

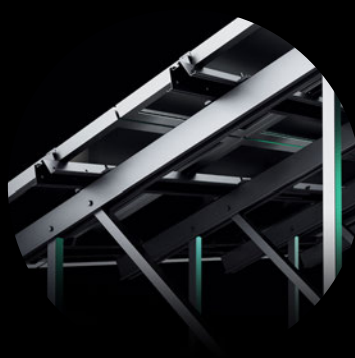
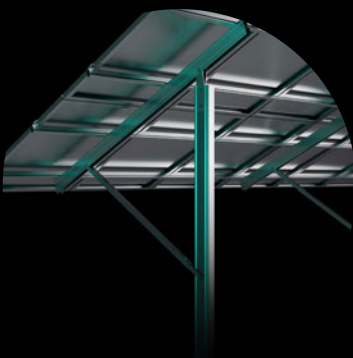
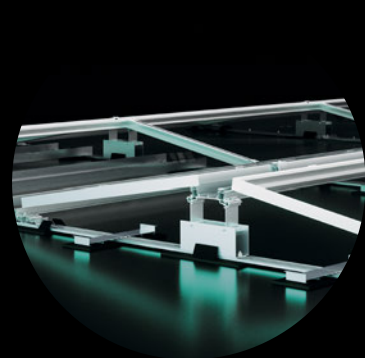
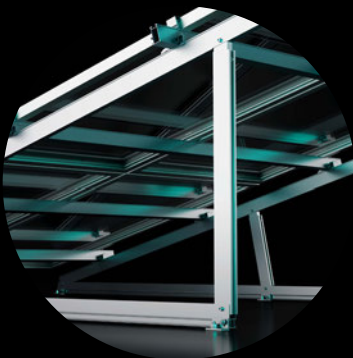
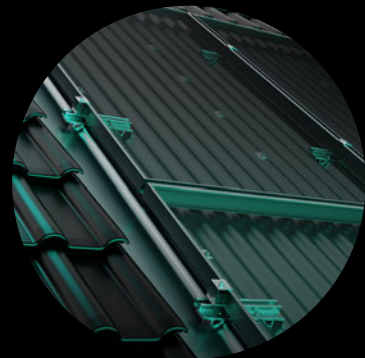
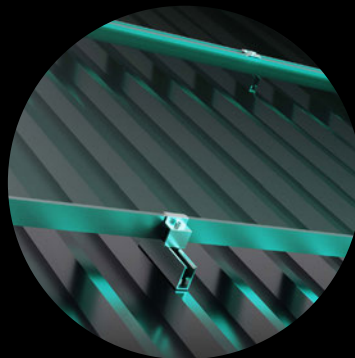
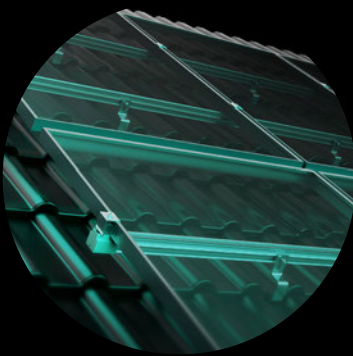


mounting
systems

Product Catalogue **ProLine**

Standard-Portfolio

Version
2024 ^{2/2}



General Information

For all business transactions, Mounting Systems GmbH's "General terms and conditions" are valid, as well as any items negotiated and confirmed for a specific transaction. Through the publishing of this catalogue, all former catalogues become invalid.

All information in this document may be subject to alterations.

Using our [Solar Pro-Tool](#), you can easily verify your statics, create bill of materials and calculate prices. There are technical documentation available for all specified systems.

We can provide technical data sheets and installation instructions in several languages. These can also be found on our website www.mounting-systems.com

For inquiries, which could not be interpreted in SolarPro-Tool, please use our form "Technical Planning Aid" and send it to sales-de@mounting-systems.com Please contact us for requests of packagings that are not included in this product catalogue.

Please note that the transport costs are higher for rail lengths over 2.4 m.



ETN certification
Our ETN-certified items are labelled with the corresponding icon

The following items are included in the certification:
700-0102; 700-0104; 700-0106; 702-0193; 702-0194; 702-0195; 721-0264;
806-0309



Item No.	Item number	Number of the article under which it is available
SU	Selling unit	Quantity of articles as selling unit
Pallet	Pallet unit	Number of sell units per pallet
Ref. No.	Reference number	Number of the single item

Content

Base Rails and Connectors	4
1. Profile 4/35	
2. Profile 4/35 CCS	
3. Profile 5/41	
4. Profile 6/40	
5. Profile 10/48	
6. Cross Rail Connectors	
7. Trapezoidal Sheet Rail & Accessories	

Module Fastening	14
1. Mid Clamps	
2. End Clamps	
3. Laminate Clamps	

Roof Fasteners	20
1. Aluminium Roof Hooks	
2. Stainless Steel Roof Hooks	
3. Shims for Slate Roofs	
4. Adapter	
5. Shims for Slate Roofs	
6. Hanger Bolts and Bracket	
7. Assembly on Standing Seams	
8. Small Parts	
9. Wood Screws	
10. Product Samples	

Flat Roof System	32
1. FD3 Universal Components	
2. FD3-South	
3. FD3-East-West	
4. Eyecatcher SolarFix	
5. Base Triangles & Accessories	
6. Low Ballasted Systems	
7. Small Parts	

In Roof	46
1. Adapter	
2. Sheets	
3. Accessories	

Open Terrain	52
1. 1-Post	
2. 2-Post Steel	

Solarcarports	60
1. E-Port Home Single	
2. E-Port Home Double	
3. E-Port Home Premium	
4. E-Port Vario S1 Industrial	
5. E-Port Line Industrial	

Base Rails & Connectors

1. Profile 4/35
2. Profile 4/35 CCS
3. Profile 5/41
4. Profile 6/40
5. Profile 10/48
6. Cross Rail Connectors
7. Trapezoidal Sheets & Accessories





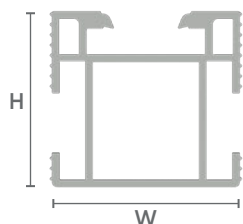
Connector-Technology

The connection, made without screws, maintains the same static properties as the base rail, eliminating weak points. This ensures that the system can handle line loads consistently, providing enhanced security.



1. Profile 4/35

Material: Aluminium (EN AW 6063 T66)



Base Rail 4/35

Dimensions: 35 x 37 mm (H x W)
Weight: 0.81kg/m

Length	Colour	Item No.	SU	Pallet	Ref. No.
600mm	Natural	610-0705	1	1008	610-0705
600mm	Black anodised	610-0713	1	1008	610-0713
1200mm	Natural	610-0704	1	504	610-0704
1200mm	Black anodised	610-0097	1	504	610-0097
1700mm	Natural	610-0056	1	504	610-0056
1700mm	Black anodised	610-0055	1	504	610-0055
2250mm	Natural	610-0096	1	504	610-0096
2400mm	Natural	800-1344	1	126	800-1344
2500mm	Natural	610-0138	1	126	610-0138
2500mm	Black anodised	610-0140	1	126	610-0140
3150mm	Natural	800-0021	1	126	800-0021
3300mm	Natural	800-1384	1	126	800-1384
3600mm	Natural	800-1442	1	126	800-1442
3600mm	Black anodised	800-1443	1	126	800-1443
4150mm	Natural	800-0020	1	126	800-0020
4400mm	Natural	800-1405	1	126	800-1405
5200mm	Natural	800-1317	1	126	800-1317
6000mm	Natural	800-1055	1	126	800-1055
6000mm	Black anodised	800-0992	1	126	800-0992



Connector 4/35

Dimensions: 22.2 x 21.7 x 250 mm (H x W x L)
Weight: 0.11kg

	Item No.	SU	Pallet	Ref. No.
Connector 4/35	720-1669	40	96	602-0048



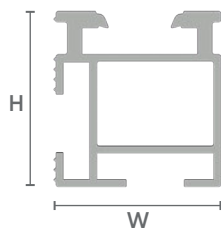
End Cap 4/35

Material: Polymer
Dimensions: 37.4 x 34.2 x 10 mm (H x W x L)
Weight: 0.003kg
Article addition: Used on both ends of support system

Colour	Item No.	SU	Pallet	Ref. No.
Grey	720-1628	50	576	814-0425
Black	720-1631	50	576	814-0431

2. Profile 4/35 CCS

Material: Aluminium (EN AW 6063 T66)



Base Rail 4/35 CCS

Dimensions:

35 x 33 mm (H x W)

Weight:

0.80kg/m

Length	Colour	Item No.	SU	Pallet	Ref. No.
2500mm	Natural	610-0146	1	135	610-0146
3600mm	Natural	800-1478	1	135	800-1478
6000mm	Natural	800-1414	1	135	800-1414
6150mm	Natural	800-1124	1	135	800-1124



Connector CCS-Base Rail; pre-ass.

Dimensions:

16 x 23 x 100 mm (H x W x L)

Weight:

0.058 kg

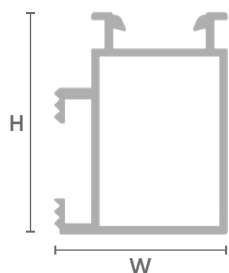
Article addition:

2x M8 screw, pre-ass. (Stainless steel)

	Item No.	SU	Pallet	Ref. No.
Connector CCS; pre-ass.	720-1664	10	576	706-0032

3. Profile 5/41

Material: Aluminium (EN AW 6063 T66)



Base Rail 5/41

Dimensions:
Weight:
Article addition:

41 x 32 mm (H x W)
0.62 kg/m
No upper T-head bolt connection possible

Length	Colour	Item No.	SU	Pallet	Ref. No.
2250 mm	Natural	610-0119	1	532	610-0119
2400 mm	Natural	610-0075	1	532	610-0075
2500 mm	Natural	610-0141	1	171	610-0141
2500 mm	Black anodised	610-0142	1	171	610-0142
3200 mm	Natural	800-0107	1	171	800-0107
3300 mm	Natural	800-1409	1	171	800-1409
3600 mm	Natural	800-1448	1	171	800-1448
3600 mm	Black anodised	800-1449	1	171	800-1449
4200 mm	Natural	800-0106	1	171	800-0106
4400 mm	Natural	800-1408	1	171	800-1408
6000 mm	Natural	800-1407	1	171	800-1407
6000 mm	Black anodised	800-1471	1	171	800-1471
6200 mm	Natural	800-0105	1	171	800-0105

Connector 5/41



Dimensions:
Weight:

31.1 x 21.7 x 250 mm (H x W x L)
0.198 kg

	Item No.	SU	Pallet	Ref. No.
Connector 5/41	720-1739	20	96	602-0204
Connector 5/41 with grounding	720-1740	20	96	706-0205

End Cap 5/41



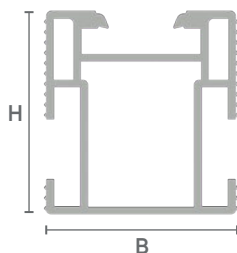
Material:
Dimensions:
Weight:
Article addition:

Polymer
42.5 x 42.8 x 57 mm (H x W x L)
0.022 kg
Used on both ends of support system

Colour	Item No.	SU	Pallet	Ref. No.
Grey	720-1893	50	162	814-0681
Black	720-1894	50	96	814-0682

4. Profile 6/40

Material: Aluminium (EN AW 6063 T66)



Base Rail 6/40

Dimensions:

39 x 37 mm (H x W)

Weight:

0.89 kg/m



Length	Colour	Item No.	SU	Pallet	Ref. No.
600mm	Black anodised	610-0714	1	1008	610-0714
2400mm	Natural	610-0070	1	504	610-0070
2500mm	Natural	610-0143	1	130	610-0143
2500mm	Black anodised	610-0144	1	130	610-0144
3150mm	Natural	800-0019	1	130	800-0019
3300mm	Natural	800-1412	1	130	800-1412
3600mm	Natural	800-1459	1	130	800-1459
3600mm	Black anodised	800-1460	1	130	800-1460
4150mm	Natural	800-0017	1	130	800-0017
4400mm	Natural	800-1411	1	130	800-1411
5200mm	Natural	800-1319	1	130	800-1319
6000mm	Natural	800-1057	1	130	800-1057
6000mm	Black anodised	800-1470	1	130	800-1470



