

TRI-VENT mounting system For trapezoidal sheet roofs

The mounting system

The development of the TRI-VENT mounting system particularly emphasised great flexibility, good installation features and great safety. The system was specifically designed for the installation of solar systems on trapezoidal sheet roofs and combines the above benefits into a professional solution.

Greatest flexibility

The different components of the system allow the installation on almost any trapezoidal roof. Due to the TRI-VENT support profiles with their different lengths and several drill holes at intervals of 90 mm to 350 mm, the system can be used for all roof types. The two versions of the TRI-VENT module armatures can accommodate modules with frame strengths of 35 mm, 40 mm, 46 mm and 50 mm. Additionally, the system allows for the solar modules to be installed vertically and horizontally.

Extremely easy installation

The complete system can be installed on the roof as simply as possible and with a minimum number of tools. Having measured the roof and drilled the holes, the TRI-VENT support profiles are riveted to the roof. Then the modules are inserted, followed by the module armatures, and then they are secured at the end of each row, using the TRI-VENT bending tool. Tiresome screwing in is completely dispensed with. The short profiles and easy-to-handle components enable the simple and easy transport of the system to and onto the roof, thus saving energy, time and money.

Best safety

The system, designed for wind and snow loads, provides best stability and safety even in extreme weather conditions. Each module is secured against slipping with the TRI-VENT retaining rings of the mounting system. The support profiles, bent with the TRI-VENT bending tool, give additional stability to the system and prevent the slipping of all modules.



The TRI-VENT support profiles are only riveted to the roof at the points required by the module installation.







The few components of the TRI-VENT mounting system enable the easy, quick and safe installation.

MOUNTING SYSTEMS – COMPONENTS Trapezoidal Sheet System

Art. No.	1502634	1502635	1502360	1502659	1502361
Model	TRI-VENT end module armature (31 and 42 mm)	TRI-VENT end module armature (34 and 45 mm)	TRI-VENT end module armature (35 and 46 mm)	TRI-VENT end module armature (38 and 48 mm)	TRI-VENT end module armature (40 and 50 mm)
Frame thickness	31 / 42 mm	34 / 45 mm	35 / 46 mm	38 / 48 mm	40 / 50 mm
Module brand (examples)	SolarWorld	SolarWorld, Hareon Solar, Jinko, JA Solar	Sanyo, Solarfabrik, Würth Solar, Canadian Solar, DAY4 Energy, GE Energy, Mitsubishi Heavy Industries, Solara, Solarfun Power, Suntech Power, Viessmann, Kyocera, Sharp, Sunpower, Chaori, Kaneka, Mitsubishi Electric, MSK, Sanyo Electric, Shanghai Chaori Solar Energy, Vaillant	REC	Isofoton, Topsolar, Bisol, Canadian Solar, Kaneka, MSK, Siliken Schott, Yingli, Aleo, BP Solar, Unisolar, EGing, Advent Solar, Aleo Solar, Atersa, MDT technologies, Solara, Solarfabrik, Solarwatt, Sunlink PV, Suntech Power, Sunways Photovoltaic, Vaillant, Viessmann
Dimensions (L / W / H)	46 mm / 30 mm / 30 mm	49 mm / 30 mm / 30 mm	50 mm / 30 mm / 30 mm	58 mm / 30 mm / 30 mm	60 mm / 30 mm / 30 mm
Weight	0.040 kg	0.040 kg	0.040 kg	0.040 kg	0.040 kg
Application	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof
Art. No.	1502636	1502637	1502362	1502660	1502363
Model	TRI-VENT middle module armature (31 and 42 mm)	TRI-VENT middle module armature (34 and 45 mm)	TRI-VENT middle module armature (35 and 46 mm)	TRI-VENT middle module armature (38 and 48 mm)	TRI-VENT middle module armature (40 and 50 mm)
Frame thickness	31 / 42 mm	34 / 45 mm	35 / 46 mm	38 / 48 mm	40 / 50 mm
Module brand (examples)	SolarWorld	SolarWorld, Hareon Solar, Jinko, JA Solar	Sanyo, Solarfabrik, Würth Solar, Canadian Solar, DAY4 Energy, GE Energy, Mitsubishi Heavy Industries, Solara, Solarfun Power, Suntech Power, Viessmann, Kyocera, Sharp, Sunpower, Chaori, Kaneka, Mitsubishi Electric, MSK, Sanyo Electric, Shanghai Chaori Solar Energy, Vaillant	REC	Isofoton, Topsolar, Bisol, Canadian Solar, Kaneka, MSK, Siliken Schott, Yingli, Aleo, BP Solar, Unisolar, EGing, Advent Solar, Aleo Solar, Atersa, MDT technologies, Solara, Solarfabrik, Solarwatt, Sunlink PV, Suntech Power, Sunways Photovoltaic, Vaillant, Viessmann
Dimensions (L / W / H)	46 mm / 20 mm / 20 mm	49 mm / 20 mm / 20 mm	50 mm / 20 mm / 20 mm	58 mm / 20 mm / 20 mm	60 mm / 20 mm / 20 mm
Weight	0.026 kg	0.026 kg	0.026 kg	0.026 kg	0.026 kg
Application	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof
Art. No.	1502364	1502365	1502366	1502367	1502368
Model	TRI-VENT module armature plate (end and middle)	TRI-VENT support profile 070	TRI-VENT support profile 090 - 150	TRI-VENT support profile 180 - 240	TRI-VENT support profile 235 - 295
Frame thickness	-	-	-	-	-
Module brand (examples)	All framed modules	All framed modules	All framed modules	All framed modules	All framed modules
Dimensions (L / W / H)	50 mm / 40 mm / 30 mm	100 mm / 60 mm / 30 mm	230 mm / 60 mm / 30 mm	320 mm / 60 mm / 30 mm	385 mm / 60 mm / 30 mm
Weight	0.016 kg	0.077 kg	0.177 kg	0.246 kg	0.289 kg
Application	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof

