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Oplossingen met Aluminium Profielen.

ROOF-STAND mounting system
For pitched roofs, flat roofs and fronts

ROOF-STAND – The mounting system

The development of the new mounting system ROOF-STAND is based on well-founded know-how and years of practical experience. The knowledge gained from the implementation of numerous solar systems resulted in a mounting system that is ideally suited for
all applications – from small stand-alone systems to large grid-connected systems, on pitched and flat roofs as well as fronts.

Insertion profile TS – The aluminium profile

The insertion profile TS of the ROOF-STAND mounting
system allows the easy, quick and thus efficient installation of all popular framed solar modules. After the insertion of the modules into the aluminium profile, the modules are held in place by their own weight and friction. The photovoltaic modules do not need to be screwed in.

Universal profiles UP / UP-L / UP-S – The base profiles

The universal profiles UP, UP-L and UP-S are the basic profiles of the ROOF-STAND mounting system. The universal profile UP is used for standard systems. For applications with low static stresses the universal profile UP-L is used, however for great static stresses UP-S. The revolutionary design of the universal profiles allows for two types of installation: the easy to install insertion system with cross bracing and the insertion profile TS or the cost-effective clip system with middle and end clips. – The choice is yours.

SafeClick SC – The secure connector

SafeClicks connect the universal profiles of the ROOF-STAND mounting system securely and easily with
its insertion profiles. The practical design of the SafeClick allows easy installation by simply clicking in the insertion profiles. Drilling is not necessary.

Middle rail TS-M – The optimal reinforcement

In the case of vertical module insertion and acceptance of pressures of more than 2400 N/m², some module manufacturers specify the use of a middle support. The ROOF-STAND middle rail TS-M is specifically designed
for the mounting system and the ideal support for all popular modules.

Insertion of modules into the cross bracing of profiles – the stable and installation-friendly version for pitched roofs.

The upright installation represents the more flexible and installation-friendly version for flat roofs, which can compensate for any unevenness.

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~~Art.~~ No.	1502693	1502622	1502199	1502694	1502200
					
Model	ROOF-STAND insertion profile TS-31, 3.000 m, blank aluminium	ROOF-STAND insertion profile TS-31, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-34, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-35, 3.000 m, blank aluminium	ROOF-STAND insertion profile TS-35, 6.000 m, blank aluminium
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	31 mm	31 mm	34 mm	35 mm	35 mm
Module brand (examples)	SolarWorld	SolarWorld	SolarWorld, Isofoton, Naps Systems, Solartec	Sanyo, Solarfabrik, Würth Solar, Canadian Solar, DAY4 Energy, GE Energy, Mitsubishi Heavy Industries, Solara, Solarfun Power, Suntech Power, Viessmann	Sanyo, Solarfabrik, Würth Solar, Canadian Solar, DAY4 Energy, GE Energy, Mitsubishi Heavy Industries, Solara, Solarfun Power, Suntech Power, Viessmann
Dimensions (L / W / H)	3000 mm / 54 mm / 47 mm	6000 mm / 54 mm / 47 mm	6000 mm / 54 mm / 50 mm	3000 mm / 54 mm / 51 mm	6000 mm / 54 mm / 51 mm
Weight *	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502695	1502201	1502696	1502202	1502697
					
Model	ROOF-STAND insertion profile TS-40, 3.000 m, blank aluminium	ROOF-STAND insertion profile TS-40, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-42, 3.000 m, blank aluminium	ROOF-STAND insertion profile TS-42, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-45, 3.000 m, blank aluminium
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	40 mm	40 mm	42 mm	42 mm	45 mm
Module brand (examples)	Isofoton, Topsolar, Bisol, Canadian Solar, Kaneka, MSK, Siliken	Isofoton, Topsolar, Bisol, Canadian Solar, Kaneka, MSK, Siliken	Kaneka, Five Star Energy, Ibersolar Energia, MDT technologies, Scheuten Solar Technology, Solon	Kaneka, Five Star Energy, Ibersolar Energia, MDT technologies, Scheuten Solar Technology, Solon	Hareon Solar, Jinko, JA Solar
Dimensions (L / W / H)	3000 mm / 54 mm / 56 mm	6000 mm / 54 mm / 56 mm	3000 mm / 54 mm / 58 mm	6000 mm / 54 mm / 58 mm	3000 mm / 54 mm / 61 mm
Weight *	1.2 kg	1.2 kg	1.2 kg	1.2 kg	1.2 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502661	1502699	1502203	1502700	1502204
					