Connector 6/40

Dimensions:

27.4 x 22.7 x 250 mm (H x W x L)

Weight:

0.16 kg

	Item No.	SU	Pallet	Ref. No.
Connector 6/40	720-1670	40	96	602-0049



End Cap 6/40

Material:

Polymer

Dimensions:

39.2 x 37.4 x 10 mm (H x W x L)

Weight:

0.003 kg

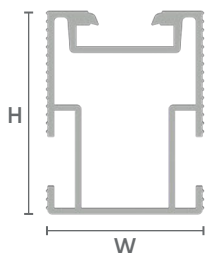
Article addition:

Used on both ends of support system

Colour	Item No.	SU	Pallet	Ref. No.
Grey	720-1629	50	288	814-0426
Black	720-1632	50	288	814-0432

5. Profile 10/48

Material: Aluminium (EN AW 6063 T66)



Base Rail 10/48

Dimensions: 48 x 37 mm (H x W)
Weight: 0.97 kg/m

Length	Colour	Item No.	SU	Pallet	Ref. No.
2400mm	Natural	800-1341	1	98	800-1341
2500mm	Natural	610-0145	1	98	-
2500mm	Black anodised	610-0139	1	98	-
3600mm	Natural	800-1465	1	98	-
3600mm	Black anodised	800-1466	1	98	-
4150mm	Natural	800-0025	1	98	800-0025
4400mm	Natural	800-1413	1	98	800-1413
6000mm	Natural	800-1132	1	98	800-1132
6000mm	Black anodised	800-1468	1	98	800-1132

Connector 10/48



Dimensions: 36.0 x 32.9 x 250 mm (H x W x L)
Weight: 0.31 kg

	Item No.	SU	Pallet	Ref. No.
Connector 10/48	720-1660	40	24	602-0050

End Cap 10/48



Material: Polymer
Dimensions: 48.0 x 37.4 x 10 mm (H x W x L)
Weight: 0.004 kg
Article addition: Used on both ends of support system

Colour	Item No.	SU	Pallet	Ref. No.
Black	720-1633	50	288	814-0433
Grey	720-1630	50	288	814-0427

6. Cross Rail Connectors

Material: Aluminium (EN AW 6063 T66). Stainless steel

For Cross Rail Installation



All types of base rail combinations are possible when using this cross rail connector.

Article addition: The 5/41 rail is not suitable as lower rail layer

	Item No.	SU	Pallet	Ref. No.
Cross Rail Connector	720-1625	20	288	706-0061

Cross Rail Connector for Rail 1/22

For Cross Rail Installation only on Rail 1/22



Dimensions: 36.0 x 32.9 x 250mm (H x W x L)
Weight: 0.31 kg

With the cross rail connector, all base rail basic rail types can be freely combined with each other.

	Item No.	SU	Pallet	Ref. No.
Cross rail connector; pre-ass.	720-1975	20	288	706-0210

7. Trapezoidal Sheet Rail & Accessories

Material: Aluminium (EN AW 6063 T66)

Rail 1/15 with EPDM

Discontinued

Used for landscape mounting directly on top of the crown



Dimensions: 15.5 x 21.6 mm (H x W)
Weight: 0.026 kg/m

Length	Colour	Item No.	SU	Pallet	Ref. No.
100mm	Natural	720-1627	20	576	712-0137

Rail 1/16 with EPDM

Used for landscape mounting directly on top of the crown



Dimensions: 15.5 x 22 mm (H x W)
Weight: 0.037 kg

Length	Colour	Item No.	SU	Pallet	Ref. No.
130mm	Natural	720-1809	20	576	712-0262

Rail 4/40 with EPDM

Used for landscape mounting directly on top of the crown



Dimensions: 40 x 23.4 mm (H x W)
Weight: 0.079 kg

Length	Colour	Item No.	SU	Pallet	Ref. No.
130mm	Natural	720-1810	20	288	712-0263

Rail 5/40 with EPDM

Used for portrait mounting directly on top of the crown



Dimensions: 70 x 40 mm (H x W)
Weight: 0.314 kg

Length	Colour	Item No.	SU	Pallet	Ref. No.
395mm	Natural	720-1811	30	32	712-0264



Rail 4/32 CS with EPDM

Used for portrait mounting directly on top of the crown



Dimensions: 32 x 70 mm (H x W)
Weight: 0.336 kg

Length	Colour	Item No.	SU	Pallet	Ref. No.
395mm	Natural	720-1939	30	32	712-0283



Rail 1/22 incl. T-rubber

Portrait mounting with fixing into the sides of the crown, in combination with side plates

Dimensions: 39 x 22.1 mm (H x W)
Weight: 0.716 kg/m

Length	Colour	Item No.	SU	Pallet	Ref. No.
395 mm	Natural	720-1718	60	32	712-0252
2400 mm; without screws	Natural	712-0253	1	780	712-0253
6000 mm; without screws	Natural	712-0254	1	210	712-0254



Connector 1/22

To connect the rails 1/22

Dimensions: 15.9 x 22.2 x 150 mm (H x W x L)

	Item No.	SU	Pallet	Ref. No.
Connector 1/22	720-1671	25	288	610-0057



Side Trapeze Fastener

Fixing base rail 1/22 on the sides of the crown

Material: Aluminium (EN AW 5754)
Article addition: Pre-assembled with alu-fix stripe

	Item No.	SU	Pallet	Ref. No.
Trapeze fastener side pre-ass.	720-1710	100	420	814-0669



Thin Sheet Screw

Fixing used for all our trapeze rails

Material: Stainless steel (V2A)
Drive: TX30
Article addition: Chipless screwing with washer

	Item No.	SU	Pallet	Ref. No.
JF3-ZT-2-5.5x25-E11 / A2	720-1188	100	576	806-0309



Module Fastening

For framed & frameless PV modules

1. Mid Clamps
2. End Clamps
3. Laminate Clamps

Clickstone-Technology



Module Mid Clamp



Universal Module End Clamp



Pre-assembled clamps are to be mounted quickly and safely on all base rails of the internal click-system through the patented Clickstone. By universally adjustable clamps, you always have the right clamps for framed and frameless modules in stock.

Module Mid Clamps

Fixing modules of different frame heights



Incl. small parts (pre-assembled):

- **Stainless steel allen bolt M6**
- **Retainer ring, plastic**
- **Optionally with grounding clip for equipotential bonding**

Material:

Aluminium (EN-AW-6063 T66)

Tightening torque:

8-10 Nm

Dimensions:

41 x 40 mm (L x W)

Frame height		Colour	Item No.	SU	Pallet	Ref. No.
30-40 mm	Simple Clamping	Natural	720-1608	40	162	700-0080
		Black anodised	720-1611	40	162	700-0083
	Clamping with grounding clip	Natural	720-1614	40	162	700-0102
		Black anodised	720-1617	40	162	700-0103
33-45 mm	Simple Clamping	Natural	720-1609	40	162	700-0081
		Black anodised	720-1612	40	162	700-0084
	Clamping with grounding clip	Natural	720-1615	40	162	700-0104
		Black anodised	720-1618	40	162	700-0105
38-50 mm	Simple Clamping	Natural	720-1610	40	162	700-0082
		Black anodised	720-1613	40	162	700-0085
	Clamping with grounding clip	Natural	720-1616	40	162	700-0106
		Black anodised	720-1619	40	162	700-0107



Universal Module End Clamps

Fixing modules of different frame heights



Incl. small parts (pre-assembled):

- Stainless steel Allen bolt M6

Material:

Aluminium (EN-AW-6063 T66)

Tightening torque:

8-10 Nm

Dimensions:

35 x 40 mm (L x W)

Frame height		Colour	Item No.	SU	Pallet	Ref. No.
30-40mm	Simple Clamping	Natural	720-1327	10	576	702-0193
		Black anodised	720-1333	10	576	702-0196
33-45mm	Simple Clamping	Natural	720-1329	10	576	702-0194
		Black anodised	720-1335	10	576	702-0197
38-50mm	Simple Clamping	Natural	720-1331	10	576	702-0195
		Black anodised	720-1337	10	576	702-0198

3. Laminate Clamps

Material:	Aluminium EN AW 6063 T6 (AlMg0.5Si)
Material screws:	Stainless steel X5CrNi18-10. 1.4301. ASTM 304
Material rubber:	EPDM shore hardness 70 + 5 TPE (thermoplastic elastomer)
Article addition:	Only over the T-head bolt mountable

Laminate Middle Clamp LMC TPE 80 mm for 7 mm



Clamping area:	13.45 x 80 mm = 1076 mm ² (W x L)
Clamping range:	6.5 – 7.5 mm
Clamping distance:	22 mm
Weight:	0.145 kg
Authorized for:	First Solar Serie 4

Colour	Item No.	SU	Pallet	Ref. No.
Natural	720-1624	40	96	700-0149
Black anodised	720-1981	40	96	700-0255

Laminate End Clamp LEC TPE 80 mm for 7 mm



Clamping area:	13.45 x 80 mm = 1076 mm ² (W x L)
Clamping range:	6.5 – 7.5 mm
Clamping distance:	22 mm
Weight:	0.115 kg
Authorized for:	First Solar Serie 4

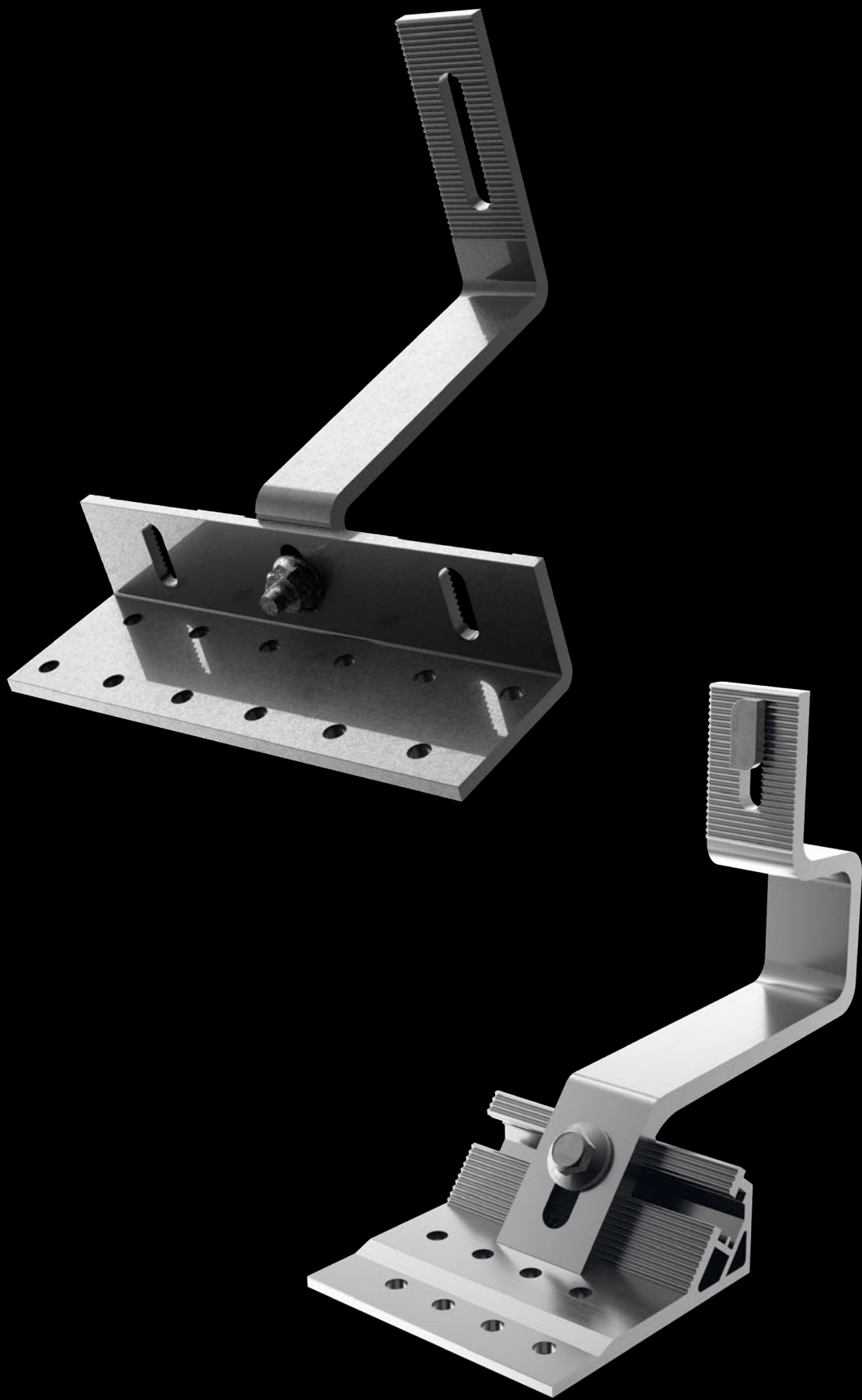
Farbe	Artikelnr.	VPE	Palette	Ref.-Nr.
Natur	720-1647	5	576	702-0380
Schwarz eloxiert	720-1980	5	576	702-0453

Roof Fasteners

1. Aluminium Roof Hooks
2. Stainless Steel Roof Hooks
3. Shims
4. Hanger Bolts and Bracket
5. Assembly on Standing Seams
6. Small Parts
7. Wood Screws
8. Product Samples

For Roof Coverings with:

- Roof Stones
- Roof Tiles
- Corrugated Eternit
- Trapezoidal Sheet
- Corrugated Iron
- Standing Seams



1. Aluminium Roof Hooks; pre-assembled

Material: Aluminium (EN AW-6082 T6)



Roof Hook Aluminium 100-7-40 pre-ass.

