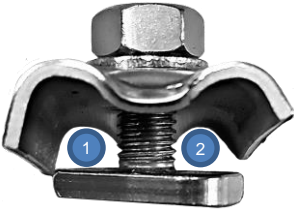
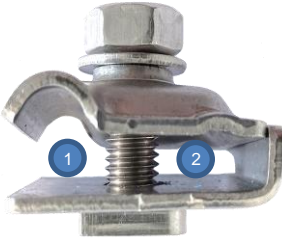




Leaflet PV mounting system MSP-PR Potential equalisation

Electrical potential equalisation can be ensured in the pitched roof as follows:

By using the conductive terminals (art. no. 23107, 23108, 23109, 23110, VDE tested, Report: COTR_10272_2024-40169-20240521) an electrical connection is established from the module frame into the substructure. The conductive terminals are used in the same way as the standard module clamps (item no. 22331, 22623, 22624, 22625) are installed.

For complete potential equalisation, all substructure components that are not connected via a module must be connected to each other. An earthing terminal set (art. no. 21965, 22963) can be used for this purpose. Support profiles with dilatation joints must also be connected to each other.

21965 Grounding clamps MSP-PR-GCA	22963 Grounding clamps set MSP-PR-GCC
	
For aluminium ladders	For copper conductors
Fit 1 (solid): \varnothing 8 mm Fit 2 (solid): \varnothing 6 - 8 mm	Fit 1 (solid): \varnothing 6 - 8 mm Fitting 2 (single/multi-wire): \varnothing 2.8 - 8 mm / corresponds to: 6 - 50 mm ²
The grounding clamps must be positioned on the supporting structure in such a way that collisions, e.g. with the underside of the PV module, are ruled out, even taking into account the resulting snow loads.	
	
<ul style="list-style-type: none"> • The hammer-head bolt is interlocked in the groove of the support profile so that the grounding clamp clamps the conductor(s) when the M8 nut is tightened. • Stripped and bare conductors must be used to ensure conductivity. • The M8 screw must be tightened to a torque of 20 Nm. 	

Example: For horizontal horizontal rails, every second horizontal rail must be connected to each other.

Special case standing seam roof: When using the MSP-PR-SC 70 sheet-metal seam clamp, an electrical connection is also established in the substructure. To ensure potential equalisation between the roof and the substructure, at least one of the rails in the field must be connected separately to the roof.

Special case inlay: As no module clamps are used in the inlay system, it is necessary to establish potential equalisation by other means if required.

Trapezoidal sheet metal roof: A connection between the roof and the substructure cannot be guaranteed. To ensure potential equalisation between the roof and substructure, at least one of the rails in the field must be connected separately to the roof.