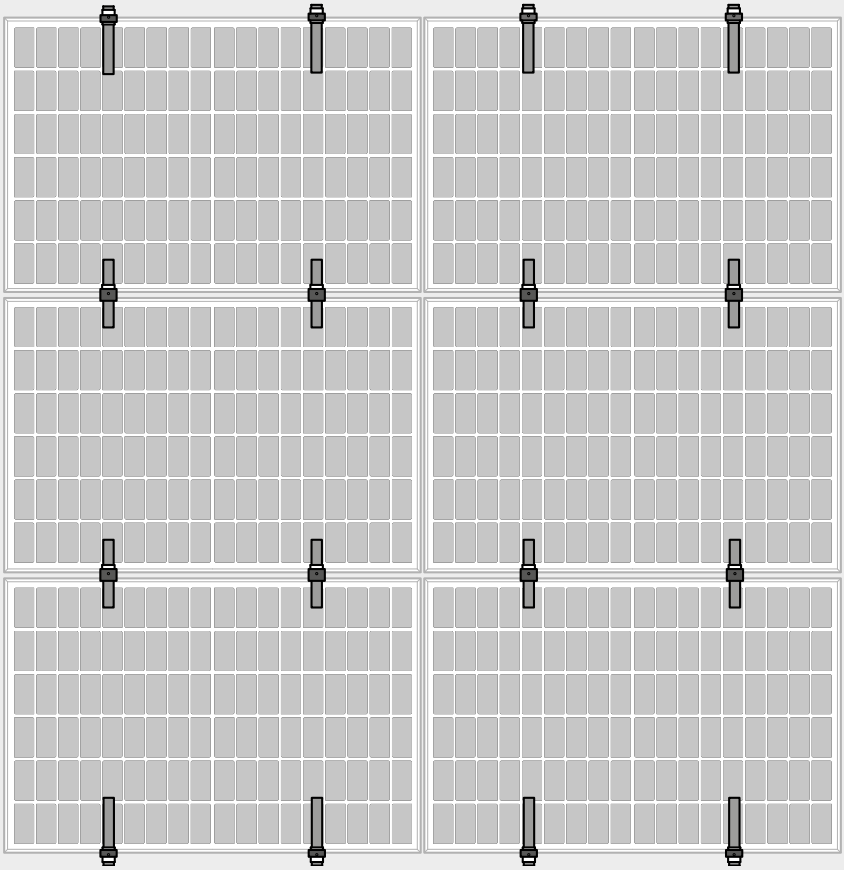
Installation on a facade

Installation instructions

SnapSolar®



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Basic installation guidelines

General safety instructions

Personnel and protective equipment
Work may only be carried out by trained and qualified personnel wearing suitable protective equipment such as a helmet, gloves, safety shoes and fall protection.

Weather conditions and regulations
Facade work is only permitted in suitable weather conditions. All national and local building regulations, technical standards and environmental protection guidelines must be strictly adhered to.

Preparation
The substructure's load-bearing capacity must be checked before work ist started. The instructions provided by the module manufacturers must be observed.

Organizing the work
Installation should always be performed by at least two people so immediate assistance can be provided in the event of an emergency.

Electrical work
All electrical work, including equipotential bonding between the system's individual components, must be carried out in accordance with applicable national and local standards as well as the safety regulations for electrical installations.

Maintenance
SFS's SnapSolar® must be professionally maintained.
Annual maintenance measures include:
- Visually inspect for damage caused by weather, animals, dirt, vegetation, roof-penetrating holes and corrosion.
- Check and, if necessary, tighten the fastener connections according to the installation instructions.
- Check the load-bearing capacity, stability and functionality.

Specialist firms or experts must carry out an inspection after any extreme events (earthquakes, heavy snowfalls, storms, etc.).

Warranty and liability
SFS offers a 12-year product warranty if installed professionally and all safety instructions are observed. Please contact your SFS representative at any time for detailed product warranty guidelines.
If SFS's installation instructions are not followed, if any system components remain unused or if non-SFS components are installed or used to replace SFS components, SFS assumes no liability for defects or damage that arise as a result. In such cases, all warranty claims shall become null and void.

Updates to installation instructions
Since SFS makes ongoing improvements to its installation systems, the installation processes can change. Always check for the latest version of the installation instructions prior to installation by scanning the QR code in the instructions.

