



Kesri Metal Limited

Manufacturers & Exporters of Aluminium Extruded Products,
Specialising in Development, Manufacturing & Procurement
of Aluminium Solar Module Mounting Structures

PRECISION **ALUMINIUM** SOLAR MOUNTING SYSTEMS

ENGINEERED FOR A
SUSTAINABLE TOMORROW



CLEAN ENERGY
GREEN ENERGY



STRONGER
COMMUNITIES



A SUSTAINABLE
PLANET

PRODUCT **CATALOG**

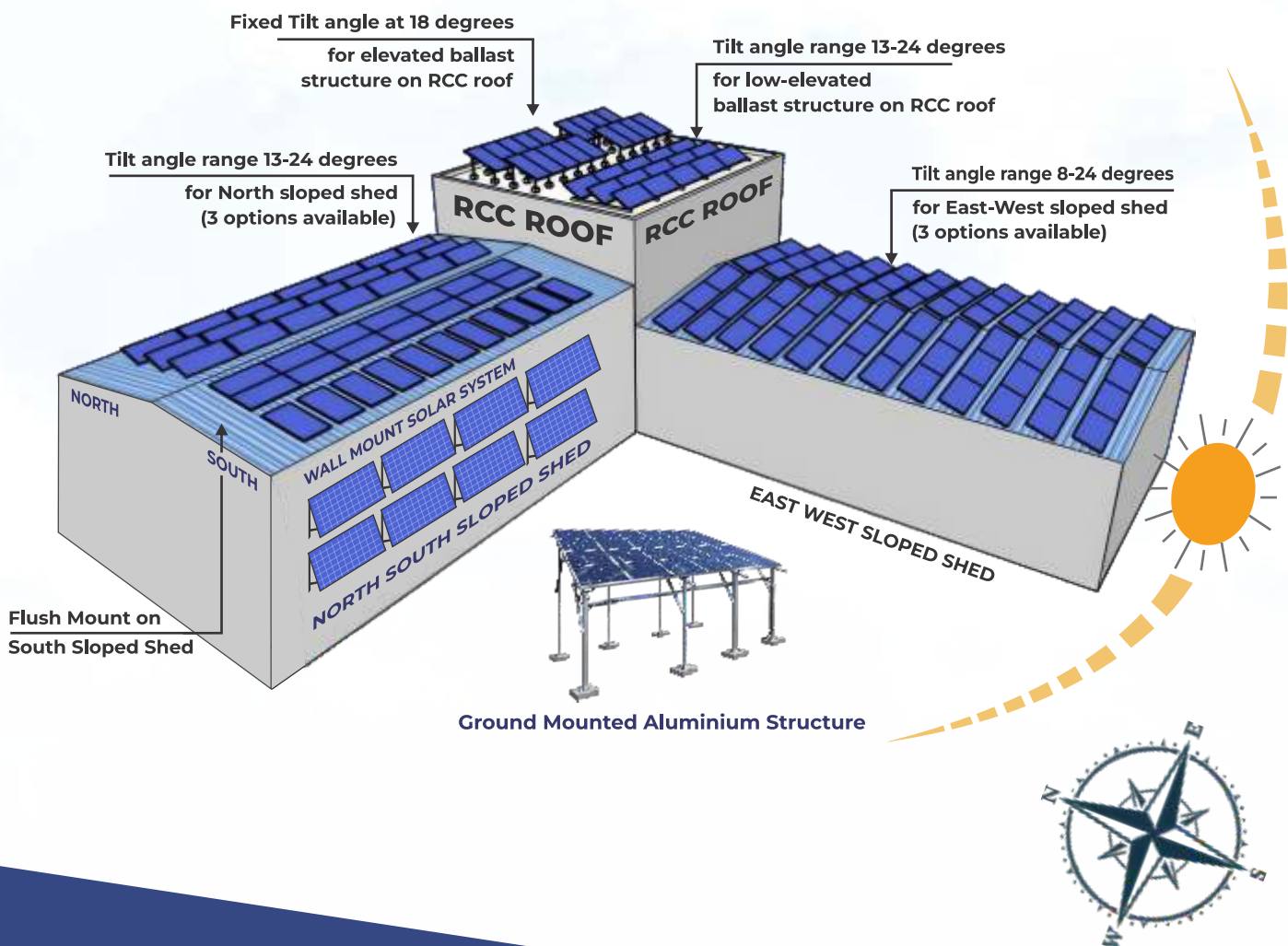


POWERING
A BRIGHTER
TOMORROW

Kesri Metal Limited

Manufacturers & Exporters of Aluminium Extruded Products

Specialising in Development, Manufacturing & Procurement
of Aluminium Solar Module Mounting Structure



*From Rooftop to
Ground Mounted
Aluminium Solar Mounting Structures
We Build a Cleaner, Greener Future*



CLEAN ENERGY



STRONGER
COMMUNITIES



A SUSTAINABLE
PLANET

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Kesri Metal Limited

**Precision Aluminium Solar Mounting Systems
& Engineered Clamp Assemblies**



**AL 6063-T6
High Structural
Tensile Alloy**



**SS 304 Fasteners
Galvanic Corrosion
Isolation**



**30+ Years Service Life
20 Years Manufacturer's
Warranty**

Corporate Overview

With over 40 years of industrial manufacturing excellence, Kesri Metal Limited (KML) is a leading Indian manufacturer of precision-engineered Aluminium Module Mounting Structure (MMS) systems. We combine advanced & computerized tooling, and modern solar structural engineering to deliver field-tested mounting solutions for rooftop, industrial, and ground installations.



The KML Advantage



Fabrication Precision

State-of-the-art Fabrication Machines, tooling & dies delivering strict dimensional tolerances and optimum load-to-weight profile geometry



Structural Reliability

Aerodynamic cross-sections engineered and field tested to resist extreme wind uplift forces, dead loads, and thermal stress



Direct OEM Velocity

Fully integrated in-house cutting and CNC fabrication ensures reliable project delivery cycles



Galvanic Isolation

Anodized finish paired with 304 grade stainless steel prevents bi-metallic galvanic reaction for 30+ years



Universal Interface

Modular design compatible with Mono Rail / Micro Rail, Strut Channel, Tata Rail, V Rail, & Mini Rail.



100% Recyclable

Produced using 100% recyclable 6063 aluminium alloys, supports green building ratings and carbon footprint reduction



40+ years Industry Legacy

40+ years of aluminium manufacturing expertise with unmatched knowledge in aluminium metallurgy and extrusion



Engineering Excellence

Innovative designs optimized for high wind loads, structural stability and rapid installation



Supply Chain Velocity

Integrated manufacturing ensures competitive pricing and on-time delivery

- **Durability:** High-grade anodized aluminium for maximum life span in harsh environments.
Structural Reliability for Rooftop, Ground, and Utility-Scale PV Installations
- **Precision-Engineered Solar Mounting Solutions & Clamp Accessories**
- **We work closely with our clients to understand their technical & project requirements and provide solutions that are simple, practical, efficient & best suited to their specific needs**
- **We build lasting partnerships by delivering dependable aluminium products & solutions**

Kesri Metal Limited

Precision Aluminium Solar Mounting Systems
& Engineered Clamp Assemblies

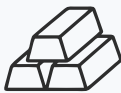
Aluminium Module Mounting Structure (MMS) Solutions Matrix

Engineered structural systems tailored for residential, commercial / industrial sheds, flat RCC decks, and vertical facade PV arrays.

Installation Surface	Mounting Solution	Tilt Angle	Orientation	Key Benefits
Metal Roofing / Tin Shed (Flush Mount)	Flush Mount (Mono or Micro Rail / Mini Rail / Tata Rail / V Rail / Long Rail / Strut Channel)	Parallel to Roof	Landscape / Portrait	Ultra-lightweight & aerodynamic
Metal Roofing / Tin Shed (Inclined / Tilt Mount)	KML Inclined System	8°–13° (Custom upto 28°) (N-S) / 4°–8° (Custom upto 23°) (E-W)	Landscape / Portrait	Angle correction on sloped sheds
	Frame Structure (H-Rail)	Fixed 18° Tilt Angle	Landscape / Portrait	Elevated & seasonal flexibility
	Adjustable Tilt Angle (Telescopic)	Variable 15°–24°	Landscape / Portrait	Elevated & seasonal flexibility
Asbestos Roof Sheet	Flush Mount (Long Rail / Strut Channel)	Parallel to Roof	Landscape / Portrait	Load-distributed roof safety
Flat RCC Rooftop	Ballast System (Non-Penetrative)	13° (Custom upto 28°)	Landscape	Zero membrane puncture
	Frame Structure (H-Rail)	Fixed 18° Tilt	Landscape / Portrait	Under-panel maintenance access
	Elevated Frame Structure (H Rail / H-H Rail)	Fixed 18° (Elevated Clear)	Landscape / Portrait	Maximizes usable floor space
Sloping RCC Rooftop	Flush Mount Long Rail System	Parallel to Deck	Landscape / Portrait	Direct concrete anchor fixation
Wall Mount / Facade	Vertical Telescopic System	Variable 15°–24° Tilt	Landscape / Portrait	Parapets & building facades
Ground Mounted	Elevated Frame Structure (H-H Rail)	Fixed 18° (Elevated Clear)	Landscape / Portrait	Maximizes usable ground space

Alloy Specification

Aluminium Alloy 6063-T6 Grade



Surface Treatment

Anodized finish



Fasteners & Hardware

Stainless Steel SS 304



Quality & Warranty

Comprehensive Warranty
30+ Years Design Life | 20 Years



Wind Load Rating

Up to 180 km/h (Field Validated)



Sustainability

100% Recyclable Aluminium Alloys



Kesri Metal Limited

Precision Aluminium Solar Mounting Systems
& Engineered Clamp Assemblies

SOLAR CLAMPS & HARDWARE ASSEMBLIES

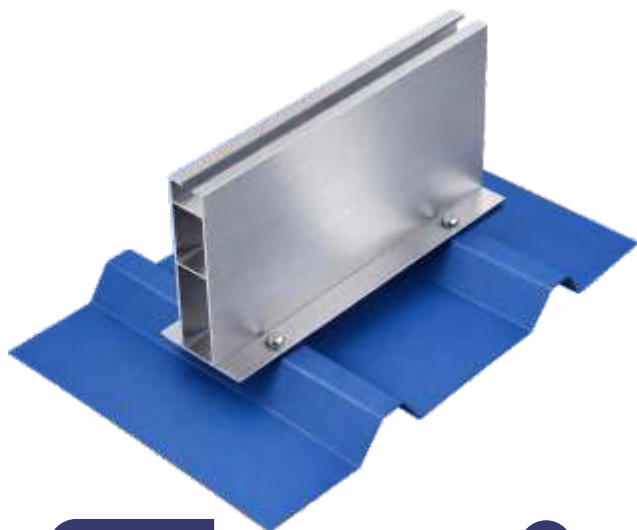
KML Solar clamps are supplied as factory pre-assembled hardware kits
(with **Aluminium T-Nut / Spring Nut / Anti Theft Nut bolts** to reduce site installation time by over 40% and prevent on-site component shortages.

