



CW ALUMİNYUM
Construction Systems Catalog
2026



CW Aluminum Mission

As CW Aluminum, we manufacture frames, mounting apparatus, and infrastructure materials for renewable energy technologies; thanks to our mounting systems developed with superior technology and engineering, we provide the sector with reliable and long-lasting solutions. By developing functional and innovative products tailored to customer needs, we keep quality and efficiency at the highest level.

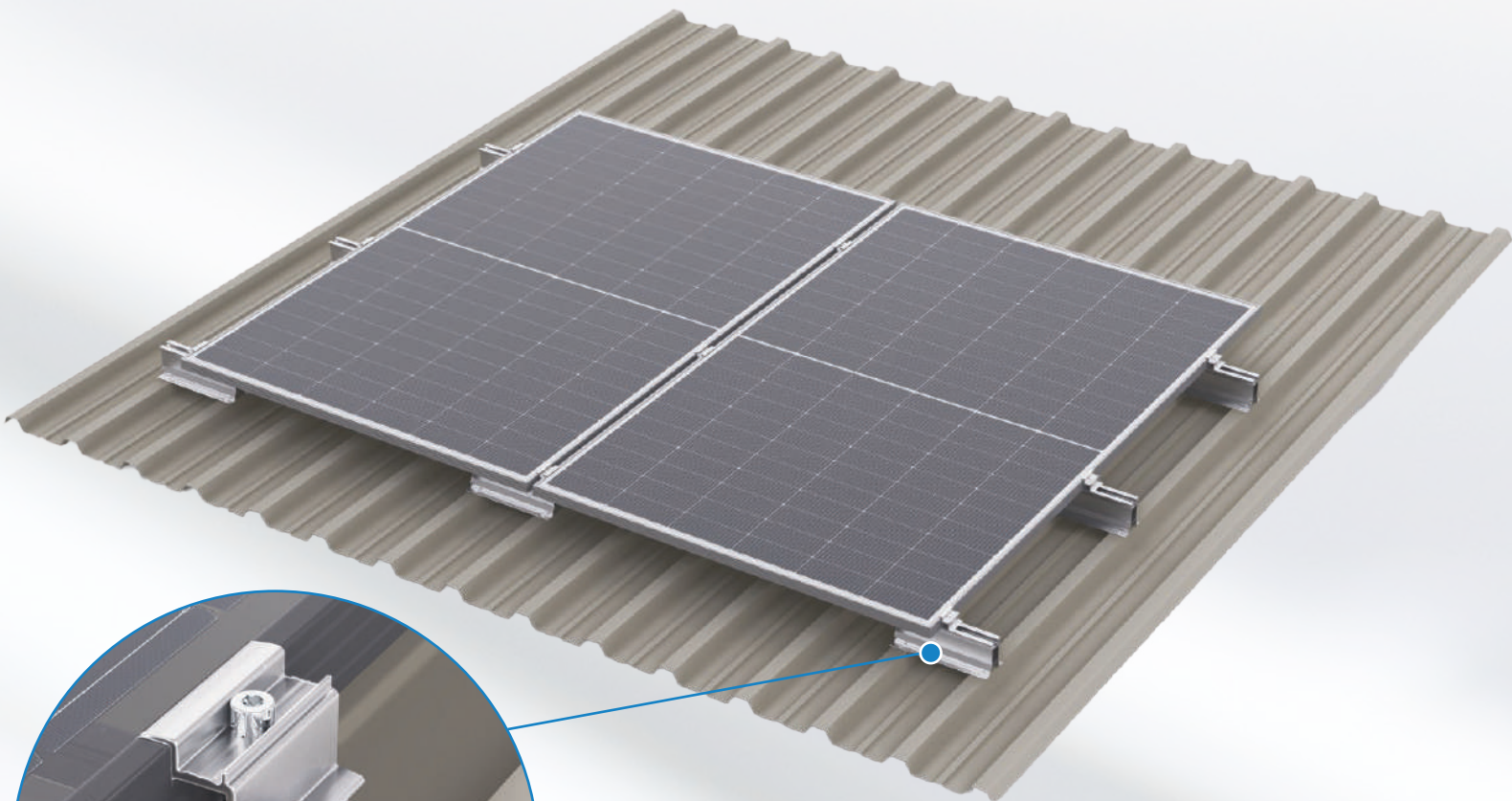
In EPC projects, we increase customer satisfaction by using our solar panels and construction solutions in an integrated way, while ensuring more efficient and sustainable results in sales processes. By strengthening our domestic production capacity, we contribute both to economic growth and to adding value to the future by supporting sustainable energy infrastructure.



CW Aluminum Vision:

By producing high-tech frames, mounting apparatus, and infrastructure materials for renewable energy technologies, with our customer-oriented approach, continuously growing production capacity, and engineering strength, we aim to achieve a strong position on a global scale in renewable energy solutions.

Diamond Series



This construction system, developed for trapezoidal and sandwich roofs, offers 60 mm and 80 mm height options and is mounted on top of the roof pitch. Pointed-tip screws for stainless sheet or suitable rivets can be used in the installation. The wide bottom opening ensures easy installation, while the top opening supports both horizontal and vertical mounting. Thanks to the EPDM tape, roof sealing is ensured. Designed with static calculations, it is a lightweight and durable system suitable for wind, snow, and earthquake loads.

