TRITEC

ENERGY FOR A BETTER WORLD

TRI-STAND
EARTHING SYSTEMS

TRITEC earthing components for pitched roof PV systems.



- simple
- secure
- efficient

The main advantages:

- Effective earthing systems for optimum safety of PV systems on pitched roofs
- High-quality materials and robust construction for efficient protection
- Simple, quick and efficient installation
- Optimum design for different systems
- Suitable for all common TRITEC rooftop systems

www.tritec-energy.com

VARIANTS OF EARTHING SYSTEMS

How to ensure efficient safety

An effective earthing system is essential for the safety of photovoltaic systems on pitched roofs. Our TRI-STAND earthing components offer a reliable solution that has been specially developed for the requirements of mounting solar modules. Thanks to high-quality materials and robust construction, they guarantee the necessary safety and durability under various conditions.

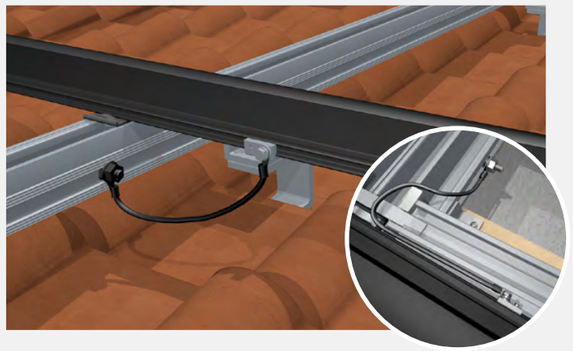
Earthing systems for different variants



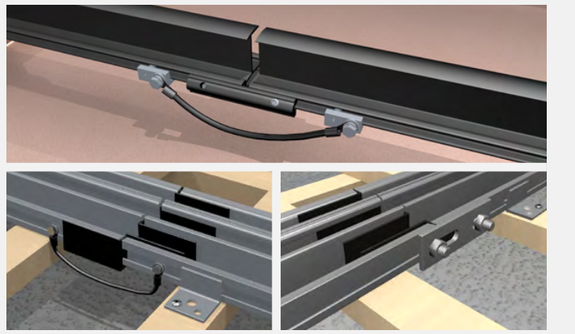
Earthing of vertical profiles in 2-layer insertion systems: The vertical profiles are connected to one another using round wire and TS earthing clamps.
Note for in-roof installations: the round wire should preferably be routed above the inlet plate at the foot end.



Earthing of profile runs in single-layer systems
Insertion systems: The round wire is inserted vertically once into the earthing terminal of the TS earthing set 4 and fitted.
Clamping system: The round wire is fitted vertically once to the profiles using TS earthing terminals.



Earthing of the cross-bracing in two-layer systems
Each TS insertion profile is connected to a vertical UP-X/IP profile using a TS earthing set 3 to ensure reliable earthing.



Earthing of TS/IP rail joints
Single-layer inlay systems: TS inlay profiles are connected and earthed at the rail joint using the TS Earthing Set 1.
TRI-ROOF+ in-roof system: When installed on roof battens, the IP rail joints are connected and earthed at each joint using TS earthing set 2. -> When installed on cross-beams (purlins) with a flat connector fitted at the side, earthing set 2 is not required.

THE EARTHING COMPONENTS

Safe and quick installation with few components

TRITEC earthing systems for single-layer and double-layer PV systems are suitable for various roof types and ensure reliable earthing with just a few components. The use of high-quality materials and a well thought-out design ensure compliance with current safety standards and minimise the risk of electrical faults.

Earthing components for 2-layer PV insertion systems



Aluminium round wire*
Standard
- Item no.: 1350051
- 1x per PV surface horizontally installed



TS earthing terminal for UP- and IP base rail*
Standard
- Item no.: 1350052
- 1x per vertical profile strand



Earthing terminal UNI
Standard
- Item no.: 1350062
- 1x per PV area



TRI-ROOF+ Flachverbinder
Standard
- Item no.: 1502308



TS earthing set 2 (connection IP rail joint for in-roof)**
Standard
- Item no.: 1350021
- 1x per vertical rail step



TS earthing set 3 (connection TS rail track with vertical profile)**
Standard
- Item no.: 1350022
- 1 x per TS-profile rail section

Earthing components for 1-layer PV insertion systems



Aluminium round wire*
Standard
- Item no.: 1350051
- 1x per PV surface installed vertically



Earthing terminal UNI
Standard
- Item no.: 1350062
- 1x per PV area



TS earthing set 1 (TS rail joint connection)
Standard
- Item no.: 1350020
- 1x per horizontal rail step



TS earthing set 4 (connection TS rail strands to each other)
Standard
- Item no.: 1350053
- 1x per TS track

Earthing components for 1-layer PV clamping systems



Aluminium round wire*
Standard
- Item no.: 1350051
- 1x per PV surface installed vertically



TS earthing terminal for UP- and IP base rail*
Standard
- Item no.: 1350052
- 1x per vertical profile strand



Earthing terminal UNI
Standard
- Item no.: 1350062
- 1x per PV area

* For anodised profiles, it may be necessary to remove the anodised layer at the contact points to ensure electrical conductivity.
** The following accessories from the regular range are required for fastening: Hammer head screws and lock nuts.

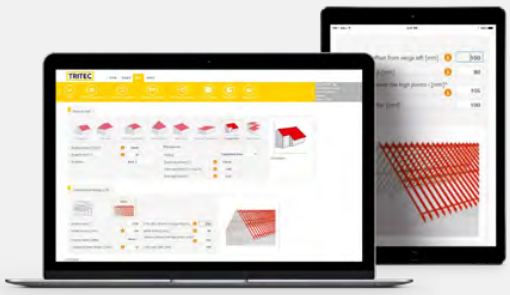
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Videos, planning and contact



Simply scan the QR code or visit the following the following link for more information about our PV mounting systems.

https://www.tritec-energy.com/en/pv-mounting-systems/



Just scan the QR code or visit the following link to watch the training video on our TRI-DESIGN planning software.

https://www.youtube.com/watch?v=S9WGviC8x2I

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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