



SOLAR MOUNTING SYSTEMS



SOLAR MOUNTING SYSTEMS



TS EN 61537



SOLAR MOUNTING SYSTEMS

Company Profile



EAE Group in numbers;



1973

year of foundation

Founded in 1973, EAE Elektrik A.S. being the parent company of EAE Group is a worldwide manufacturer of electrical products.

Founded : in 1973
Covered Manufacturing Area : 280.000m²
Range of Products : Busbar Power Distribution Systems
Lighting Busbar Systems
Cable Tray Systems
Underfloor Trunking
Trolley Busbar Systems



280.000m²

covered manufacturing
area

Companies : EAE Elektrik
EAE Aydınlatma
EAE Elektroteknik
EAE Teknoloji
EAE Makina



5

manufacturing
plants

Number of Plants : 5



3

R&D Centers

The principles of "Lean Production" and "Innovative and Customer-Focused Product Development" are followed in design and production of product ranges in line with ISO 9001, ISO 14001, OHSAS 18001 and ISO 27001 standards.



100+

countries of export

Busbar products of EAE Elektrik A.Ş. are certified by laboratories classified under KEMA / DEKRA (the Netherlands) and KEMA - KEUR, UL classes according to IEC 61439-1 / 6 standards.

SOLAR MOUNTING SYSTEMS

Company Profile



Engineering Services

Customized solutions on project basis are designed and established by experienced EAE engineers.



Design & Software Support

Precise bills of materials for practical and fast project design special software is used. EAE design enables static calculations and calculations with SAP 2000 and INVENTOR software.



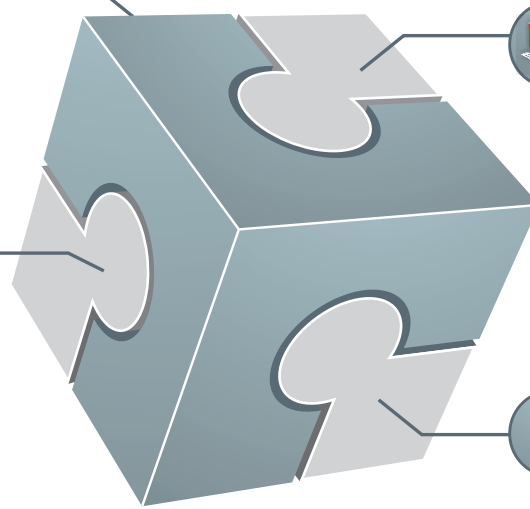
Rapid Response & Delivery Time

Factory delivery within 3 to 4 weeks is ensured with a comprehensive production capacity. Thanks to this, the urgent production team can produce any urgent requirement on the field within 48 hours.



Pre-Sales Customer Services

Free, comprehensive technical product consultancy for customer specific solutions and technical design services.



TS EN 61537



CONTENTS

GROUND APPLICATION SOLUTIONS

Piling Ground Applications.....	2
Concrete Ground Applications	3
Single Post Applications	4

PROFILES

Post Profiles / Angle Girder Profiles	5
Girder Profiles / Purlin Profiles	6
Diagonal / Transverse Profiles	7

JOINT ELEMENTS

Joint Elements	8
A2 Quality Stainless Fittings	9
Geomet Coated Fittings	9

FITTINGS

Panel Fittings	10
Panel Holders.....	10

ROOF APPLICATION SOLUTIONS

Tile Roof Applications	12-13
------------------------------	-------

FITTINGS

Panel Fittings	14
Panel Holders	14

ROOF APPLICATION SOLUTIONS

Tile Roof Applications	15
Tile Roof; BR Profile Application	16
Tile Roof; AL1 Profile Application	17
Tile Roof; AL1 - AL2 Profile Application	18
Trapezoid Roof; Binrak Profile Application.....	19
Trapezoid Roof; Aluminium Profile Application	20
Trapezoid Roof; Fast and Angle Adjusted Fittings.....	21
Trapezoid Roof; Angle Adjusted Profile Application	22
Trapezoid Roof; Binrak Profile Application.....	23
Standard Flat Roof Applications	24-27

CARPORT APPLICATION SOLUTIONS

Carport Application.....	30
--------------------------	----

REFERENCES

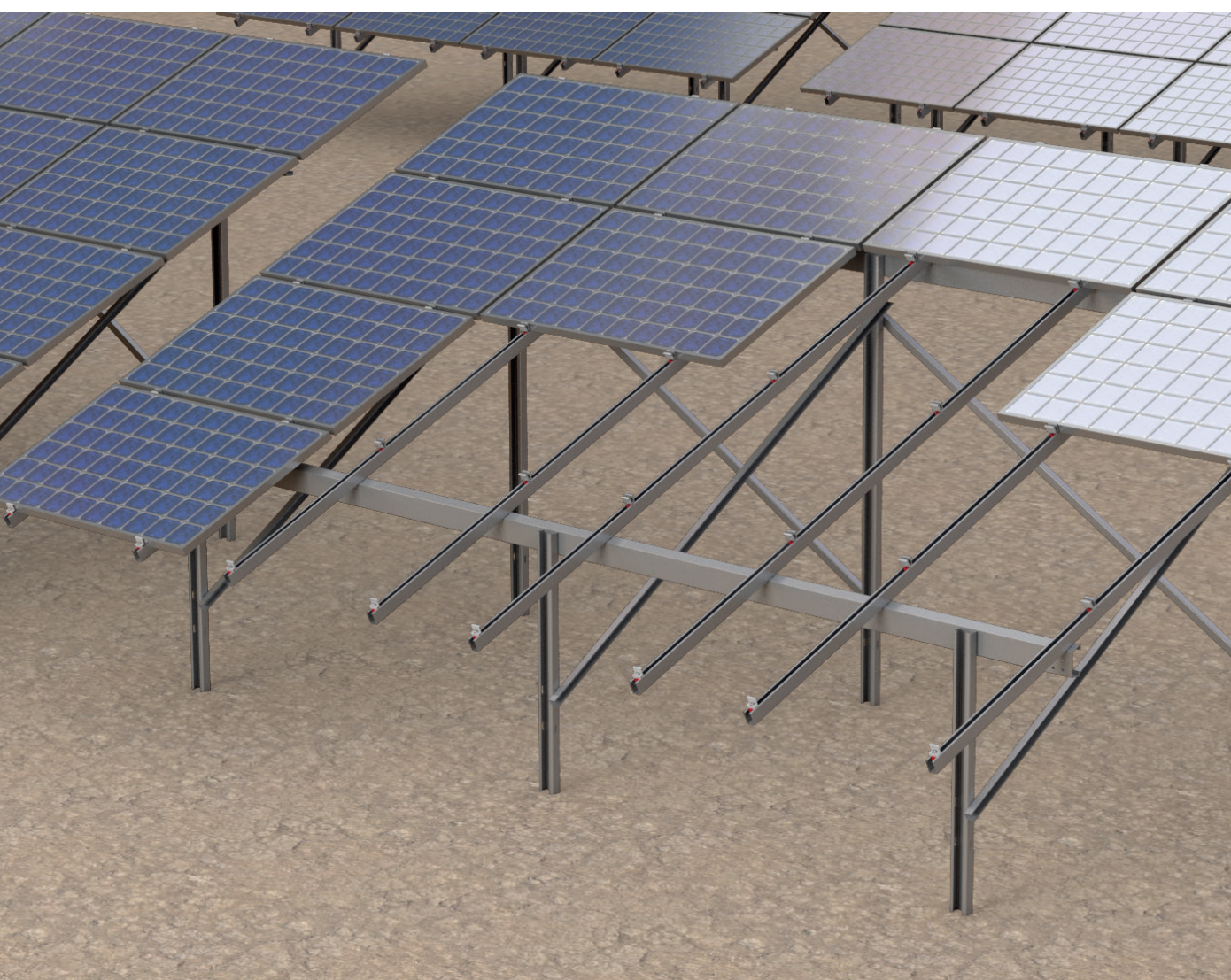
Energy References	31-32
-------------------------	-------

SOLAR MOUNTING SYSTEMS

Please visit our website for the updated version of our catalogues.
www.eaeelectric.com



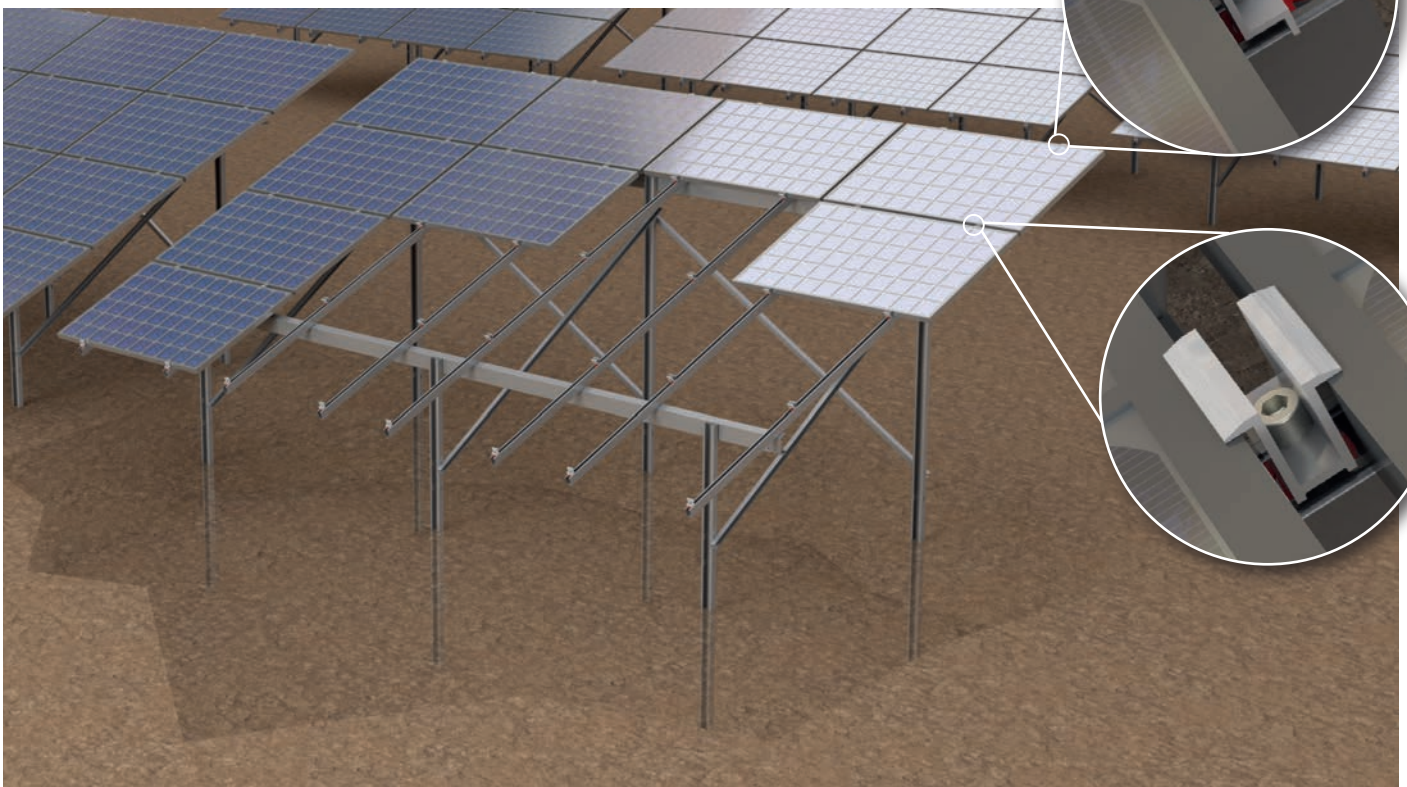
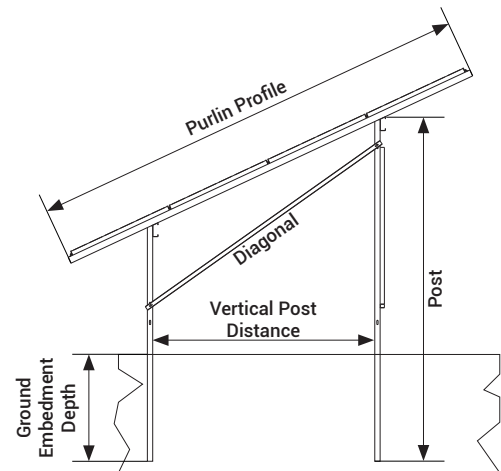
GROUND APPLICATION SOLUTIONS



►► GROUND APPLICATION SOLUTIONS

► Ramming Ground Applications

- Used for grounds convenient for ramming application.
- Embedment depth may vary according to the structure of the soil and static and dynamic loads in the project zone.
- Minimizes product deformations formed during ramming applications with the use of high-quality raw material use and precise quality controls.
- Offers fast and easy assembly advantage with state-of-the-art engineering and design. Thus, ensures serious savings on workmanship costs.

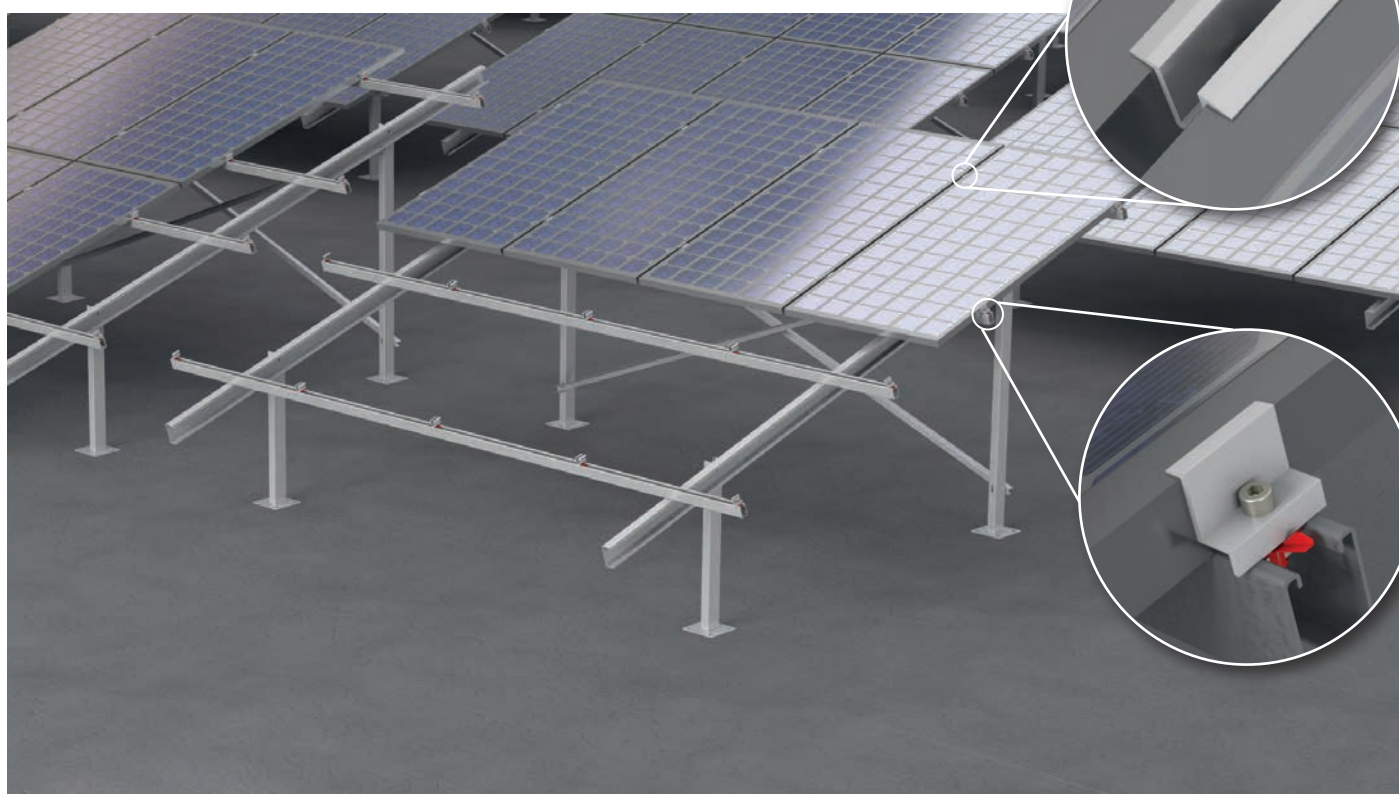
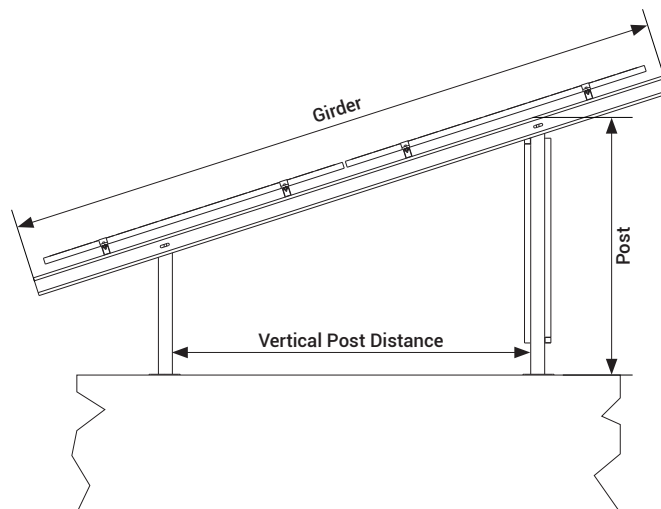


