

Smart Systems
for Solar Power



Components Catalog

Mounting Systems

Updated: 15.09.2016

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Smart Systems
for Solar Power



IBC TopFix 200 Components

Roof Tiles

Roof Hook Alu-Vario S+

**item description**

for pan tiles, 3-way adjustable
height of outrigger: 40 - 55 mm
material: cast aluminium

item no.

6700100036

Roof Hook Alu-Mammut S+

**item description**

for pan tiles, 1-way height-adjustable
height of outrigger: 46 mm
material: cast aluminium

item no.

6700100038

Roof Hook Alu-Mammut SV+

**item description**

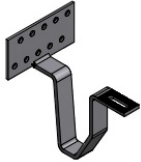
for pan tiles, 1-way height-adjustable
height of outrigger: 46 mm
material: cast aluminium

item no.

6700100039

Roof Tiles

Roof Hook Standard S+

**item description**

for pan tiles, 1-way height-adjustable
height of outrigger: 45 mm
material: stainless steel

item no.

6700100026

Roof Hook Standard S+ 35mm

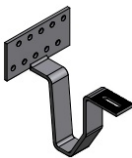
**item description**

for pan tiles, 1-way height-adjustable
height of outrigger: 35 mm
material: stainless steel

item no.

6700100032

Roof Hook Mammut S+

**item description**

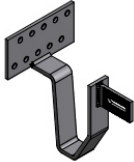
for pan tiles, 1-way height-adjustable
height of outrigger: 45 mm
material: stainless steel

item no.

6700100027

Roof Tiles

Roof Hook Mammut SV+

**item description**

for pan tiles, 1-way height-adjustable
height of outrigger: 45 mm
material: stainless steel

item no.

6700100028

Roof Hook Vario S+

**item description**

for pan tiles, 3-way adjustable
height of outrigger: 40 - 55 mm
material: stainless steel

item no.

6700100029

Roof Hook Plain Tile S+

**item description**

for plain tiles, 1-way height-adjustable
height of outrigger: 45 mm
material: stainless steel

item no.

6700100030

Roof Tiles

Roof Hook Slate S+



item description

for slated roofs, 1-way height-adjustable
material: stainless steel

item no.

6700100031

Roof Tiles

Roof Hook Mammut Form S+



item description

sheet form tiles with pre-assembled roof hook, 1-way height-adjustable, incl. screws

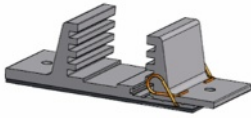
material: steel (hot-dip galvanised, powder-coated)

more types and colours available on request

item no.	tile typ	colour
6700700021	bitumen	anthracite
6700700022	plain tile	red brown
6700700023	plain tile	anthracite
6700700024	interlocking tile	red brown
6700700025	interlocking tile	anthracite
6700700026	flat pantile	red brown
6700700027	flat pantile	anthracite
6700700028	Frankfurter Pfanne	red brown
6700700029	Frankfurter Pfanne	anthracite
6700700030	Heidelberger	red brown
6700700031	Heidelberger	anthracite
6700700032	Taunus Pfanne	brick-red
6700700033	Tegalit	brick-red
6700700034	Tegalit	anthracite
6700700035	S-Pfanne	anthracite
6700700036	Harzer Pfanne	anthracite
6700700037	Cosmo	different colours
6700700038	Universo	different colours
6700700039	Harzer BIG	different colours
6700700040	Actua 10	different colours
6700700041	slate / metal shingle	different colours

Trapezoidal Sheet Metal

Trapezoidal Sheet Metal Clamp

**item description**

to fix on trapezoidal sheet metal, pre-assembled

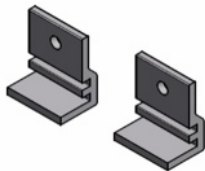
required accessories: optional 2x blind rivet or 2x self-drilling-screw (p.24)

material: aluminium, stainless steel, double-sided adhesive tape

item no.

6700200036

Positive-Locking-Clamp Set

**item description**

for fixation the support rail TF27-T on trapezoidal sheet metal clamp

required accessories: optional 2x blind rivet or 2x self-drilling-screw (p.24)

material: aluminium

item no.