Technical Data Details

Height:	H: 50mm - 60mm - 80mm
Length:	Partial Profile or Full-Length Profile
Application Areas:	Trapezoidal and 2-3-4-5 Rib Sandwich Roofs
Mounting Type:	Suitable for Horizontal and Vertical Mounting
Roof Fixing Method:	Pointed-Tip Screw or Rivet (Pop/Butterfly/Sealed Gasket Rivet)
Construction Material Detail:	EN AW 6063 T66

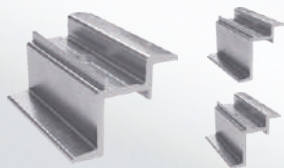
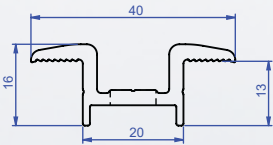
İlgili Sistem Bileşenleri



Renewable Energy Technologies



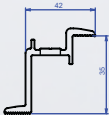
MID CLAMP
With 50 - 60 - 70 MM Options
CW-02-0041



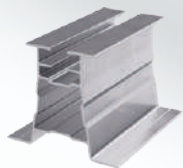
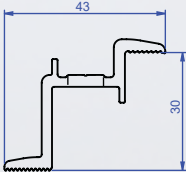
END CLAMP
With 30 - 35 - 40 MM Options
CW-02-0042



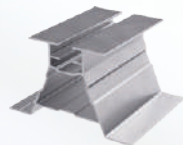
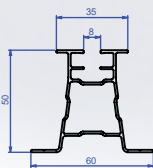
40 MM
END CLAMP
CW-02-0044



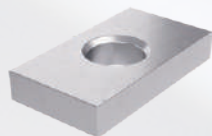
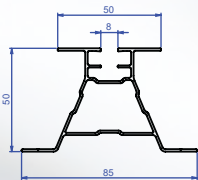
35 MM
END CLAMP
CW-02-0043



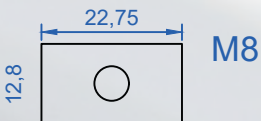
Purlin Profile
50 mm – 60 mm – 80 mm Options
CW-02-0049 | CW-02-0059 | CW-02-0079



50 mm
Purlin Profile
(Vertical / Horizontal)
CW-02-0050



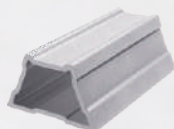
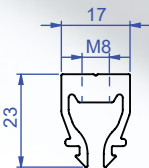
Rectangular Stainless Steel Nut
SF-SMN-M8-DIKDÖRTGEN



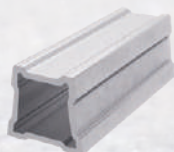
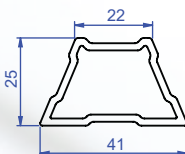
M8



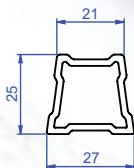
Claw Nut
17 mm
CW-02-0057



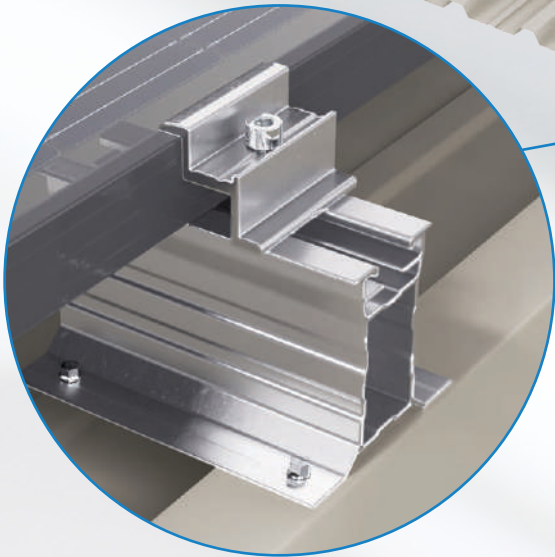
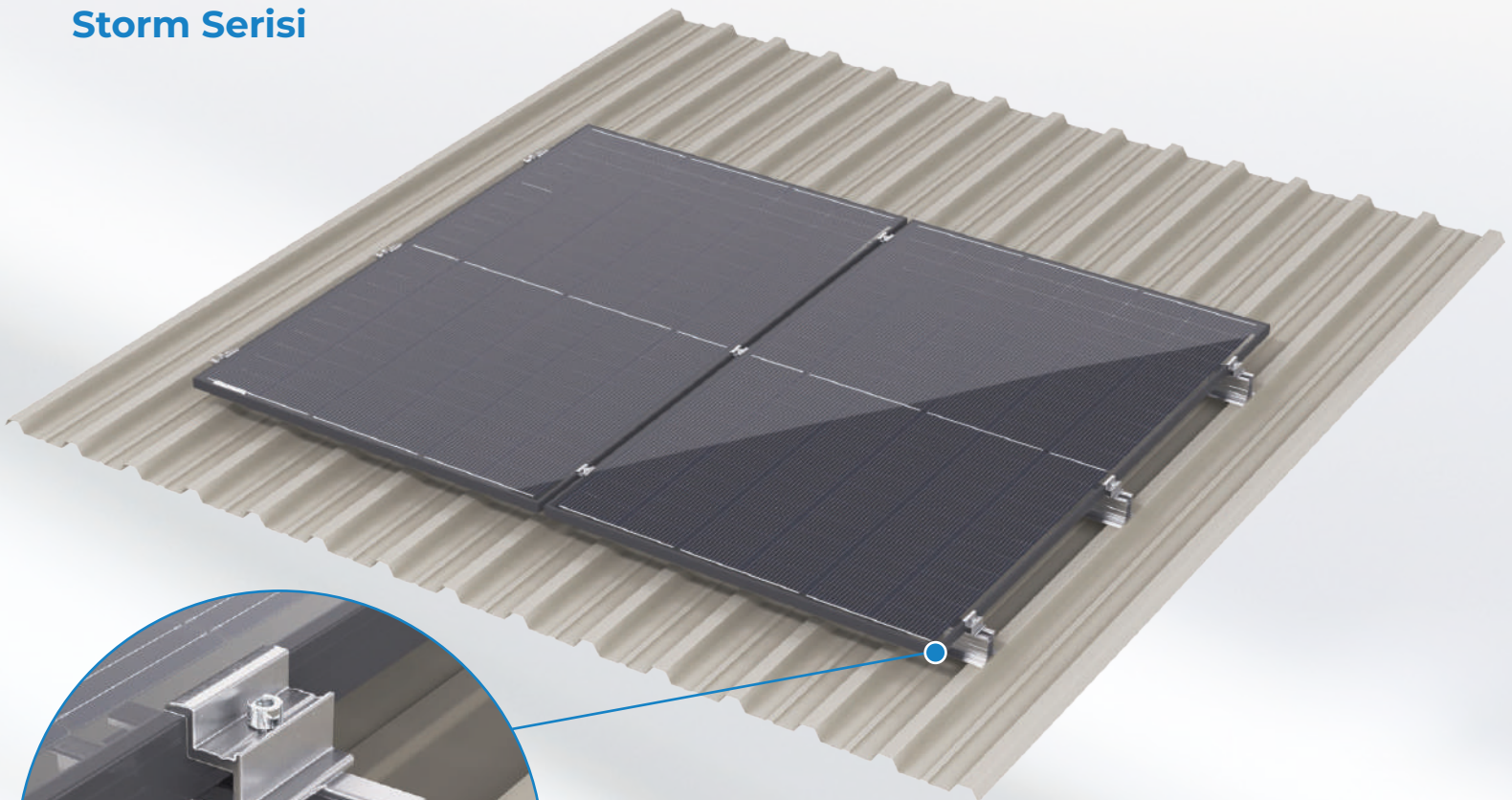
50 mm
Purlin IConnection Profile with Ear
CW-02-0067



