

### FS Duo100

- Highest possible level of pre-assembly
- No ground sealing
- Quick and easy assembly
- Perfectly synchronized system components
- High economic efficiency
- Suitable for heavy loads



The FS system for ground-mounted solar plants has been deployed by Schletter for many years in a large number of projects across Germany and Europe.

Schletter has utilized the experience gained in these projects to further enhance the FS Duo and to develop an even more effective variant to its range of PV mounting assemblies. Increasing cost pressure within manufacturing, particularly in the sector of ground-mounted solar plants has resulted in the mandatory optimization of materials.

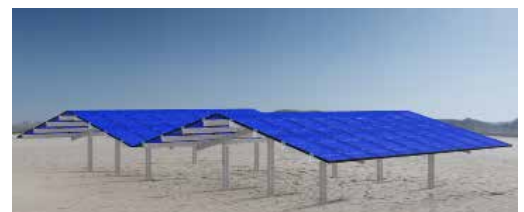


Just like the FS Uno 100, the FS Duo100 is designed for an east-west alignment of the modules. In contrast to the FS Uno100, it allows higher loads respectively bigger module areas. Due to the three-support arrangement, bigger support distances are possible.

Nowadays, solar modules are getting cheaper, but at the same time the expenses for lease as well as additional costs for lease and incidental costs keep increasing. Thus, the terrain must be used in the most efficient way. Due to the short shading distance, the **FS Duo100** allows an efficient occupancy of the roof area which results in higher yields. In contrast to south-facing solar plants, east-west facing solar modules can generate a more balanced energy yield in the course of the day. This aspect is getting ever more important regarding energy politics.

#### Benefits

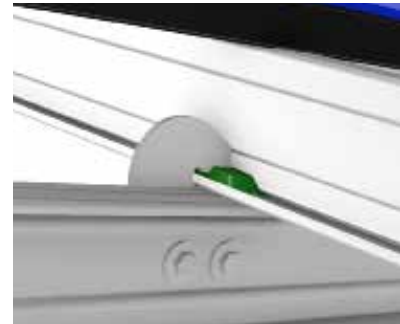
- Efficient use of materials
- Greater distances between supports are possible
- Galvanized sheet metal edges made of strip galvanised material
- Average zinc layer thickness of up to 80 µm
- Optimum area utilization



\*The terms of guarantee can be referenced at [www.schletter.de/AGB\\_en](http://www.schletter.de/AGB_en)

**Short description of the mounting**

The girder rail is fastened to the pile-driven supports. The module-bearing profiles are hooked in using connector hooks and are fastened with a fastening device made of high-grade steel. For this purpose, the fastening device is accurately hammered in using a hammer in order to create a fixed connection with pre-stress. This safeguards durable stability also in difficult conditions.



**Technical data**

<b>Material</b>	Fastening elements, screws/bolts: High-grade steel (fastening device, bolts) Profiles (rails): Steel, hot-dip galvanized (strip-galvanised) Pile-driven foundation posts: Steel, hot-dip galvanized
<b>Logistical details</b>	<ul style="list-style-type: none"> <li>• Delivery of single components as well as a maximum level of pre-assembly is possible.</li> <li>• Transport to the installation site appropriate to the specific kind of mounting</li> </ul>
<b>Construction</b>	<ul style="list-style-type: none"> <li>• Quick and easy mounting</li> </ul>
<b>Delivery and services</b>	<ul style="list-style-type: none"> <li>• Soil survey and structural analysis of the soil</li> <li>• Individual rack structural analysis based on regional conditions</li> <li>• Pile driving of the foundations and delivery of the complete mounting material</li> <li>• <b>Optional:</b> Rack mounting</li> <li>• <b>Optional:</b> Complete module assembly</li> </ul>
<b>Structural analysis</b>	<ul style="list-style-type: none"> <li>• Structural analysis of the respective terrain based upon a geological survey</li> <li>• Individual systems structural analysis based on regional load values</li> <li>• Load assumptions according to DIN EN 1990 (Eurocode 0), DIN EN 1991 (Eurocode 1), DIN EN 1993 (Eurocode 3), DIN EN 1999 (Eurocode 9) and further respectively corresponding country-specific technical standards</li> <li>• Highly efficient, material-saving rail geometries</li> <li>• Structural verification of all constructional components on the basis of experimental tests and FEM calculations</li> </ul>

Further information at: [www.schletter.eu](http://www.schletter.eu)

