

System Datasheet

Renusol FS Pro 10-S



General

System	Ballasted PV-mounting system
Content	Floor rail with pre-assembled building protection and eaves support, ridge support, module clamps
System warranty	10 years, 20 years with PV configurator design
Application area	Flat roof on industrial, agricultural (except hydrogen sulfide exposition) and residential buildings
Roof covering	Bitumen, concrete, foil, gravel, trapezoidal sheet metal
Roof slope	max. 5° without additional measures

Montagevariante



You can find further mounting options at www.renusol.com.
The Renusol FS Pro 10-S is available as a system with three rails, as portrait mounting, with a clamp on the long side, as well as a fixed version on trapezoidal sheet metal and roof-penetrating with third-party products.

System properties

System orientation	South
Module tilt	10°
System weight approx.	1,15 kg/m² plus ballast (project specific)
Weight PV-module included approx.	11,8 kg/m² plus ballast (project specific)
Friction coefficient approx	$\mu = 0,5$ is to be determined and ensured upon installation surface.
Material	Aluminium, stainless steel, galvanised sheet steel, PC, PE
Minimum edge distance	0,6 m
Max. Wind Dynamic Pressure	$q_p = 1,5 \text{ kN/m}^2$ (with simultaneously acting snow load of $s_k = 1,5 \text{ kN/m}^2$) $q_p = 1,0 \text{ kN/m}^2$ (with simultaneously acting snow load of $s_k = 2,5 \text{ kN/m}^2$)
Maximum snow load	$s_d = 2,3 \text{ kN/m}^2$ for 2 floor rails $s_d = 3,7 \text{ kN/m}^2$ for 3 floor rails

Modules

Type	Framed modules. Approval for clamping in the corner area to be provided by the customer.
Module width	R520222: 990-1.070 mm, R520223: 1.071-1.150 mm
Module length	R500236: 1.851 - 2.250 mm (graph 1). Maximum 2.300 mm (graph 2) R500240: Module length < 1.800 mm (diagram 1)
Module guidance	Horizontal

Certifications & Services

Wind loads	Determined in wind tunnel tests by I.F.I Institut für Industrieaerodynamik GmbH
Fire behaviour	Classification: E (DIN EN 13 501-1) / Identification no. 0672
PV layout & Ballast plan	Provided by Renusol PV Configurator (www.pv-configurator.com)

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