Schletter Solar Mounting Systems

Component Overview 2013/14

SCHLETTER

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Component Overview

Our plant is certified in accordance with:

TÜV Rheinland CERT:
ISO 9001:2008
ISO 14001:2004
ISO 50001:2011

Manufacturer qualification in accordance with:
DIN 18800-7:2008-11 class E

EG certification in accordance with:
DIN EN 1090-2/3 EXC3

DIN EN ISO 3834-2:2006
Comprehensive quality requirements
regarding welding operations

Manufacturer qualification in accordance with:
DIN 2303 Q2 BK1

DIN EN 15085-2
Certification level CL1

Manufacturer qualification in accordance with:
DIN V 4113-3 class C

TC KLEBEN Adhesive bonding specialists
in accordance with DIN 6701-2, class A1

Many systems also have official technical approval.

Accreditations and certification can be be referenced on the internet at:
http://www.schletter.de/EN/company/qm-certificates.html

FASTENING ELEMENTS

Our products in the area: Fastening elements:

Roof hooks

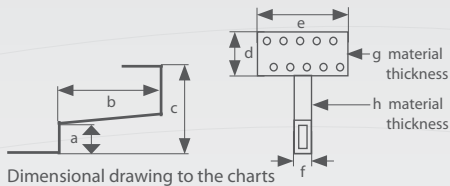Connection to corrugated roofs

Connection to sheet metal roofs

StandOff

FixE / FixT

Roof hooks
Fastening elements

Dimensional drawing to the charts

Mounting plan

Overview - Roof hooks

- all roof hooks are of quality steel
- adjustable hooks are fully pre-assembled

Wood screws, hexagon nuts (M10x25 mm) and flange nuts must be ordered separately!

Also available in black on request!

Roof hooks for minimal snow- and normal wind loads

- • VA-quality
- • Welded
- • symmetric bar arrangement

100002-000 Roof hook Eco G							
	a	b	c	d	e	f	g	h
mm	45	110	132	60	150	30	5	5

100003-000 Roof hook Eco V							
	a	b	c	d	e	f	g	h
mm	45	105	117-147	60	150	30	5	5

Roof hooks for higher snow- and wind loads

- • VA-quality
- • Welded
- • symmetric bar arrangement
- • Various sizes available for improved rear airing.

KlickTop

100004-000 Roof hook Eco S 135 (Normal height 135 mm)							
	a	b	c	d	e	f	g	h
mm	45	110	135	60	150	35	5	6

100004-001 Roof hook Eco S 135 KlickTop

100007-000 Roof hook Eco S 165 (Custom height 165 mm)							
	a	b	c	d	e	f	g	h
mm	45	110	165	60	150	35	5	6
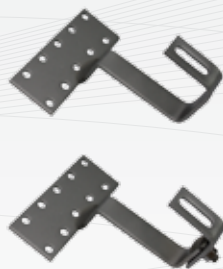
100008-000 Roof hook Eco S 195 (Custom height 195 mm)							
	a	b	c	d	e	f	g	h
mm	45	110	195	60	150	35	5	6

100009-000 Roof hook Eco SV (extra stable, adjustable)							
	a	b	c	d	e	f	g	h
mm	45	110	120-150	60	150	35	5	6

100009-001 Roof hook Eco SV KlickTop

KlickTop

Special design of the roof hook Eco S 135

100004-002 Roof hook Eco S 135 right
Bar arrangement right
100006-000 Roof hook Eco S 135 35mm
For low battens a = 35mm
100005-000 Roof hook Eco S 135 Bar 130
For large tile formats b = 130mm

Roof hook for particularly heavy snow loads

- VA-quality
- Welded
- symmetric bar arrangement

100010-000 Roof hook VaMax							
	a	b	c	d	e	f	g	h
mm	45	120	145	80	180	35	6	8

100010-001 Roof hook VaMax KlickTop

KlickTop

100011-000 Roof hook VaMax (adjustable)							
	a	b	c	d	e	f	g	h
mm	45	120	125-165	80	180	35	6	8

100011-001 Roof hook VaMax KlickTop (adjustable)
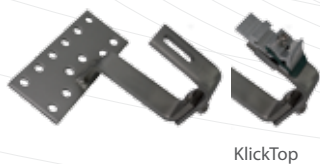
KlickTop

Roof hooks
Fastening elements

Dimensional drawing to the charts
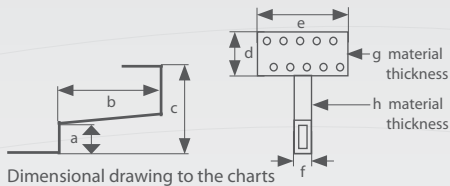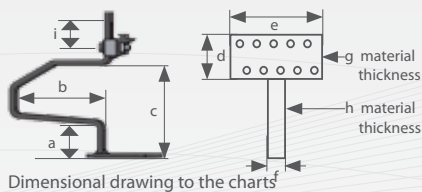
Roof hook Universal

- VA-quality
- Variable bar arrangement
- Adjustable at the front and rear
- Middle bar can be set in three different positions

