

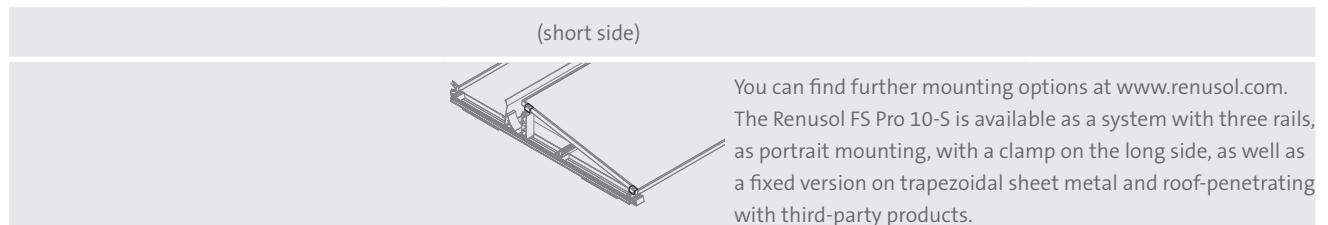
System Datasheet

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



System properties

System orientation	South
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 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

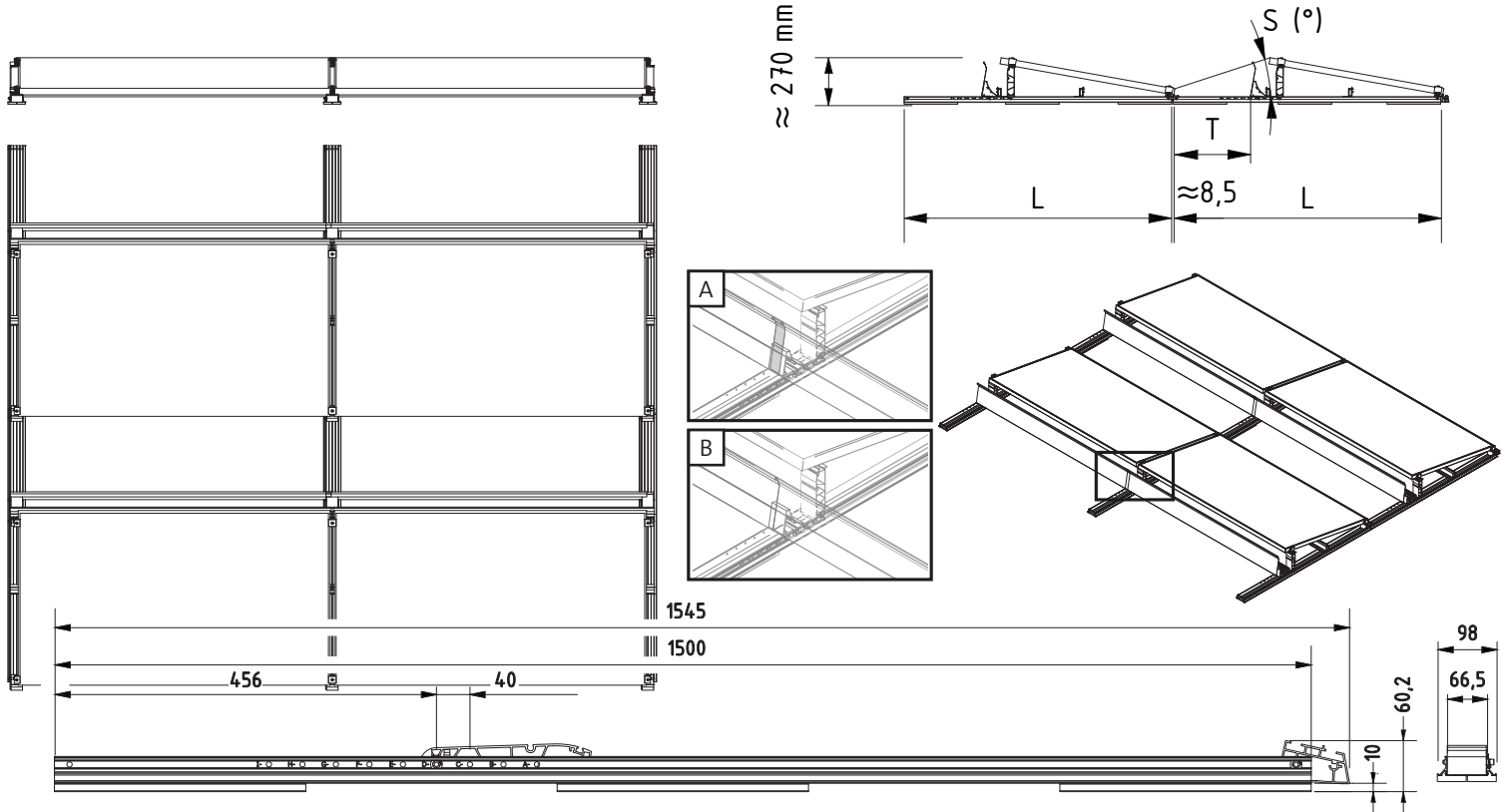
Type	Framed modules. Approval for clamping in the corner area to be provided by the customer.
Module width	R520222: 990-1.070 mm, R520223: 1.071-1.150 mm
Module length	R500236: 1.851 - 2.250 mm (graph 1). Maximum 2.300 mm (graph 2) R500240: Module length < 1,800 mm (diagram 1)
Module guidance	Horizontal

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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Rail length (L)	R520222 - 2100 mm <i>(short side)</i>	
Row spacing		1508 mm
Passageway	T:	Position D: 400 mm
		Position I: 200 mm
System width		Module length + 49 mm
Shading angle	S(X):	≈ 17,2 ° (A)