



SOLARWATT FACADE SYSTEM

PLANNING SUPPORT

VERSION: 08 / 2014

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VERSION: 08/2014 | SUBJECT TO CHANGE | © 2014 SOLARWATT GMBH

SOLARWATT FACADE SYSTEM

Plant location

Postcode, City

Environmental specifics

Building dimensions

Length x Width x Height

Wind load(if available)

kN/m²

Wall construction

Material (brick, concrete, wooden stand, etc.)

Heat insulation (yes/no)

If yes:

Insulation thickness

Insulation material

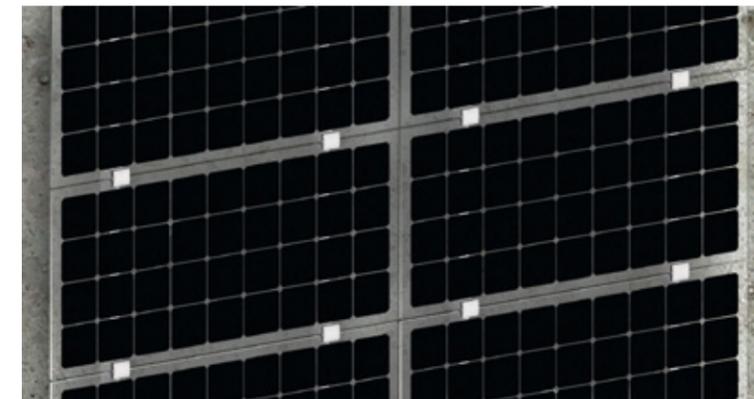
Plaster thickness in mm

Module field

Length x Width [m]

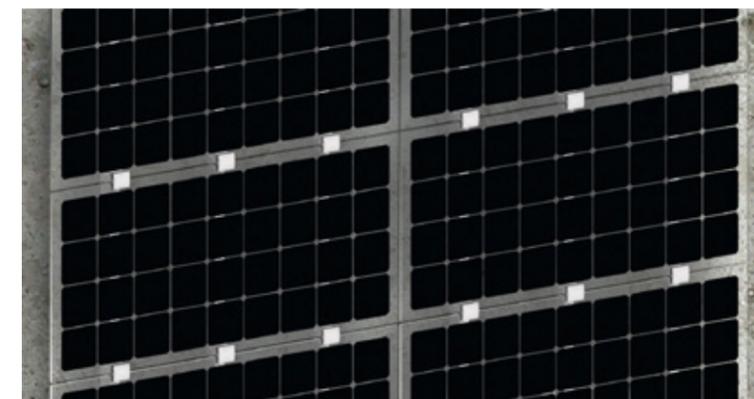
bottom/top/side [m]

We need some information on the project in order to deliver a system that has been adapted to your specific circumstances



The horizontal and vertical distance between the modules is 10 mm.
The heat insulation surface should be resistant to driving rain. The system's good ventilation ensures that any moisture will dry quickly.

III. Four-point mounting bracket; wind load ≤ 0.9 kN, suction load up to 0.9 kN/m²



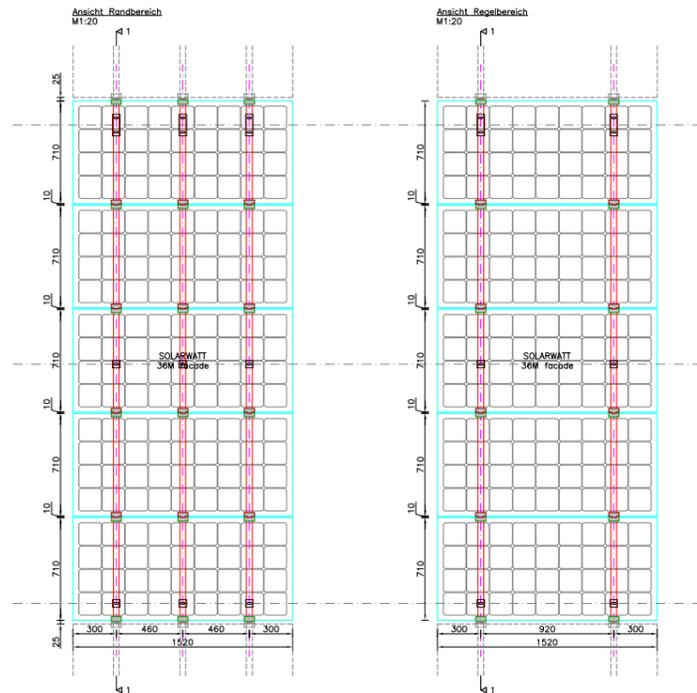
Six-point mounting bracket; wind load ≤ 1.5 kN, suction load up to 1.5 kN/m²

VERTICAL PROFILE

III. Vertical profile positioning

A standard façade segment consists of five modules.