100001-000 Roof hook Universal (Frankfurter Pantile or interlocking tile)

	a	b	c	d	e	f	g	h
mm	37-47	115	78-125	75	150	30	5	6

100001-001 Roof hook Universal KlickTop

KlickTop

Dimensional drawing to the charts

Roof hooks Rapid²⁺

- VA-quality
- Welded
- Symmetric bar arrangement
- Pre-assembled

101001-000 Roof hook Rapid²⁺ 45

	a	b	c	d	e	f	g	h	i
mm	45	110	118	60	150	35	5	6	30

Comparable to: Eco S 100004-000, 100004-001, 100009-000

101001-001 Roof hook Rapid²⁺ 45V

	a	b	c	d	e	f	g	h	i
mm	45	110	125	60	150	35	5	6	30

As for 101001-000, but for vertical rail mounting
Comparable to: Eco S 100004-000, 100004-001, 100009-000

101002-000 Roof hook Rapid²⁺ 35

	a	b	c	d	e	f	g	h	i
mm	35	110	108	60	150	35	5	6	30

As with 101001-000, but 35 mm / 1.38 inch bracket height for low battens
Comparable to: Eco S 100006-000

101003-000 Roof hook Rapid²⁺ 55

	a	b	c	d	e	f	g	h	i
mm	55	110	116	60	150	35	5	6	30

As for 101001-000, but 55 mm / 2.17 inch bracket height for high battens or large tile formats

101004-000 Roof hook Rapid[2+] Universal								
	a	b	c	d	e	f	g	h	i
mm	40-54	110	116	60	150	35	5	6	30

Universally adjustable, for vertical rail mounting
Comparable to: Universal 100001-000

101005-000 Roof hook Rapid[2+] Max								
	a	b	c	d	e	f	g	h	i
mm	45	120	125	80	180	35	6	8	30

As for 101001-000, but with 35x8 mm /1.38x0.31 inch bar height for heavy snow loads
Comparable to: VaMax 100010-000, 100010-001, 100011-000, 100011-001

101005-001 Roof hook Rapid[2+] Max 150								
	a	b	c	d	e	f	g	h	i
mm	43	150	125	80	180	35	6	8	30

As for 101005-000, but with extended bar (size b) for large tile formats
Comparable to: VaMax 100010-000, 100010-001, 100011-000, 100011-001

101005-003 Roof hook Rapid[2+] Max 35								
	a	b	c	d	e	f	g	h	i
mm	35	120	115	80	180	35	6	8	30

As for 101005-000 but for low battens (Dimension a)

| **101006-000** Roof hook Rapid[2+] MaxV								
	a	b	c	d	e	f	g	h	i
mm	45	120	125	80	180	35	6	8	30

As for 101005-000, but for vertical rail mounting
Comparable to: VaMax 100010-000, 100010-001, 100011-000, 100011-001

Roof hooks Rapid 2L

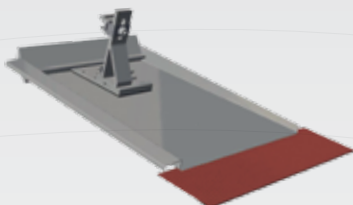Roof hook kit for system roofs made up of insulating roof elements

101008-000 Roof hook Rapid 2L								
	a	b	c	d	e	f	g	h	i
mm	20	127	74	88	35	35	6	6	30

101008-001 Roof hook Rapid 2L kit (incl. board and bolts)
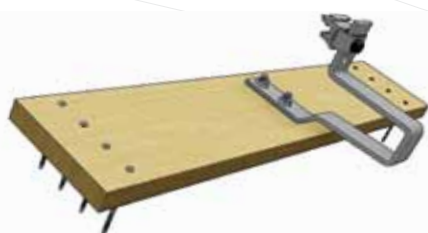
Roof hooks
Fastening elements

Alu-Tile substitute tile of aluminium

Replaces a complete roof tile. Particularly suited to areas with high snow loads, incl. roof hooks with Rapid top piece.

Checklist Dachziegel (sorted by tile manufacturer)		Alu-Tile	
Manufacturer	Tile type		
Braas	Frankfurter pantile, Taunus pantile, Harzer pantile, Double-S-tile	103003-000	Alu-Tile BEZ Type 000 kit
	Tegalit [1]	103003-014	Alu-Tile BEZ Type 014 kit
	Harzer pantile 7 (BIG)	103003-017	Alu-Tile BEZ Type 017 kit
Creaton	Rustico interlocking tile	103003-001	Alu-Tile BEZ Type 001 kit
	MZ3	103003-005	Alu-Tile BEZ Type 005 kit
	Gratus	103003-007	Alu-Tile BEZ Type 007 kit
	Magnum [1]	103003-016	Alu-Tile BEZ Type 016 kit
Ergoldsbacher	Grooved tiles	103003-002	Alu-Tile BEZ Type 002 kit
	Large interlocking tile	103003-003	Alu-Tile BEZ Type 003 kit
	Erlus E58 / S	103003-004	Alu-Tile BEZ Type 004 kit
	Erlus large interlocking tile XXL, Erlus retro-style pantile XXL	103003-006	Alu-Tile BEZ Type 006 kit
	Erlus Karat [1]	103003-008	Alu-Tile BEZ Type 008 kit
	Erlus E58 plus [1]	103003-013	Alu-Tile BEZ Type 013 kit
	Erlus Linea	103003-015	Alu-Tile BEZ Type 015 kit
Istghofener Swiss	Double interlock 425 x 250 mm	103003-012	Alu-Tile BEZ Type 012 kit
Jungmeier	Interlocking tile	103003-002	Alu-Tile BEZ Type 002 kit
Nelskamp	S-pantile	103003-000	Alu-Tile BEZ Type 000 kit
	Finkenberger pantile	103003-010	Alu-Tile BEZ Type 010 kit
ZZWancor Swiss	Flat interlocking tile Fama, flat interlocking tile Jura 13, Züricher Ziegelei Istigh. 290	103003-009	Alu-Tile BEZ Type 009 kit
	Pantile Pada 13	103003-011	Alu-Tile BEZ Type 011 kit

[1] Additional measures: The tiles must be modified a bit! Please read our detailed product information. Price adjusted!