Model	ROOF-STAND insertion profile TS-45, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-46, 3.000 m, blank aluminium	ROOF-STAND insertion profile TS-46, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-50, 3.000 m, blank aluminium	ROOF-STAND insertion profile TS-50, 6.000 m, blank aluminium
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	45 mm	46 mm	46 mm	50 mm	50 mm
Module brand (examples)	Hareon Solar, Jinko, JA Solar	Kyocera, Sharp, Sunpower, Chaori, Kaneka, Mitsubishi Electric, MSK, Sanyo Electric, Shanghai Chaori Solar Energy, Vaillant	Kyocera, Sharp, Sunpower, Chaori, Kaneka, Mitsubishi Electric, MSK, Sanyo Electric, Shanghai Chaori Solar Energy, Vaillant	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	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)	6000 mm / 54 mm / 61 mm	3000 mm / 54 mm / 62 mm	6000 mm / 54 mm / 62 mm	3000 mm / 54 mm / 66 mm	6000 mm / 54 mm / 66 mm
Weight *	1.2 kg	1.2 kg	1.2 kg	1.2 kg	1.2 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

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Art. No.	1502707	1502212	1502708	1502653	1502711
					
Model	ROOF-STAND universal profile UP, 3.000 m, blank	ROOF-STAND universal profile UP, 6.000 m, blank	ROOF-STAND universal profile UP-L, 3.000 m, blank	ROOF-STAND universal profile UP-L, 6.000 m, blank	ROOF-STAND universal profile UP-S, 3.000 m, blank
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	Any	Any	Any	Any	Any
Module brand (examples)	Basic profile for all ROOF-STAND insertion profiles	Basic profile for all ROOF-STAND insertion profiles	Basic profile for all ROOF-STAND insertion profiles	Basic profile for all ROOF-STAND insertion profiles	Basic profile for all ROOF-STAND insertion profiles
Dimensions (L / W / H)	3000 mm / 40 mm / 41 mm	6000 mm / 40 mm / 41 mm	3000 mm / 40 mm / 41 mm	6000 mm / 40 mm / 41 mm	3000 mm / 70 mm / 41 mm
Weight *	1.3 kg	1.3 kg	1.0 kg	1.0 kg	1.6 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502213	1502715	1502680	1502714	1502211
					
Model	ROOF-STAND universal profile UP-S, 6.000 m, blank aluminium	ROOF-STAND universal profile UP-TS, 3.000 m, blank aluminium	ROOF-STAND universal profile UP-TS, 6.000 m, blank aluminium	ROOF-STAND middle rail TS-M, 3.000 m, blank aluminium	ROOF-STAND middle rail TS-M, 6.000 m, blank aluminium
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	Any	Any	Any	Any	Any
Module brand (examples)	Basic profile for all ROOF-STAND insertion profiles	Basic profile for all ROOF-STAND insertion profiles	Basic profile for all ROOF-STAND insertion profiles	Middle rail for all ROOF-STAND insertion profiles	Middle rail for all ROOF-STAND insertion profiles
Dimensions (L / W / H)	6000 mm / 70 mm / 41 mm	3000 mm / 54 mm / 41 mm	6000 mm / 54 mm / 41 mm	3000 mm / 85 mm / 17 mm	6000 mm / 85 mm / 17 mm
Weight *	1.6 kg	1.2 kg	1.2 kg	0.8 kg	0.8 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502701	1502623	1502205	1502702	1502206
					
Model	ROOF-STAND insertion profile TS-31, 3.000 m, black	ROOF-STAND insertion profile TS-31, 6.000 m, black	ROOF-STAND insertion profile TS-34, 6.000 m, black	ROOF-STAND insertion profile TS-35, 3.000 m, black	ROOF-STAND insertion profile TS-35, 6.000 m, black
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	31 mm	31 mm	34 mm	35 mm	35 mm
Module brand (examples)	SolarWorld	SolarWorld	SolarWorld, Isofoton, Naps Systems, Solartec	Sanyo, Solarfabrik, Würth Solar, Canadian Solar, DAY4 Energy, GE Energy, Mitsubishi Heavy Industries, Solara, Solarfun Power, Suntech Power, Viessmann	Sanyo, Solarfabrik, Würth Solar, Canadian Solar, DAY4 Energy, GE Energy, Mitsubishi Heavy Industries, Solara, Solarfun Power, Suntech Power, Viessmann
Dimensions (L / W / H)	3000 mm / 54 mm / 47 mm	6000 mm / 54 mm / 47 mm	6000 mm / 54 mm / 50 mm	3000 mm / 54 mm / 51 mm	6000 mm / 54 mm / 51 mm
Weight *	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

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Art. No.	1502703	1502207	1502704	1502208	1502705
					
Model	ROOF-STAND insertion profile TS-40, 3.000 m, black	ROOF-STAND insertion profile TS-40, 6.000 m, black	ROOF-STAND insertion profile TS-42, 3.000 m, black	ROOF-STAND insertion profile TS-42, 6.000 m, black	ROOF-STAND insertion profile TS-46, 3.000 m, black
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	40 mm	40 mm	42 mm	42 mm	46 mm
Module brand (examples)	Isofoton, Topsolar, Bisol, Canadian Solar, Kaneka, MSK, Siliken	Isofoton, Topsolar, Bisol, Canadian Solar, Kaneka, MSK, Siliken	Kaneka, Five Star Energy, Ibersolar Energia, MDT technologies, Scheuten Solar Technology, Solon	Kaneka, Five Star Energy, Ibersolar Energia, MDT technologies, Scheuten Solar Technology, Solon	Kyocera, Sharp, Sunpower, Chaori, Kaneka, Mitsubishi Electric, MSK, Sanyo Electric, Shanghai Chaori Solar Energy, Vaillant
Dimensions (L / W / H)	3000 mm / 54 mm / 56 mm	6000 mm / 54 mm / 56 mm	3000 mm / 54 mm / 58 mm	6000 mm / 54 mm / 58 mm	3000 mm / 54 mm / 62 mm
Weight *	1.2 kg	1.2 kg	1.2 kg	1.2 kg	1.2 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502209	1502706	1502210
			
