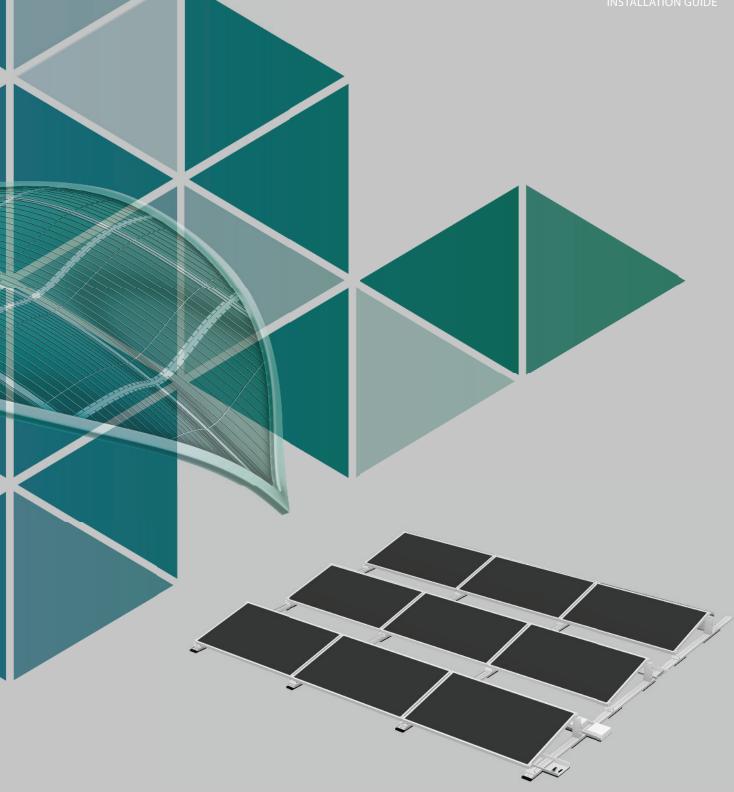


FixGrid18



Installation manual for simple alignment (e.g. south)

Tools needed	Tape measure, screwdriver with TX drive T40 bit (module assembly) and socket wrench with SW8 socket (Windsafe installation)
Other necessary documents	General installation manual – Installation and project planning Installation manual Rapid16 module clamps Product sheet FixGrid18, FixGrid18 kit
Fastening torques	M8 screw fittings: 15 Nm Exception: Self-drilling screws must be screwed on in the direction of the end stop.
Safety instructions	The system must be installed with ballast according to load statics. You can get this with the system plan from the Schletter configuration tool.
	Break hazard! PV modules can be damaged if they are entered.
	Planning of the solar power system, installation and commissioning must be done only by qualified technical personnel. Improper execution can damage the system and endanger people.
	Electrical current hazard! Installation and maintenance of the PV module must be done only by qualified professionals. Obey the PV module manufacturer's safety instructions!
	Falling hazard! During all work on the roof, and when climbing up and down, there is a risk of falling. Always obey the accident prevention regulations and use appropriate fall protection equipment.
	Injury hazard! People can be injured by falling objects. In the hazard area, before starting installation, set up barriers and warn people in the area.
Installation instructions	Make sure the flat roof seal and the installation system are compatible. Roof drainage must be incorporated into the system plan.



For very uneven roofs or roof seals, compensation measures may need to be taken to ensure even loading.



The necessary gaps from the roof borders must be maintained.



The maximum field type depends on the type of roof. For film roofs, it is no more than 10 m, and for concrete roofs, this can be even larger in some cases.



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For roofs with a substrate or gravel covering, it must be ensured that the connection is slip-resistant enough.



Check the existing incline of the roof and whether the installation system needs to be secured against slipping.



The surface load must not exceed the building's remaining load capacity!

The partial surface pressure exerted under the base profiles and the roof cladding and insulation must never exceed the maximum permissible surface pressure.



Current country-specific laws and regulations must be followed!

Roof cleaning! To ensure flat support of the base profile, contamination like moss, leaves, dirt, stones, etc., absolutely must be removed.



If there is a lightning protection system, determine to what extent a certified lightning protection company must integrate it. It should also be checked



For static reasons, installing a single row of modules is **not** permitted.

whether the installation changes the lightning protection requirements.



Before installation, the roof must be checked for all types of damage — especially water creasing and damage to the roof cladding. These should be documented with photos to protect against third-party claims.



The system is designed for modules with a width of 950–1050 mm (typical module dimensions according to the current state of the art). Other module dimensions are available upon request and with special verification. Observe the manufacturer's information on module clamping.