### SlatePlan high-grade steel-shingle substitute

SlatePlan can be used on shingle roofing, e.g. of bitumen, fibre, cement or slate for connecting hanger bolt systems. Accessories: - see Corrugated Roof Fastening
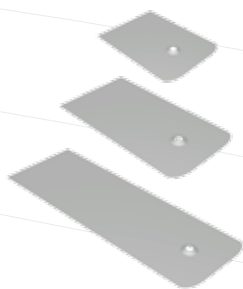
109017-000 SlatePlan with seal 270x200x0.5 mm

109017-001 SlatePlan with seal 370x200x0.5 mm

109017-002 SlatePlan with seal 580x200x0.5 mm

e

d

g material thickness

h material thickness

b

c

a

f

Dimensional drawing to the charts
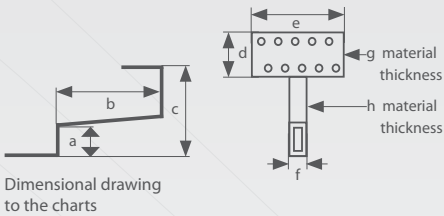
Roof hook plain tile

• VA-quality

Please ensure that the hook design is suitable for the respective roof material.

103001-001 Roof hook Biberschwanz (basic)							
	a	b	c	d	e	f	g	h
mm	45	255	125	60	30	30	5	5

103001-002 Roof hook Biberschwanz Universal (adjustable)							
	a	b	c	d	e	f	g	h
mm	40	240	107-137	75	150	30	5	6

103011-000 Biberschwanz-fastening kit galv.. (basic)							
	a	b	c	d	e	f	g	h
mm	32	255	125	60	30	30	5	5

Biberschwanz substitute tile, galvanized with integrated high-grade steel hook

385 mm

180 mm

103012-000 Biberschwanz-fastening kit Copper (basic)

Biberschwanz (plain tile) copper substitute plate with integrated VA-hook

103013-000 Biberschwanz-fastening kit stainless steel (universal)							
	a	b	c	d	e	f	g	h
mm	32	260	130	45	30	30	5	5

Biberschwanz substitute tile, galvanized with integrated VA-hook

380 mm

175 mm

103011-001 Biberschwanz-fastening Univ. galv. (Universal)							
	a	b	c	d	e	f	g	h
mm	35	245	110	71	140	30	5	5

Biberschwanz substitute tile, **galvanized** with integrated VA-hooks and additional fastening plate (adjustable at the sides). The optimum fastening method!

103012-001 Biberschwanz Biberschwanz fastening kit, Copper (Universal)

Biberschwanz substitute tile, copper with integrated VA hooks and additional fastening plate (adjustable at the sides).

Roof hooks
Fastening elements

Special roof hooks Slate/Prefa

- VA-quality
- No plate

An optimal mounting design for slate roofs is dependent upon the roof pitch!

102001-000 Roof hook Slate Prefa (basic)			
	Length	Height	Breadth	Thickness
mm	235	75	30	5

102001-001 Roof hook Slate Prefa V (Vario)			
	Length	Height	Breadth	Thickness
mm	235	60-90	30	5

Roof hook Thermodach

- Specially customized for application on thermal (Thermodach) roofs
- Fastening holes. 7mm / 0.28inches

109013-000 Roof hook Thermodach			
	Length	Height	Breadth	Thickness
mm	235	75	35	6

Roof hook special design Bitumen

- Particularly flat hooks
- Designed particularly for fastening between bitumen tiles

109001-000 Roof hook Bitumen			
	Length	Height	Breadth	Thickness
mm	255	75	40	4

Roof hook special design Tegalit

- No fastening plate
- For flat Tegalit tiles

109003-000 Roof hook Tegalit							
	a	b	c	d	e	f	g	h
mm	52	180	132	60	30	30	5	5

Roof hook PP

- For purlin roofs with pan-tile roofing

Given the distribution of purlins, the hooks must generally be combined with a cross rail system.

109004-000 Roof hook system PP Purlin Pan							
	a	b	c	d	e	f	g	h
mm	50	110	135	200	50	35	5	6

Roof hook Mönch-Nonne

- For special tile designs - Mönch / Nonne
- Particularly in South European countries.
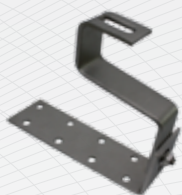
109005-000 Roof hook Mönch Nonne - purlin (adjustable)							
	a	b	c	d	e	f	g	h
mm	100-130	110	185-215	200	50	35	5	6

109005-001 Roof hook Mönch Nonne - rafter (adjustable)							
	a	b	c	d	e	f	g	h
mm	100-130	110	185-215	60	150	35	5	6

Configurable for rafters or concrete

Roof hooks
Fastening elements

Roof hook accessories

109006-002	Shim 2mm DN 8
109006-005	Shim 5 mm DN 8

Distance piece for roof hook mounting (to be applied in pairs)

109007-002	Shim 2mm DN 10 Aluminium
109007-005	Shim 5 mm DN 10 Aluminium
109007-012	Shim 2mm DN 10 PA plastic
109007-015	Shim 5 mm DN 10 PA plastic

Compensating plate for connector M10 (consider screw length, if necessary!)
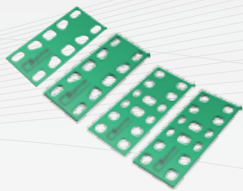
973000-017	Spacer plate 2 mm EcoG / EcoS / Rapid Standard
973000-018	Spacer plate 5 mm EcoG / EcoS / Rapid Standard
973000-019	Spacer plate 2 mm VaMax / Rapid Max
973000-020	Spacer plate 5 mm VaMax / Rapid Max

Distance piece for roof hook mounting

973000-221	Roof hook sealing tape grey TP600 10m

109008-000 KlickTop-Roof hook attachment

Designed particularly for special roof hooks which are not available as KlickTop.
Not appropriate for bitumen roof hooks!