6700300059

Trapezoidal Sheet Metal

Trapezoidal System Eco 340mm



item description

to fix on trapezoidal sheet metal, pre-assembled

required accessories: optional 4x blind rivet or 4x self-drilling-screw (p.24)

material: aluminium, double-sided adhesive tape

item no.

6700200037

Trapezoidal System Eco 420mm



item description

to fix on trapezoidal sheet metal, pre-assembled

required accessories: optional 4x blind rivet or 4x self-drilling-screw (p.25)

material: aluminium, double-sided adhesive tape

item no.

6700200038

Corrugated Eternit & Sandwich

Hanger Bolt



item description

to fix on timber substructures, pre-assembled
material: stainless steel A2, EPDM

item no.	designation	screw drive type
6700200001	M12x300	SW9
6700200026	M10x200	SW7

Solar Fastener

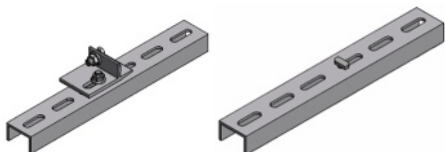


item description

to fix on steel substructures, pre-assembled
material: stainless steel A2, EPDM

item no.	designation	screw drive type
6700200018	8/M10x80/50	SW5
6700200019	8/M10x100/50	SW5
6700200020	8/M10x125/50	SW5
6700200021	8/M10x150/50	SW5
6700200022	8/M10x160/50	SW5
6700200023	8/M10x200/50	SW5

Mounting Plate Duo



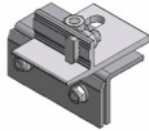
item description

to connect two hanger bolts / solar fasteners (to increase the load capacity), pre-assembled incl. universal connector or connection piece M10
material: aluminium, stainless steel

item no.	designation
6700300050	universal connector
6700300051	connection piece M10

Standing Seam & Kalzip®

Standing Seam Clamp



item description

to fix on standing seam, pre-assembled incl. universal connector, 1x hexagonal screw M10x30 A2, 2x hexagonal nut with lock toothing M10 A4, 1x T-head screw M10x25 A2

material: aluminium, stainless steel

item no.

6700200011

Original Kalzip® Clamp



item description

to fix on Kalzip® - standing seam, pre-assembled incl. universal connector, 1x hexagonal screw M10x20 A2, 2x hexagonal nut with lock toothing M10 A4, 1x T-head screw M10x25 A2

material: aluminium, stainless steel

item no.

6700200027

Delta-Support

Delta-Support, Single



item description

for elevation of modules, pre-assembled
incl. 3x hexagonal screw with lock tothing M8x50 A2,
3x locknut M8 A4, 3x alu-rounded-profile Ø12x1.5
material: aluminium, stainless steel

item no.	inclination	
6100300024	10°	
6100300025	15°	
6100300026	20°	
6100300027	25°	
6100300028	30°	
6100300029	35°	
6100300030	40°	
6100300031	45°	

Delta-Support, Continuous



item description

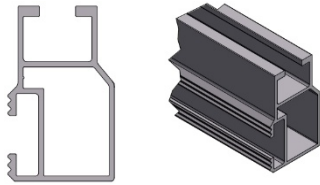
for elevation of modules, pre-assembled
incl. 3x hexagonal screw with lock tothing M8x50 A2,
3x locknut M8 A4, 3x alu-rounded-profile Ø12x1.5
material: aluminium, stainless steel

optional use the base rail D-S (p.17)

item no.	inclination	
6100300032	10°	
6100300033	15°	
6100300034	20°	
6100300035	25°	
6100300036	30°	
6100300037	35°	
6100300038	40°	
6100300039	45°	