SOLAR MOUNTING SYSTEMS

►► GROUND APPLICATION SOLUTIONS

► Concrete Floor Applications

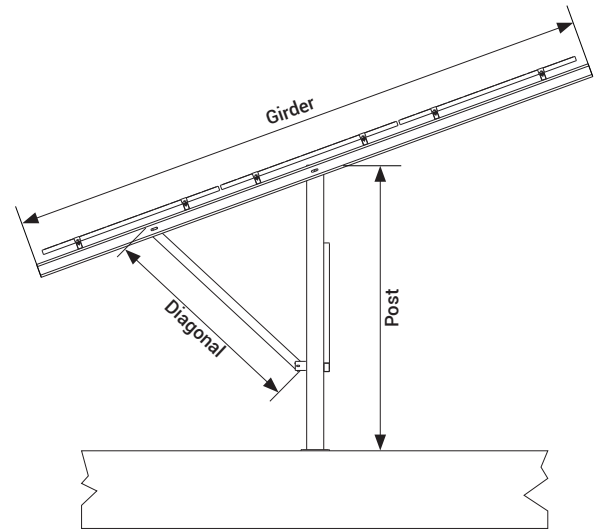
- Used for grounds that are not convenient for ramming application.
- Concrete floor measurements may vary depending on the project.
- Minimizes product deformations formed during ramming applications with the use of high-quality raw material use and precise quality controls.
- Offers fast and easy assembly advantage with state-of-the-art engineering and design. Thus, ensures serious savings on workmanship costs.



►► GROUND APPLICATION SOLUTIONS

► Single Counterfort Applications

- Used for grounds that are not convenient for ramming application.
- Concrete floor measurements may vary depending on the project.
- Minimizes product deformations formed during ramming applications with the use of high-quality raw material use and precise quality controls.
- Offers fast and easy assembly advantage with state-of-the-art engineering and design. Thus, ensures serious savings on workmanship costs.



►► PROFILES

► Post Profiles

Description	H (mm)	T (mm)	Order Code
C 080 Post (3.00 mm)	80	3	3114323
C 080 Post (4.00 mm)	80	4	
C 085 Post (3.00 mm)	85	3	3126603
C 085 Post (4.00 mm)	85	4	
C 090 Post (3.00 mm)	90	3	3114327
C 090 Post (4.00 mm)	90	4	
C 095 Post (3.00 mm)	95	3	3126604
C 095 Post (4.00 mm)	95	4	
C 100 Post (3.00 mm)	100	3	3114331
C 100 Post (4.00 mm)	100	4	
C 110 Post (3.00 mm)	110	3	3126605
C 110 Post (4.00 mm)	110	4	
C 120 Post (3.00 mm)	120	3	3114335
C 120 Post (4.00 mm)	120	4	
C 140 Post (3.00 mm)	140	3	3114339
C 140 Post (4.00 mm)	140	4	
C 150 Post (3.00 mm)	150	3	3114315
C 150 Post (4.00 mm)	150	4	



► Angle Girder Profiles

Description	H (mm)	T (mm)	Order Code
C 080 ANGLE GIRDER (2.00 mm)	80	2	3125440
C 080 ANGLE GIRDER (2.50 mm)	80	2,5	
C 080 ANGLE GIRDER (3.00 mm)	80	3	
C 090 ANGLE GIRDER (2.00 mm)	90	2	3125441
C 090 ANGLE GIRDER (2.50 mm)	90	2,5	
C 090 ANGLE GIRDER (3.00 mm)	90	3	
C 100 ANGLE GIRDER (2.00 mm)	100	2	3125442
C 100 ANGLE GIRDER (2.50 mm)	100	2,5	
C 100 ANGLE GIRDER (3.00 mm)	100	3	
C 110 ANGLE GIRDER (2.00 mm)	110	2	3192994
C 110 ANGLE GIRDER (2.50 mm)	110	2,5	
C 110 ANGLE GIRDER (3.00 mm)	100	3	
C 120 ANGLE GIRDER (2.00 mm)	120	2	3125443
C 120 ANGLE GIRDER (2.50 mm)	120	2,5	
C 120 ANGLE GIRDER (3.00 mm)	120	3	



►► PROFILES

► Girder Profiles

Description	H (mm)	T (mm)	Order Code
C 060 Girder (2.00 mm)	60	2	3126579
C 060 Girder (2.50 mm)	60	2,5	
C 060 Girder (3.00 mm)	60	3	
C 070 Girder(2.00 mm)	70	2	3126584
C 070 Girder (2.50 mm)	70	2,5	
C 070 Girder (3.00 mm)	70	3	
C 080 Girder (2.00 mm)	80	2	3126580
C 080 Girder (2.50 mm)	80	2,5	
C 080 Girder (3.00 mm)	80	3	
C 090 Girder (2.00 mm)	90	2	3126581
C 090 Girder (2.50 mm)	90	2,5	
C 090 Girder (3.00 mm)	90	3	
C 100 Girder (2.00 mm)	100	2	3126582
C 100 Girder (2.50 mm)	100	2,5	
C 100 Girder (3.00 mm)	100	3	
C 110 Girder (2.00 mm)	110	2	3126585
C 110 Girder (2.50 mm)	110	2,5	
C 110 Girder (3.00 mm)	110	3	
C 120 Girder (2.00 mm)	120	2	3126583
C 120 Girder (2.50 mm)	120	2,5	
C 120 Girder (3.00 mm)	120	3	



► Purlin Profiles

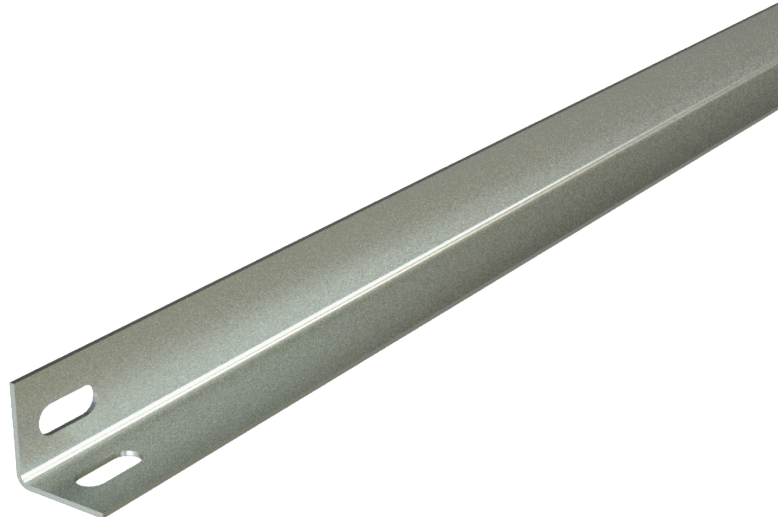
Description	H (mm)	T (mm)	Order Code
SP BR 453 (41x41x2.00 mm)	41	2	3122966
SP BR 463 (41x41x2.50 mm)	41	2,5	3122967
SP BR 653 (61x41x2.00 mm)	61	2	3176695
SP BR 663 (61x41x2.50 mm)	61	2,5	3176696



►► PROFILES

► Diagonal / Transverse Profiles

Description	H (mm)	T (mm)	Order Code
L 040 PROFILE (2.00 mm)	40	2	3111071
L 040 PROFILE (2.50 mm)	40	2,5	
L 040 PROFILE (3.00 mm)	40	3	
L 040 PROFILE (4.00 mm)	40	4	
L 050 PROFILE (2.00 mm)	50	2	3111074
L 050 PROFILE (2.50 mm)	50	2,5	
L 050 PROFILE (3.00 mm)	50	3	
L 050 PROFILE (4.00 mm)	50	4	



► Diagonal / Transverse Profiles

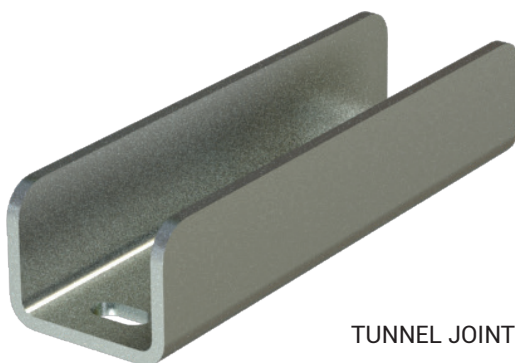
Description	H (mm)	T (mm)	Order Code
SP U PROFILE (40X40X2.00 mm)	40	2	3177158
SP U PROFILE (40X40X2.50 mm)	40	2,5	3177159



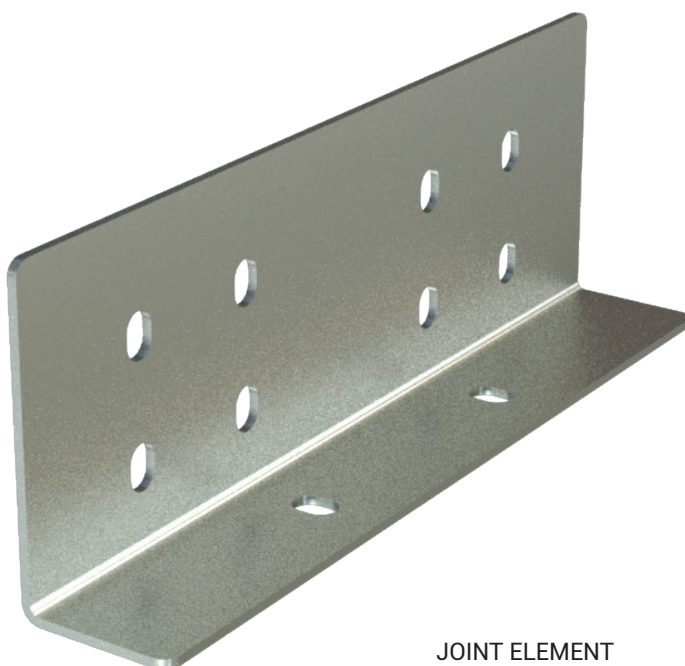
►► JOINT ELEMENTS

► JOINT ELEMENTS

Description	H (mm)	T (mm)	Order Code
SP TUNNEL (U) (4x180mm) ST37	40	4	3177160
C060 KIR.L JOINT ELEMENT (3x300mm)	60	3	3164822
C070 KIR.L JOINT ELEMENT (3x300mm)	70	3	3177111
C080 KIR.L JOINT ELEMENT (3x300mm)	80	3	3177113
C090 KIR.L JOINT ELEMENT (3x300mm)	90	3	3177114
C100 KIR.L JOINT ELEMENT (3x300mm)	100	3	3177115
C110 KIR.L JOINT ELEMENT (3x300mm)	110	3	3177116
C120 KIR.L JOINT ELEMENT (3x300mm)	120	3	3177151



TUNNEL JOINT ELEMENT



JOINT ELEMENT

►► JOINT ELEMENTS

► Fittings

Description	Stainless Order Code	Geomet Order Code	Zinc Nickel Order Code
M14*30 AKB BOLT	1019656	1023948	1028544
M14*30 FLANGE BOLT	1019657	1023949	1028545
M14 AKB NUT	1019658	1023950	1028546
M14 FLANGED NUT	1019659	1023951	1028547
M14 SPRING WASHER	1019660	1023952	1028549
M14 PLAIN WASHER	1019661	1023953	1028550
M12**30 30 AKB BOLT	1013996	1023954	1028551
M12 AKB NUT	1003440	1023955	1028552
M12 PLAIN WASHER	1019662	1023956	1028553
M12 SPRING WASHER	1014013	1023957	1028554
M10*25 IMBUS BOLT	1019663	1023958	1028555
M12*25 IMBUS BOLT	1019697	1023959	1028556
M10*30 IMBUS BOLT	1026854	1026857	1028585
M10*25 AKB BOLT	1019664	1023960	1028557
M10*30 AKB BOLT	1003442	1023961	1028558
M10 AKB NUT	1003441	1023962	1028559
M10 BIG STAMP	1019665	1023963	1028560
M10 PLAIN WASHER	1019666	1023964	1028561
M10 SPRING WASHER	1014012	1023965	1028562
M8*40 IMBUS BOLT	1019667	1023966	1028563
M8*30 IMBUS BOLT	1019668	1023967	1028564
M8 QUICK BINRAK NUT	1021245		



AKB BOLT



FLANGE BOLT



NUT



FLANGE BOLT



IMBUS BOLT



PLAIN WASHER



WASHER



QUICK BINRAK NUT

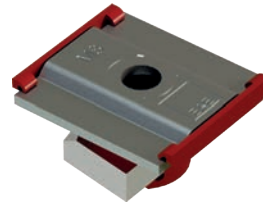
►► Fittings

► Panel Fittings

Description	Order Code
M8 QUICK BINRAK NUT	1021245
M8 QUICK TRAVERSE NUT	1004993



QUICK BINRAK NUT



QUICK TRAVERSE NUT

► Panel Holders

Description	Order Code
ALUMINYUM EXTERNAL PANEL HOLDER (For 30)	1024966
ALUMINYUM EXTERNAL PANEL HOLDER (For 35)	1024967
ALUMINYUM EXTERNAL PANEL HOLDER (For 40)	1024968
ALUMINYUM EXTERNAL PANEL HOLDER (For 45)	1024969
ALUMINYUM Medium PANEL HOLDER (For 30)	1024970
ALUMINYUM Medium PANEL HOLDER (For 35)	1024971
ALUMINYUM Medium PANEL HOLDER (For 40)	1024972
ALUMINYUM Medium PANEL HOLDER (For 45)	1024973



