

The Alpha+ system is a robust mounting system designed and optimized for exceptionally fast and easy installation of PV modules on pitched roofs. Mounting Systems' patented Clickstone technology, internal and external splices, multiple rail options, and extensive pre-assembly speed installation while enhancing system safety and reliability.

#### **Unlimited flexibility**

Multiple rail options meet the demands for any project with the 5/40, 10/48, and 13/52 rails. Depending on project specifications, the 10/48 and 13/52 rails are compatible in either Shared Rail or Standard Rail configurations for ultimate design flexibility whereas the lightweight 5/40 rail allows for easy transportation and installation onto the roof. Bond rails using the traditional external splice or the new tool-free, internal structural splice for easy bonding and a simplified installation.

#### Significant savings

Alpha+ has been specifically designed to minimize installation times. Labor is decreased by click, set, and done Clickstone technology on all module clamps. Shared rail configurations can drastically increase savings by reducing roof penetrations and material use.

## **Aesthetically Pleasing**

The Alpha+'s improved design provides vertical adjustability to help compensate for roof irregularities and to make leveling the PV array easier. Black painted rails as well as an optional wind skirt are also available for enhanced aesthetic appeal. Mounting Systems' Flashing provides discrete and watertight connection to the roof structure.

# Structural reliability

Alph+ is ETL listed as a Class A Fire Rated system with Type 1 and 2 modules. Fully integrated, ETL listed UL 2703 system bonding eliminates third-party components and further speeds installation. For a PE-stamped, project-specific structural analysis, Mounting Systems' Design Tool can calculate any specific configuration within minutes, along with verification to the appropriate building codes and national standards.

## Maximum service life

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















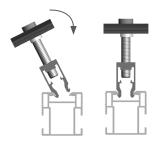








Application	Pitched roof - on-roof
Roof types	Suitable for most types of roof cladding
Roof slope	Up to 60° <sup>1</sup>
Building height	Up to 65 ft • 20 m <sup>1</sup>
PV modules	Framed or frameless
Module orientation	Landscape, portrait
Size of module array	Any size possible <sup>2</sup>
Position of the module array	No special requirements
Distance between roof attachment points	Up to 10 ft / 3 m <sup>1</sup>
Standards	IBC 2009 IBC 2012 ASCE 7-05 ASCE/SEI 7-10 CBC 2013 UL 2703 ULC ORD C1703 ANSI/AISC 360-05 ACI 318-08 Aluminum Design Manual 2010 Eurocode 1-DIN EN 191-1-1 - Actions on structures Eurocode 9 - Design of aluminum structures
Supporting profiles	Extruded Aluminum (EN AW 6063 T66)
Rail Options	13/52 Rail 10/48 Rail 5/40 Rail
Hooks, small parts	Stainless steel (V2A)
Color	Mill finish or black paint



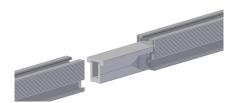
Clickstone clamp installation



5/40 Rail



Internal Splice



Internal Splice and Rail Installation



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 $<sup>{\</sup>bf 1} \ \ {\hbox{Different maximum values may apply, depending on site, building, choice of roof attachments and module type.}$ 

<sup>2</sup> The Mounting Systems QuickConfigurator can be used to verify the structural adequacy of each specific project quickly and easily.

<sup>3</sup> For details, please consult Mounting Systems, Inc. full warranty document, available upon request.