Rails

Support Rail TF50+

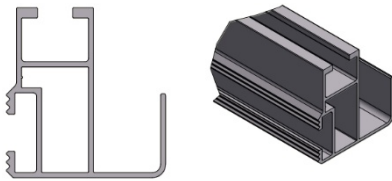


item description

for small and medium span width
material: aluminium

item no.	length
6800100022	5200 mm
6800100023	3100 mm
6800100027	2100 mm

Support Rail TF50m

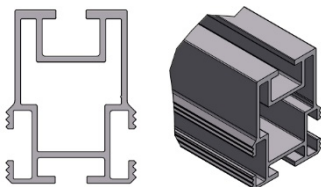


item description

for small and medium span width
with integrated cable duct
material: aluminium

item no.	length
6800100019	5200 mm

Support Rail TF60



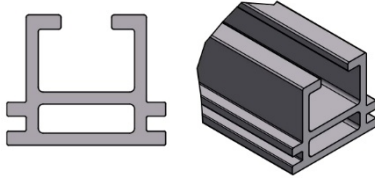
item description

for large span width
material: aluminium

item no.	length
6800100020	5200 mm

Rails

Support Rail TF27-T

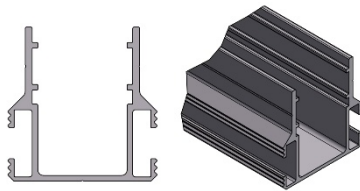


item description

for trapezoidal sheet metal roofs
material: aluminium

item no.	length	
6800100021	5200 mm	
6800100015	3100 mm	
6800100030	2100 mm	

Base Rail D-S



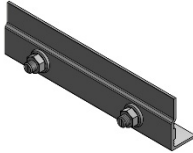
item description

use for delta-support, continuous
material: aluminium

item no.	length	
6800900014	4900 mm	

Connectors

Butt Connector TF50+ / TF50m



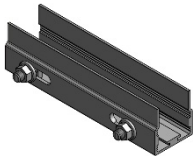
item description

to connect of support rails TF50+ or TF50m, pre-assembled
incl. 2x T-head screw M10x25 A2, 2x locknut M10 A4
material: aluminium, stainless steel

item no.

6700300046

Butt Connector TF60



item description

to connect of support rails TF60, pre-assembled
incl. 2x T-head screw M10x25 A2, 2x locknut M10 A4
material: aluminium, stainless steel

item no.

6700300044

Butt Connector TF27-T



item description

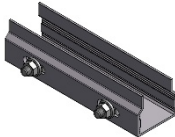
to connect of support rails TF27-T
required accessories: optional 2x blind rivet or 2x self-drilling-screw (p.24)
material: aluminium

item no.

6700300058

Connectors

Butt Connector Base Rail D-S



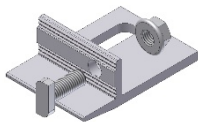
item description

to connect of base rails D-S, pre-assembled
incl. 2x T-head screw M10x25 A2, 2x locknut M10 A4
material: aluminium, stainless steel

item no.

6700300047

Universal Connector



item description

to connect of e.g. rase rail and hanger bolt, pre-assembled
incl. 1x T-head screw M10x35 A2, 1x locknut M10 A4
material: aluminium, stainless steel

item no.

6700300035

Two-Layer Connector



item description

to use for cross rail mounting, pre-assembled
incl. 1x button head screw M8x20 A2 (TX40), 1x safety washer S8,
1x rhombus nut M8
material: aluminium, stainless steel

item no.

6700300037

Connectors

Connection Piece M10



item description

to connect of support rail and steel-roof hook, pre-assembled
consisting of:

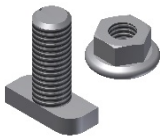
1x T-head screw M10x25 A2

1x locknut M10 A4

item no.

6700300032

Connection Piece M8



item description

to connection of support rail and aluminium-roof hook
consisting of:

1x T-head screw M8x25 A2

1x locknut M8 A4

item no.

6700300053

Module Clamps

Middle Clamp G3



item description

to fix modules with frame heights 30-50 mm, pre-assembled
material: aluminium, stainless steel, plastic

also usable for AeroFix

item no.	designation	surface
6700400125	30-50 mm	silver
6700400126	30-50 mm	black

End Clamp G3



item description

to fix modules with frame heights 30-50 mm, pre-assembled
material: aluminium, stainless steel, plastic

also usable for AeroFix

item no.	designation	surface
6700400127	31 mm	silver
6700400128	31 mm	black
6700400165	32 mm	silver
6700400166	32 mm	black
6700400130	35 mm	silver
6700400131	35 mm	black
6700400132	38 mm	silver
6700400133	38 mm	black
6700400134	40 mm	silver
6700400135	40 mm	black
6700400136	42 mm	silver
6700400137	42 mm	black
6700400138	45 mm	silver
6700400139	45 mm	black
6700400140	46 mm	silver
6700400141	46 mm	black
6700400142	50 mm	silver
6700400143	50 mm	black

Module Clamps

Laminate Middle Clamp G2



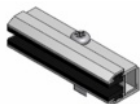
item description

to fix unframed modules, pre-assembled
clamping range: 6 – 9 mm
material: aluminium, stainless steel, EPDM

item no.