Install only original Schletter components!



Use the current installation manual! Can be found at our website: www.schlettergroup.com in the solar area under Downloads

TECHNICAL DATA

Defining base profile lengths and module support gaps

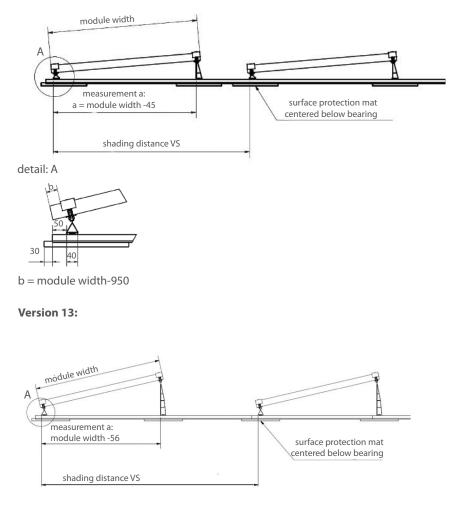
The length of the base profile depends on the selected shadowing distance versus the module width and the number of module rows. The shadowing distance can be calculated using the configuration tool. Distance "a" between "system profile 18 bottom" and "system profile 18 top" is determined from the module width:

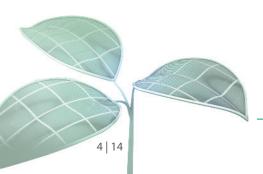
For version 6:Module width - 45mmFor version 13:Module width - 56 mm

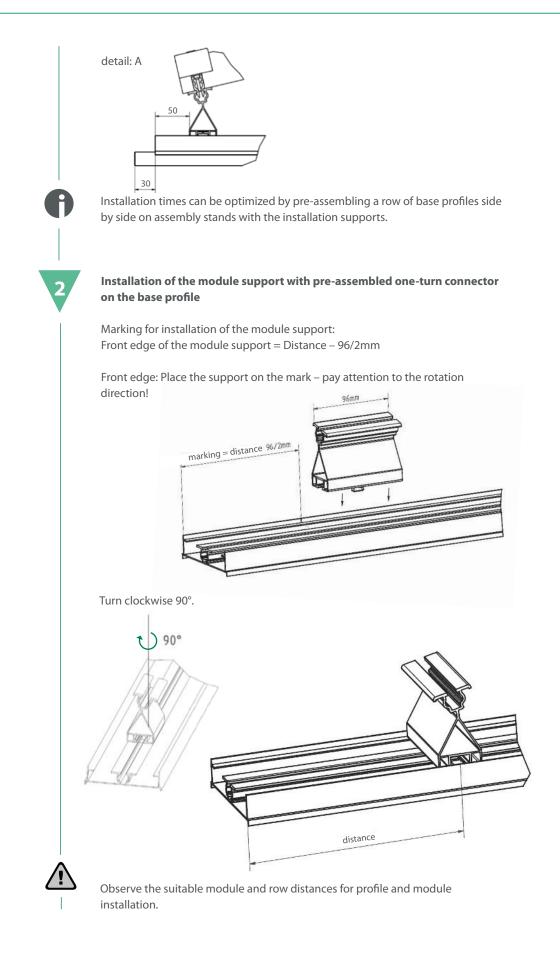
The first support must be placed at least 50 mm from the front edge of the base profile. When this rule is followed, the module frame width always closes flush with the Rapid16 module clamps (bottom and top).

The base profile length can be selected from the four standard lengths (2650, 4200, 6000, 6300 mm) and combined together. For this, the base profiles can be connected to the internal connector, item No. 129078-00. The maximum permissible field size must be observed!

Version 6:



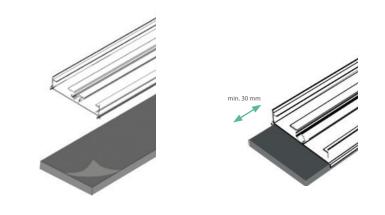






Adhere the structure protection mat (300/110/20 mm) after removing the protective film on the base profile.

Observe the structure protection mat's minimum 30 mm excess length at the profile ends.



The structure protection mat installation distances below the base profile are based on the selected installation version.

Version A:

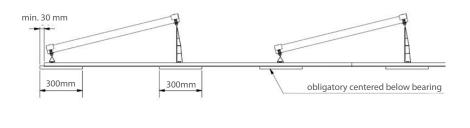
- Place 20 mm thick, 300 mm long strips centrally under under each support.
- Load placement on small surface (for light loads and/or firm substrate)
- Under impact from the base profiles, an additional structure protection mat should be positioned!
- For transverse flowing roof water, almost unhindered drainage is possible.

