

TRITEC

ENERGY FOR A BETTER WORLD

TRI-FLAT EASYGREEN

A simple green roof system with a wide range of possibilities.

- simple
- quick
- efficient

The main advantages:

- Quick installation thanks to pre-assembled components
- Low point load – protects sensitive green roof structures
- Tension-free installation thanks to integrated tilt joints

www.tritec-energy.com

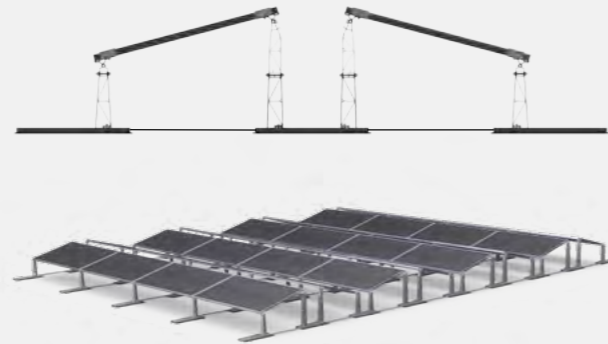
TRI-FLAT EASYGREEN

Smart PV flat-roof mounting system for flexible green roof installations

Innovation that really stands out.

The TRI-FLAT Easygreen is an aerodynamically optimised flat-roof mounting system for solar installations on green roofs, combining the stability of a rail system with the flexibility of a panel system.

With just a few components, it enables quick installation and the implementation of various configurations. The system guarantees secure fastening and long-term reliability.



Outstanding benefits that you can enjoy.

Optimal load distribution

- Large base plates with permanently bonded fleece
- Cost-effective ballasting for minimal point loads and even load distribution
- Non-penetrating ballasting

Ideal for green roofs

- Ideally suited for retrofitting on existing green roofs
- No penetration of the roof membrane – fully preserves the roof waterproofing
- Low point load – protects sensitive green roof structures

Safe design

- Structural reliability verified by stability analysis
- Excellent wind load resistance optimised through wind tunnel testing
- Compressive strength in the heavy-duty version $\leq 5.76 \text{ kN/m}^2$

Lightning current carrying capacity and equipotential bonding

- Reliable dissipation of lightning currents up to 50 kA and equipotential bonding tested and certified by a DAkkS-accredited testing body

Flexible

- Voltage-free installation thanks to integrated tilting joints
- Compatible with various module sizes and module types
- Heavy-duty version for high loads and demanding conditions

Simple and straightforward

- Compact components for efficient transport, space-saving storage and easy handling
- Simple installation using just one tool
- Pre-assembly possible even without modules, thanks to the assembly jig

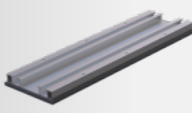
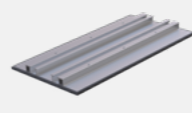
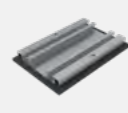








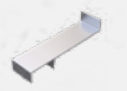
Quality you can rely on

- With the TRI-FLAT Easygreen mounting system, you can rely on the highest quality standards. This is confirmed by recognised testing bodies through their certification.



