



# System Datasheet

## FS10-S / FS18-S

### General

System	Ballasted PV-mounting system
Content	Ground rails, rail connector, building protection mat, low post, high post, wind deflector, clamps
System warranty	10 years
Application area	Flat roof on industrial, agricultural (except hydrogen sulfide exposition ) and residential buildings
Roof covering	Bitumen, concrete, foil, gravel
Roof slope	max. 3° without additional measures

### System properties

System orientation	South
Module tilt	Roof parallel
System weight approx.	2.2 kg/m <sup>2</sup> (FS10-S) / 2.3 kg/m <sup>2</sup> (FS18-S) plus ballast (project specific)
Weight PV-module included approx.:	9.3 kg/m <sup>2</sup> (FS10-S) / 8.1 kg/m <sup>2</sup> (FS18-S) plus ballast (project specific)
Friction coefficient	$\mu = 0,5$ is to be determined and ensured upon installation surface.
Material	Aluminum, stainless steel , strip-galvanized steel metal sheet, rubber granulate
Minimum edge distance	0,6 m
Shading angle	12° to 17.5°
Max. Wind Dynamic Pressure	$q_p = 1,5$ kN/m <sup>2</sup> (with simultaneously acting snow load of $s_k = 1,5$ kN/m <sup>2</sup> )
Max. Wind Dynamic Pressure	$q_p = 1,0$ kN/m <sup>2</sup> (with simultaneously acting snow load of $s_k = 2,5$ kN/m <sup>2</sup> )

### Modules

Type	Suitable for standard 60/72 cell panels. Approval for panel corner clamping is to be obtained.
Module size (max)	10°: 950-1,050 mm / 18°: 975-1,010 mm
Module guidance	Horizontal/Landscape

### Certifications

Wind loads	Determined in wind tunnel tests by Ruscheweyh Consult GmbH
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### Services

PV layout	Provided by Renusol
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System	Ground rail #	Inter-row spacing approx. [mm]	Shading angle
FS10-S	500400	1.490 x Module length	17,5°
FS10-S	500401	1.740 x Module length	12,0°
FS18-S	500402	1.840 x Module length	17,5°
FS18-S	500403	2.090 x Module length	14,5°