ALUM. EXTERNAL PANEL HOLDER



ALUM. Medium PANEL HOLDER

Description	Order Code
EXTERNAL WINDOW PANEL HOLDER (6,8 mm)	1024974
MEDIUM WINDOW PANEL HOLDER (6,8 mm)	1024939



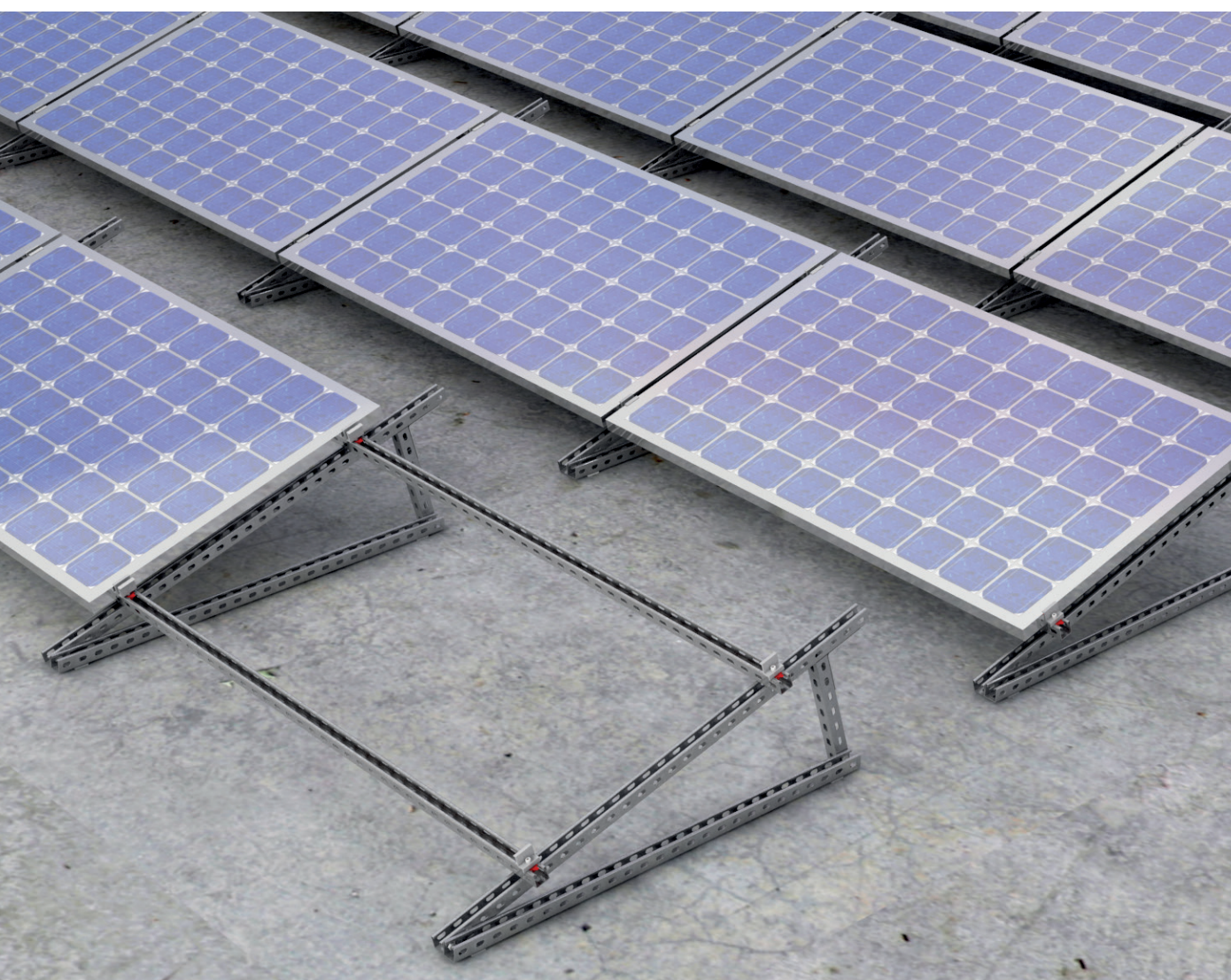
EXTERNAL WINDOW PANEL HOLDER



MEDIUM WINDOW PANEL HOLDER



ROOF APPLICATION SOLUTIONS

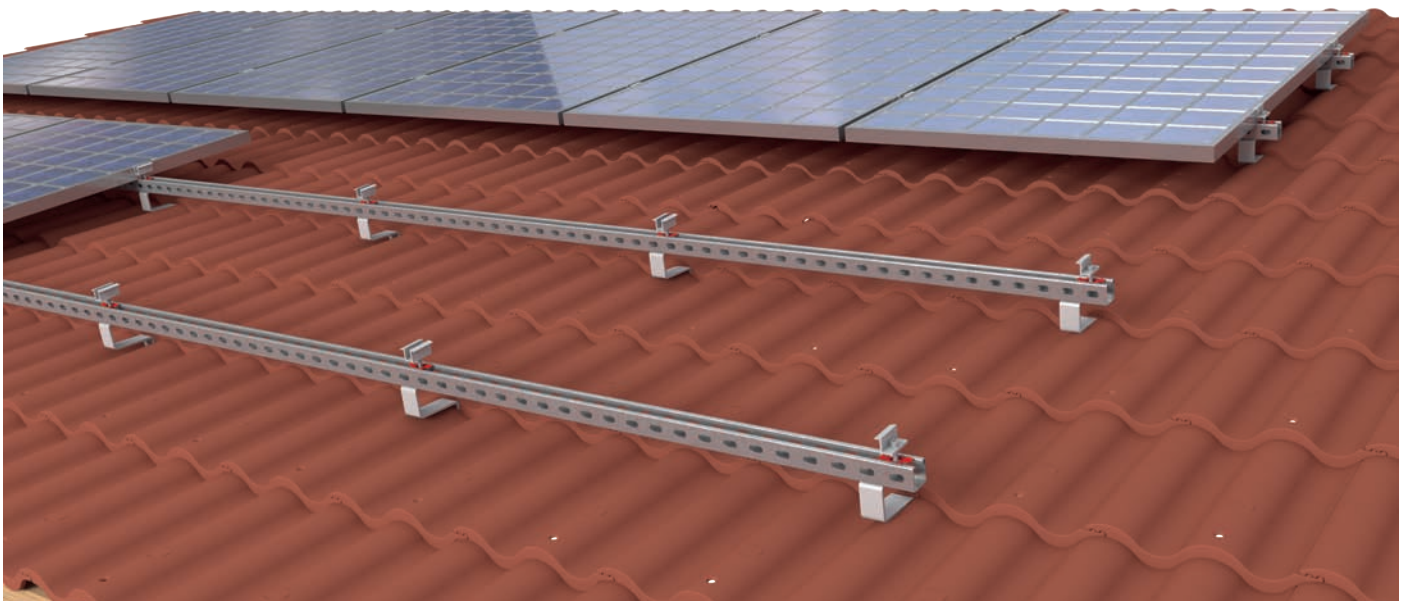
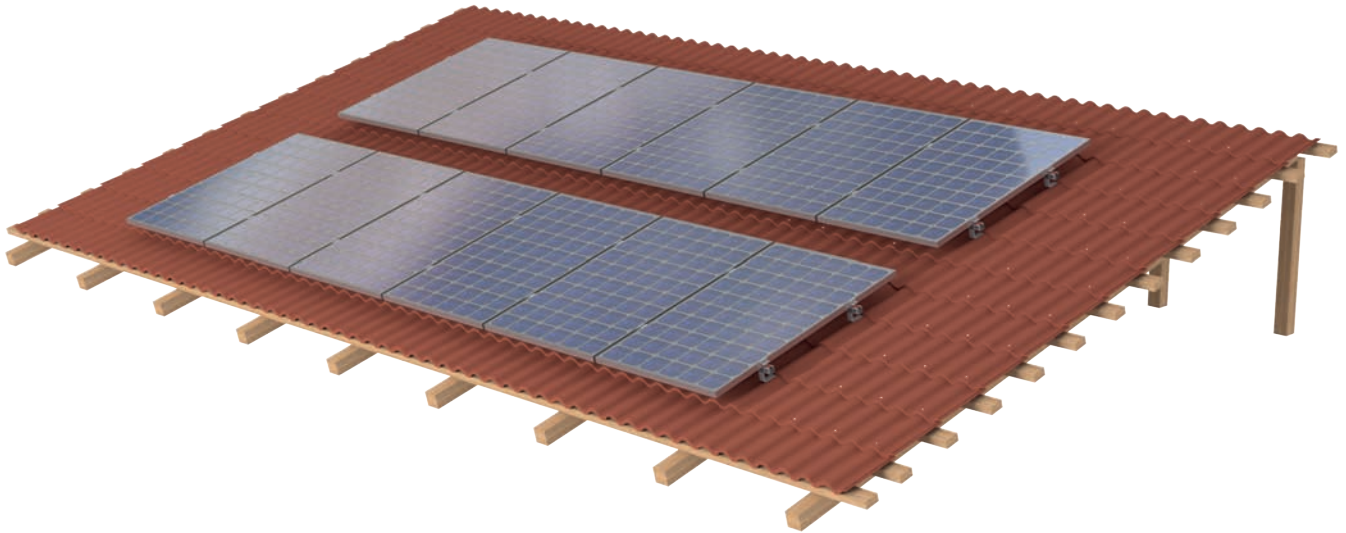


SOLAR MOUNTING SYSTEMS



►► ROOF APPLICATION SOLUTIONS

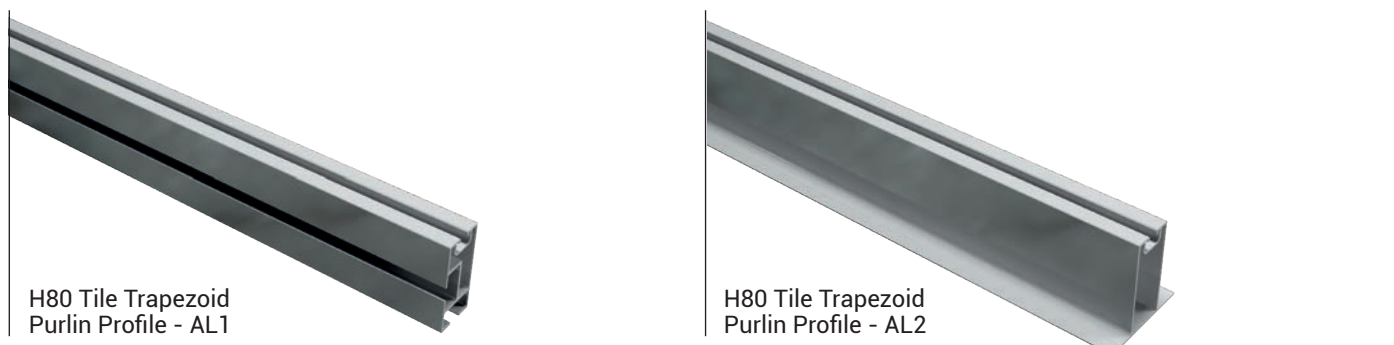
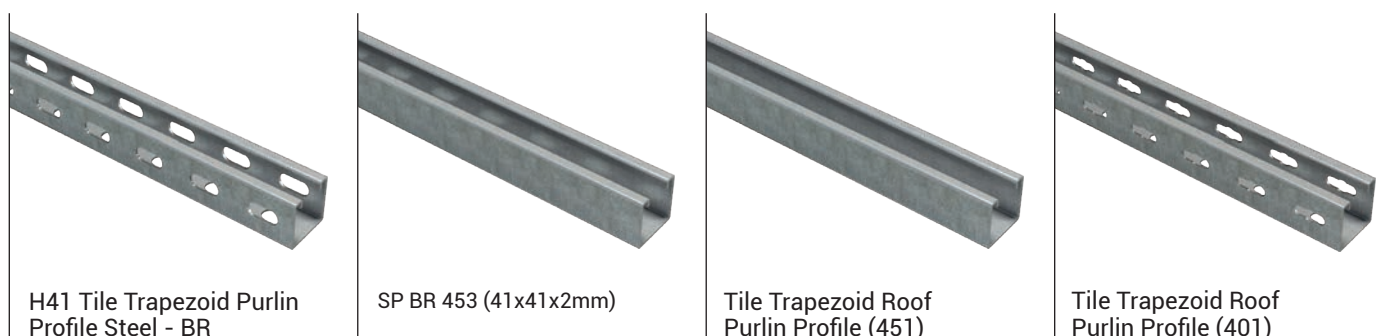
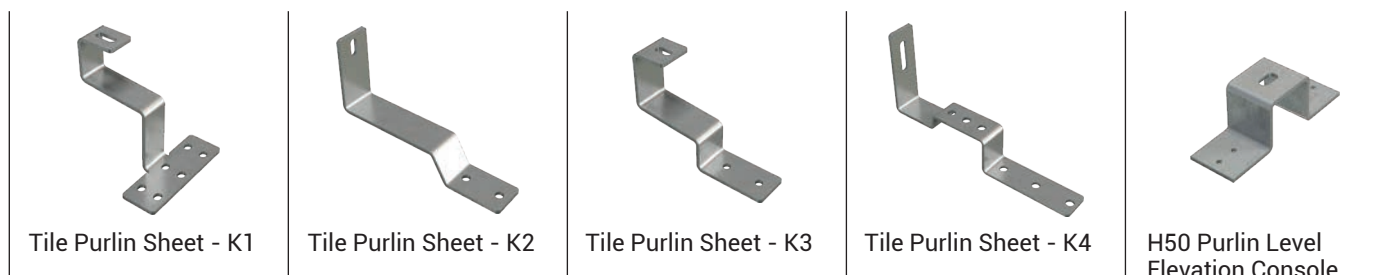
► Tile Roof Applications



►► ROOF APPLICATION SOLUTIONS

► Tile Roof Applications

TILE ROOF and TRAPEZOID ROOF SOLAR PRODUCTS		
Description	Weight (kg)	Order Code
Tile Purlin Sheet - K1	0,796	3188587
Tile Purlin Sheet - K2	0,793	3188589
Tile Purlin Sheet - K3	0,757	3188590
Tile Purlin Sheet - K4	0,590	3188591
H50 Purlin Level Elevation Console	0,426	3188593
H41 Tile Trapezoid Purlin Profile Steel - BR	2,130	3215845
SP BR 453 (41x41x2mm)	2,334	3122966
Tile Trapezoid Roof Purlin Profile (451)	2,435	3188593
Tile Trapezoid Roof Purlin Profile (401)	2,130	3215846
H80 Tile Trapezoid Purlin Profile - AL1	1,350	1026843
H80 Tile Trapezoid Purlin Profile - AL2	1,260	1026844