Facade requirements

The facade cladding's load-bearing capacity must be checked and approved by a qualified specialist.

Minimum material requirements
Steel trapezoidal sheeting:
- ≥ 0.5 mm thick
- Steel quality: at least S280GD according to DIN EN 10346

Aluminum trapezoidal sheeting:
- ≥ 0.7 mm thick
- Minimum tensile strength of 165 N/mm²

Crest requirements
- Minimum width of 22 mm

Important information about installation

Preparing the installation surface
The installation surface must be cleaned before installation.

Installing the C-Rails
C-Rails must be installed directly on the trapezoidal sheeting; they must not be fastened to domes or any other intermediate elements. C-Rails must be fastened with the SFS CX-6.0 fastener.

Thermal expansion gaps
A thermal expansion gap is required in the direction of the crest after a maximum module row length of 13.6 m.
The minimum gap between the C-Rails in the direction of the crests is 30 mm. A horizontal gap of at least 5 mm must be ensured between adjacent modules.

Fastener connections
The fastener tightening torques indicated in the installation instructions must be observed. No lubrication may be used on fastener connections.
Ensure that the fastener connections are not overtightened.

Regulations and tests
Local fire safety regulations must be taken into account during installation.
Ventilation behind the facades must comply with currently valid regulations.
The functionality of the installed system must be checked and approved by a qualified person.

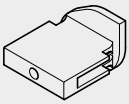
Installing the solar modules
Commercially available solar modules with a thickness of 30–40 mm are suitable. They must be fastened exclusively to the module frame using Mid- and End-Clamps.

Overview of components and tools

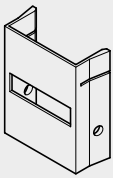
Installation kit



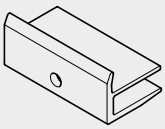
C-Rail C32 250 mm with EPDM
2175259
120 pcs