Total height:	171mm
Base dimensions:	95 x 100mm (W x L)
Base holes:	8 x ø7mm
Height in roof batten area:	40 - 51mm
Max. height adjustment:	21mm to rail area
Weight:	0.49kg

Colour	Item No.	SU	Pallet	Ref. No.
Aluminium: Natural	721-0055	20	32	707-0050



Roof Hook Aluminium 100-7-45 pre-ass.

Total height:	172mm
Base dimensions:	95 x 100mm (W x L)
Base holes:	8 x ø7mm
Height in roof batten area:	45 - 58mm
Max. height adjustment:	21mm to rail area
Weight:	0.49kg

Colour	Item No.	SU	Pallet	Ref. No.
Aluminium: Natural	721-0050	20	32	707-0048



Roof Hook Aluminium 100-9-45 pre-ass.

Total height:	172mm
Base plate:	95 x 100mm (W x L)
Base holes:	8 x ø9mm
Height in roof batten area:	45 - 58mm
Max. height adjustment:	21mm to rail area
Weight:	0.47kg

Colour	Item No.	SU	Pallet	Ref. No.
Aluminium: Natural	721-0412	20	32	707-0214
Leg in black anodised	721-0411	20	32	707-0213



Roof Hook Aluminium 111-9-40 Vario pre-ass.

Total height:	180mm
Base dimensions:	110 x 111mm (W x L)
Base holes:	8 x ø9mm
Height in roof batten area:	40 - 51mm
Max. height adjustment:	31mm to rail area
Weight:	0.64kg
Article addition:	with adjustable bracket for vertical and horizontal installation of system support profile

Colour	Item No.	SU	Pallet	Ref. No.
Aluminium: Natural	721-0070	20	24	707-0053

2. Stainless Steel Roof Hooks

Material: Stainless Steel V2A



Roof Hook Stainless Steel 180-7-45

Mounting on profile roofs

Total height:	170mm
Base dimensions:	50 x 180 x 4 mm (W x L x T)
Base holes:	12 x ø7 mm
Height in roof batten area:	45mm
Max. height adjustment:	38mm to rail area
Upper slot dimensions:	38mm and ø9mm
Weight / Comfort:	0.57kg / 0.61kg

In the comfort version are support bracket for the base rails and small parts for the rail connection to the roof hooks pre-assembled.

Colour	Item No.	SU	Pallet	Ref. No.
Basic: Steel: Natural	720-1716	20	40	805-0010
Comfort: Steel: Natural	720-1730	20	40	707-0202



Roof Hook Stainless Steel 180-7-44 - 90°

Vertical mounting on profile roofs

Total height:	156mm
Base dimensions:	50 x 180 x 4 mm (W x L x T)
Base holes:	12 x ø7 mm
Height in roof batten area:	44 mm
Max. height adjustment:	37mm to rail area
Upper slot dimensions:	38mm and ø9mm
Weight:	0.56 kg

Colour	Item No.	SU	Pallet	Ref. No.
Steel: Natural	720-1731	20	32	805-0047



Roof Hook Stainless Steel 150-9-49 Heavy Load

Mounting on profile roofs only with rail 6/40 and 10/48

Total height:	228mm
Base dimensions:	80 x 150 x 5 mm (W x L x T)
Base holes:	7 x ø9mm
Height in roof batten area:	49mm
Max. height adjustment:	30mm to rail area
Upper slot dimensions:	30mm and ø9mm
Weight / Comfort:	1.30kg / 1.38kg

In the comfort version are support bracket for the base rails and small parts for the rail connection to the roof hooks pre-assembled.

Colour	Item No.	SU	Pallet	Ref. No.
Basic: Steel: Natural	720-1734	20	24	805-0051
Comfort: Steel: Natural	720-1728	20	24	707-0204

2. Stainless Steel Roof Hooks

Material: Stainless Steel V2A



Roof Hook Stainless Steel 180-7-35 2 times adjustable

Mounting on profile roofs

Total height:	151mm
Base dimensions:	56 x 180 x 5 mm (W x L x T)
Base holes:	12 x ø 7 mm
Max. height adjustment:	38 mm to rail area
Height in roof batten area:	35 - 50 mm
Upper slot dimensions:	38 mm and ø 9 mm
Weight / Comfort:	0.95 kg / 1.00 kg



In the comfort version are support bracket for the base rails and small parts for the rail connection to the roof hooks pre-assembled

Colour	Item No.	SU	Pallet	Ref. No.
Basic: Steel: Natural	720-1737	20	32	805-0071
Comfort: Steel: Natural	720-1732	20	32	707-0201



Roof Hook Stainless Steel 30-7-29 Plain Tiles

Mounting on plain tile roofs

Total height:	120mm
Leg dimensions:	30 x 79 x 5 mm (W x L x T)
Base holes:	2 x ø 7 mm
Max. height adjustment:	15 mm to rail area
Height in roof batten area:	29 mm
Horizontal leg length:	189 mm
Upper slot dimensions:	30 mm and ø 9 mm
Weight / pre-assembled:	0.48 kg / 0.60 kg



The pre-assembled variant includes besides the roof hook:
1 bracket 84 x 40 x 7.75 mm, with slot 15 mm and ø 9 mm,
T-head bolt and self-locking nut M8 for connection to the
base rails, pre-assembled

Colour	Item No.	SU	Pallet	Ref. No.
Basic: Steel: Natural	720-1683	20	32	805-0018
Pre-assembled: Steel: Natural	720-1813	20	32	707-0212

Roof Hook Stainless Steel 30-7-28 Slate Tiles

Mounting on slate roofs



Total height / pre-assembled:	70 mm / 154 mm
Leg dimensions:	30 x 250 x 5 mm (W x L x T)
Base holes:	3 x countersunk holes ø 7 mm
Max. height adjustance:	15 mm to rail area
Height in roof batten area:	65 mm
Upper slot dimensions:	28 mm and ø 9 mm
Weight / pre-assembled:	0.49 kg / 0.53 kg

The pre-assembled variant includes besides the roof hook:
1 bracket 84 x 40 x 7.75 mm (Aluminium EN AW-6063 T66),
 with slot 15 mm and ø 9 mm, T-head bolt and self-locking nut M8
 for connection to the base rails, pre-assembled

Colour	Item No.	SU	Pallet	Ref. No.
Basic: Steel: Natural	720-1682	20	48	805-0007
Pre-assembled: Natural	720-1667	20	32	707-0036

Roof Hook Stainless Steel 30-7-28 Slate Tiles Standard

Mounting on slate roofs



Total height:	115 mm
Leg dimensions:	30 x 250 x 5 mm (W x L x T)
Base holes:	3 x countersunk holes ø 7 mm
Max. height adjustance:	28 mm to rail area
Horizontal leg length:	250 mm
Upper slot dimensions:	28 mm and ø 11 mm
Weight:	0.40 kg

Colour	Item No.	SU	Pallet	Ref. No.
Steel: Natural	720-1726	20	48	805-0048



3. Roof Hook for Bitumen and Trapezoidal Roofs

Bracket for Sheet Installation pre-ass.

Fastening to bitumen and trapezoidal roofs



Material:	Aluminium (EN-AW-6063 T66)
Dimensions:	30 x 68 x 138 mm (W x H x L)
Upper slot dimensions:	30 mm and ø 5 mm
Weight:	0.099 kg
Article addition:	Pre-ass. T-head bolt with hexagonal locking nut

Colour	Item No.	SU	Pallet	Ref. No.
Aluminium: Natural	721-0045	20	243	707-0058



4. Adapter



Roof Hook Adapter 3

For extending the roof hook adapter if the contact surface is no longer sufficient

Material:	Aluminium (EN-AW-6082 T6)
Dimensions:	39 x 110 x 2995 mm (H x W x L)
Weight:	6.883 kg
Article addition:	Connections with aluminium roof hooks without base plate

Colour	Item No.	SU	Pallet	Ref. No.
Natural	610-0118	1	-	610-0118



5. Shims for Slate Roofs



Shim for Slate Roofs

Metal roof tile replacement beneath the hangerbolt mounting

Dimensions:	250 x 380 mm (W x L)
Weight:	0.6 kg

Colour	Item No.	SU	Pallet	Ref. No.
Galvanized	720-1679	30	3	801-0286
Black	720-1680	30	7	801-0287



Shim for Profiled Tile Roofs

Metal roof panel beneath the roof mounting

Dimensions:	330 x 420 mm (W x L)
Weight:	0.538 kg

Colour	Item No.	SU	Pallet	Ref. No.
Red	801-0359	1	50	801-0359



Shim for Plain Tile Roofs

Metal roof panel beneath the roof mounting

Dimensions incl. foam wedge:	180 x 380 mm (W x L)
Weight:	0.538 kg

Colour	Item No.	SU	Pallet	Ref. No.
Red	720-1678	30	24	801-0285

6. Hanger Bolts and Brackets

Stainless Steel Hanger Bolt M10 & M12

Mounted on the roofs with wooden (Timber) substructure

With EPDM seal and nuts



	Item No.	SU	Pallet	Ref. No.
Hanger bolt M10 x 200	720-1184	50	96	806-0055
Hanger bolt M12 x 250	720-1808	50	48	806-0074
Hanger bolt M12 x 300	720-1311	50	59	806-0032

Solar Fastener

Mounted on the roofs with metal substructure

With EPDM seal and nuts



	Item No.	SU	Pallet	Ref. No.
JT3-SB-8.0 x 155/M10 x 70	720-1941	25	-	806-0552
SB-8.0 x 125/M10 x 70	720-1976	50	59	806-0501
SB-8,0X150/50 FZD ø25	720-2003	10	-	806-0580
SB-8,0X200/50 FZD ø25	720-2004	10	-	806-0581

Bracket for Hanger Bolt

Connecting hanger bolts to the base rail



Dimensions:	38 x 54.5 x 84 mm (W x L x H)
Material Thickness:	7.75mm
Slot on leg:	10mm with ø 9mm
Drill hole in the base:	ø 11/13mm
Material:	Aluminium (EN AW 6063 T66)

	Item No.	SU	Pallet	Ref. No.
Bracket for hanger bolt M10	720-1641	50	162	601-0124
Bracket for hanger bolt M12	720-1642	50	162	601-0125

Bracket for Roof Hook

For connections to the roof hooks for plain tiles and slates



Dimensions:	38 x 40 x 84 mm (W x L x H)
Material Thickness:	7.75mm
Slot on leg:	27mm and ø 9mm
Drill hole in the base:	ø 9mm
Material:	Aluminium (EN AW 6063 T66)

