

— GROUND MOUNTING · CARPORT · TRACKERS · ROOF

Solar mounting systems and accessories

Modulix Industrial Solutions

23

MOUNTING SYSTEMS

0-60°

TILT ANGLE

EN ISO 1461

HOT-DIP GALVANISING

EN AW 6063

ALUMINIUM CLAMPS

— NAVIGATION

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Availability is confirmed for each product.

— QUICK NAVIGATION

Product index

All mounting systems, with the page of each.

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— USER GUIDE

One system. Every detail.

How to read the pages of each system in the catalogue.

1

System overview

The assembly image, product code and application description are grouped on the first page.

2

Specifications and advantages

Mounting method, tilt angle, panel compatibility and standards are given separately for each model.

3

Components and accessories

Parts are numbered so they can be identified in the general view of the system.

4

Installation stages

The illustrated sequence and identification letters follow the technical presentation of each product.

MATERIALS AND COATINGS

Configurations for every project

The range includes aluminium, stainless steel, galvanised steel and Magnelis-coated steel options. Material and coating are chosen according to the system and the project.

1

Aluminium

Clamps, rails and mounting components. EN AW 6063 is indicated for products whose data sheet lists it.

2

Steel and galvanising

Structures, columns, beams and purlins. EN ISO 1461, EN 10025 and EN 10029 are listed for each model where specified.

3

Magnelis

Zinc-aluminium-magnesium coating used to protect steel against corrosion in outdoor applications.

4

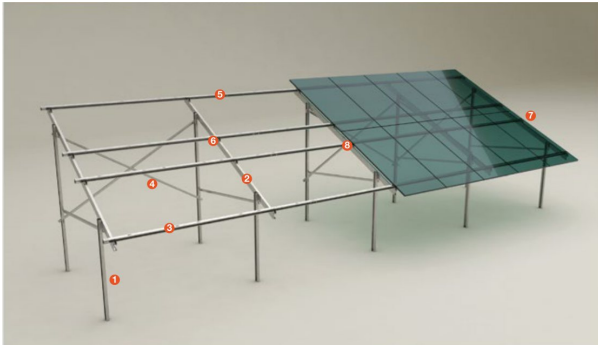
Project configuration

System selection takes into account the terrain or roof, location, wind, snow and the structural requirements of the project.

— SYSTEM RANGE

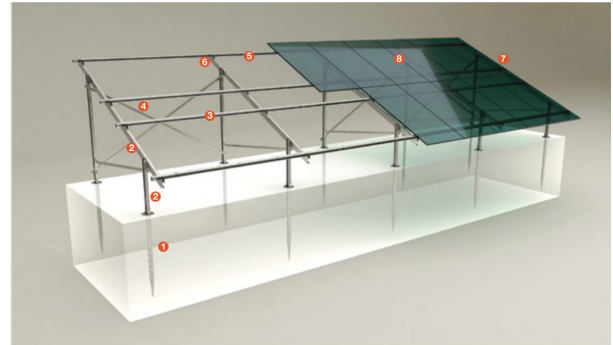
Ground mounting

Structures for vertical or horizontal modules, with a mounting method specific to each model.



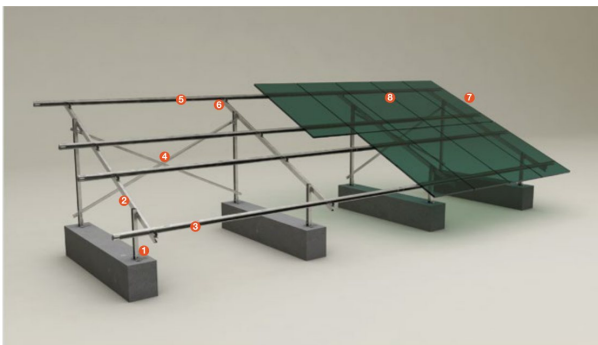
Ground driving

SM01, SM01-B, SM02, SM02-B and SM09.



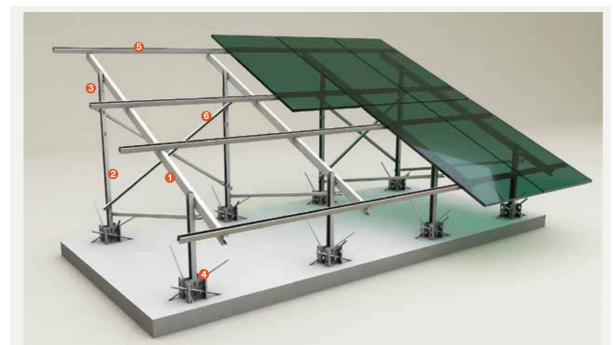
Screw piles

SM03, SM03-B and SM04.



Concrete foundations

SM05, SM06, SM07 and SM08.



Special applications

SM-AAS: adjustable angle. SM-TSS: agricultural irrigation.

02

Ground mounting

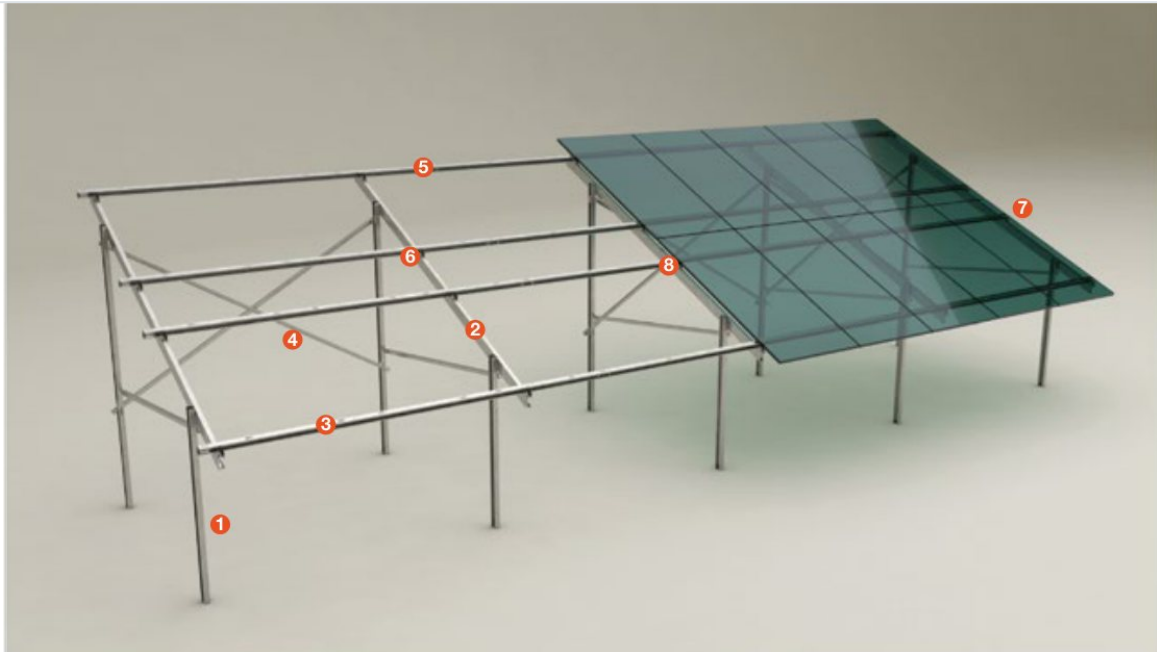
Fixed systems and special applications

Fixed systems for solar panels.

MOUNTING SYSTEM

SM01

Ground-driven steel system, 2 vertical modules



Ground-driven steel support and mounting system for open-field solar panels, with 2 vertical modules. An optimal solution for PV installations on medium and large sites. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ground driving
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

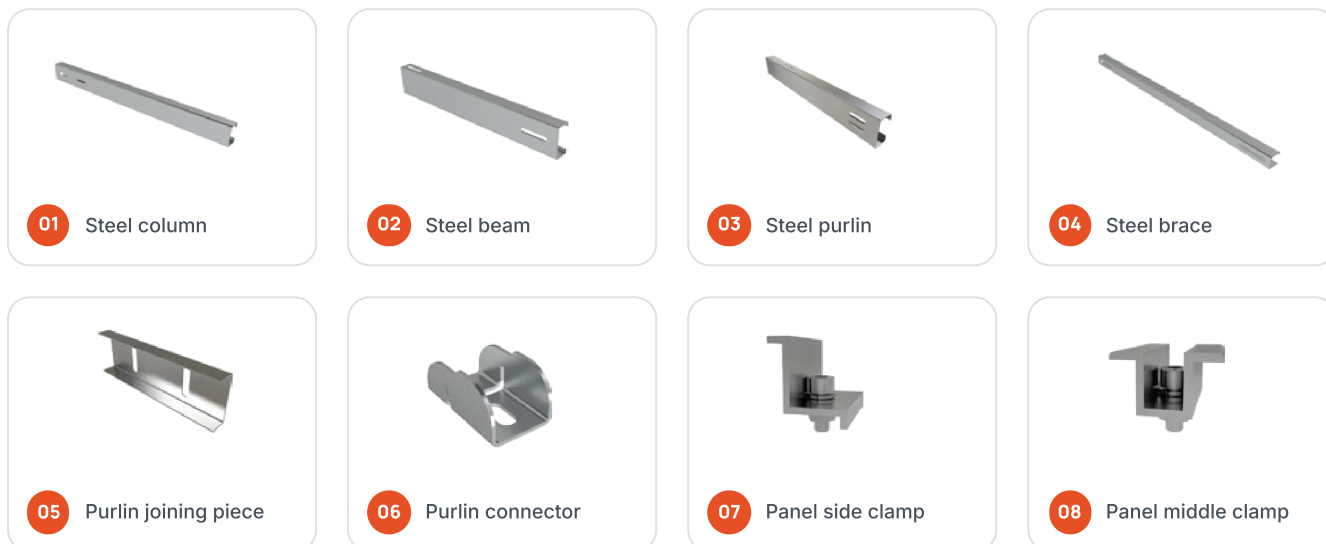
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

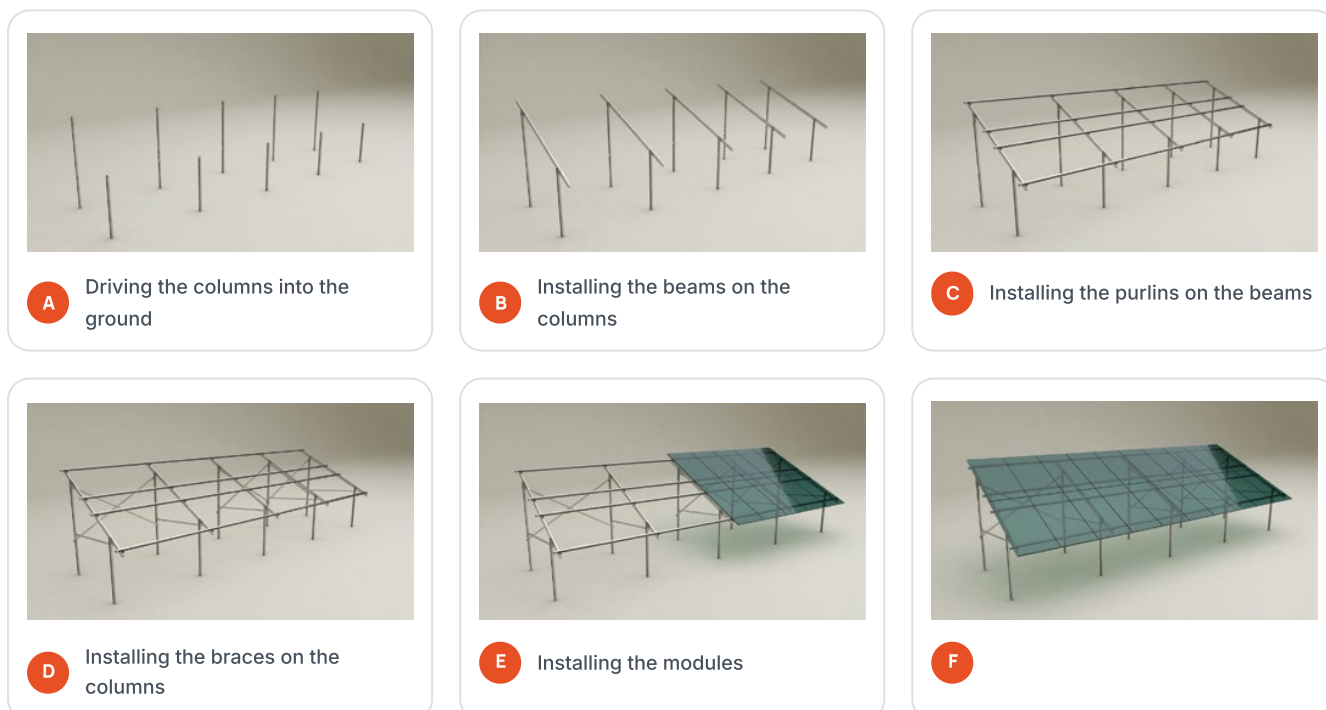
SM01

Components and installation

Components and accessories



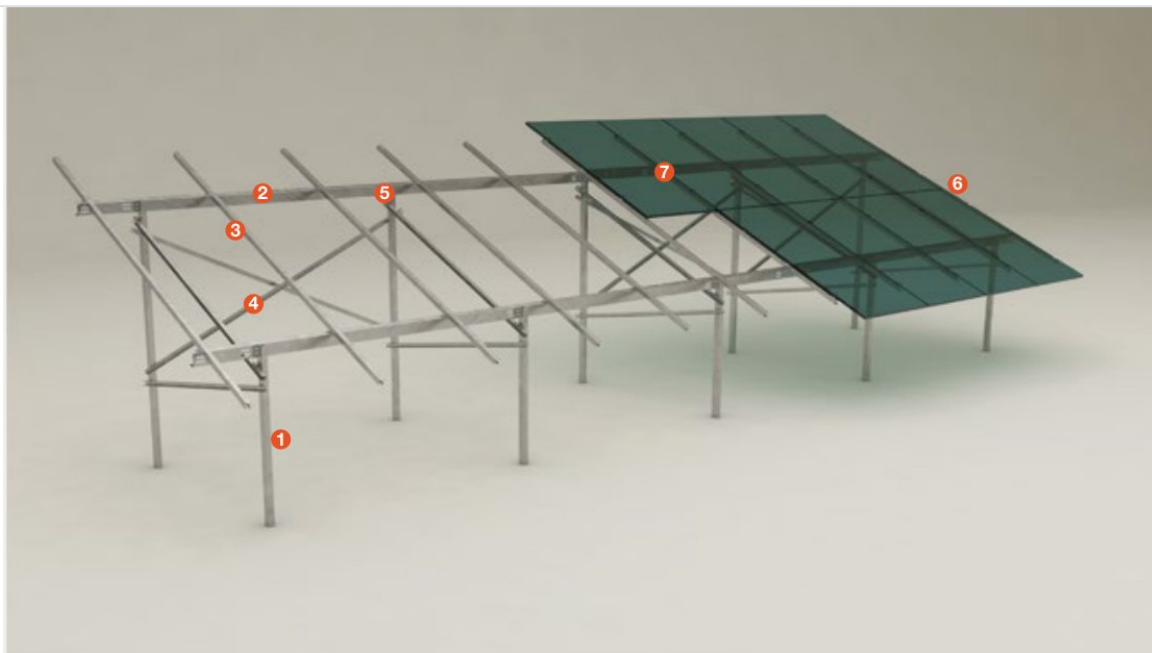
Installation stages



— MOUNTING SYSTEM

SM01-B

Ground-driven steel system, 2 vertical modules



SM01-B

Ground-driven steel support and mounting system for open-field solar panels, with 2 vertical modules. An optimal solution for PV installations on medium and large sites. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ground driving
Tilt angle	20 - 25 - 30 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

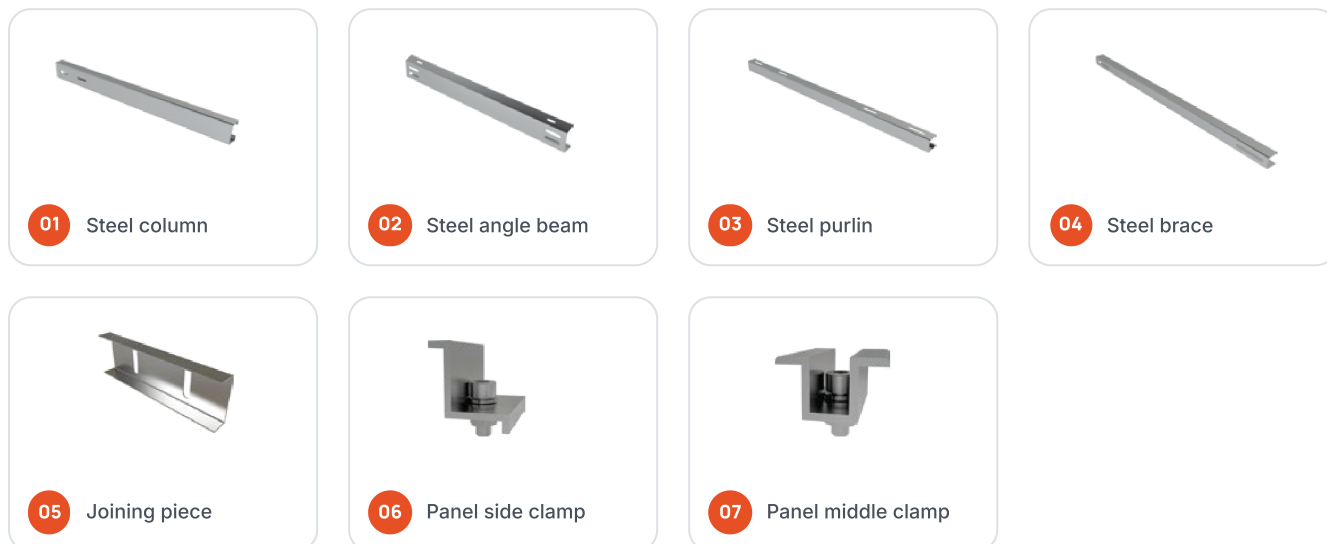
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

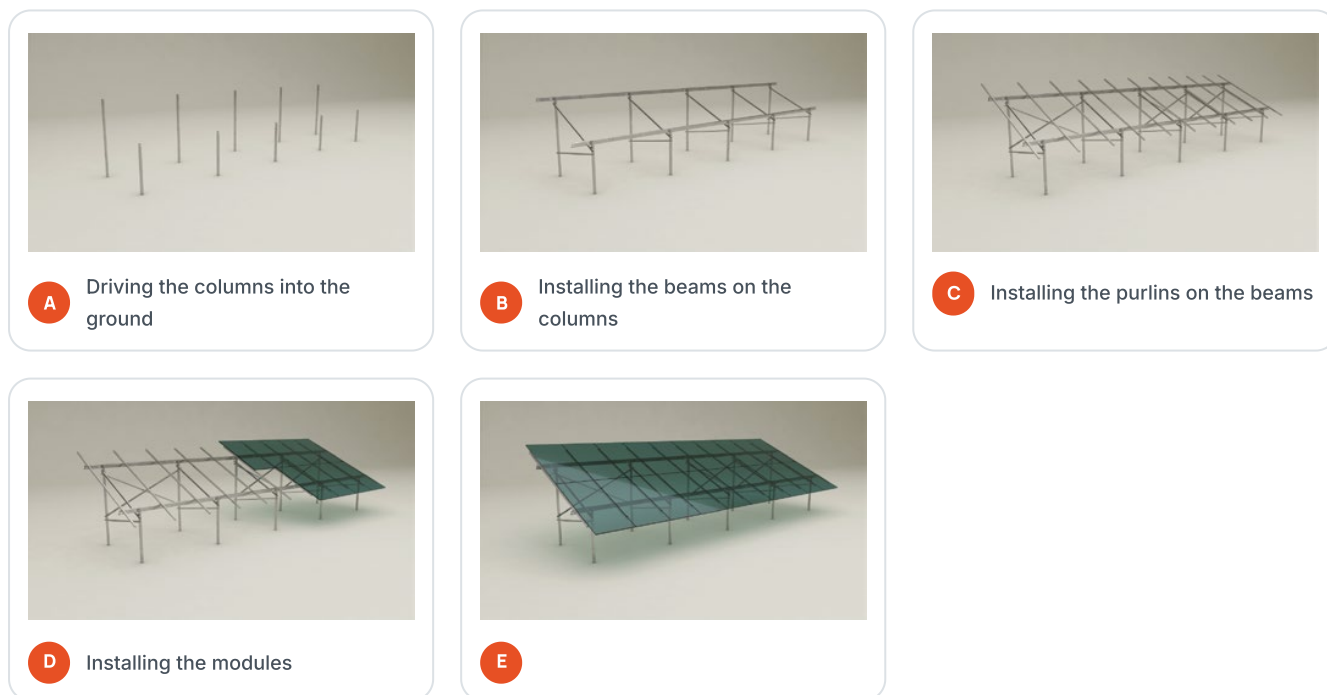
— SM01-B

Components and installation

Components and accessories



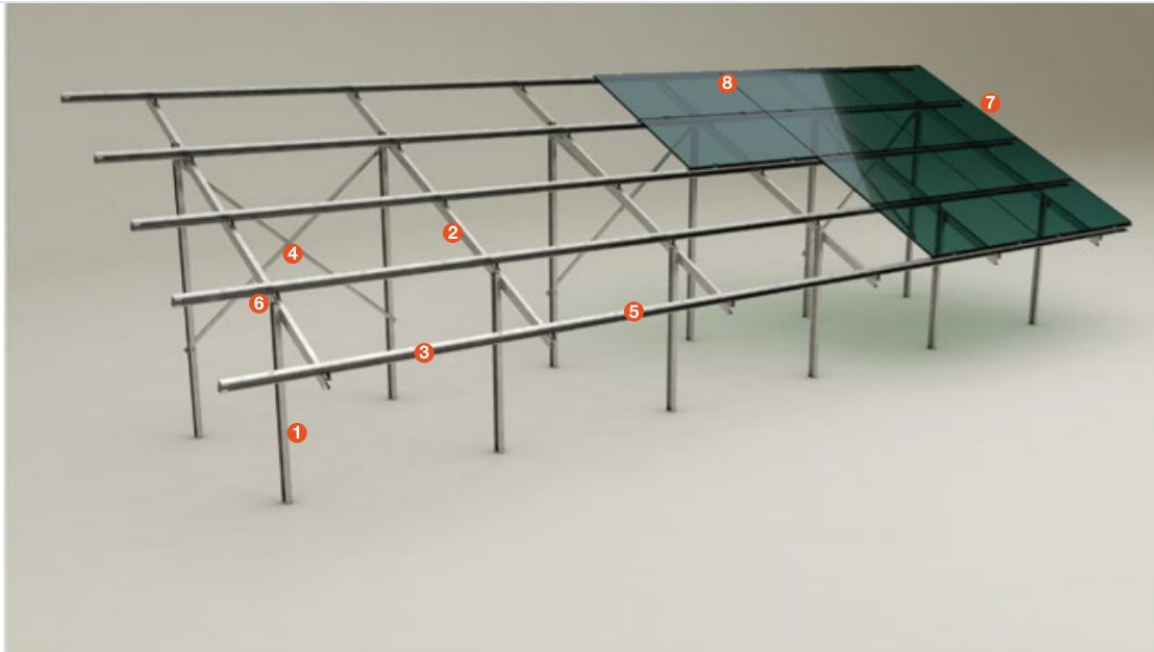
Installation stages



MOUNTING SYSTEM

SM02

Ground-driven steel system, 4 horizontal modules



SM02

Ground-driven steel support and mounting system for open-field solar panels, with 4 horizontal modules. An optimal solution for PV installations on medium and large sites. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ground driving
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