THE SYSTEM COMPONENTS

An overview of all components

 <p>TRI-FLAT Easyspeed 2.0 base plate 140</p> <p>Standard</p> <p>Base plate 140 x 480 mm • item no.: 1503300 Base plate 140 x 725 mm • item no.: 1503501</p>	 <p>TRI-FLAT Easyspeed 2.0 base plate 240</p> <p>Standard</p> <p>Base plate 240 x 480 mm • item no.: 1503302 Base plate 240 x 725 mm • item no.: 1503503</p>	 <p>TRI-FLAT Easyspeed 2.0 shim</p> <p>Standard</p> <p>• item no.: 1503504</p>	 <p>TRI-FLAT Easyspeed 2.0 profile holder</p> <p>Standard</p> <p>• item no.: 1503514</p>
 <p>TRI-FLAT Easyspeed 2.0 centre clamp 30-40</p> <p>Standard</p> <p>• item no.: 1503508</p>	 <p>TRI-FLAT Easyspeed 2.0 end clamp</p> <p>Standard</p> <p>• 30 mm black, item no.: 1503509</p>	 <p>TRI-FLAT Easygreen small raiser</p> <p>Standard</p> <p>• item no.: 1503521</p>	 <p>TRI-FLAT Easygreen large raiser</p> <p>Standard</p> <p>• item no.: 1503522</p>
 <p>TRI-FLAT Easyspeed 2.0 Cross-section</p> <p>Standard</p> <p>Cross-section 1980 for module lengths up to 1800 mm • item no.: 1503510 Cross-section 2600 for module lengths up to 2441 mm • item no.: 1503511 Cross-section 3700 for 2 module lengths up to 1762 mm • item no.: 1503512 Cross-section 6300 for bespoke solutions • item no.: 1503513</p>	 <p>TRI-FLAT Easyspeed 2.0 H-rail</p> <p>Standard</p> <p>H-rail 1100 for module widths of 990-1200 mm • item no.: 1503515 H-rail 1300 for module widths of 1200-1400 mm • item no.: 1503516</p>	 <p>TRI-FLAT Easyspeed Ballast tray gravel 2025 / 2225 / 2475</p> <p>Optional</p> <p>Ballast tray 2025 • item no.: 1503325 Ballast tray 2225 • item no.: 1503326 Ballast tray 2475 • item no.: 1503327</p>	 <p>TRI-FLAT Easyspeed Ballast tray 2025 / 2225 / 2475</p> <p>Optional</p> <p>Ballast tray 2025 • item no.: 1503321 Ballast tray 2225 • item no.: 1503322 Ballast tray 2475 • item no.: 1503323</p>
		 <p>TRI-FLAT Easyspeed 2.0 Ballast brace</p> <p>Optional</p> <p>• item no.: 1503519</p>	 <p>TRI-FLAT Easyspeed 2.0 Ballast clip</p> <p>Optional</p> <p>• Item no.: 1503518</p>

SYSTEM OVERVIEW

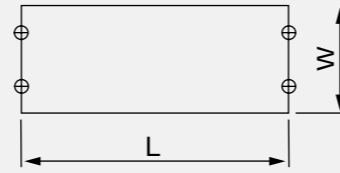
Short-side clamping

Quick assembly, reduced material costs, cost-effective solution

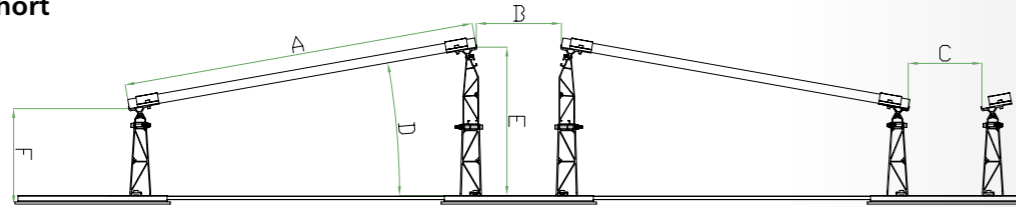
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short - short - short	990 – 1500	~ 275	~ 172	7,7° – 12°	~ 505	~ 307
short - short - long	990 – 1500	~ 275	~ 512	7,7° – 12°	~ 505	~ 307
short - long - short	990 – 1500	~ 615	~ 172	7,7° – 12°	~ 505	~ 307
short - long - long	990 – 1500	~ 615	~ 512	7,7° – 12°	~ 505	~ 307

