



## FLAT ROOF STRUCTURES

for framed and frameless photovoltaic modules



### Flexible application:

The S:FLEX flat roof system allows for easy installation of framed and frameless photovoltaic modules on old and new buildings. The base triangle is available in three configurations of pre-assembled triangles manually adjustable in 5° increments to satisfy the required module inclination for each installation site. Triangle configurations range from 10° - 15°, from 20° - 30° and from 35° - 45°.

### Quick assembly:

The S:FLEX flat roof mounting structure has numerous pre-assembled parts. The click technology further reduces assembly time.

### Extensive module compatibility:

Height-adjustable module clamps and end clamps allow for maximum flexibility when mounting framed modules from 1.10 to 2.05 inch thick. We can also provide certified laminate clamps for frameless modules.

### Excellent adaptability:

Variable system height capability enables a level photovoltaic array on uneven roof surfaces. The base

triangles can be mounted directly to the roof structure or attached to a variety of rails to span between appropriate roof members. If it is not possible to penetrate the roof, the structure can be fixed directly onto profiled or corrugated roofing using the appropriate bracket. Direct assembly onto ballasts is also possible.

### Precision without cutting:

The use of our telescoping mounting rail splices enable the equipment to be positioned accurately without the need for cutting.

### Maximum security:

If required, S:FLEX can provide structural design services for the mounting structure in compliance with the 2006 International Building Code.

### Long service lifetime:

All major components are made of aluminum and stainless steel. High corrosion resistance ensures a maximum service life and all components are recyclable.

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## Technical Data



**framed modules with  
orientation portrait**



**framed modules with  
orientation landscape**



**frameless modules with  
orientation landscape**

### Notice:

When attaching a photovoltaic system by penetrating the roof or adding additional ballast, it is important to select the mounting fixture appropriate to the location and the structural integrity of the building. The services of a professional local roofer or structural engineer are advised.

<b>Application</b>	Flat roof
<b>Mounting angle</b>	adjustable in 5° increments Base Triangles Vario 10°-15°/20°-30°/35°-45°
<b>Load-bearing capacity</b>	The mounting structure will be designed in accordance with the 2006 International Building Code including wind, snow and seismic loading. <sup>1</sup>
<b>PV module</b>	framed and frameless
<b>Arrangement of modules</b>	in rows or columns – dependent on the type of mounting structure
<b>Orientation of modules</b>	portrait (vertical) or landscape (horizontal) <sup>2</sup>
<b>Design Standards</b>	S:FLEX mounting systems and component parts are designed in accordance with the 2006 International Building Code. S:FLEX structural design services are available to determine the load-bearing capacity of specific applications. <sup>3</sup>
<b>Supporting structure &amp; triangles</b>	extruded Aluminum 6063-T6
<b>Fasteners &amp; small parts</b>	Stainless Steel
<b>Lightning protection</b>	optional <sup>3</sup>
<b>Color</b>	Aluminum
<b>Warranty</b>	10 years on durability of materials

<sup>1</sup> Be aware that wind loads are higher in areas which are closer to the edge of the roof or at the corners of the roof. Refer to the installation guidelines to identify the location and number of fastening points or ballast points.

<sup>2</sup> Please make sure to review the assembly guidelines of the module manufacturer. Some manufacturers do not approve of the installation of their modules in landscape orientation.

<sup>3</sup> For an extra charge