Application example

109009-002 Plastic distance tube, custom cut

- For on-rafter insulation
- Applicable as a distance piece for on-rafter insulations in combination with extra long bolts;
- Plastic design prevents cold bridges!
- Please specify desired length in the order
- Bolts to be ordered separately!
- Please take into account the reduced permissible load per hook!

34 mm

17 mm

Application example

109010-000 Additional angle bracket Iso07

- for roof hook fastening - System Iso07

Application example

109014-000 ECO90-Angle bracket kit

- for roof hooks

Enables roof-hook mounting on structures with glulam girders. Incl. bolts and nuts for fastening ECO90 angle brackets to the roof hooks.

Compatible with all Schletter roof hooks, except:
100001-000 Roof hook Universal
100001-001 Roof hook Universal KlickTop
101004-000 Roof hook Rapid2+ Universal

Area of application

Fastening of solar and photovoltaic plants to the substructure of tiled roofs.

Technical data

Material	Roof hooks and bolts: Stainless steel 1.4301 Distance pieces, compensating plates, KlickTop and Rapid profile clamping. Aluminium; sheet metal parts: Stainless steel 1.4301
Statik	Structural analysis in accordance with current national standards (in Germany DIN1055 and EC1). Structural appendix for dimensioning the number of required fastening points, based on structural analysis. Please ensure you observe the structural analysis information for each case. Verification for adhesive forces of a roof to the substructure is not included in any of the general structural analysis appendices!

System prices can be obtained quickly and easily with our Autokalkulator!
Please refer to our website: www.schletter.eu

Corrugated roof
fastening elements

Assembly diagram

Corrugated roof fastening overview

For corrugated eternit or trapezoidal sheet metal roofs, so-called corrugated roof fastening kits are used, comprising a special hanger bolt with EPDM-sealing and a mounting plate.

943810-160 Loose hanger bolts without nuts, M10x160 mm

943810-200 Loose hanger bolts without nuts, M10x160 mm

943812-200 Loose hanger bolts without nuts, M12x200 mm

943812-250 Loose hanger bolts without nuts, M12x250 mm

943812-300 Loose hanger bolts without nuts, M12x300 mm

943812-350 Loose hanger bolts without nuts, M12x350 mm

943812-400 Loose hanger bolts without nuts, M12x400 mm
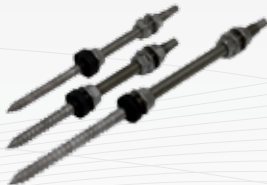
110010-200 Hanger bolt kit 10x200 mounted M10x200 mm

110012-200 Hanger bolt kit 12x200 mounted M12x200 mm

110012-300 Hanger bolt kit 12x300 mounted M12x300 mm

110012-350 Hanger bolt kit 12x350 mounted M12x350 mm

110012-400 Hanger bolt kit 12x400 mounted M12x400 mm

Pre-assembled hanger bolt kit with vulcanized EPDM-seal (UV-resistant) and 3 flange nuts in V4A, assembled
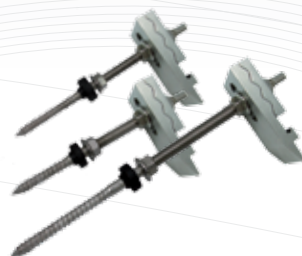
111110-200 Fastening kit for corrugated roofs 10x200 KlickTop M10x200 mm

111112-200 Fastening kit for corrugated roofs 12x200 KlickTop M12x200 mm

111112-300 Fastening kit for corrugated roofs 12x300 KlickTop M12x300 mm

KlickTop fastening kit for corrugated roofs incl. KlickTop kit, hanger bolt with vulcanized EPDM-seal (UV-resistant) and 3 flange nuts in V4A

111010-200 Fastening kit for corrugated roofs 10x200 M10x200 mm

111012-200 Fastening kit for corrugated roofs 12x200 M12x200 mm

111012-300 Fastening kit for corrugated roofs 12x300 M12x300 mm

Fastening kit for corrugated roofs incl. mounting plate, hanger bolt with vulcanized EPDM-seal (UV-resistant) and 3 flange nuts in V4A