Model	ROOF-STAND insertion profile TS-46, 6.000 m, black	ROOF-STAND insertion profile TS-50, 3.000 m, black	ROOF-STAND insertion profile TS-50, 6.000 m, black
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	46 mm	50 mm	50 mm
Module brand (examples)	Kyocera, Sharp, Sunpower, Chaori, Kaneka, Mitsubishi Electric, MSK, Sanyo Electric, Shanghai Chaori Solar Energy, Vaillant	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	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)	6000 mm / 54 mm / 62 mm	3000 mm / 54 mm / 66 mm	6000 mm / 54 mm / 66 mm
Weight *	1.2 kg	1.2 kg	1.2 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502712	1502415	1502713	1502654
				
Model	ROOF-STAND universal profile UP, 3.000 m, black	ROOF-STAND universal profile UP, 6.000 m, black	ROOF-STAND universal profile UP-L, 3.000 m, black	ROOF-STAND universal profile UP-L, 6.000 m, black
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	Any	Any	Any	Any
Module brand (examples)	Basic profile for all ROOF-STAND	Basic profile for all ROOF-STAND	Basic profile for all ROOF-STAND	Basic profile for all ROOF-STAND
Dimensions (L / W / H)	3000 mm / 40 mm / 41 mm	6000 mm / 40 mm / 41 mm	3000 mm / 40 mm / 41 mm	6000 mm / 40 mm / 41 mm
Weight *	1.3 kg	1.3 kg	1.0 kg	1.0 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

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Art. No.	1502416	1502739	1502740	1502414
				
Model	ROOF-STAND universal profile UP-S, 6.000 m, black	ROOF-STAND universal profile UP-TS, 6.000 m, black	ROOF-STAND middle rail TS-M, 3.000 m, black	ROOF-STAND middle rail TS-M, 6.000 m, black
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior
Frame thickness	Any	Any	Any	Any
Module brand (examples)	Basic profile for all ROOF-STAND	Basic profile for all ROOF-STAND	Middle rail for all ROOF-STAND	Middle rail for all ROOF-STAND insertion profiles
Dimensions (L / W / H)	6000 mm / 70 mm / 41 mm	6000 mm / 54 mm / 41 mm	3000 mm / 85 mm / 17 mm	6000 mm / 85 mm / 17 mm
Weight *	1.6 kg	1.2 kg	0.8 kg	0.8 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

* - Per meter

Accessories

Art. No.	1502214	1502307	1502215	1502216	1502217
					
Model	ROOF-STAND end bracket	ROOF-STAND end bracket	ROOF-STAND SafeClick SC	ROOF-STAND insertion profile connector TS-C	ROOF-STAND universal profile connector UP-C
Application	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof
Dimensions (L / W / H)	32 mm / 29 mm / 33 mm	32 mm / 29 mm / 33 mm	13 mm / 45 mm / 70 mm	95 mm / 64 mm / 17 mm	120 mm / 51 mm / 41 mm
Weight	0.010 kg	0.010 kg	0.050 kg	0.080 kg	0.130 kg

Art. No.	1502218	1502219	1502222	1502223	1502224
					
Model	ROOF-STAND slide nut M8	ROOF-STAND slide nut M10	ROOF-STAND FlexFix (20 -	ROOF-STAND Z adapter UP-Z	ROOF-STAND spacer UP-D,
Application	Pitched and flat roof	Pitched and flat roof	Flat roof	Pitched and flat roof	Pitched and flat roof
Dimensions (L / W / H)	32 mm / 21 mm / 9 mm	32 mm / 21 mm / 9 mm	65 mm / 40 mm / 35 mm	102 mm / 30 mm / 34 mm	56 mm / 35 mm / 3 mm
Weight	0.010 kg	0.010 kg	0.150 kg	0.200 kg	0.050 kg

Art. No.	1502410	1502225	1502226	1502227	1502228
					
Model	ROOF-STAND spacer UP-D, 6 mm	ROOF-STAND middle clip (31 - 40 mm), blank aluminium	ROOF-STAND middle clip (41 - 50 mm), blank aluminium	ROOF-STAND middle clip (31 - 40 mm), black	ROOF-STAND middle clip (41 - 50 mm), black
Application	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof
Dimensions (L / W / H)	56 mm / 35 mm / 6 mm	70 mm / 35 mm / 27 mm	70 mm / 35 mm / 27 mm	70 mm / 35 mm / 27 mm	70 mm / 35 mm / 27 mm
Weight	0.100 kg	0.100 kg	0.100 kg	0.100 kg	0.100 kg

