

System Datasheet

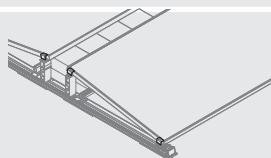
Renusol *FS Pro* 10-EW

General

System	Ballasted PV-mounting system
Content	Base rail with pre-assembled building protection, eaves support and ridge support, eaves 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

FS Pro 10-EW



You can find further mounting options at www.renusol.com. The Renusol FS Pro 10-EW 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	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 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 $s_k = 1,5 \text{ kN/m}^2$)
Max. Wind Dynamic Pressure	$q_p = 1,0 \text{ kN/m}^2$ (with simultaneously acting snow load of $s_k = 2,5 \text{ kN/m}^2$)
Maximum snow load	$s_d = 2,0 \text{ kN/m}^2$ for 2 floor rails
Maximum snow load	$s_d = 3,0 \text{ kN/m}^2$ for 3 floor rails

Modules

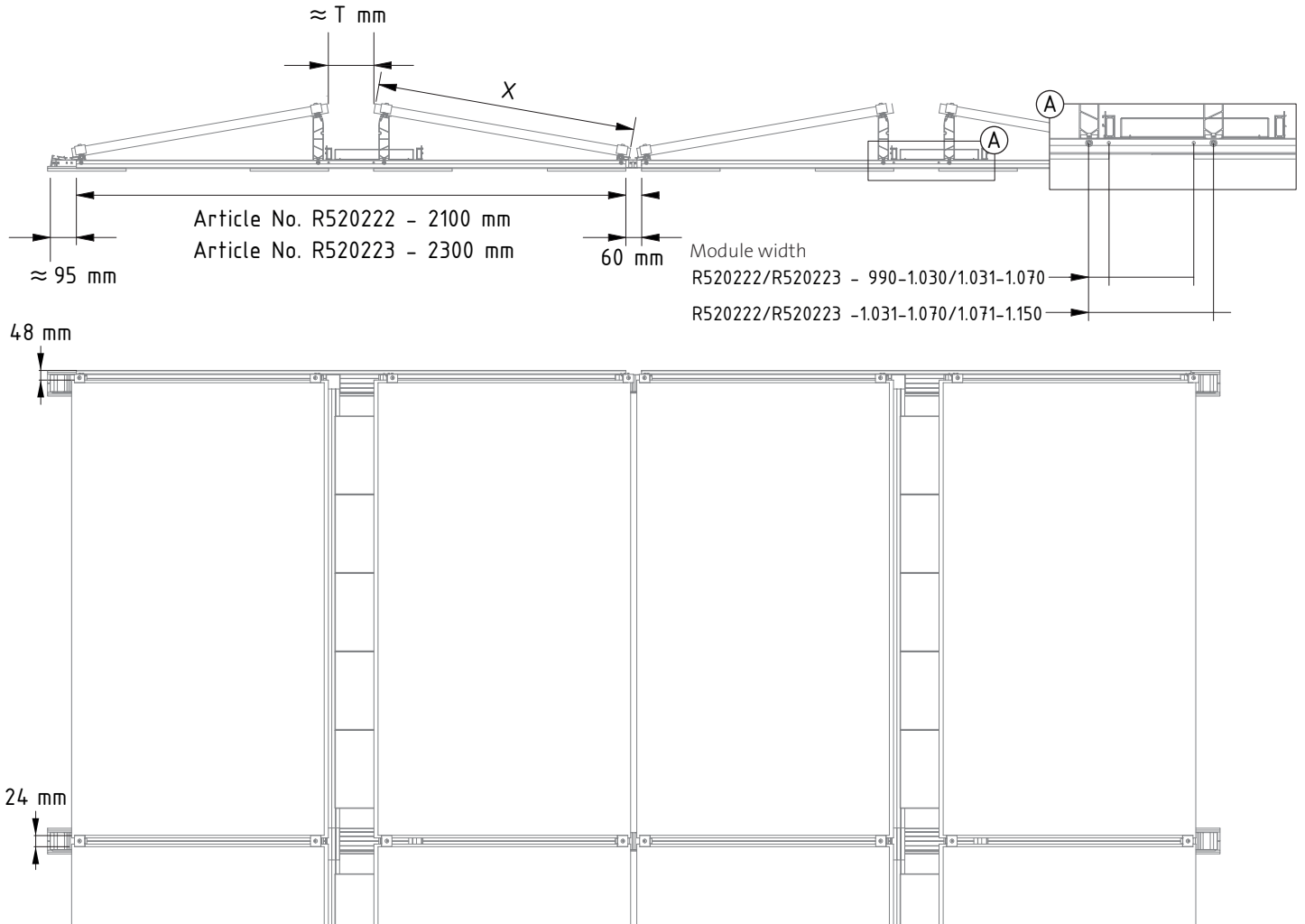
Type	Framed modules. Approval for clamping in the corner area to be provided by the customer.
Module width	R520222: 990-1.070 mm, R520223: 1.071-1.150 mm, R520229: 1.180-1.310 mm
Module guidance	Horizontal

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	R520222 - 2100 mm	
Row spacing		2160 mm
Module width	X:	Min: 990 mm
		Max: 1070 mm
Passageway	T:	Min: 17 mm
		Max: 187 mm
System width		Module length + 65 mm
Shading angle	S(X):	\approx Min: 8,7°

Rail length	R520223 - 2300 mm	
Row spacing		2360 mm
Module width	X:	Min: 1071 mm
		Max: 1.150 mm
Passageway	T:	Min: 17 mm
		Max: 187 mm
System width		Module length + 65 mm
Shading angle	S:	\approx Min: 8,7°