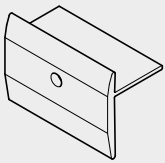
PV-Holder 30–40
2150127
120 pcs



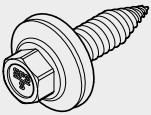
SnapClip
2150128
120 pcs



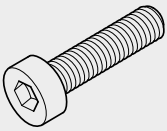
PV End-Clamp
2150130
120 pcs



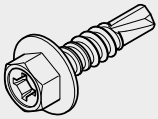
PV Mid-Clamp
2150129
120 pcs



CX-S16-6.0×25
2179713
500 pcs

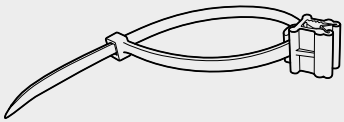


M6×30
2176535
120 pcs

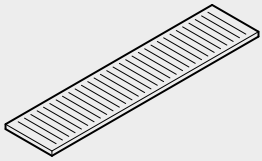


SDA5/3,5-8-H13-S4-5,5×22
2179715
120 pcs

Optional accessories

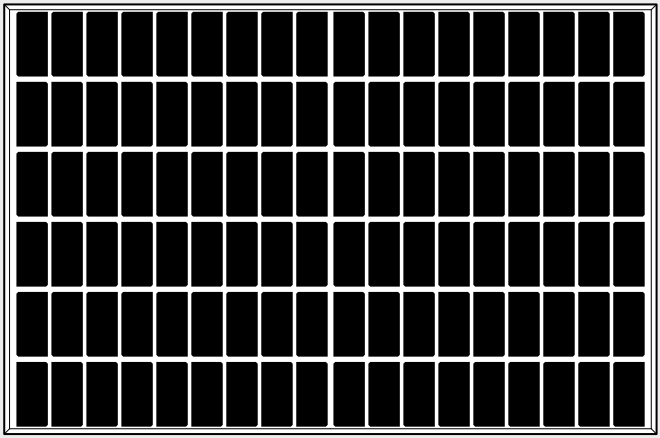


Cable ties
2173699
100 pcs

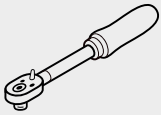


Fine adjustment plate 1 mm
628496
1000 pcs

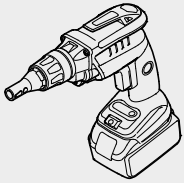
Solar modules and tools



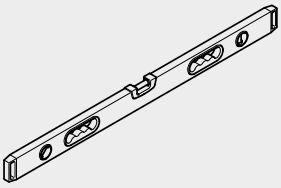
Solar module



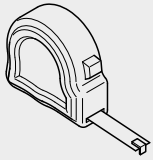
Torque wrench



Cordless drill/driver



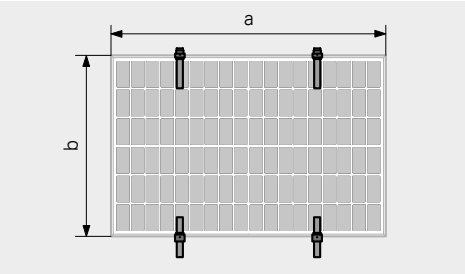
Spirit level/laser level

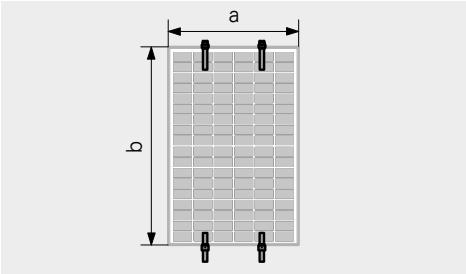


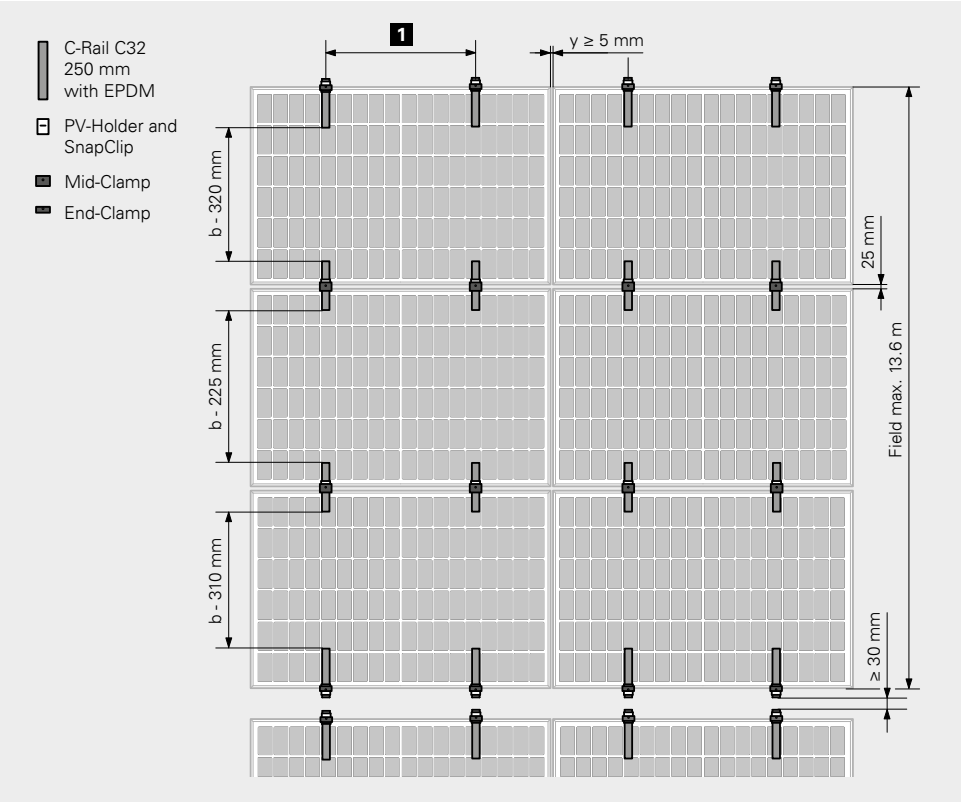
Tape measure/folding meter stick

Installation

Overview of installation elements and dimensions







1 The installation distance of C-Rail according to the PV module manufacturer's specifications. If not specified, use a×0.5 spacing. Tolerances due to compensation of high corrugations are allowed.