Two or three vertical profiles per module row are installed for both solutions, depending on the wind loads the building is exposed to. The illustrations show how the profiles are positioned.



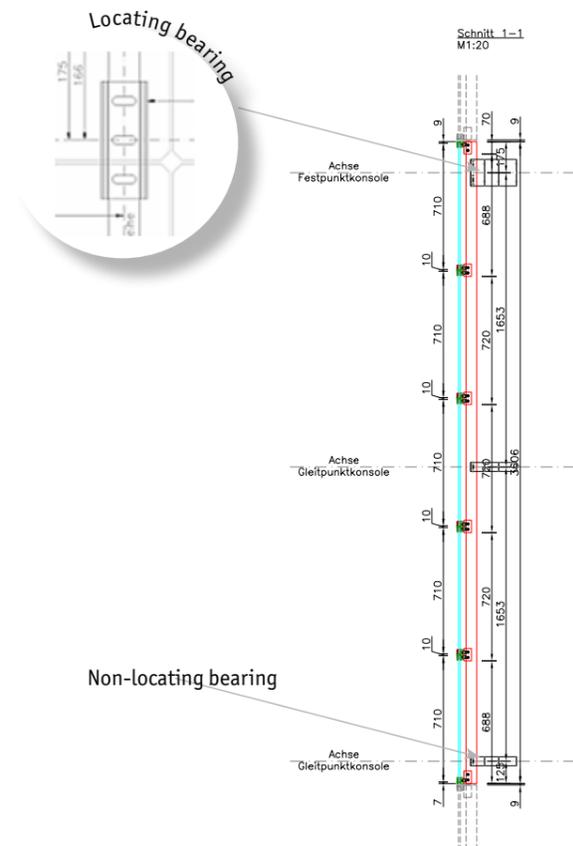
III. Longitudinal section with location of brackets for locating and non-locating bearing

A standard segment is comprised of 3006 mm-long profiles, which are secured to the wall using mounting brackets.

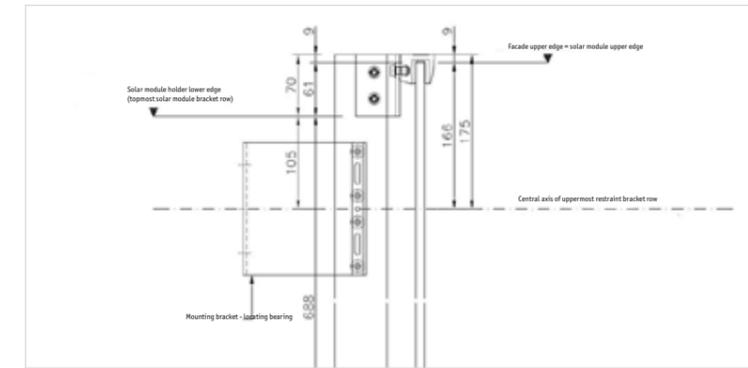
The longitudinal section shows where the mounting points are located.

While non-locating bearings only absorb wind loads (horizontal loads), the locating bearings bear the weight of the equipment (vertical loads). The construction foundation must therefore be capable of continually absorbing 800N of vertical load per locating bearing. Each locating bearing consists of at least two independent mounting points.

