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/m² (FS10-S) / 2.3 kg/m² (FS18-S) plus ballast (project specific)
Weight PV-module included approx. | 9.3 kg/m² (FS10-S) / 8.1 kg/m² (FS18-S) plus ballast (project specific)
Friction coefficient | µ =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/m² (with simultaneously acting snow load of s_i=1.5 kN/m²)
Max. Wind Dynamic Pressure | q_p=1.0 kN/m² (with simultaneously acting snow load of s_i=2.5 kN/m²)

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

Services
PV layout | Provided by Renusol

<table>
<thead>
<tr>
<th>System</th>
<th>Ground rail #</th>
<th>Inter-row spacing approx. [mm]</th>
<th>Shading angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS10-S</td>
<td>500400</td>
<td>1.490 x Module length</td>
<td>17.5°</td>
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<tr>
<td>FS10-S</td>
<td>500401</td>
<td>1.740 x Module length</td>
<td>12.0°</td>
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<tr>
<td>FS18-S</td>
<td>500402</td>
<td>1.840 x Module length</td>
<td>17.5°</td>
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<td>FS18-S</td>
<td>500403</td>
<td>2.090 x Module length</td>
<td>14.5°</td>
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</tbody>
</table>

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