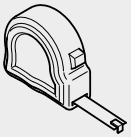
Installation of the C-Rails on the trapezoidal sheeting

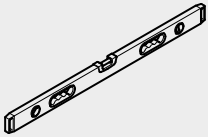


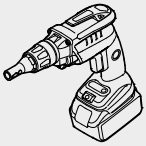
C-Rail C32
250 mm with EPDM
2175259

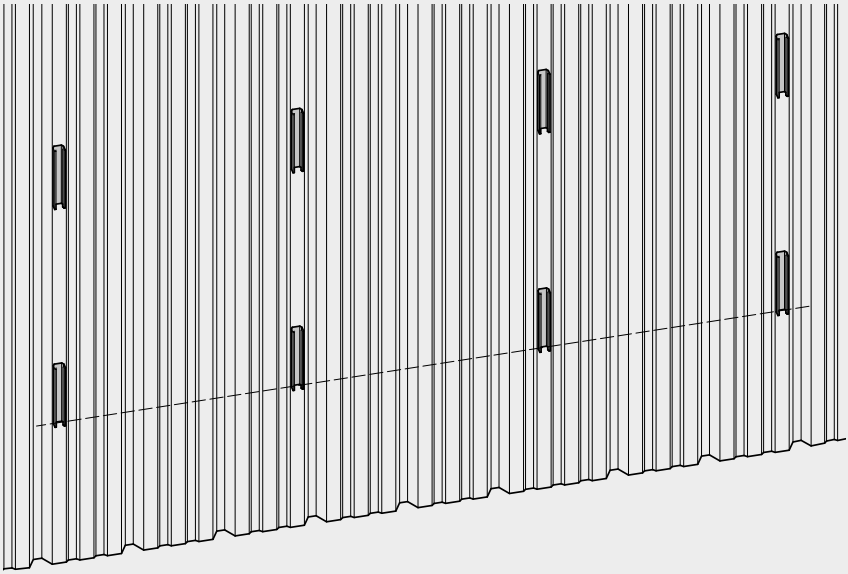


CX-S16-6.0×25
2179713

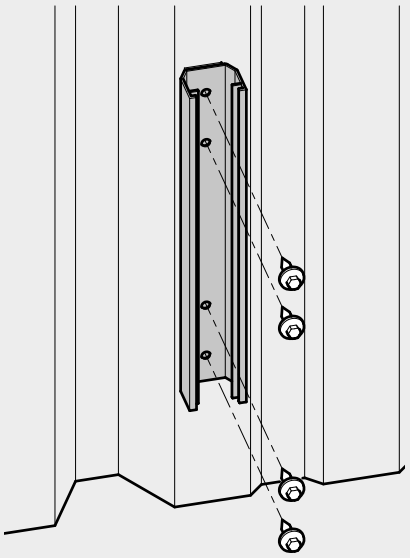






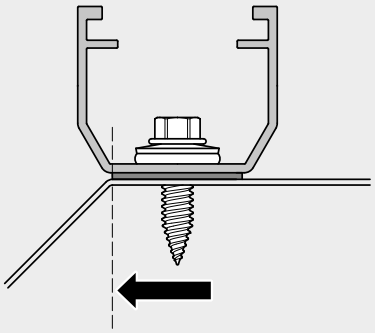


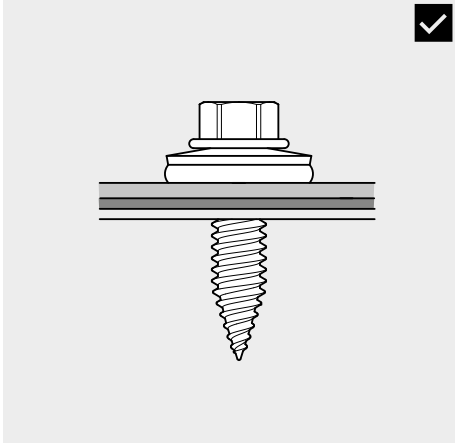
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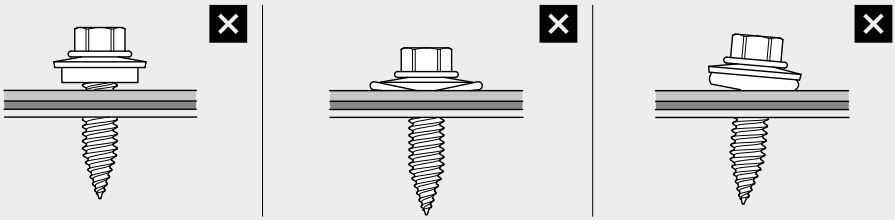


