

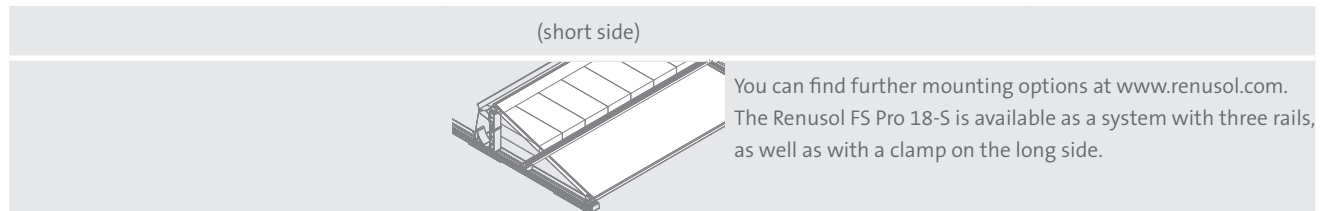
## System Datasheet

# Renusol FS Pro 18-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                       | 18°  |
| System weight approx.             | 1,15 kg/m <sup>2</sup> plus ballast (project specific)   |
| Weight PV-module included approx. | 11,8 kg/m <sup>2</sup> 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 $s_k = 1,5 \text{ kN/m}^2$ )<br>$q_p = 1,0 \text{ kN/m}^2$ (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<br>$s_d = 2,45 \text{ kN/m}^2$ for 3 floor rails  |

### Modules

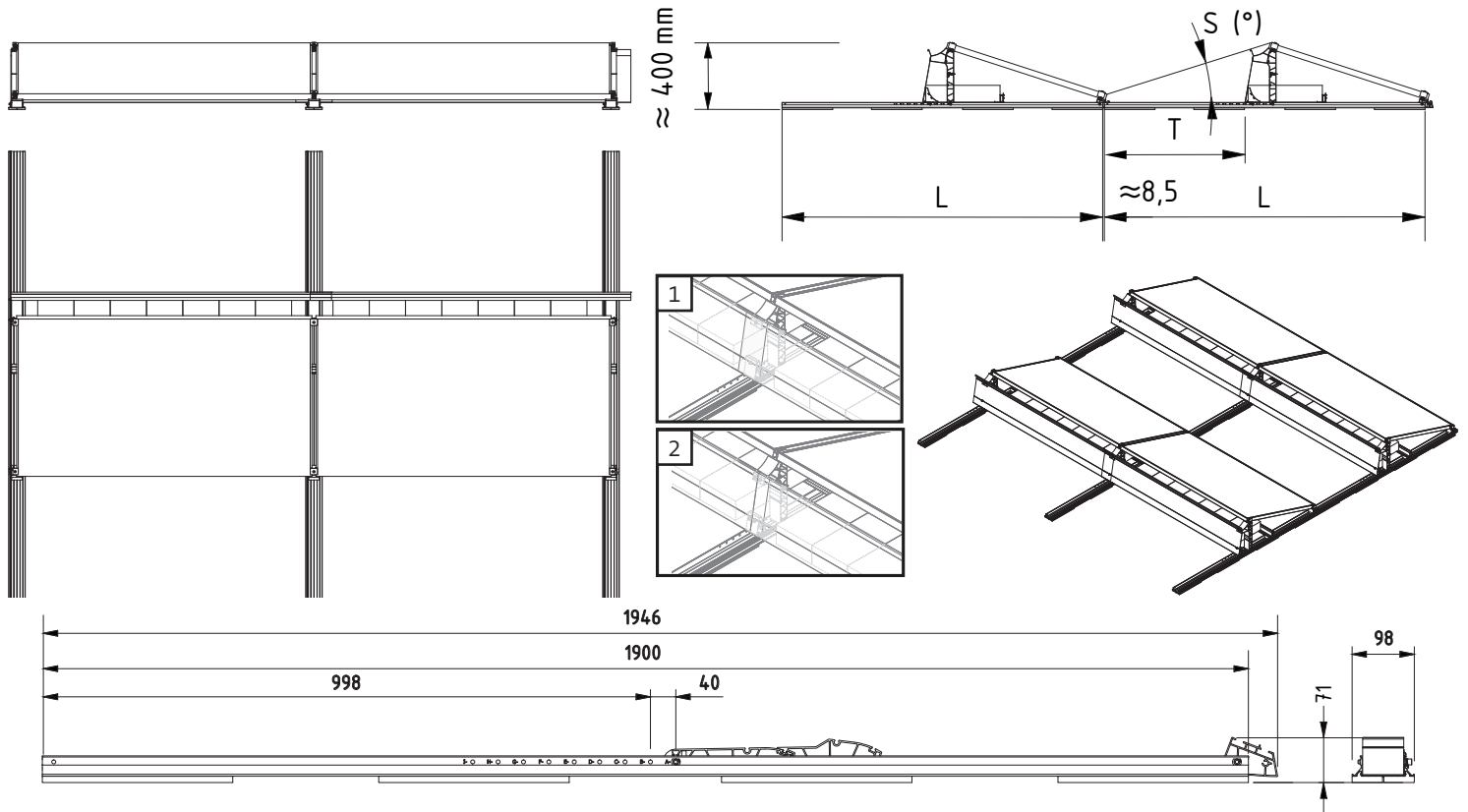
|                 |  |
|-----------------|--|
| Type            | Framed modules. Approval for clamping in the corner area to be provided by the customer.                         |
| Module width    | R520221: 990-1.230 mm  |
| Module length   | R500237: 1.851 - 2.250 mm (graph 1). Maximum 2.300 mm (graph 2)<br>R500242: 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 ( <a href="http://www.pv-configurator.com">www.pv-configurator.com</a> ) |

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|                 |                                   |                          |
|-----------------|-----------------------------------|--------------------------|
| Rail length (L) | R520221 - 1900 mm<br>(short side) |                          |
| Row spacing     |                                   | 1954 mm                  |
| Passageway      | T:                                | Position D: 820 mm       |
|                 |                                   | Position I: 660 mm       |
| System width    |                                   | Module length + 49 mm    |
| Shading angle   | S(X):                             | $\approx 17,2^\circ$ (A) |