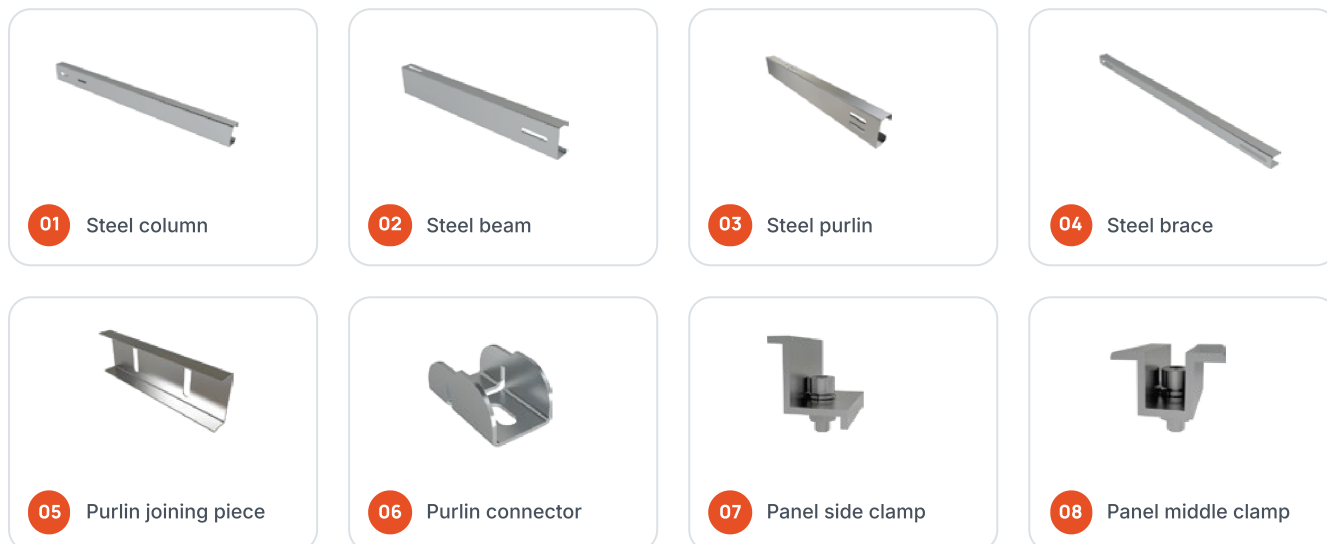
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

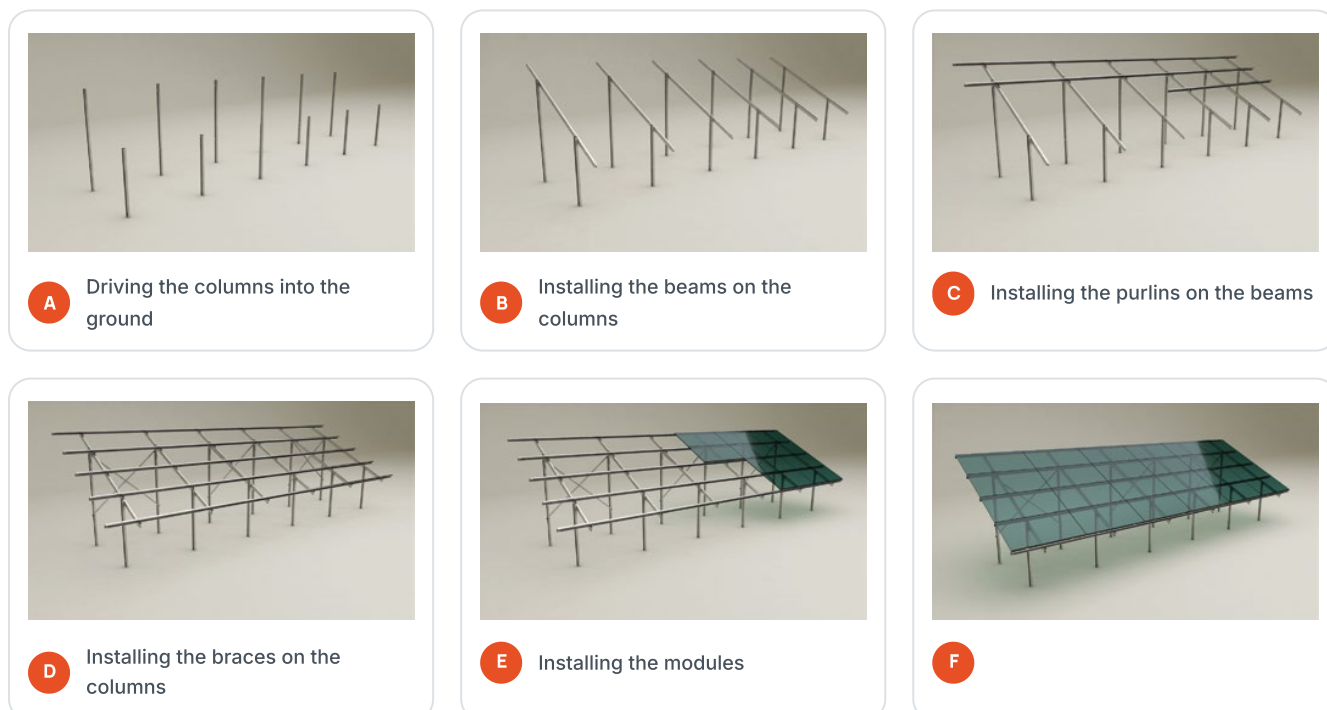
SM02

Components and installation

Components and accessories



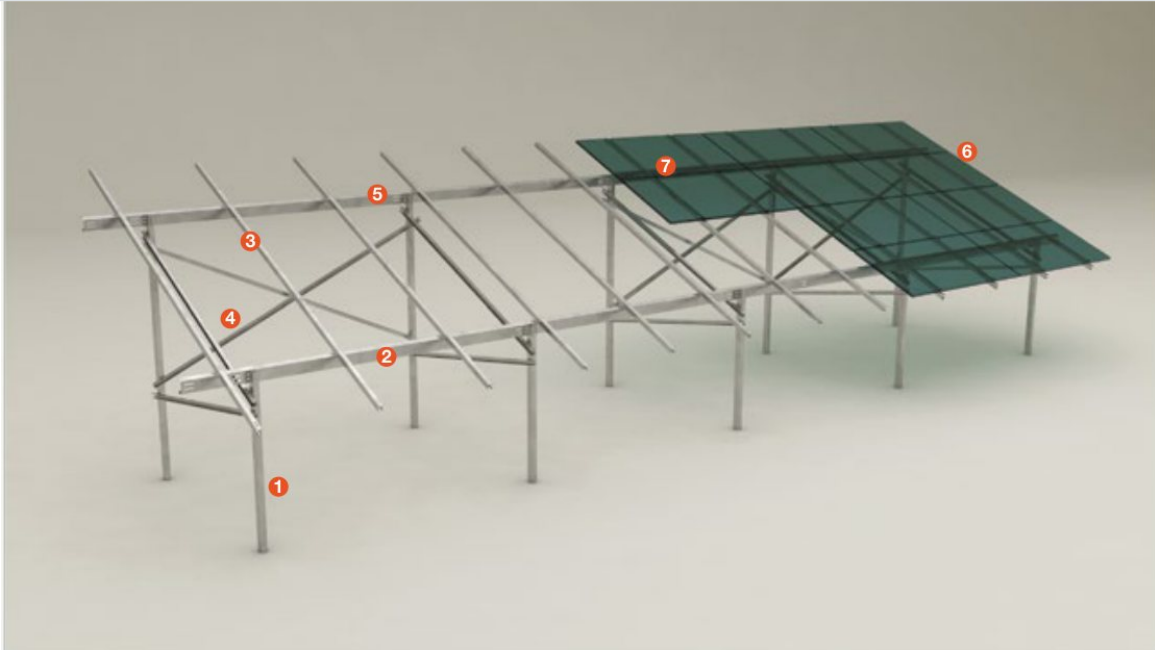
Installation stages



— MOUNTING SYSTEM

SM02-B

Ground-driven steel system, 4 horizontal modules



SM02-B

Ground-driven steel support and mounting system for open-field solar panels, with 4 horizontal modules. An optimal solution for PV installations on medium and large sites. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ground driving
Tilt angle	20 - 25 - 30 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

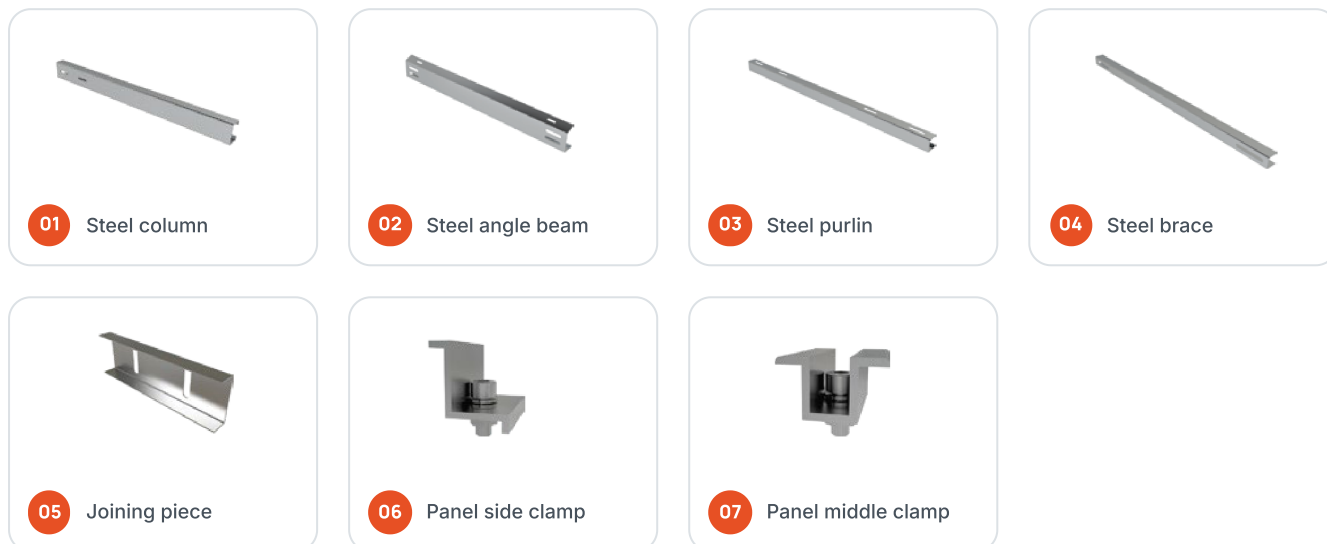
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

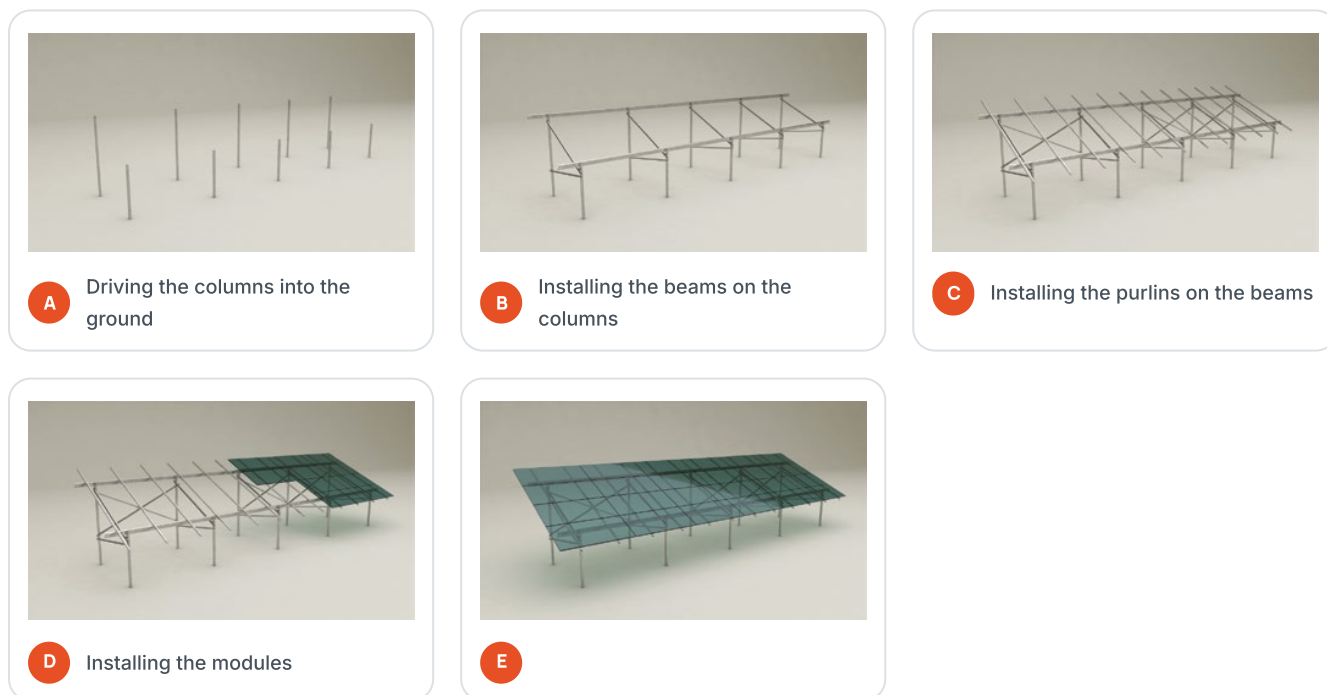
— SM02-B

Components and installation

Components and accessories



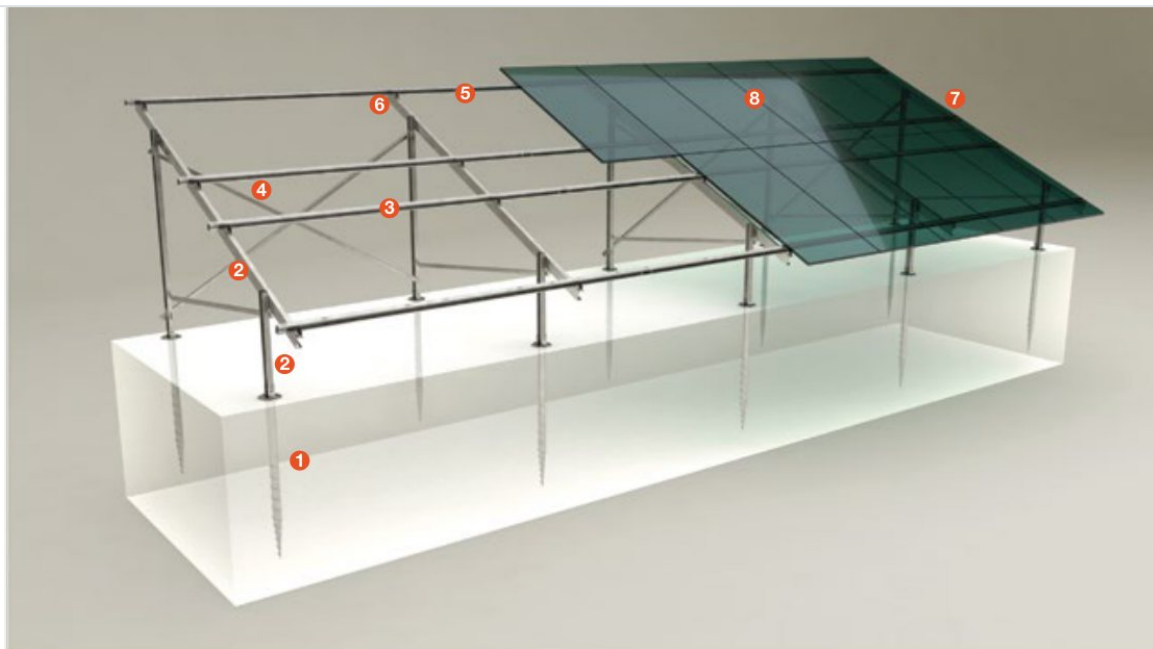
Installation stages



— MOUNTING SYSTEM

SM03

Steel system on screw piles, 2 vertical modules



Steel support and mounting system for open-field solar panels with 2 vertical modules, installed on screw piles. An optimal solution for PV projects on irregular terrain. The piles have high strength and can be installed at any time of year. Thanks to their high load capacity, they are not affected by vibrations caused by wind or storms. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ground screwing
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

— SM03

Components and installation

Components and accessories



01 Screw pile



02 Steel column - beam



03 Steel purlin



04 Steel brace



05 Purlin connecting piece



06 Purlin connector



07 Panel side clamp



08 Panel middle clamp

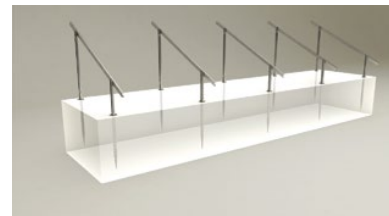
Installation stages



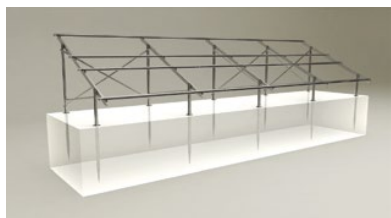
A Installing the screw piles



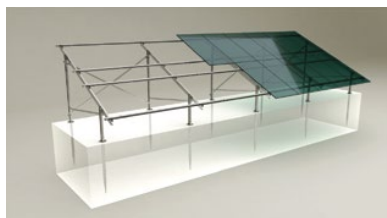
B Installing the columns on the piles



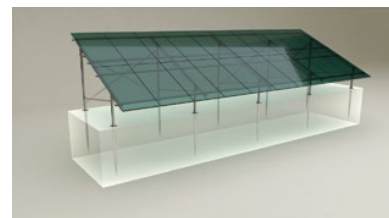
C Installing the beams on the columns



D Installing the purlins and braces



E Installing the modules

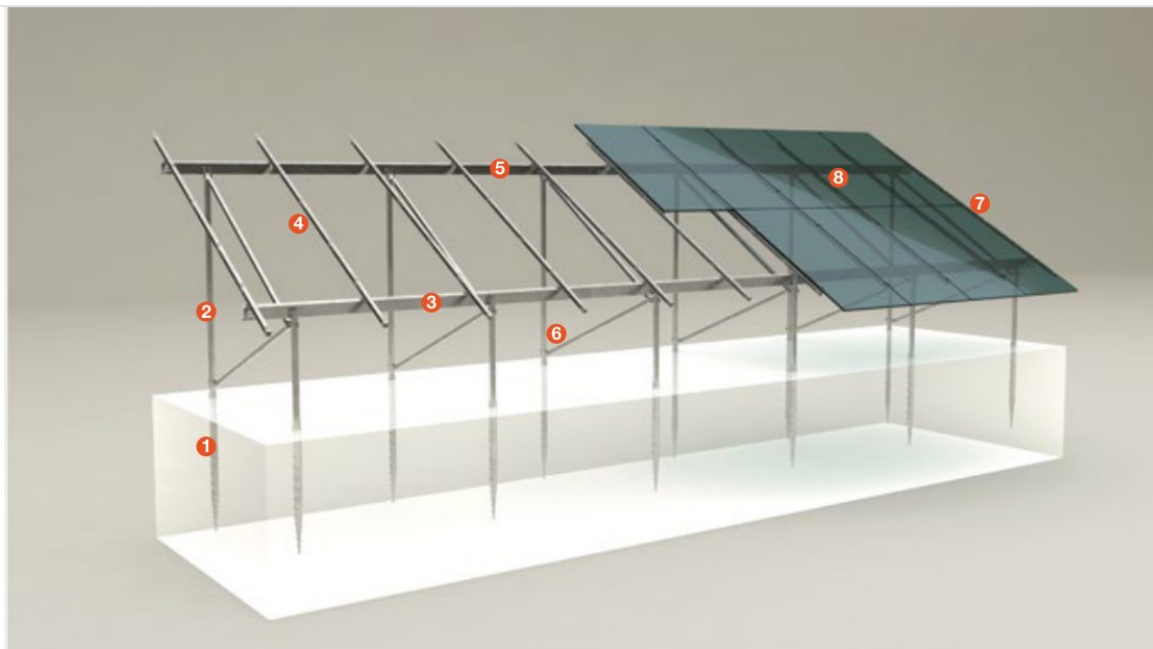


F

MOUNTING SYSTEM

SM03-B

Steel pipe system on screw piles, 2 vertical modules



Steel pipe support and mounting system for open-field solar panels with 2 vertical modules, installed on screw piles. An optimal solution for PV projects on irregular terrain. The piles have high strength and can be installed at any time of year. Thanks to their high load capacity, they are not affected by vibrations caused by wind or storms. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ground screwing
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

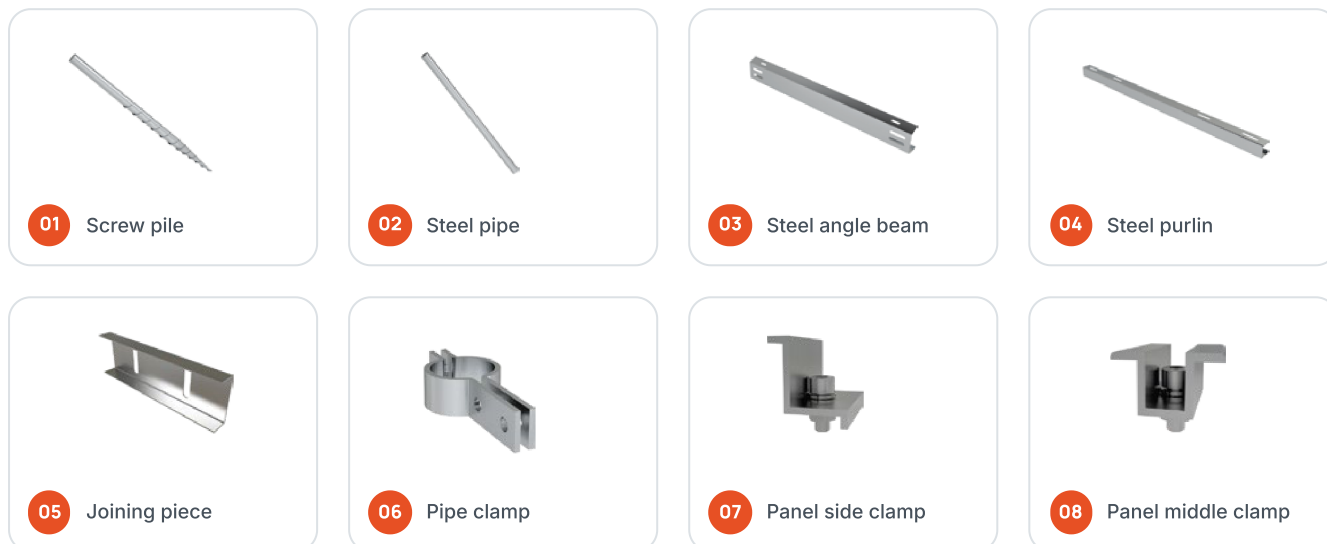
Advantages

- 01 Time and cost savings during installation.
- 02 Flexible solutions for different terrain types.
- 03 Solutions for mounting combiner boxes and inverters.
- 04 Design and engineering solutions tailored to the customer.

