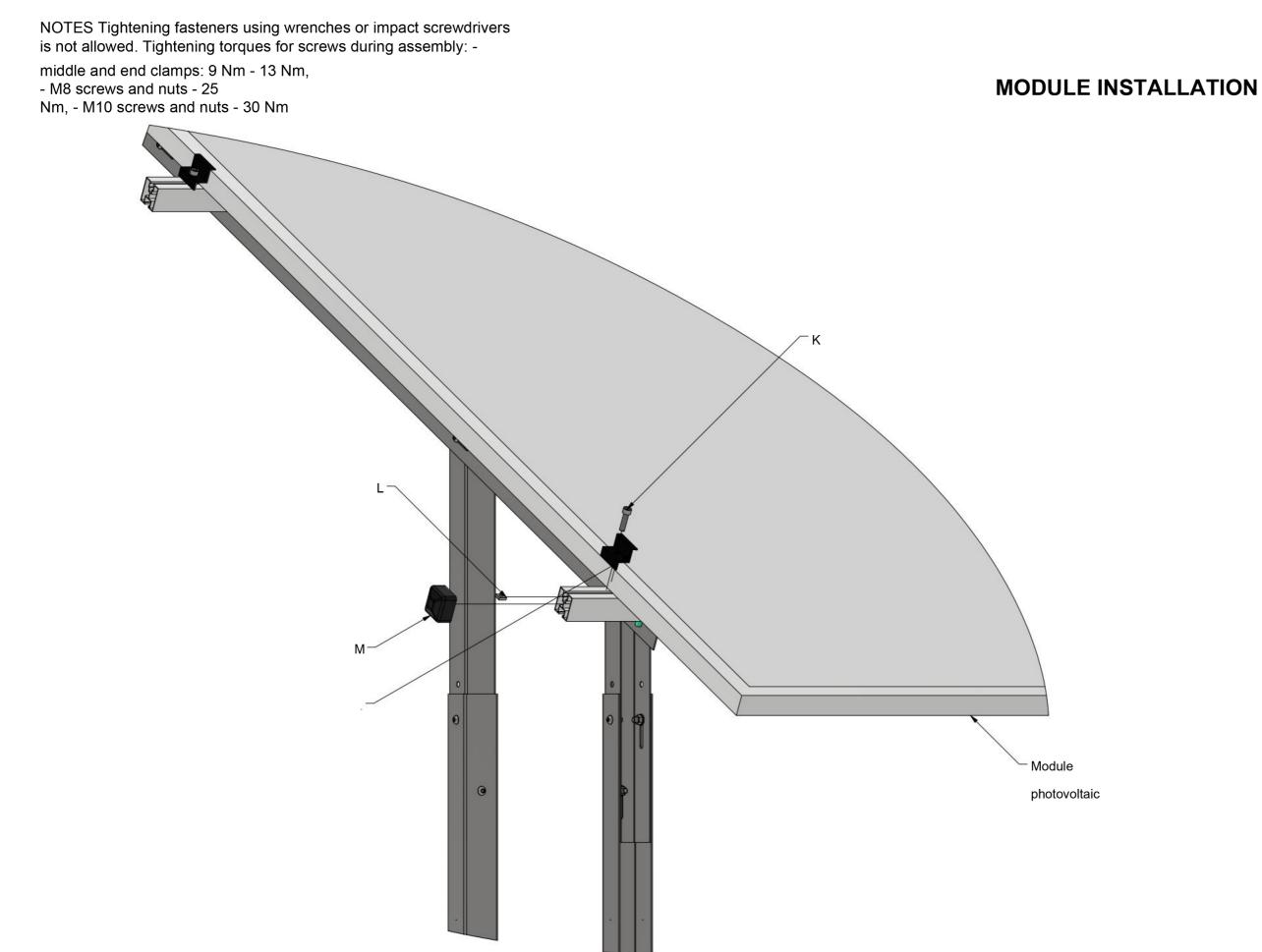


Fig.4b Installation of the transverse rail (F, F1) (connection of rails with the diagonal beam) and supporting elements (A4, A5)

