

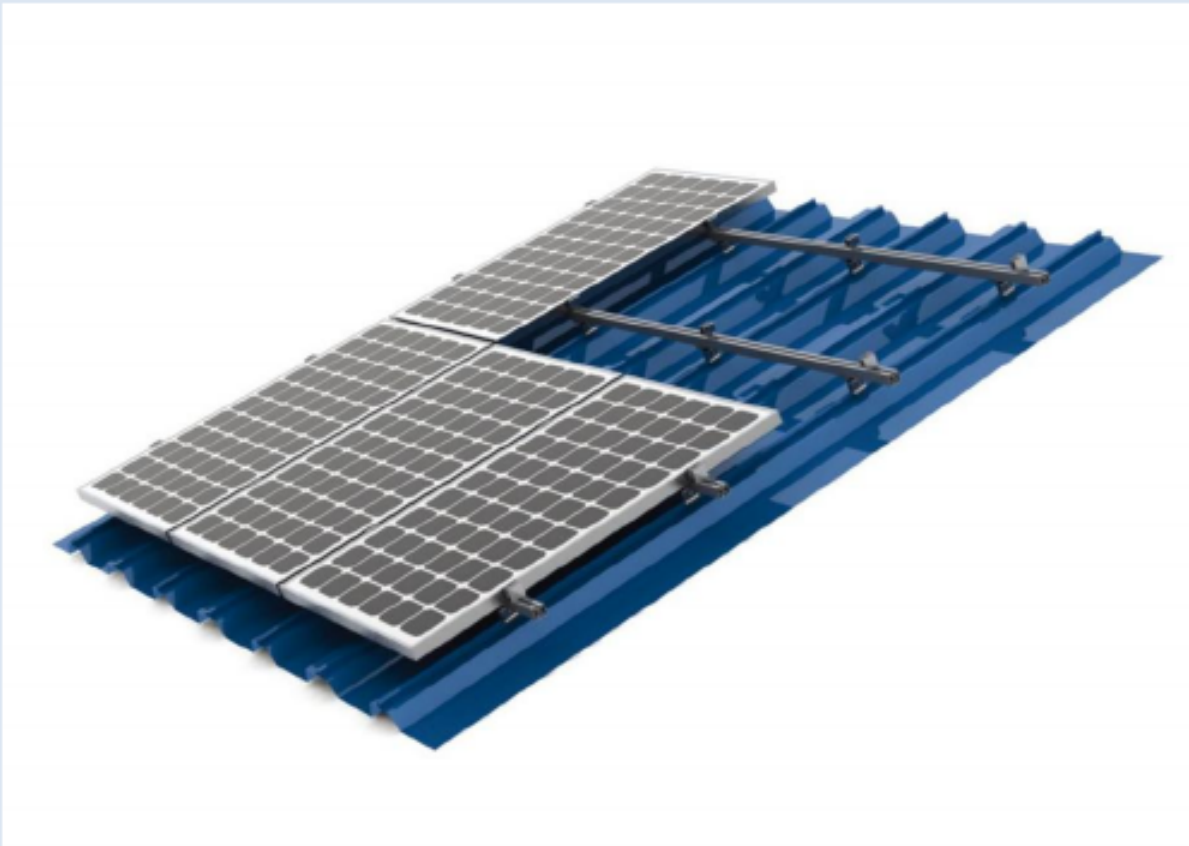
APEX CUSTOMER TECHNICAL DATASHEET | REV E

ApexRoof Tile Hook Mounting System

Roof-mounted PV racking engineered for fast installation, clean load transfer and project-specific fixing review.

APPLICATION Residential and commercial pitched-roof PV projects	INTERFACE Tile, flat tile, slate tile or asphalt shingle roof by hook selection
TILT 5-45 deg typical roof-mounted project range	WIND Up to 60 m/s

Applied to Tile RoofTile Hook Hook Angle Suitable for Flat or Pitched Roof Panels Layout or Pitched Warranty



Advantages

Apex Advantage

Any Scale, Any Solution. Apex provides project-ready mounting structures, optimized BOM support, engineering documentation and dependable material control for global PV projects.