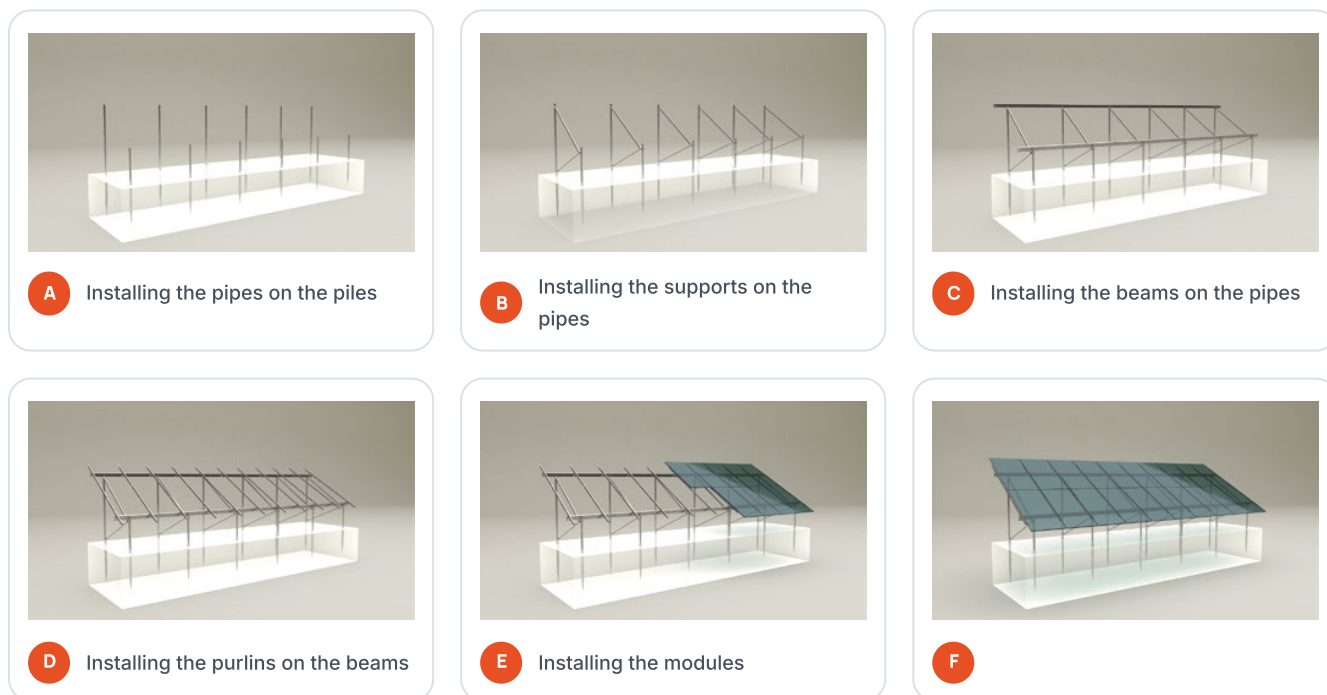
— SM03-B

Components and installation

Components and accessories



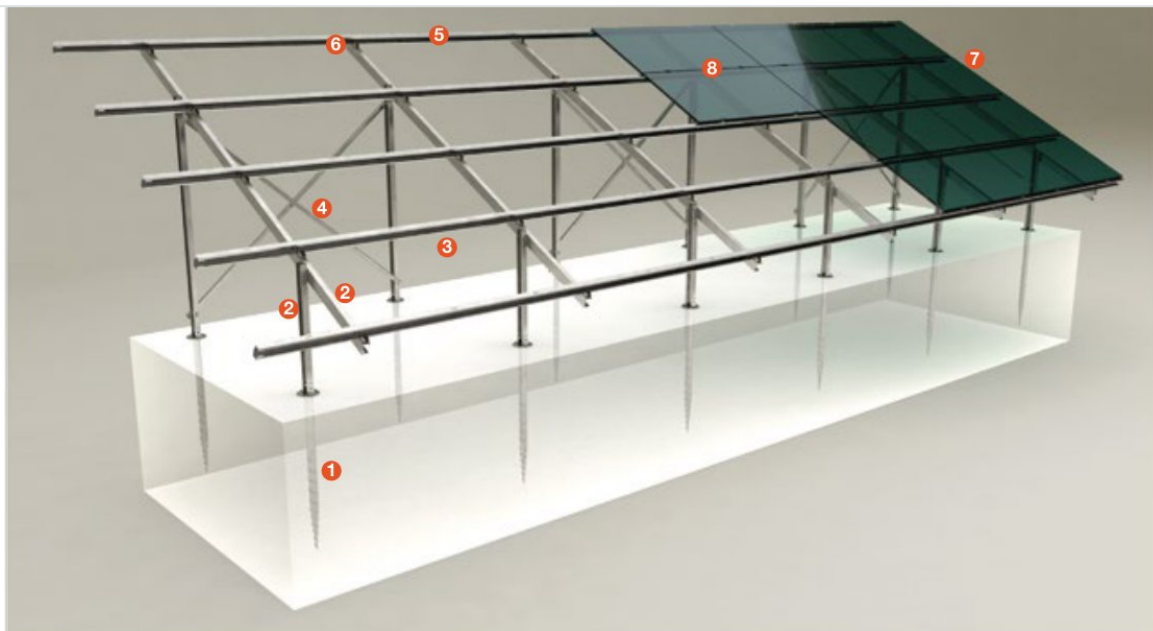
Installation stages



MOUNTING SYSTEM

SM04

Steel system on screw piles, 4 horizontal modules



Steel support and mounting system for open-field solar panels with 4 horizontal modules, installed on screw piles. An optimal solution for PV projects on irregular terrain. The piles have high strength and can be installed at any time of year. Thanks to their high load capacity, they are not affected by vibrations caused by wind or storms. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ground screwing
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

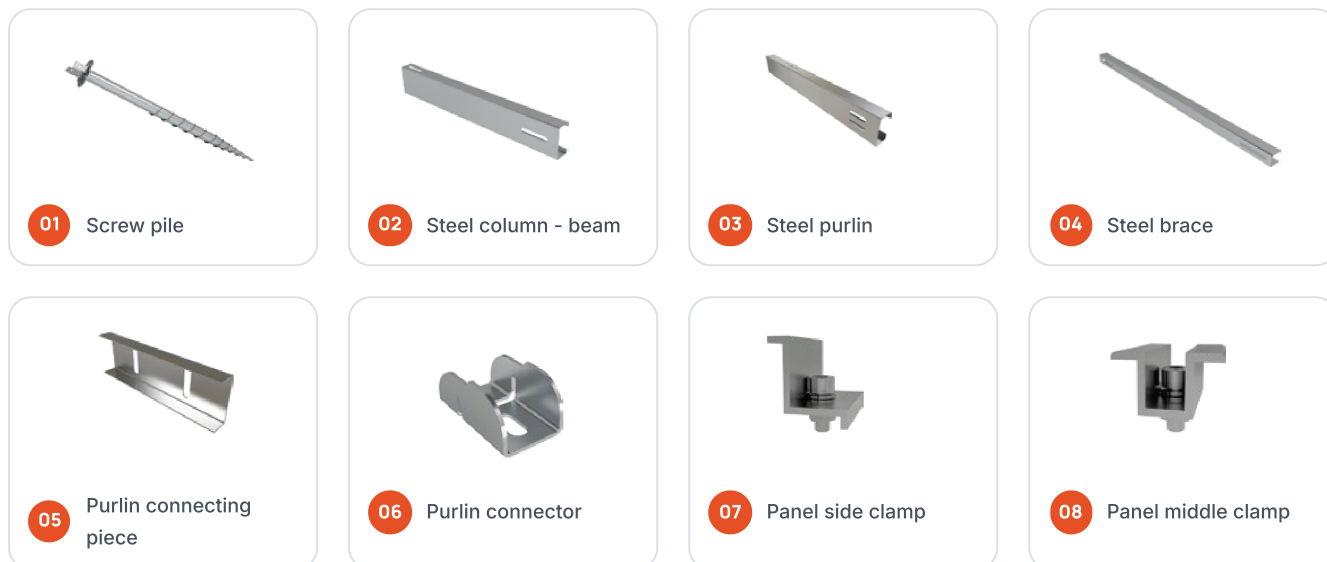
Advantages

- 01 Time and cost savings during installation.
- 02 Flexible solutions for different terrain types.
- 03 Solutions for mounting combiner boxes and inverters.
- 04 Design and engineering solutions tailored to the customer.

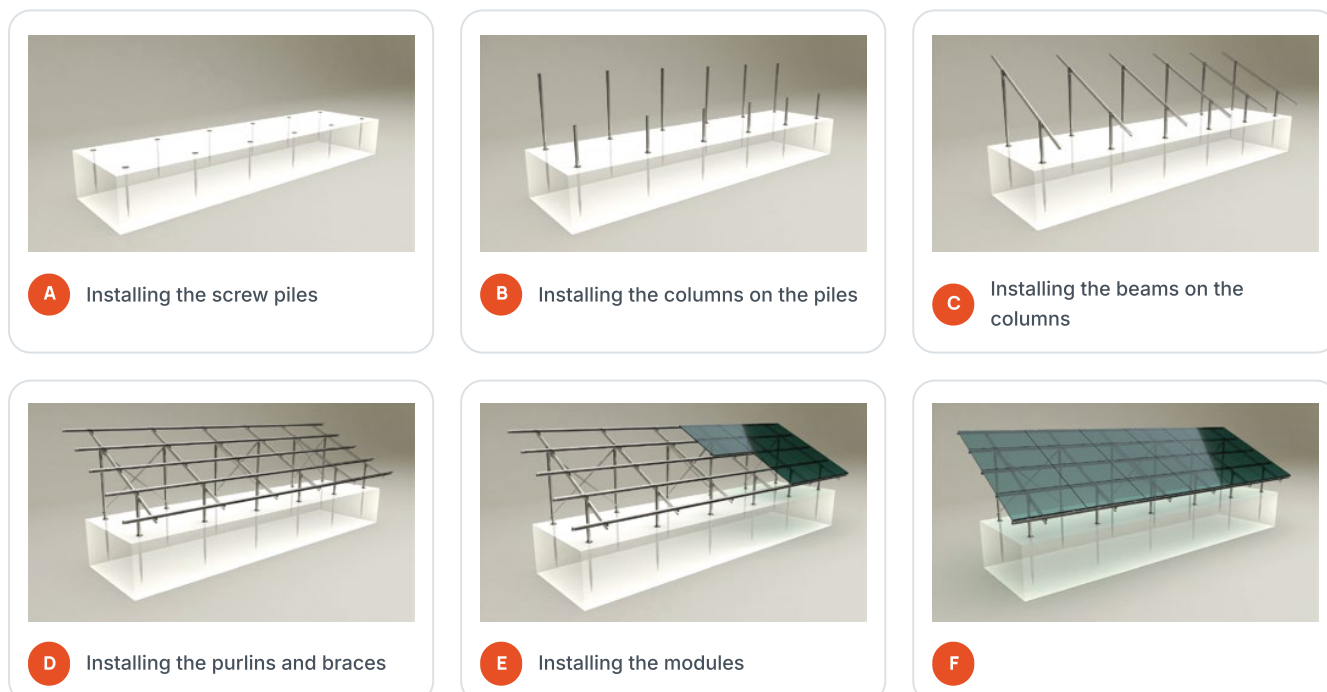
— SM04

Components and installation

Components and accessories



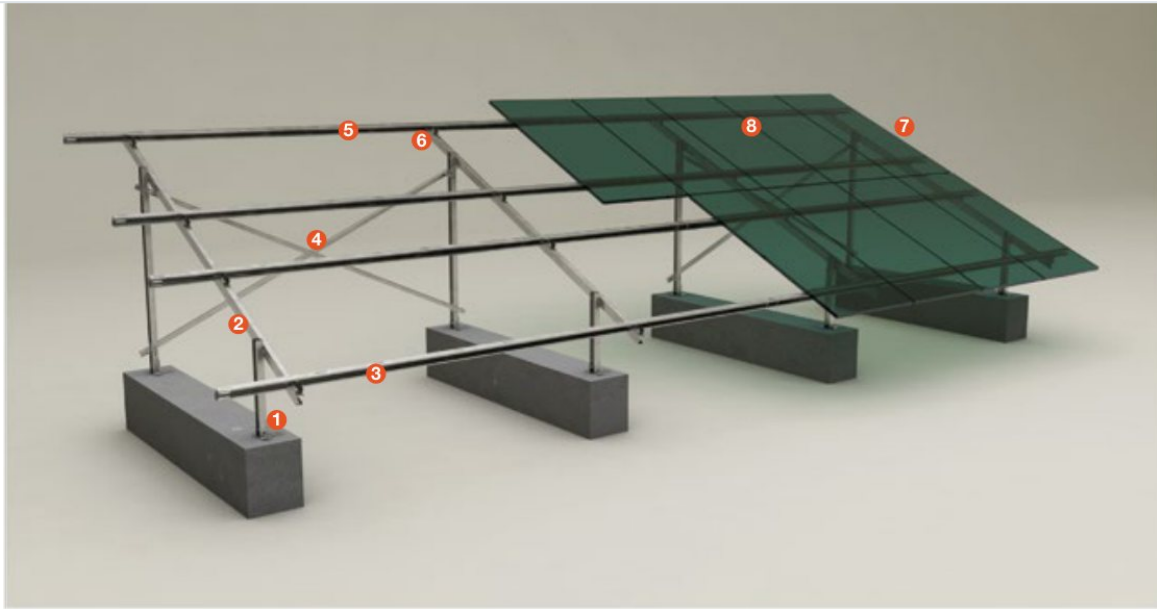
Installation stages



— MOUNTING SYSTEM

SM05

Concrete-anchored steel system, 2 vertical modules



Steel support and mounting system for open-field solar panels, anchored on concrete foundations, with 2 vertical modules. An ideal solution for PV projects on sloping medium and large sites. Provides the strength and stability needed on loose ground. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Anchored on concrete foundation
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

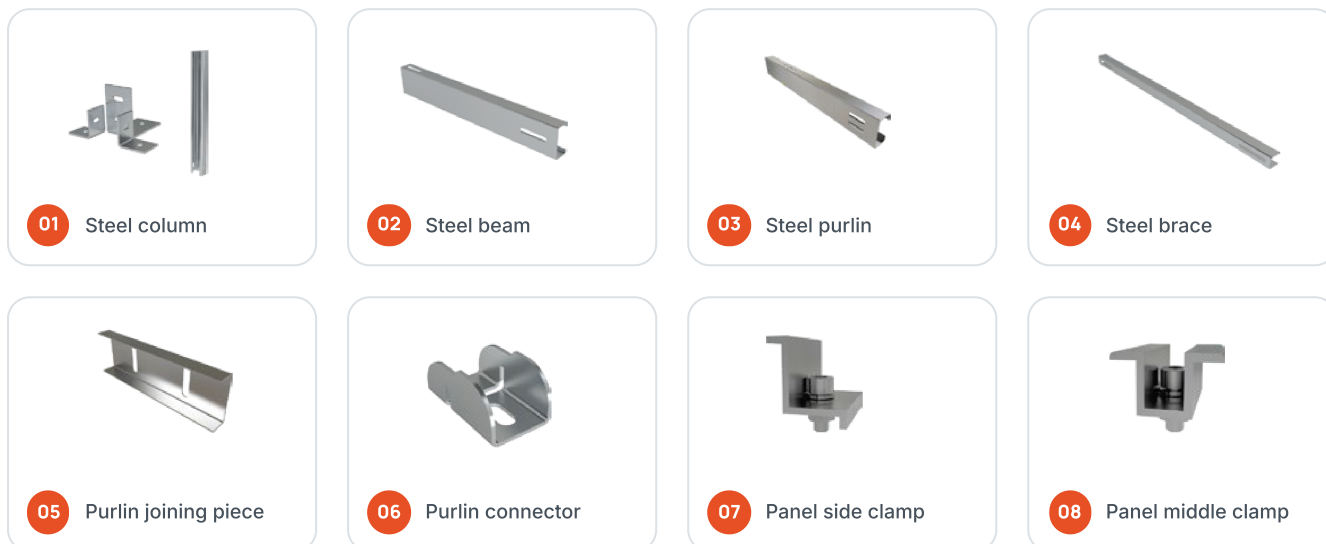
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

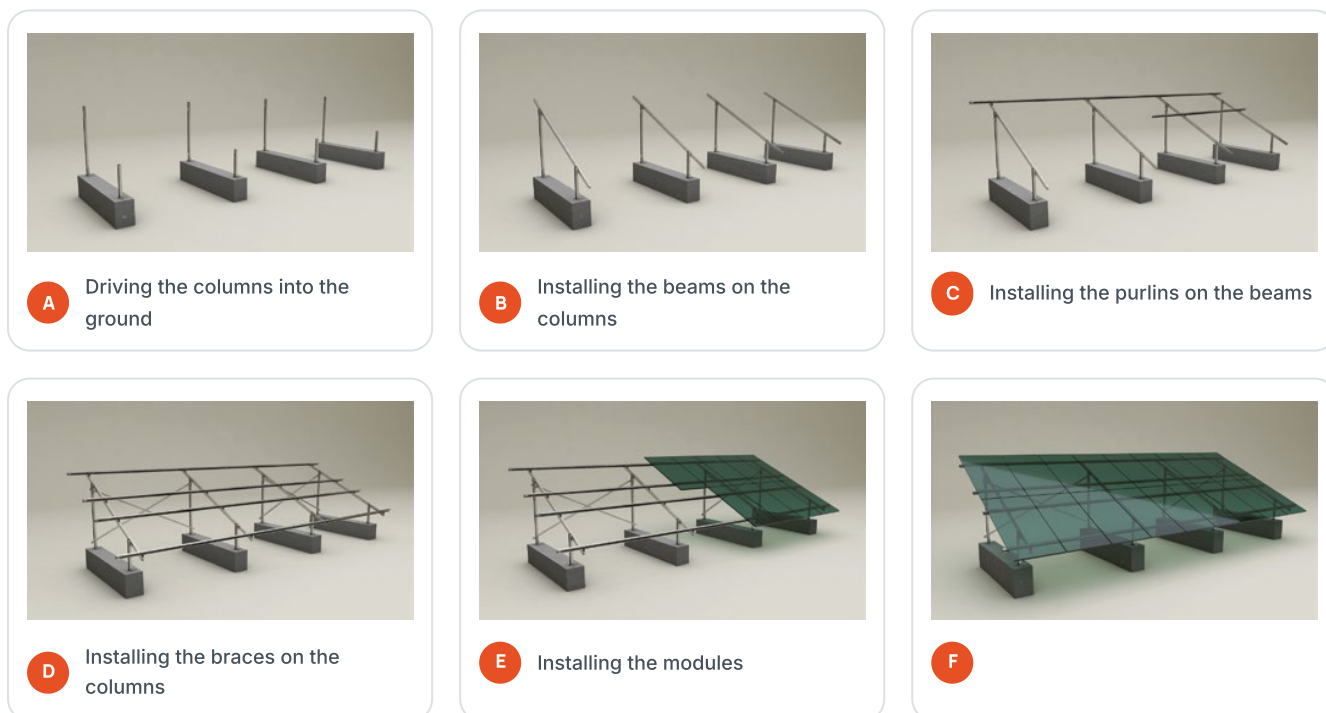
— SM05

Components and installation

Components and accessories



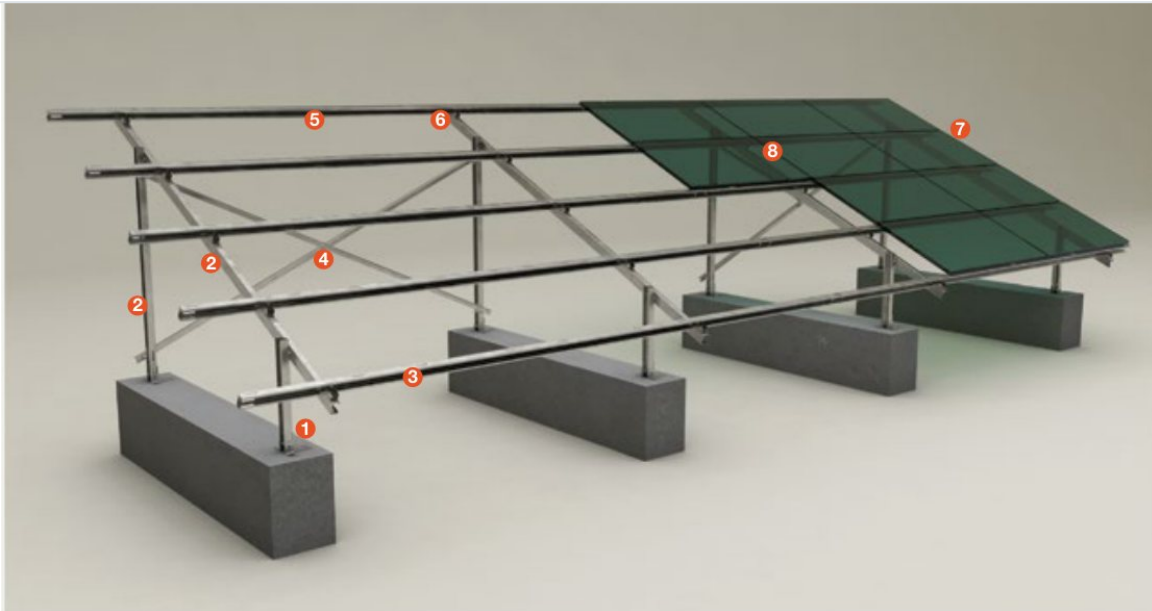
Installation stages



— MOUNTING SYSTEM

SM06

Concrete-anchored steel system, 4 horizontal modules



Steel support and mounting system for open-field solar panels, anchored on concrete foundations, with 4 horizontal modules. An ideal solution for PV projects on sloping medium and large sites. Provides the strength and stability needed on loose ground. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Anchored on concrete foundation
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