* Depends on the mounting angle, ** Depends on the module width

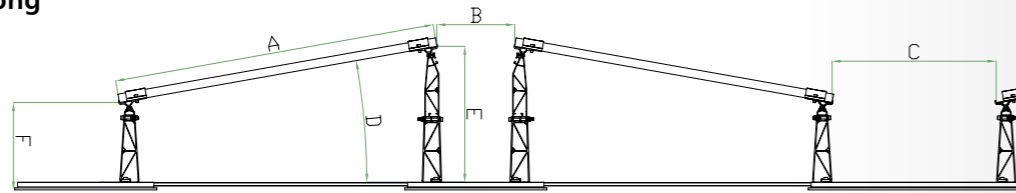
Clamping positions on the short side



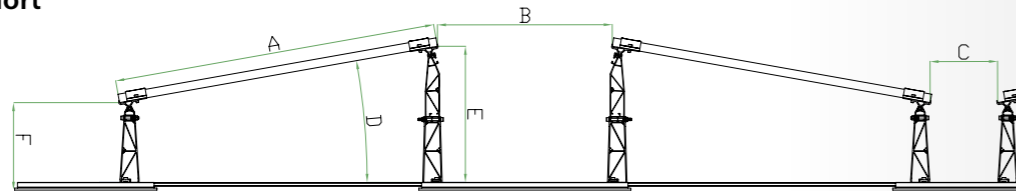
Row spacing short - short - short



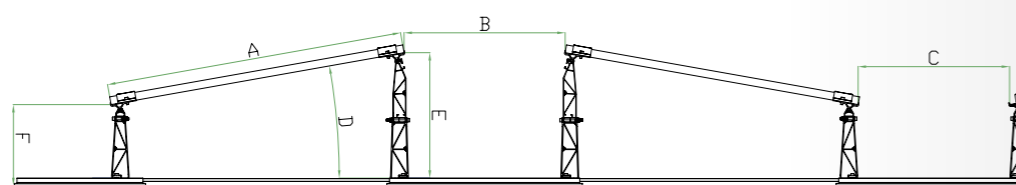
Row spacing short - short - long



Row spacing short - long - short



short - long - long



SYSTEM OVERVIEW

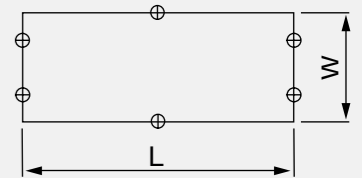
Heavy-duty clamping

Enhanced stability, the most robust system design, quarter-point clamping, high snow and wind loads

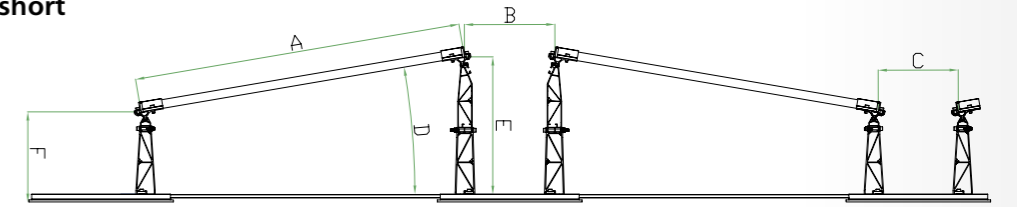
Row spacing	A (mm)	B (mm)	C (mm)	D** (mm)	E* (mm)	F* (mm)
short - short - short)	990 – 1500	~ 313	~ 267	7,7° – 12°	~ 502	~ 311
short - short - long	990 – 1500	~ 313	~ 607	7,7° – 12°	~ 502	~ 311
short - long - short	990 – 1500	~ 653	~ 267	7,7° – 12°	~ 502	~ 311
short - long - long	990 – 1500	~ 653	~ 607	7,7° – 12°	~ 502	~ 311