50 mm
Purlin Connection Profile without Ear
CW-02-0068



Storm Serisi

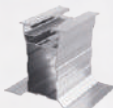
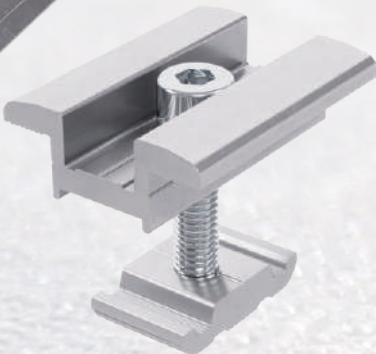
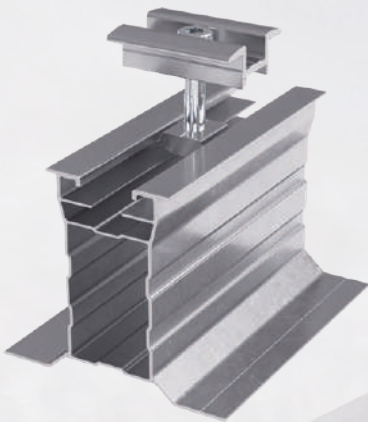


This construction system, developed for trapezoidal and sandwich roofs, offers height options of 60 mm and 80 mm and is mounted from the top onto the roof corrugation. Sharp-pointed screws for stainless steel sheets or suitable rivets can be used for installation. The wide lower opening ensures easy installation, while the upper opening supports both horizontal and vertical mounting. Roof sealing is achieved with an EPDM tape. The system is designed to be lightweight and durable, in compliance with wind, snow, and seismic loads through structural calculations.

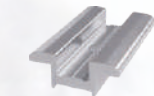
Technical Data Details

Height:	H: 60mm - 80mm
Length:	Cut Profile or Full-Length Profile
Application Areas:	Trapezoidal and 2-3-4-5 Corrugated Sandwich Roofs
Mounting Type:	Suitable for Horizontal and Vertical Mounting
Roof Fixing Method:	Sharp-Pointed Screw or Rivet (Pop/Sealed/Waterproof Rivet)
Construction Material Detail:	EN AW 6063 T66

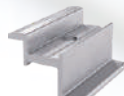
Relevant System Components



Relevant System Components



Mid Clamp
(Storm/Diamond Model)



End Clamp
(Storm/Diamond Model)



Sharp-Pointed Screw
(A2 70)



Thin Flat
Nut

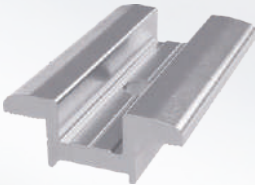


Hex Socket Bolt
(M8x20 - 25 - 30 - 35 - 40)
(A2 70)

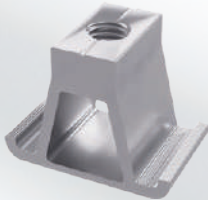
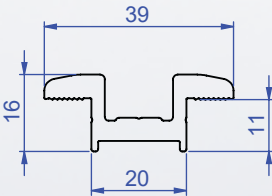


EPDM Tape

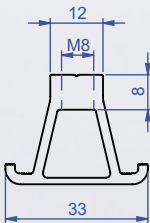
Storm Series System Component Details



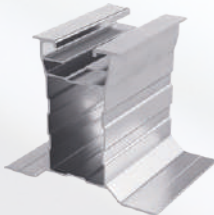
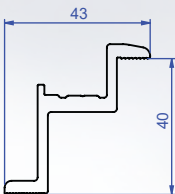
Mid Clamp
50 – 60 – 70 – 80 mm Options
CW-02-0001



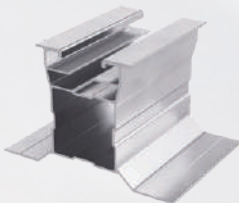
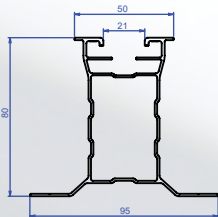
Nut
18 mm
CW-02-0002



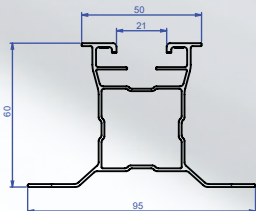
End Clamp
30 – 35 – 40 mm Options
CW-02-0003