Art. No.	1502632	1502229	1502230	1502233	1502234
					
Model	ROOF-STAND end clip 31 mm, blank aluminium	ROOF-STAND end clip 34 mm, blank aluminium	ROOF-STAND end clip 35 mm, blank aluminium	ROOF-STAND end clip 40 mm, blank aluminium	ROOF-STAND end clip 42 mm, blank aluminium
Application	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof
Dimensions (L / W / H)	50 mm / 31 mm / 27 mm	50 mm / 34 mm / 27 mm	50 mm / 35 mm / 27 mm	50 mm / 40 mm / 27 mm	50 mm / 42 mm / 27 mm
Weight	0.040 kg	0.040 kg	0.040 kg	0.040 kg	0.040 kg

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Art. No.	1502665	1502235	1502236	1502633	1502237
					
Model	ROOF-STAND end clip 45 mm, blank aluminium	ROOF-STAND end clip 46 mm, blank aluminium	ROOF-STAND end clip 50 mm, blank aluminium	ROOF-STAND end clip 31 mm, black	ROOF-STAND end clip 34 mm, black
Application	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof
Dimensions (L / W / H)	50 mm / 45 mm / 27 mm	50 mm / 46 mm / 27 mm	50 mm / 50 mm / 27 mm	50 mm / 31 mm / 27 mm	50 mm / 34 mm / 27 mm
Weight	0.040 kg	0.040 kg	0.040 kg	0.040 kg	0.040 kg

Art. No.	1502238	1502241	1502242	1502243
				
Model	ROOF-STAND end clip 35 mm, black	ROOF-STAND end clip 40 mm, black	ROOF-STAND end clip 42 mm, black	ROOF-STAND end clip 46 mm, black
Application	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof
Dimensions (L / W / H)	50 mm / 35 mm / 27 mm	50 mm / 40 mm / 27 mm	50 mm / 42 mm / 27 mm	50 mm / 46 mm / 27 mm
Weight	0.040 kg	0.040 kg	0.040 kg	0.040 kg

Art. No.	1502244	1502777	1502245	1502246
				
Model	ROOF-STAND end clip 50 mm, black	ROOF-STAND bending tool	ROOF-STAND cross cable clip block UP-K	ROOF-STAND edge clip TS-EC
Application	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof
Dimensions (L / W / H)	50 mm / 50 mm / 27 mm	292 mm / 18 mm / 6 mm	22 mm / 22 mm / 16 mm	18 mm / 15 mm / 11 mm
Weight	0.040 kg	0.231 kg	0.002 kg	0.001 kg

ROOF-STAND has successfully passed the TÜV tests. Patent applications have been filed for SafeClick and FlexFix. Other ROOF-STAND profile types upon request.

For the insertion system, please comply with the module manufacturer's instructions.

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ROOF-STAND ECO
Aerodynamically optimized mounting system

The mounting system for large flat roofs ROOF-STAND ECO is the logically consistent development of the proven PV mounting system ROOF-STAND. The new mounting system is based on ROOF-STAND components, but is designed especially for efficient use on large flat roofs.

Smaller loads, less costs due to its aerodynamically optimized shape, the mounting system ROOF-STAND ECO offers significant advantages in terms of load and costs. The new PV mounting system puts considerably less weight on roofs than conventional module supports. Compared to the conventional flat roof supports, ROOF-STAND ECO needs at least 50 % less ballast for the installation.

The centerpiece – the TS-F bracket The back of the elevation is clad with a metal sheet that both reduces the dynamic pressure and prevents wind pressure loads on the underside of the modules. The centerpiece is the newly developed TS-F bracket. It is used to attach the module to the bottom profiles and the vertical profiles providing support on the back. The bracket makes the diagonal profile superfluous – and thus saves material costs. Instead, the module is screwed directly onto the mounting holes.

Less shading, more output
Since the PV modules are supported at an angle of 20 degrees, the shading distances reduce and the output per square meter increases. Installing the ROOF-STAND ECO system keeps the roof covering intact. The system is designed for modules with a width of 790 – 810 mm and 990 – 1010 mm. Modules with these dimensions are state-of-the-art. The required back sheets are tail- ored to these dimensions. As a result, customers are spared expensive customized components and benefit from an efficient product.

The ROOF-STAND ECO mounting system – load and cost-optimized.

The TS-F bracket is the centerpiece of the ROOF-STAND ECO mounting system.