* Depends on the mounting angle, ** Depends on the module width

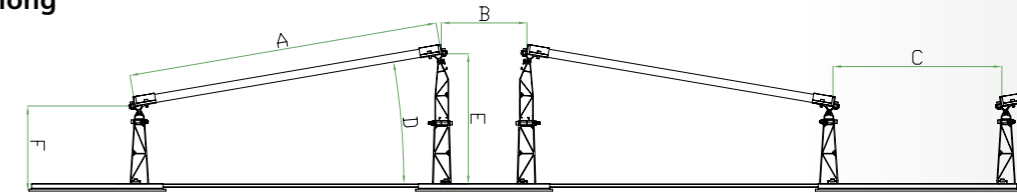
Clamping positions Heavy Duty



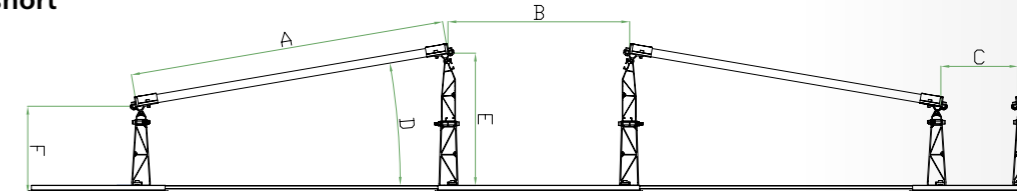
Row spacing short - short - short



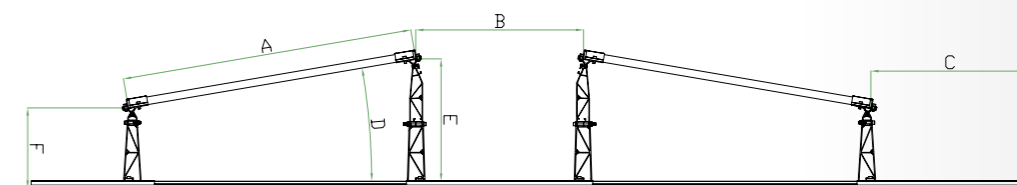
Row spacing short - short - long



Row spacing short - long - short



short - long - long



LEARN MORE

Technical specifications

TRITEC

Description	Modular hybrid panel system for framed solar modules on green flat roofs	
Usage	Green roofs, membrane roofs and bitumen roofs, concrete and gravel roofs	
Roof pitch	0° - 5°	
Modules	Type:	Framed modules
	Dimensions:	Width: 900 – 1500 mm Length: 1500 – 2500 mm
	Orientation:	Horizontal
	Field size	Max. 20 x 25 metres Min. 4 double modules (2 double modules for cantilevered installations) ~10° (typically 9–12°, depending on module width)
Distances	Roof surface:	~ 300 mm
	Roof edge:	Min. 600 mm
Loads	Wind:	Up to 3.00 kN/m ² (suction load)
	Snow:	Up to 5.76 kN/m ²
Design / Structural analysis	Software based on wind tunnel tests and building standards	
Site-specific requirements	The client must ensure that the roof structure and the building's load-bearing framework have sufficient structural capacity, and that the roof assembly has sufficient compressive strength. The general terms and conditions of business and warranty, as well as the usage agreement, apply. The client must also verify that the modules have been approved.	
Screw assembly	M8 (A2-70)	
Torque	Max. 15 Nm	
Components	Module clamps with earthing pins, base plates, supports, longitudinal and transverse connecting rails (H-rails & cross-sections), profile holders, ballast trays, gravel trays, ballast clips, ballast clips	
Material	Load-bearing connecting parts: aluminium EN AW 6063 T66 and EN AW 6005A T6; module clamps: aluminium EN AW 6063 T66; screws: stainless steel A2-70; wind deflectors and ballast trays: steel with aluminium-zinc coating; fleece: polyester needle felt	

* depending on the system configuration and the PV modules used

The optimal mounting solution for every roof

TRITEC mounting systems combine nearly 40 years of photovoltaic experience. Our own products TRI-STAND, TRI-ROOF+, TRI-CLIP Ready, TRI-FLAT Easyspeed and Easygreen offer optimum PV mounting solutions for the various requirements of different roof types and alignments. We attach great importance to the high-quality processing of the components as well as to the durability of the substructure.

For further information on our products and services, please visit our website at www.tritec-energy.com or our online shop at shop.tritec-energy.com.

You can also contact our experts directly at any time, who will be happy to answer any questions you may have.



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