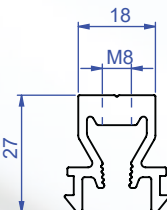
80 mm
Purlin Profile
CW-02-0045



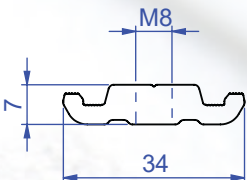
60 mm
Purlin Profile
CW-02-0046



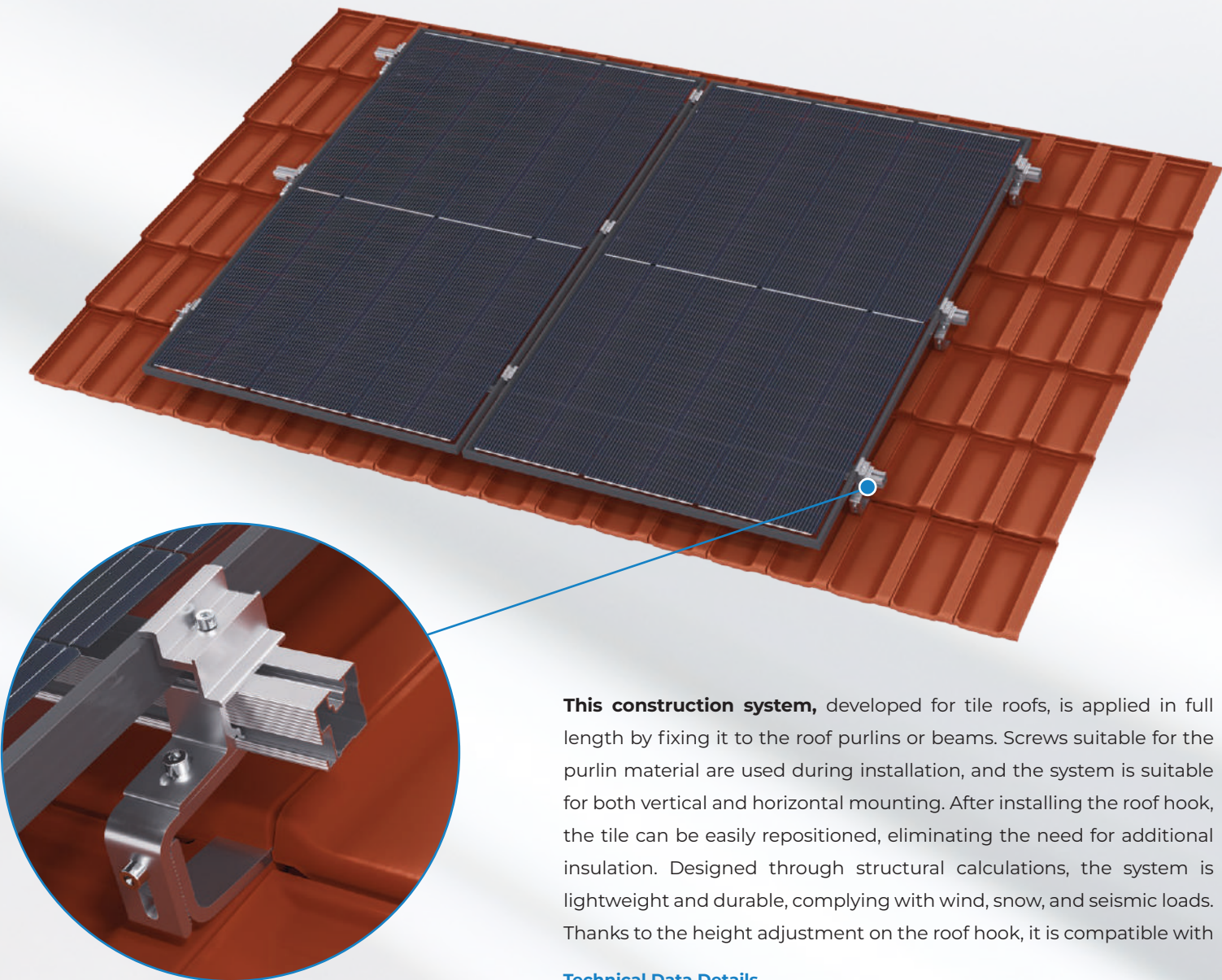
Claw Nut
18 mm
CW-02-0052



Thin Flat
Nut
CW-02-0053



Tile Roof Hook



This construction system, developed for tile roofs, is applied in full length by fixing it to the roof purlins or beams. Screws suitable for the purlin material are used during installation, and the system is suitable for both vertical and horizontal mounting. After installing the roof hook, the tile can be easily repositioned, eliminating the need for additional insulation. Designed through structural calculations, the system is lightweight and durable, complying with wind, snow, and seismic loads. Thanks to the height adjustment on the roof hook, it is compatible with

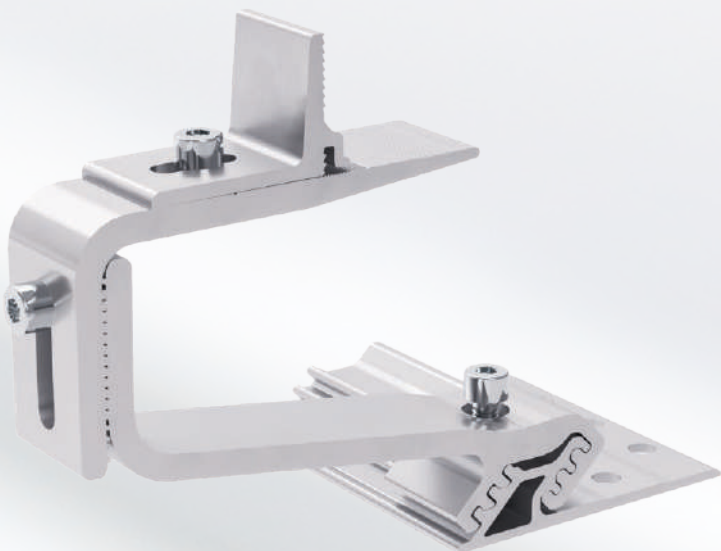
Technical Data Details

Height:	H: 40 mm
Length:	Full-Length Profile
Application Areas:	Tile Roofs
Mounting Type:	Roof Purlins
Roof Fixing Method:	Fasteners Suitable for Roof Purlins (Wood, Concrete, Steel)
Construction Material Detail:	EN AW 6063 T66

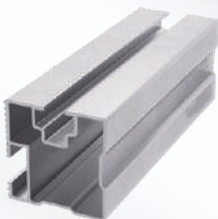
Relevant System Components



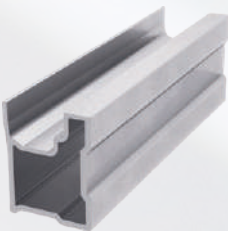
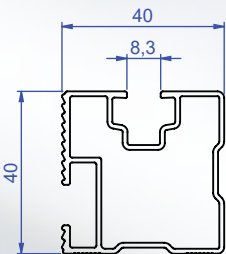
Tile Roof System Component Details