6700500005

Laminate End Clamp G2



item description

to fix unframed modules, pre-assembled
clamping range: 6 – 9 mm
material: aluminium, stainless steel, EPDM

item no.

6700500006

Accessories

Flange Head Screw



item description

to fix roof hooks on timber rafters
material: stainless steel A2

item no.	designation	screw drive type
6900300007	6x100	TX25
6900300008	8x100	TX40
6900300010	8x140	TX40

Accessories

Countersunk Screw



item description

to fix roof hook slate S+
material: stainless steel A2

item no.	designation	screw drive type
6900300011	8x100	TX40

ASD Flange Head Screw



item description

to fix roof hooks by insulation over rafters
material: stainless steel A2

item no.	designation	screw drive type
6900300014	8x240	TX40
6900300015	8x300	TX40

ASD Countersunk Screw



item description

additional to use by insulation over rafters
material: stainless steel A2

item no.	designation	screw drive type
6900300016	8x280	TX40
6900300017	8x340	TX40

Accessories

Blind Rivet



item description

for direct-mounting on trapezoidal sheet metal
material: stainless steel A2, aluminium

item no.	designation	
6908300003	4.8x15	

Self-Drilling-Screw



item description

for direct-mounting on trapezoidal sheet metal
with sealing washer
material: stainless steel A2, EPDM

item no.	designation	Screw drive type	
6900600011	5.5x25	SW8	

Clamp - Potential Equalization



item description

for grounding with round wire 6-10 mm
incl. 1x button head screw M8x25 A2 (TX40), 1x safety washer S8
1x rhombus aluminium nut M8
material: stainless steel, aluminium

item no.	
6700200013	

Accessories

Rail End Cap TF50+ / TF50m



item description

for support rail TF50+ and TF50m
material: plastic

item no.

6700300041

Rail End Cap TF60



item description

for support rail TF60
material: plastic

item no.

6700300045

FrameFix



item description

to reinforce module frames by high snow loads
material: aluminium, stainless steel

item no.	designation	surface
6700300042	60-cells	silver
6700300043	60-cells	black
6700300049	48-cells	silver
6700300052	72-cells	silver

Tools

Set Blind Riveter Li-Ion Accu



item description

set consists of a GESIPA® blind riveter incl. 2 Li-Ion batteries

item no.

6000300013

Smart Systems
for Solar Power



IBC AeroFix Components

Base Rails

Base Rail G2



item description

with integrated roof protection mat
material: aluminium, rubber-granulate

item no.	length	
6101100029	800 mm	
6101100030	1500 mm	
6101100031	2200 mm	
6101100032	3100 mm	
6101100033	4300 mm	
6101100034	5400 mm	

Base Rail ak G2



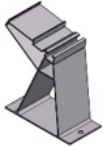
item description

with integrated roof protection mat and aluminium-triplex-foil
material: aluminium, rubber-granulate

item no.	length	
6101100035	800 mm	
6101100036	1500 mm	
6101100037	2200 mm	
6101100038	3100 mm	
6101100039	4300 mm	
6101100040	5400 mm	

Supports

Top Support G2 10-S / 10-EW



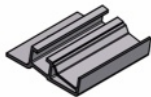
item description

for AeroFix 10-S and AeroFix 10-EW (with wind plate-end)
material: aluminium

item no.

6101100042

Bottom Support G2 10-S / 10-EW



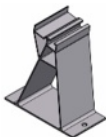
item description

for AeroFix 10-S and AeroFix 10-EW (with module-end)
material: aluminium

item no.