Reliable Structures. Faster Project Review. Global PV Support.

CUSTOMER TECHNICAL DATASHEET | REV E 2026

ApexRoof Tile Hook Mounting System

Roof-mounted PV racking engineered for fast installation, clean load transfer and project-specific fixing review.

WIND Up to 60 m/s	SNOW Up to 1.6 kN/m2
TILT 5-45 deg typical roof-mounted project range	WARRANTY 12-year product warranty

Design Envelope

Parameter	Min	Max	Condition
Tilt	0 deg	45 deg	Flush/tilt system by roof type
Rail span	Project	By calculation	Purlin, hook or ballast spacing
Wind uplift	Project	60 m/s basis	Roof zone and edge distance
Interface	Clamp/hook	Ballast/fixing	Roof profile verification

Core Specification

Item	Specification
Application	Residential and commercial pitched-roof PV projects
Interface	Tile, flat tile, slate tile or asphalt shingle roof by hook selection
Tilt	5-45 deg typical roof-mounted project range
Wind	Up to 60 m/s; roof zone, hook spacing and fixing pattern by structural review

Materials / Compliance / Warranty

Item	Specification
Material	AL6005-T5 anodized aluminium rails; SUS304 fasteners; EPDM/sealing parts by roof condition
Design Basis	ASCE 7-16 / 7-22; IBC 2021 / 2024; EN 1991 / EN 1993 / EN 1999; AS/NZS 1170; JIS C8955 / GB 50009 by project
Warranty Profile	Mechanical structure: 12-year limited; corrosion protection and design life target by exposure class and order scope.

Apex engineering support: layout drawing, structural calculation basis, optimized BOM, packing list and material documentation.

PROJECT DESIGN INPUT SHEET

Project Design Input Sheet

Site wind profile

Snow zoning

Module datasheet

Corrosion class C3/C4/C5

Roof profile

Purlin/rafter layout

Roof zone

Waterproofing condition

Engineering Output Definition

Item	Specification
Design load envelope	Wind, snow and seismic basis defined for project review.
MTO / BOM	Material take-off and component list prepared by layout.
Drawing pack	Layout, section/detail drawings and installation reference by order scope.
Fixing schedule	Roof zone, clamp/hook spacing and waterproofing interface reviewed.

Roof Model Focus

Uplift load path, roof interface, rail span, purlin/rafter spacing and waterproofing detail control final fixing schedule.

Engineering calculation entry

Submit design inputs to define load envelope, model assumptions, MTO and drawing pack.

Request Apex EPC review for load envelope, structural assumptions, MTO and drawing pack.

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Engineering Technical Controls

Item	Specification
Wind	Up to 60 m/s; roof zone, hook spacing and fixing pattern by structural review
Snow	Up to 1.6 kN/m2; final rail span and hook spacing by project
Tilt	5-45 deg typical roof-mounted project range
Material	AL6005-T5 anodized aluminium rails; SUS304 fasteners; EPDM/sealing parts by roof condition
Design Basis	ASCE 7-16 / 7-22; IBC 2021 / 2024; EN 1991 / EN 1993 / EN 1999; AS/NZS 1170; JIS C8955 / GB 50009 by project
Warranty Profile	Mechanical structure: 12-year limited; corrosion protection and design life target by exposure class and order scope.

Components



Tile Hook 1



Universal Clamp Kit
H28-46



Inter Clamp Kit



End Clamp Kit



Splice for MA Rail



MA Rail



MA Rail H60

Optional Hook Type



Tile Hook 1



Slate Tile Hook - 02



Slate Tile Hook - 04



Tile Hook Kit



Tile Hook H120



Adjustable Tile Hook 1



Tile Hook 3



Alu Tile Hook E



Flat Tile Hook H107



Adjustable Tile Hook H132



Tile Hook H132



Tile Hook H145