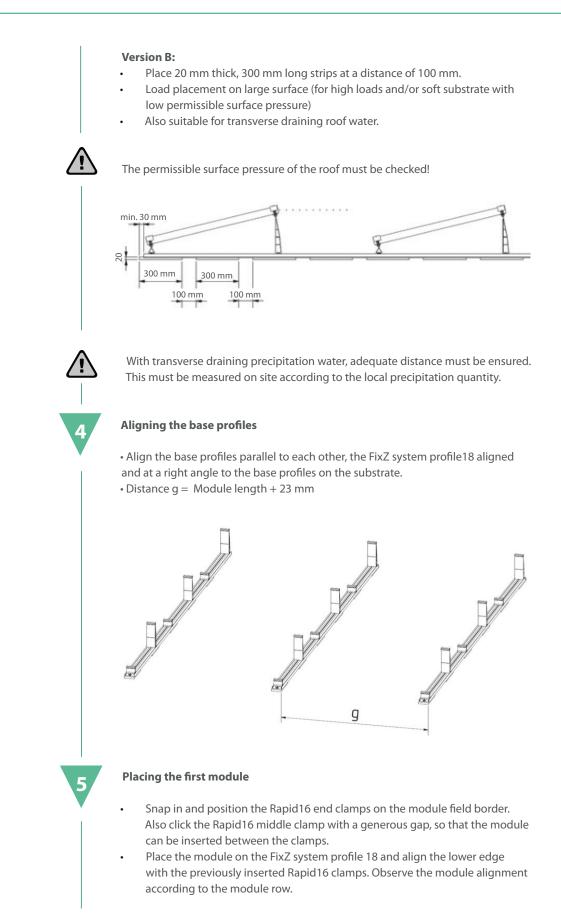




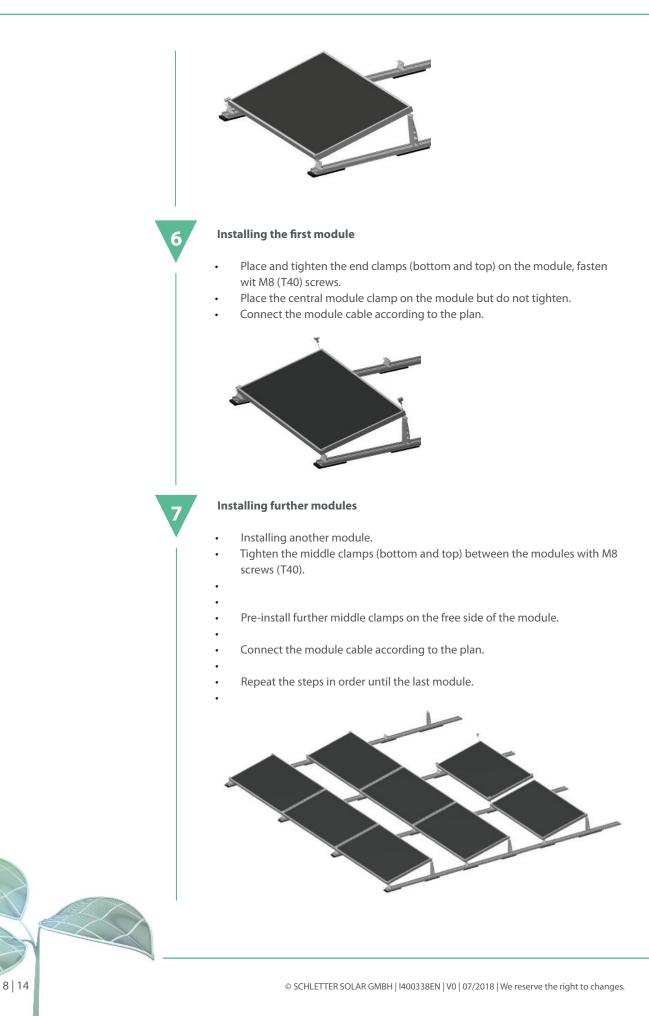
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Adequate drainage of precipitation water must be ensured!