6101100043

Top Support G2 10-EW



item description

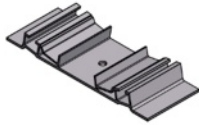
for AeroFix 10-EW
material: aluminium

item no.

6101100044

Supports

Bottom Support G2 10-EW



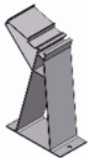
item description

for AeroFix 10-EW
material: aluminium

item no.

6101100045

Top Support G2 15-S



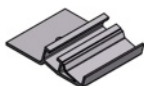
item description

for AeroFix 15-S
material: aluminium

item no.

6101100046

Bottom Support G2 15-S



item description

for AeroFix 15-S
material: aluminium

item no.

6101100047

Wind Plates

Wind Plate 10-S / 10-EW



item description

for AeroFix 10-S and AeroFix 10-EW
material: aluminium

item no.

6101100016

Wind Plate 15-S



item description

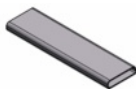
for AeroFix 15-S
material: aluminium

item no.

6101100019

Connector

Butt Connector Base Rail G2



item description

to connect of base rails
material: aluminium

item no.

6101100041

Module Clamps

Middle Clamp G4

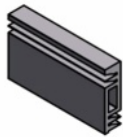


item description

to fix modules with frame heights 33-46 mm, pre-assembled
material: aluminium, stainless steel, EPDM

item no.	designation	surface	
6700400144	33-46 mm	silver	
6700400145	33-46 mm	black	

AK Adapter



item description

to fix modules with frame heights 33, 35, 38, 40, 45, 46 mm
material: aluminium

item no.	designation	surface	
6700400161	AK Adapter	silver	
6700400162	AK Adapter	black	

Accessories

Ballast Rail



item description

for ballast
material: aluminium

item no.

6101100022

Snow Load Rail G2



item description

for increase of module load to 5400 Pa, incl. fastening clips
material: stainless steel

only usable in combination with middle clamp G4 + AK adapter

item no.

designation

quantity of fastening clips

6101100048

long - 660 mm

2

6101100049

short - 360 mm

1

Self-Drilling-Screw



item description

to connect base rails with connector and for fixing wind plates
with sealing washer
material: stainless steel, EPDM

item no.

designation

screw drive type

6900600010

4.8x19

SW8

Accessories

Socket Cap Screw

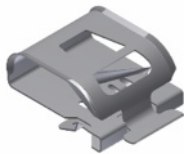


item description

to connect e.g. support on base rail
with lock tothing
material: stainless steel A2

item no.	designation	screw drive type
6900100012	M8x16	TX40

Cable Clip 0°



item description

for cabling e.g. at the module frame
material: steel (coated)
also usable for TopFix 200

item no.
6101100027

Cable Clip 90°



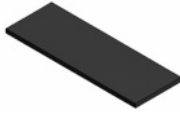
item description

for cabling e.g. at the supports
material: steel (coated)
also usable for TopFix 200

item no.
6101100028

Accessories

Roof Protection Mat



item description

length = 500 mm, width = 172 mm, height = 15 mm
material: rubber-granulate

item no.	designation
6101100020	without alu-triplex-foil
6101100021	with alu-triplex-foil

Slide Protection



item description

perforated band, coil = 10 m
material: stainless steel

item no.
6101100025

Clamp - Potential Equalization



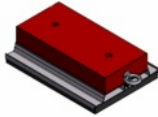
item description

for grounding with round wire 6-10 mm
incl. 1x button head screw M8x25 A2 (TX40), 1x safety washer S8
1x washer EPDM
material: stainless steel, aluminium

item no.
6700200039

Planning/Mounting Tools

Static Friction Measuring Device



item description

to determine the coefficient of static friction
incl. case and dynamometer

item no.

6101100024

Assembly Jig



item description

assembling aid for rapid determination of distances of base rails and supports

item no.

6101100023

Smart Systems
for Solar Power



IBC Special Solutions

ConSole+

ConSole+



item description

ballast with e.g. gravel
incl. accessories
material: plastic (HDPE)

item no.

6100100020

Streamliner+



item description

wind deflector (optional) to reduce the ballast in the roof edge and corner area
incl. accessories
material: plastic (HDPE)

item no.

6100100021

Smart Systems
for Solar Power



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