111210-200 Twin fastening kit for corrugated roofs 10x200 M10x200 mm

111212-200 Twin-fastening kit for corrugated roofs 12x200 M12x200 mm

111212-300 Twin fastening kit for corrugated roofs 12x300 M12x300 mm

Twin fastening kit for corrugated roofs incl. mounting plate, 2 hanger bolts with vulcanized EPDM-seals (UV-resistant) and 6 flange nuts, suitable for fibre cement plates or "Berliner Welle" 133 / 177 mm
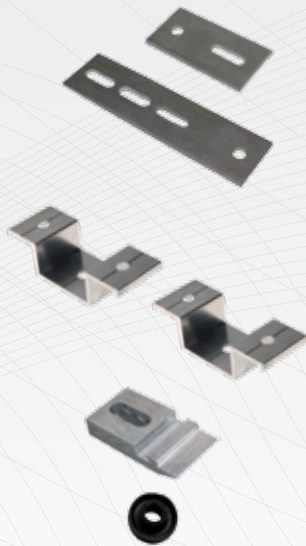
119002-000 Mounting plate for hanger bolt M10 / M12

for hanger bolts M10 / M12, loose, aluminium
120x60x6 mm

119003-000 Dual mounting plate with hanger bolts M10 / M12

for hanger bolts M10 / M12, loose, aluminium
Extra stable design

119014-001 Hat rail 50mm long d11 d11 d11

for hanger bolts M10 (middle hole), loose, aluminium
middle hole: 11 mm, outer hole: 11 mm

119014-000 Hat rail 50mm long d11 d13 d11

for hanger bolts M12 (middle hole), loose, aluminium
middle hole: 13 mm, outer hole: 11 mm

119001-000 KlickTop attachment for hanger bolt

for hanger bolts M10 / M12, loose, aluminium

973000-002 EPDM seal for hanger bolt M10 / M12

EPDM, UV-resistant

Area of application

Fastening of solar and photovoltaic plants to the substructure of corrugated eternit roofs or trapezoidal sheet metal roofs.

Technical data

Material	Bolts: Stainless steel 1.4301 Mounting plate / KlickTop attachment: Aluminium Rubber seal: vulcanized EPDM-seal (UV-resistant)
Statik	Structural analysis in accordance with current national standards (in Germany DIN1055 and EC1). Appendices for dimensioning the number of required fastening points, based on structural analysis. Please ensure you observe the structural analysis information for each case. Verification for adhesive forces of a roof to the substructure is not included in the respective structural analysis appendices!

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Corrugated roof
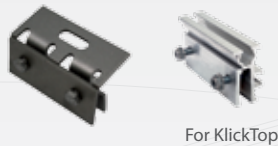## fastening elements
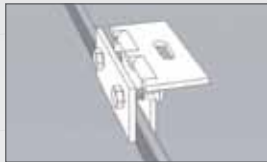
Assembly diagram

Sheet metal clamp overview

For almost every type of application!

Please note: Please limit tightening torque to avoid deformation of the standing seams and to ensure that thermal expansion of the metal sheets is not impeded!
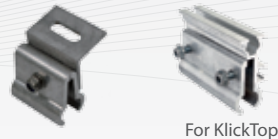
For KlickTop

112001-000 Standing seam clamp 503 standing seam roof VA

for standing seam roofs
Please note: With titanium sheeting please verify that the standing seams can withstand loading!

112001-001 Standing seam roof seam clamp for Klicktop

For KlickTop

112002-000 Seam clamp 510 KalZip

for KalZip, Bemo, Monteco Eurorib E500 and similar

112002-002 Seam clamp 510 KalZip for Klicktop
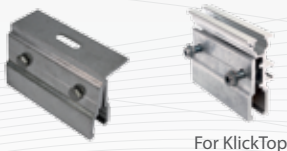
For KlickTop

112003-000 Standing seam clamp 520 Zambelli RibRoof465 Alu

for Zambelli RibRoof, design 465 and similar

112003-002 Seam clamp Zambelli RibRoof465 Klicktop
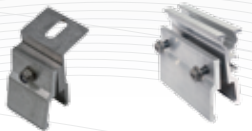
For KlickTop

112004-000 Seam clamp 522 A Zambelli RibRoof500 Alu

for Zambelli RibRoof, design 500 and similar

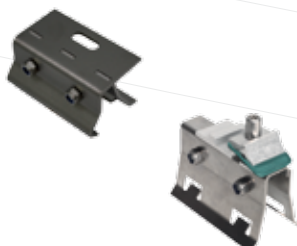**112004-001** Seam clamp Zambelli RibRoof500 Klicktop
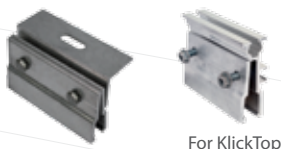
For KlickTop

112006-000 Seam clamp 524 Fischer KlipTec 52-400 Alu

for Fischer KlipTec 52/400 and similar
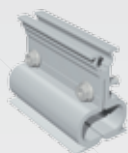
112006-001 Seam clamp Fischer KlipT 52-400 Klicktop

112007-000 Seam clamp 525 Domico VA

for Domico and similar designs

112010-000 Seam clamp RC for RiverClack
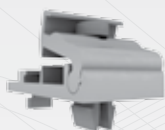
for RiverClack and similar

112014-000 Universal clamp

for seams with a max. breadth of 47 mm
and a max. height of 25 mm

129004-000 KlickTop-cross connector kit M8

with bolt, Klick inlay and square nut for Klick groove M8
for the mounting of profiles to the standing seam clamps using
KlickTop

129063-000 Rapid cross connector

Complete pre-assembled for click-groove M8
for cross rail systems
➲ **Product Sheet Rapid cross connector**

Trapezoidal clamp Fix 2000

The universal trapezoidal roof fastener
for steel sheets breadth min. 0.55 mm and aluminium sheets breadth min. 0.8 mm:
Also for steel and alu sheets breadth min. 0.5 on request;
Customized production (measurement checklist is available for download)!
Instructions for use should be carefully observed!