First install the outer fasteners, then the inner fasteners

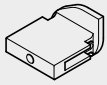
NOTICE



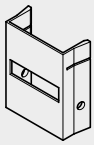




Installation of the PV-Holder and the SnapClip

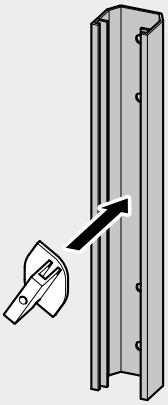


PV-Holder 30–40
2150127

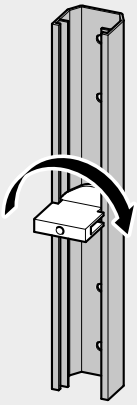


SnapClip
2150128

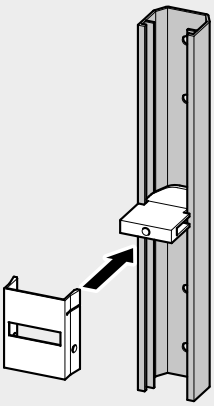
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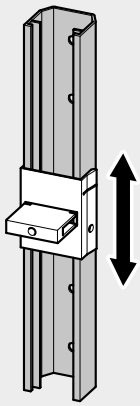
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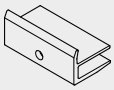
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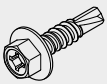
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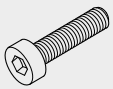
Installation of the End-Clamp at the bottom



PV End-Clamp
2150130



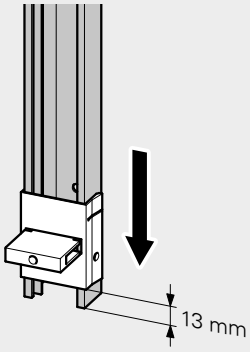
SDA5/3,5-8-H13-S4-5,5×22
2179715



M6×30
2176535

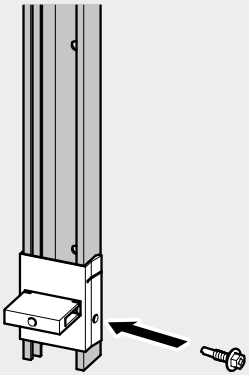


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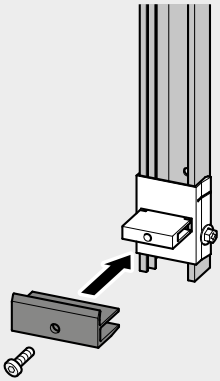


SnapClip with the fastener-hole pointing downward

❷

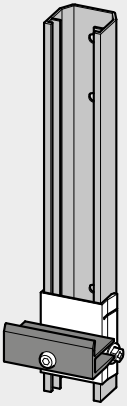


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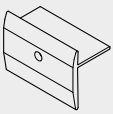


Do not tighten the fasteners yet

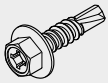
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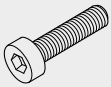
Installation of the Mid-Clamp



PV Mid-Clamp
2150129



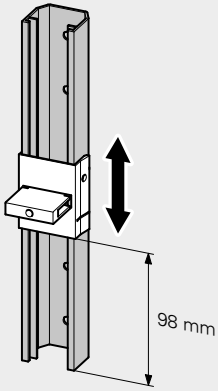
SDA5/3,5-8-H13-S4-5,5×22
2179715



M6×30
2176535

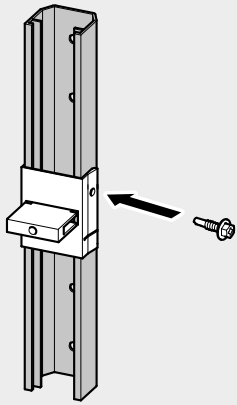


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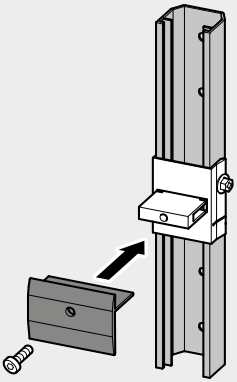