	Item No.	SU	Pallet	Ref. No.
Bracket for roof hook	720-1651	50	243	601-0115



Standing Seam Clamp *

Fixing on standing seam sheeting without drilling

Dimensions: 120 x 60.35 mm (L x H)
Weight: 0.629 kg

	Item No.	SU	Pallet	Ref. No.
Standing seam clamp angled; Stainless steel	720-1689	20	96	805-0080



Kalzip Clamp *

Fastening on Kalzip roofs without drilling

Dimensions: 50 x 59.5 mm (L x H)
Weight: 0.1 kg

	Item No.	SU	Pallet	Ref. No.
Kalzip Clamp; Aluminium	805-0169	1	7200	805-0169



S-5 E-Mini-Clamp *

Fixing on standing seam roofs without drilling

	Item No.	SU	Pallet	Ref. No.
S-5 E	720-1964	50	-	805-0173
S-5 E-Mini	720-1685	90	80	805-0074
S-5 E-Mini-Fl	720-1686	125	82	805-0075



S-5 Z-Mini-Clamp *

Fixing for example on Kalzip roofs without drilling

	Item No.	SU	Pallet	Ref. No.
S-5 Z	720-1965	30	-	805-0174
S-5 Z-Mini	720-1687	68	99	805-0076
S-5 Z-Mini-Fl	720-1688	68	12	805-0077



S-5! S-Clamp *

Fixing on standing seam roofs without drilling

	Item No.	SU	Pallet	Ref. No.
S-5 S	720-1966	30	-	805-0175

8. Small Parts Roof Fastening



S-5 Screw

Fixing for S-5 Mini clamps

Material: Stainless steel A2

Threaded bolt M8x16 with locking teeth

	Item No.	SU	Pallet	Ref. No.
S-5 Screw	720-1886	50	-	806-0529



Fixation for Bracket

Fixing the bracket to the roof hooks for plain tiles or slate

Material: Stainless steel A2

Hexagon socket screw M8x25, lock washer 8mm, Washer 8,4mm, Hexagon nut M8

	Item No.	SU	Pallet	Ref. No.
Fixation for bracket	720-0041	50	576	720-0041



T-head Bolt with Lock Nut

Fastening the base rails to the roof hooks / hanger bolts

Material: Stainless steel A2

T-head bolt M8 25mm

Hexagonal locking nut M8

	Item No.	SU	Pallet	Ref. No.
T-head bolt set M8x25	720-1312	20	1600	806-0021



Omega-Clamp D 8-14 mm. black

Used for cable management on the upper channel of the rails

Colour	Item No.	SU	Pallet	Ref. No.
Black	720-1322	50	576	807-0134



*Please note that with this type of fastening on seam roofs, the roof covering must be able to absorb the wind suction forces. The customer must clarify on site whether the roof can withstand the fastening forces. Mounting Systems GmbH cannot guarantee the connection of the sheet to the substructure.

8. Wood Screws



Hexagon 8 mm; Flat head

Fastening heavy load roof hooks to the roof substructure

Galvanized steel A2K

	Item No.	SU	Pallet	Ref. No.
Hexagon wood screw. 8 x 80 mm	720-1645	100	576	806-0029



Torx 6 mm; Flat head

Fixing the standard roof hook
and roof hooks for plain tiles to the roof

Torx-Drive (AW 30)

Stainless steel A2

	Item No.	SU	Pallet	Ref. No.
Chipboard screw 6 x 80 mm	720-1636	100	576	806-0072



Torx 6 mm; Countersunk head

Fastening slate roof hook to the roof substructure

Torx-Drive (AW 30)

Stainless steel A2

	Item No.	SU	Pallet	Ref. No.
Wood screw 6.0 x 80 mm	720-1887	100	-	806-0536
Wood screw 6.0 x 100 mm	720-1888	100	500	806-0537



Cross recess 6 mm; Countersunk head

Fastening slate roof hook to the roof substructure

Stainless steel A2K

	Item No.	SU	Pallet	Ref. No.
Chipboard screw 6.0 x 100 mm	720-1635	100	576	806-0017

9. Product Sample



Product Samples ProLine

Sample box 320 x 240 x 115 mm with various loose components

Pitched ProLine
Trapeze ProLine

	Item No.	SU	Pallet	Ref. No.
Product sample loose	720-1653	1	32	720-1653



Sample Case ProLine

Sample case 320 x 240 x 115mm with various loose components

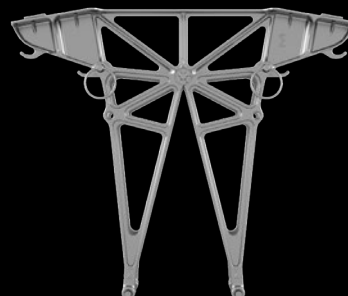
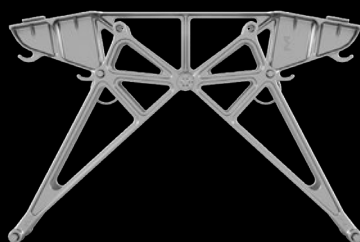
Pitched ProLine
Trapeze ProLine

	Item No.	SU	Pallet	Ref. No.
Sample Case Pitched & Trapeze	720-1925	1	-	

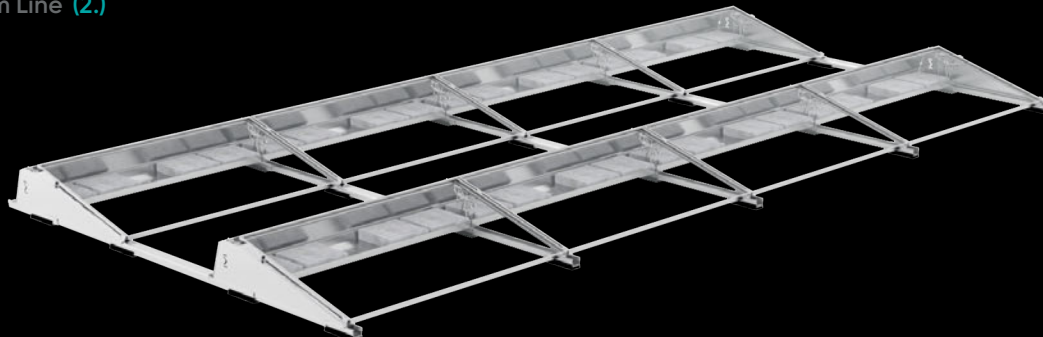
Flat Roof Systems

1. FD3 Universal Components
2. FD3-South
3. FD3-East-West
4. Base Triangles & Accessories
5. Low ballasted Systems
6. Small Parts

FD3 Premium Line (1.)



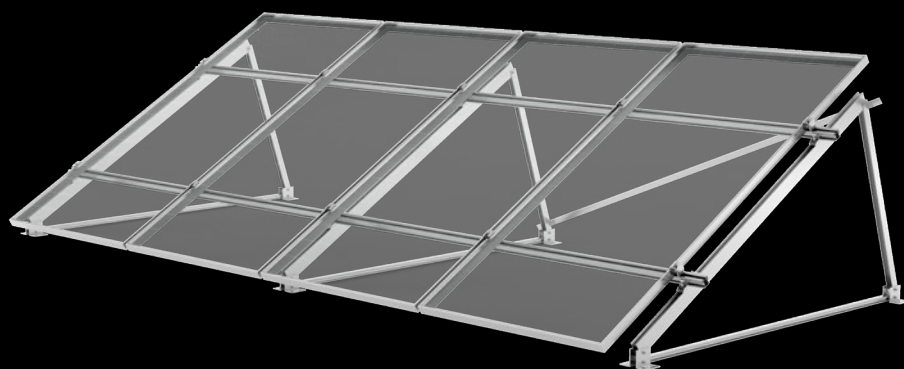
FD3-S Premium Line (2.)



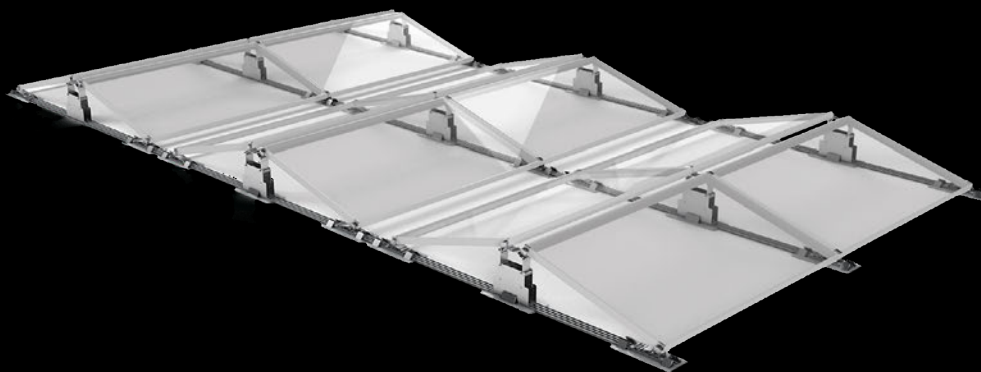
FD3-EW Premium Line (3.)



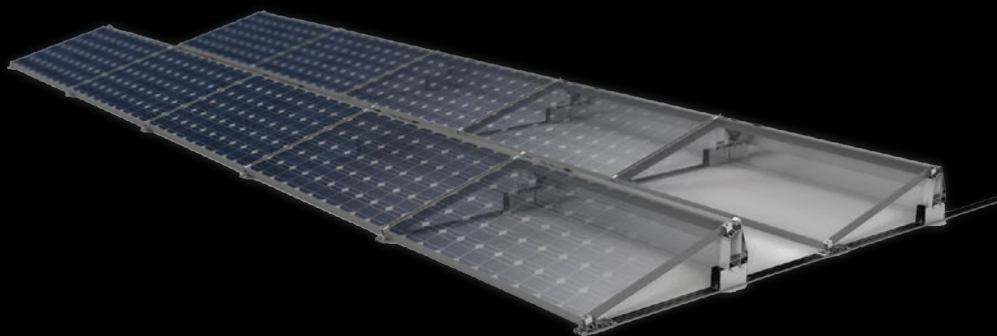
Trifix (4.)



Light-EW (5-6.)



Light-S (5-6.)



1. FD3 Universal Components



Distance Gauge FD3

Tool for setting the row spacing using the module length

	Item No.	SU	Pallet	Ref. No.
Distance Gauge FD3	712-0281	1	-	712-0281



Connecting Member

For beginning of each new separated row (FD3-S/-EW); ending of the last row in FD3-EW system

Dimensions:	250 x 73.6 x 51.6 mm (L x W x H)
Weight:	0.431 kg
Material:	EN AW-6063 T66

	Item No.	SU	Pallet	Ref. No.
Connecting Member 250 mm	720-1915	20	50	600-0365



Front Support

To accommodate lower PV module edge; to accommodate rear wind deflector for south-facing system

Dimensions:	53 x 89 x 34 mm (L x W x H)
Weight:	0.110 kg
Material:	Zamak ZP2 - ZP0430

	Item No.	SU	Pallet	Ref. No.
Front support	720-1874	20	243	814-0703



Universal Middle Support 10°/15°

To accommodate upper PV module edge; to accommodate rear wind deflector for south-facing system

Transport Dimensions:	395 x 70 x 85 mm (L x W x H)
Weight:	1.096 kg
Material:	Zamak ZP5 - ZP0410

	Item No.	SU	Pallet	Ref. No.
Support flat roof 10°/15°	720-1873	10	32	711-0260



Ball Locking Pin Ø 6 x 50

To lock the middle support in desired position (10°/15°).

Dimensions:	59.8 x 6 x 6 mm (w/o ring) (L x W x H)
Weight:	0.016 kg
Material:	1.4301

	Item No.	SU	Pallet	Ref. No.
Ball locking pin 6x50 mm	720-1892	50	576	807-0351

1. FD3 Universal Components



End Clamp

To attach the most outer PV module in row to the system

Dimensions: 53 x 40 x 61 + 71 mm (L x W x H)
 Weight: 0.059 kg
 Material: EN AW-6063 T6. A2-70



	Item No.	SU	Pallet	Ref. No.
End clamp 30-40mm	720-1855	20	288	702-0478
End clamp 40-50mm	720-1856	20	288	702-0479



Middle Clamp

To attach PV modules to the system

Dimensions: 34 x 40 x 61 + 71 mm (L x W x H)
 Weight: 0.031 kg
 Material: EN AW-6063 T6. A2-70

	Item No.	SU	Pallet	Ref. No.
Middle clamp 30-40mm	720-1857	20	288	700-0273
Middle clamp 40-50mm	720-1858	20	288	700-0274



Universal Ballast Tray

To accomodate desired amount of ballast
 (e.g. stones, gravel, etc.)