113002-000 Fix2000 KlickTop

incl. 4 self-tapping screws

113002-001 Fix2000 KlickTop with seal

Design with glued-in EPDM rubber seal
(Manufacturer recommendation)

113001-000 Fix2000 Standard

incl. 4 self-tapping screws and 1 screw kit M10

113001-001 Fix2000 Standard with seal

Design with glued-in EPDM rubber seal
(Manufacturer recommendation)

973000-014 EPDM seal for self-mounted assembly
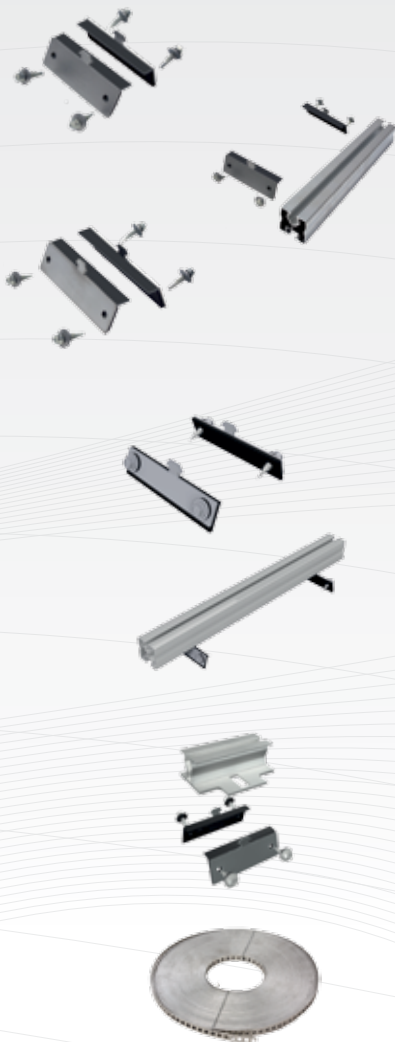
(10 m - Roll, 48 mm wide)

119009-000 Gauging tool for Fix2000

(for measuring out trapezoidal sheet dimensions)

Corrugated roof
fastening elements

System VarioFix

The universal fixation for trapezoidal sheet metal roofs
for steel- and alu sheeting of breadth min. 0.5 mm;
Please read instructions for use carefully!

113009-100 SingleFix-V Solo pair kit

(2 x SingleFix-V Solo, 4 self-tapping screws)
For use with e.g. assembly rail Solo

113009-200 SingleFix-V Solo mounting kit

(2 x SingleFix-V Solo, 4 self-tapping screws)
Profile piece Solo 450 mm)

113009-101 SingleFix-V Profi pair kit

(2 x SingleFix-V Solo, 4 self-tapping screws)
For use with e.g. mounting rail Profi

113009-103 SingleFix 20 pair Set

(2 x SingleFix 20, 4 self-tapping screws)
With particularly low corrugation crests, min. 20 mm!
For use with e.g. mounting rail Solo

113009-202 SingleFix 20 mounting kit

(2 x SingleFix 20, 4 self-tapping screws,
Rail piece Solo 450 mm)
With particularly low corrugation crests, min. 20mm!

113011-100 SingleFix-HU

(2 x SingleFix-V Solo, 4 self-tapping screws,
SingleFix-HU rail)

119015-002 Punched mounting tape 17x0.8 Hole 5.2-5.3 mm - 50 m

For fastening individual clamps as a potential connection
or for binding the string cabling if mounting rails
cannot be deployed

Fastening component FixPlan

The alternative for smooth sheet metal roofs, i.e. with no standing seam to provide a base for fastening (e.g. titanium zinc metal roofs).
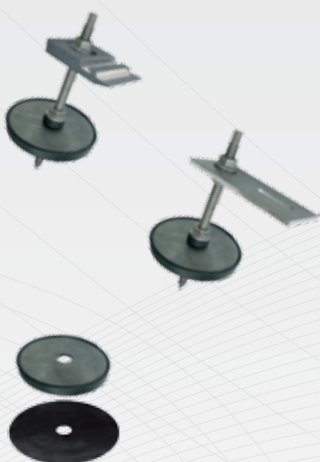
114001-001 FixPlan 12x200 KlickTop with hanger bolt 12x200	
114002-001 FixPlan 12x200 KlickTop with hanger bolt 12x300	

114001-000 FixPlan 12x200 with hanger bolt 12x200	
114002-000 FixPlan 12x300 with hanger bolt 12x300	

114003-000 FixPlan sealing mat	
114004-000 Bituplan additional seal for FixPlan	
For mounting on bitumen roof coverings	

Area of application

For fastening solar plants and PV-plants to sheet metal- and bitumen roofs.

Important information on structural safety

- A sufficient holding force of the metal sheet to the substructure is prerequisite when mounting an assembly on the roof cladding. Please note that this verification must be provided by the customer!
- Sheet metal is particularly prone to stress in elevated plants. Please ensure a sufficient number of fastening points and provide proof of the holding capacity of the roof covering.
- The verified holding force of the standing seam clamp on the roof can be taken from the respective system structural analysis.
- Take into account the additional stress at roof edges and in the corner zones, or avoid these areas altogether when planning the plant assembly.
- The self-weight of the PV plant must be added to the snow load in order to calculate the maximal load incurred on the roof covering.

Technical data

Material	Bolts: Stainless steel 1.4301 Rails: EN AW 6063 T66 / AlMgSi0.5 Sheet metal components: Stainless steel 1.4302
Statik	Structural analysis in accordance with current national standards (in Germany DIN1055 and EC1). Structural analysis appendices for dimensioning the number of required fastening points, based on structural calculations with evidence drawn from tensile tests. Please ensure you observe the structural analysis information for each case. Verification for adhesive forces of a roof to the substructure is not included in any of the general structural analysis appendices!