SnapClip with the fastener-hole pointing upward

❷

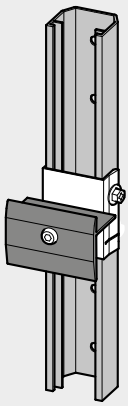


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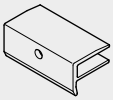


Do not tighten the fasteners yet

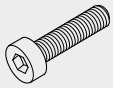
❹



Installation of the End-Clamp at the top

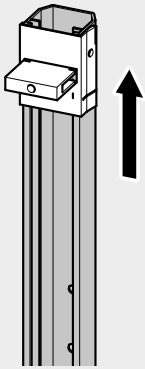


PV End-Clamp
2150130



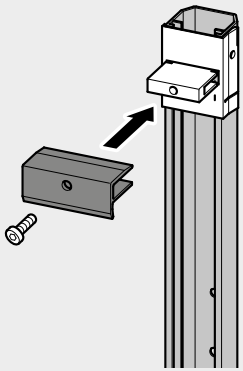
M6×30
2176535

❶



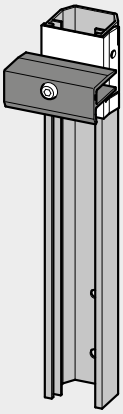
SnapClip with the fastener-hole pointing upward

❷

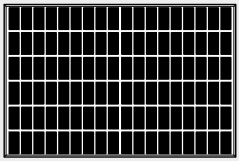


Do not tighten the fasteners yet

❸

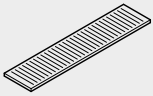


Installing the solar module and the optional accessories



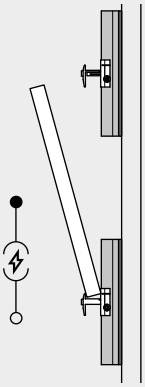


Cable tie
2173699



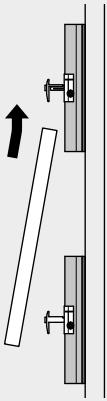
Fine adjustment plate 1 mm
628496

❶

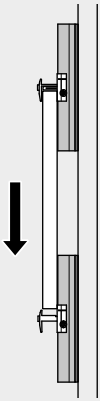


Cables can be connected now

❷

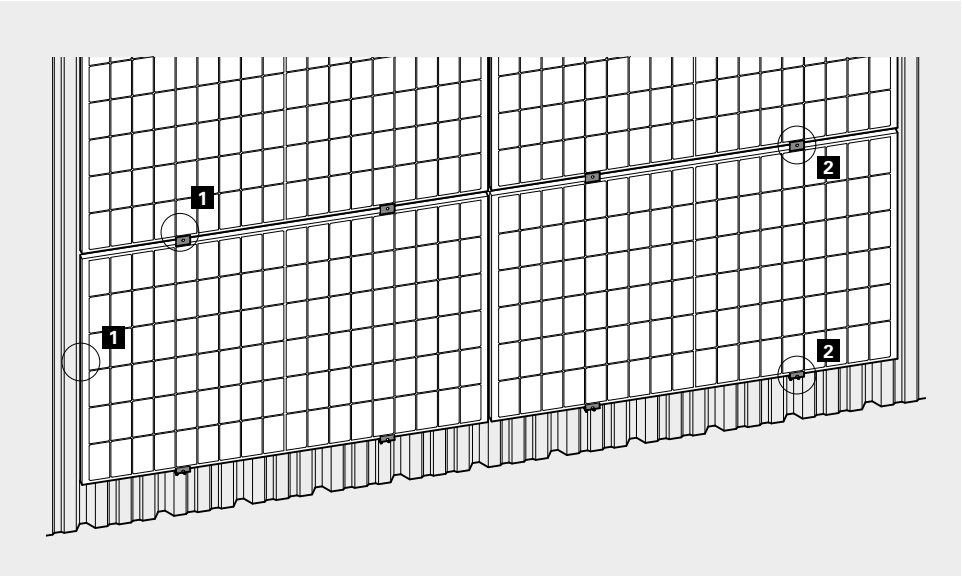


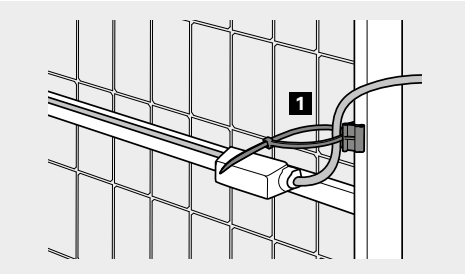
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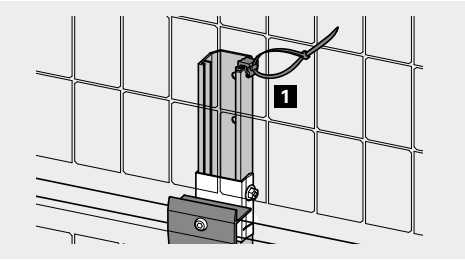