Dimensions: 383 x 55 mm (W x H)
 Material: AW EN 6063 T66

Length	Item No.	SU	Pallet	Ref. No.
1831mm	720-1934	10	10	801-0386
2037mm	720-1935	10	10	801-0387
2171mm	720-1936	10	10	801-0388
2327mm	720-1932	10	10	801-0384



Rubber Pad

Protection for the roof surface

Length: 250 mm
 Material: TPV (EPDM-PP)

	Item No.	SU	Pallet	Ref. No.
Rubber pad; 250mm	720-1921	20	40	814-0704



Base Rail South

To accommodate front and middle supports in south-facing system

Dimensions: 66 x 47.5mm (W x H)
 Weight: 0.695 kg/m
 Material: EN AW-6063 T66

Length	Item No.	SU	Pallet	Ref. No.
10°; 1408mm	720-1871	10	25	600-0372
15°; 1265mm	720-1872	10	38	600-0376



Connecting Profile South

Ending of the last row in south-facing system

Dimensions: 585 x 73.6 x 51.6 mm (L x W x H)
 Weight: 0.726 kg
 Material: EN AW-6063 T66

Length	Item No.	SU	Pallet	Ref. No.
585mm	720-1918	10	60	600-0371



Connecting Profile South

To connect rows with each other in south-facing system

Dimensions: 73.6 x 51.6 mm (W x H)
 Weight: 0.88 kg/m
 Material: EN AW-6063 T66

Length	Item No.	SU	Pallet	Ref. No.
10°; 1025mm	720-1917	10	25	600-0370
15°; 1293mm	720-1919	10	30	600-0374
15°; 1475mm	720-1926	10	30	600-0375



Rail Cover South

To protect and cover the cables, being routed through the rails

Dimensions: 78.7 x 14.23mm (W x H)
 Weight: 0.388 kg/m
 Material: EN AW-6063 T66

Length	Item No.	SU	Pallet	Ref. No.
10°; 370mm	720-1863	20	122	600-0373
15°; 885mm	720-1864	20	46	600-0377
15°; 710mm	720-1865	20	51	600-0378



Adapter Wind Deflector

To accommodate wind deflector on middle support in south-facing system

Dimensions: 91 x 40 x 39 mm (L x W x H)
 Weight: 0.081 kg
 Material: EN AW-6063 T66

Length	Item No.	SU	Pallet	Ref. No.
40mm	720-1882	20	162	600-0361



Screws & Washer

To attach wind deflector to the front and middle support in south-facing system

Material: A2

	Item No.	SU	Pallet	Ref. No.
Screw f. metal 5.5x13	720-1883	50	85	806-0520
Allen bolt M6x16	720-1884	50	192	806-0340
Allen bolt M6x35/24	720-1899	50	50	806-0321
Washer M6	720-1885	50	288	807-0315



Rear Deflector

To ensure proper south-facing system aerodynamics

Dimensions: 235 x 84 mm (W x H)
 Material: DX 51 + ZM310

Length	Item No.	SU	Pallet	Ref. No.
1861mm	720-1866	10	30	801-0376
2066mm	720-1867	10	24	801-0377
2200mm	720-1868	10	24	801-0378
2384mm	720-1933	10	24	801-0385



Side Deflector South

To ensure proper south-facing system aerodynamics

10° Dimensions: 1337 x 39 x 39 mm (L x W x H)
 15° Dimensions: 1210.5 x 39 x 39 mm (L x W x H)
 10° Weight: 0.867 kg
 15° Weight: 1.006 kg
 Material: DX 51 + ZM310

	Item No.	SU	Pallet	Ref. No.
10° Right	720-1860	10	60	801-0370
15° Right	720-1862	10	10	801-0372
10° Left	720-1859	10	60	801-0369
15° Left	720-1861	10	48	801-0371

Base Rail East-West

To accommodate front and middle supports in EW-facing system



Dimensions:	73.6 x 71.6 mm (W x H)
Weight:	1.993 kg/m
Material:	EN AW-6063 T66

Length	Item No.	SU	Pallet	Ref. No.
Base rail EW; 2147 mm; pre-ass.	720-1920	10	30	600-0368
Base rail EW XL; 2287 mm; pre-ass.	720-1922	10	25	600-0380

Connecting Member East-West

To connect rows with each other in EW-facing system



Dimensions:	800 x 73.6 x 71.6 mm (L x W x H)
Weight:	1.126 kg
Material:	EN AW-6063 T66

	Item No.	SU	Pallet	Ref. No.
Connecting member EW; 800mm	720-1916	10	35	600-0366

Rail Cover East-West

To protect and cover the cables, being routed through the rails



Dimensions:	430 x 78.7 x 14.23 mm (L x W x H)
Weight:	0.167 kg
Material:	EN AW-6063 T66

Length	Item No.	SU	Pallet	Ref. No.
430mm	720-1870	20	67	600-0369

Side Deflector East-West

To ensure proper EW-facing system aerodynamics



Dimensions:	27 x 185 mm (W x H)
Weight:	1.263 kg
Weight XL:	1.343 kg
Material:	DX 51 + ZM310

Length	Item No.	SU	Pallet	Ref. No.
2135mm	720-1869	10	36	801-0367
XL; 2269mm	720-1924	10	36	801-0381

SolarFix

Optional fixing variant without ballasting



	Item No.	SU	Pallet	Ref. No.
SolarFix Non/fixed	720-1969	12	-	814-0742
SolarFix 12mm	720-1942	12	-	814-0730
SolarFix PVC Coated	720-1960	12	-	814-0739
SolarFix PVC Cover	720-1974	12	-	814-0753
SolarFix PVC Rosette	720-1993	12	-	814-0751
SolarFix Bitumen Cover	720-1977	12	-	814-0750
SolarFix Bitumen Rosette	720-1989	12	-	814-0757
SolarFix EPDM Rosette (ver. Amer)	720-1979	12	-	814-0752

**Telescopic Rail**

Connecting rail for the FD3 with SolarFix

	Item No.	SU	Pallet	Ref. No.
Telescopic rail	720-1931	6	-	710-0302

SolarFix Screws

	Item No.	SU	Pallet	Ref. No.
Wood and Steel: 4,8 x 140mm	720-1943	500	-	720-1943
Wood and Steel: 4,8 x 90mm	720-1945	500	-	720-1945
Wood and Steel: 4,8 x 60mm	720-1946	500	-	720-1946
Wood and Steel: 4,8 x 240mm	720-1949	500	-	720-1949
Wood and Steel: 4,8 x 280mm	720-1950	500	-	720-1950
Wood and Steel: 6 x 330mm	720-1951	500	-	720-1951

SolarFix Anchoring Set

	Item No.	SU	Pallet	Ref. No.
Tool: Socket wrench	817-0423	1	-	817-0423
10x400mm	720-1944	50	-	720-1944
10x500mm	720-1959	50	-	720-1959

**SolarFix M10 Bolt Set**

	Item No.	SU	Pallet	Ref. No.
10x150mm	720-1947	50	-	720-1947

5. Triangles & Accessories

Material: Aluminium EN AW 6063 T6 (AlMg0.5Si)



Base Triangle 10°-45°

Article addition: Pre-assembled; manually adjustable in 5° steps;
Without cross rail connector

Length	Item No.	SU	Pallet	Ref. No.
Base Triangle; 1200mm	711-0258	1	120	711-0258
Base Triangle; 1700mm	711-0259	1	111	711-0259



Strut

Article addition: Pre-assembled; manually adjustable in 5° steps;
Without cross rail connector

Base Triangle 1200mm	Item No.	SU	Pallet	Ref. No.
Strut 10°; 242 mm	600-0337	1	300	600-0337
Strut 15°; 343 mm	600-0338	1	150	600-0338
Strut 20°; 445 mm	600-0339	1	312	600-0339
Strut 25°; 547 mm	600-0340	1	160	600-0340
Strut 30°; 648 mm	600-0341	1	155	600-0341
Strut 35°; 748 mm	600-0342	1	479	600-0342
Strut 40°; 846 mm	600-0343	1	155	600-0343
Strut 45°; 943 mm	600-0344	1	150	600-0344
Base Triangle 1700mm	Item No.	SU	Pallet	Ref. No.
Strut 10°; 327 mm	600-0345	1	167	600-0345
Strut 15°; 473 mm	600-0346	1	158	600-0346
Strut 30°; 906 mm	600-0349	1	151	600-0349
Strut 35°; 1048 mm	600-0350	1	150	600-0350
Strut 45°; 1325 mm	600-0352	1	154	600-0352

5. Triangles & Accessories

Material: Aluminium EN AW 6063 T6 (AlMg0.5Si)



Triangle 15°

Article addition: Without cross rail connector

Variant 2 portrait / 4 landscape: 3050mm
Variant 3 portrait 4986mm

	Item No.	SU	Pallet	Ref. No.
Triangle 15° for 2 land / 4 portrait	711-0271	1	-	711-0271
Triangle 15° for 3 portrait	711-0272	1	-	711-0272



Strut Triangle 30x3

Dimensions: 30 x 3 x 1895mm (L x W x H)
Weight: 0.46 kg

	Item No.	SU	Pallet	Ref. No.
Strut triangles 30 x 3 mm	612-0629	1	200	612-0629
Drilling screw 4.2 x 16 mm	720-1836	100	100	806-0012



Cross Rail Connector Outer Click

Fixation of the top rail layer on triangles

	Item No.	SU	Pallet	Ref. No.
Cross rail connector OCII, Galvanized screw	721-0350	20	288	706-0202



Metal Wall Plug

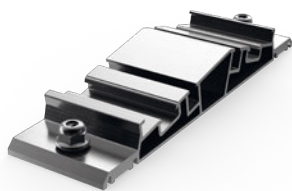
To secure the triangles in concrete substructures

	Item No.	SU	Pallet	Ref. No.
Metall wall plug M10 x 110	807-0111	50	243	807-0111

6. Low ballasted system

Front Foot

Front foot as well as connector of the ground rails, pre-assembled, Black side shows the 15° degree



Material: Aluminium (EN AW 6063 T66), stainless steel

	Item No.	SU	Pallet	Ref. No.
Front foot 10°/ 15°, pre-ass.	720-1720	10	96	711-0152

Central Support for East-West

2 variants depending on the inclination angle, pre-assembled



Material: Aluminium (EN AW 6063 T66), stainless steel

	Item No.	SU	Pallet	Ref. No.
Central support 10°, pre-ass.	711-0156	1	216	711-0156
Central support 15°, pre-ass.	711-0157	1	144	711-0157

Back Support for South

2 variants depending on the inclination angle, pre-assembled



Material: Aluminium (EN AW 6063 T66). Stainless steel

	Item No.	SU	Pallet	Ref. No.
Back support 10°, pre-ass.	711-0253	1	525	711-0253
Back support 15°, pre-ass.	711-0251	1	216	711-0251

Front Foot for LightX

Front foot as well as connector of the ground rails, pre-assembled, Black side shows the 15° degree



Material: Aluminium (EN AW 6063 T66), stainless steel

	Item No.	SU	Pallet	Ref. No.
Front foot 10°/ 15°, pre-ass.	720-1962	10	96	711-0262

Back Support for LightX

Central or rear support for south or east-west orientation for 1134mm wide modules



Material: Aluminium (EN AW 6063 T66). Stainless steel

	Item No.	SU	Pallet	Ref. No.
Hintere Stütze, 10° XL, 60mm, vm	720-1963	10	-	711-0261

6. Low ballasted system



Ground Rails for South

Construction underneath the supports & conjunction of system

Material:	Aluminium (EN AW 6063 T66). Stainless steel (V2A/1.4301)
Dimensions:	66 x 10.7 mm (W x H)
Weight:	0.419 kg/m