System prices can be obtained quickly and easily with our Autokalkulator.
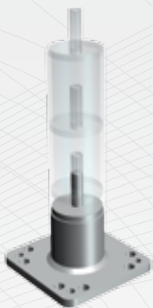Please refer to our website: www.schletter.eu

StandOff
Fastening elements

StandOff overview

The fastening system for bitumen roof and membrane roofs of industrial buildings.

StandOff

188000-079	StandOff Aluminium-mounting console 79 mm
188000-105	StandOff Aluminium-mounting console 105 mm
188000-206	StandOff Aluminium-mounting console 206 mm
188000-308	StandOff Aluminium-mounting console 308 mm

StandOff - KlickTop Configuration

(incl. KlickTop attachment and nuts)

188001-079	StandOff Aluminium-mounting console 79 mm
188001-105	StandOff Aluminium-mounting console 105 mm
188001-206	StandOff Aluminium-mounting console 206 mm
188001-308	StandOff Aluminium-mounting console 308 mm

100mm

FixE and FixT
Fastening elements

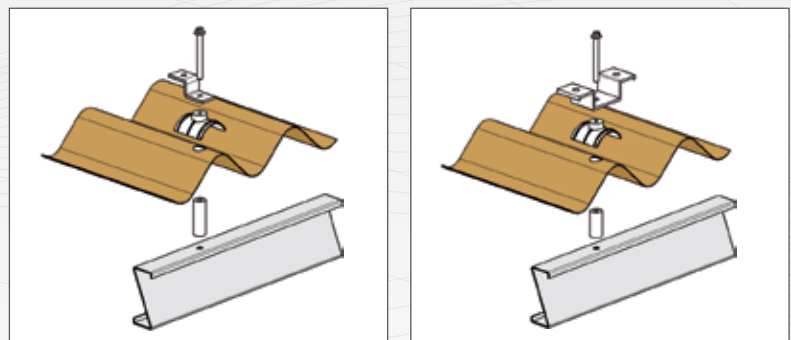|					Wood
⊏	⊏	Σ	Z	I	Steel
1	2	3	4	5	FixE/T size

Applicable sizes

FixE and FixT Overview

The innovative fastening solution with steel and wooden purlins.
Order to be submitted by means of checklist FixE / FixT only
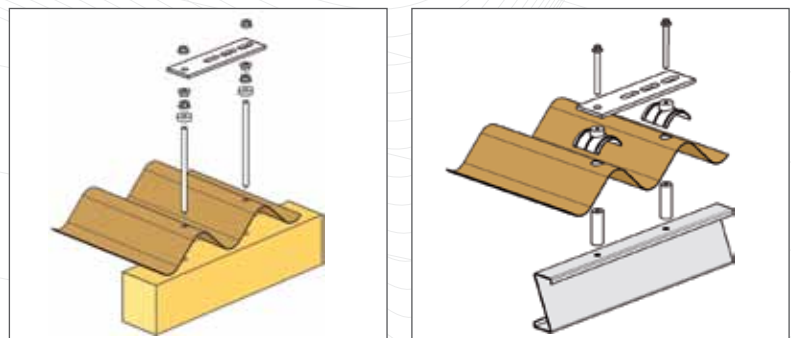
111006-000 FixE Gr.1 Single fastening kit

111007-000 FixE Gr.2 Twin fastening kit, plate

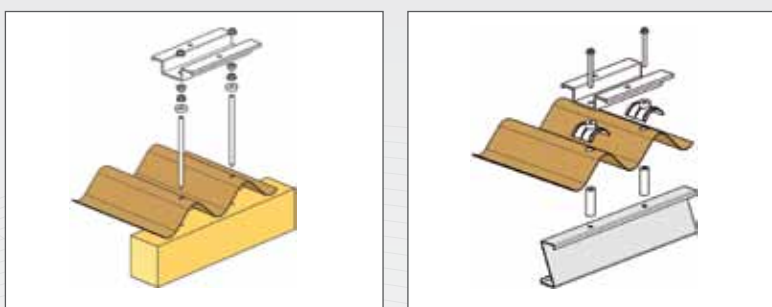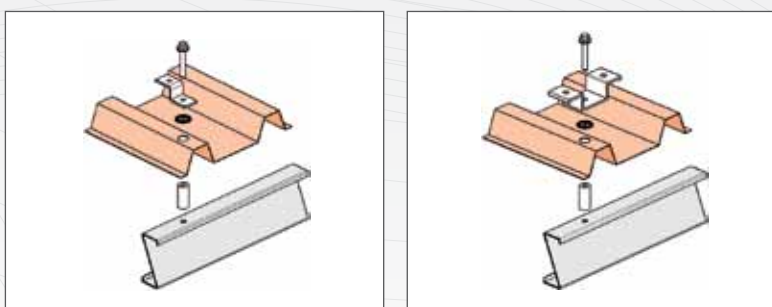For distances between crests of
•   of 133 and 177 mm, +/- 10 mm

Slotted holes allow for adjustment

Please note!
Twin fastening kit for corrugated roofs: Item numbers and info on Page 15