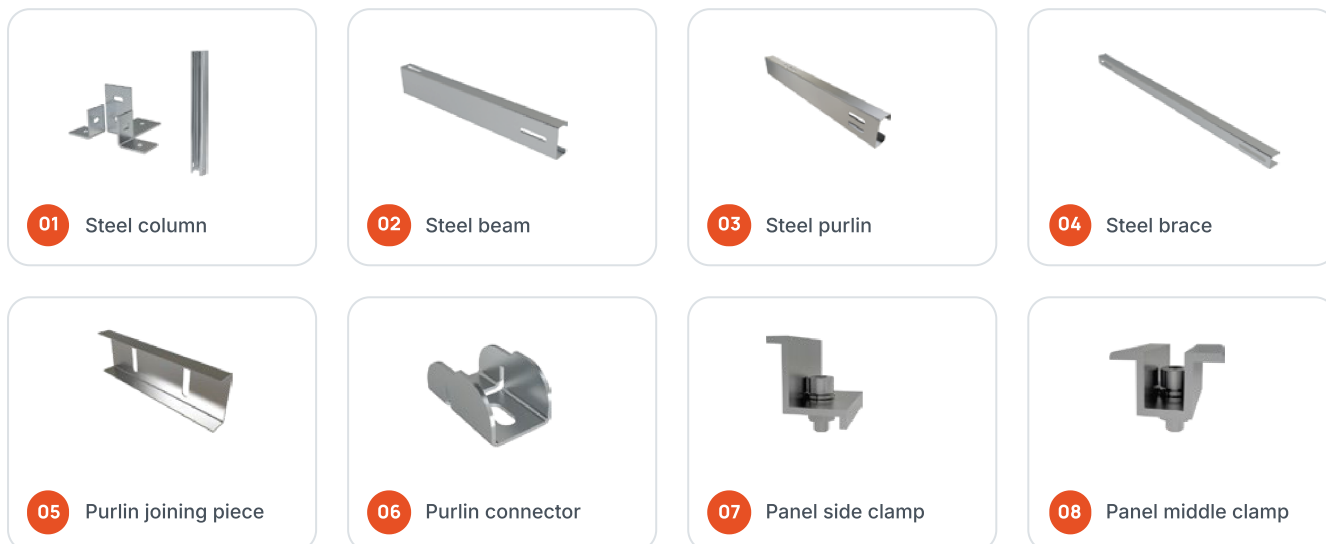
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

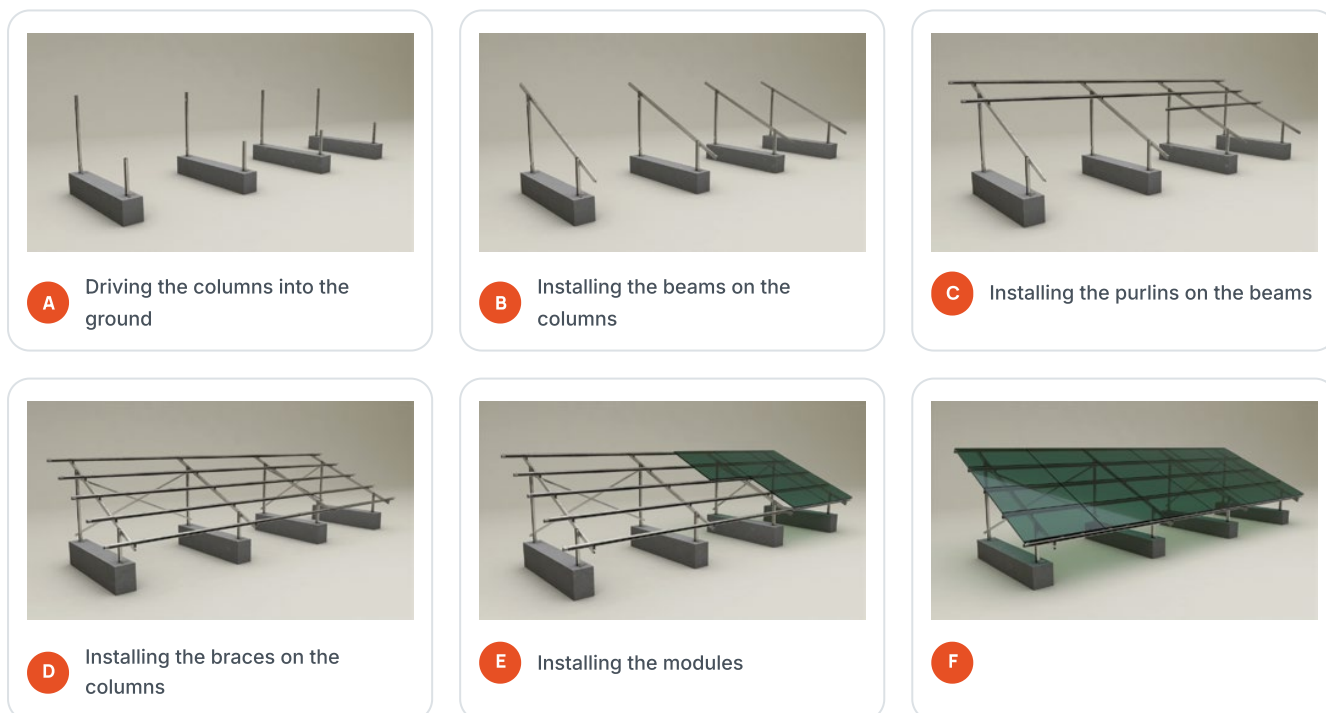
— SM06

Components and installation

Components and accessories



Installation stages



— MOUNTING SYSTEM

SM07

Concrete-embedded steel system, 2 vertical modules



Steel support and mounting system for open-field solar panels, with concrete-embedded columns and 2 vertical modules. An ideal solution for PV projects on medium and large sites with loose ground. Provides the strength needed on loose ground. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Columns embedded in concrete
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

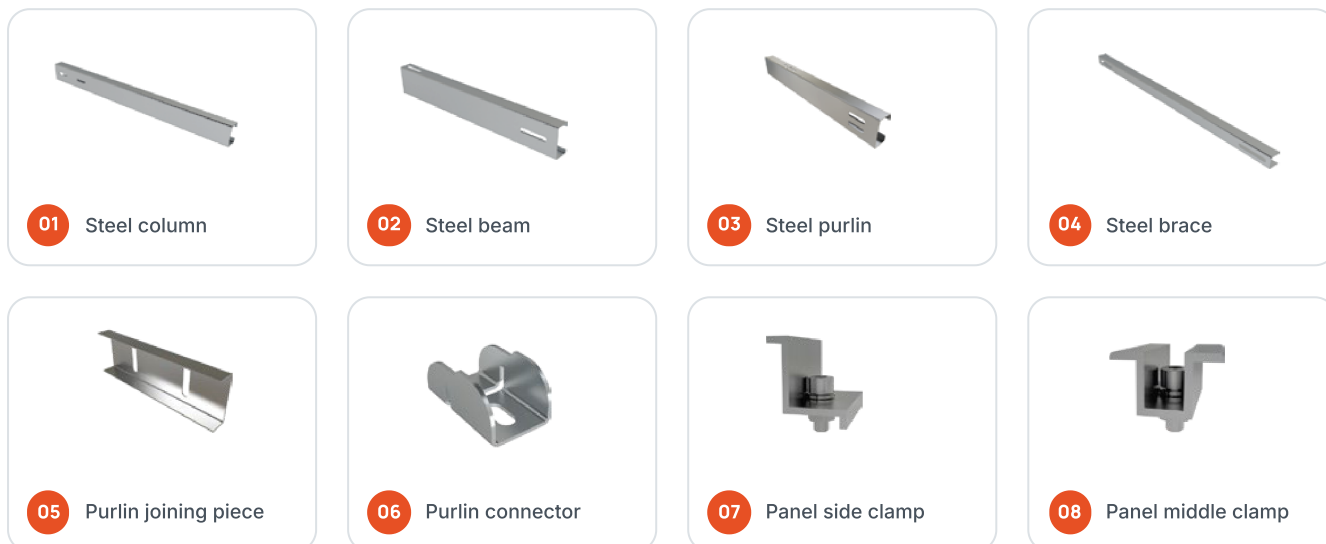
Advantages

- 01 Time and cost savings during installation.
- 02 Flexible solutions for different terrain types.
- 03 Solutions for mounting combiner boxes and inverters.
- 04 Design and engineering solutions tailored to the customer.

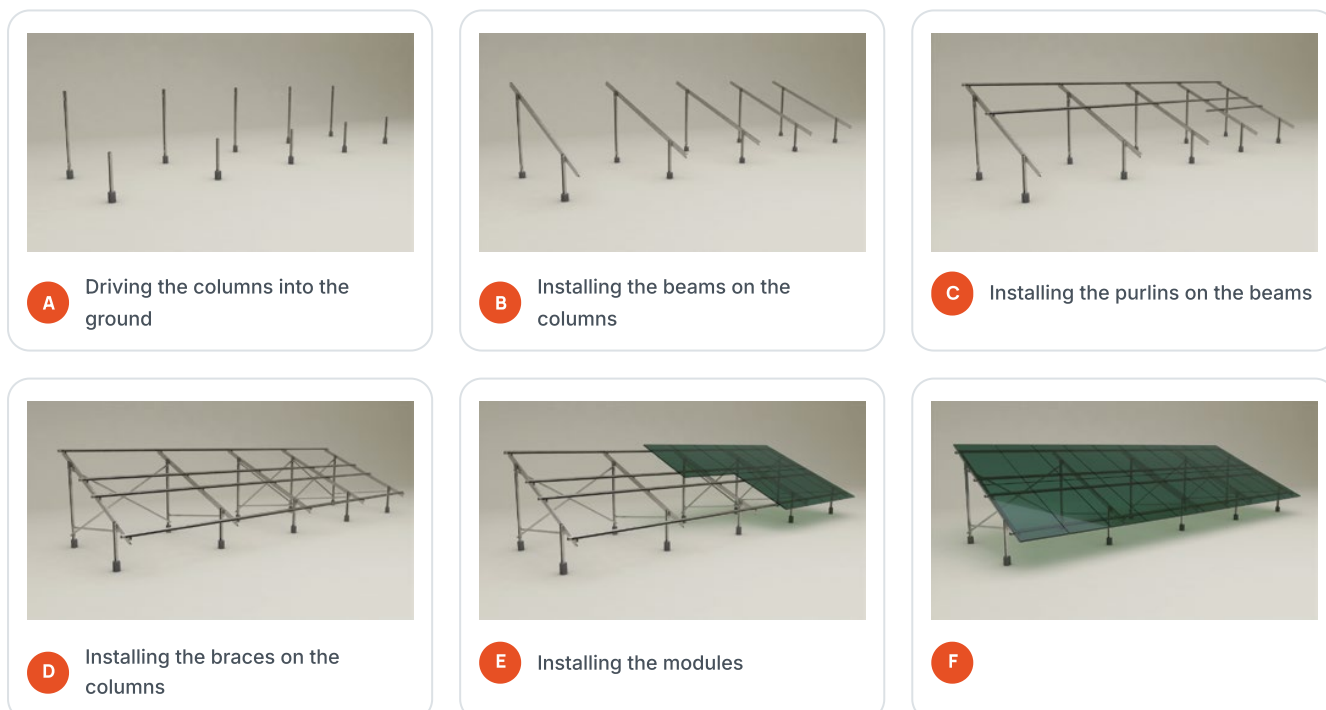
— SM07

Components and installation

Components and accessories



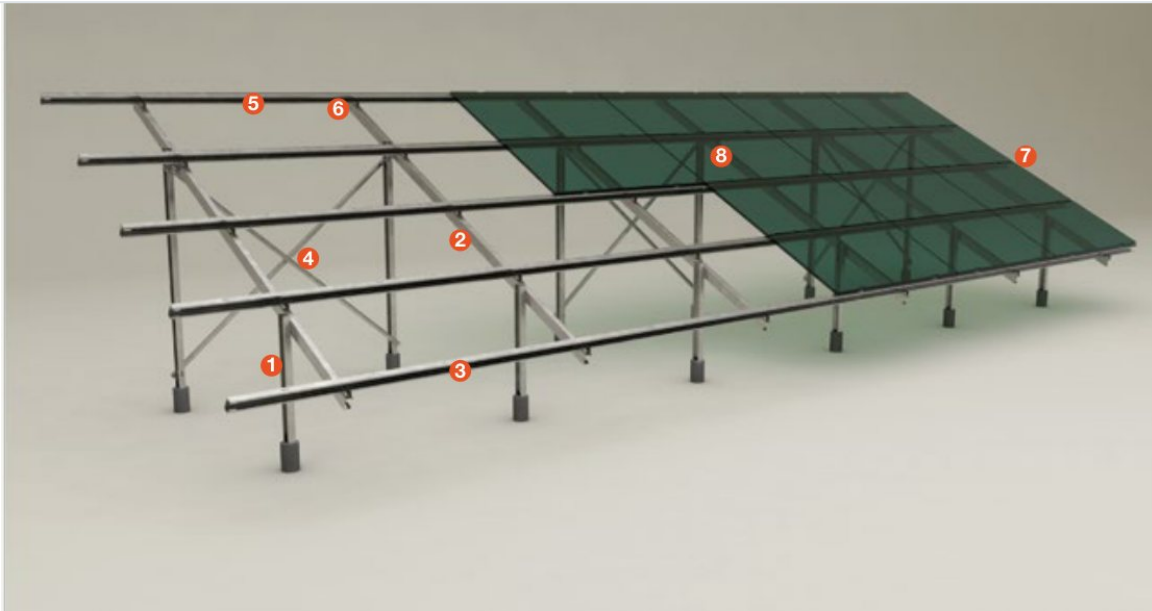
Installation stages



MOUNTING SYSTEM

SM08

Concrete-embedded steel system, 4 horizontal modules



Steel support and mounting system for open-field solar panels, with concrete-embedded columns and 4 horizontal modules. An ideal solution for PV projects on medium and large sites with loose ground. Provides the strength needed on loose ground. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Columns embedded in concrete
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

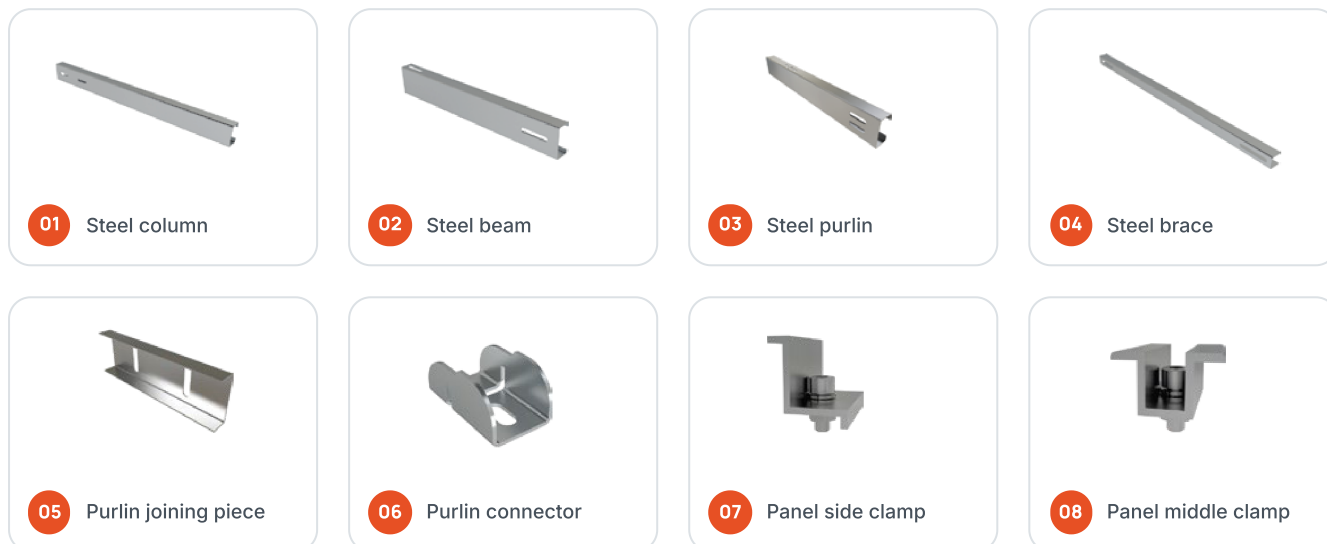
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

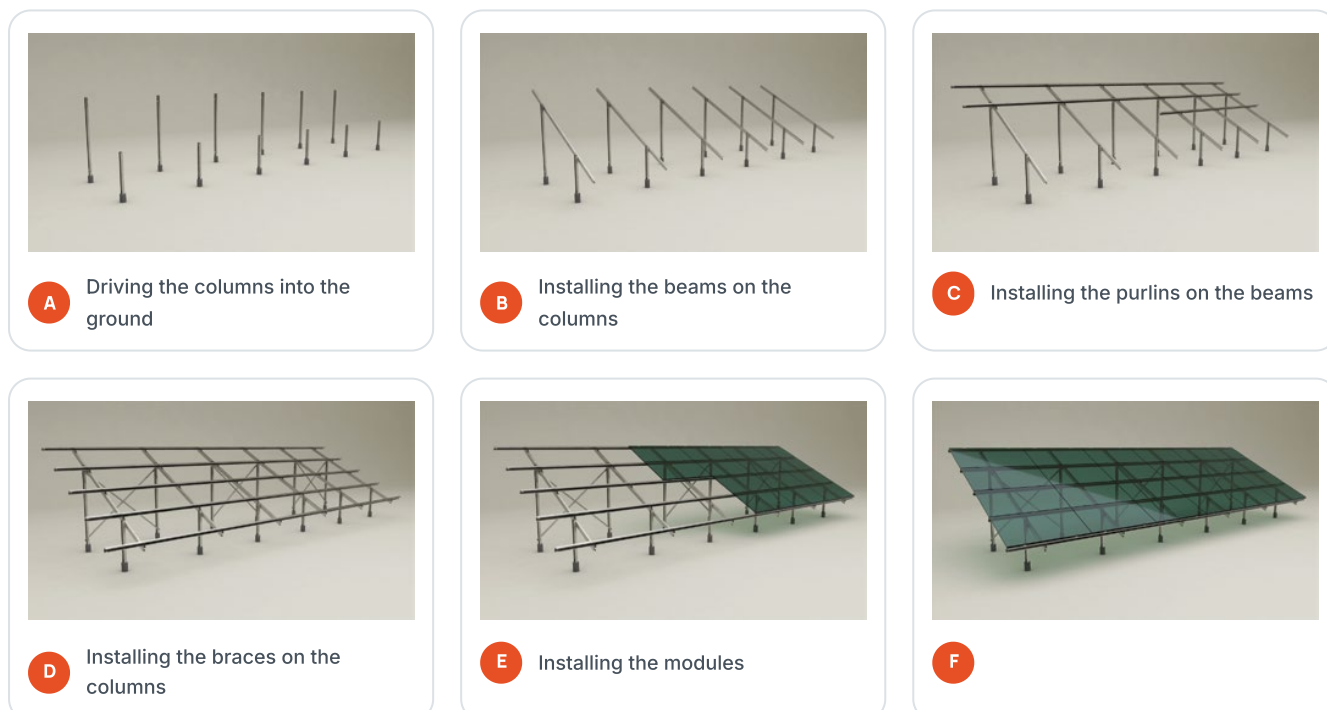
— SM08

Components and installation

Components and accessories



Installation stages



MOUNTING SYSTEM

SM09

Single-column ground-driven steel system, 2 vertical modules



Single-column ground-driven steel support and mounting system for open-field solar panels, with 2 vertical modules. An optimal solution for PV projects on medium and large sites. Widely used on hard ground to reduce the number of legs and the cost. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ground driving
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

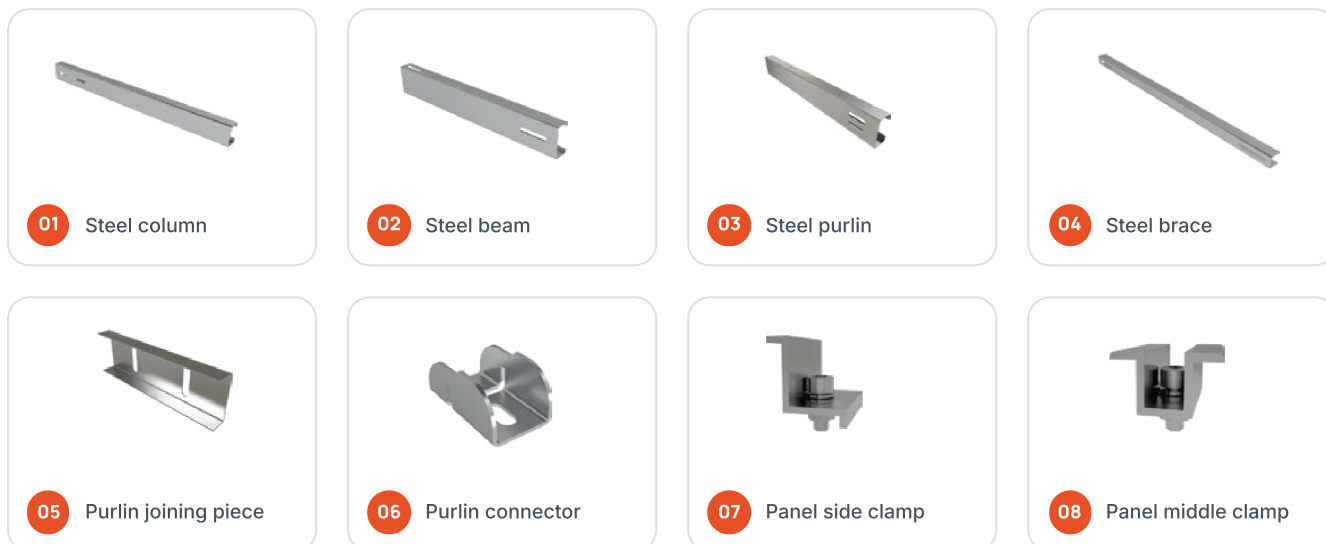
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

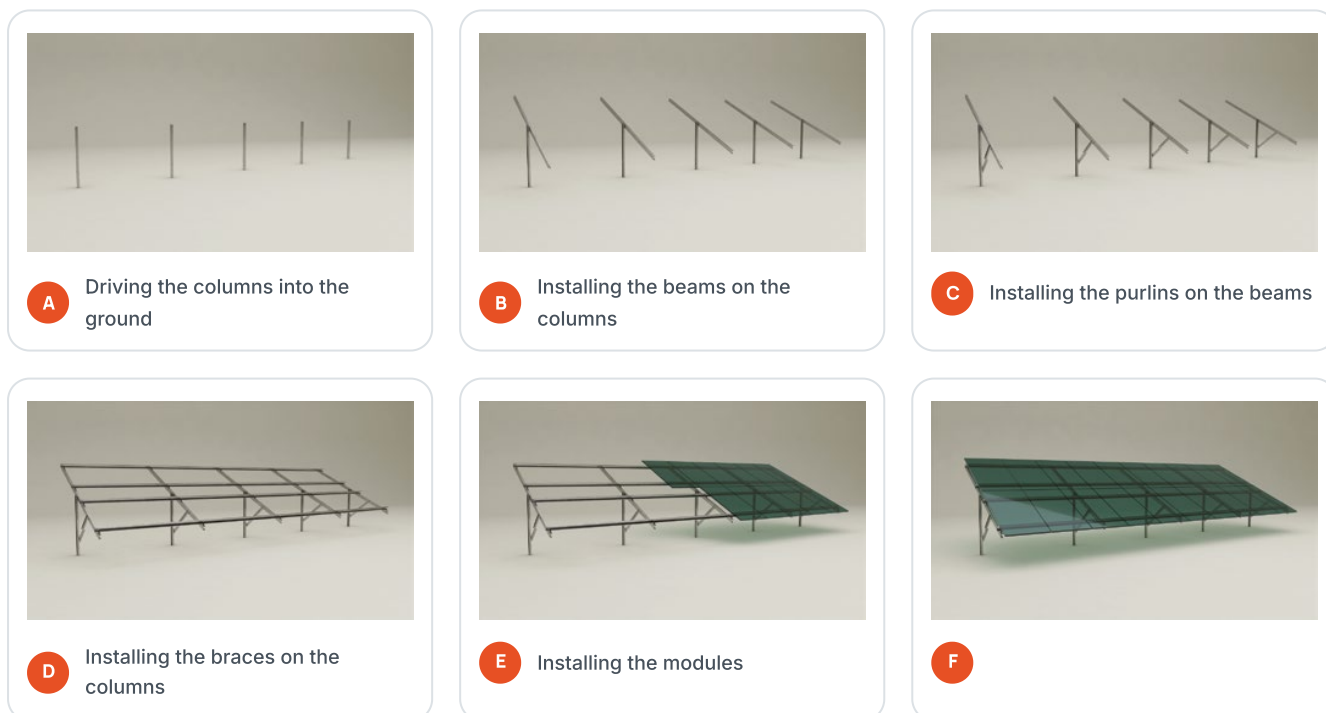
— SM09

Components and installation

Components and accessories



Installation stages



MOUNTING SYSTEM

SM-AAS

Adjustable-angle system



Angle adjustment by manually setting the interlocking rear columns. Easy installation and adjustment to the desired angle depending on the site. The system is easily mounted with special anchors fixed to the columns and held by iron stakes driven into the ground.