Products	Product Type	Hardware & Fastener/ Material Grade	Compatibility
	Mid Clamp Assembly Dual-Panel Center Clamp	Alu T-Nut / Spring Channel Nut / Anti-Theft Nut & Bolt Set AL 6063-T6 + SS 304	Framed PV Modules (30, 35, 40 mm)
	End Clamp Assembly Perimeter Module Lock	Alu T-Nut / Spring Nut / Anti-Theft Nut & Bolt Set AL 6063-T6 + SS 304 / SS 316	Framed PV Modules (30, 35, 40 mm)
	Double-Hole Heavy Clamp with SS U-Bolt High-Vibration & Extra safety Setup	Clamp Fitted with SS 304 U-Bolt & SS Flange Fasteners AL 6063-T6 + SS 304	Heavy Duty Struts & Industrial Channels
	Solar Grip Clamp Sub-Frame Anchorage	Structural anchoring hardware assembly (SS / Pre Galvanized) High Tensile SS 304 / Pre Galvanized	Purlins, Girders & C/Z Channel Sections
	C-Clamp & SS J-Hook Sub-Frame Anchorage	Structural anchoring hardware assembly (SS / Pre Galvanized) High-Tensile SS 304 / Pre Galvanized	Purlins, Girders & C/Z Channel Sections



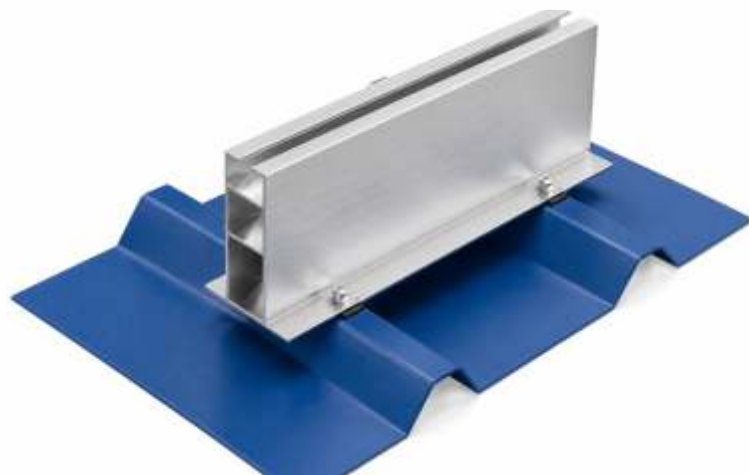
FLUSH MOUNT

MONO RAILS



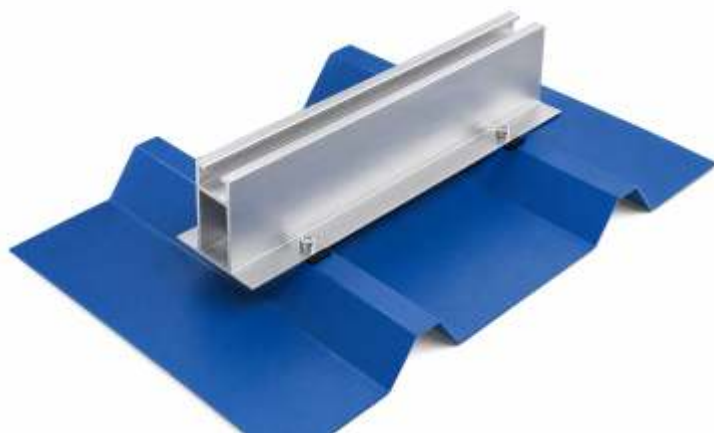
H150

301



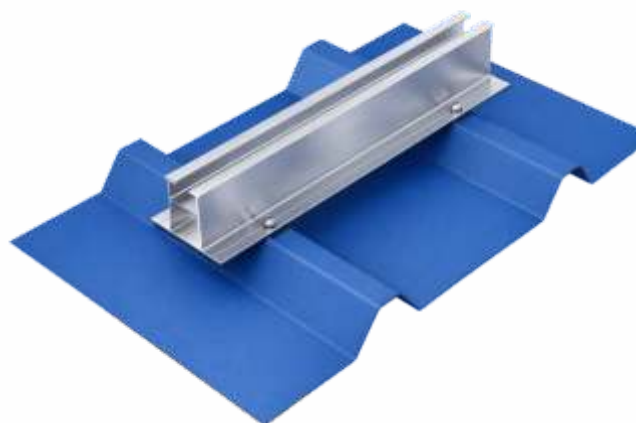
H100

302



H65

303



H45

304



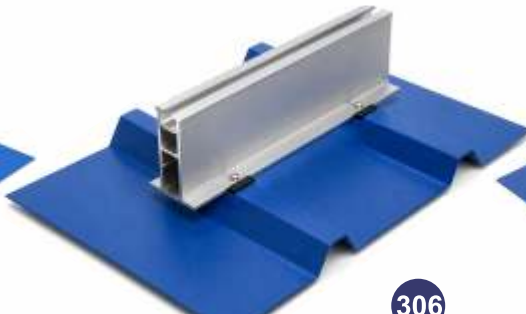
FLUSH MOUNT

MONO RAILS



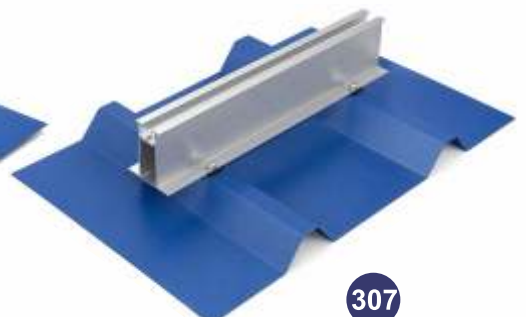
H100, Lite

305



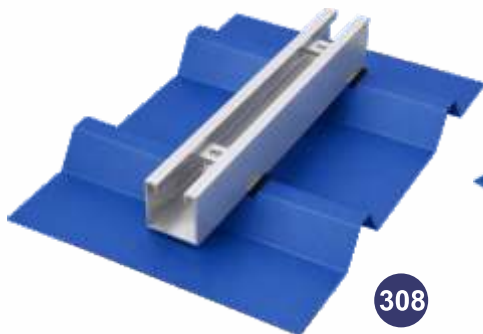
H80 Lite

306



H60 Lite

307



Strut Channel, 41x41

308



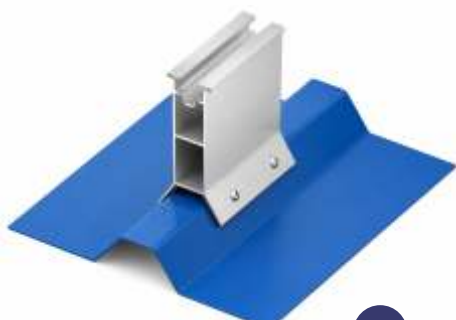
Strut Channel, 41x41

309



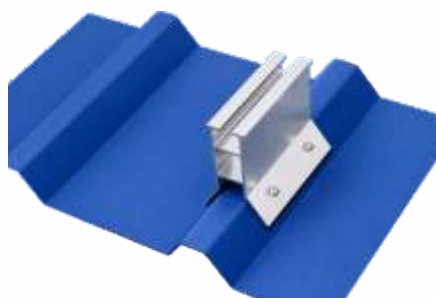
V Rail H75

310



Mini Rail, H120/100

311



Mini Rail, H90/65

312



Tata Rail, H100

313



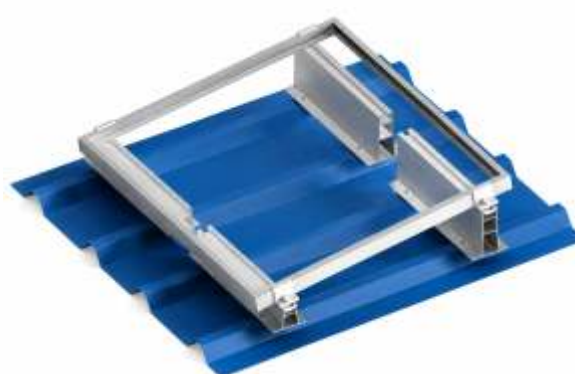
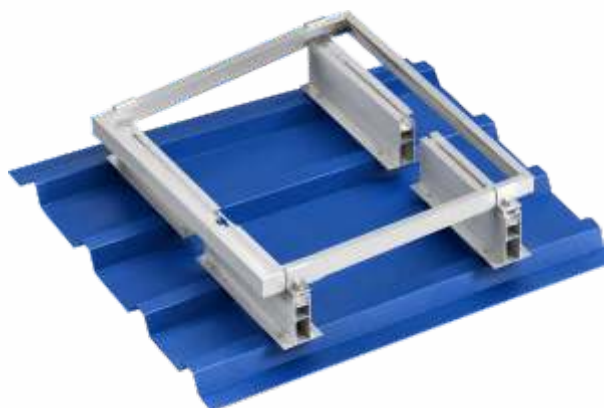
FLUSH MOUNT MONO RAILS



Our present range of
MONO RAILS

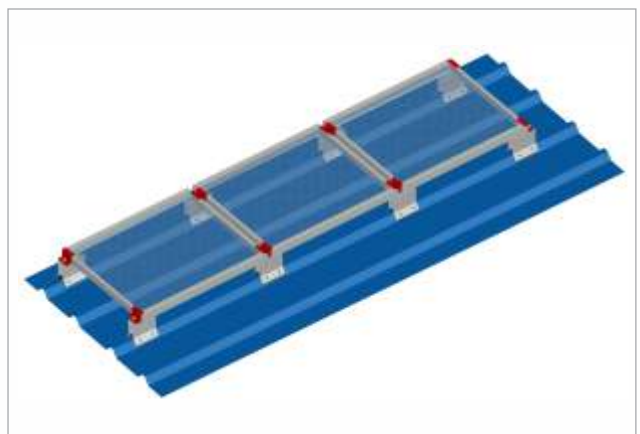
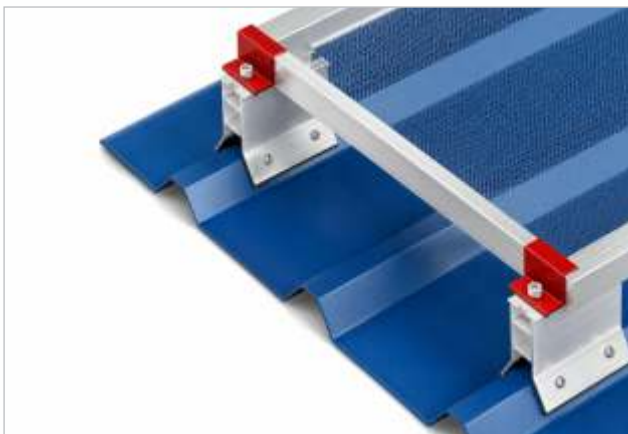