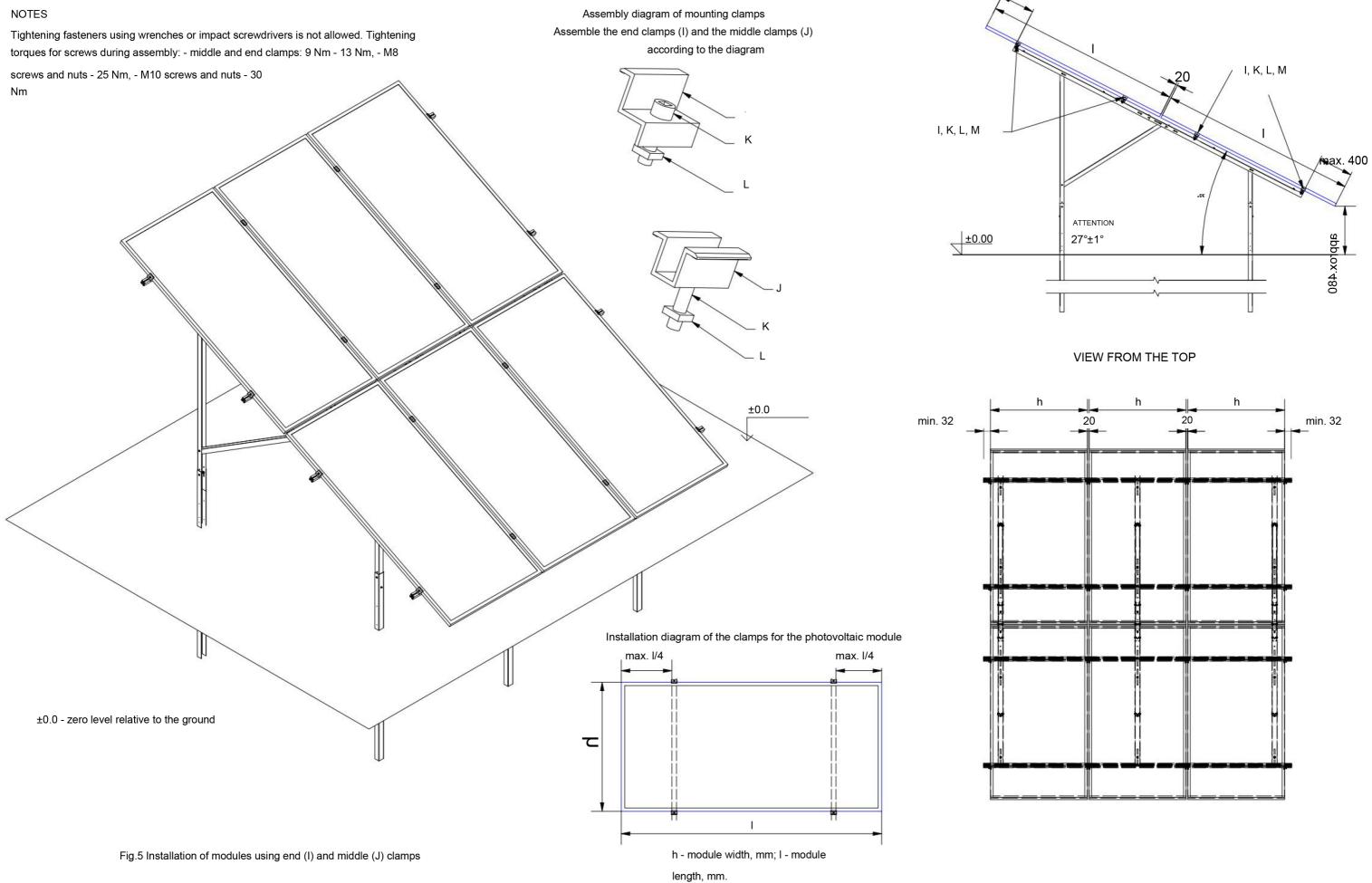


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