Technical specifications

Mounting	Anchored on concrete foundation
Tilt angle	0-60 degrees
Panels	Framed and frameless / vertical and horizontal
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

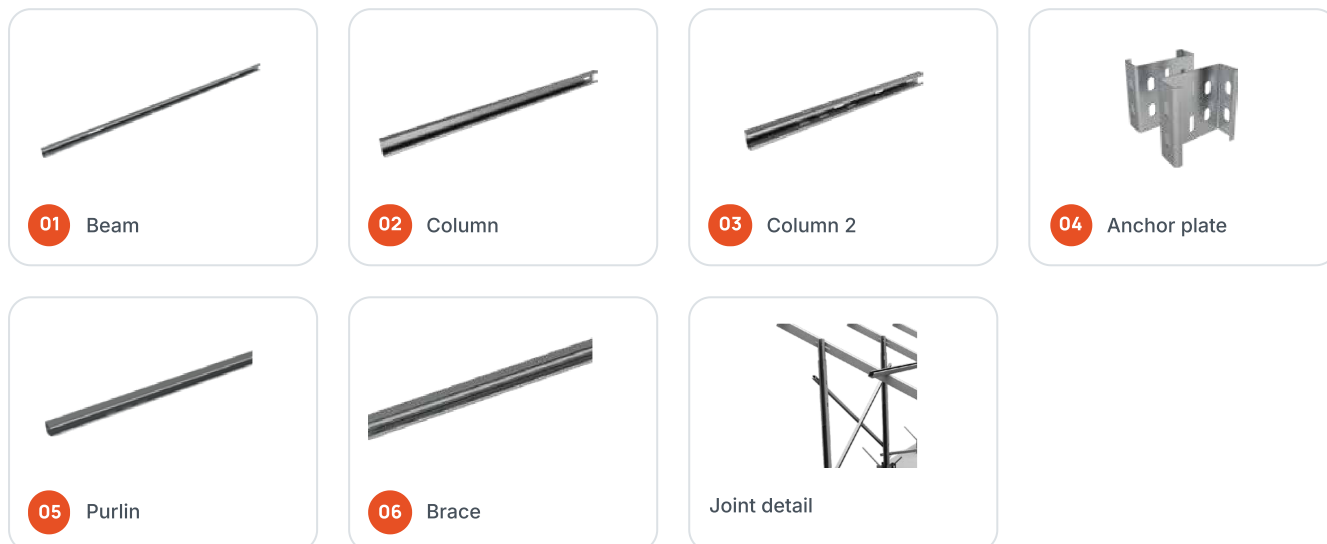
Advantages

- 01 Modules can be mounted horizontally or vertically.
- 02 Time and cost savings during installation.
- 03 Flexible solutions for different types of parking areas.
- 04 Solutions for mounting combiner boxes and inverters.
- 05 Design and engineering solutions tailored to the customer.

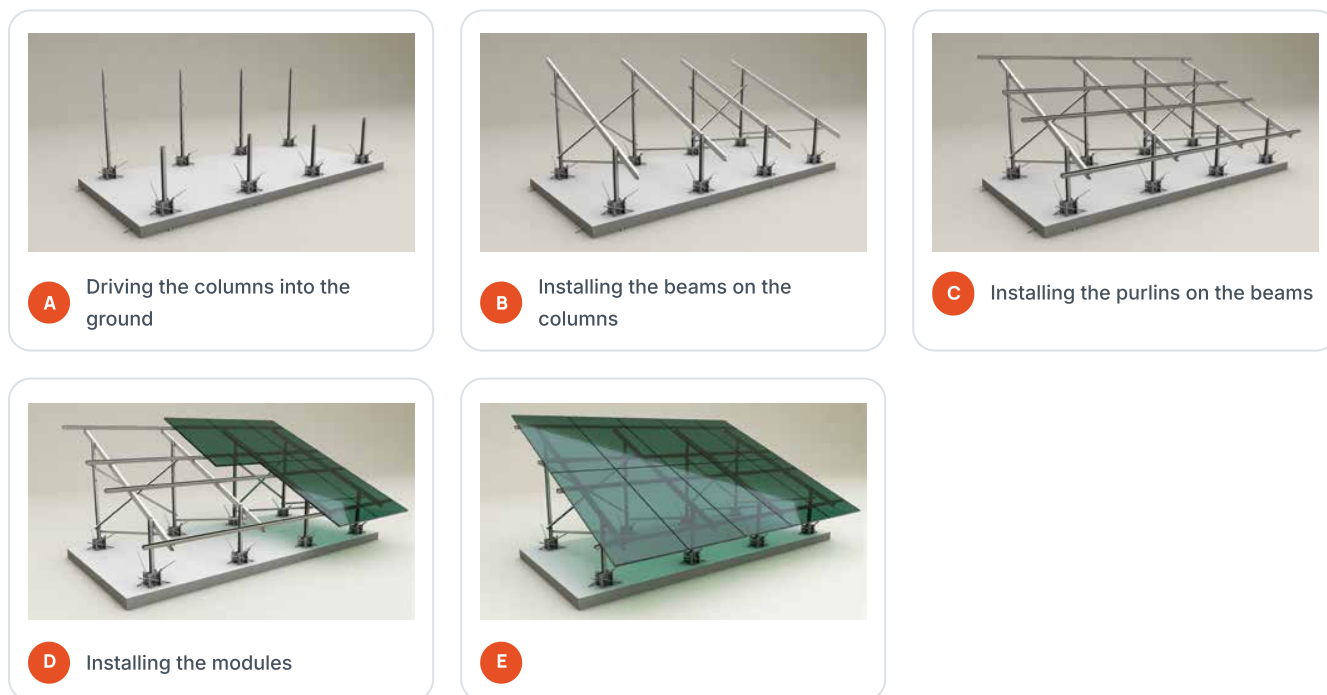
— SM-AAS

Components and installation

Components and accessories



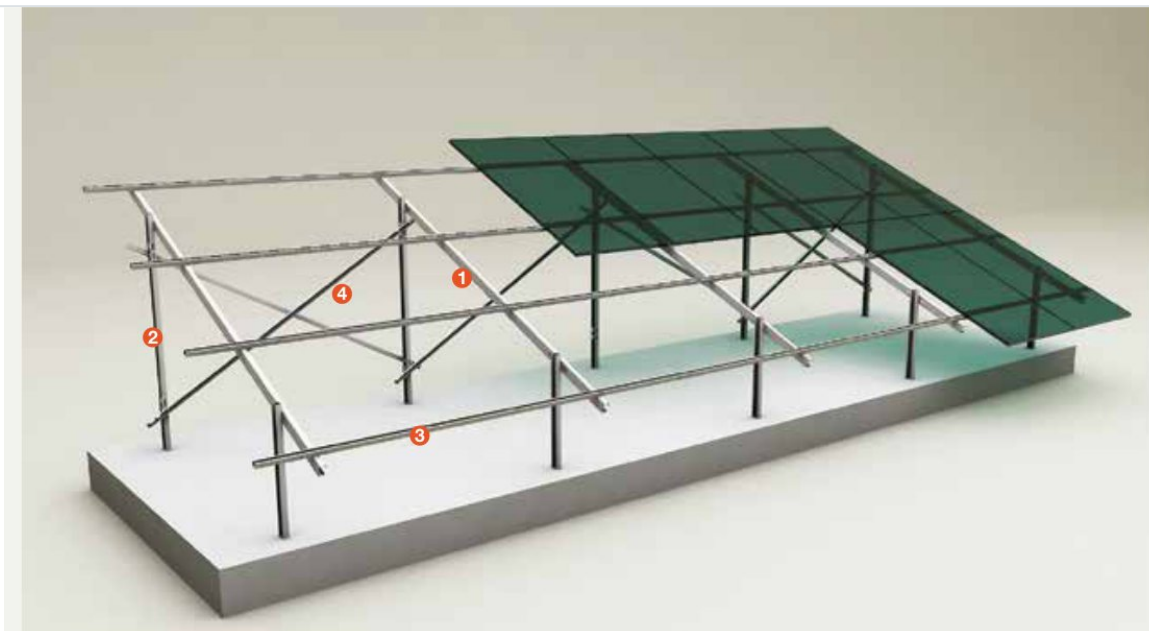
Installation stages



— MOUNTING SYSTEM

SM-TSS

Agricultural irrigation system



Advancing technology and falling costs have extended the use of solar systems. Regular irrigation is essential on agricultural land, generally supplied from underground wells. Their location in rural areas, far from urban centres, creates an energy demand for irrigation. Solar systems for agricultural irrigation are today a preferred way to meet this demand. Low cost and high efficiency make irrigation easy.

Technical specifications

Mounting	Ground driving
Tilt angle	20 - 25 - 30 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

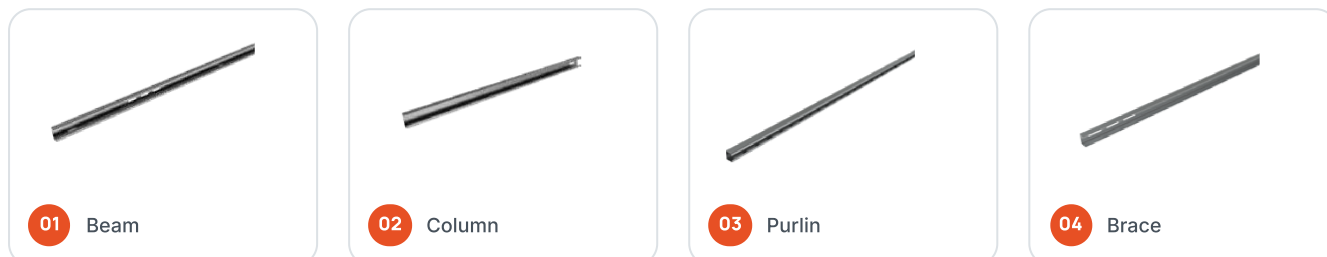
Advantages

- 01 Time and cost savings during installation.
- 02 Flexible solutions for different terrain types.
- 03 Solutions for mounting combiner boxes and inverters.
- 04 Design and engineering solutions tailored to the customer.

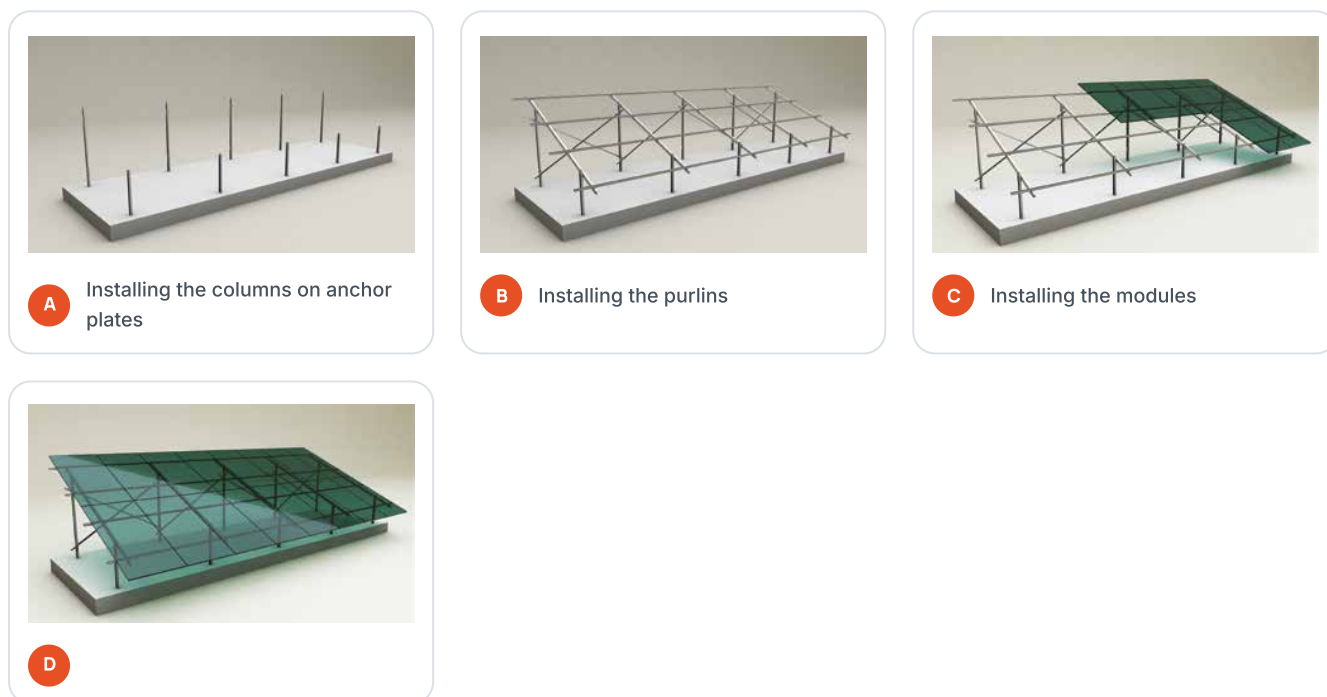
SM-TSS

Components and installation

Components and accessories



Installation stages



— SYSTEM RANGE

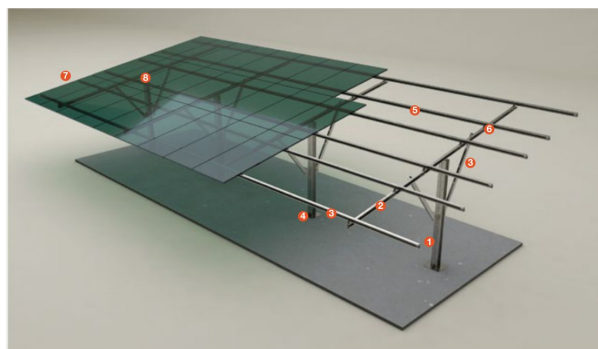
Carport and bikeport

Steel structures anchored on concrete foundations. Model 4 is shown on pages 44-45.



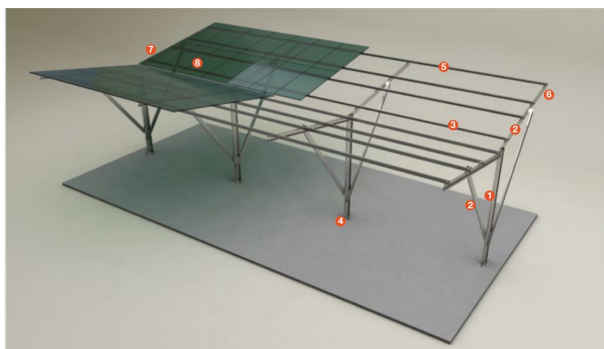
Model 1

SM10 | V - H



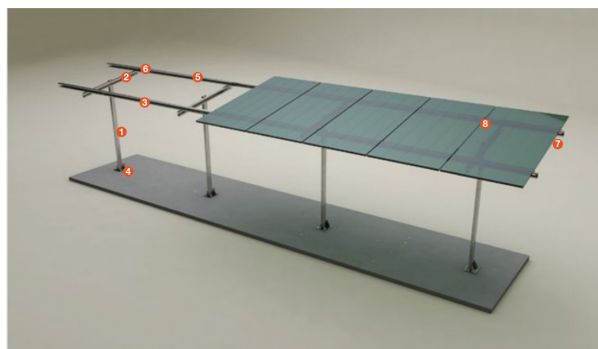
Model 2

SM11 | V - H



Model 3

SM12 | V - H



Bicycle parking

SM13 | 1 vertical module

An aerial photograph of a parking lot. In the foreground, three cars are parked in marked spaces: a red convertible on the left, a white van in the center, and a white sedan on the right. To the right of the cars, a large array of solar panels is installed, tilted at an angle. The solar panels are dark blue with a grid of silver lines. The parking lot is paved with asphalt, and white lines mark the parking spaces. The background shows some greenery and a clear sky.

03

Carport and bikeport

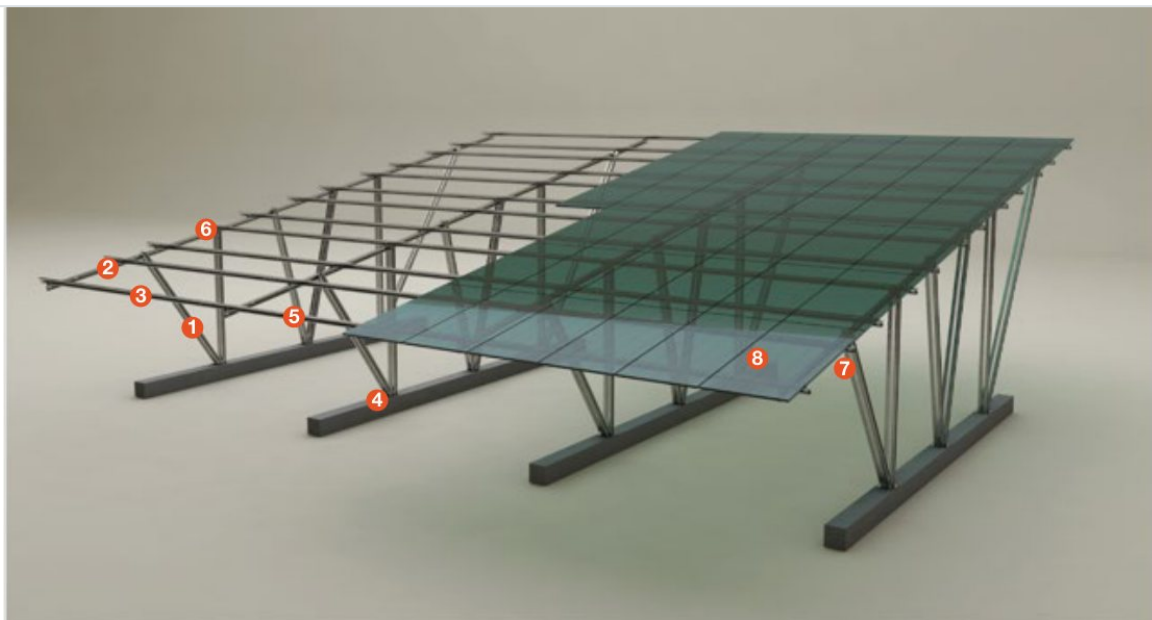
Structures for car and bicycle parking

Systems for car and bicycle parking.

MOUNTING SYSTEM

SM10

Steel carport anchored on concrete



Steel support and mounting system anchored on concrete foundations, for car parks. An ideal solution for single- or multi-family homes, industrial sites and other public parking areas. Provides stability and balance in parking areas. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Anchored on concrete foundation
Tilt angle	0-60 degrees
Panels	Framed and frameless / vertical and horizontal
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

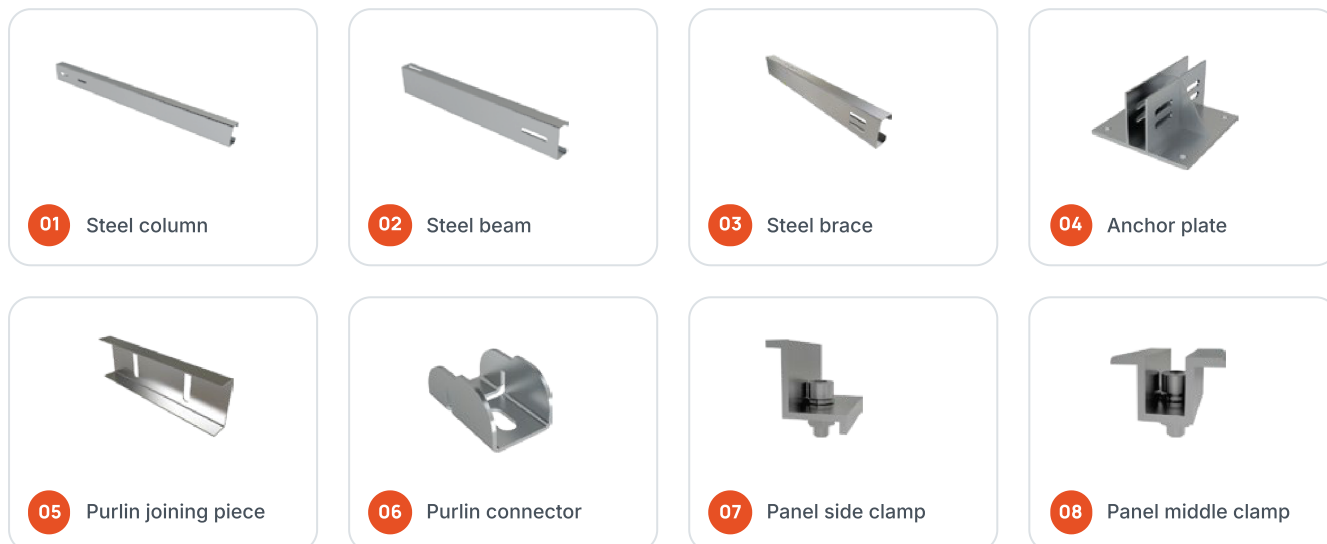
Advantages

- 01** Modules can be mounted horizontally or vertically.
- 02** Time and cost savings during installation.
- 03** Flexible solutions for different types of parking areas.
- 04** Solutions for mounting combiner boxes and inverters.
- 05** Design and engineering solutions tailored to the customer.

