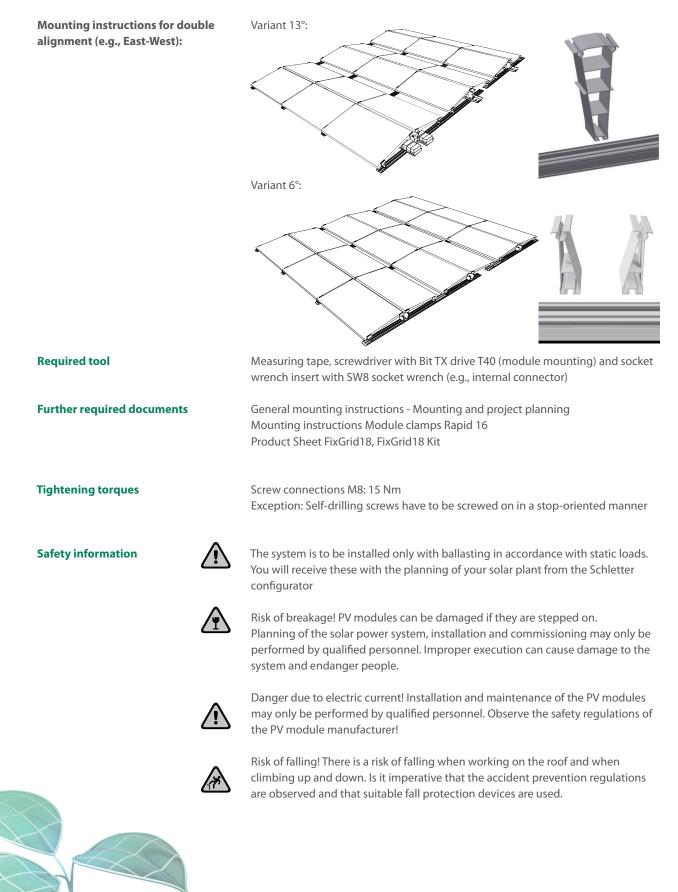


# FixGrid18-100

MOUNTING INSTRUCTIONS

# FixGrid100-18





Risk of injury! People may be injured by falling objects. Before starting the installation work, block off the danger zone and warn people in the vicinity.

### **Mounting instructions**

 $\triangle$ 

Ensure that the flat roof waterproofing is compatible with the mounting system. The roof drainage system has to be included in the planning of your solar plant.



In the case of very uneven roofs or roof waterproofing, compensatory measures may have to be taken in order to ensure a uniform introduction of the load.



Necessary distances to roof edges have to be maintained. The maximum field size depends on the type of roof. For foil roofs, it is max. 10 m; for concrete roofs, it can also be larger in individual cases.

In the case of roofs with substrate or gravel roofing, it has to be ensured that a sufficiently non-slip connection occurs.

Please check the existing pitch of the roof and whether the mounting system has to be secured against slipping.

The surface load is not permitted to exceed the residual load-bearing capacity of the building!

The partial surface pressure, which acts on the roof membrane and insulation under the base rails, is not allowed under any circumstances to exceed the maximum permissible surface pressure.

Current country-specific rules and regulations have to be observed. Roof cleaning! In order to ensure that the base rails are supported across their entire surface, impurities such as moss, leaves, dirt, stones, etc. have to be removed.



If there is a lightning protection system involved, it is important to determine the extent to which integration by a certified lightning protection company is necessary. Whether or not the lightning protection requirements change as a result of the installation also has to be determined.



Due to static reasons, the installation of a single module row is not permitted!

**A** 

Prior to installation, the roof has to be checked for damage of any kind, particularly water beading or damage to the roof membrane. These should be documented with photos in order to be able to counteract any recourse claims. The system has been developed for modules with a width of 950-1050 mm (standard module dimensions according to the current status). Other module dimensions on request and separate verification. Information about module clamping pursuant to the manufacturer has to be observed.



Use only original Schletter components!

Use the current mounting instructions! Accessible on our website: www.schletter-group.com in the solar section under **Downloads** 





Defining the base rail lengths and distances between module supports



The length of the base rails depends on the selected module width, maintenance aisle width and the number of module rows.