Length	Item No.	SU	Pallet	Ref. No.
60 mm; Begin	720-1719	20	576	610-0743
1360 mm; End	720-1744	10	150	610-0747
1450 mm; Light-S 10°	720-1742	10	150	610-0746
1710 mm; Light-S 15°	720-1743	10	150	610-0748
410 mm; Light-EW 10-15°	720-1745	20	240	610-0744
1915 mm; Light-EW 10-15°	720-1741	10	150	610-0751
2393 mm; for 1134 mm Modules	720-1967	10	-	610-0133



Back Sheet for South

Material:	Galvanized steel
Length:	1.704 m for modules till 1.65 m length 2.023 m for modules till 2.00 m length

	Item No.	SU	Pallet	Ref. No.
Sheet 237 mm 10°; 0.6 mm; 1.704 m	801-0357	1	50	801-0357
Sheet 237 mm 10°; 0.6 mm; 2.023 m	801-0358	1	300	801-0358
Sheet 323 mm 15°; 0.6 mm; 1.704 m	801-0354	1	50	801-0354
Sheet 323 mm 15°; 0.6 mm; 2.023 m	801-0356	1	50	801-0356



Clamping Claw

For fixation of the back sheet to the ground rail

Material:	Aluminium (EN AW 6063 T66) Stainless steel (V2A/1.4301)
-----------	--

	Item No.	SU	Pallet	Ref. No.
Clamping claw, pre-ass.	720-1634	20	288	711-0155



Back Sheet Clamp

For fixation of the back sheet on top of the support

Material:	Aluminium (EN AW 6063 T66) Stainless steel (V2A/1.4301)
-----------	--

	Item No.	SU	Pallet	Ref. No.
Back sheet clamp, pre-ass.	720-1668	20	576	711-0252

Additional Ballast Plate

Ballast profile for additional ballast stones

Optimized for stone plates 300 x 300 x 40 mm



Material: Aluminium (EN AW 6063 T66)
 Dimensions: 164 x 30 mm (W x H)
 Weight: 0.935 kg/m

Length	Item No.	SU	Pallet	Ref. No.
80 mm	720-1672	20	96	610-0830

Additional Ballast L-Profile

Ballast L-profile for additional ballast whole modules length



Material: Aluminium (EN AW 6063 T66)
 Dimensions: 50 x 40 mm (W x H)
 Material Thickness: 3 mm
 Weight: 0.706 kg/m

Length	Item No.	SU	Pallet	Ref. No.
1.74 m	601-0200	1	-	601-0200
1.77 m	601-0209	1	710	601-0209
1.82 m	601-0213	1	600	601-0213
2.03 m	601-0205	1	212	601-0205
2.05 m	601-0208	1	600	601-0208
2.20 m	601-0214	1	652	601-0214

T-Head Bolt & Locking Nut

For fixing L-bracket and ballast profile to ground rail



Material: Stainless steel (V2A/1.4301)

	Item No.	SU	Pallet	Ref. No.
Hexagon locking nut M8	720-1640	20	2400	807-0164
T-head bolt M8 x 20	720-1637	20	1500	806-0313

Building Protection Mat

Layer for the protection of the roof surface



Cut to 370 x 150 x 8 mm with fixation flaps
 Draw from the data sheet of the roof surface,
 which type of building protection mat is suitable

	Item No.	SU	Pallet	Ref. No.
Building protection mat standard	720-1693	50	24	814-0566
Building protection mat foiled	720-1692	50	24	814-0560



Module Support Clamp Flat Roof PLUS

For the fixation of a top rail layer on the supports
for clamping on the modules

Material:

Aluminium (EN AW 6063 T66)

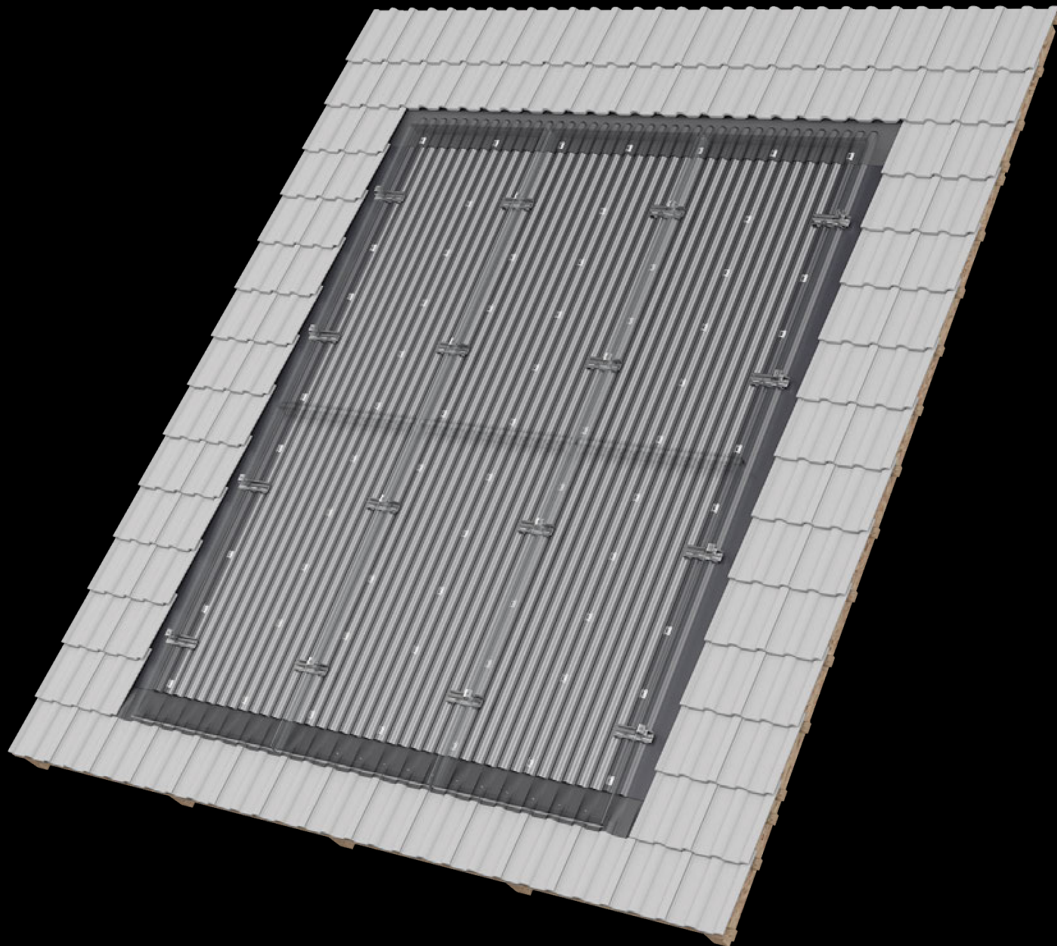
Screw: Stainless steel (V2A/1.4301)

	Item No.	SU	Pallet	Ref. No.
Module Support Clamp 60 mm, pre-ass.	720-1717	20	576	711-0129

In-Roof

1. [Adapter](#)
2. [Sheets](#)
3. [Accessories](#)

Infix



The semi-integrated in-roof PV mounting system is easy to assemble and variable in design thanks to Clickstone technology. Our design software automatically provides parts lists. The multiple adapter connections guarantee a high level of safety even in snowy regions thanks to an optimal force transmission. The system is corrosion-resistant and of course pre-assembled.

1. Adapter

Material: Aluminium (EN AW 6063 T66)

Short Adapter for Landscape Installation

For landscape installation of the module



Dimensions: 161 x 29 x 100 mm (W x H x L)
Weight: 0.178 kg

	Item No.	SU	Pallet	Ref. No.
Short adapter for landscape installation, with EPDM	720-1715	10	96	712-0257

Long Adapter for Landscape Installation

For landscape installation of the module



Dimensions: 161 x 29 x 390 mm (W x H x L)
Weight: 0.673 kg

	Item No.	SU	Pallet	Ref. No.
Long adapter for landscape installation, with EPDM	720-1714	10	40	712-0258

Adapter for Portrait Installation

For portrait installation of the module



Dimensions: 56 x 40 x 210 mm (W x H x L)
Weight: 0.301 kg

	Item No.	SU	Pallet	Ref. No.
Adapter for portrait installation, with EPDM	720-1713	10	96	712-0256



2. Sheets

Material: Aluminium (EN AW 3005)



Corrugated Metal Sheet

Type of corrugation 18/76

Dimensions: 1067 x 1500 x 0.8 mm (W x H x L)
Weight: 4.21 kg/Stück

	Item No.	SU	Pallet	Ref. No.
Corrugated Metal Sheet	801-0031	1	50	801-0031

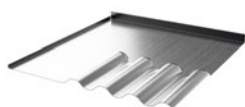


Top Flashing

For a smooth transition between
the top module field and the roof covering



	Item No.	SU	Pallet	Ref. No.
Top flashing with corrugations and upstand; 969 mm	801-0054	1	50	801-0054
Top flashing with corrugations and upstand; 969 mm, black	801-0360	1	50	801-0360



Corner Flashing

For a smooth transition between the corner
of the module field and the roof covering



	Item No.	SU	Pallet	Ref. No.
Corner flashing, left	801-0048	1	50	801-0048
Corner flashing, left, black	801-0362	1	50	801-0362
Corner flashing, right	801-0049	1	50	801-0049
Corner flashing, right, black	801-0363	1	50	801-0363



Lateral Flashing

For a smooth transition between the module
field and the roof covering on either side

	Item No.	SU	Pallet	Ref. No.
Side plate with two shafts and upstand; 2 m	801-0047	1	50	801-0047
Side plate with two shafts and upstand; 2 m; black	801-0361	1	50	801-0361

3. Accessoires



JT3-2 – 6.5 x 65 mm E16/2.0

Fixing adapters to the roof

With drill bit

	Item No.	SU	Pallet	Ref. No.
JT3-2 – 6.5 x 65 mm E16/2.0	720-1735	100	576	806-0175



Roofing Screw 4.5 x 45 mm with 15 mm Washer A2

Fixing corrugated metal sheets and lateral flashings to the roof (in connection with calottes or fixing clip)

With drill bit

	Item No.	SU	Pallet	Ref. No.
Roofing screw 4.5 x 45 mm with 15 mm washer A2	720-0525	100	576	806-0208



Fixing Clip

Fixing the upper and lateral flashings

For the connecting of the fixing clip,
1 roofing screw 4.5 x 45 mm is required

	Item No.	SU	Pallet	Ref. No.
Fixing clip	720-1968	50	576	814-0741

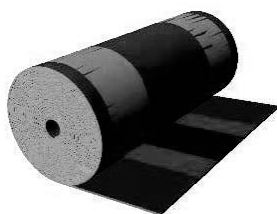


Calotte

Additional fixing points of the corrugated metal sheets

For connecting of the calotte, a roofing screw 4.5 x 45 mm is required

	Item No.	SU	Pallet	Ref. No.
Calotte	720-0544	100	162	807-0112



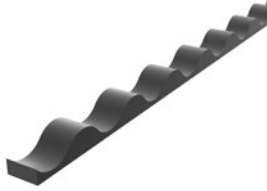
MetallRoll

Ensuring a watertight transition between module field and the tiles below

2 adhesive strips

Side strips made out of corrugated aluminium, Colour coated with acrylic varnish, aluminium expanded metal, polyethylene film (PE), non-woven polypropylene (PP), HDPE cover strips and butyl adhesive beads.

