



mounting  
systems



## Alpha

### Unlimited flexibility

With the Alpha, both framed and unframed photovoltaic modules can be easily mounted on various types of pitched roofs.<sup>1</sup>

### Significant savings

Alpha has been specifically designed for minimum installation times. Pre-assembly, intelligent design of the connections, and the use of a single tool all result in a significant reduction in installation time and cost.

### Cut-free accuracy

The use of telescoping rails allows the system to be installed with complete accuracy; no trimming or cutting required.

### Excellent adaptability

The option of vertically adjusting the base rails allows a level PV array to be installed, regardless of height variations in the roof surface.

### Structural reliability

Using Mounting Systems' configuration software, the material for any standard configuration can be calculated in minutes with project specific, verifiable structural analysis (based on the applicable national norms) included.

### Long service life

All components are made of extruded aluminum and stainless steel. This choice of material guarantees both full recyclability and an extended service life due to high resistance to corrosion.

<sup>1</sup> Alpha is compatible with nearly every type of roof. For detailed information, please contact us during the planning phase.



On-roof



Unframed module



Framed module



Orientation portrait



Orientation landscape



Double Roman Tiles



Slate



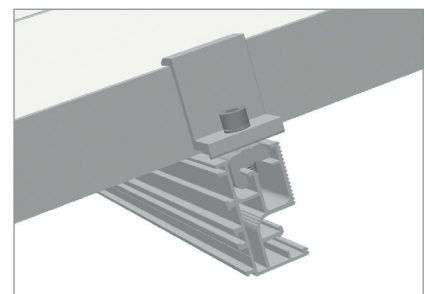
Plain Tiles



Corrugated metal



Bitumen shingles



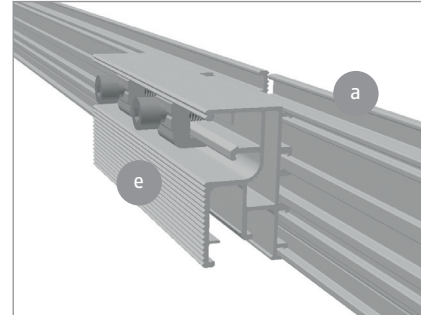
Quickstone technology



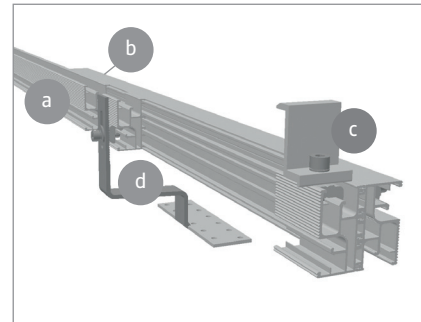


# mounting systems

<b>Application</b>	<i>Pitched roof – on-roof</i>
<b>Roofing material</b>	<i>Suitable for most roof types</i>
<b>Roof slope</b>	<i>Up to 60° <sup>1</sup></i>
<b>Building height</b>	<i>Up to 20 m • 66 ft <sup>1</sup></i>
<b>PV modules</b>	<i>Framed, unframed</i>
<b>Module layout</b>	<i>In rows or columns</i>
<b>Module orientation</b>	<i>Landscape, portrait</i>
<b>Size of module array</b>	<i>Any size <sup>2</sup></i>
<b>Position of the module array</b>	<i>No special requirements</i>
<b>Possible height allowance</b>	<i>Up to 38 mm • 1.5 in</i>
<b>Distance between roof attachments</b>	<i>Up to 2 m • 6.6 ft <sup>1</sup></i>
<b>Standards</b>	<i>International Building Code IBC 2009 California Building Code CBC 2010 ASCE/SEI 7-10 Aluminum Design Manual 2010 ANSI/AISC 360-05 ACI 318-08</i>
<b>Supporting profiles</b>	<i>Extruded Aluminum (EN AW 6063 T66)</i>
<b>Hooks, small parts</b>	<i>Stainless steel (V2A)</i>
<b>Color</b>	<i>Natural (silver)</i>
<b>Warranty</b>	<i>10 years <sup>3</sup></i>



Splice technology



Telescoping end-piece

- a** Base rail
- b** Telescoping end-piece
- c** Module end clamp
- d** Roof hook
- e** Splice

<sup>1</sup> Different maximum values may apply, and are dependent on site, building, choice of roof attachments and modules. Using the Alpha calculation tool you can have the correct values for your project calculated quickly and easily.

<sup>2</sup> Due to thermal expansion of the material, we recommend a slight gap in the array every 12 m (39.4 ft.)

<sup>3</sup> Please see the Mounting Systems, Inc. warranty document for details.