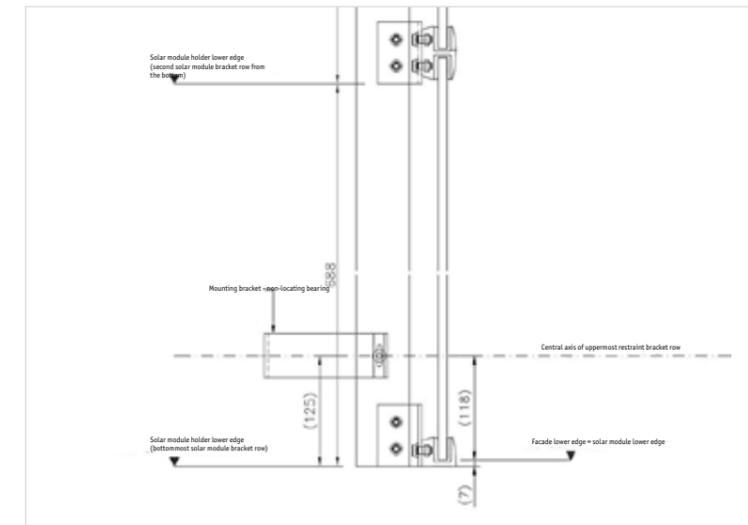
Dividing the load between locating and non-locating bearings allows free thermal expansion of the individual segments, and prevents thermal strain from developing in the system.