	Item No.	SU	Pallet	Ref. No.
MetallRoll, 320 mm, red	814-0309	1	-	814-0309
MetallRoll, 320 mm, black	814-0316	1	-	814-0316



Profile Filler

Lining the lower edge of the corrugated metal sheet

	Item No.	SU	Pallet	Ref. No.
Profile filler 1064 mm	814-0048	1	400	814-0048



Tree-Foam Profile Filler

Lining the upper tiles – optional

	Item No.	SU	Pallet	Ref. No.
Tree-foam profile filler 795 mm	809-0050	1	54	809-0050



Triangular Foam Filler

Lining the tiles adjoining the module field – optional

Self-adhesive

	Item No.	SU	Pallet	Ref. No.
Adhesive seal 1000mm, taper height 60mm	814-0310	1	-	814-0310



Butyl Strip

Additional sealing for vertical overlaps of the flashings – optional

	Item No.	SU	Pallet	Ref. No.
Butyl strip 20 x 1.5 x 500mm, black	814-0323	1	-	814-0323



Double-Sided Adhesive Tape

Double-Sided Adhesive Tape for Foams

Length: 5m
Width: 15mm

	Item No.	SU	Pallet	Ref. No.
Double-sided adhesive tape	809-0053	1	-	809-0053



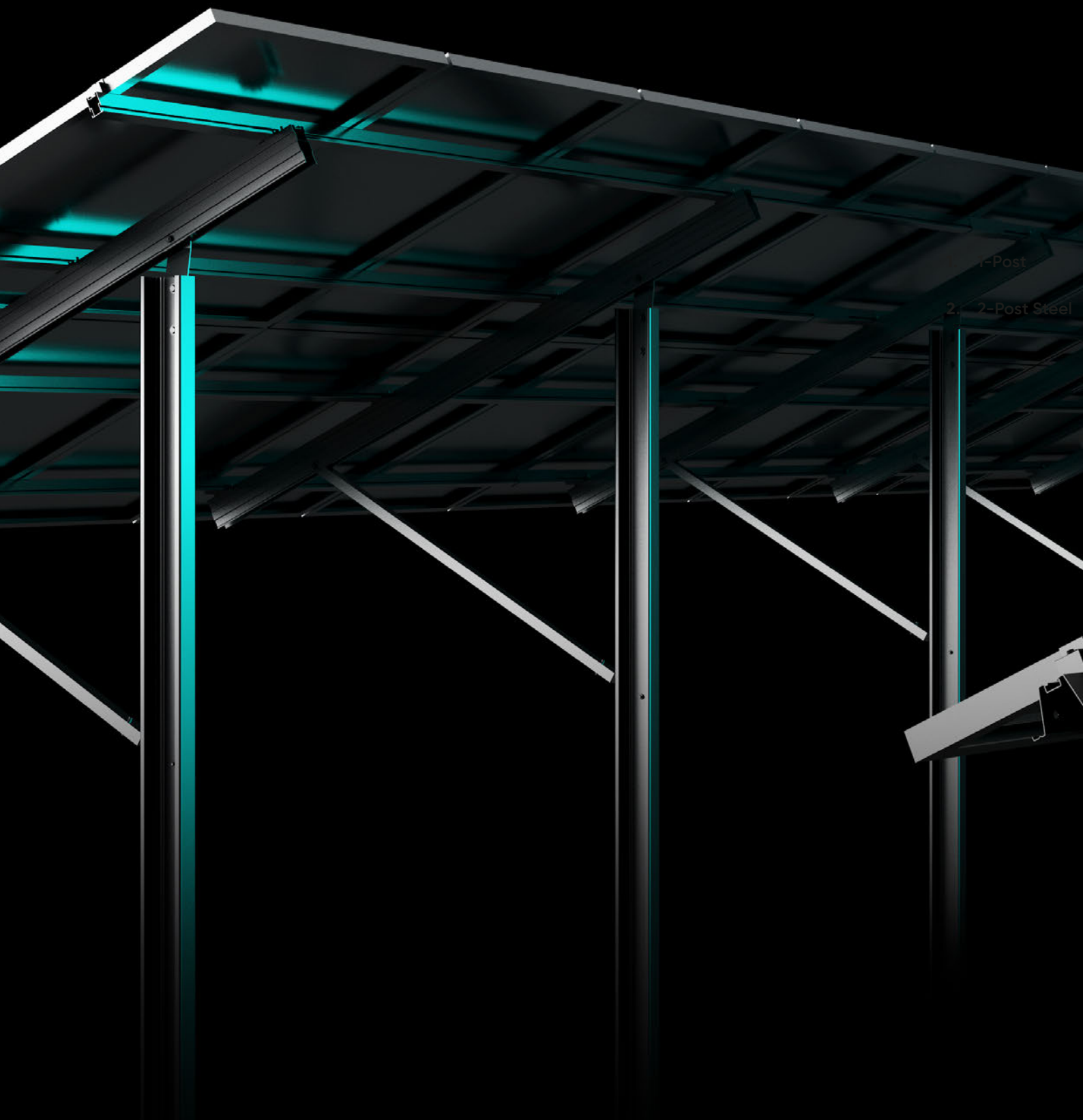
Mounting Aid

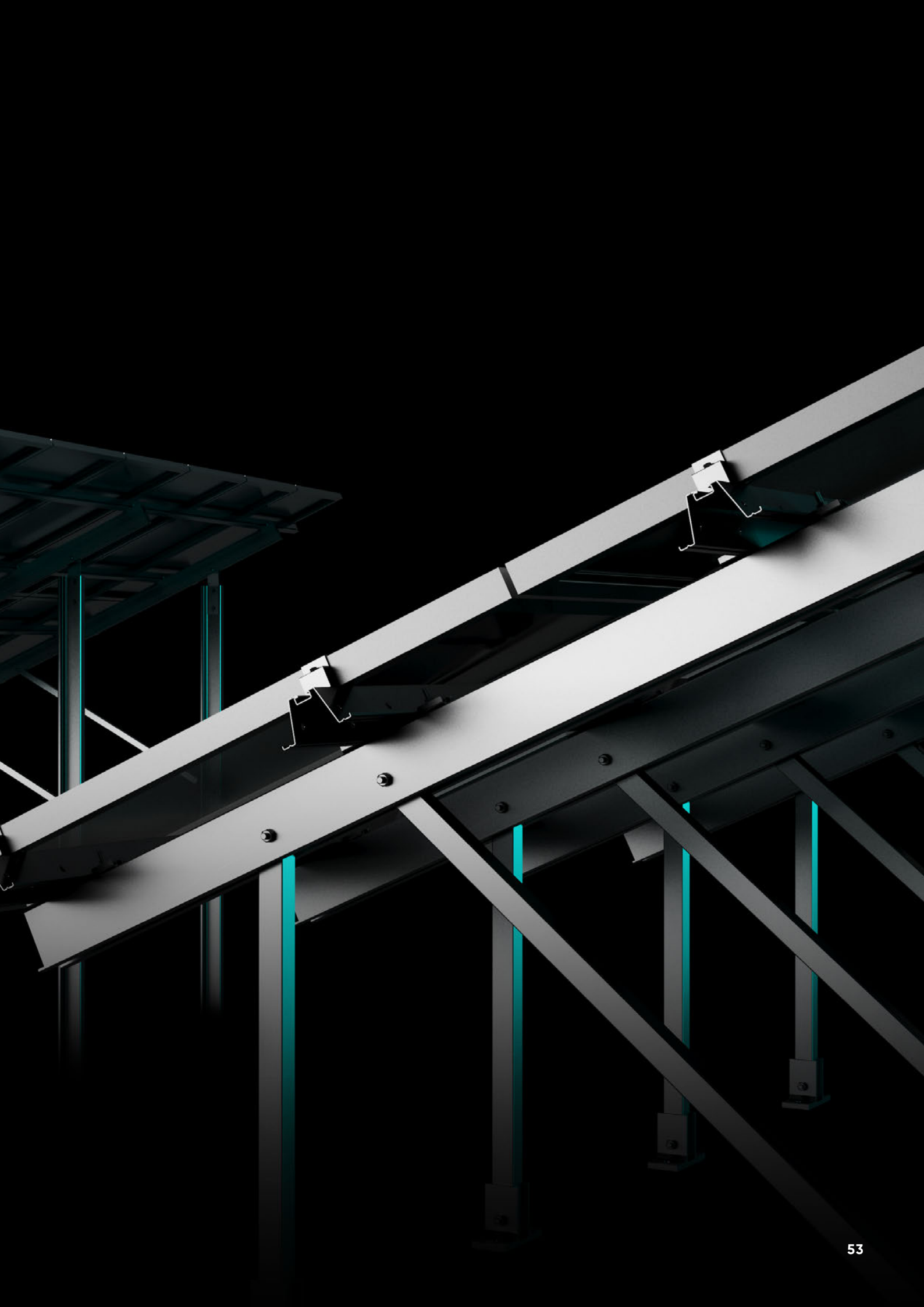
Facilitating the installation of the corrugated metal sheets

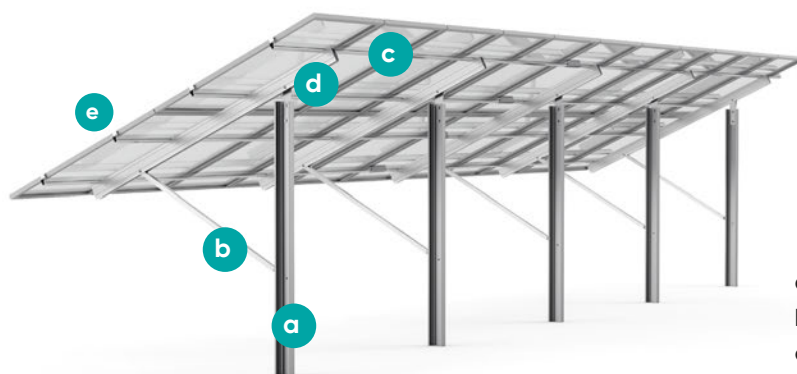
	Item No.	SU	Pallet	Ref. No.
Mounting aid	720-0420	10	-	814-0043

Ground Mount

1. 1-Post
2. 2-Post Steel







- a Ramming posts
- b Fixing plates
- c Module support
- d Rafter
- e Module (end) clamp

Configuration	Modules	Module inclination	Foundation	Clamping
2x Portrait	Framed modules	20° 30°	- Ramming posts - In-Cast	Clickstone-System



C-Posts

For foundation with ramming post as well as In-Cast

Material:	Steel S355
Weight:	23.23 kg
Dimensions:	150 x 70 x 2800 mm (W x H x L)

	Item No.	SU	Pallet	Ref. No.
C-Post 2.8m	814-0696	1	-	814-0696



Rafter

Material:	Aluminium (EN AW 6063 T66)
Weight:	6.83 kg
Dimensions:	150 x 53.4 x 2800 mm (W x H x L)

	Item No.	SU	Pallet	Ref. No.
Rafter 150 x 53.4mm CS; 2.7m	616-0365	1	-	616-0365



Adapter Rafter

Connection between the post and the rafter with 2 adapters each

Material:	Steel S355 JR. > 720h VL
Weight:	0.832 kg

	Item No.	SU	Pallet	Ref. No.
Adapter Rafter	814-0533	1	-	814-0533

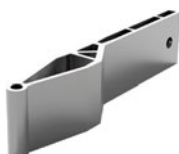


Strut

Support of the front part of rafter

Material: Aluminium (EN AW 6063 T66)
 Dimensions: 40x60mm (W x H)
 Weight: 1.406 kg/m

Length	Item No.	SU	Palett	Ref. Nr.
1.356m; 20°	616-0366	1	-	616-0366
1.254m; 30°	616-0367	1	390	616-0367



Adapter Strut

Conection between the post and the strut

Material: Aluminium (EN AW 6063 T66)

	Item No.	SU	Pallet	Ref. No.
Adapter Strut	616-0225	1	-	616-0225



Module Support 28/65 CS + HK

Material: Aluminium (EN AW 6063 T66)
 Dimensions: 50x65mm (W x H)
 Weight: 1.378 kg/m

Length	Item No.	SU	Pallet	Ref. No.
5.15 m	800-0094	1	-	800-0094
3.15 m	800-0095	1	-	800-0095



Connector Set 28/65

Connection Set with 4 connectors incl. screws

Material: Aluminium (EN AW 6063 T66)

	Item No.	SU	Pallet	Ref. No.
Connector Set 28/65	720-1602	1	-	720-1602



Module support clamp Open Terrain

Connection of the module supports onto the rafter (2 Pieces / Cross point)

Material: Aluminium (EN AW 6063 T66)
 T-head bolt: Stainless steel (V2A/1.4301)

	Item No.	SU	Pallet	Ref. No.
Module support clamp, pre-ass.	720-1655	20	576	717-0034