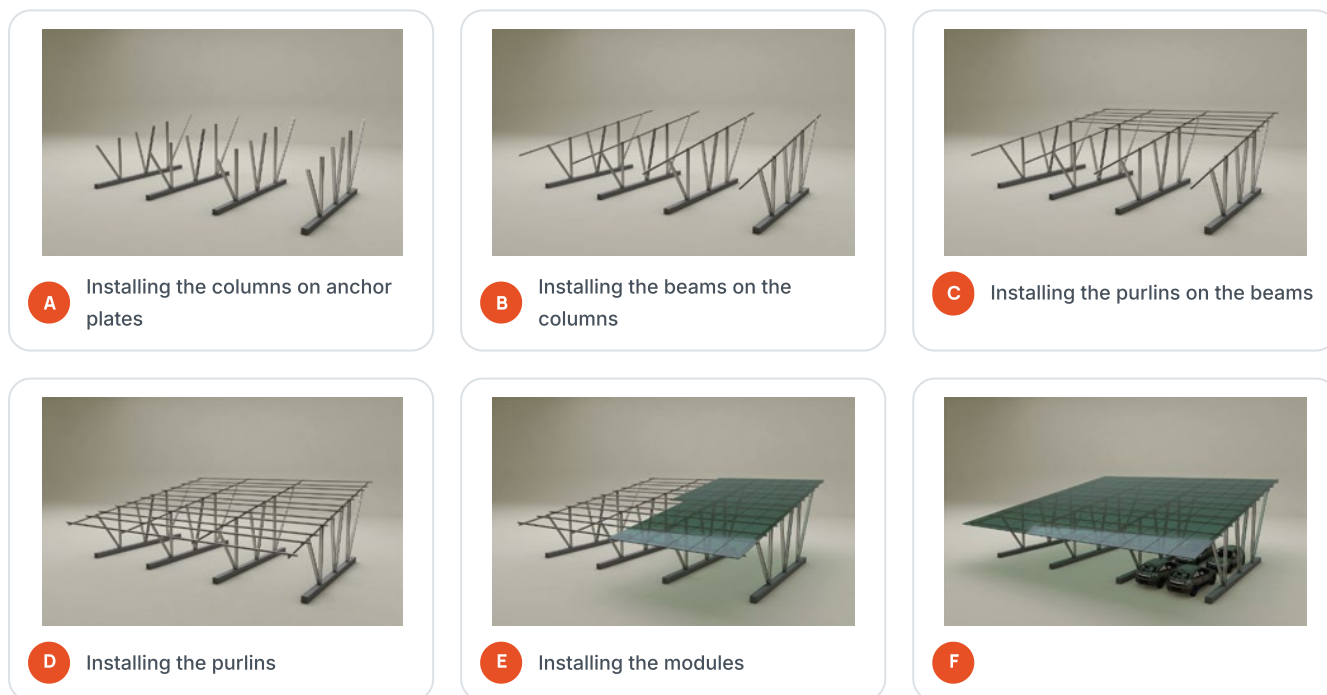
— SM10

Components and installation

Components and accessories



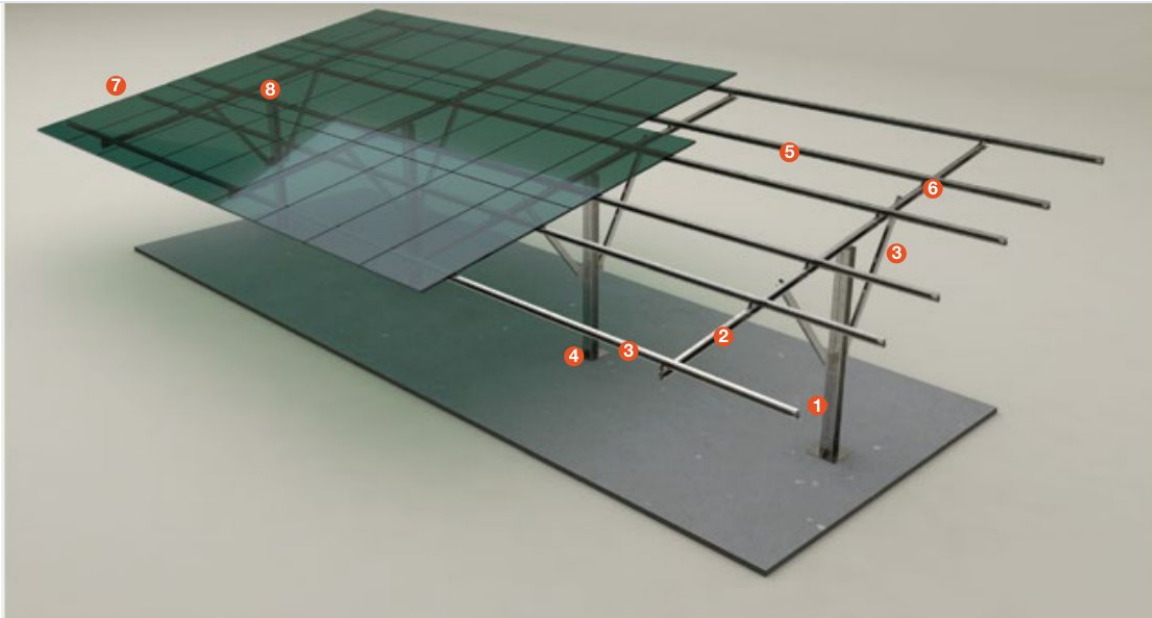
Installation stages



MOUNTING SYSTEM

SM11

Steel carport anchored on concrete



Steel support and mounting system anchored on concrete foundations, for car parks. An ideal solution for single- or multi-family homes, industrial sites and other public parking areas. Provides stability and balance in parking areas. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Anchored on concrete foundation
Tilt angle	0-60 degrees
Panels	Framed and frameless / vertical and horizontal
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

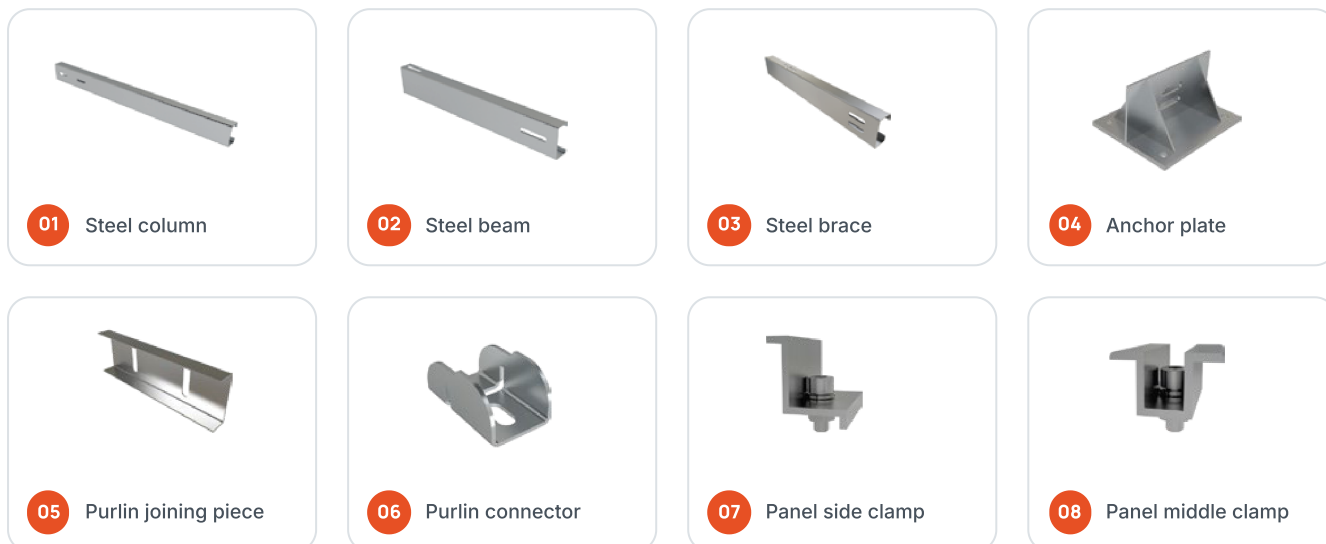
Advantages

- 01 Modules can be mounted horizontally or vertically.
- 02 Time and cost savings during installation.
- 03 Flexible solutions for different types of parking areas.
- 04 Solutions for mounting combiner boxes and inverters.
- 05 Design and engineering solutions tailored to the customer.

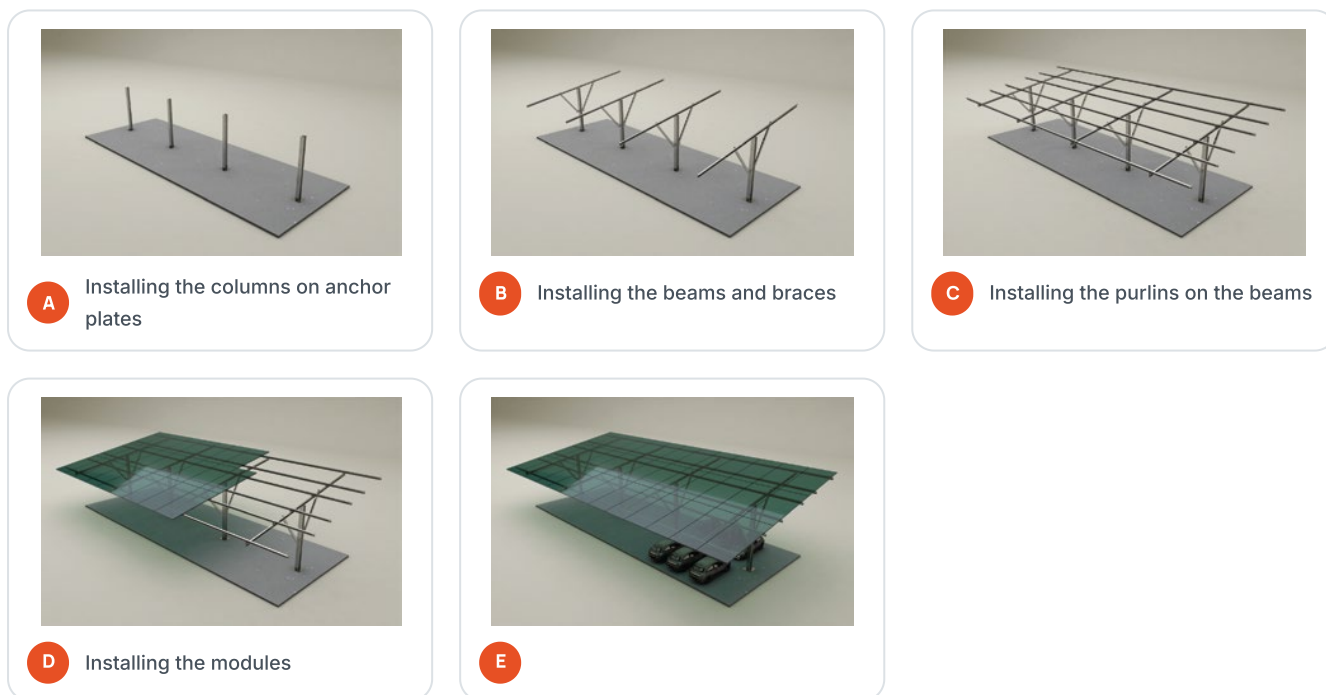
— SM11

Components and installation

Components and accessories



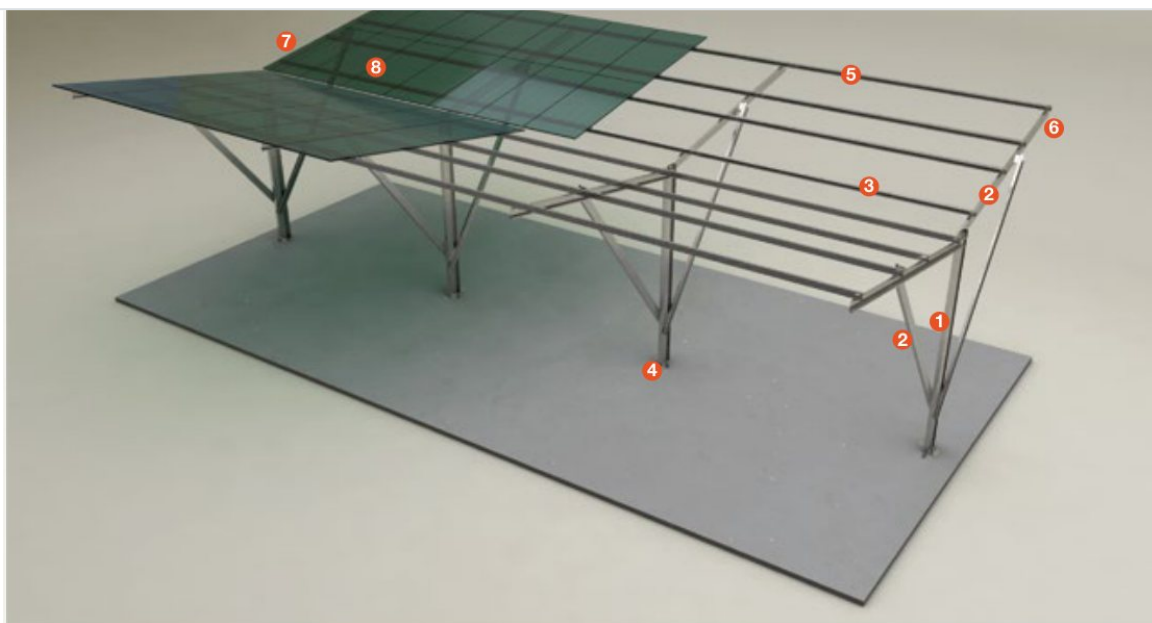
Installation stages



MOUNTING SYSTEM

SM12

Steel carport anchored on concrete



Steel support and mounting system anchored on concrete foundations, for car parks. An ideal solution for single- or multi-family homes, industrial sites and other public parking areas. Provides stability and balance in parking areas. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Anchored on concrete foundation
Tilt angle	0-60 degrees
Panels	Framed and frameless / vertical and horizontal
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

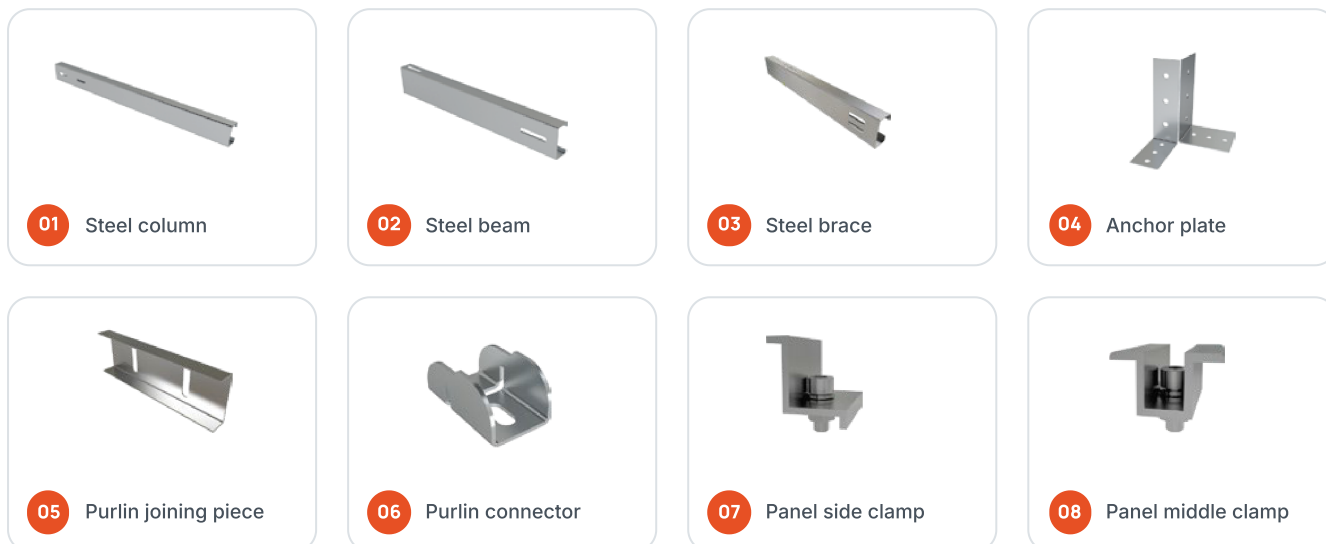
Advantages

- 01 Modules can be mounted horizontally or vertically.
- 02 Time and cost savings during installation.
- 03 Flexible solutions for different types of parking areas.
- 04 Solutions for mounting combiner boxes and inverters.
- 05 Design and engineering solutions tailored to the customer.

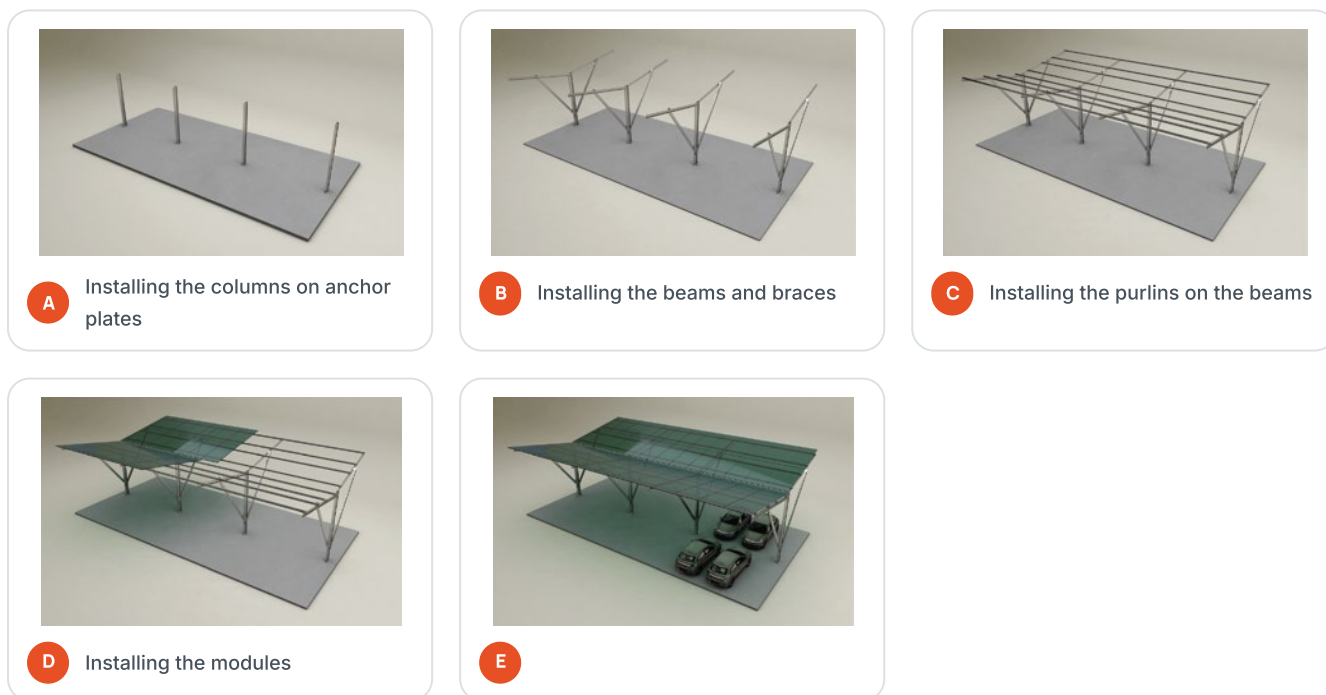
— SM12

Components and installation

Components and accessories



Installation stages



MOUNTING SYSTEM

SM (Model 4 / V - H)

Steel carport anchored on concrete



Steel support and mounting system anchored on concrete foundations, for car parks. An ideal solution for single- or multi-family homes, industrial sites and other public parking areas. Provides stability and balance in parking areas. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Anchored on concrete foundation
Tilt angle	0-60 degrees
Panels	Framed and frameless / vertical and horizontal
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

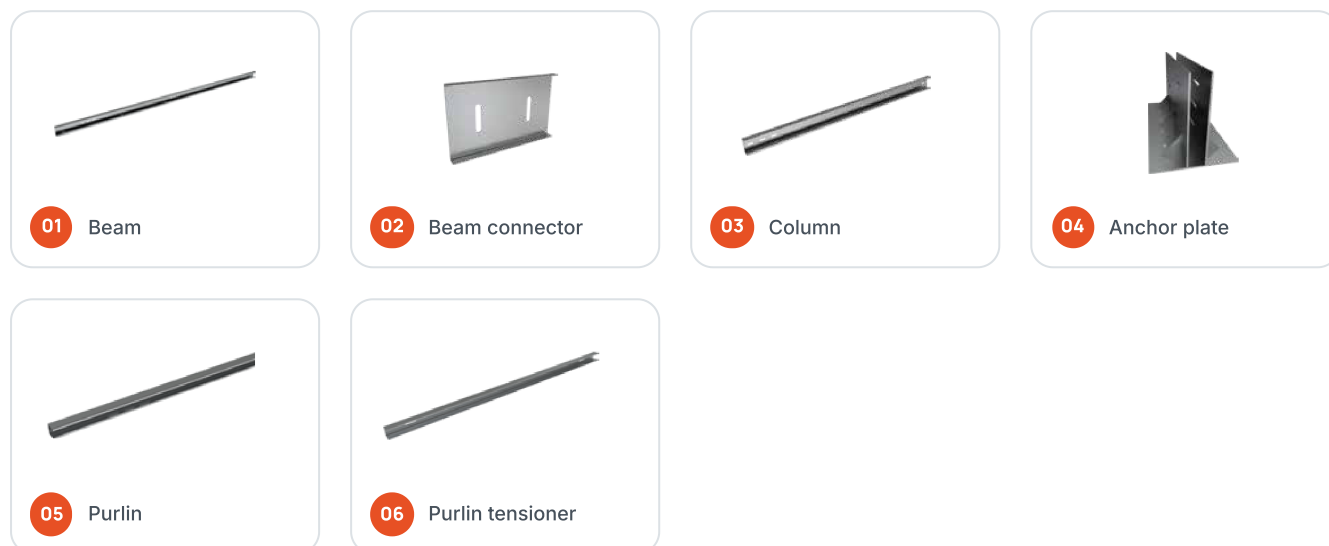
Advantages

- 01 Modules can be mounted horizontally or vertically.
- 02 Time and cost savings during installation.
- 03 Flexible solutions for different types of parking areas.
- 04 Solutions for mounting combiner boxes and inverters.
- 05 Design and engineering solutions tailored to the customer.