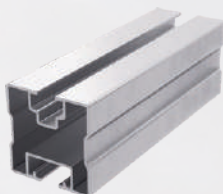
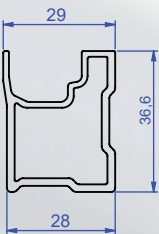
Roof Hook
CW-02-0200



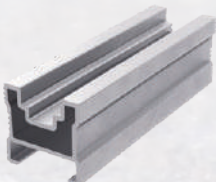
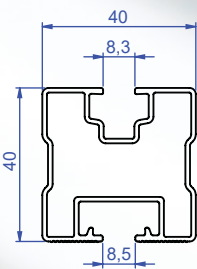
Tile and Standing Seam
Roof Profile
40 mm
CW-02-0061



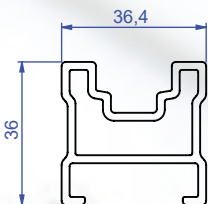
Tile and Standing Seam
Roof Connection Profile
40 mm
CW-02-0062

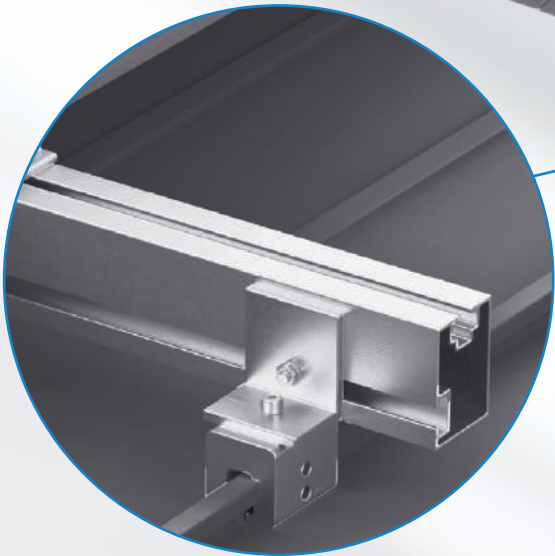
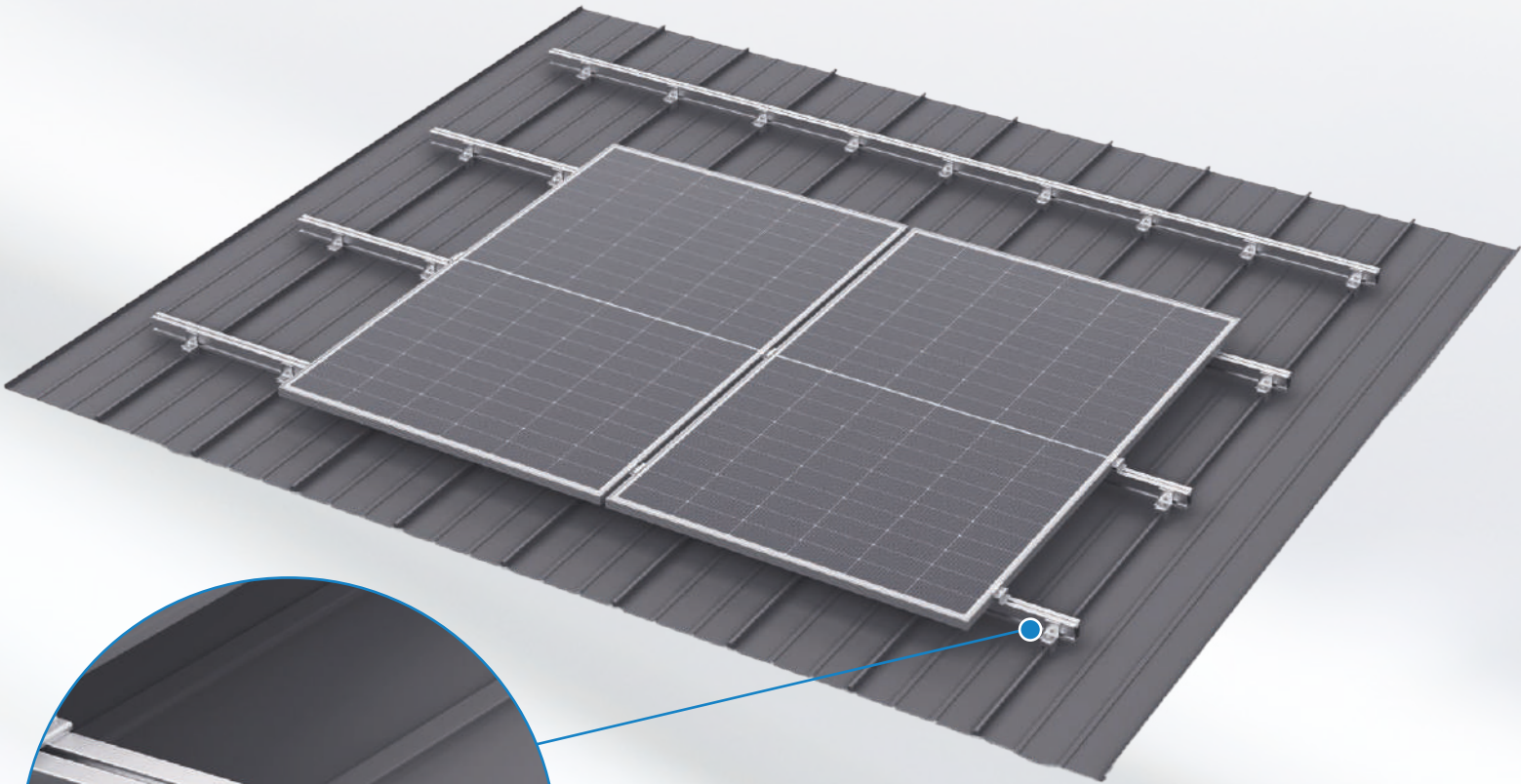