FLUSH MOUNT - MONO RAIL





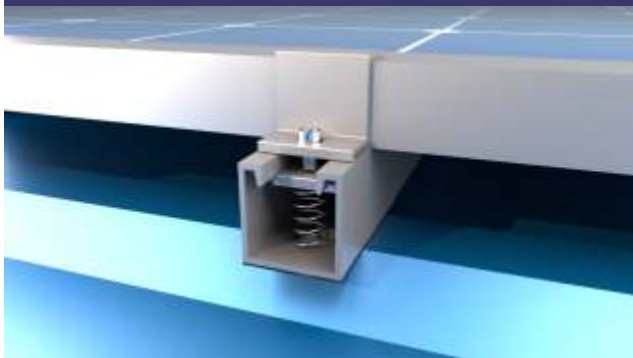
FLUSH MOUNT - MINI RAIL



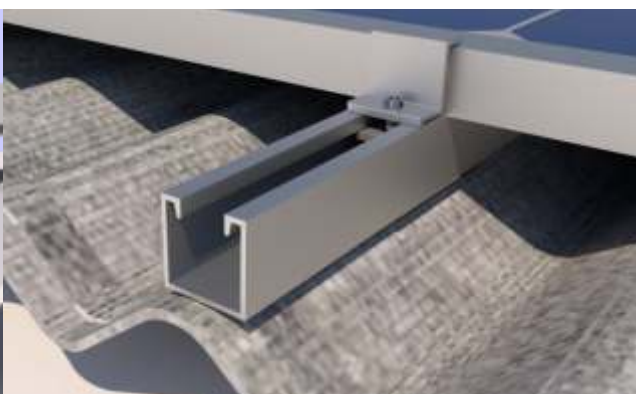
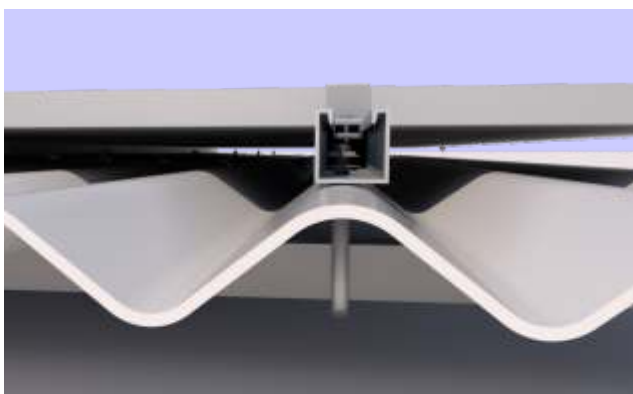
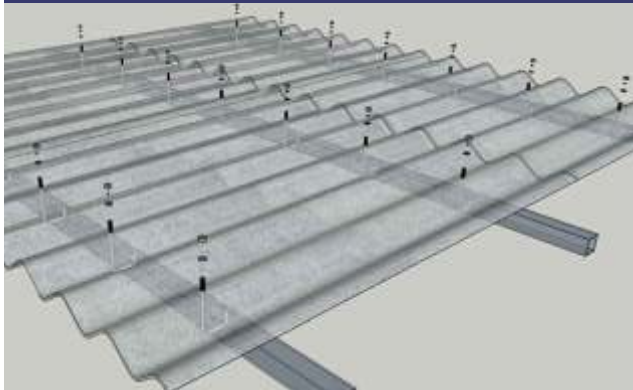


FLUSH MOUNT

STRUT CHANNEL ON METAL ROOFING SHEET

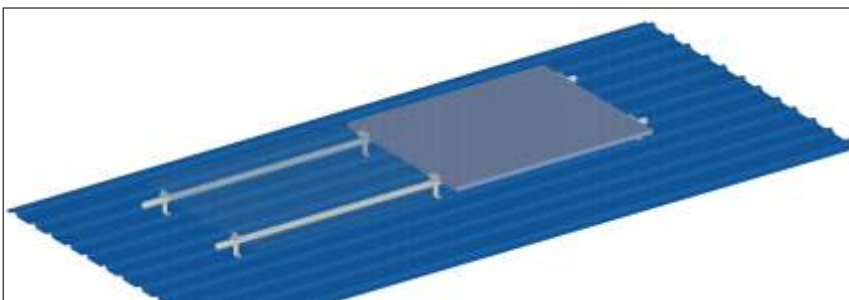
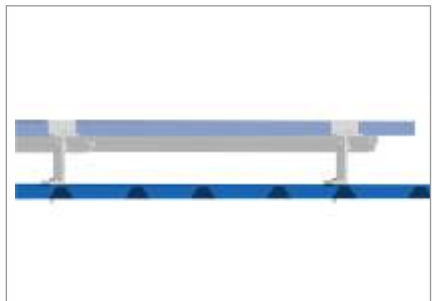


STRUT CHANNEL ON ASBESTOS SHEET





FLUSH MOUNT - LONG RAIL (METAL ROOFING SHEET)





FLUSH MOUNT - LONG RAIL (ASBESTOS SHEET)



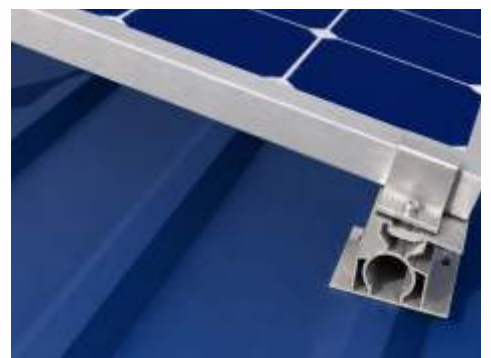
**INCLINED MOUNT
AT 8, 13, 23 & 28 DEGREES**



**North Inclined
Solar Mounting structure**

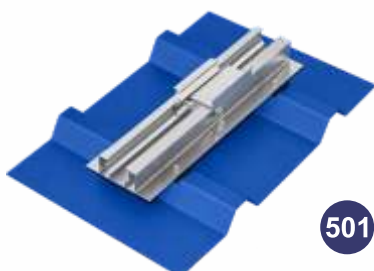


**East-West Inclined
Solar Mounting structure**



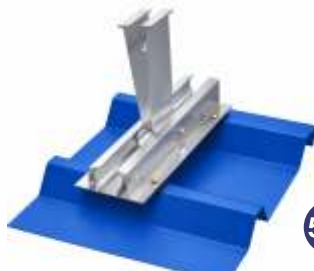
NORTH INCLINED MOUNT AT 8, 13, 23 & 28 DEGREES

NORTH INCLINED at 8 degrees tilt



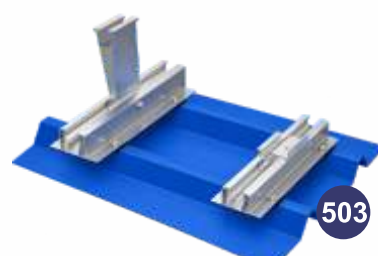
501

BASE RAIL
with Front Support (H 29mm)



502

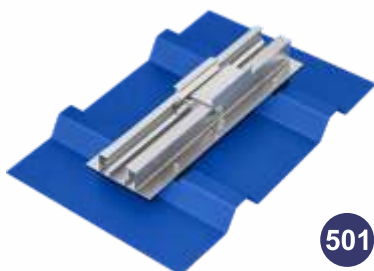
BASE RAIL
with Back Support (H 158mm)



503

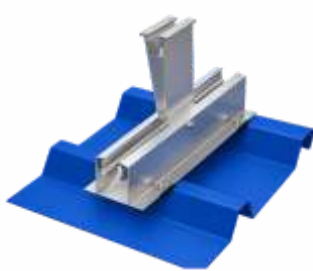
NORTH INCLINED SYSTEM
at 8 degrees tilt

NORTH INCLINED at 13 degrees tilt



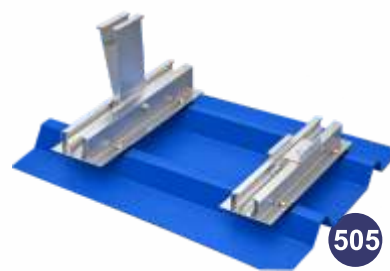
501

BASE RAIL
with Front Support (H 29mm)



504

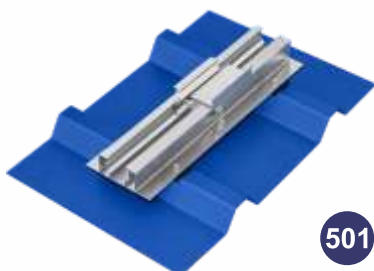
BASE RAIL
with 13D Back Support (H 210mm)



505

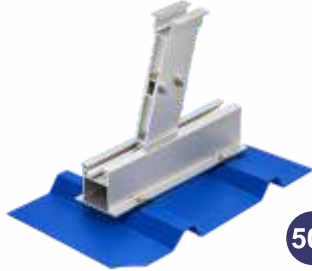
NORTH INCLINED SYSTEM
at 13 degrees tilt

NORTH INCLINED at 23 degrees tilt



501

BASE RAIL
with Front Support (H 29mm)



506

BASE RAIL
with 23D Back Support (H 333mm)



507

NORTH INCLINED SYSTEM
at 23 degrees tilt

NORTH INCLINED at 28 degrees tilt



501

BASE RAIL
with Front Support (H 29mm)



508

BASE RAIL
with 28D Back Support (H 385mm)



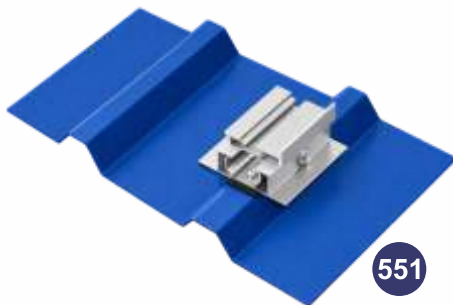
509

NORTH INCLINED SYSTEM
at 28 degrees tilt

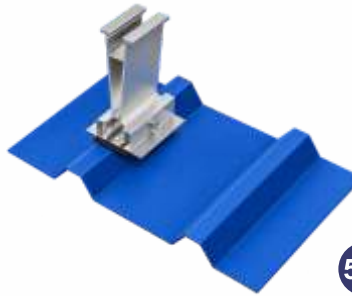
EAST-WEST INCLINED MOUNT AT 8, 18 & 23 DEGREES