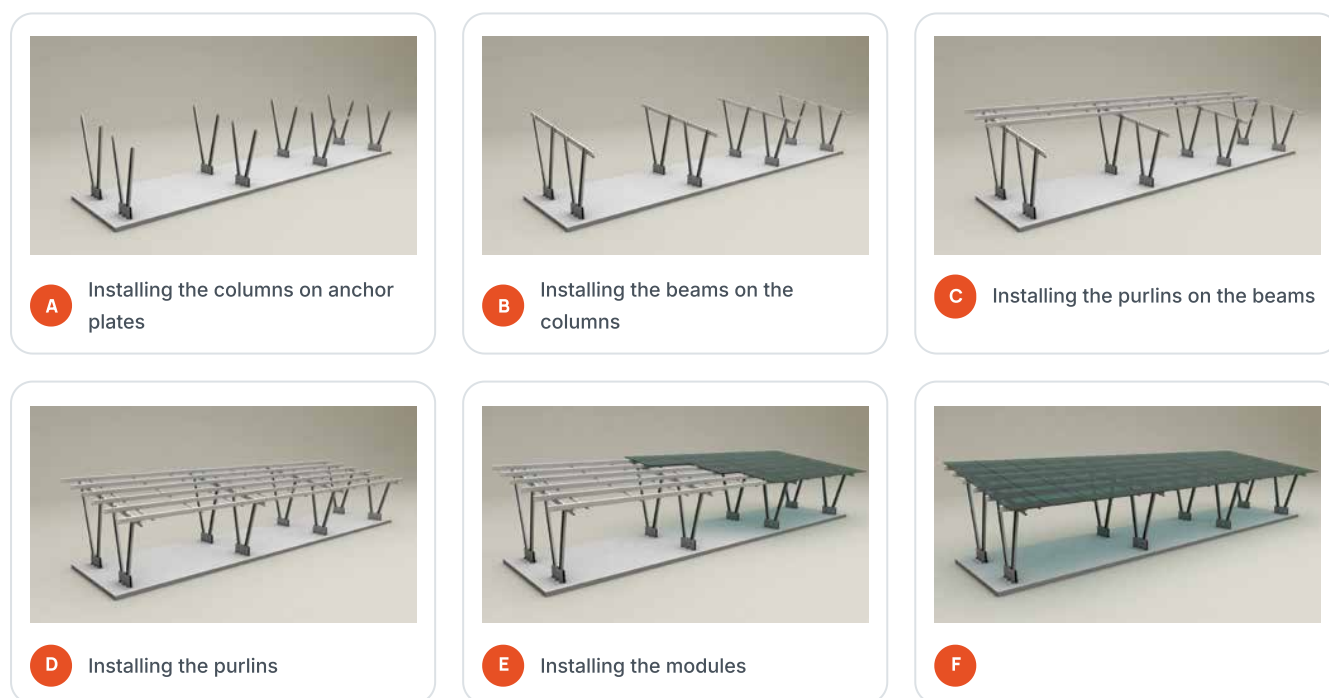
— SM (MODEL 4 / V - H)

Components and installation

Components and accessories



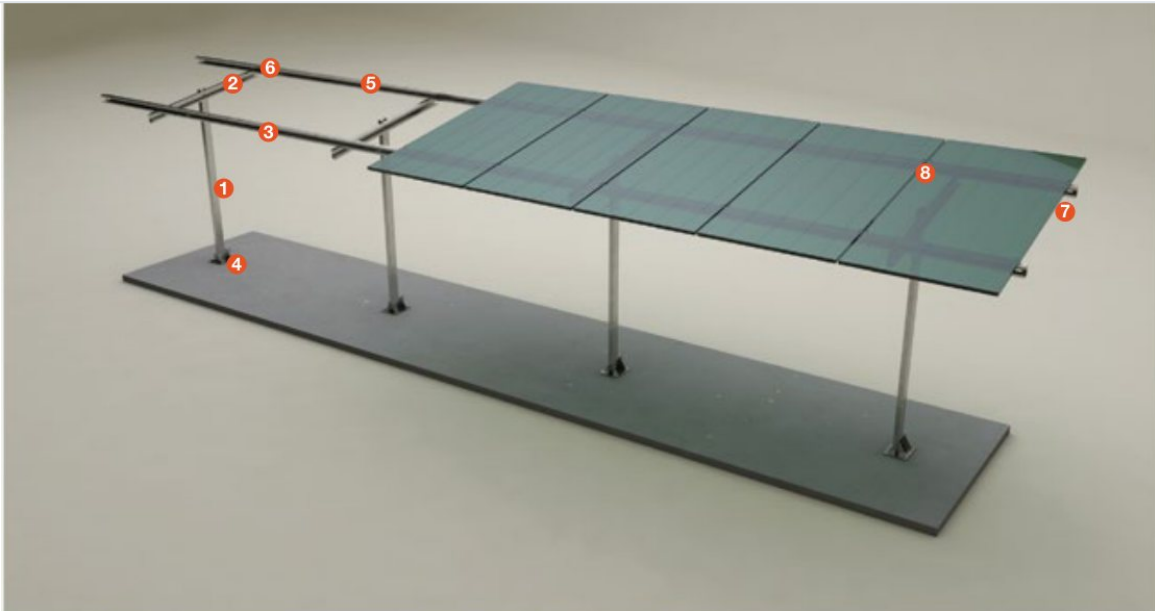
Installation stages



MOUNTING SYSTEM

SM13

Steel bikeport anchored on concrete, 1 vertical panel



Steel support and mounting system anchored on concrete foundations, for bicycle parking. An ideal solution for single- or multi-family homes, industrial sites and other public parking areas. Provides stability and balance in parking areas. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Anchored on concrete foundation
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

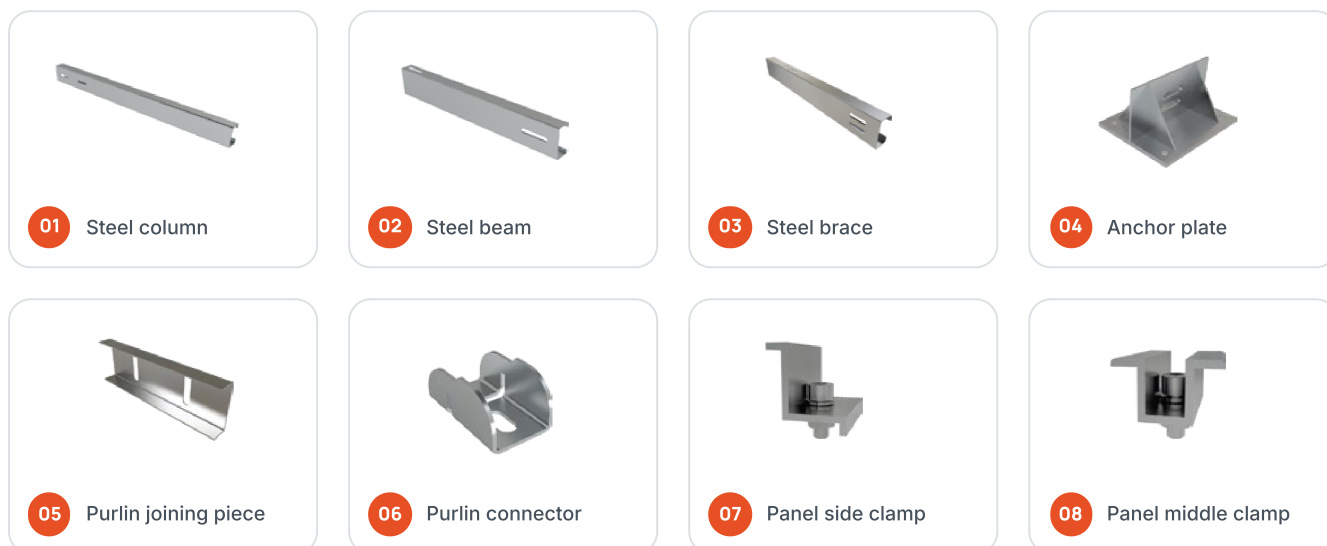
Advantages

- 01 Time and cost savings during installation.
- 02 Flexible solutions for different types of parking areas.
- 03 Solutions for mounting combiner boxes and inverters.
- 04 Design and engineering solutions tailored to the customer.

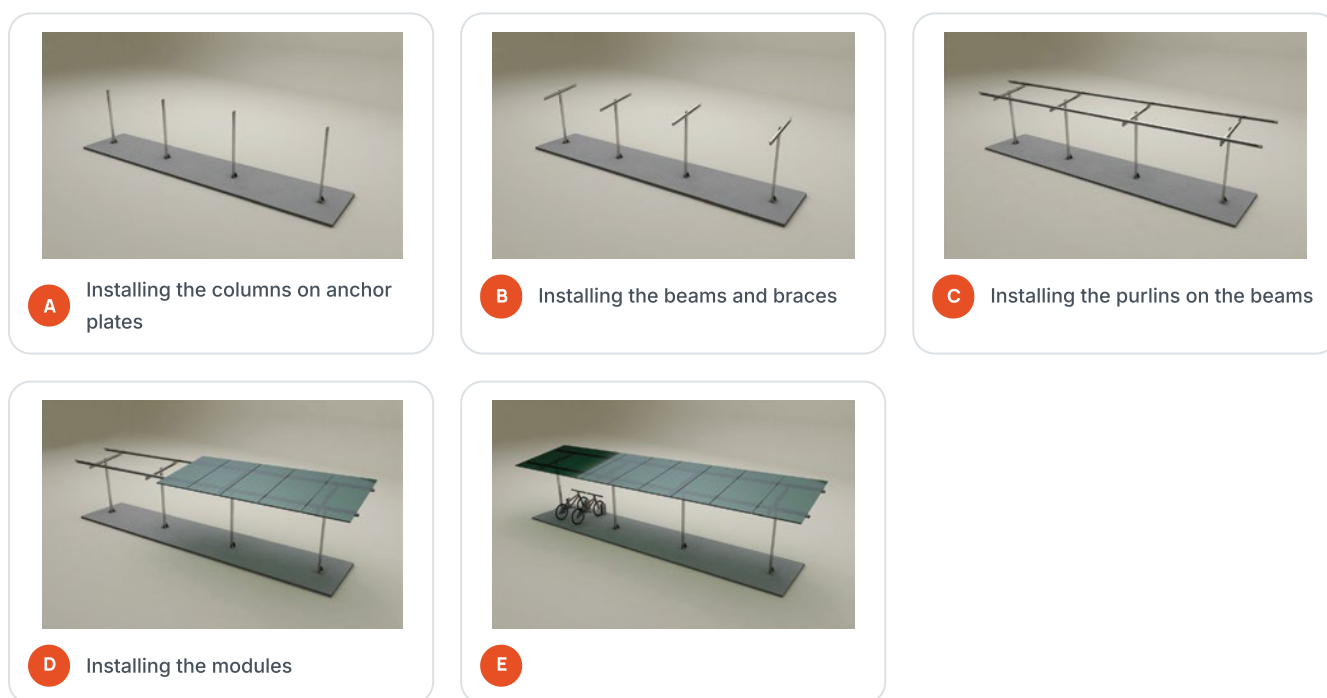
— SM13

Components and installation

Components and accessories



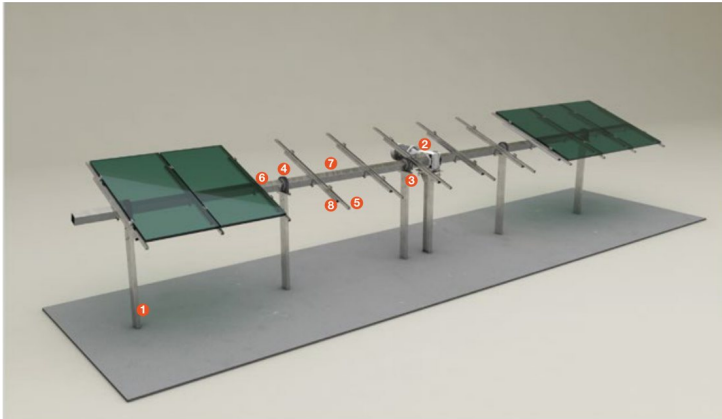
Installation stages



— SYSTEM RANGE

Solar trackers

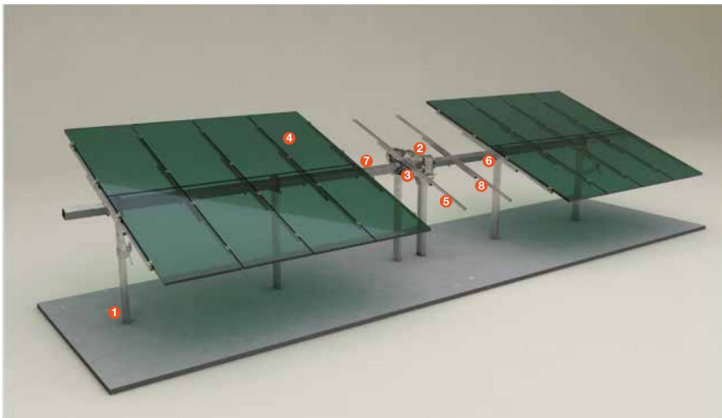
Concrete-embedded steel structures. Components and installation stages are shown for each model.



SM14

Single-axis tracker, 1 vertical module.

PAGE 50



SM15

Single-axis tracker, 2 vertical modules.

PAGE 52



04

Solar trackers

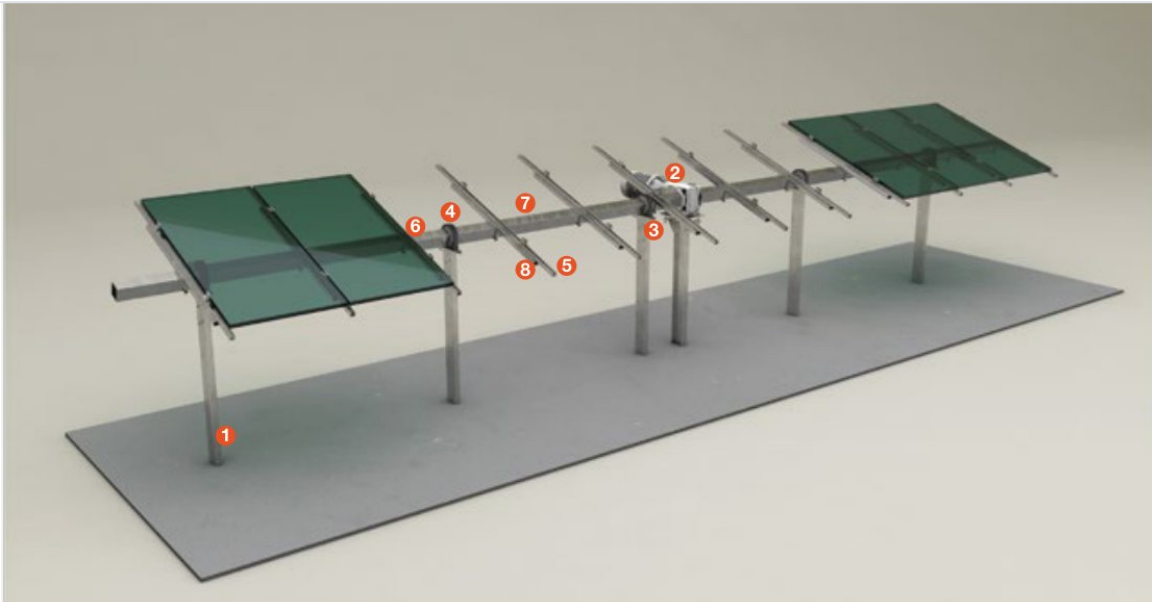
Single-axis tracking systems

Single-axis tracking systems.

— MOUNTING SYSTEM

SM14

Concrete-embedded single-axis steel tracker, 1 vertical module



Steel support and mounting system with concrete-embedded columns for open-field solar panels, with sun tracking and 1 vertical module. An optimal solution for PV projects on medium and large sites. Components are made with advanced machinery and then hot-dip galvanised for excellent corrosion resistance. Its advanced engineering design provides installation and cost advantages. It makes more efficient use of the solar panels.

Technical specifications

Mounting	Embedded in concrete
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

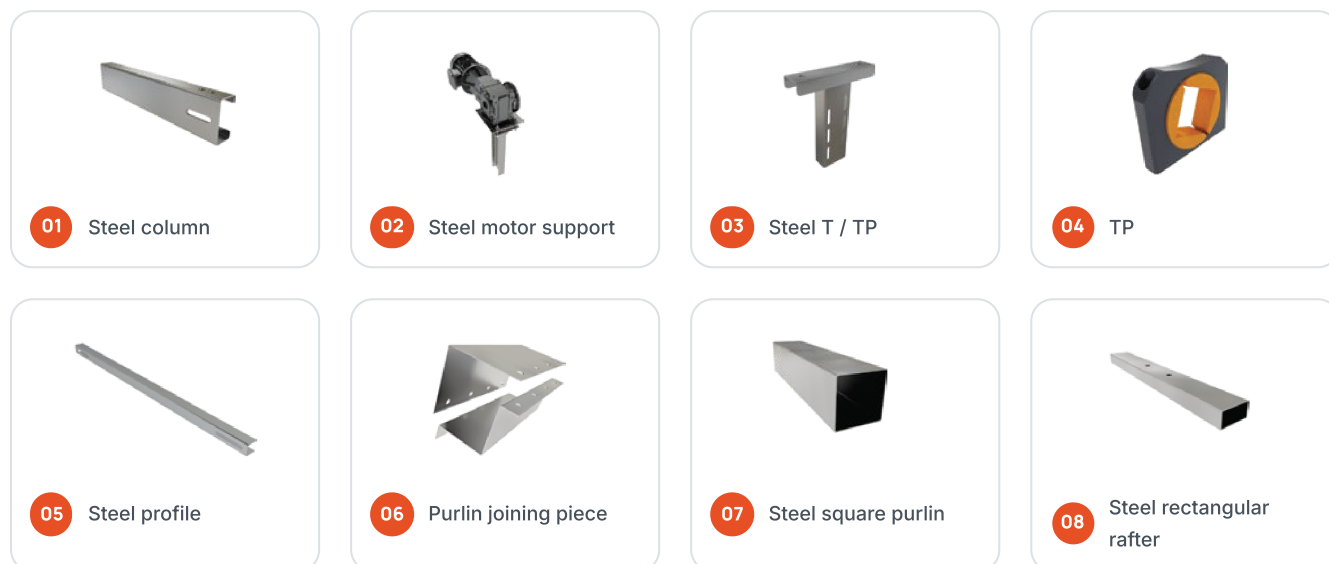
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

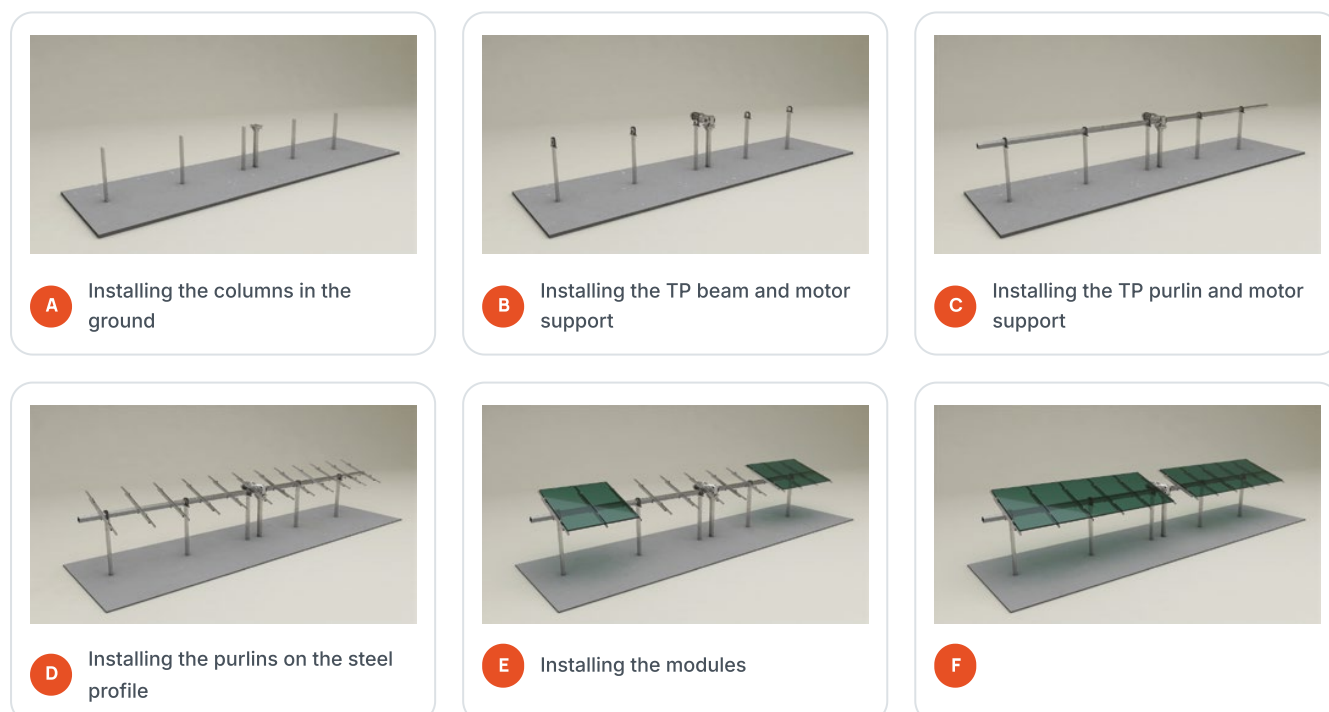
— SM14

Components and installation

Components and accessories



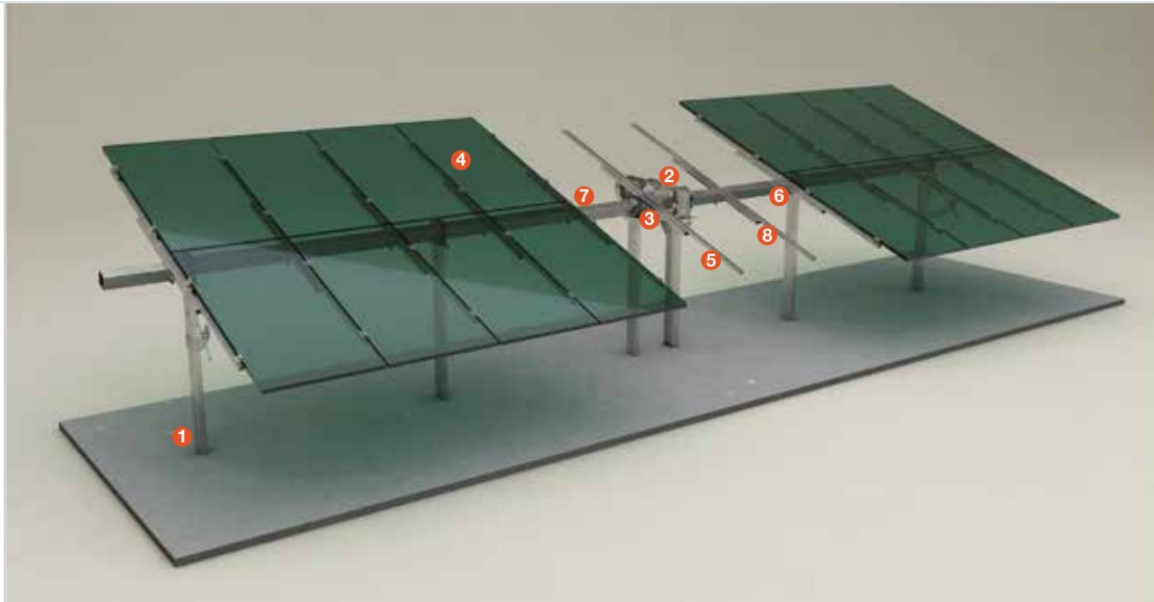
Installation stages



— MOUNTING SYSTEM

SM15

Concrete-embedded single-axis steel tracker, 2 vertical modules



Steel support and mounting system with concrete-embedded columns for open-field solar panels, with sun tracking and 2 vertical modules. An optimal solution for PV projects on medium and large sites. Components are made with advanced machinery and then hot-dip galvanised for excellent corrosion resistance. Its advanced engineering design provides installation and cost advantages. It makes more efficient use of the solar panels.