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Trapezoidal Sheet System MOUNTING SYSTEMS – COMPONENTS

Art. No.	1502369	1502370	1502371	1502372	1502378
					
Model	TRI-VENT support profile 290 - 350	TRI-VENT rubber seal (2 per support profile)	TRI-VENT sealing rivets (2 per support profile)	TRI-VENT retaining rings (2 per module)	TRI-VENT edge clip
Frame thickness	-	-	-	-	-
Module brand (examples)	All framed modules	All framed modules	All framed modules	All framed modules	All framed modules
Dimensions (L / W / H)	430 mm / 60 mm / 30 mm	30 mm / 20 mm / 1 mm	50 mm / 5 mm / 5 mm	30 mm / 30 mm / 2 mm	18 mm / 15 mm / 11 mm
Weight	0.331 kg	0.002 kg	0.004 kg	0.010 kg	0.001 kg
Application	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof	Trapezoidal sheet roof
Accessories					
Art. No.	Model	Description	Dimensions (L / W / H)	Weight	
1502373	TRI-VENT drilling gauge	For the measuring of the TRI-VENT system	2000 mm / 1000 mm / 100 mm	2.5 kg (approx.)	
1502374	TRI-VENT bending tool	Special tool for horizontal fixing	300 mm / 30 mm / 30 mm	0.5 kg (approx.)	
1502379	TRI-VENT riveting machine PowerBird, (rivet 6.3 mm)	TRI-VENT accessories, rivet diameter 6.3 mm	500 mm / 500 mm / 100 mm	4.2 kg (approx.)	
1502408	TRI-VENT PowerBird rechargeable battery 12V 2A	TRI-VENT accessories, rivet diameter 6.3 mm	100 mm / 100 mm / 100 mm	1.2 kg (approx.)	