Roof Profile
40 mm
CW-02-0205



Roof Connection Profile
40 mm
CW-02-0206



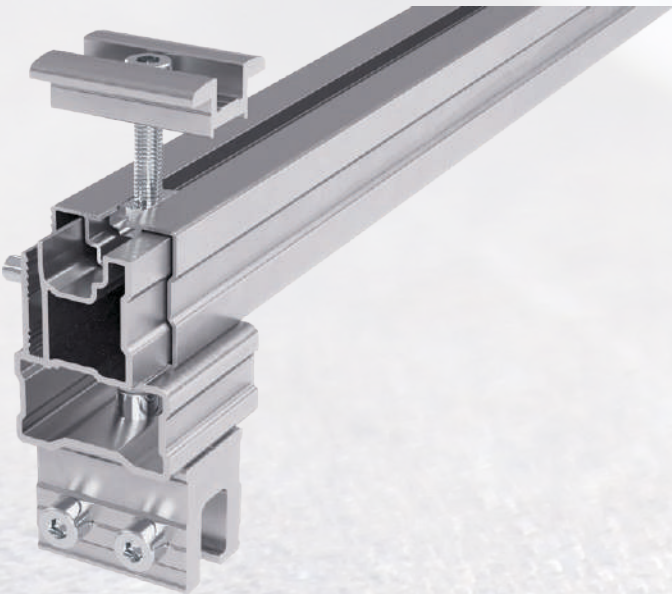


This construction system is mounted to the roof using a clamping method, with screws integrated into the connection components. It is suitable for both vertical and horizontal mounting. Thanks to the clamping method, no drilling is required on the roof, preventing damage to the insulation. Designed through structural calculations, the system is lightweight and durable, complying with wind, snow, and seismic loads. The installation uses a seam clamp, L bracket, and full-length profile.

Technical Data Details

Height:	H: 60 mm
Length:	Full-Length Profile
Application Areas:	Standing Seam Roofs
Mounting Type:	Vertical
Roof Fixing Method:	Clamping to Seam
Construction Material Detail:	6060 - 6063 - 6005 Aluminum

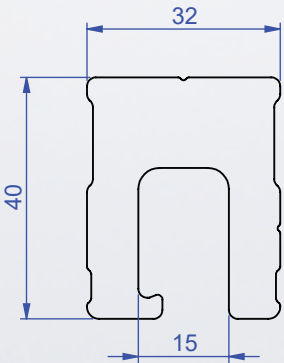
Relevant System Components



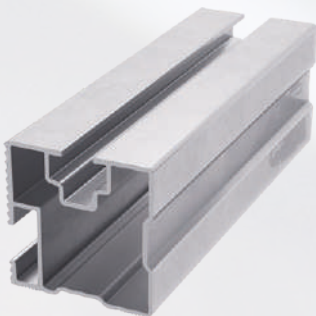
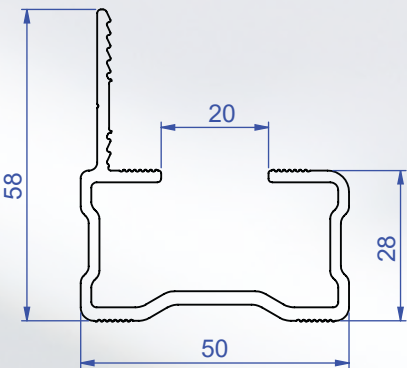
Tile Roof System Component Details



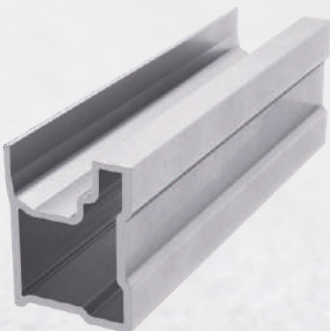
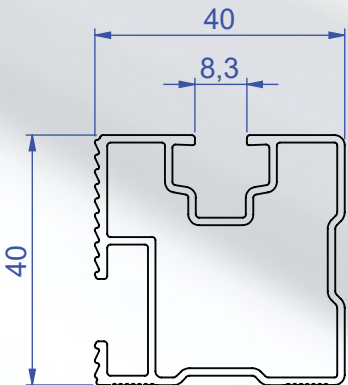
Standing Seam Roof
Hook
CW-02-0013