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Art. No.	1502730	1502731	1502732	1502733	1502735
					
Model	ROOF-STAND ECO TS-F bracket (6 per module)	ROOF-STAND ECO hexagon set screw M6 x 16 A2	ROOF-STAND ECO threaded plate A2 (4 per module)	ROOF-STAND ECO drilling screw 6.3 x 25 A2	ROOF-STAND ECO wind deflector, 790 - 810 mm
Application	Flat roof	Flat roof	Flat roof	Flat roof	Flat roof
Frame thickness	Any	Any	Any	Any	Any
Module brand	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm
Dimensions (L / W / H)	89 mm / 40 mm / 39 mm	22 mm / 8 mm / 8 mm	40 mm / 14 mm / 5 mm	31 mm / 8 mm / 8 mm	2500 mm / 345 mm / 83 mm
Weight	0.024 kg	0.005 kg	0.010 kg	0.004 kg	2.800 kg
Norms	Wind channel test	Wind channel test	Wind channel test	Wind channel test	Wind channel test

Art. No.	1502736	1502744	1502254	1502737
				
Model	ROOF-STAND ECO wind deflector, 990 - 1010 mm	ROOF-STAND hammer-head screw M10 x 20 A2	ROOF-STAND self-locking nut with serrated bearing surface M10 A4	ROOF-STAND ECO universal profile UP-L, 0.272 m
Application	Flat roof	Flat roof	Flat roof	Flat roof
Frame thickness	Any	Any	Any	Any
Module brand	Module width 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm
Dimensions (L / W / H)	2500 mm / 412 mm / 83 mm	20 mm / 10 mm / 10 mm	8 mm / 10 mm / 10 mm	272 mm / 40 mm / 41 mm
Weight	3.260 kg	0.021 kg	0.011 kg	0.265 kg
Norms	Wind channel test	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	Wind channel test

Art. No.	1502738	1502742	1502743	1502708
				
Model	ROOF-STAND ECO universal profile UP-L, 0.341 m	ROOF-STAND ECO universal profile UP-L, 1.140 m	ROOF-STAND ECO universal profile UP-L, 1.340 m	ROOF-STAND universal profile UP-L, 3.000 m, blank aluminium
Application	Flat roof	Flat roof	Flat roof	Flat roof
Frame thickness	Any	Any	Any	Any
Module brand	Module width 990 - 1010 mm	Module width 790 - 810 mm	Module width 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm
Dimensions (L / W / H)	341 mm / 40 mm / 41 mm	1140 mm / 40 mm / 41 mm	1340 mm / 40 mm / 41 mm	3000 mm / 40 mm / 41 mm
Weight	0.333 kg	1.110 kg	1.308 kg	3.000 kg
Norms	Wind channel test	Wind channel test	Wind channel test	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502653	1502707	1502212	1502711
				
Model	ROOF-STAND universal profile UP-L, 6.000 m, blank aluminium	ROOF-STAND universal profile UP, 3.000 m, blank aluminium	ROOF-STAND universal profile UP, 6.000 m, blank aluminium	ROOF-STAND universal profile UP-S, 3.000 m, blank aluminium
Application	Flat roof	Flat roof	Flat roof	Flat roof
Frame thickness	Any	Any	Any	Any
Module brand	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm
Dimensions (L / W / H)	6000 mm / 40 mm / 41 mm	3000 mm / 40 mm / 41 mm	6000 mm / 40 mm / 41 mm	3000 mm / 70 mm / 41 mm
Weight	6.000 kg	3.900 kg	7.800 kg	4.800 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

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Art. No.	1502213	1502217	1502245	1502246
				
Model	ROOF-STAND universal profile UP-S, 6.000 m, blank aluminium	ROOF-STAND universal profile connector UP-C	ROOF-STAND cross cable clip block UP-K	ROOF-STAND edge clip TS-EC
Application	Flat roof	Flat roof	Flat roof	Flat roof
Frame thickness	Any	Any	Any	Any
Module brand	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm	Module width 790 - 810 mm and 990 - 1010 mm
Dimensions (L / W / H)	6000 mm / 70 mm / 41 mm	120 mm / 51 mm / 41 mm	22 mm / 22 mm / 16 mm	18 mm / 15 mm / 11 mm
Weight	9.600 kg	0.130 kg	0.002 kg	0.001 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

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ROOF-STAND mounting accessories

Roof hooks

For the assembly of substructures first fastenings must be installed at the appropriate grid spacings. On tiled roofs, the roof hooks are attached either directly to the rafter or to distance battens above the rafter. Roof hooks are available for almost any type of tile and are secured by means of seating bolts.

Roof fold clamps

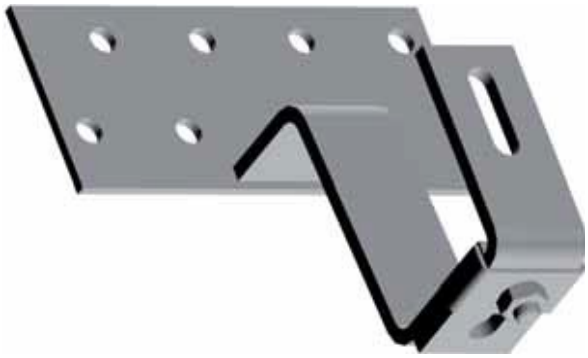
In the case of plate fold roofs, the clamps are installed directly at the fold. The clamps consist of two stainless steel metal sheets, which are bolted together. The roof fold clamps are available in a round version, especially for Kalzip roofs. The substructure can be mounted on the clamps, without disturbing the roof surface.