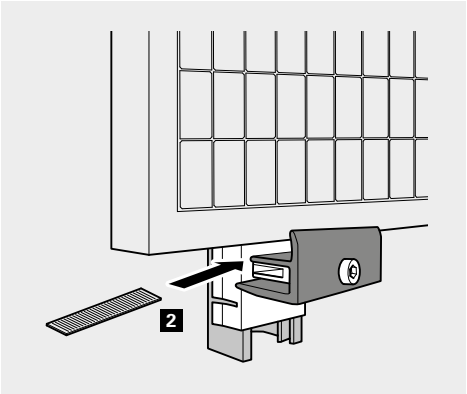
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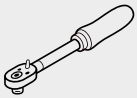




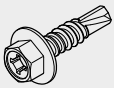


To fine-tune the solar module's height, a maximum of two Fine adjustment plates (a total of 2 mm) can be placed under the solar module on the Mid- or End-Clamp. Ensure that the solar module is securely clamped in place.

Tightening and final system check

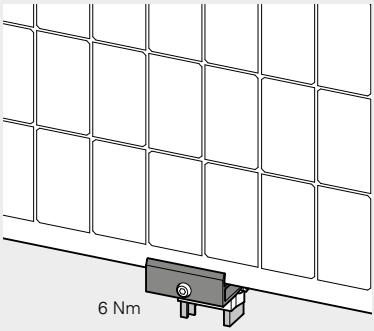






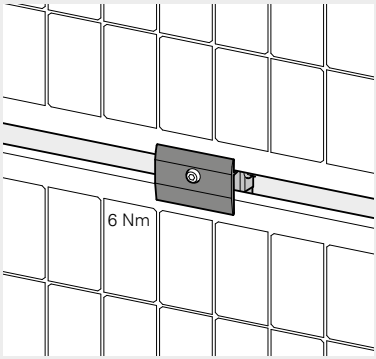
SDA5/3,5-8-H13-S4-5,5x22
2179715

❶

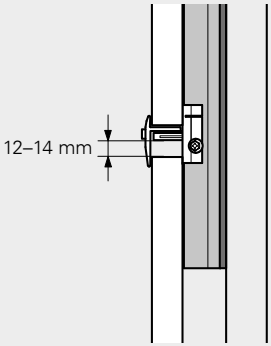


Finally, tighten all fasteners

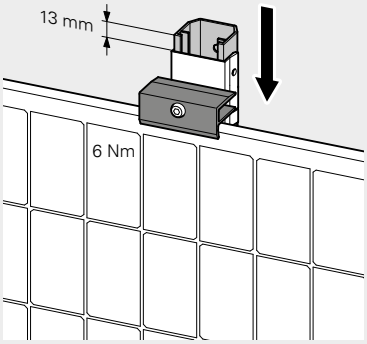
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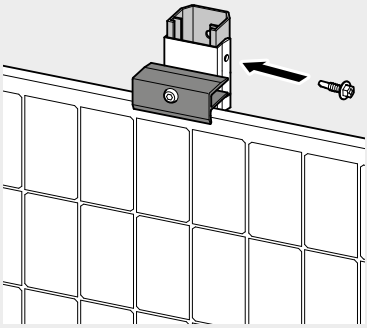
NOTICE



❸

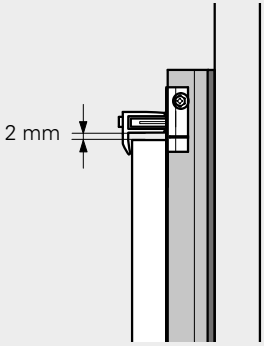


❹



The fastener is optional and not required for the top-most PV module

NOTICE



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