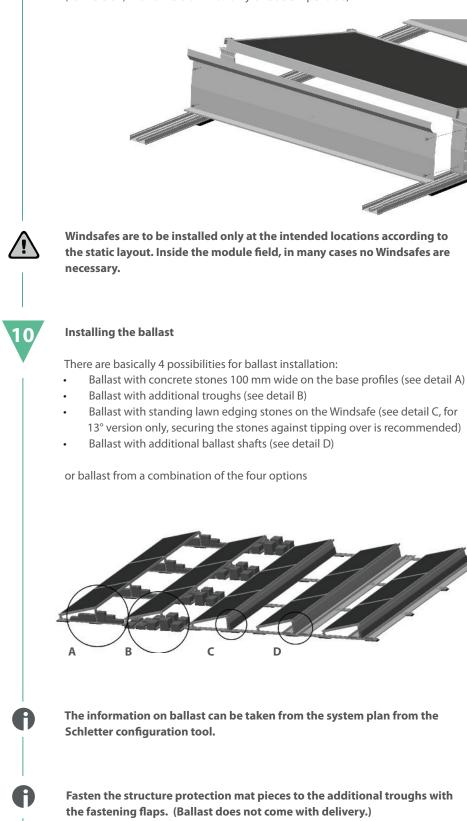
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8	Installing the last module of the row
	 Place the last module Tighten the middle clamps (bottom and top) between the modules with M8 screws (T40). Install the end clamps on the free side of the module and tighten. Connect the module cable according to the plan.
<u>/</u>	Insert end clamps at least 10 mm from the end of the profile.
	min. 10 mm
[!	Observe the module distance for middle clamps.
	1-2 mm
9	Installing Windsafes
	For each incline variant, there are two length types for Windsafe sheets:
	Version 6°:
	length 1750 mm for module length up to 1700 mm
	length 2150 mm for module length up to 2067 mm

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	is broken apart into individual parts at this pre-punching!
Versi	on 13°:
	length 1750 mm for module length up to 1700 mm
	length 2150 mm for module length up to 2067 mm
• \ 	The Windsafes of the 6° version are fastened with one screw, and the 13° version with 2 screws per module support. Viewed from the back, the Windsafes are installed from right to left. For this, the first Windsafe must be placed on the base profile and distributed on the two supports. With thin sheet metal screws, the Windsafe is screwed on through the two holes (13° version) on the right side onto the upper FixZ system profile 18. (6° version with only one screw) Place further Windsafes on the base profile, align them laterally, and screw them on to the right through the holes of the upper Windsafe poth Windsafes on the FixZ system profile 18. The last Windsafe on the left side must be fastened with two thin sheet metal screws at the same height.

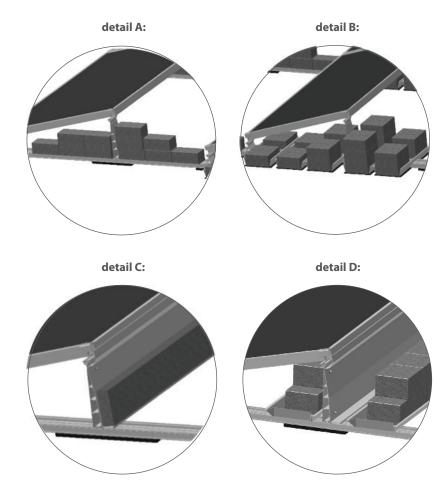
 $\ensuremath{\mathbb O}$ SCHLETTER SOLAR GMBH | I400338EN | V0 | 07/2018 | We reserve the right to changes.



One Windsafe is fastened with two thin sheet metal screws per side. (13° version, with 6° version with only one screw per side)

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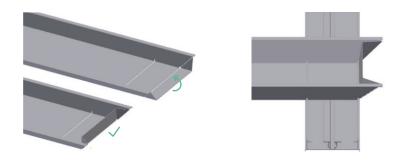


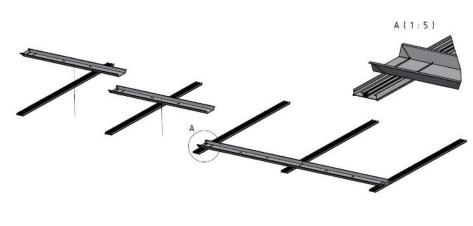
Ballast with additional ballast shafts (detail D)

If the ballast shafts are filled with gravel, then gravel run-out at the ends of the rows can be prevented by folding the shaft ends up. For this, the ends of the ballast shafts must be folded at the perforation.

The first ballast shaft is placed from the right with the recesses and upstand on the base profiles.

All other shafts are turned 180 degrees (left recesses) from right to left. With this, the shaft always lies with the side of the slot flush in the base profile. On the last ballast shaft, the end must be folded up again.





More information on our systems can be found at our website: www. schletter-group.com, in the solar area under Downloads.

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