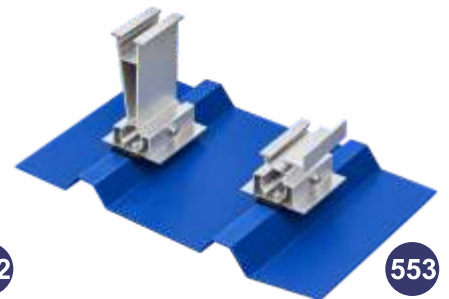
EAST-WEST INCLINED at 8 degrees tilt



BASE RAIL
with Front Support



BASE RAIL
with Back Support

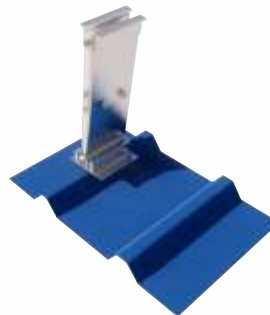


E-W INCLINED SYSTEM
at 8 degrees tilt

EAST-WEST INCLINED at 18 degrees tilt



BASE RAIL
with Front Support



BASE RAIL
with 18D Back Support

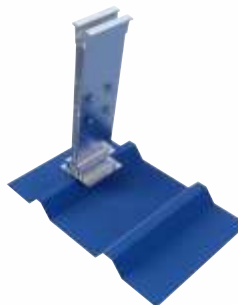


E-W INCLINED SYSTEM
at 18 degrees tilt

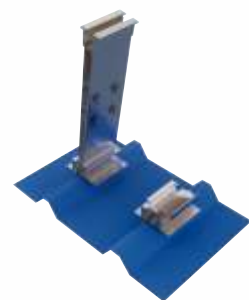
EAST-WEST INCLINED at 23 degrees tilt



BASE RAIL
with Front Support



BASE RAIL
with 23D Back Support



E-W INCLINED SYSTEM
at 23 degrees tilt

EAST-WEST INCLINED MOUNT AT 8, 13 & 23 DEGREES



Riveting for East-West Inclined System

EAST-WEST INCLINED at 8 degrees tilt



551

BASE RAIL
with Front Support



558

BASE RAIL
with Back Support



559

E-W INCLINED SYSTEM
at 8 degrees tilt

EAST-WEST INCLINED at 13 degrees tilt



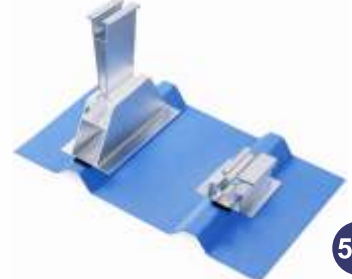
551

BASE RAIL
with Front Support



560

BASE RAIL
with 13D Back Support



561

E-W INCLINED SYSTEM
at 13 degrees tilt

EAST-WEST INCLINED at 23 degrees tilt



551

BASE RAIL
with Front Support



562

BASE RAIL
with 23D Back Support



563

E-W INCLINED SYSTEM
at 23 degrees tilt

EAST-WEST INCLINED at 28 degrees tilt



551

BASE RAIL
with Front Support



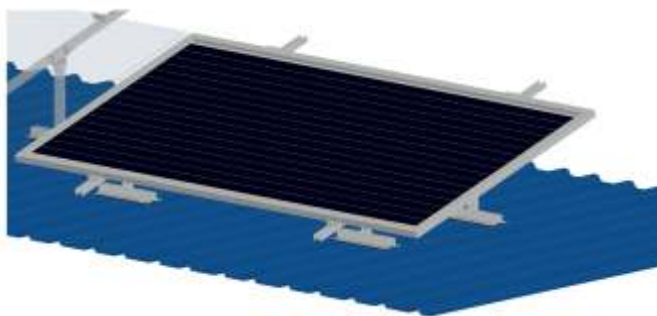
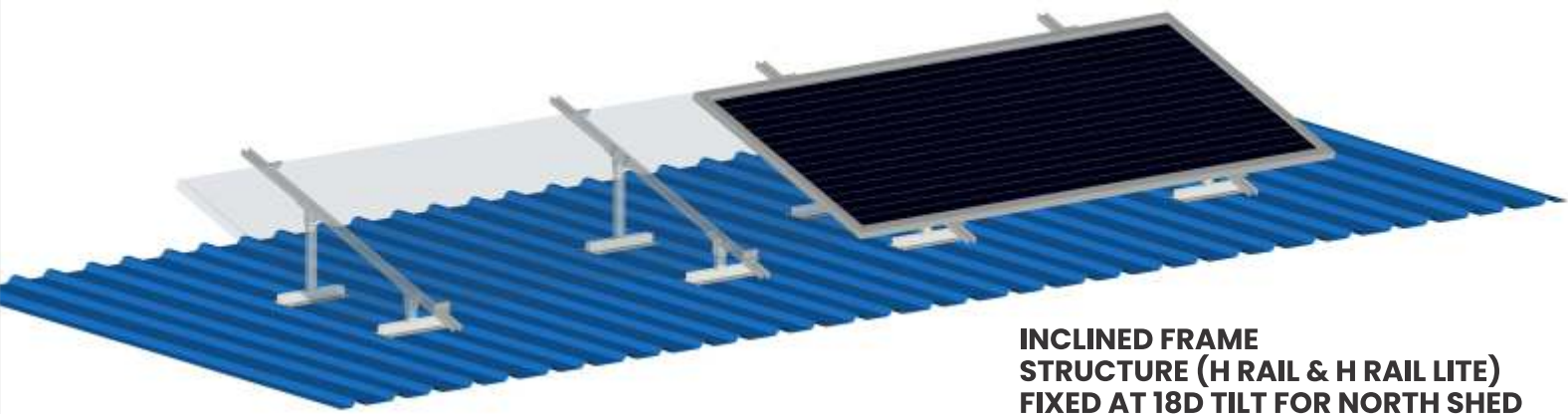
564

BASE RAIL
with 28D Back Support



565

E-W INCLINED SYSTEM
at 28 degrees tilt

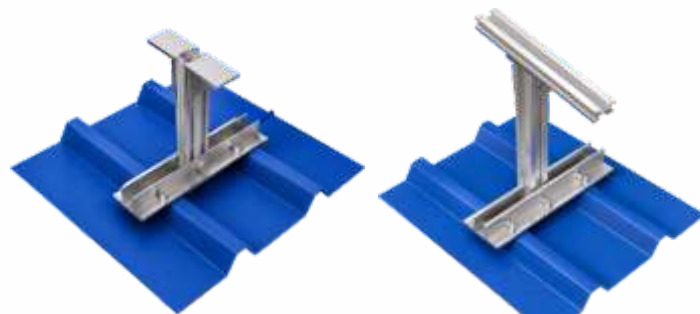
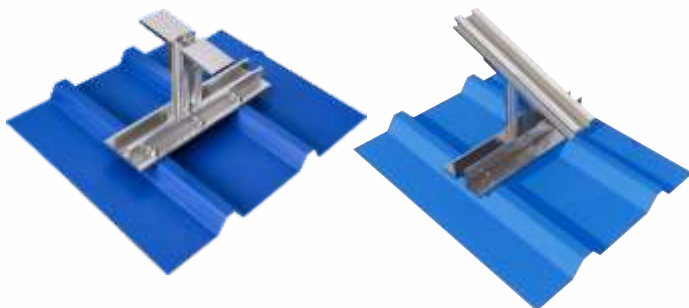


H Rail

H Rail Lite

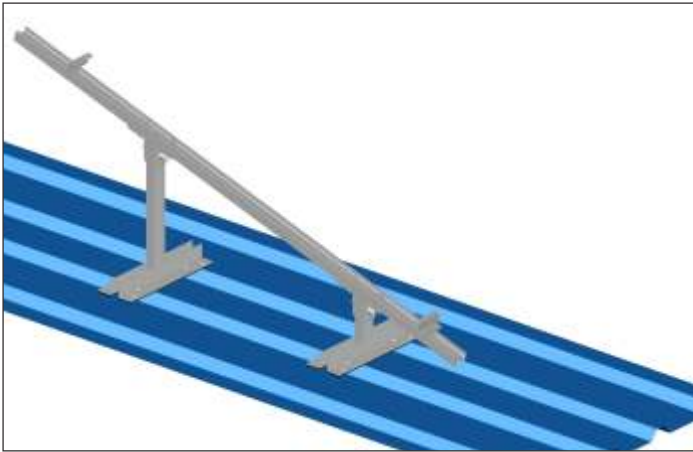
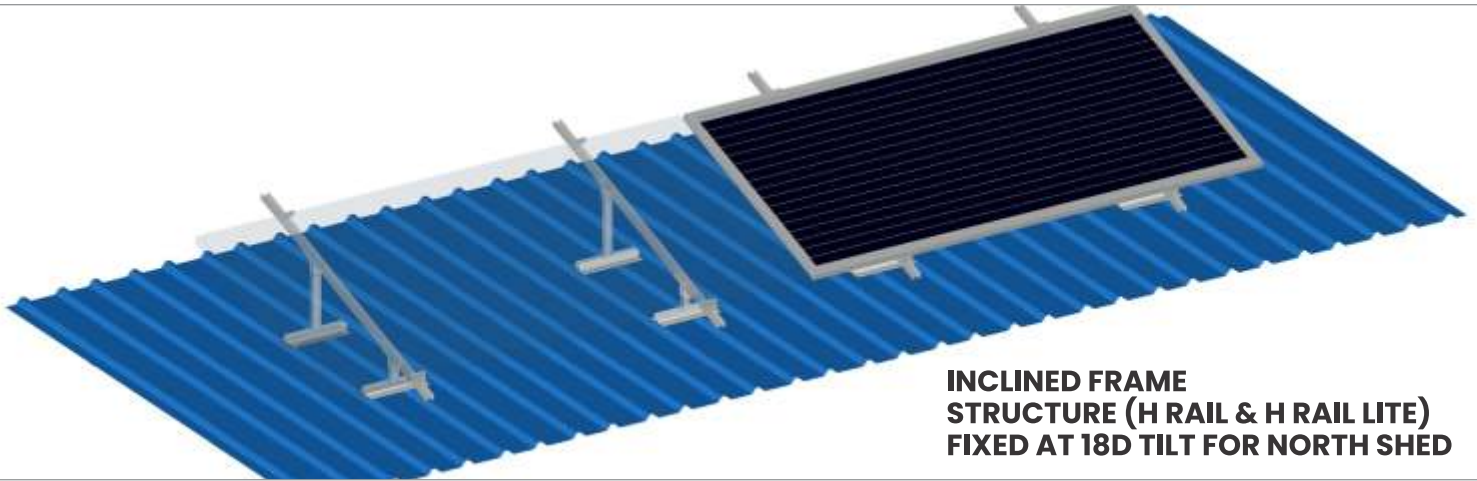
Front Leg Assembly 601

Back Leg Assembly 602



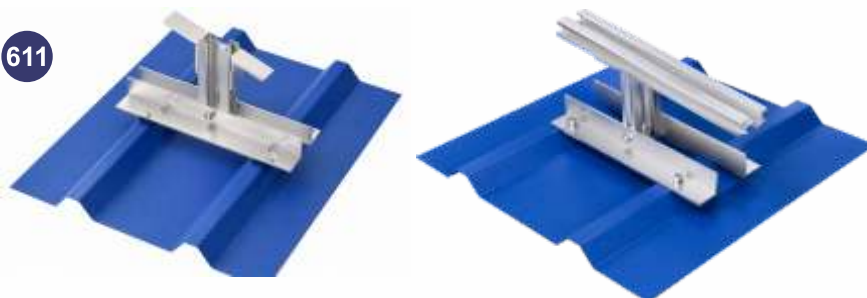
North Inclined Frame Structure at fixed 18 Degrees 603