Hanger bolts

For the installation on a corrugated roof type, the existing screws are replaced by hanger bolts. This secures the corrugated roof, and at the same time the hanger bolts can be used for the installation of the substructure. This provides the base for the installation with a minimum of time and effort.

Renosol plates

For flat roofs, generally Renosol plates are used. The gravel is removed from the required flat roof area, a protective mat or fleece is laid and the Renosol plate is placed on this. Then the ROOF-STAND profiles UP and
UP-S can be riveted directly to the Renosol plate. Finally, the Renosol plates must be weighed down again with gravel, in order to meet the static requirements.



As standard, roof hooks are available in fixed or once adjustable versions and are suited to almost any type of tile.

Using plate fold clamps, the ROOF-STAND profiles can be
attached to the plate fold roof directly.

Art. No.	1502247	1502248	1502249	1502305	1502306
					
Model	ROOF-STAND bracket 90°, without screw	ROOF-STAND bracket 110°, without screw	ROOF-STAND bracket 120°, without screw	ROOF-STAND bracket 150°, without screw	ROOF-STAND bracket 160°, without screw
Application	Flat roof and building exterior	Flat roof and building exterior	Flat roof and building exterior	Flat roof and building exterior	Flat roof and building exterior

Art. No.	1502308	1502250	1502251	1502252	1502253
					
Model	ROOF-STAND flat connector, for stiffening	ROOF-STAND SafeClick basic element	ROOF-STAND lens head screw M8x25 A2	ROOF-STAND retaining washer M8x25 A2	ROOF-STAND round-head screw M10x30 A2
Application	Flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior

Art. No.	1502278	1502254	1502255	1502256	1502280
					
Model	ROOF-STAND round-head screw M10x50 A2	ROOF-STAND self-locking nut with serrated bearing surface M10 A4	ROOF-STAND hammer-head screw M10x30 A2	ROOF-STAND hexagon bolt M10x25 A2	ROOF-STAND cable tie pliers
Application	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior	Pitched roof, flat roof and building exterior

Art. No.	1502257	1502258	1502259	1502260	1502279
					
Model	ROOF-STAND Renosol plate 800x600x35	ROOF-STAND Peel rivet incl. washer, M8 73x6.3	ROOF-STAND Peel rivet without washer, M8	ROOF-STAND washer M8 23x8.4, for Peel rivet	ROOF-STAND rivet gun
Application	Flat roof	Flat roof	Flat roof	Flat roof	Flat roof

Art. No.	1502261	1502264	1502265	1502266	1502267
					
Model	ROOF-STAND hanger bolt	ROOF-STAND hanger bolt	ROOF-STAND hanger bolt	ROOF-STAND roof hook fixed	ROOF-STAND roof hook once variable
Application	Pitched and flat roof	Pitched and flat roof	Pitched and flat roof	Pitched roof	Pitched roof

Art. No.	1502270	1502271	1502272	1502273	1502274
					
Model	ROOF-STAND crown tile roof hook fixed	ROOF-STAND crown tile roof hook once variable	ROOF-STAND slate roof hook fixed	ROOF-STAND slate roof hook once variable	ROOF-STAND trapezoidal plate shoe, with bracket, M10
Application	Pitched roof	Pitched roof	Pitched roof	Pitched roof	Pitched roof

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Art. No.	1502275	1502276	1502277	1502421
				
Model	ROOF-STAND fold clamp for plate fold roof, M10	ROOF-STAND fold clamp for Kalzip roof, M10	ROOF-STAND Zambelli clamp for	ROOF-STAND Zambelli clamp for
Application	Pitched roof	Pitched roof	Pitched roof	Pitched roof

Art. No.	1502281	1502282	1502283	1502284
				
Model	ROOF-STAND seating bolt 8.0x80	ROOF-STAND seating bolt 8.0x120	ROOF-STAND seating bolt 8.0x160	ROOF-STAND seating bolt 8.0x200
Application	Pitched roof	Pitched roof	Pitched roof	Pitched roof

The hanger bolts are available in different lengths to allow the perfect alignment with the existing corrugated roof shape.

The Renosol plates are used for installations on flat roofs and weighed down with gravel for example.

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ROOF-VENT mounting system
For trapezoidal sheet roofs

The mounting system

The development of the ROOF-VENT mounting system particularly emphasised great flexibility, good installa- tion features and great safety. The system was specif- ically designed for the installation of solar systems on trapezoidal sheet roofs and combines the above bene- fits into a professional solution.

Greatest flexibility

The different components of the system allow the installation on almost any trapezoidal roof. Due to the ROOF-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 ROOF-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 ROOF-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 ROOF-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 ROOF-VENT retaining rings of the mounting system. The support profiles, bent with the ROOF-VENT bending tool, give additional stability to the system and prevent the slipping of all modules.

