

System Datasheet

FS10-EW / FS10-EW XL

General

System	Ballasted PV-mounting system
Content	Ground rails, rail connector, building protection mat, low post, high post, 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. 5° without additional measures

System properties

System orientation	East-West
Module tilt	10°
System weight approx.	1,15 kg/m ² plus ballast (project specific)
Weight PV-module included approx.:	11,8 kg/m ² plus ballast (project specific)
Friction coefficient	$\mu = 0,5$ is to be determined and ensured upon installation surface.
Material	Aluminum, stainless steel, rubber granulate
Minimum edge distance	0,6 m
Max. Wind Dynamic Pressure	$q_p = 1,5 \text{ kN/m}^2$ (with simultaneously acting snow load of $s_k = 1,5 \text{ kN/m}^2$)
Max. Wind Dynamic Pressure	$q_p = 1,0 \text{ kN/m}^2$ (with simultaneously acting snow load of $s_k = 2,5 \text{ kN/m}^2$)

Modules

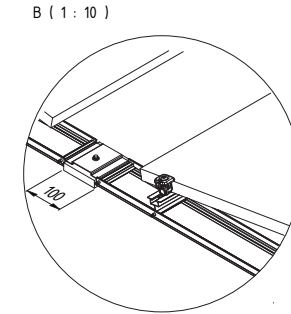
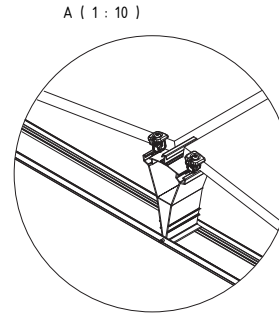
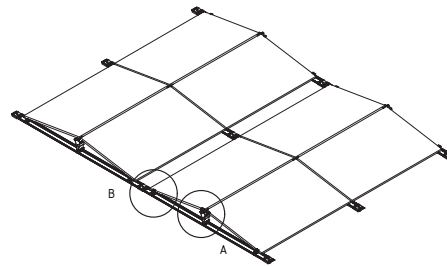
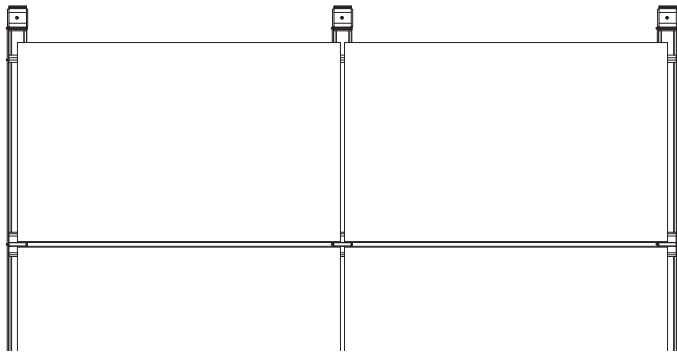
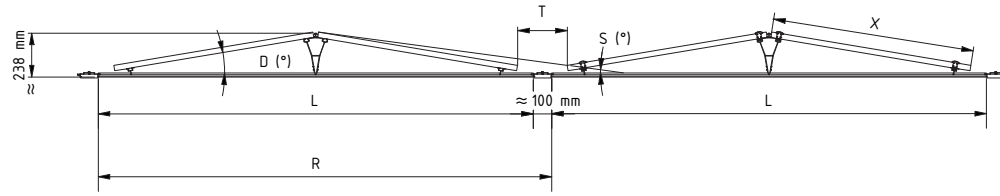
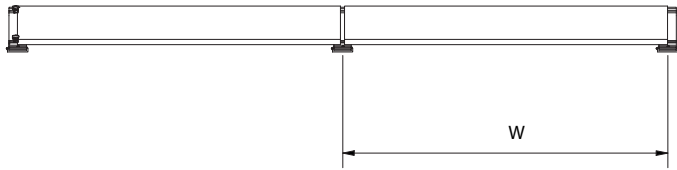
Type	Suitable for standard 60/72 cell panels. Approval for panel corner clamping is to be obtained.
Module width:	FS10-EW: 950-1.052 mm / FS10-EW XL: 1053-1.168 mm
Module guidance	Horizontal/Landscape

Certifications

Wind loads	Determined in wind tunnel tests by Ruscheweyh Consult GmbH
PV layout	Provided by Renusol (www.pv-configurator.com)
Ballast plan	Provided by Renusol (www.pv-configurator.com)

Services

PV layout	Provided by Renusol (www.pv-configurator.com)
Ballast plan	Provided by Renusol (www.pv-configurator.com)



System	FS10-EW XL	
Ground rail	R500499	
Rail length	L:	2362 mm
Row spacing	R:	2462 mm
Module width	X ₁ :	Min: 1053 mm
	X ₂ :	Max: 1168 mm
Passageway	T(X ₁):	Min: 355 mm
	T(X ₂):	Max: 125 mm
System width	W:	Module length +24mm
Module inclination	D:	9°
Shading angle	S;	≈ 7,0° - 9,0°

System	FS10-EW	
Ground rail	R500500	
Rail length	L:	2260 mm
Row spacing	R:	2360 mm
Module width	X ₁ :	Min: 950 mm
	X ₂ :	Max: 1052 mm
Passageway	T(X ₁):	Min: 455 mm
	T(X ₂):	Max: 255 mm
System width	W:	Module length +24mm
Module inclination	D:	10°
Shading angle	S:	≈ 6,7° - 7,9°

System	FS10-EW	
Ground rail	R500407	
Rail length	L:	2060 mm
Row spacing	R:	2160 mm
Module width	X ₁ :	Min: 950 mm
	X ₂ :	Max: 1052 mm
Passageway	T(X ₁):	Min: 255 mm
	T(X ₂):	Max: 55 mm
System width	W:	Module length +24mm
Module inclination	D:	10°
Shading angle	S:	≈ 7,8° - 9,3°

System	FS10-EW	
Ground rail	R500501	
Rail length	L:	1989 mm
Row spacing	R:	2090 mm
Module width	X ₁ :	Min: 950 mm
	X ₂ :	Max: 1020 mm
Passageway	T(X ₁):	Min: 185 mm
	T(X ₂):	Max: 45 mm
System width	W:	Module length +24mm
Module inclination	D:	10°
Shading angle	S:	≈ 9,0° - 9,5°