Technical specifications

Mounting	Embedded in concrete
Tilt angle	0-60 degrees
Panels	Framed and frameless
Column and beam coating	EN ISO 1461
Column and beam material	EN 10025 / EN 10029
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

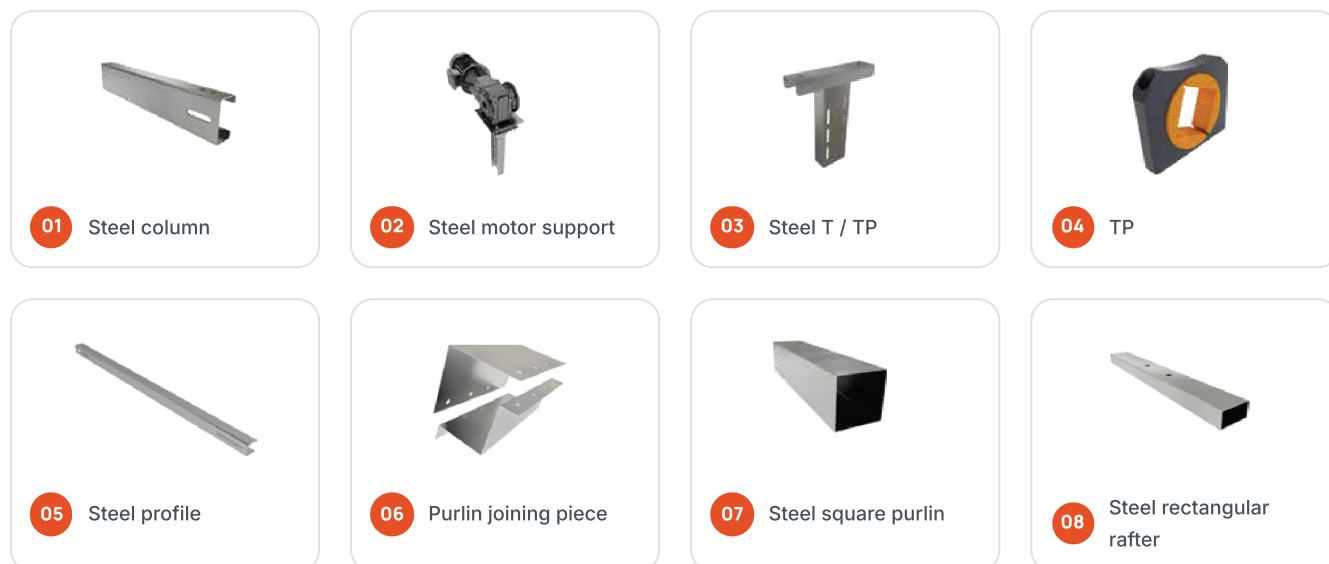
Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different terrain types.
- 03** Solutions for mounting combiner boxes and inverters.
- 04** Design and engineering solutions tailored to the customer.

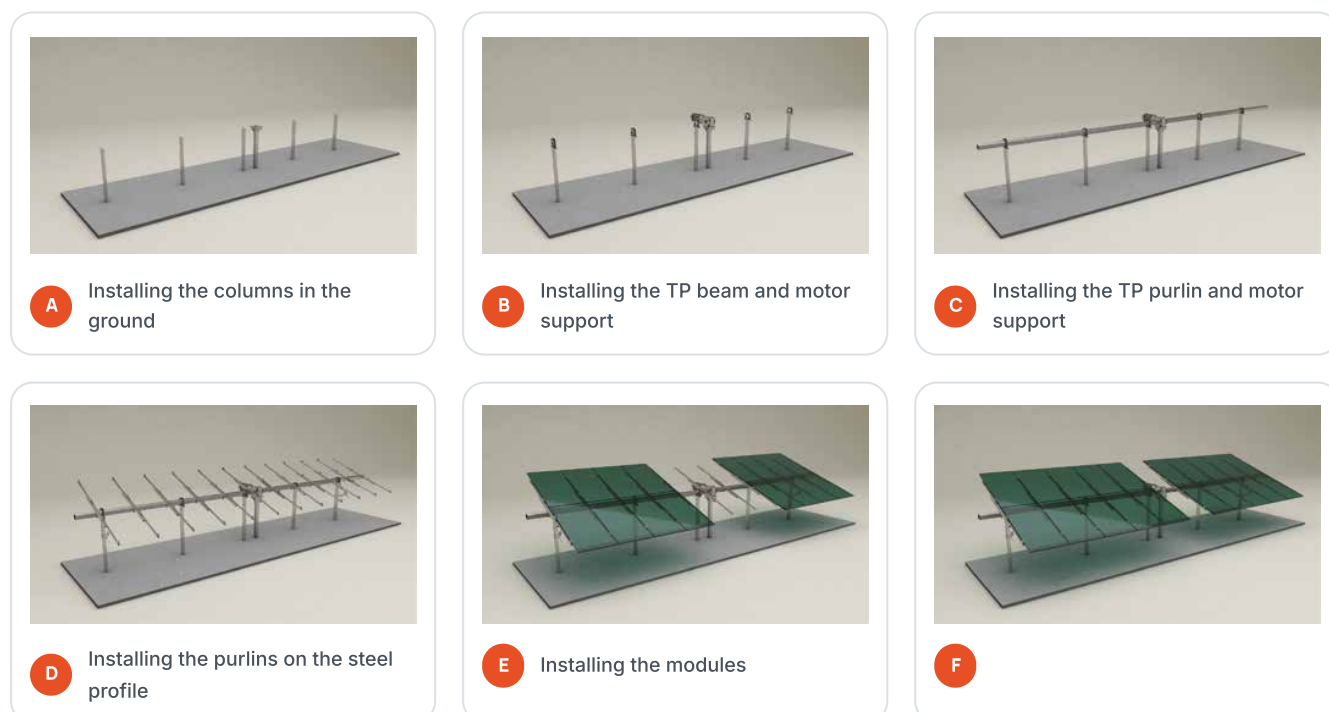
— SM15

Components and installation

Components and accessories



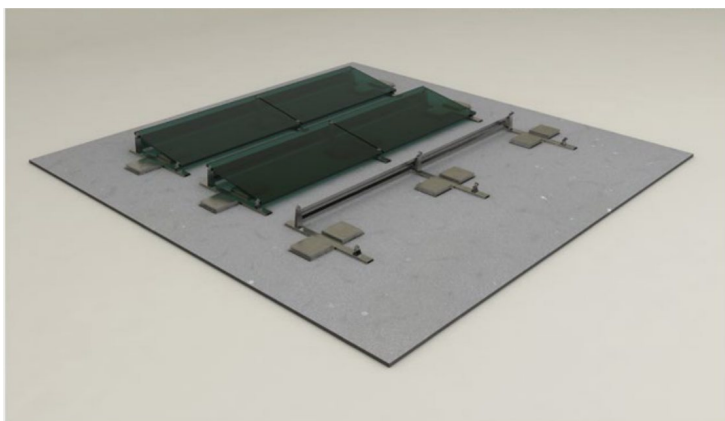
Installation stages



— SYSTEM RANGE

Roof mounting

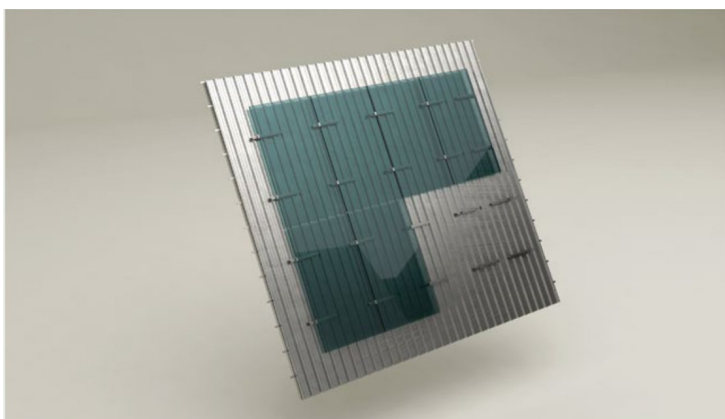
Systems with dedicated accessories: clamps, rails, purlins, profiles, supports and connectors.



SM16

Flat roof. Ballasted mounting.

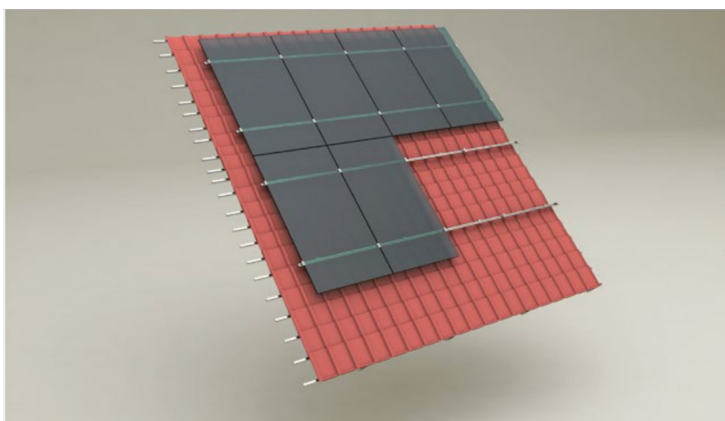
PAGE 56



SM17

Trapezoidal roof.

PAGE 58



SM18

Tile roof.

PAGE 60



05

Roof mounting

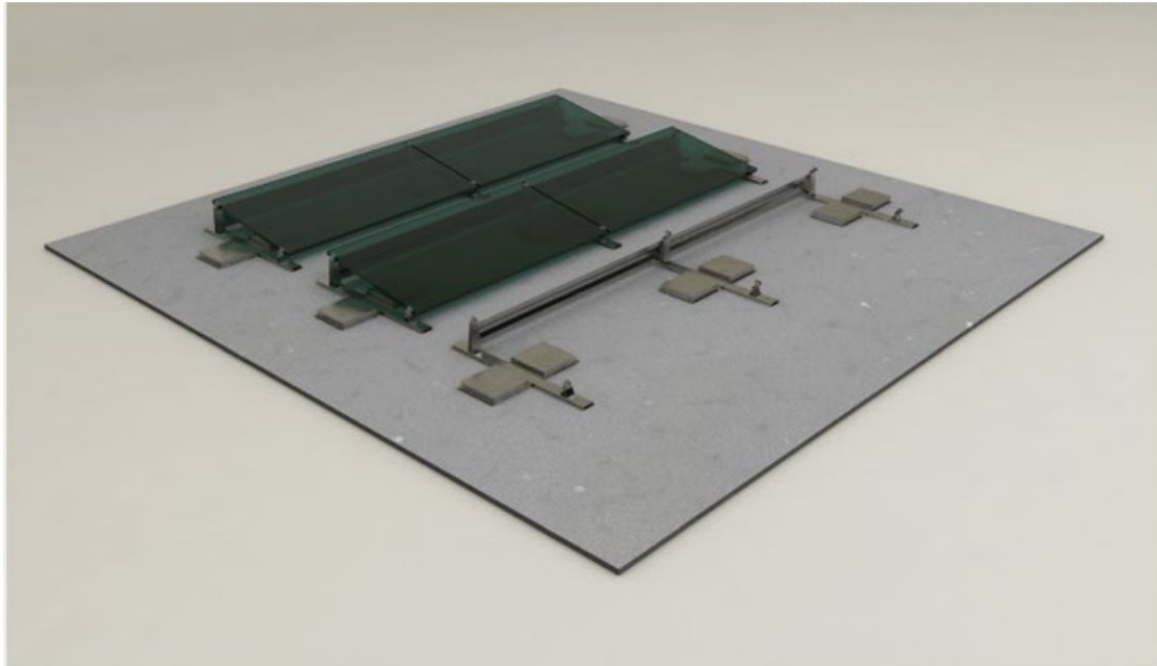
Flat, trapezoidal and tile roofs

Systems for flat or pitched surfaces.

— MOUNTING SYSTEM

SM16

Solar mounting system for flat roofs



SM16

Aluminium mounting system for flat roofs, held in place by ballast. An optimal solution for PV installations on large and small roofs. No fasteners are required for installation. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Ballasted mounting
Tilt angle	10-15 degrees
Panels	Framed
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different roof types.
- 03** Ballasted mounting.
- 04** Design and engineering solutions tailored to the customer.

— SM16

Components and installation

Components and accessories



01 Aluminium middle clamp



02 Aluminium side clamp



03 Mounting rail



04 Wind deflector



05 Panel front holder

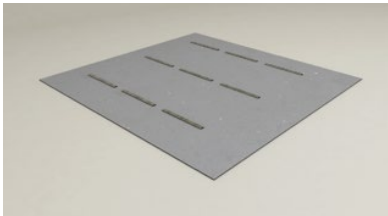


06 Panel back holder

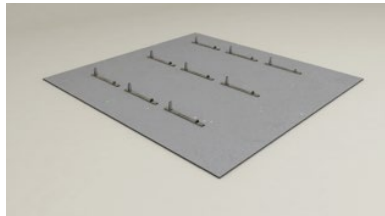


07 Ballast holder

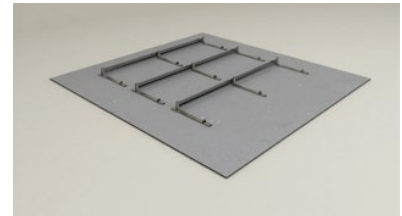
Installation stages



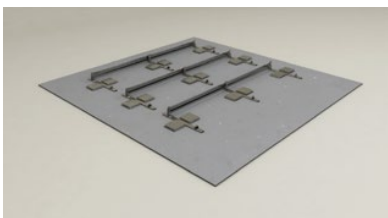
A Installing the concrete anchors



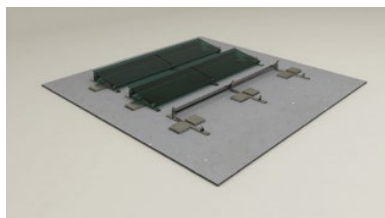
B Installing the beams on the columns



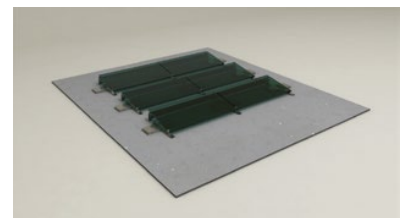
C Installing the beam-purlin diagonals



D Installing the beam on the purlins



E Installing the modules

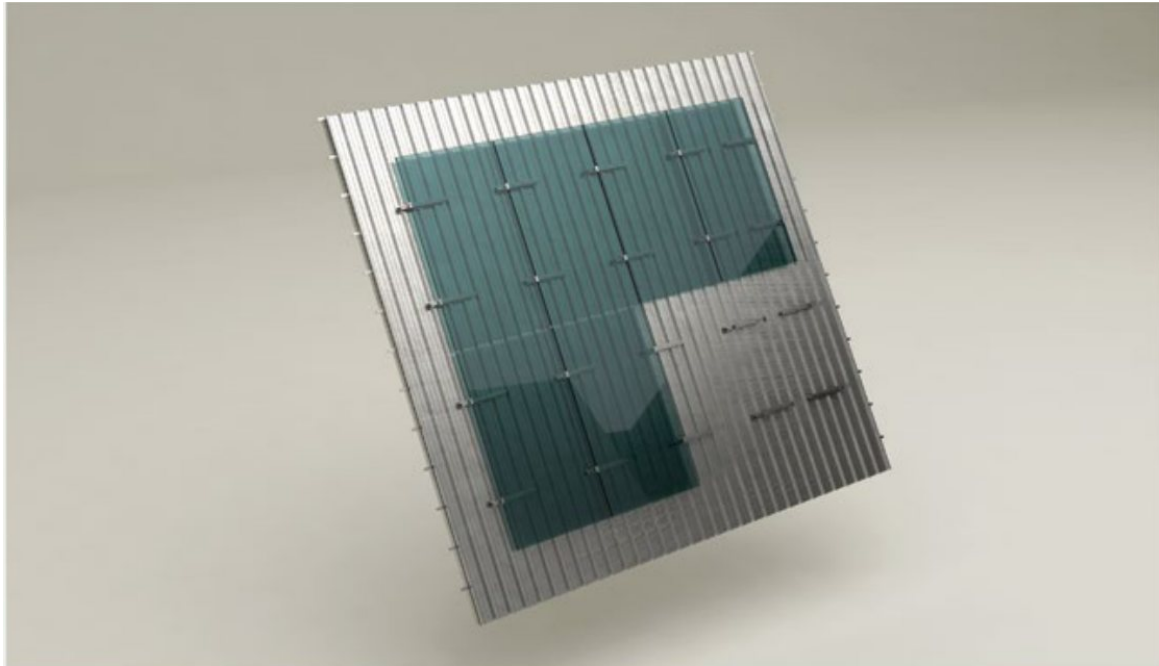


F

— MOUNTING SYSTEM

SM17

Solar mounting system for trapezoidal roofs



SM17

Aluminium mounting system for trapezoidal roofs, held in place by ballast. An optimal solution for PV installations on large and small roofs. No fasteners are required for installation. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Pitched roof mounting
Panels	Framed and frameless
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

Advantages

- 01 Time and cost savings during installation.
- 02 Flexible solutions for different roof types.
- 03 Horizontal and vertical positioning.
- 04 Design and engineering solutions tailored to the customer.

— SM17

Components and installation

Components and accessories



01 Middle clamp set

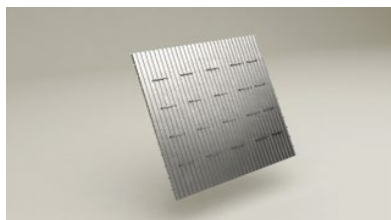


02 Side clamp set

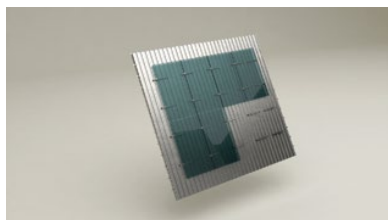


03 Roof profile (TCAA)

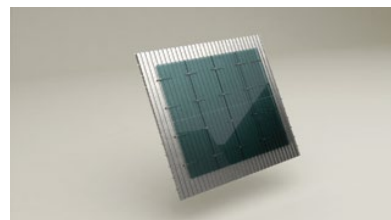
Installation stages



A Installing the purlins



B Installing the modules

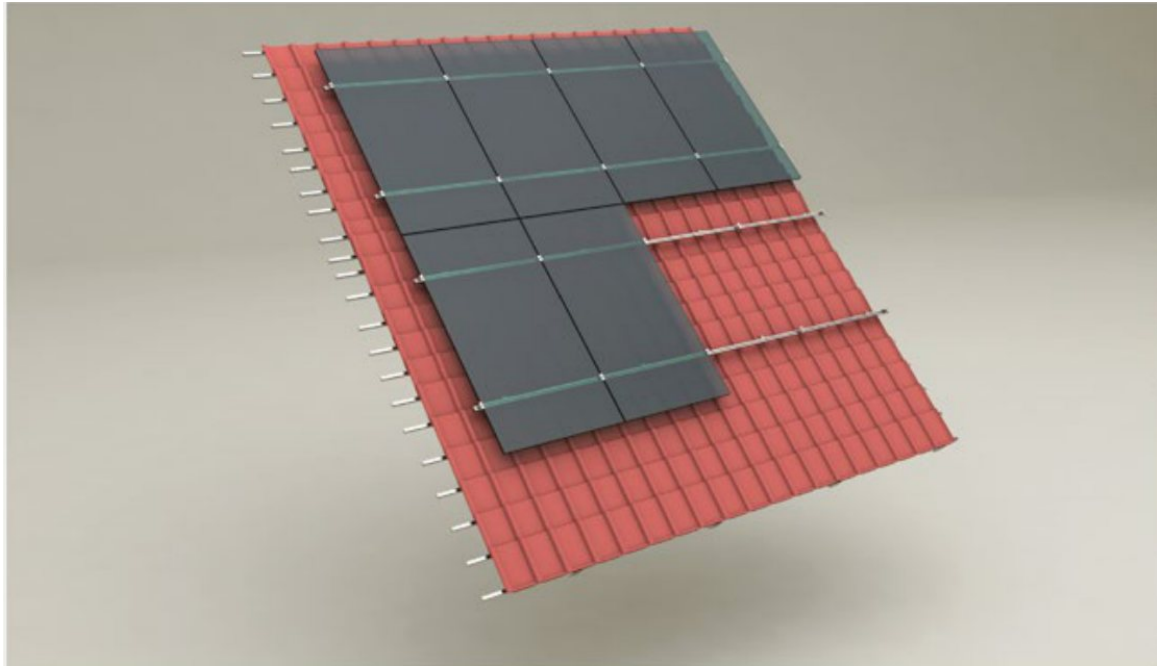


C

— MOUNTING SYSTEM

SM18

Solar mounting system for tile roofs



SM18

Steel and aluminium mounting system for tile roofs. An optimal solution for PV installations on large and small roofs. No fasteners are required for installation. Its advanced engineering design provides installation and cost advantages.

Technical specifications

Mounting	Pitched roof mounting
Panels	Framed and frameless
Panel clamps	EN AW 6063
Fasteners	DIN 125 / DIN 127 / DIN 934 / DIN 933 / DIN 912, A2-70 DIN 50979

Advantages

- 01** Time and cost savings during installation.
- 02** Flexible solutions for different roof types.
- 03** Horizontal and vertical positioning.
- 04** Design and engineering solutions tailored to the customer.

— SM18

Components and installation

Components and accessories



01 Aluminium purlin



02 Tile purlin connector

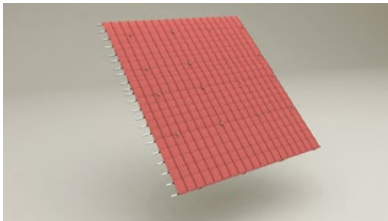


03 Panel side clamp

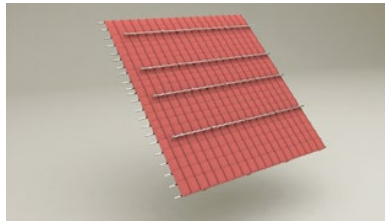


04 Panel middle clamp

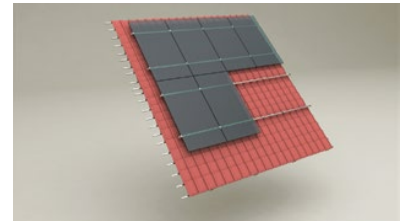
Installation stages



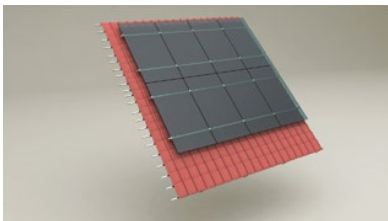
A Installing the tile connection piece



B Installing the purlins



C Installing the modules



D



Solar mounting systems and accessories

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AVAILABILITY IS CONFIRMED FOR EACH PRODUCT.