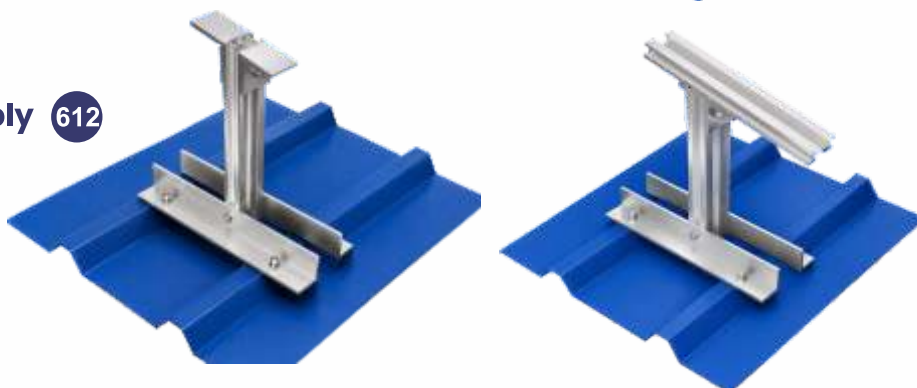


**INCLINED FRAME
STRUCTURE
(H RAIL & H RAIL LITE)
FIXED AT 18D TILT FOR
EAST-WEST SHED**

Front Leg Assembly 611



Back Leg Assembly 612



East-West Inclined Frame Structure at fixed 18 Degrees 613

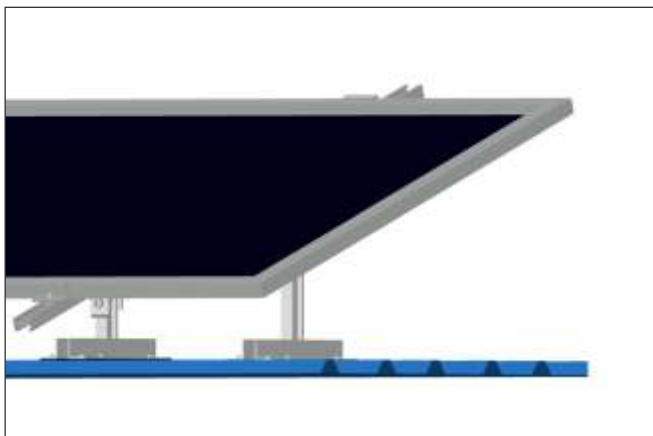
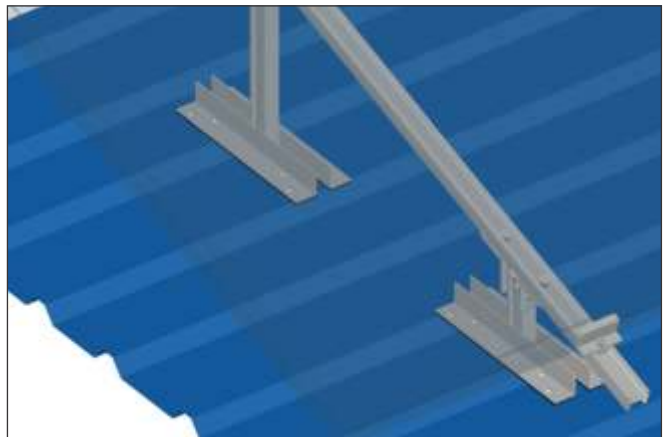
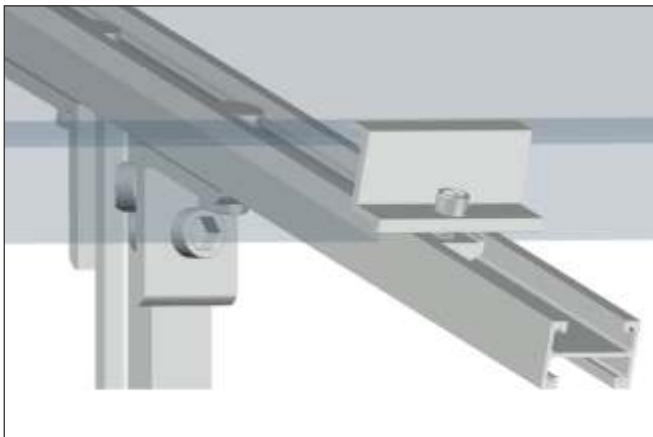
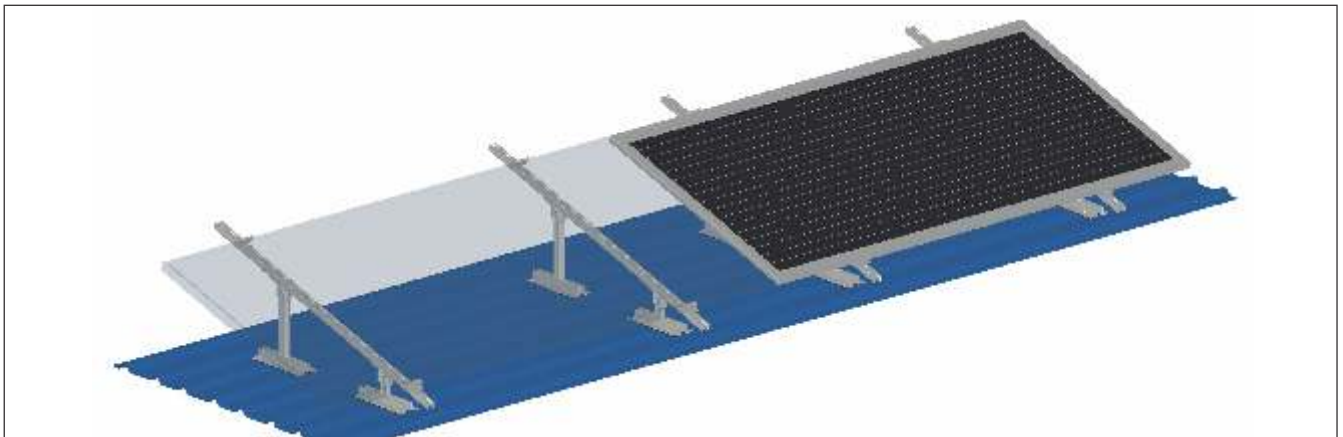


H Rail

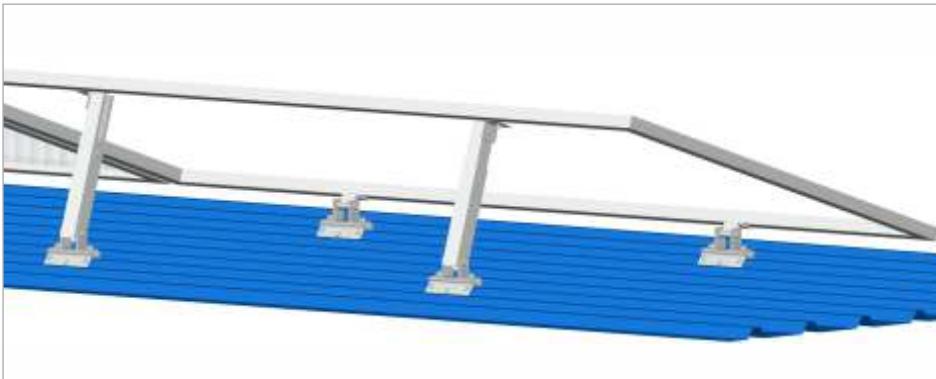
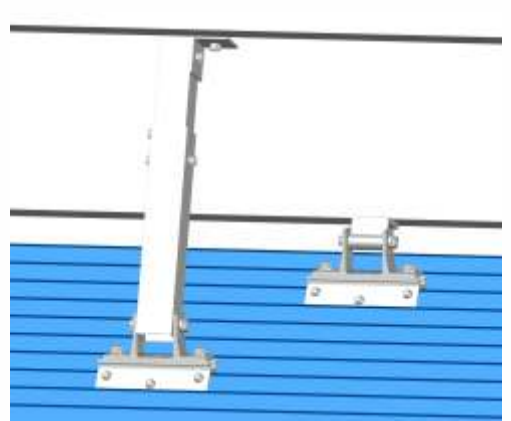
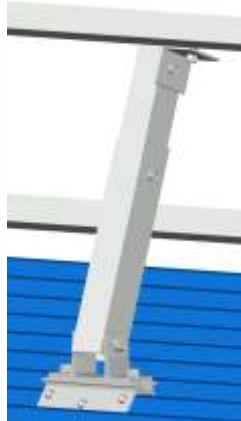
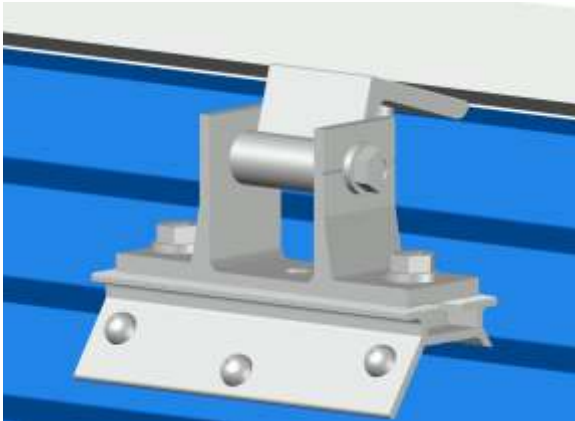
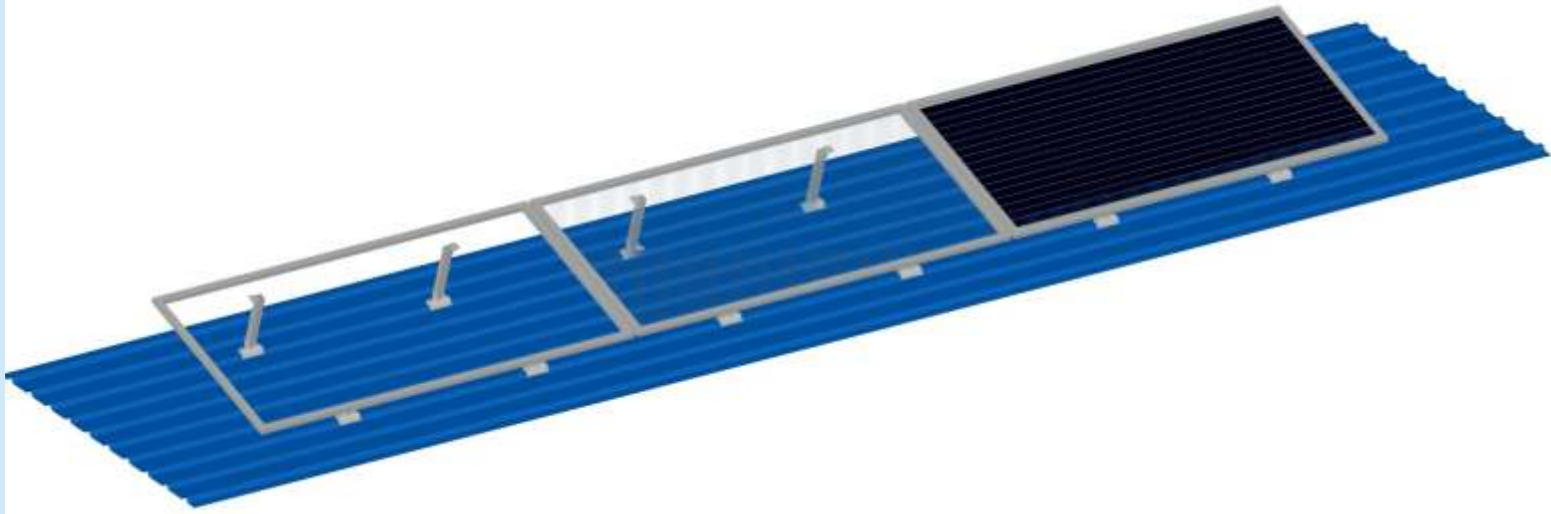
H Rail Lite