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

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

Art. No.	1502634	1502635	1502360	1502659	1502361
					
Model	ROOF-VENT end module armature (31 and	ROOF-VENT end module armature (34 and	ROOF-VENT end module armature (35 and	ROOF-VENT end module armature (38 and	ROOF-VENT end module armature (40 and
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	ROOF-VENT middle module armature (31 and 42 mm)	ROOF-VENT middle module armature (34 and 45 mm)	ROOF-VENT middle module armature (35 and 46 mm)	ROOF-VENT middle module armature (38 and 48 mm)	ROOF-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	ROOF-VENT module armature plate (end and middle)	ROOF-VENT support profile 070	ROOF-VENT support profile 090 - 150	ROOF-VENT support profile 180 - 240	ROOF-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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Art. No.	1502369	1502370	1502371	1502372	1502378
					
Model	ROOF-VENT support profile	ROOF-VENT rubber seal (2 per support profile)	ROOF-VENT sealing rivets	ROOF-VENT retaining rings (2 per module)	ROOF-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

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ROOF-IN
The flexible roof integration system

Compatibility and flexibility

ROOF-IN offers unlimited freedom when choosing modules: The mounting system is suited for all framed module types of all module manufacturers in the TRITEC range. The simple insertion system was designed to be used independent of the module manufacturer. Thus, framed standard modules can be integrated into the roof. The mounting system is supplied as a complete set. This includes as standard also the edge connection plates, in addition to the profiles and insertion rails. The plates can be adjusted to the respective module size and thus offer the greatest flexibility possible.

Impermeability and resilience

The roof integration system ROOF-IN replaces the existing roofing completely. The bulk of the rain water is discharged from the PV modules. The remaining water is collected and drained off in the specifically developed water-bearing carrier profiles, so that the impermeability of the roof is ensured. All ROOF-IN components are optimally designed for wind and snow loads and are resistant to even extreme weather conditions.

Aesthetics and simplicity

The edge connection plates are made from aluminium and have an anthracite coating. Combined with black anodised insertion profiles and modules with black frames, every roof receives an aesthetically sophisticated PV system. The installation of the modules does not require screws: they are locked into the insertion profiles by gravity. In addition to giving a pleasing visual effect, this also enables the modules to be removed and inserted again during maintenance work.

Quality and safety

We guarantee the highest quality and greatest safety. All profiles and accessories manufactured under the original label ROOF-IN carry a manufacturer's guarantee of 5 years from the date of delivery. This guarantee covers both sound condition and technical efficiency of the products. The system is planned and calculated with extraordinary efficiency using the dimensioning software, thus ensuring optimal design and best safety.

Maximum stability of the mounting system

Simple insertion of the modules

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Art. No.	1502513	1502518	1502523	1502528	1502534
					
Model	ROOF-IN universal profile UP-I, 6.000 m	ROOF-IN universal profile UP-I, 6.000 m, inside milling	ROOF-IN universal profile UP-I, 6.000 m, outside milling	ROOF-IN universal profile UP-I, 6.000 m, double milling	ROOF-IN horizontal profile TR-H, 4.900 m
Application	In-roof	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	6000 mm / 170 mm / 41 mm	6000 mm / 170 mm / 41 mm	6000 mm / 170 mm / 41 mm	6000 mm / 170 mm / 41 mm	4900 mm / 139 mm / 22 mm
Weight *	3.800 kg	3.800 kg	3.800 kg	3.800 kg	1.130 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502544	1502545	1502550	1502551	1502552
					
Model	ROOF-IN fixing clip TR-C	ROOF-IN universal profile retainer TR-U	ROOF-IN ridge plate right FR	ROOF-IN ridge plate centre FM	ROOF-IN ridge plate left FL
Application	In-roof	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	105 mm / 18 mm / 14 mm	45 mm / 35 mm / 15 mm	1230 mm / 560 mm / 88 mm	2480 mm / 557 mm / 88 mm	1230 mm / 560 mm / 88 mm
Weight *	0.010 kg	0.028 kg	1.440 kg	3.000 kg	1.440 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502554	1502555	1502556	1502557	1502558
					
Model	ROOF-IN side plate top right SOR	ROOF-IN side plate top left SOL	ROOF-IN side plate right SR	ROOF-IN side plate left SL	ROOF-IN side plate bottom right SUR
Application	In-roof	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	2480 mm / 300 mm / 40 mm	2480 mm / 300 mm / 40 mm	2330 mm / 285 mm / 40 mm	2330 mm / 285 mm / 40 mm	2330 mm / 285 mm / 40 mm
Weight *	1.520 kg	1.520 kg	1.440 kg	1.440 kg	1.430 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502559	1502560	1502561	1502562	1502622
					
Model	ROOF-IN side plate bottom left SUL	ROOF-IN end plate side AS	ROOF-IN end plate bottom AU	ROOF-IN plate retainer	ROOF-STAND insertion profile TS-31, 6.000 m, blank aluminium
Application	In-roof	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	2330 mm / 285 mm / 40 mm	2480 mm / 285 mm / 45 mm	2480 mm / 285 mm / 45 mm	82 mm / 25 mm / 16 mm	6000 mm / 54 mm / 47 mm
Weight *	1.430 kg	0.500 kg	0.390 kg	0.004 kg	1.100 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