►► Panel Fittings

► Panel Holders

Description	Order Code
M8 QUICK BINRAK NUT	1021245
M8 QUICK TRAVERSE NUT	1004993



QUICK BINRAK NUT



QUICK TRAVERSE NUT

► Roof Application Solutions

Description	Order Code
ALUMINIUM EXTERNAL PANEL HOLDER (For 30)	1024966
ALUMINIUM EXTERNAL PANEL HOLDER (For 35)	1024967
ALUMINIUM EXTERNAL PANEL HOLDER (For 40)	1024968
ALUMINIUM EXTERNAL PANEL HOLDER (For 45)	1024969
ALUMINIUM MEDIUM PANEL HOLDER (For 30)	1024970
ALUMINIUM MEDIUM PANEL HOLDER (For 35)	1024971
ALUMINIUM MEDIUM PANEL HOLDER (For 40)	1024972
ALUMINIUM MEDIUM PANEL HOLDER (For 45)	1024973



ALUM. EXTERNAL PANEL HOLDER



ALUM. Medium PANEL HOLDER



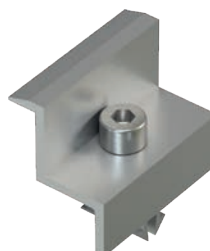
EXTERNAL WINDOW PANEL HOLDER



MEDIUM WINDOW PANEL HOLDER

Description	Order Code
EXTERNAL WINDOW PANEL HOLDER (6,8 mm)	1024974
MEDIUM WINDOW PANEL HOLDER (6,8 mm)	1024939

Description	Order Code
ALUMINIUM EXTERNAL PANEL HOLDER CLIPS (For 30) (set)	3210418
ALUMINIUM EXTERNAL PANEL HOLDER CLIPS (For 35) (set)	3210419
ALUMINIUM EXTERNAL PANEL HOLDER CLIPS (For 40) (set)	3210420
ALUMINIUM EXTERNAL PANEL HOLDER CLIPS (For 45) (set)	3210421
ALUMINIUM MEDIUM PANEL HOLDER CLIPS (For 30) (set)	3210422
ALUMINIUM MEDIUM PANEL HOLDER CLIPS (For 35) (set)	3210423
ALUMINIUM MEDIUM PANEL HOLDER CLIPS (For 40) (set)	3210424
ALUMINIUM MEDIUM PANEL HOLDER CLIPS (For 45) (set)	3210425



ALUM. EXTERNAL PANEL HOLDER



ALUM. MEDIUM PANEL HOLDER

Description	Order Code
TRAPEZOID SCREW M6* 25 GEOMET	1024938
M10*30 AKB BOLT GEOMET	1023961
M10 AKB NUT GEOMET	1023962
M8*40 IMBUS BOLT GEOMET	1023966
M8*30 IMBUS BOLT GEOMET	1023967
M6*25 TRAPEZOID SCREW A2 STAINLESS	1026994
M10*30 AKB BOLT A2 STAINLESS	1003442
M10 AKB NUT A2 STAINLESS	1003441
M8*40 IMBUS BOLT A2 STAINLESS	1019667
M8*30 IMBUS BOLT A2 STAINLESS	1019668



AKB BOLT



TRAPEZOID SCREW

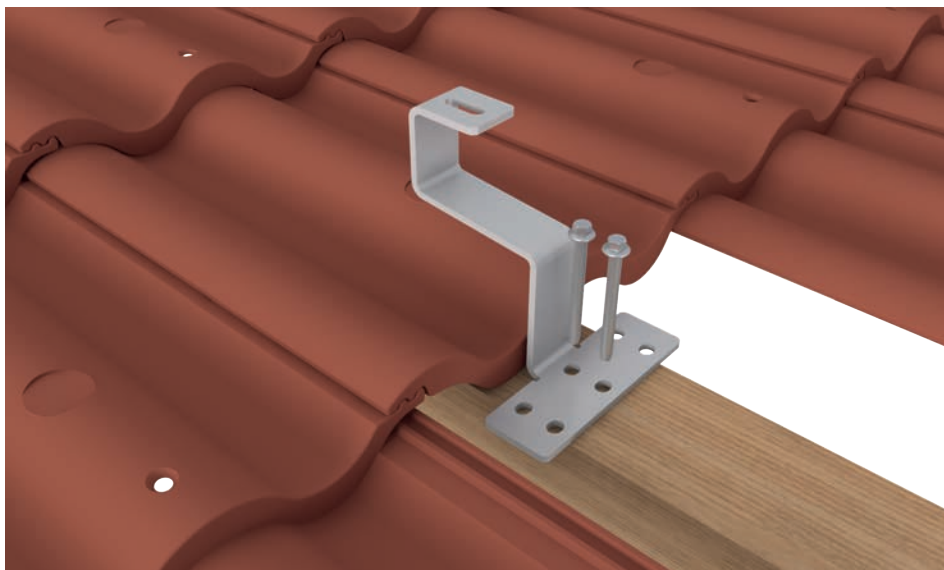


IMBUS BOLT

SOLAR MOUNTING SYSTEMS

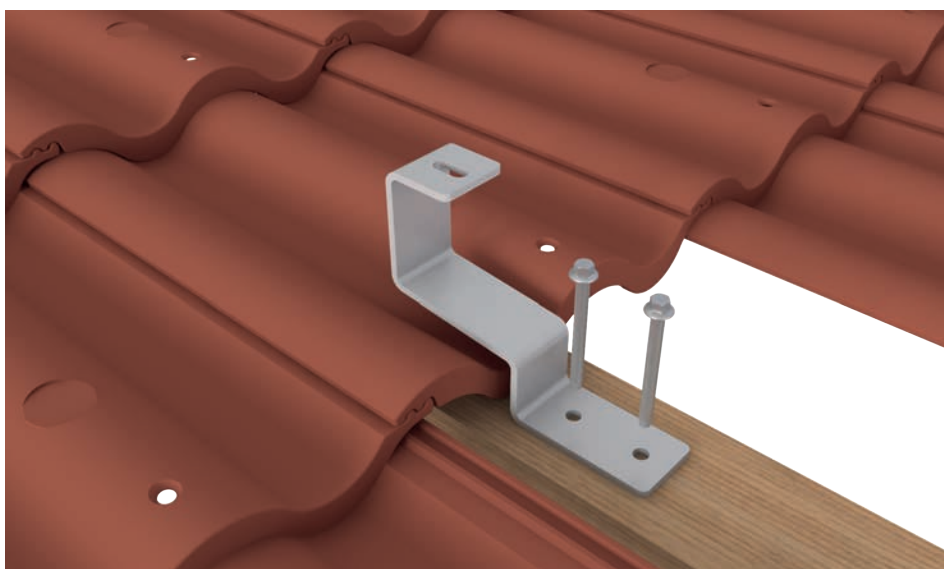
► ROOF APPLICATION SOLUTIONS

► Fittings



K1 Mounting:

K2 Mounting:



K3 Mounting:

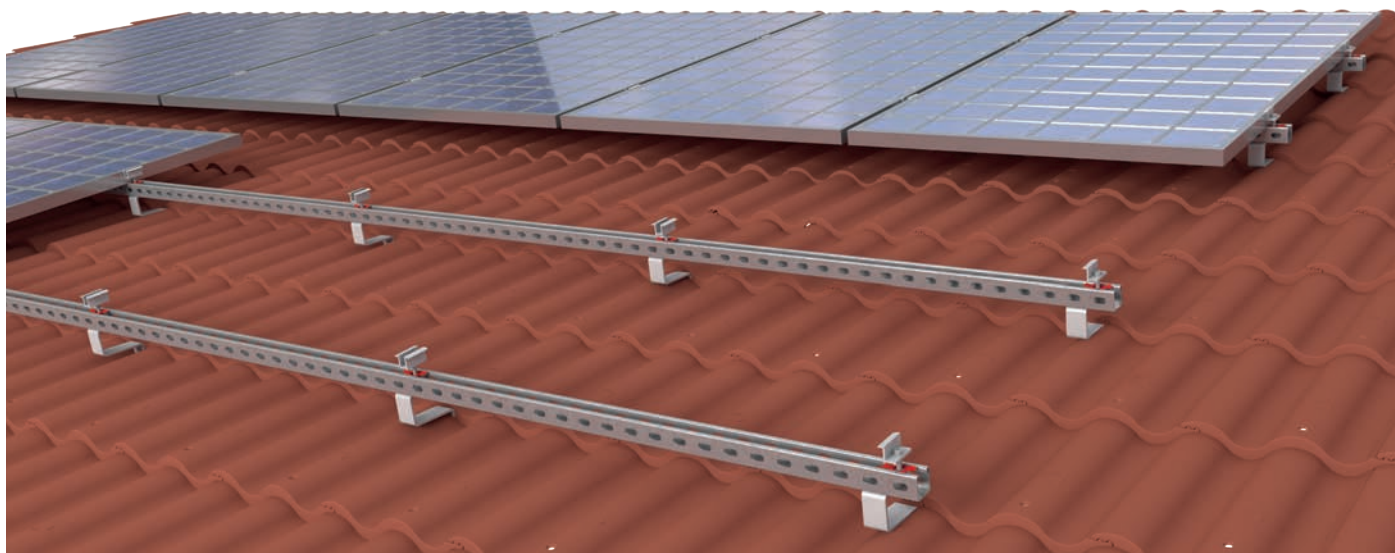
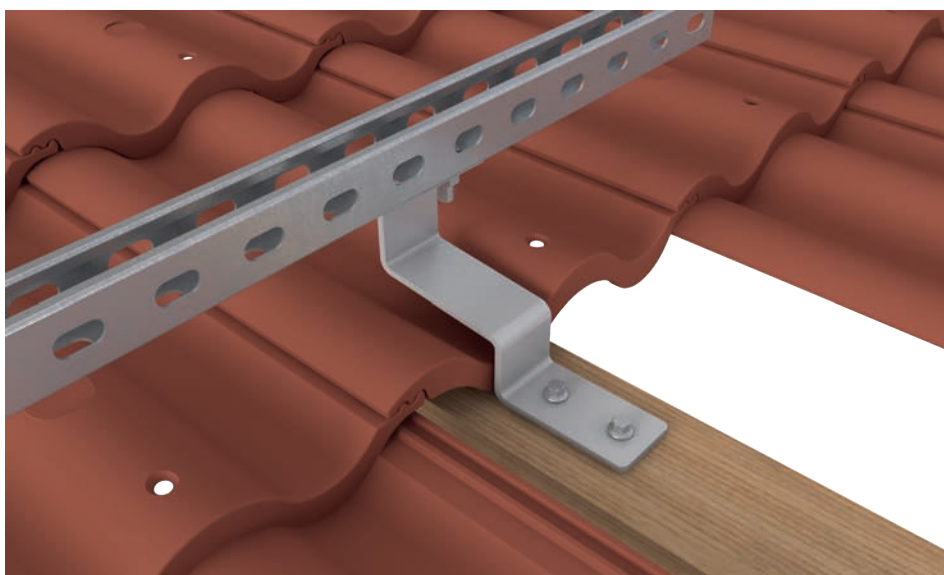
►► ROOF APPLICATION SOLUTIONS

► Panel Fittings



K2 - BR Mounting:

K3 - BR Mounting:



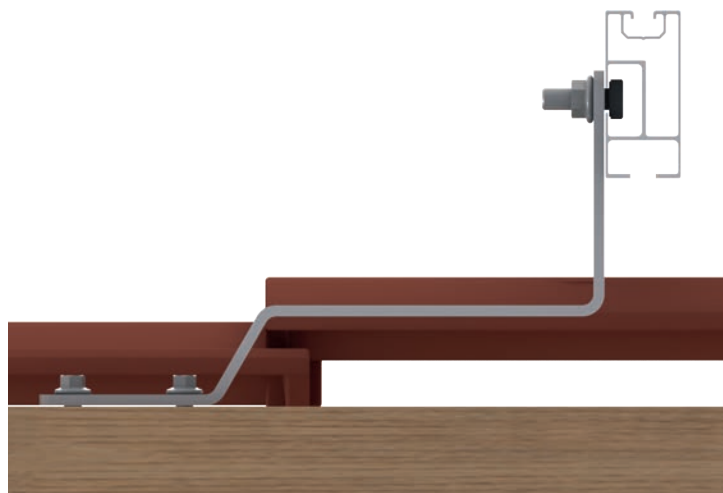
SOLAR MOUNTING SYSTEMS

►► ROOF APPLICATION SOLUTIONS

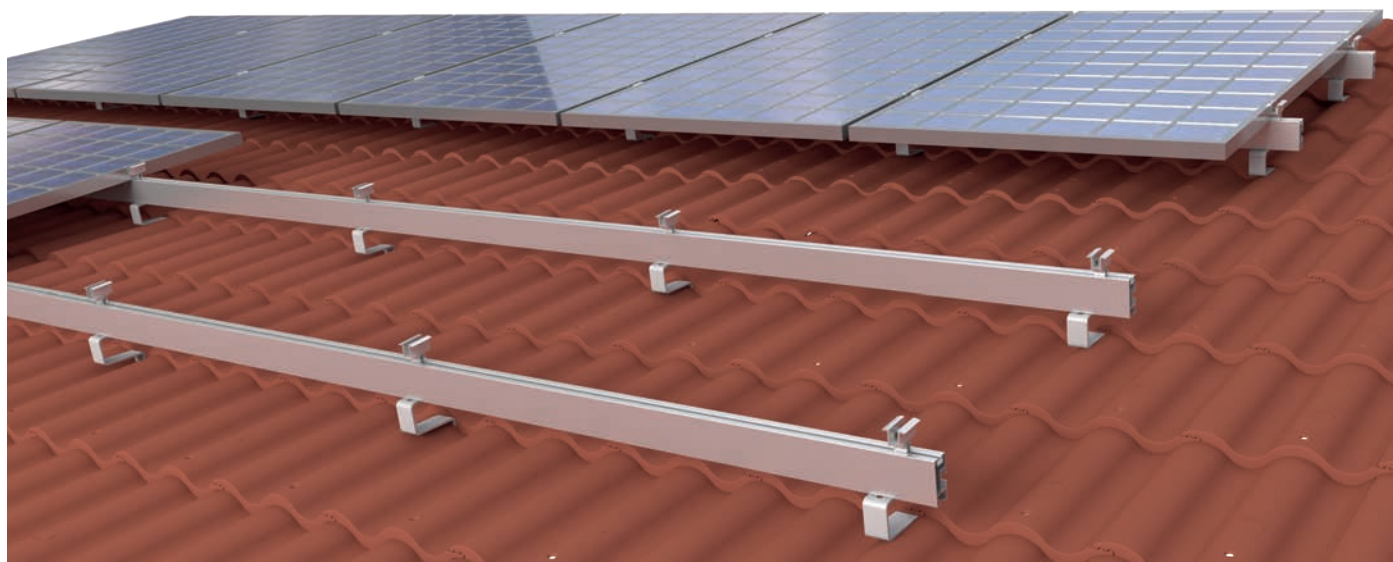
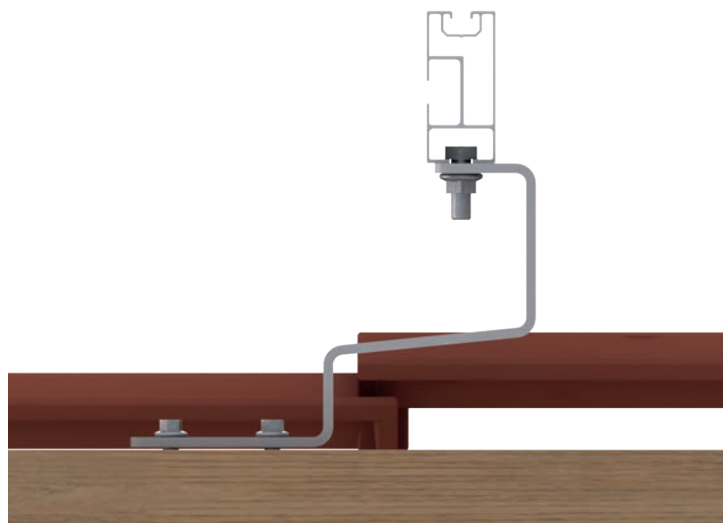
► Panel Holders