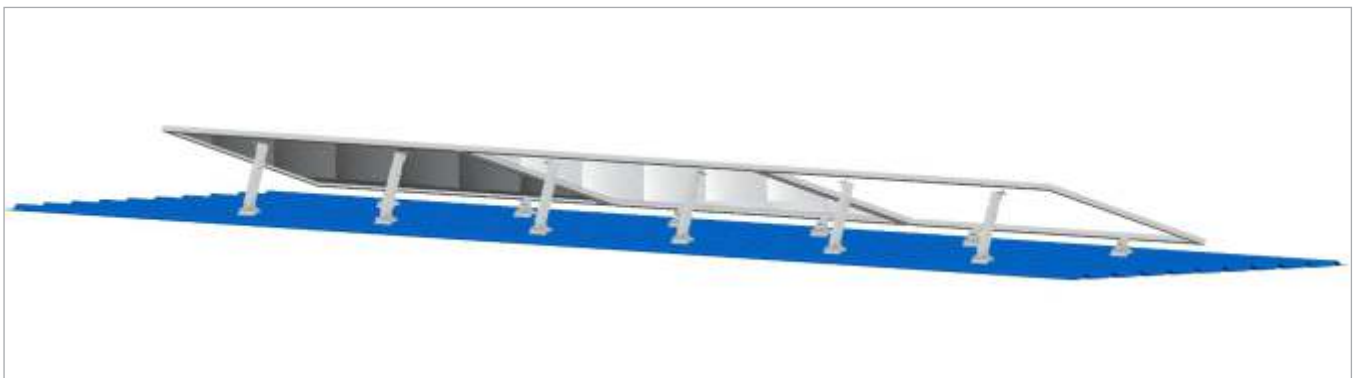
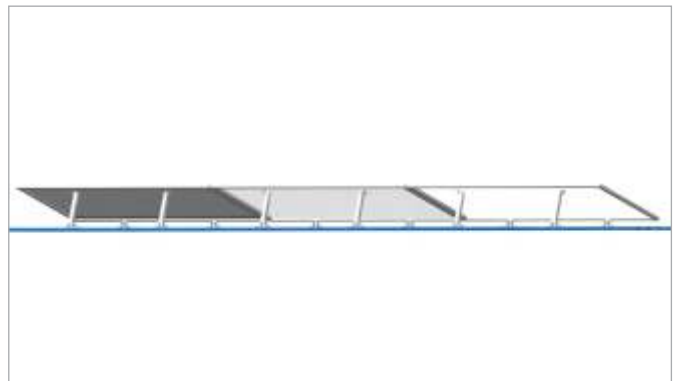
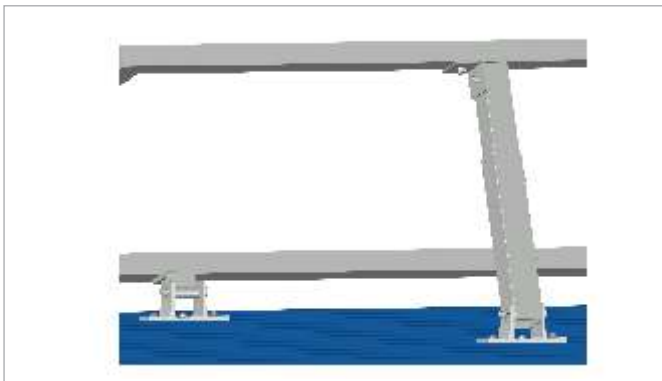
**INCLINED FRAME
STRUCTURE
(H RAIL & H RAIL LITE)
FIXED AT 18D TILT FOR
EAST-WEST SHED**



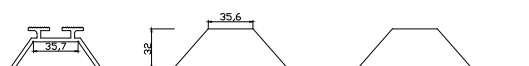
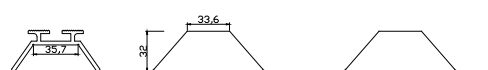
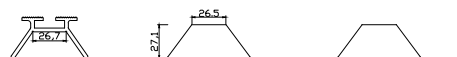
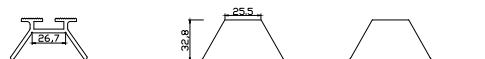
INCLINED MOUNT Telescopic Adjustable Tilt Angle (East-West Shed)



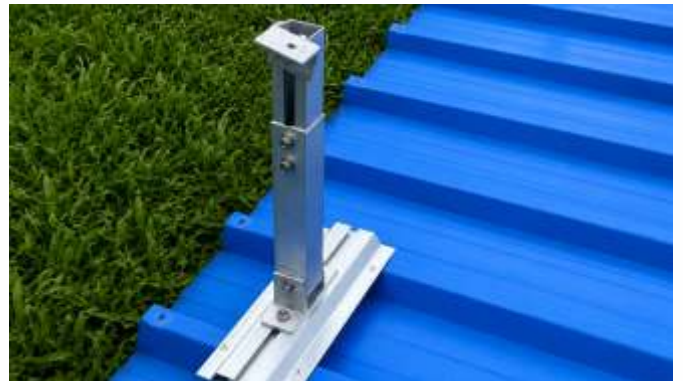
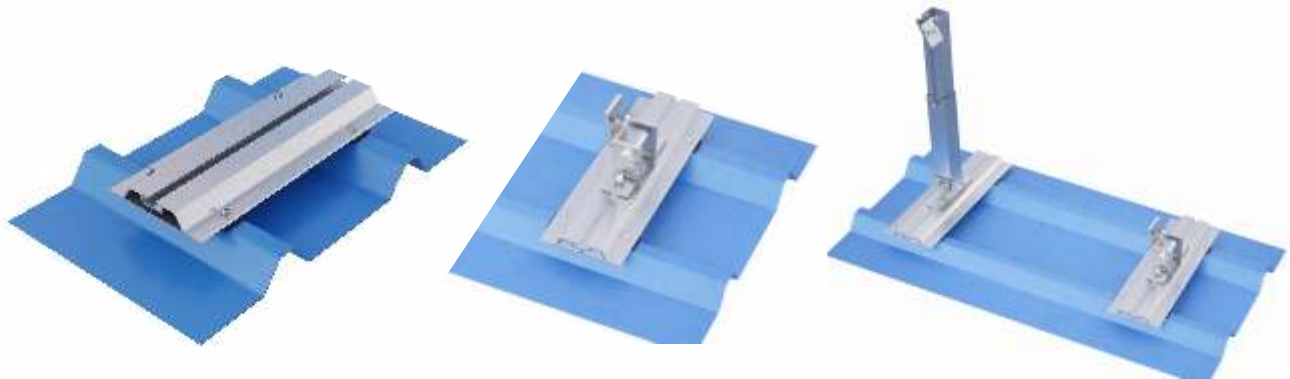
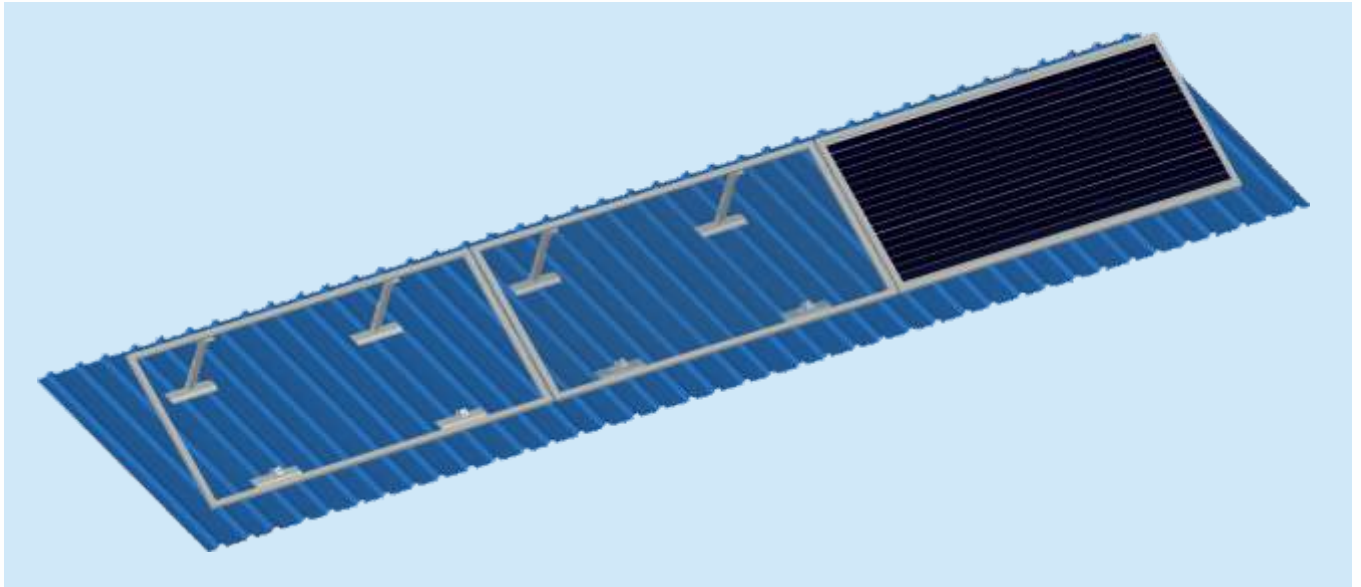
INCLINED MOUNT Telescopic Adjustable Tilt Angle (East-West Shed)



