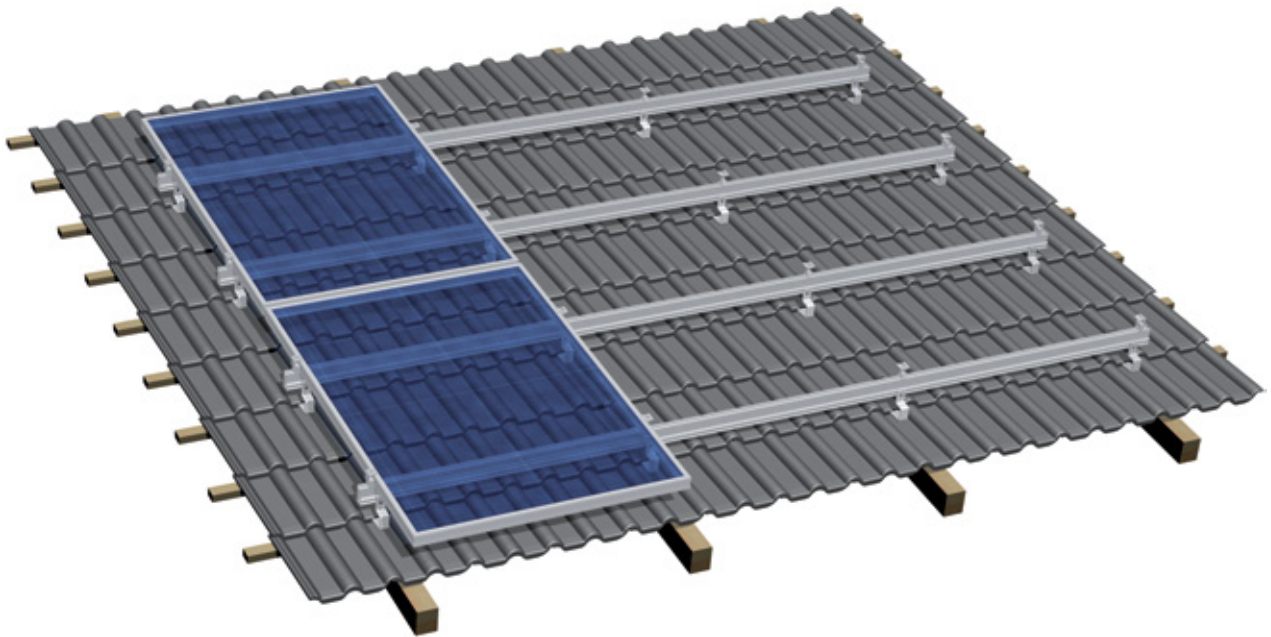




PITCHED ROOF STRUCTURES

for tiled roofs



Flexible application

The S:FLEX pitched roof system allows for easy installation of framed and frameless photovoltaic modules on old and new buildings with all common kinds of roofing (tiles, plain tiles, slate).

Quick Assembly

The S:FLEX pitched roof mounting structure has numerous pre-assembled parts. The click technology further reduces assembly time. Spanners of two different sizes are the only required tools on the roof, and the detailed assembly instructions ensure an easy installation.

Extensive Module Compatibility

Height-adjustable module clamps and end clamps allow for maximum flexibility when mounting framed modules from 30 to 50 mm thick. We can also provide certified laminate clamps for frameless modules.

Excellent Adaptability

Roof hooks are suitable for all kinds of tiles. They can be adjusted laterally and in height. Variable system height capability enables level PV arrays on uneven roof surfaces.

Precision without cutting

The use of our telescoping mounting rail splices enable the equipment to be positioned accurately without the need for cutting.

Maximum security

If required, S:FLEX can provide structural design services for the mounting structure in compliance with the 2006 International Building Code.

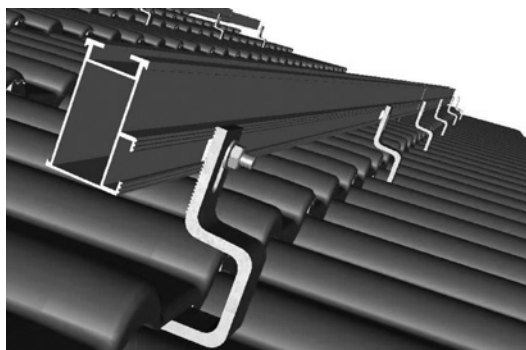
Long service lifetime

All major components are made of aluminum and stainless steel. High corrosion resistance ensures a maximum service life, and all components are recyclable.

PITCHED ROOF STRUCTURES

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Technical Data



Tiled roof installation with roof hooks

Notice:

When attaching a photovoltaic system by penetrating the roof or adding additional ballast, it is important to select the mounting fixture appropriate to the location and the structural integrity of the building. The services of a professional local roofer or structural engineer are advised.

¹ Valid for roofs with roofing tiles.

² Be aware that wind loads are higher in areas which are closer to the edge of the roof or at the corners of the roof. Refer to the installation guidelines to identify the location and number of fastening points.

³ For an extra charge.

Application	Pitched roof
Roofing type	Suitable for all kinds of roofing
Roof pitch	Up to 60 degrees ¹
Building height	25 m max.
Wind load	Up to wind load zone 4 ²
Snow load	Up to snow load zone 3
Module type	Framed and frameless
Layers of rails	Single or double layer
Module orientation	Vertical or horizontal
Module field size	Not restricted
Height adjustment	Up to 92 mm (dependent on system)
Distance between roof attachment fixtures	Up to 2500 mm, dependent on site conditions, building height, means of attachment and type of module
Standards	DIN 1055, on request Statics ² / EUROCODE 9 — Dimensioning and design of aluminium frameworks
Roof hooks	Aluminium standard: EN-AW-6063 T6 Plain tile and slate: Stainless steel A2 1.4301
Mounting rails	Extruded aluminum EN-AW-6063 T6
Small parts	Stainless steel X5CrNi18-10 A2-70
Lightning protection	Optional
Colour	Natural aluminium
Warranty	10 years on durability of materials