K2 - AL1 Mounting:

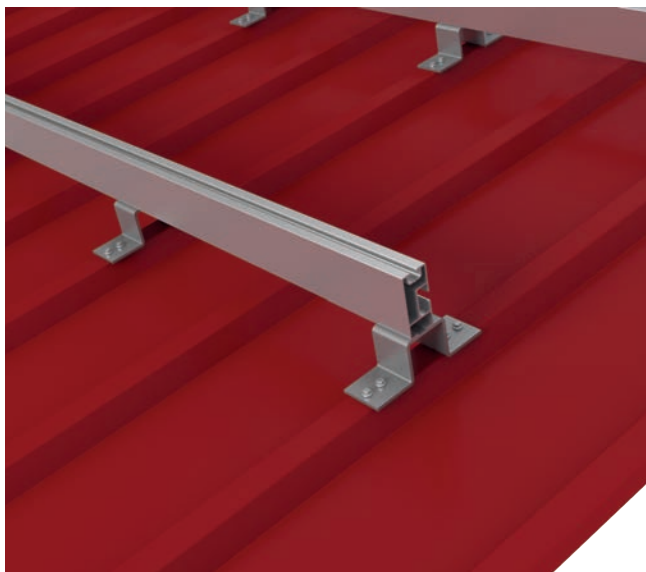


K3 - AL1 Mounting:

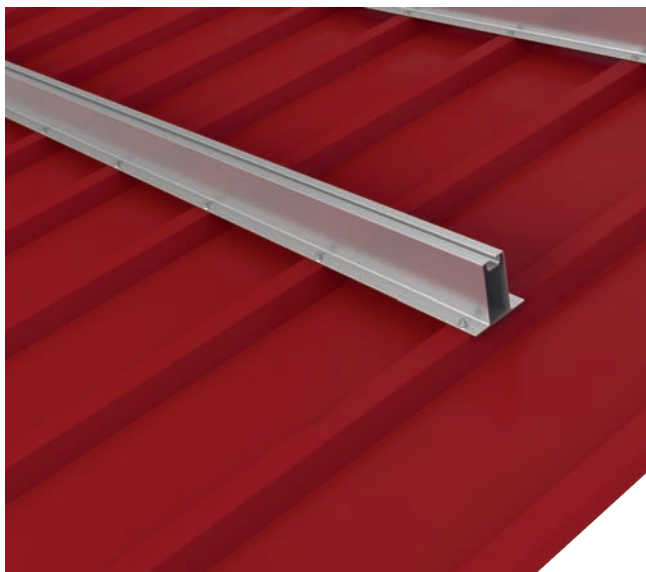
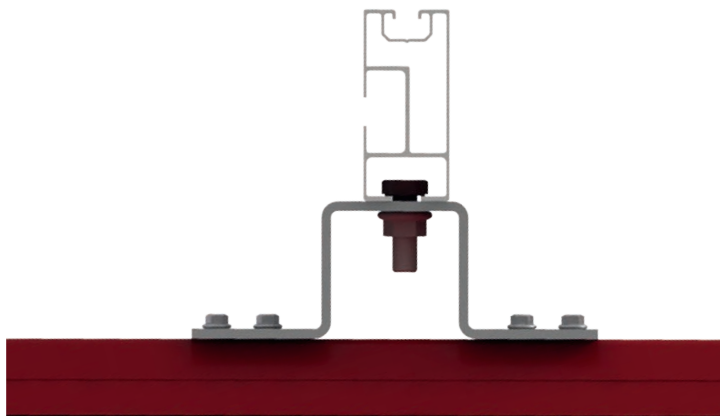


►► ROOF APPLICATION SOLUTIONS

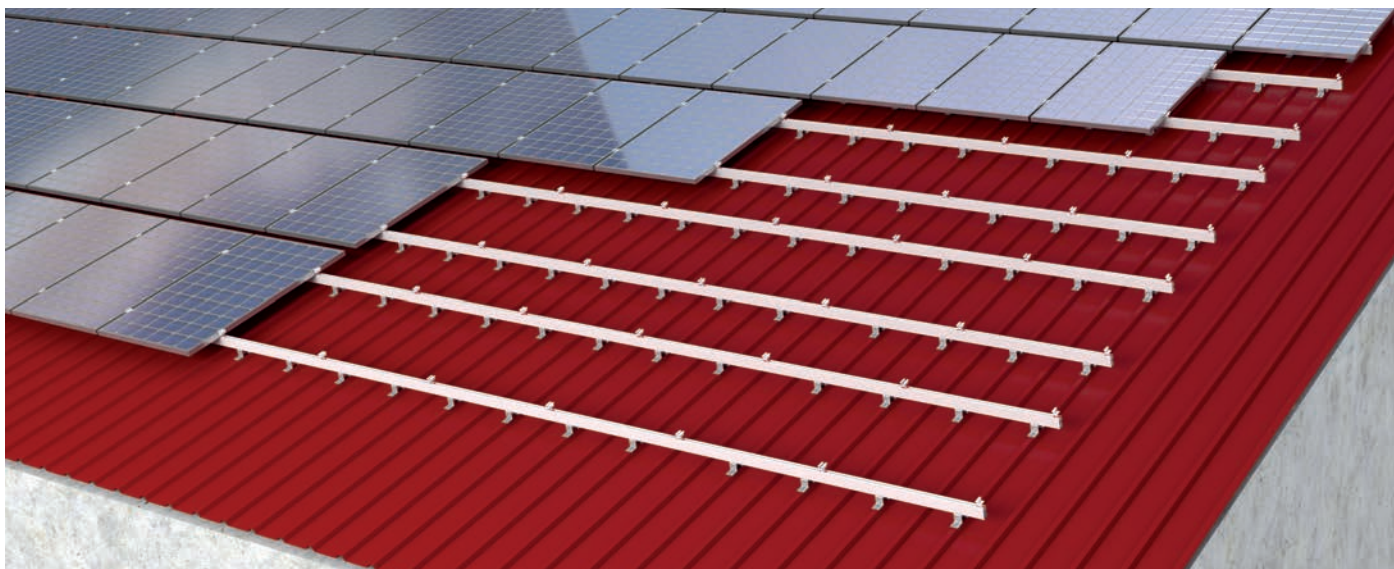
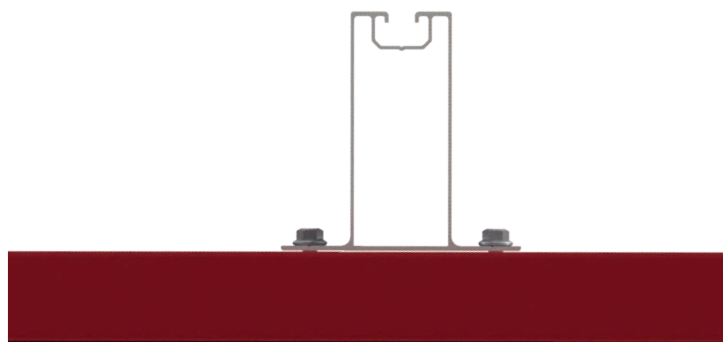
► Tile Roof; AL1 - AL2 Profile Application



AL1 Mounting:



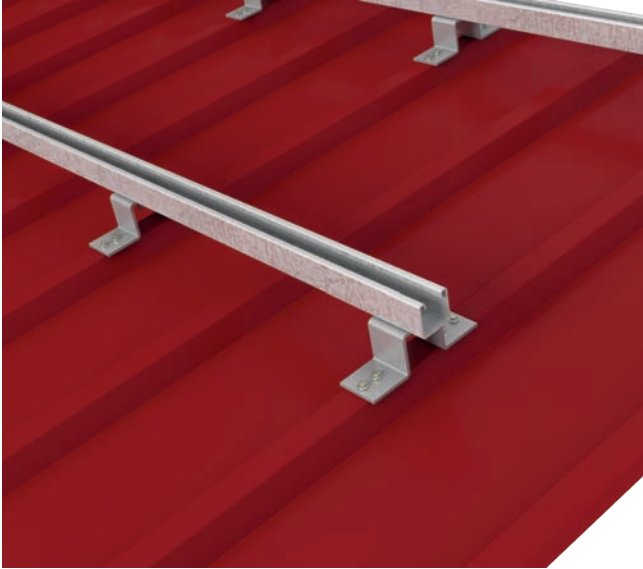
AL2 Mounting:



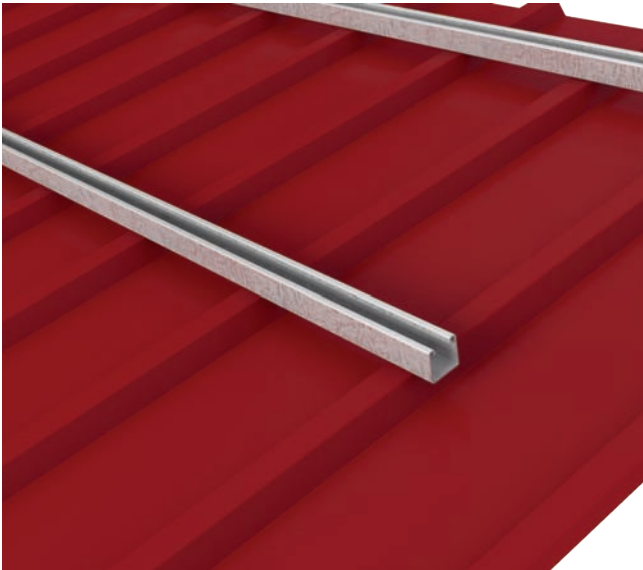
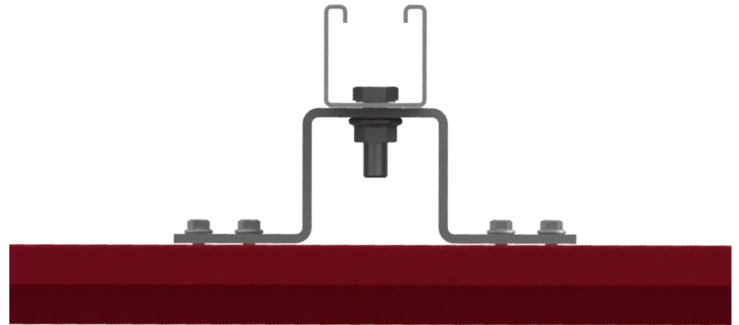
SOLAR MOUNTING SYSTEMS

►► ROOF APPLICATION SOLUTIONS

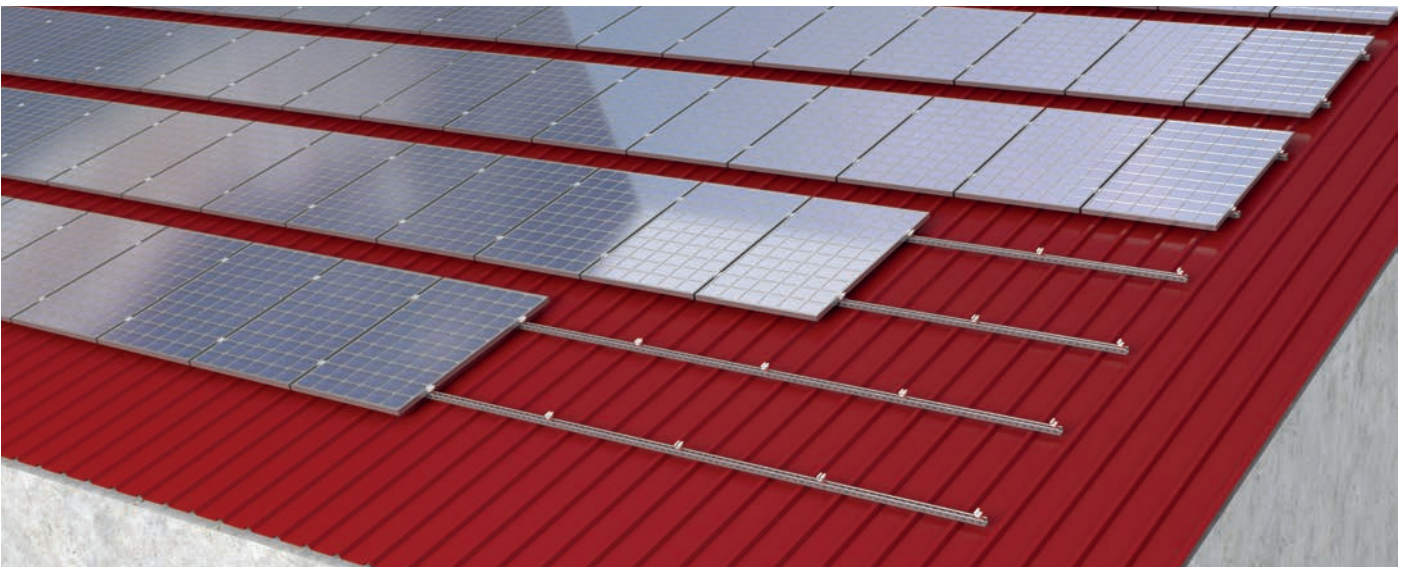
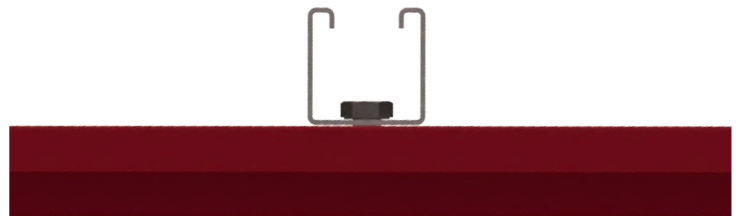
► Trapezoid Roof; Binrak Profile Application



BR1 Mounting:



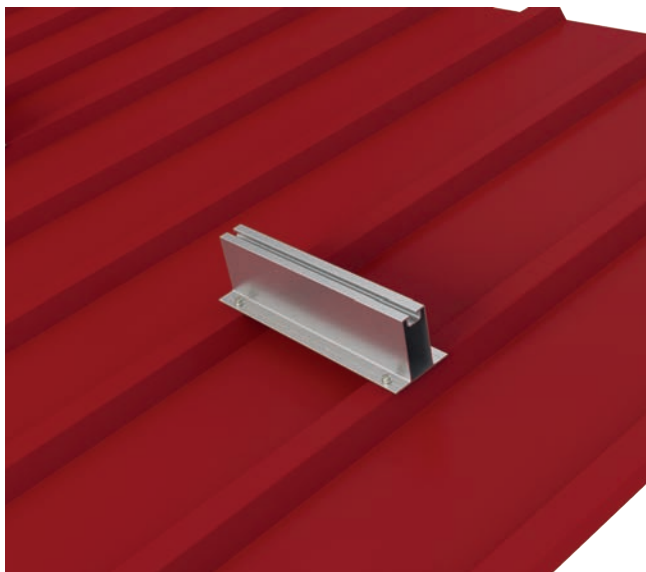
BR2 Mounting:



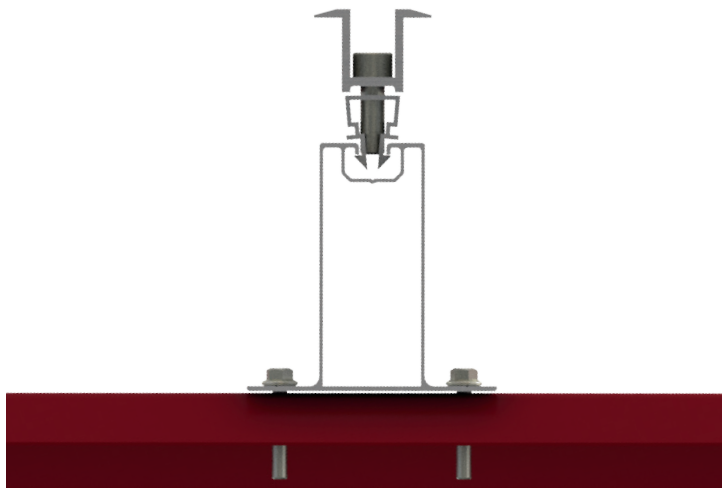
SOLAR MOUNTING SYSTEMS

►► ROOF APPLICATION SOLUTIONS

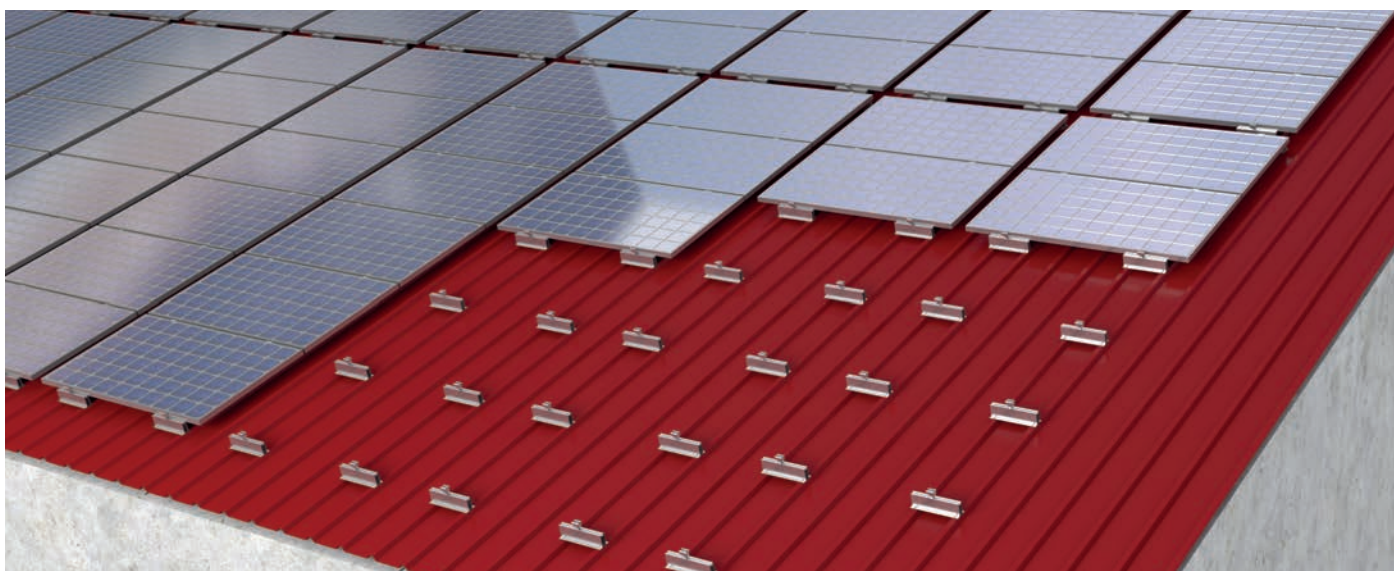
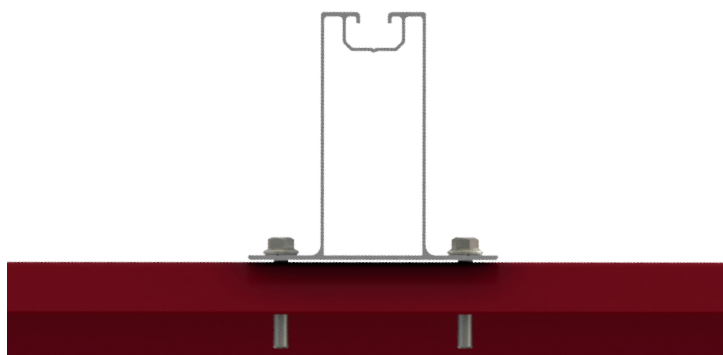
► Trapezoid Roof; Aluminium Profile Application



AL1 Mounting:



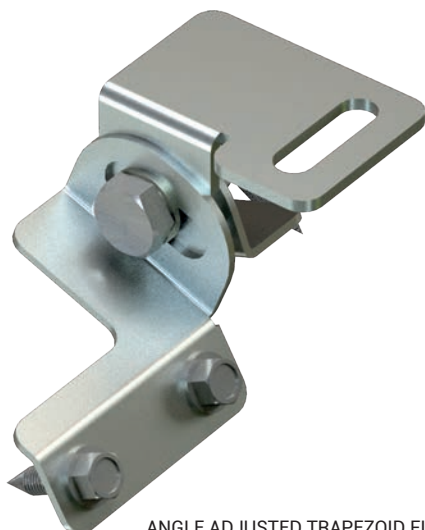
AL2 Mounting:



►► ROOF APPLICATION SOLUTIONS

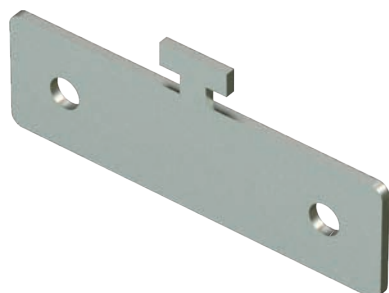
► Trapezoid Roof; Fast and Angle Adjusted Fittings

Description	Order Code
ANGLE ADJUSTED TRAPEZOID FITTINGS (Tk)	3210426



ANGLE ADJUSTED TRAPEZOID FITTINGS

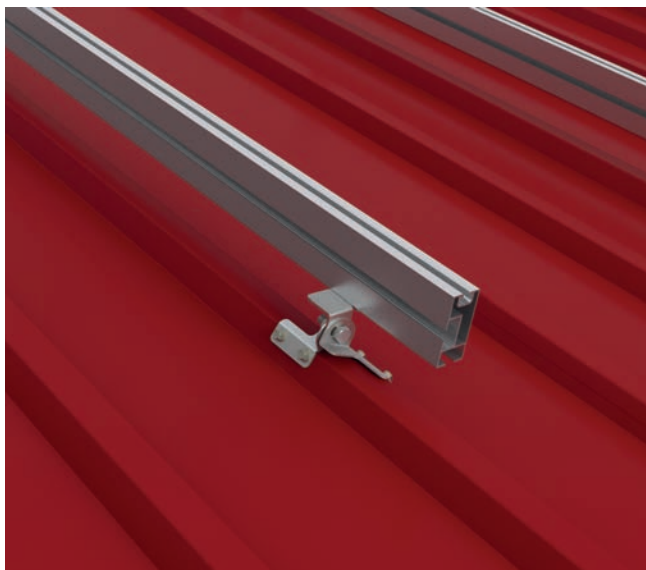
Description	Order Code
TRAPEZOID ROOF QUICK FITTINGS	3210427



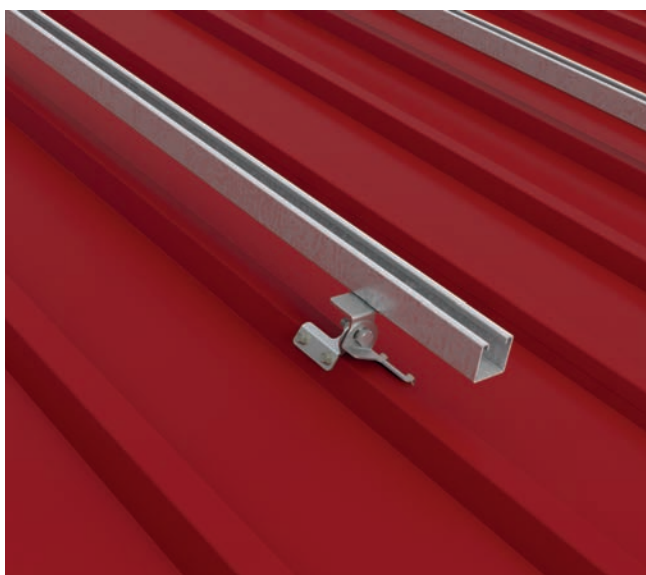
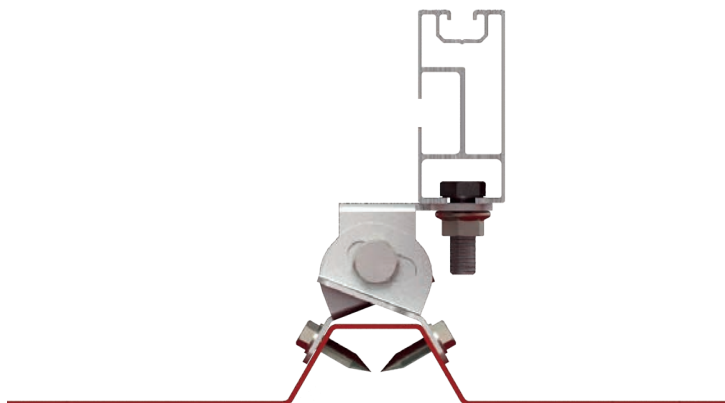
TRAPEZOID ROOF QUICK FITTINGS

►► ROOF APPLICATION SOLUTIONS

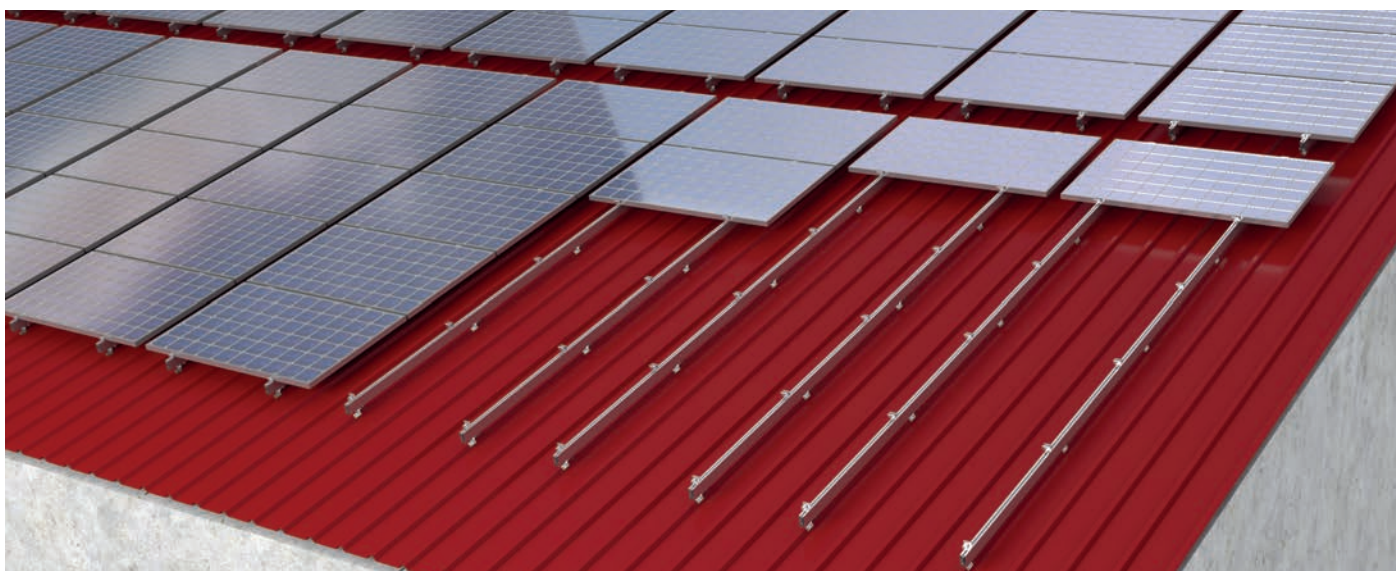
► Trapezoid Roof; Angle Adjusted Profile Application



AL Mounting:



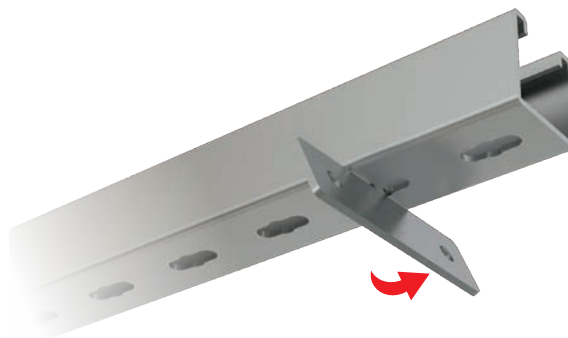
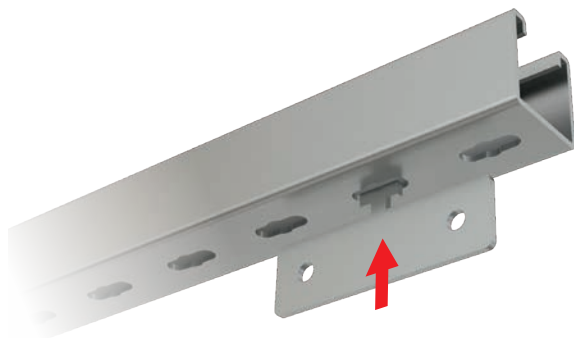
BR Mounting:



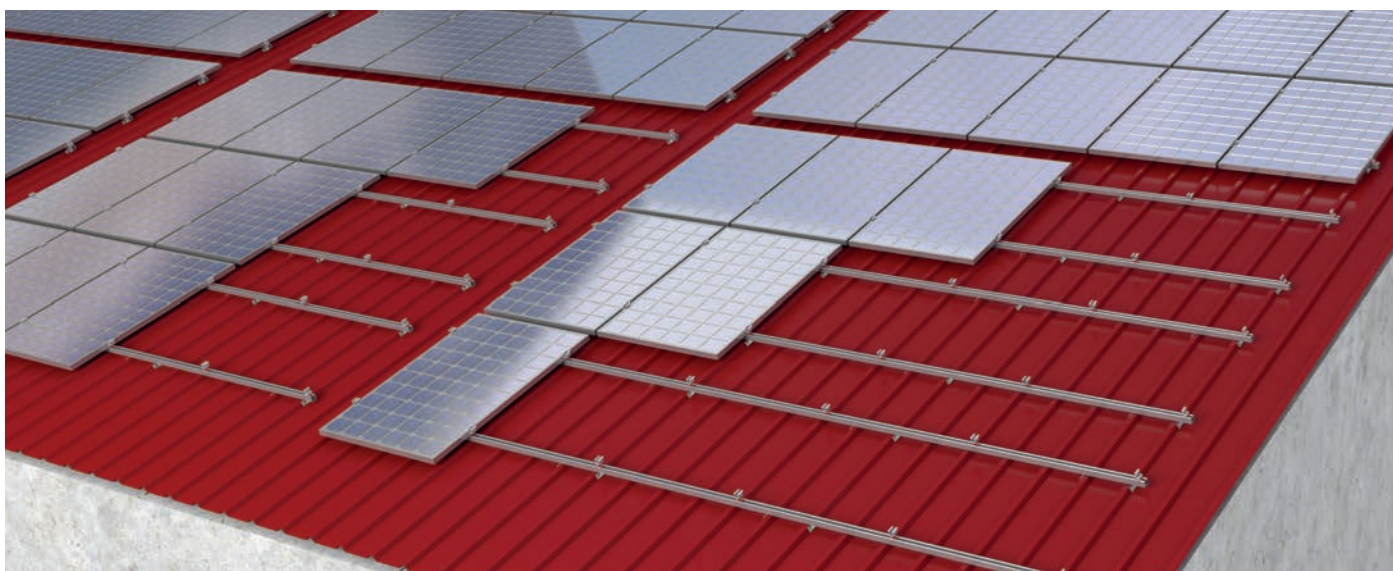
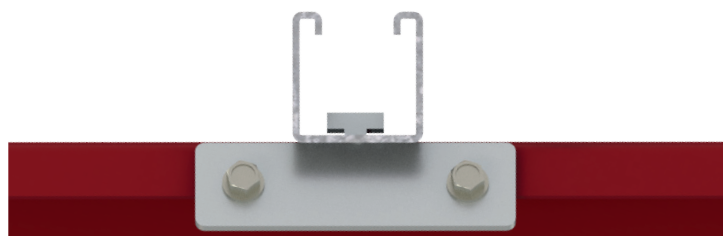
SOLAR MOUNTING SYSTEMS

►► ROOF APPLICATION SOLUTIONS

► Trapezoid Roof; Binrak Profile Application



BR Mounting:

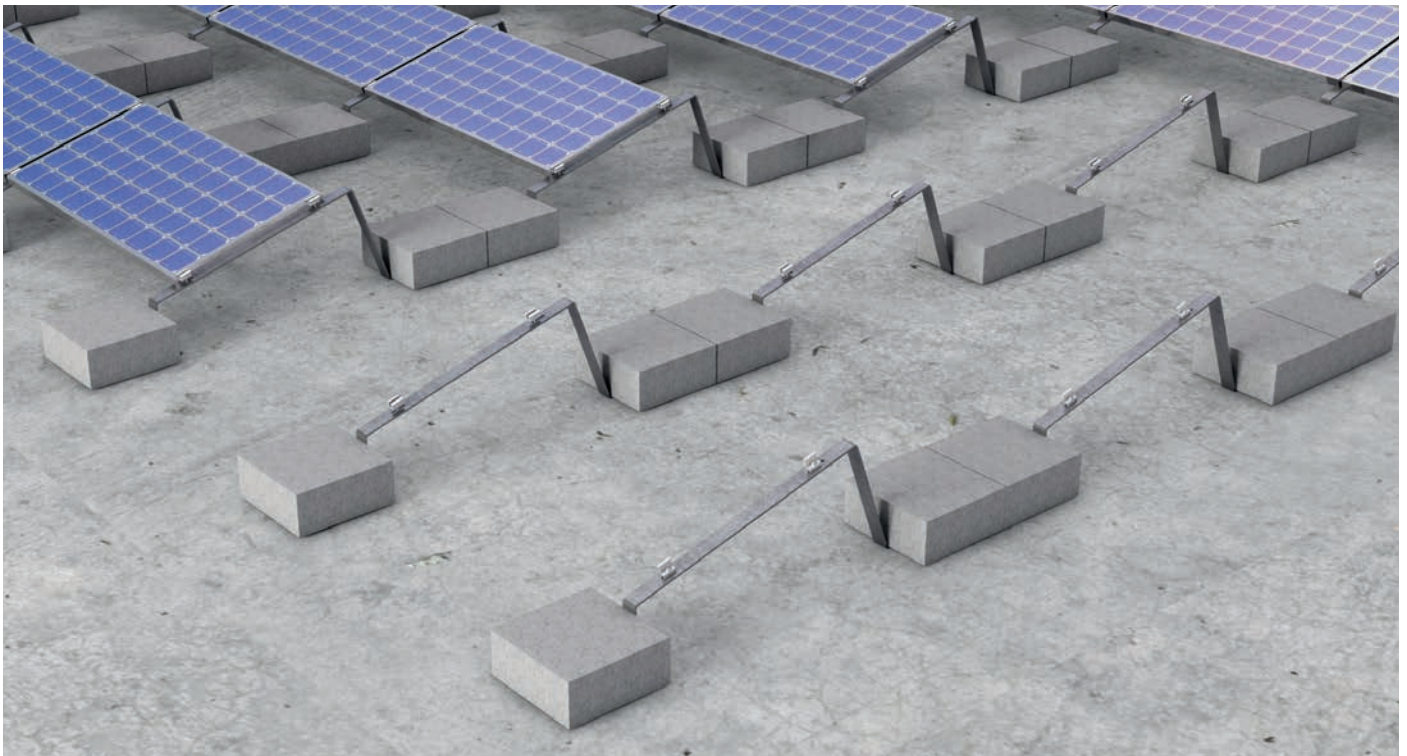


►► ROOF APPLICATION SOLUTIONS

► Standard Flat Roof Applications



Standard Flat Roof Type-1



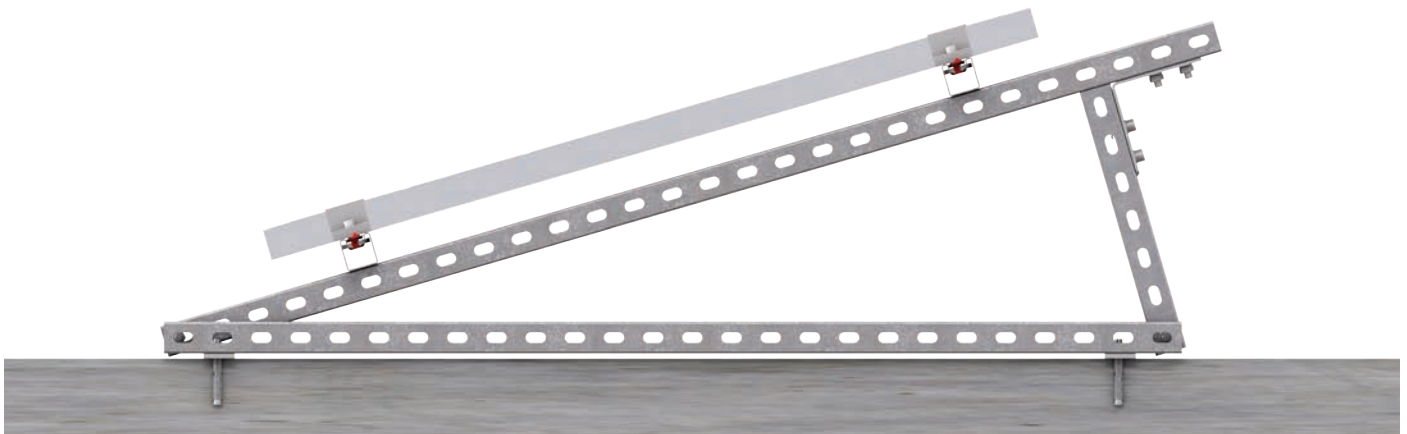
Standard Flat Roof Type-2

►► ROOF APPLICATION SOLUTIONS

► Standard Flat Roof Applications

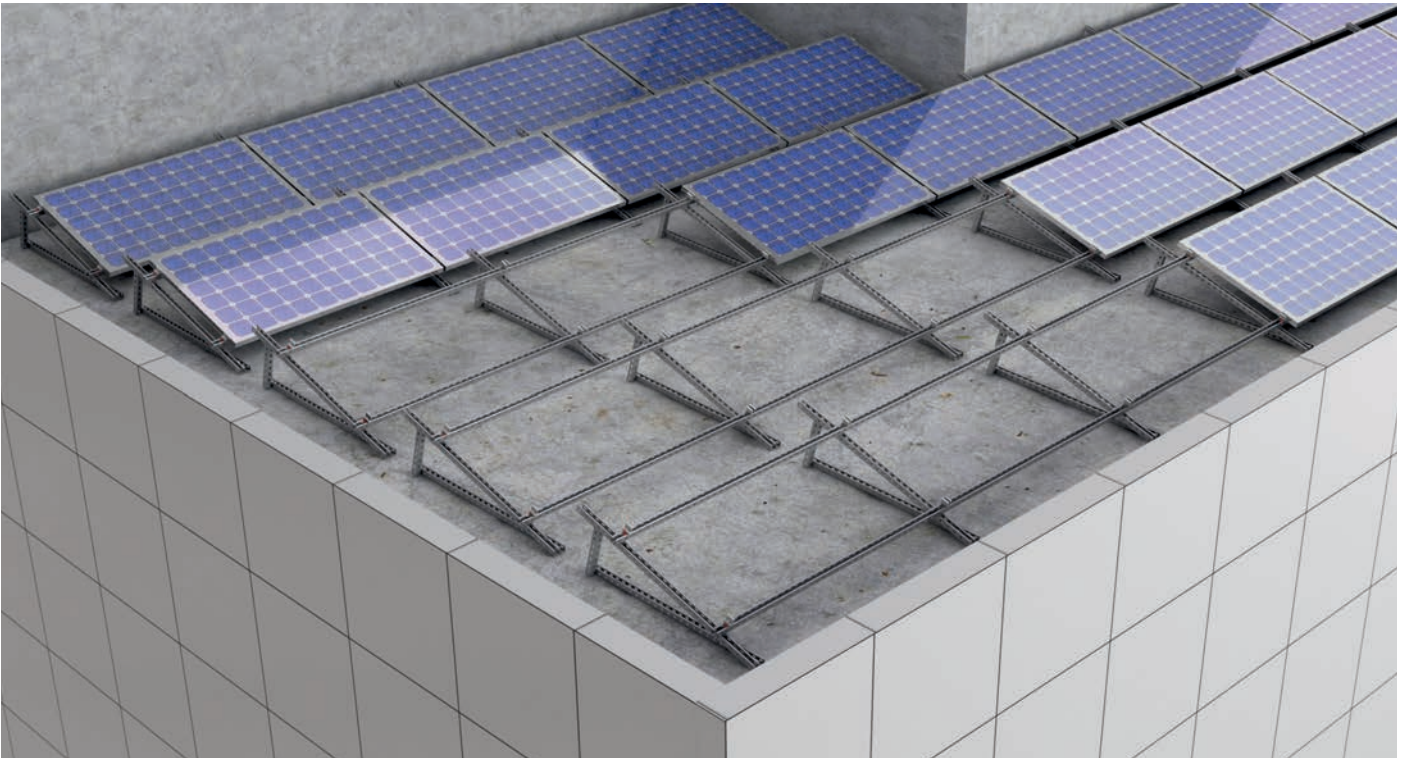
Standard Flat Roof Applications Type-1		
Description	Weight (kg/m)	Order Code
BR 452 (1400mm)	2,130	3215845
BR 452 (1300mm)	2,130	3215845
BR 452 (300mm)	2,130	3002313
"L" Fitting	0,298	3005313
BR 1-1 Square Washer	0,080	3000218

Description	Weight (kg)	Order Code
M10x25 Imbus Bolt	0,027	1023958
M10 Nut	0,010	1000522
M10 Plain Washer	0,003	1000504
M10 Quick Binrak Nut	0,034	1021246