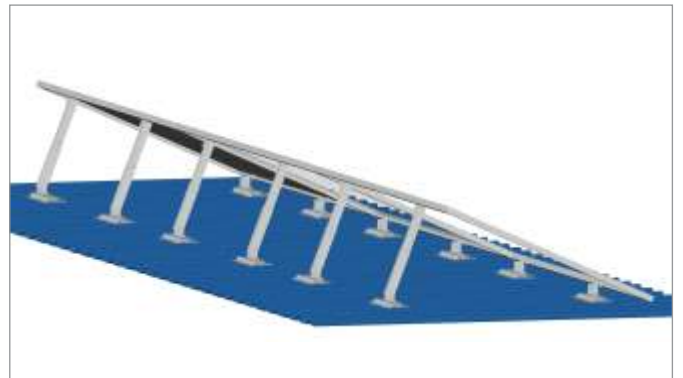
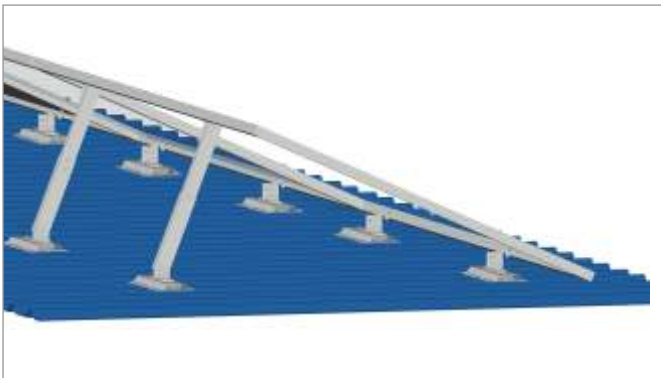
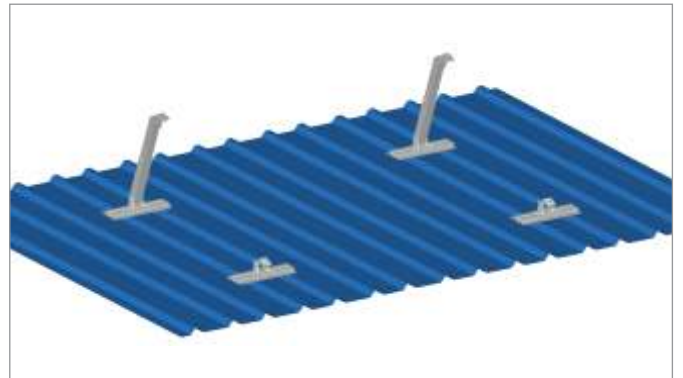
INCLINED MOUNT Telescopic Adjustable Tilt Angle (East-West Shed)



INCLINED MOUNT Telescopic Adjustable Tilt Angle (North Shed)

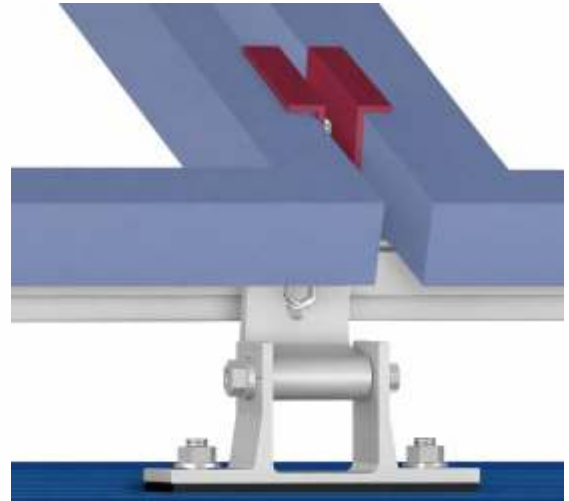
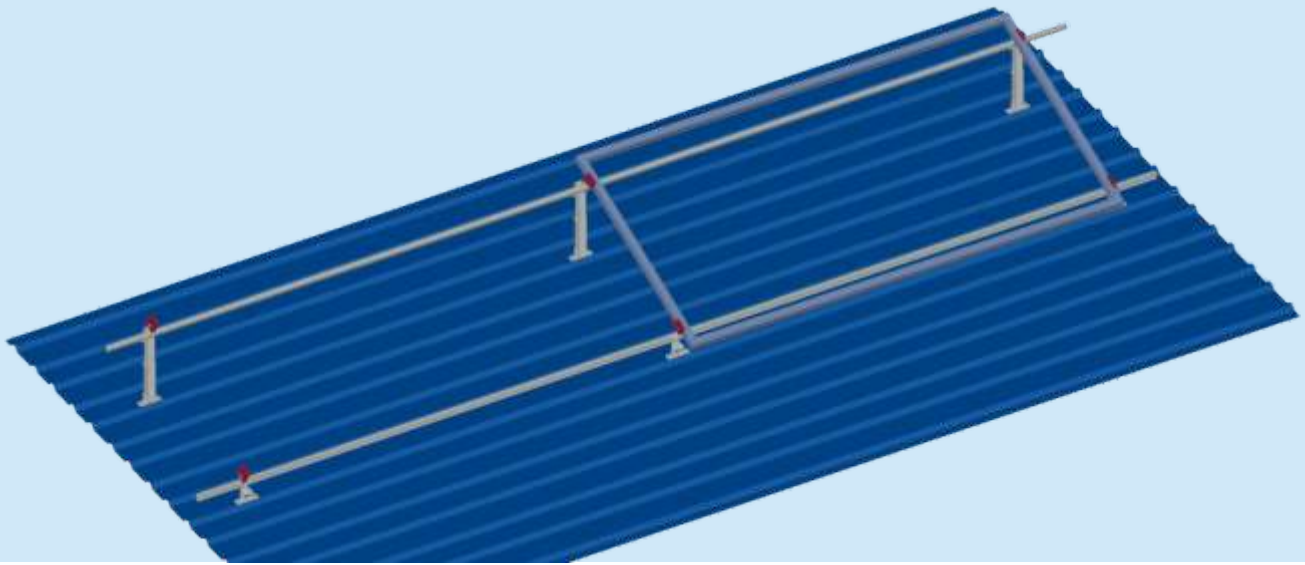


INCLINED MOUNT Telescopic Adjustable Tilt Angle (North Shed)

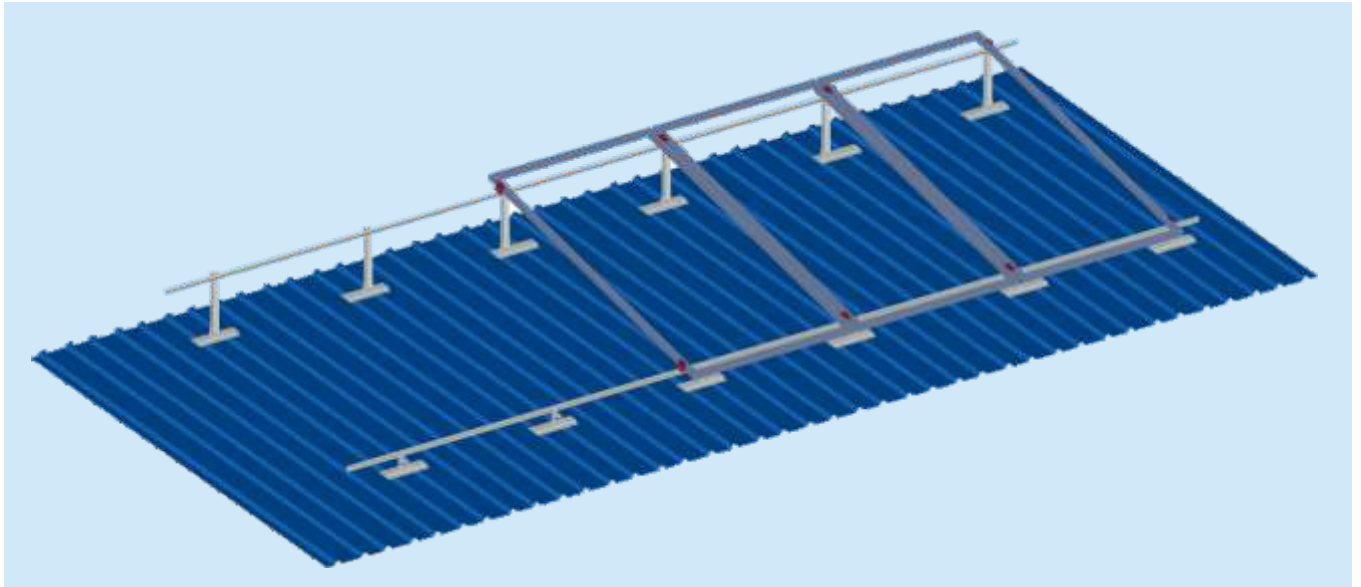


INCLINED MOUNT

Telescopic Adjustable Angle Tilt (With Long Rail) East-West Shed



INCLINED MOUNT Telescopic Adjustable Angle Tilt (With Long Rail) North Shed



BALLAST STRUCTURE FOR FLAT RCC ROOFTOP



701



702



703



704



Front Rail & Front Support

711



712



713



714



715



Back Rail and Back Support

13D

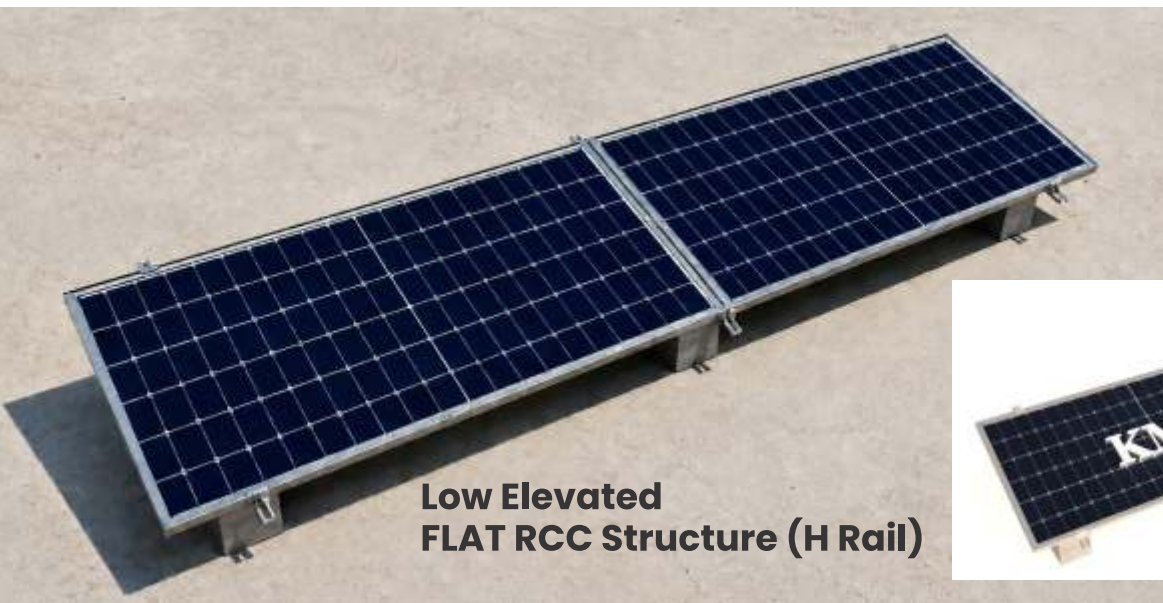
23D

28D

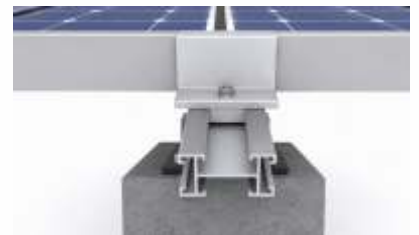
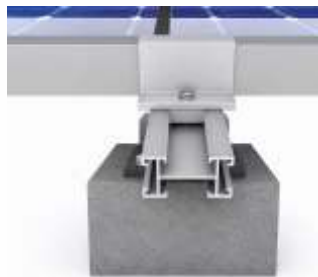
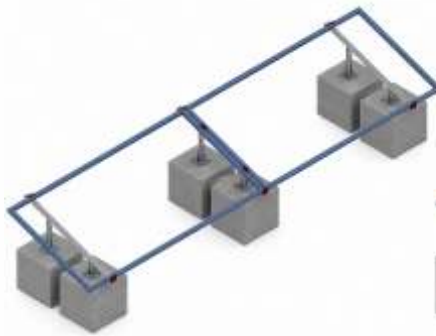