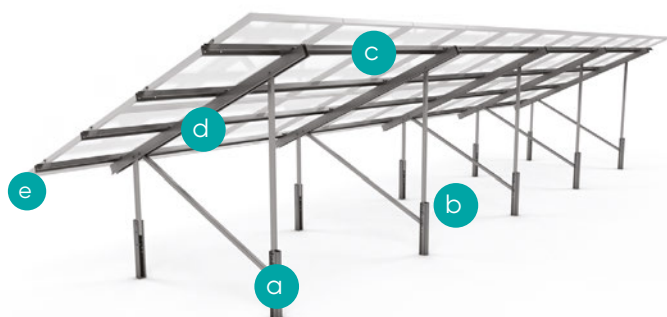


Fixation Box 1-Post

Set with all small parts for one rafter unit

Material: Stainless steel (V2A/1.4301)

	Item No.	SU	Pallet	Ref. No.
Fixation Box 1-Post	720-1603	1	164	720-1603



- a Ramming posts
- b Fixing plates
- c Module support
- d Rafter
- e Module (end) clamp

Configuration	Module	Module inclination	Foundation	Clamping
• 2x Portrait • 3x Landscape • 4x Landscape	Framed modules	• 20° • 25°	• Ramming posts • In-Cast • Foot plates	Clickstone-System

Leg and Diagonal



Material: S350 GD + ZM 310 MA
 Dimensions: 40 x 40mm (W x H)
 Weight: 1.813kg/m

	Item No.	SU	Pallet	Ref. No.
Leg front 770mm	821-0002	1	-	821-0002
Leg back, diagonal 1608mm	821-0003	1	-	821-0003
Leg back, diagonal 2029mm	821-0004	1	-	821-0004
Leg back, diagonal 1425mm	821-0011	1	-	821-0011
Leg back, diagonal 1753mm	821-0012	1	-	821-0012

Rafter



Material: S350 GD + ZM 310 MA
 Dimensions: 83 x 100mm (W x H)
 Weight: 3.843kg/m

	Item No.	SU	Pallet	Ref. No.
Rafter 2800mm	821-0006	1	-	821-0006
Rafter 3200mm	821-0007	1	-	821-0007
Rafter 4300mm	821-0008	1	-	821-0008



Module Support

Material: S350 GD + ZM 310 MA
 Dimensions: 112.7 x 60 mm (W x H)
 Weight: 2.942 kg/m

	Item No.	SU	Pallet	Ref. No.
Module support 6.20m	821-0009	1	-	821-0009
Module support 3.10m	821-0010	1	-	821-0010



Module Support Clamp

Material: S350 GD + ZM 310 MA
 Dimensions: 40 x 12 mm (W x H)

	Item No.	SU	Pallet	Ref. No.
Module Support Clamp	720-1792	50	162	814-0658



Inter-Module Clamp for Steel

Incl. small parts (pre-assembled): 1 stainless steel hexagon socket screw M6
 1 O-ring, polymer

	Item No.	SU	Pallet	Ref. No.
Module clamp 30-38 mm	720-1795	50	162	700-0139
Module clamp 39-50 mm	720-1796	50	162	700-0140



Module-End Clamp for Steel

Incl. small parts (pre-assembled): 1 Stainless steel hexagon socket screw M6

	Item No.	SU	Pallet	Ref. No.
Universeller module-end clamp 30-40 mm	720-1828	10	576	702-0476
Universeller module-end clamp 40-50 mm	720-1849	10	576	702-0477



Connector

Material: S350 GD + ZM 310 MA
 Dimensions: 44 x 69 mm (W x H)
 Weight: 1.1kg/Stück

	Item No.	SU	Pallet	Ref. No.
Connector 0.40m	821-0013	1	-	821-0013



Rocker Stone

Material: Aluminium (EW AM 6063 T66)



	Item No.	SU	Pallet	Ref. No.
Rocker Stone 30 mm	720-1793	100	288	616-0252
Rocker Stone 175 mm	720-1794	50	96	616-0253



Foot Plate

For the foundation with concrete foundations

Material: Aluminium (EW AM 6063 T66)
 Height: 103 mm
 Weight: 8.336 kg/m



	Item No.	SU	Pallet	Ref. No.
Foot Plate 160 x 139 mm	616-0370	1	560	616-0370
Foot Plate 160 x 60 mm; 1 Hole	616-0369	1	-	616-0369



Bracing AlMg FI

Material: Aluminium (EW AM 6063 T66)
 Dimensions: 3 x 30 mm (W x H)
 Weight: 0.243 kg/m

	Item No.	SU	Pallet	Ref. No.
AlMg FI 3.40m	800-1357	1	-	800-1357
AlMg FI 3.60m	800-1358	1	-	800-1358



Cap Profile 2.00m

Material: Steel S355
 Dimensions: 48 x 80.5 mm (W x H)
 Weight: 5.322 kg/m

	Item No.	SU	Pallet	Ref. No.
Cap Profile 2.00m	821-0001	1	-	821-0001

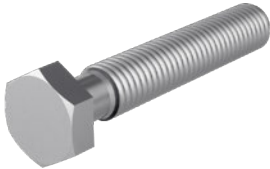


T-head bolt

Material:

Stainless steel (1.4301/ V2A)

	Item No.	SU	Pallet	Ref. No.
T-head bolt M8x40	720-1784	100	576	806-0351



Hex Screw M10

Material:

Steel; DIN933; Zinc-Lamella coating

	Item No.	SU	Pallet	Ref. No.
Hex Screw M10 x 65	720-1785	100	288	806-0382
Hex Screw M10 x 70	720-1783	100	288	806-0506
Hex Screw M10 x 25	720-1786	100	576	806-0469



Washer

Material:

Steel/Zinc-Lamella coating

	Item No.	SU	Pallet	Ref. No.
Washer M8	720-1787	100	505	807-0026
Washer M10	720-1790	400	232	807-0192



Hex Nut

Material:

Stainless Steel (1.4301/V2A)

	Item No.	SU	Pallet	Ref. No.
Hex Nut M8	720-1788	100	340	807-0165
Hex Nut M10	720-1789	200	576	807-0191



Fixed Anchor M12x110

Material:

Stainless steel (1.4401/A4)

Dimensions:

110 x 19 x 19mm (L x W x H)

Weight:

0.115kg

	Item No.	SU	Pallet	Ref. No.
Fixed Anchor M12x110 DBL-(W-FAZ/A4)	720-1691	6	576	807-0195



Drainage Plate

Dimensions:

40 x 40 x 2mm (L x W x H)

Material:

Polymer

	Item No.	SU	Pallet	Ref. No.
Drainage Plate	720-1791	200	288	814-0577

Solarcarports

1. E-Port Home Single
2. E-Port Home Double
3. E-Port Home Premium
4. E-Port Vario S1 Industrial
5. E-Port Line Industrial







Dimensions (L x W x H)

Total: 6080 x 4245 x 2994 mm

Parking Space: 4060 x 2820 x 2230 mm

Colour

Black: RAL 9005



E-Port Home Single

Single PV-Carport

Article addition:

Includes all supports, angles, small parts, trapezoidal sheet metal and drainage gutters

	Item No.	SU	Pallet	Ref. No.
E-Port Home Single; landscape	821-0100	1	-	821-0100

Module Assembly Set Single Portrait

The set contains all parts for the portrait mounting of solar modules



- 24x Rail 5/40 for Portrait
- 96x Thin sheet metal screw
- 16x Module clamp
- 8x Module end-clamp

	Item No.	SU	Pallet	Ref. No.
Assembly Set Home Single; portrait; 33-45 mm	720-1831	1	-	720-1831
Assembly Set Home Single; portrait; 30-40 mm	720-1833	1	-	720-1833

Module Assembly Set Single Landscape

Set includes all parts for landscape mounting of solar modules



- 24x Rail 1/16 for Landscape
- 48x Thin sheet metal screw
- 16x Module clamp
- 8x Module end-clamp

	Item No.	SU	Pallet	Ref. No.
Assembly Set Home Double; landscape; 33-45 mm	720-1747	1	162	720-1747
Assembly Set Home Double; landscape; 30-40 mm	720-1829	1	162	720-1829



Dimensions (L x W x H)

Total: 6086 x 6345 x 2998mm

Parking Space: 3990 x 5250 x 2132mm

Colour

Black: RAL 9005



E-Port Home Double

Double PV-Carport

Article addition:

Includes all supports, angles, small parts, trapezoidal sheet metal and drainage gutters

	Item No.	SU	Pallet	Ref. No.
E-Port Home Double; landscape	821-0101	1	-	821-0101

Module Assembly Set Double Portrait

The set contains all parts for the portrait mounting of solar modules



- 24 x Rail 5/40 for Portrait
- 96 x Thin sheet metal screw
- 16 x Module clamp
- 8 x Module end-clamp

	Item No.	SU	Pallet	Ref. No.
Assembly Set Home Double; portrait; 33-45 mm	720-1832	1	-	720-1832
Assembly Set Home Double; portrait; 30-40 mm	720-1834	1	-	720-1834

Module Assembly Set Double Landscape

Set includes all parts for landscape mounting of solar modules



- 36 x Rail 1/16 for Landscape
- 72 x Thin sheet metal screw
- 24 x Module clamp
- 12 x Module end-clamp

	Item No.	SU	Pallet	Ref. No.
Assembly Set Home Double; landscape; 33-45 mm	720-1748	1	162	720-1748
Assembly Set Home Double; landscape; 30-40 mm	720-1830	1	162	720-1830



Dimensions (L x W x H)

Total: 5300 x 3760 x 2900 mm
 Parking Space: 4930 x 3390 x 2159 mm

Colour

Anthracite: RAL 7016



E-Port Home Premium

Single PV carport with LED lighting

Article addition:

Includes all supports, angles, small parts, trapezoidal sheet metal and drainage gutters

	Item No.	SU	Pallet	Ref. No.
E-Port Home Premium	821-0092	1	-	821-0092

Module Assembly Set Single Portrait

The set contains all parts for the portrait mounting of solar modules



- 24x Rail 5/40 for Portrait
- 96x Thin sheet metal screw
- 16x Module clamp
- 8x Module end-clamp

	Item No.	SU	Pallet	Ref. No.
Assembly Set Home Single; portrait; 33-45 mm	720-1831	1	-	720-1831
Assembly Set Home Single; portrait; 30-40 mm	720-1833	1	-	720-1833

Module Assembly Set Double Landscape

Set includes all parts for landscape mounting of solar modules



- 24x Rail 1/16 for Landscape
- 48x Thin sheet metal screw
- 16x Module clamp
- 8x Module end-clamp

	Item No.	SU	Pallet	Ref. No.
Assembly Set Home Double; landscape; 33-45 mm	720-1747	1	162	720-1747
Assembly Set Home Double; landscape; 30-40 mm	720-1829	1	162	720-1829



Dimensions (L x W x H)

Total : 6040 x 5350 x 3580 mm
 Parking Space : 6040 x 4850 x 2335 mm

Colour

- Standard: Zinc
- Anthracite: RAL 7016
- Other RAL Colours on request

**O Element**

Industrial Solarcarport

Colour	Item No.	SU	Pallet	Ref. No.
Galvanized	821-0093	1	-	821-0093
Anthracite	821-0099	1	-	821-0099

**L-Form**

Industrial Solarcarport

Colour	Item No.	SU	Pallet	Ref. No.
Galvanized	821-0223	1	-	821-0223
Anthracite	821-0222	1	-	821-0222

**Connection**

Industrial Solarcarport

Colour	Item No.	SU	Pallet	Ref. No.
Galvanized	821-0094	1	-	821-0094
Anthracite	821-0098	1	-	821-0098



Dimensions (L x W x H)

Total : 5960 x 6200 x 4010mm
 Parking Space : 5960 x 5150 x 2676mm

Colour

- Standard: Zinc
- Anthracite: RAL 7016
- Other RAL Colours on request

**E-Port Line**

Industrial Solarcarport

Colour	Item No.	SU	Pallet	Ref. No.
Galvanized	821-0218	1	-	821-0218
Anthracite	821-0219	1	-	821-0219

**L-Form**

Industrial Solarcarport

Colour	Item No.	SU	Pallet	Ref. No.
Galvanized	821-0220	1	-	821-0094
Anthracite	821-0221	1	-	821-0098



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