MODULE FIELD TERMINATION



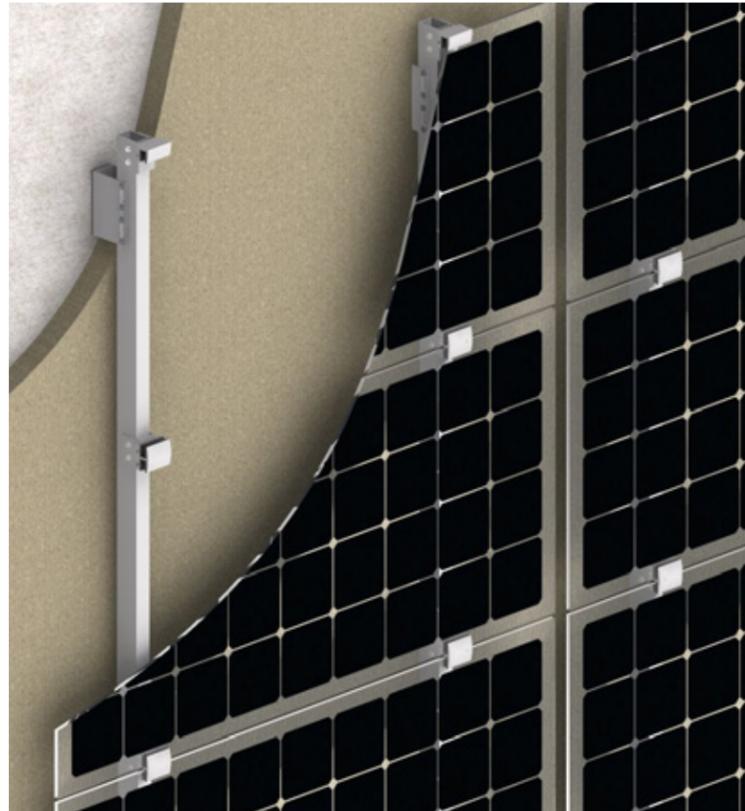
III. Detail, module field upper end



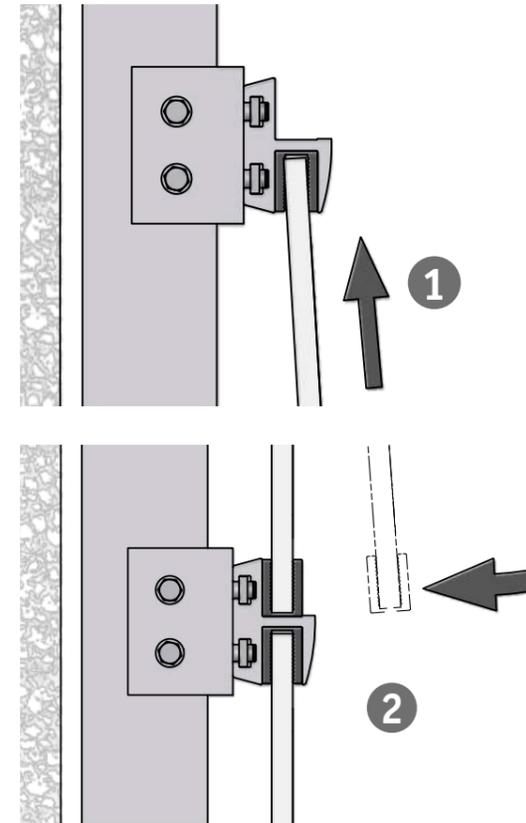
III. Detail, module field lower end

MONTAGE PRINCIPLE

III. Montage principle



MONTAGE PRINCIPLE



III. Module attachment - top

III: Module attachment - middle

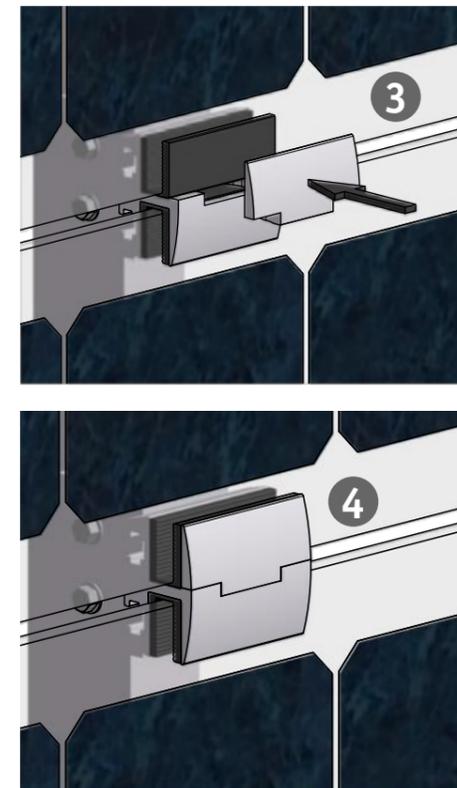
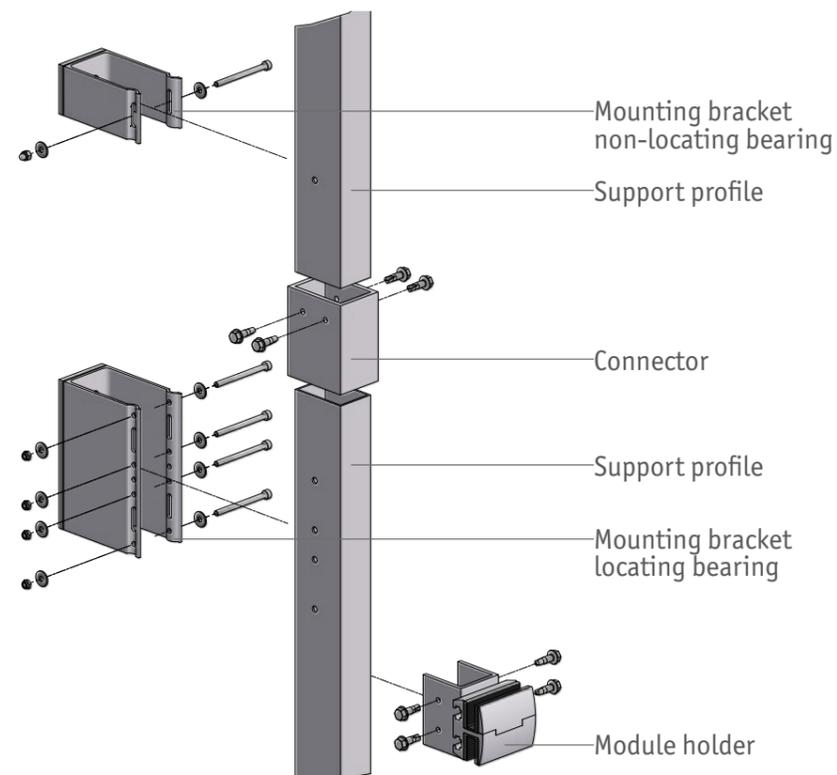
NOTE

The necessary means for attaching the system to the foundation depend on the materials in use, and are not included!

Recommended materials for anchoring into concrete:

Hilti HST-R M10 (concrete at least C20/25) or Hilti HIT-HY 200-A + HIT-V-R M10 (concrete at least C12/15)

Any other approved fasteners having equal or better ratings may also be used.



III: Module attachment - middle patented click system



Interested in our products and services? We'd be glad to assist you. Just call us!

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