**ADJUSTABLE
AL BALLAST STRUCTURE
FOR FLAT RCC ROOFTOP**





**Low Elevated
FLAT RCC Structure (H Rail)**



**Elevated
RCC Structure
(H-H Rail)**





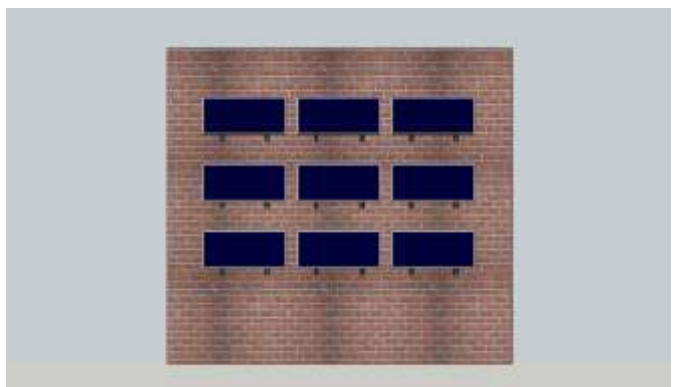
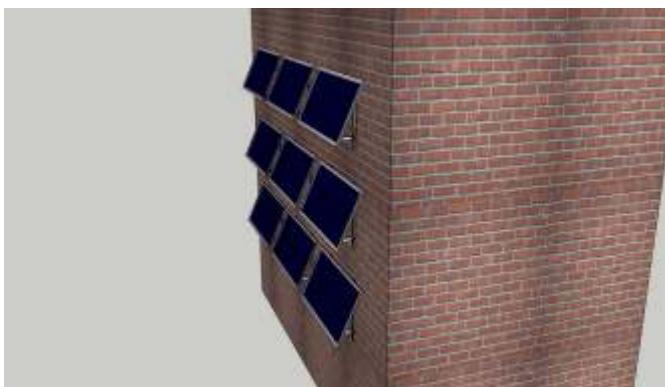
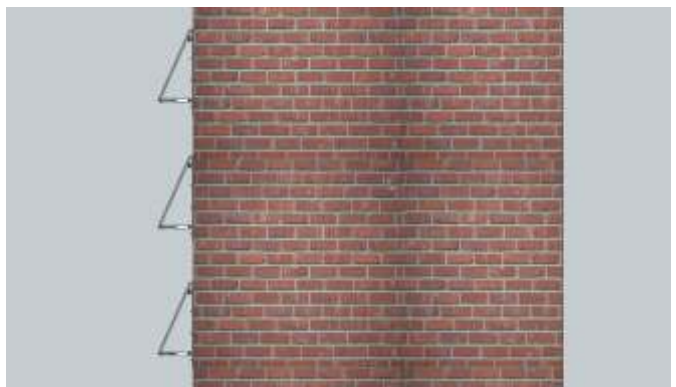
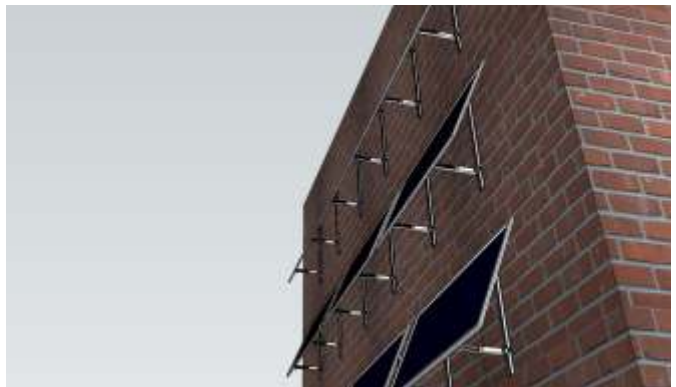
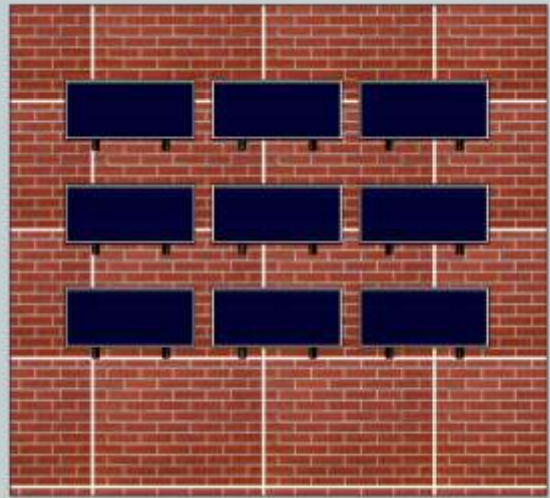
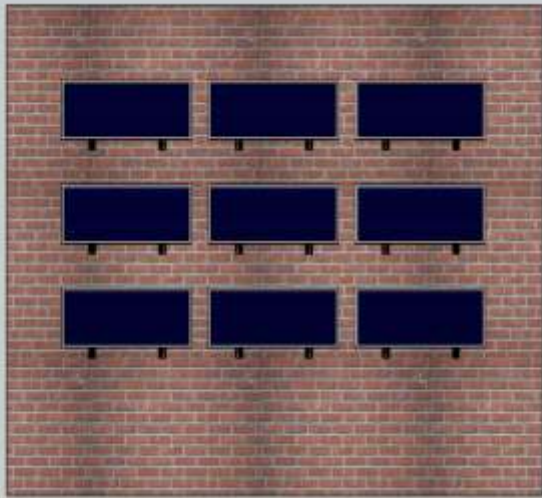
**LOW ELEVATED
FLAT RCC STRUCTURE (TELESCOPIC)**



**LONG RAIL STRUCTURE FOR
SLOPING RCC ROOFTOP**



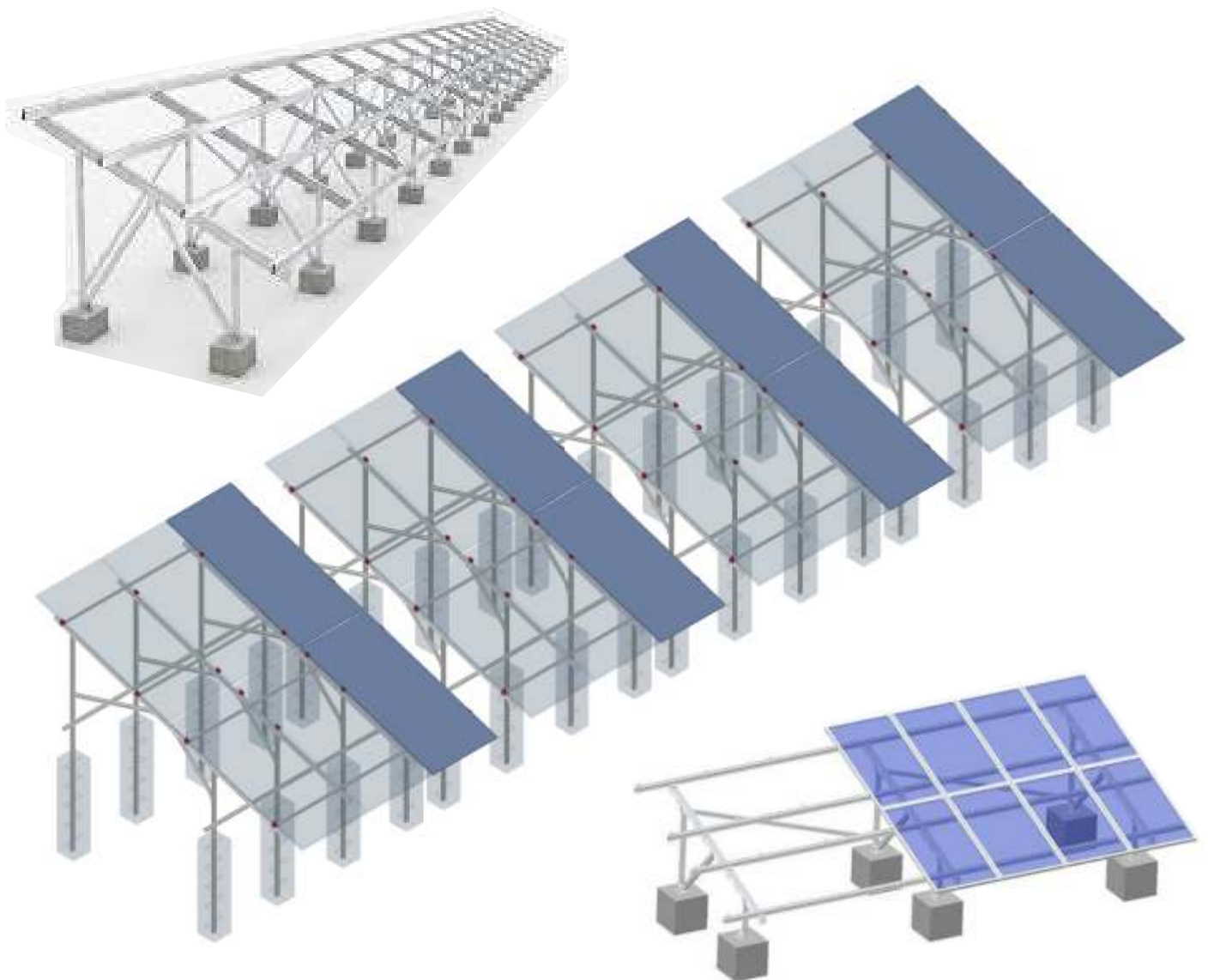
WALL MOUNT Telescopic Adjustable Angle



WALL MOUNT Telescopic Adjustable Angle



GROUND MOUNTED Aluminium Elevated Structure



GROUND MOUNTED Aluminium Elevated Structure

