



Trapezoidal C-bracket Fastener System

Assembly notes



Notes

The assembly is suitable as a fastener on trapezoidal roofs with a sheet thickness of 0.63 to 1.5 mm. The modules must be horizontal. Please check before mounting the module dimensions and clear the clamping area with your module manufacturer.

This manual contains important information for a safe and proper installation and use of the trapezoidal C-bracket fastener system.

It is urgently recommended to pay attention to the safety information of this manual.

Please follow the general legal regulations (accident prevention) as well as the safety information. Regarding the warranty provisions please refer to the general terms and conditions of ALTEC Metalltechnik GmbH.

First of all, please fence off the working area in which installation happens to secure it against unintentional entering. Commence work on the installation with safety in mind. If necessary, you need to clear the working area before work starts (e.g. snow). Switch off

the power supply before working on electrical components. Wear protective equipment as gloves, safety boots and a hard hat during all this time.

You need preferably 1-2 people depending on the assembly step. Check that all components are available. Arrange the parts in the intended order of assembly. Store the components in a dry area before assembly to ensure no accidental damage or weathering of the components.

Cover the aluminum from rain, as a chemical reaction will cause fountain blackness (black discoloration).

The manufacturer will not accept responsibility for damages caused by incorrect installation or force majeure.

Please note: any changes on components of the trapezoidal C-bracket fastener system – during installation or later – have to be clarified with the manufacturer. If changes will happen without notice of the manufacturer, any liability claim expires in case of damage. Damages of any kind which may be traced back to the customer will be excluded from the warranty.

It is pointed out that on a necessary disassembly and disposal the valid regulations must be kept. Please, contact in this case a specialized company.

All documents are project-based and issued in terms of static aspects.

Static notes

The roof must be able to accommodate the additional loads resulting from the installation of a PV system.

Adequate fastening of roofing to the substructure must be guaranteed.

The trapezoid C-Profile fastener is easily used on buildings with following wind and snow loads:

Wind load: Zone 2, $h < 18$ m (inland)

Zone 2, $h < 10$ m (coast)

Zone 3, $h < 10$ m (inland)

Snow load: Zone 2, to $h < 285$ m above sea level and north German lowlands

Zone 2, to $h < 420$ m above sea level

Zone 2a, to $h < 285$ m above sea level

For other wind and snow areas, please check with our team.

Parts overview

Assembly notes

1



C-rail bracket with EPDM tape

2



Middle clamp

3



End clamp

4



Thin sheet metal screw

Calibration of the fixing point

The distances of the trapezoidal C-bracket fasteners arising from the module width + 19 mm (length of the middle clamp) + 2 mm (for tolerances) ①. The pinch point must lie on the raised bead and must not be set to the clamping area of the module ②. For mounting an drill jig is recommended.



C-profile pieces placed on the trapezoidal sheet raised bead and parallel align. They are fastened with thin sheet metal screws. These are velocity-oriented (depth gauge) to be screwed.

Fixing the modules

First, insert the end module in the c-profile pieces and threaded plate rotate by 90°.

Click in middle clamps between the modules on the C-profile pieces and tighten. The distance between the modules 19 mm.



All terminal connections of the M8 should be tightened to 12 to 15 Nm.



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