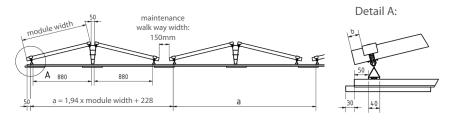
The distance between "System Rail 18 at the bottom" and "System Rail 18 at the top" only depends upon the module inclination. The first support should be placed at least 50 mm from the front edge of the base rail. The module frames are always flush at the top with the Rapid 16 module clamps.

The base rail length can be selected from the four standard lengths (2650, 4200, 6000, 6300 mm) and combined with each other. The base rails can be connected with the internal connector, Item No. 129078-000. The maximum permissible field size has to be observed!

### **Mounting distances**

Mounting Distances a and c as well as the lower projection of Modules b and d result from the module width. The dimensions can be determined as follows.

### Variant 13°



b = module width - 950

30

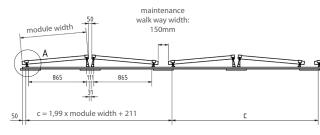
Detail A:

40

d = module width - 950

Distance a has to be adapted according to the width of the maintenance walk way. The specification of the distances is based on the use of Rapid16 module clamps (module clamp length = 50mm).

### Variant 6°

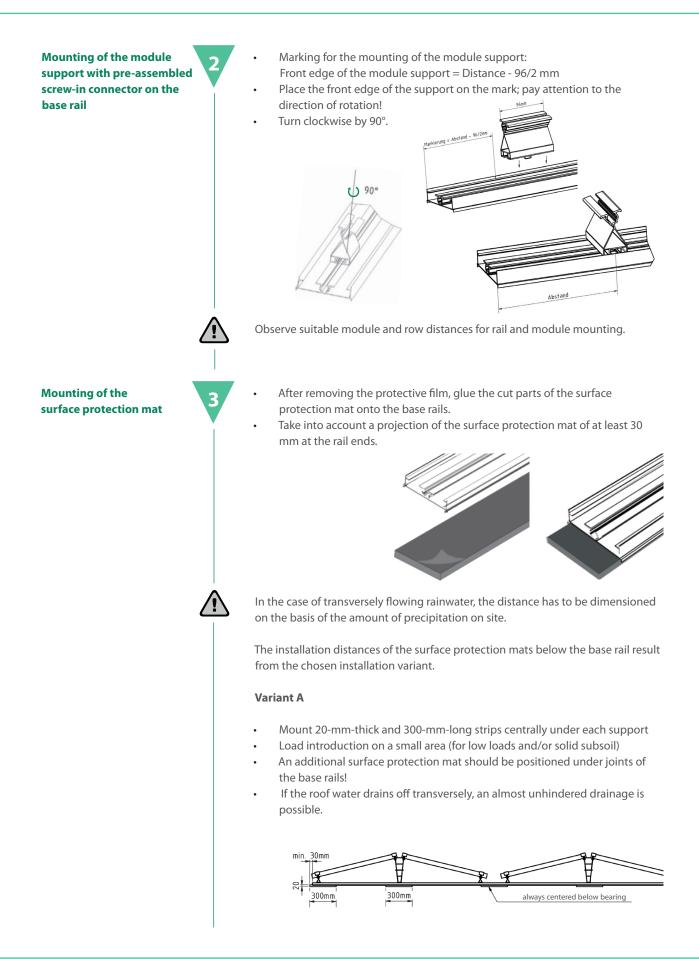


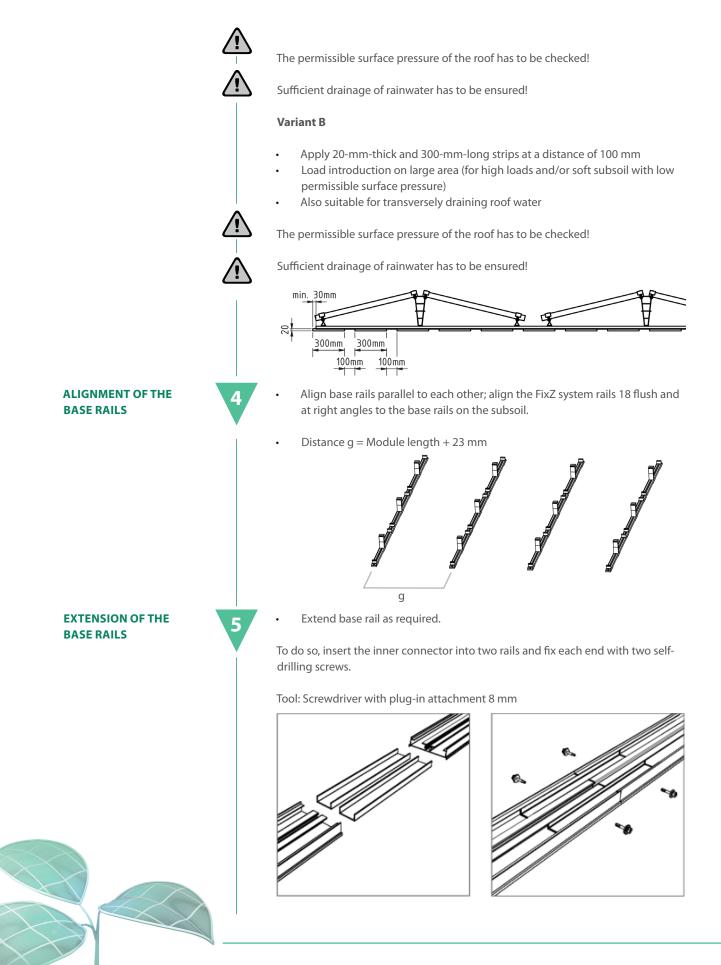
Distance c has to be adapted according to the width of the maintenance walk way. The specification of the distances is based on the use of Rapid16 module clamps (module clamp length = 50mm).

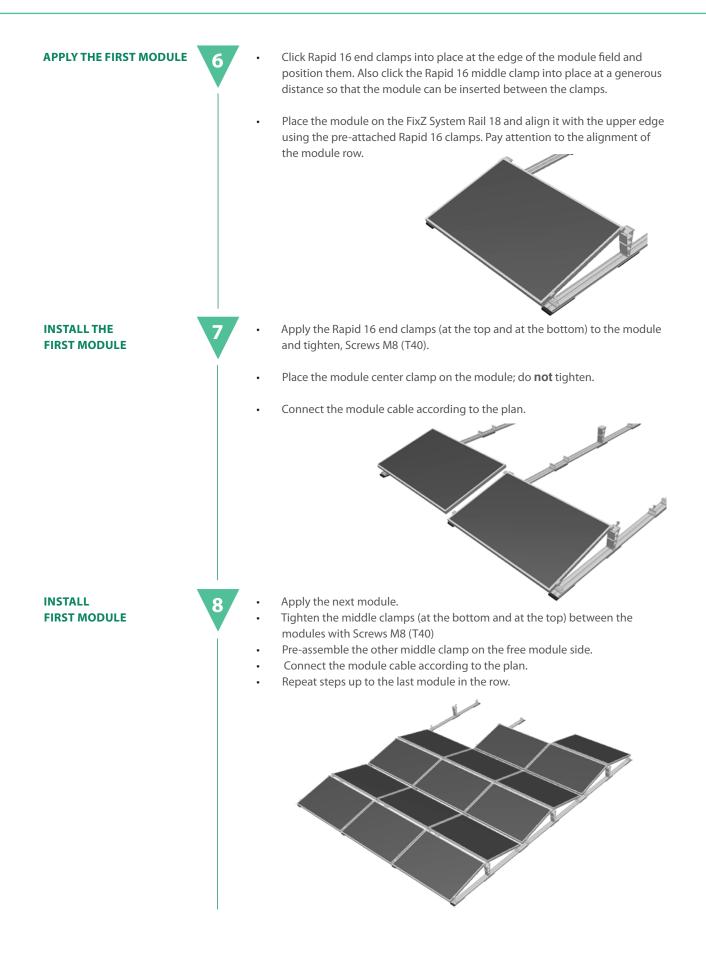
The mounting times can be optimized by pre-assembling a series of base rails next to each other on mounting frames with the module supports.

