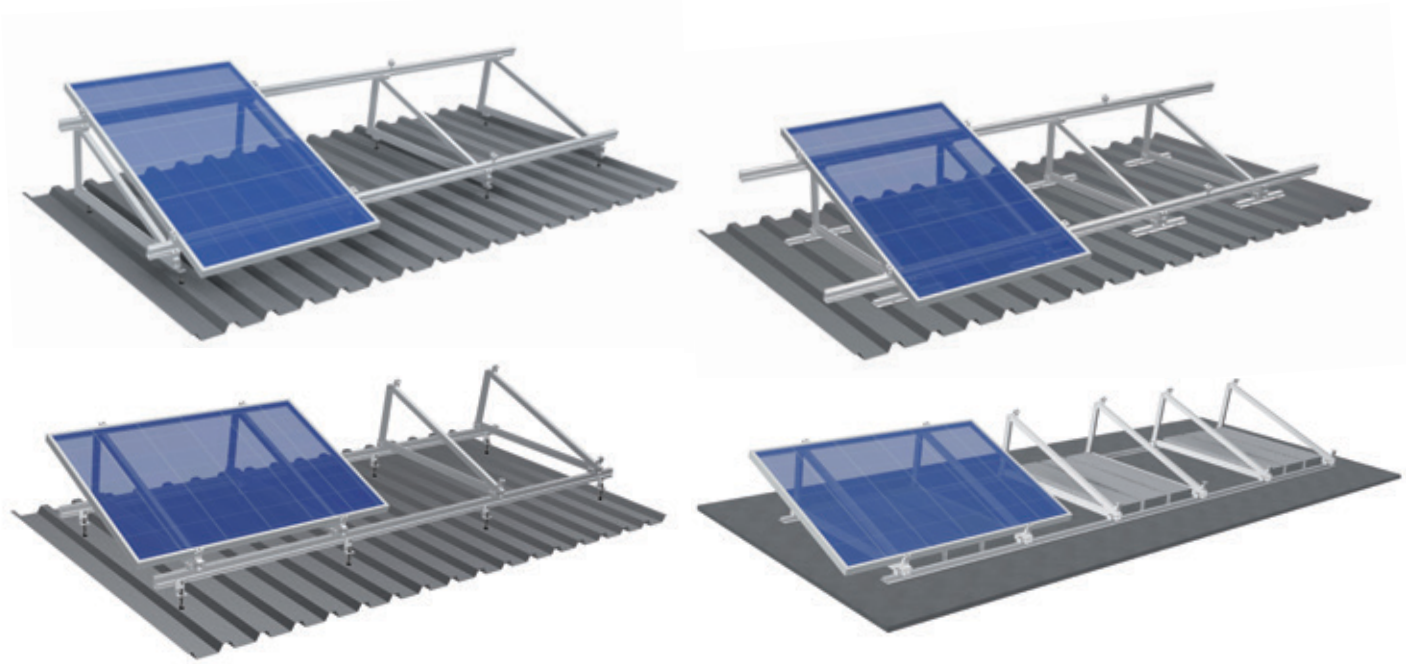
S:FLEX

Technical Data

DELTA TRIANGLE

for elevated systems



Flexible application

The S:FLEX Delta Triangle enables easy installation of framed and frameless PV modules on flat and slightly inclined roofs on both old and new buildings.

Diverse installation variants

- Bolting to ballast blocks / stone slabs
- Installation on floor rails to accommodate ballast blocks
- Direct installation with hanger bolts or on mounting rails
- Installation on trapezoidal sheet metal

Comprehensive module compatibility

Thanks to a flexible module holder and a height-adjustable end holder with one-click technology, this fastening system allows maximum flexibility when installing virtually all framed module types with a frame height of 30 – 50 mm. The installation of frameless PV modules is made possible by tailor-made certified laminate clamps.

Easy storage, fast installation

The fully pre-assembled S: FLEX Delta Triangle is delivered collapsed to reduce transport and storage costs as well as installation time. Thanks to its compact dimensions, up to 252 triangles can be stacked in secure packaging on one Euro-pallet.

Excellent adaptability

Due to the adjustable height of the mounting rails, a flat PV field can even be achieved on uneven roof surfaces.

Maximum safety

For systems with the S:FLEX Delta Triangle, a verifiable structural analysis can be provided on request in order to meet one of the application requirements for a building permit.

Long service life

All components are made of aluminium and stainless steel. The high degree of corrosion resistance ensures a long service life and offers the possibility of complete recycling.

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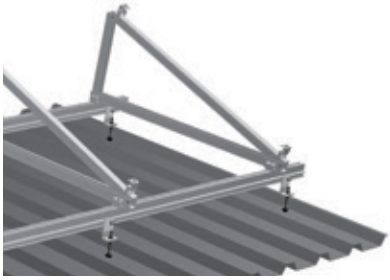
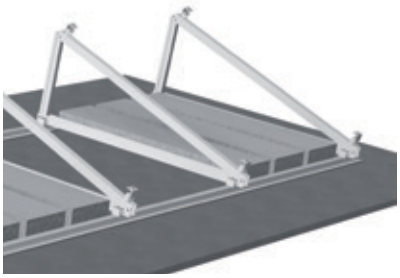
Installation with hanger bolts

Installation on mounting rails with hanger bolts



Installation with trapezoidal sheet metal rails

Installation with ballast on mounting rails



Applications	Flat roofs with green-roof, gravel, foil and bitumen coverings, as well as slightly inclined roofs with trapezoidal / corrugated / fibre cement / sandwich panel coverings
Pitch	Available in 5° steps from 5° to 45°, other angles possible
Building height	Up to 25 m
Snow load	Up to 2.4 kN/m²
Wind load	Up to 2.4 kN/m²
PV modules	Framed and frameless
Module orientation	Portrait / landscape
Module field size	Unlimited
Module field location	Unrestricted
Standards	DIN EN 1991-1-3:2010-12 (Snow), DIN EN 1991-1-4:2010-12 (Wind) – Statics on request / DIN EN 1999-1-1/ NA:2018-03 — Dimensioning and design of aluminium frameworks
Mounting rails, triangles	Extruded aluminium EN-AW-6063 T6
Small parts	Stainless steel X5CrNi18-10 A2-70
Colours	Natural aluminium
Warranty	10 years for the durability of the materials

The pre-assembled triangles are folded together in a sturdy box to save space. Up to 252 triangles can be stacked on one Euro-pallet for lower logistics and storage costs.

S:FLEX GmbH Germany • Reinbeker Weg 9 21029 Hamburg Phone +49-(0)40-688 93 17-0 Fax +49-(0)40-688 93 17-99 info@sflex.com www.sflex.com