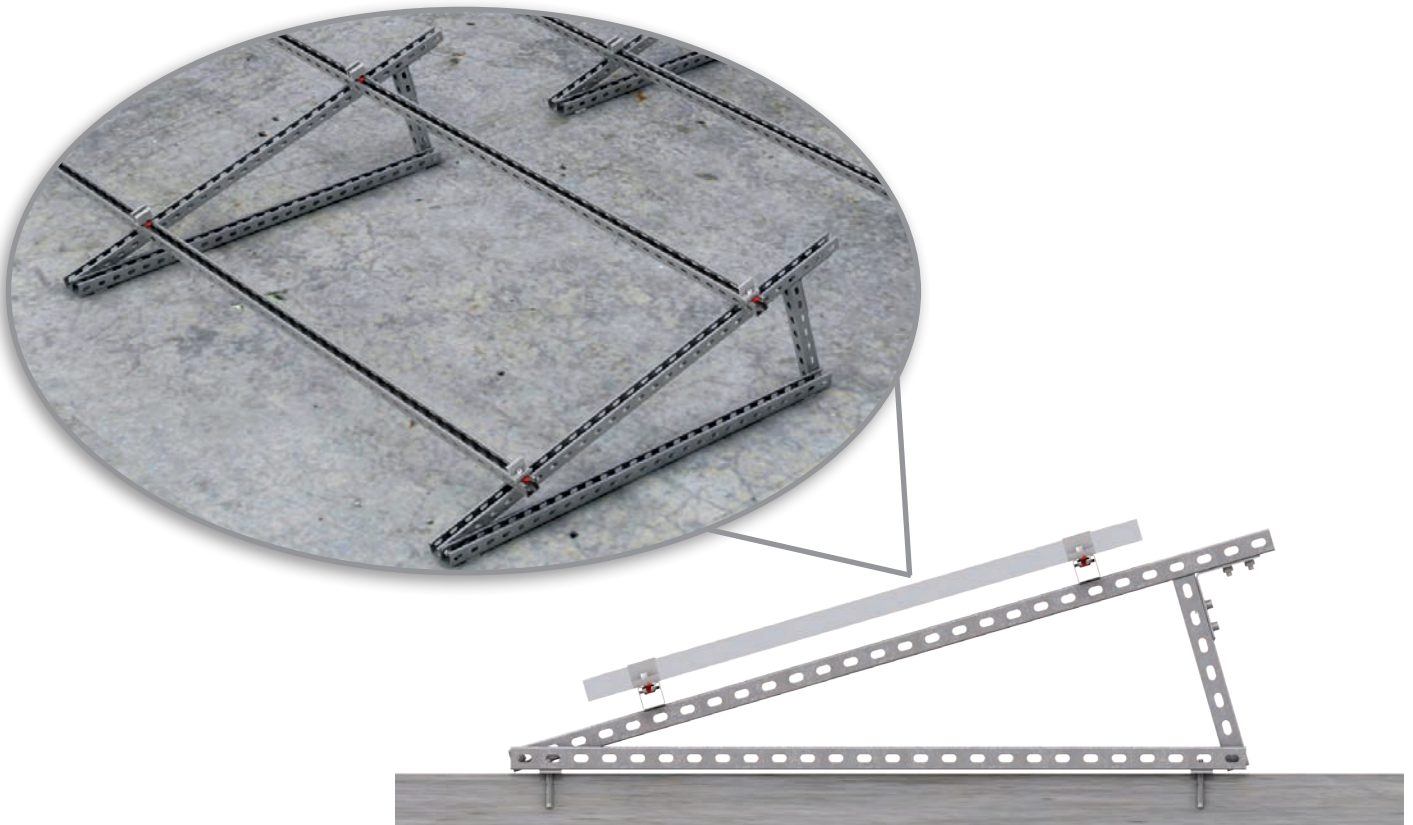


►► ROOF APPLICATION SOLUTIONS

► Standard Flat Roof Applications



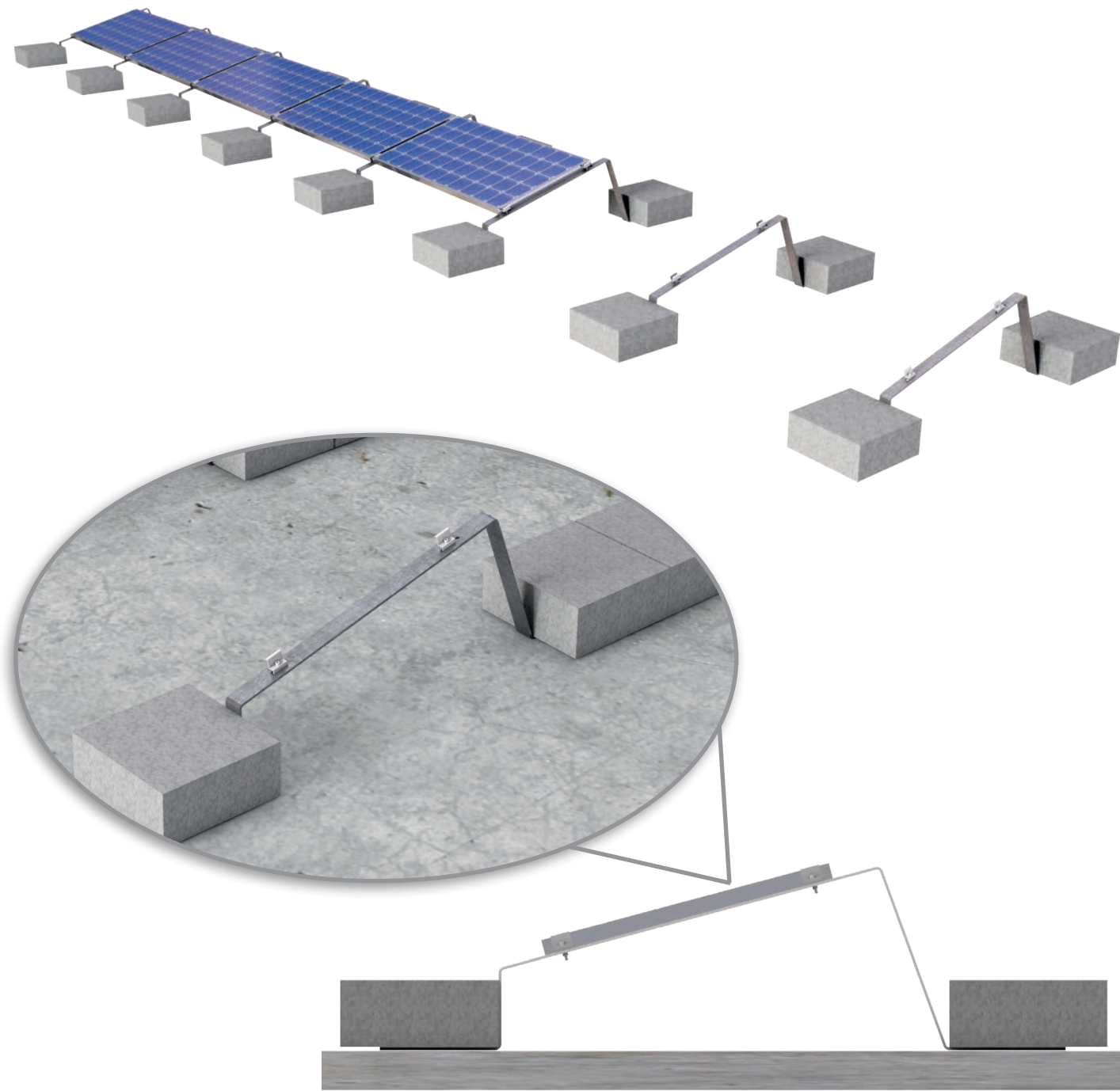
Standard Flat Roof Type-1



►► **ROOF APPLICATION SOLUTIONS**

► **Standard Flat Roof Applications**

Standard Flat Roof Applications Type-2		
Description	Weight (kg/m)	Order Code
Roof Type Support Foot	9,330	3188595



SOLAR MOUNTING SYSTEMS



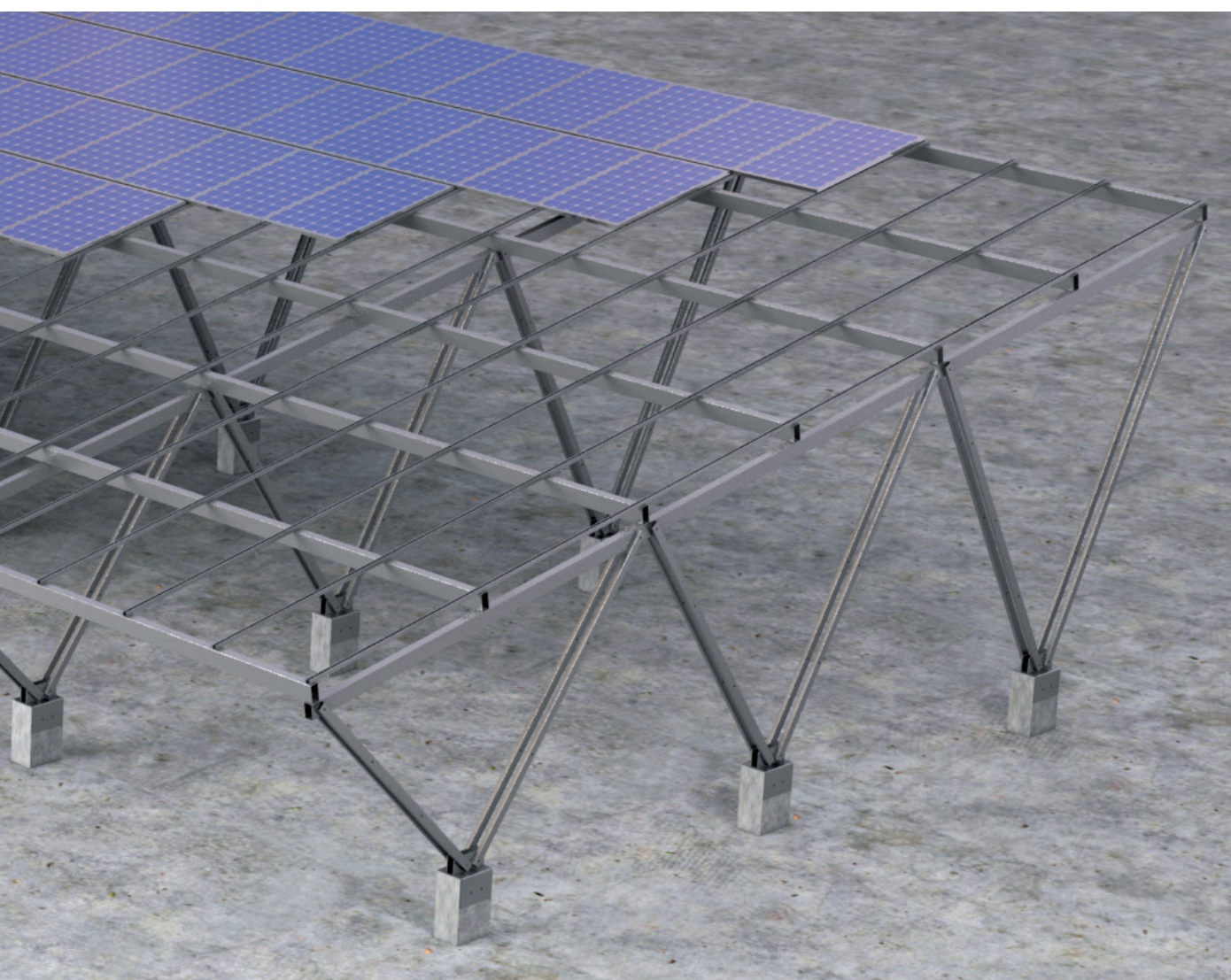
▶▶ DESIGN FORM

[illegible]

Please use this page after copying.

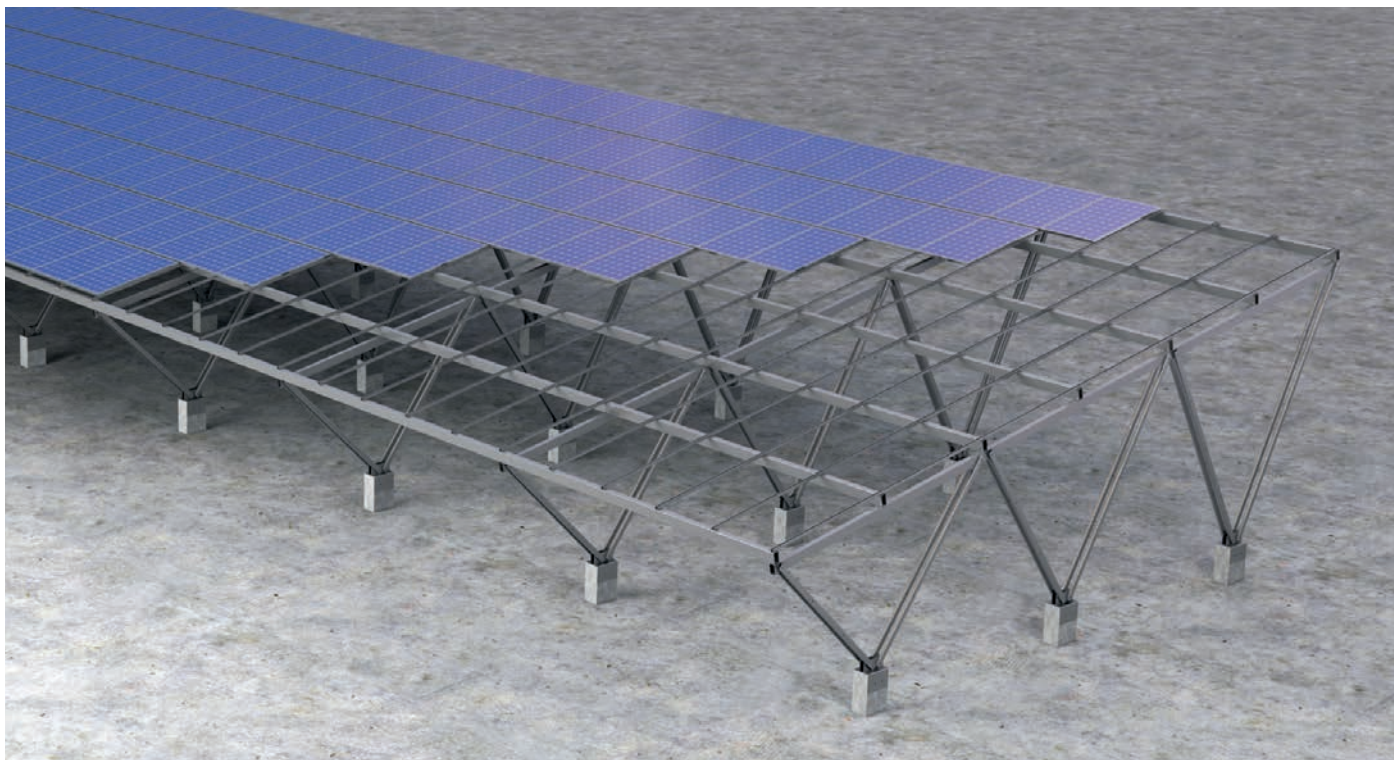


CARPORT APPLICATION SOLUTIONS

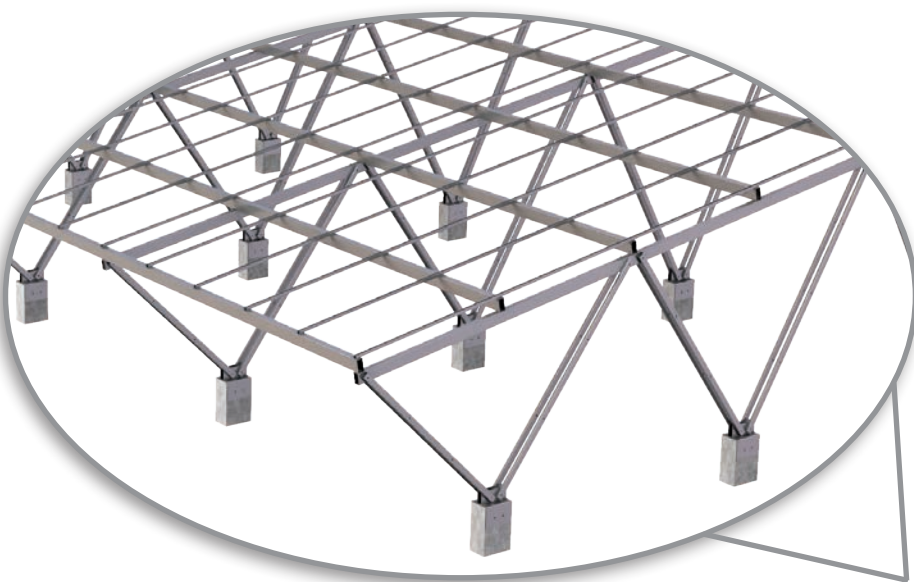


►► CARPORT APPLICATION SOLUTIONS

► Carport Application



Carport:



SOLAR MOUNTING SYSTEMS

► REFERENCES

► Energy References

ELIN&ENERPARC GES



8,6 MW Konya 1 Energy Plant

ELIN&ENERPARC GES



4,2 MW Konya 2 Energy Plant

ELIN & ENERPARC GES



8,6 MW Konya 3 Energy Plant

SOLAR MOUNTING SYSTEMS

►► REFERENCES

► Energy References

KHM ENERGY



MILAS AIRPORT



NUROL SOLAR



PRODUCT TYPES



BUSBAR ENERGY DISTRIBUTION SYSTEMS



CABLE TRAYS



TROLLEY BUSBAR ENERGY DISTRIBUTION SYSTEMS



INDOOR SOLUTIONS



SUPPORT SYSTEMS



EAE Elektrik A.S.
Head Office
Akcaburgaz Mahallesi,
3114. Sokak, No:10 34522
Esenyurt - Istanbul - TURKEY
Tel: +90 (212) 866 20 00
Fax: +90 (212) 886 24 20

EAE DL 3 Factory
Busbar
Makine Ihtisas Organize Sanayi
Bolgesi Mahallesi, 6. Cadde,
8. Sokak, No:6 41455
Dilovası - Kocaeli - TURKEY
Tel: +90 (262) 502 05 65
Fax: +90 (262) 502 05 70

EAE DL 1 Factory
Cable Tray
Makine Ihtisas Organize Sanayi
Bolgesi Mahallesi, 6. Cadde,
8. Sokak, No:2 41455
Dilovası - Kocaeli - TURKEY
Tel: +90 (262) 502 05 65
Fax: +90 (262) 502 05 70

Please visit our website for the updated version of our catalogues.
www.eaeelectric.com

IEC 61439-6



Catalogue 39-Eng. / Rev 00 / 300 pcs. 06/12/2021

S.S.

EAE has full right to make any revisions or changes on this catalogue without any prior notice.