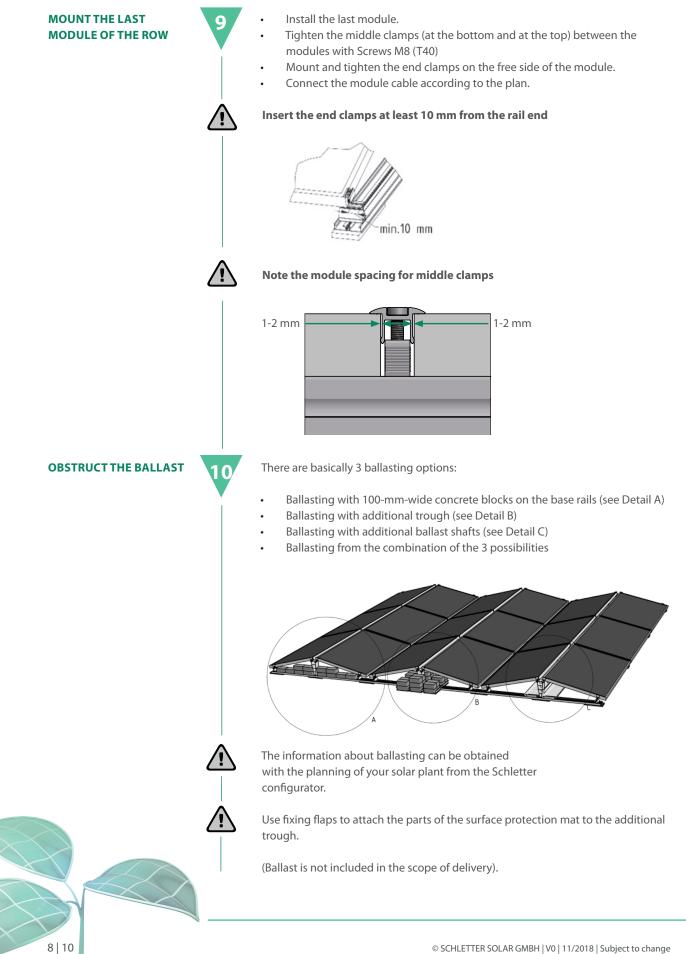


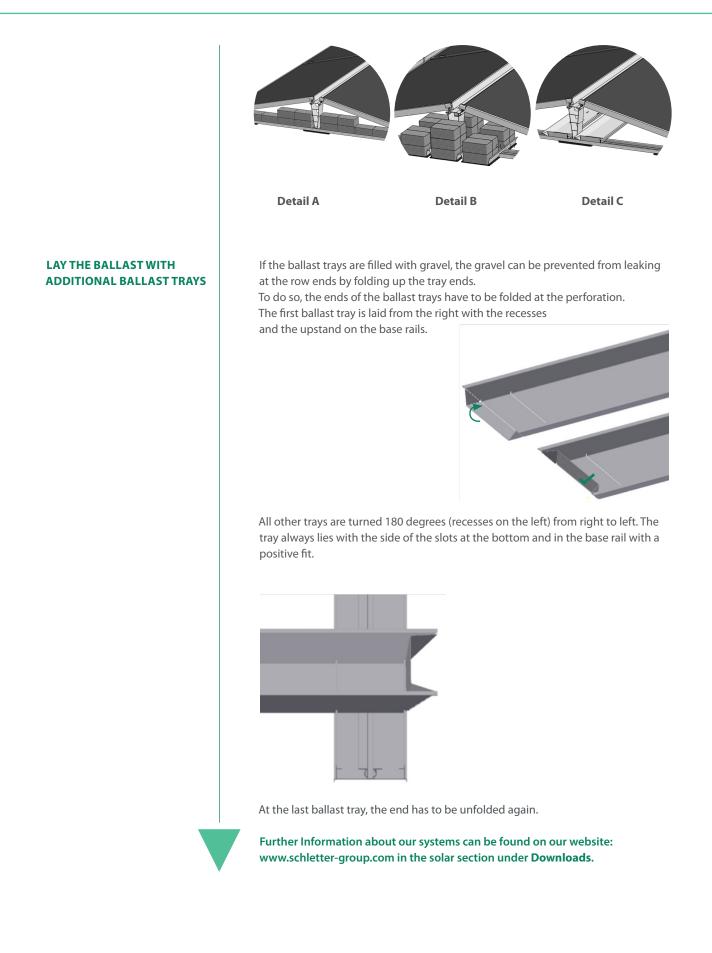
## FixGrid18-100 MOUNTING INSTRUCTIONS











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