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Art. No.	1502199	1502200	1502201	1502202	1502661
					
Model	ROOF-STAND insertion profile TS-34, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-35, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-40, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-42, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-45, 6.000 m, blank aluminium
Application	In-roof	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	6000 mm / 54 mm / 50 mm	6000 mm / 54 mm / 51 mm	6000 mm / 54 mm / 56 mm	6000 mm / 54 mm / 58 mm	6000 mm / 54 mm / 61 mm
Weight*	1.100 kg	1.100 kg	1.200 kg	1.200 kg	1.200 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502203	1502204	1502623	1502205	1502206
					
Model	ROOF-STAND insertion profile TS-46, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-50, 6.000 m, blank aluminium	ROOF-STAND insertion profile TS-31, 6.000 m, black	ROOF-STAND insertion profile TS-34, 6.000 m, black	ROOF-STAND insertion profile TS-35, 6.000 m, black
Application	In-roof	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	6000 mm / 54 mm / 62 mm	6000 mm / 54 mm / 66 mm	6000 mm / 54 mm / 47 mm	6000 mm / 54 mm / 50 mm	6000 mm / 54 mm / 50 mm
Weight*	1.200 kg	1.200 kg	1.100 kg	1.100 kg	1.100 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502207	1502208	1502209	1502210	1502211
					
Model	ROOF-STAND insertion profile TS-40, 6.000 m, black	ROOF-STAND insertion profile TS-42, 6.000 m, black	ROOF-STAND insertion profile TS-46, 6.000 m, black	ROOF-STAND insertion profile TS-50, 6.000 m, black	ROOF-STAND middle rail TS-M, 6.000 m, blank aluminium
Application	In-roof	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	6000 mm / 54 mm / 56 mm	6000 mm / 54 mm / 58 mm	6000 mm / 54 mm / 62 mm	6000 mm / 54 mm / 66 mm	6000 mm / 85 mm / 17 mm
Weight*	1.200 kg	1.200 kg	1.200 kg	1.200 kg	0.800 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502214	1502307	1502215	1502216
				
Model	ROOF-STAND end bracket TS-E, blank aluminium	ROOF-STAND end bracket TS-E, black	ROOF-STAND SafeClick SC	ROOF-STAND insertion profile connector TS-C
Application	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	32 mm / 29 mm / 33 mm	32 mm / 29 mm / 33 mm	13 mm / 45 mm / 70 mm	95 mm / 64 mm / 17 mm
Weight*	0.010 kg	0.010 kg	0.050 kg	0.080 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

Art. No.	1502217	1502777	1502245	1502246
				
Model	ROOF-STAND universal profile connector UP-C	ROOF-STAND bending tool	ROOF-STAND cross cable clip block UP-K	ROOF-STAND edge clip TS-EC
Application	In-roof	In-roof	In-roof	In-roof
Dimensions (L / W / H)	120 mm / 51 mm / 41 mm	292 mm / 18 mm / 6 mm	22 mm / 22 mm / 16 mm	18 mm / 15 mm / 11 mm
Weight*	0.130 kg	0.231 kg	0.002 kg	0.001 kg
Norms	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV	IEC 61215 ed. 2 (10.16), TÜV

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* - Per meter

Accessories

Art. No.	Model	Description
1502563	ROOF-IN gland 4.0 x 35 A2, drill bit	For ROOF-IN Mounting System edge cover
1502564	ROOF-IN roof connecting tape Perform, 4 m x 45 cm	For ROOF-IN Mounting System edge cover
1502565	ROOF-IN special adhesive for ridge plates	For ROOF-IN Mounting System edge cover
1502566	ROOF-IN adhesive for roof connecting tape Perform	For ROOF-IN Mounting System edge cover
1502567	ROOF-IN adhesive tape FLEX-DICHT 3D	For ROOF-IN Mounting System edge cover
1502546	ROOF-IN Z adapter TR-Z	For ROOF-IN Mounting System edge cover
1502547	ROOF-IN round head screw 5.0 x 30 A2, for TR-U	For ROOF-IN Mounting System edge cover
1502548	ROOF-IN round head screw 3.0 x 30 A2, for retainer	For ROOF-IN Mounting System edge cover
1502549	ROOF-IN hammer-head screw M10 x 20 A2	For ROOF-IN Mounting System edge cover
1502553	ROOF-IN ridge plate joint cover FS	For ROOF-IN Mounting System edge cover
1502640	ROOF-IN hexagon set screw M10 x 25 A2	For ROOF-IN Mounting System edge cover
1502646	ROOF-IN stainless steel rivet 3.2 x 6, for sheets	For ROOF-IN Mounting System edge cover
1502647	ROOF-IN drill 3.3 mm for stainless steel rivet	For ROOF-IN Mounting System edge cover
1502648	ROOF-IN collar sealing strip	For ROOF-IN Mounting System edge cover

Clean edge finish of the system

Optimal and aesthetically pleasing integration of the system into the roof