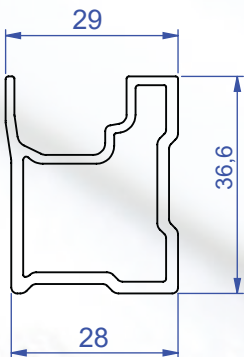
Standing Seam Roof
Profile
CW-02-0060

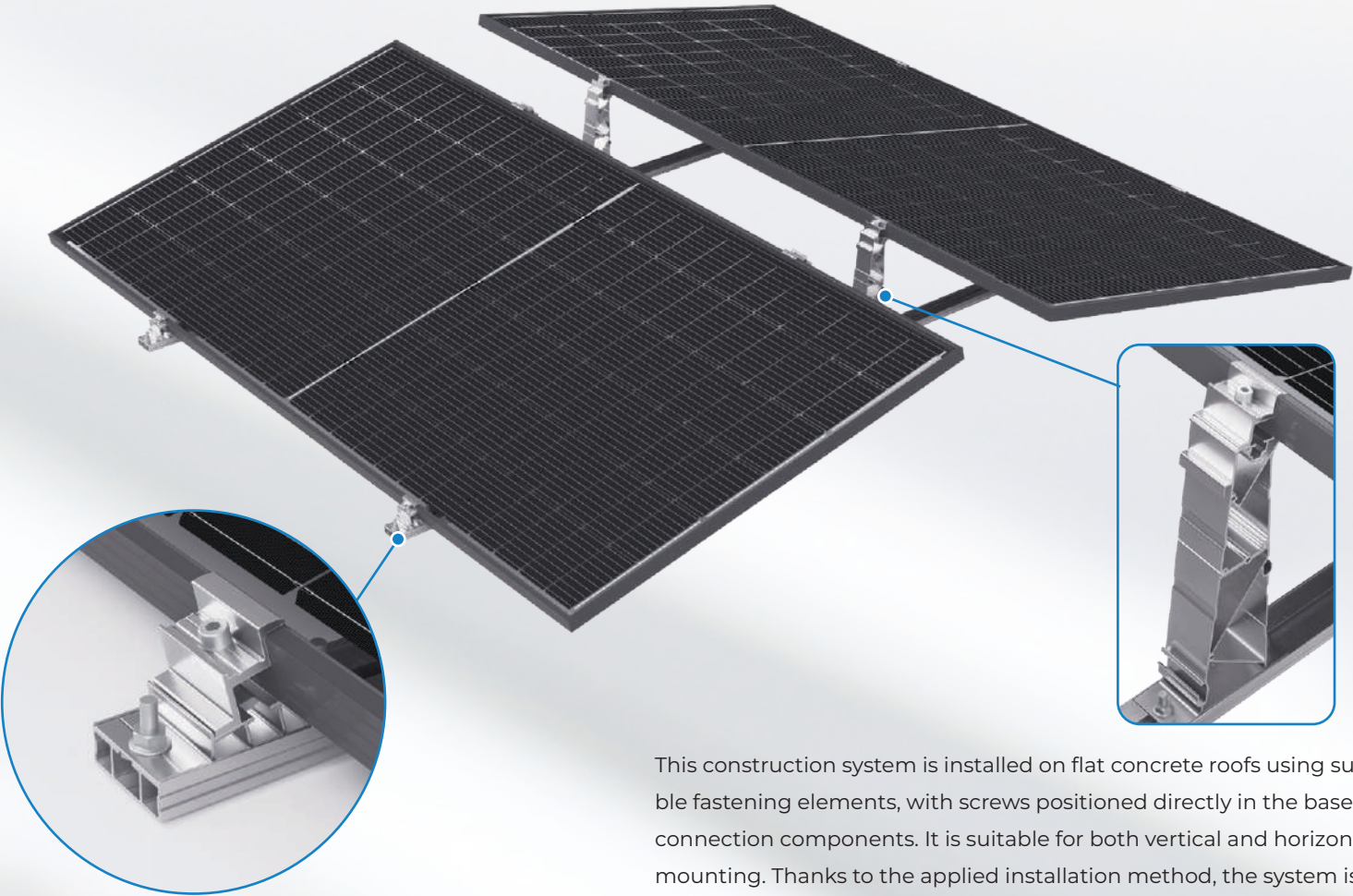


Tile and Standing Seam
Roof Profile
40 mm
CW-02-0061



Tile and Standing Seam
Roof Intermediate Profile
40 mm
CW-02-0062





This construction system is installed on flat concrete roofs using suitable fastening elements, with screws positioned directly in the base connection components. It is suitable for both vertical and horizontal mounting. Thanks to the applied installation method, the system is securely and safely fixed to the concrete surface. Designed through structural calculations, it provides a lightweight and robust structure resistant to wind, snow, and seismic loads. The installation utilizes full-length or stand-compatible cut profiles, lower and upper base profiles, clamp sets, and fastening elements suitable for concrete surfaces. It is delivered as a complete set.

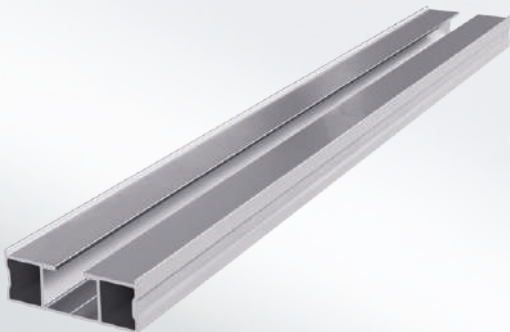
Technical Data Details

Height:	H: 13° Angle
Length:	Full-Length and Cut-Length Profile
Application Areas:	Flat Roof Concrete Surfaces
Mounting Type:	Horizontal
Roof Fixing Method:	Fasteners Suitable for Concrete Surfaces
Construction Material Detail:	6060 - 6063 - 6005 Aluminum

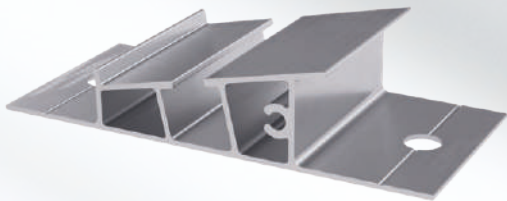
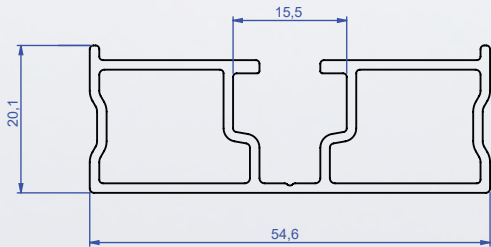
Relevant System Components



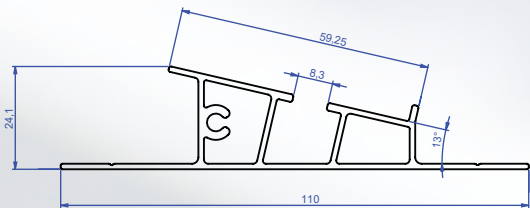
Flat Roof System Component Details



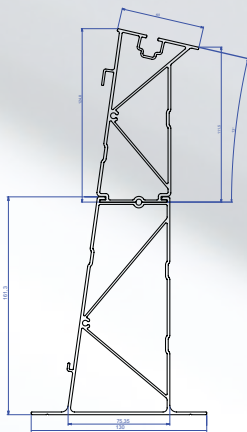
Flat Roof
Base Profile
CW-02-0302



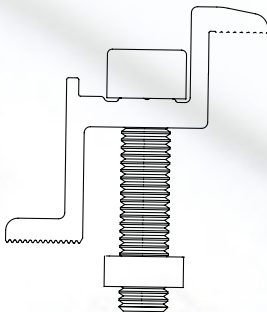
Clamp
Lower Base Profile
CW-02-0303

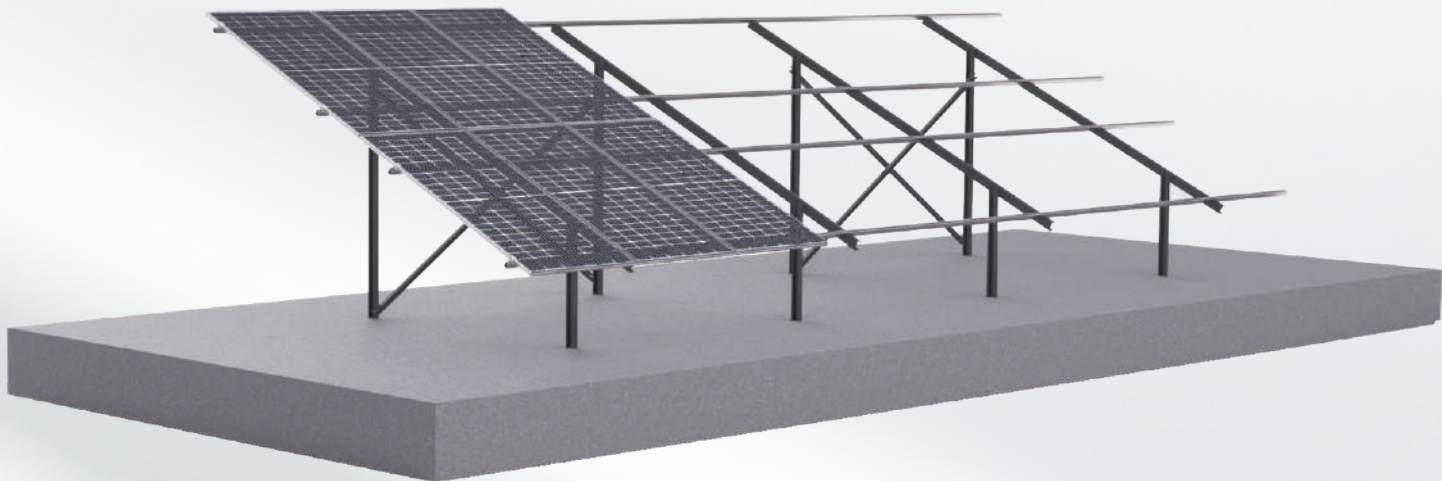


Clamp Upper Base Profile
13° Set
CW-02-0304-0305-M01



Storm End Clamp Set
CW-02-0004-M01





Fast Installation

Flexible Design

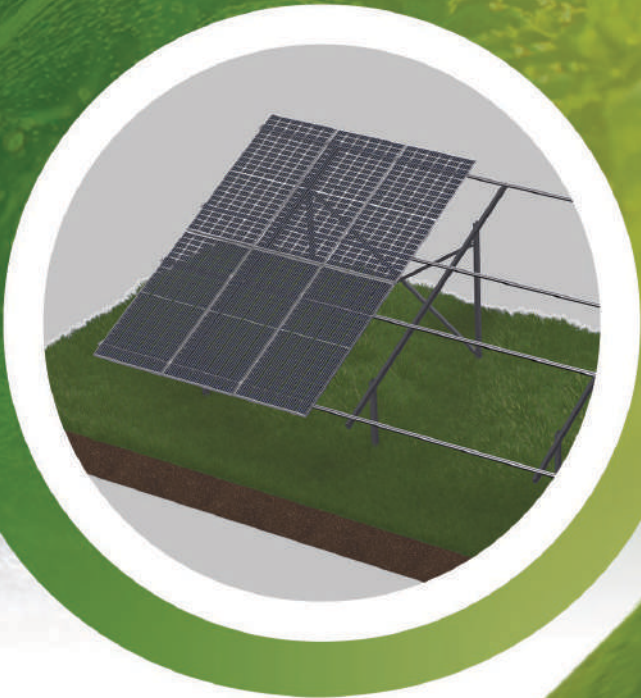
Low Material Cost

Worldwide Shipping

- Adapts to different terrain and geological conditions, is especially ideal for sloped land, and is suitable for ground-mounted solar energy systems.
 - Provides easy and fast installation and offers high adaptability to various ground conditions.
- Suitable for ground-mounted solar energy mounting systems and applications.

Ground-Mounted System Component Details

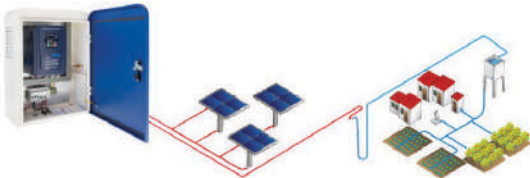
Application Method:	Driven Pile, Concrete Foundation, Concrete Pile
PV Modules:	Framed
Module Tilt:	20° veya 25°
Coating:	EN ISO 1461
Material:	Hot-Dip Galvanized Steel in accordance with EN ISO 1461 / Magnelis®
Structural:	System structural calculations comply with Eurocode. Wind tunnel optimization has been performed. FEM simulation has been applied. Where required, structural calculations can be carried out in accordance with country-specific regulations and standards.



! In applications where installation is on concrete, a **200 mm x 200 mm x 5 mm** base flange connection will be used under the columns.

Component	Cross-Section	Shape	Wall Thickness	Quality
Column	70x45x15	C	3mm	DX51
Beam	80x40x10	C	2mm	DX51
Purlin	40x40x15	C+	2mm	DX51
Brace	40x40	U	1.5mm	DX51
Connection Clamps		MC02	2mm	Al6063
Steel Connection		AKB	M10 / M8	Electro-galvanized
Clamp Connection		IMBUS	M8	A2/70

Our standard racks are designed for **2x8 panels** and can be offered with driven pile or mounted installation options



Rooftop Solar Power Plant



KAYSERİ

Ground-Mounted Solar Power Plant



ŞIRNAK

CW  ALÜMiNYUM

Yenilenebilir Enerji Teknolojileri

NOTLAR:

NOTLAR:

CW  **ALÜMiNYUM**

Yenilenebilir Enerji Teknolojileri