111008-000 FixE Gr.3 Twin fastening kit, Top-hat profile

Manufacture in accordance with check lists

113004-000 FixT Gr.1 Single fastening kit

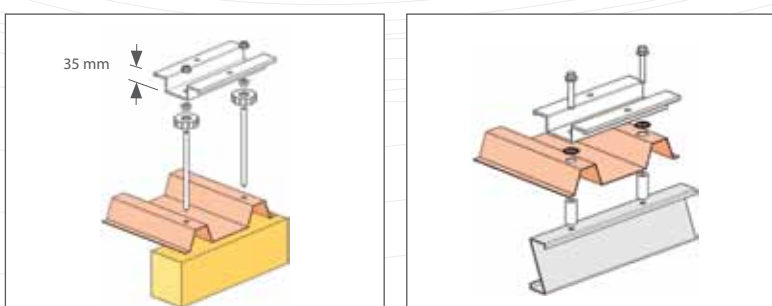**113005-000** FixT Gr.2 Twin fastening kit

For distance between crests of
- up to 250 mm
- up to hanger bolt size M10

113006-000 FixT Gr.3 Twin fastening kit

For distance between crests of
- more than 250 mm

35 mm

FixE and FixT

Fastening elements

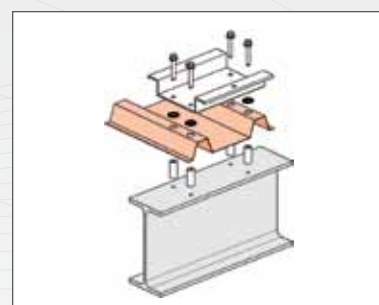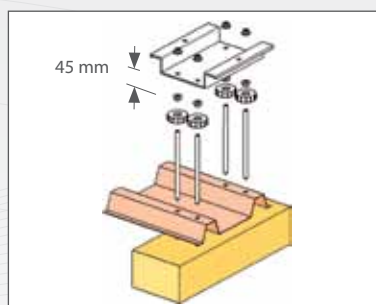**113007-000** FixT Gr.4 Quadruple fastening kit

For distance between crests of
·   up to 250 mm

113008-000 FixT Gr.5 Quadruple fastening kit

For distance between crests of
·   more than 250 mm

45 mm

Area of application

Elevation systems such as CompactVario and CompactGrid

Important information on structural safety

Support elements are adapted to the roof covering in accordance with the checklist; the corresponding screws are selected and the distance tube length is determined. The structural dimensioning of the complete construction (roof connections, support plates, elevation) is carried out using a convenient structural analysis program.

Technical data

Material	Bolts: Quality steel 1.4301, 8 mm for steel purlins, hanger-bolts M10 or. M12 for wooden purlins. Distance tubes: Alu, diam. 20 mm / 16 mm (only with steel purlins): Concentric EPDM-seal, UV-resistant in steel purlin assemblies. Custom-designed sealing top or rubber for corrugated roofs with wooden purlin assemblies. Sealing collar, EPDM rubber-moulded part, UV-resistant Supporting elements: Top-hat profiles: Aluminium; Fastening bracket VA (FixE1) or mounting plate aluminium (FixE2)
Statik	Structural analysis in accordance with current national standards (in Germany DIN1055 and EC1). a) Roof-parallel mounting: Tables containing the number of fastening points b) Elevations. Structural analysis project planning program CompactVario

System prices can be obtained quickly and easily with our Autokalkulator. Please refer to our website: www.schletter.eu

Notes

MODULE TERMINALS

Our products in the area: Fastening components:

Clamps for framed modules

Clamps for unframed modules

For framed modules
Module clamps

for framed modules

Module clamps compatible with most designs of module

Alu module end clamps for framed modules
Optimum holding force in the critical edge zones of the plant.

Module middle clamps, length 100 mm, clamping depth 3 mm
Optimal distribution of clamping pressure along the module frame
Gap between modules: approx. 20 mm

Mounting plan

Module clamps without accessories

| Frame height mm	End clamp	Middle clamp	Earth. mid. clamp	End clamp	Middle clamp	Earth. mid. clamp	Compatible socket head screw mm
20	130001-020	130002-000	135001-000	130001-920	130002-900	135001-900	25
24	130001-024	130002-000	135001-000	130001-924	130002-900	135001-900	30
28	130001-028	130002-000	135001-000	130001-928	130002-900	135001-900	35
30	130001-030	130002-000	135001-000	130001-930	130002-900	135001-900	35
31	130001-031	130002-001	135001-001	130001-931	130002-901	135001-901	20
32	130001-032	130002-001	135001-001	130001-932	130002-901	135001-901	20
34	130001-034	130002-001	135001-001	130001-934	130002-901	135001-901	20
35	130001-035	130002-001	135001-001	130001-935	130002-901	135001-901	20
36	130001-036	130002-001	135001-001	130001-936	130002-901	135001-901	25
38	130001-038	130002-001	135001-001	130001-938	130002-901	135001-901	25
40	130001-040	130002-001	135001-001	130001-940	130002-901	135001-901	25
41	130001-041	130002-001	135001-001	130001-941	130002-901	135001-901	30
42	130001-042	130002-001	135001-001	130001-942	130002-901	135001-901	30
43	130001-043	130002-001	135001-001	130001-943	130002-901	135001-901	30
44	130001-044	130002-001	135001-001	130001-944	130002-901	135001-901	30
45	130001-045	130002-001	135001-001	130001-945	130002-901	135001-901	30
46	130001-046	130002-001	135001-001	130001-946	130002-901	135001-901	35
48	130001-048	130002-001	135001-001	130001-948	130002-901	135001-901	35
50	130001-050	130002-001	135001-001	130001-950	130002-901	135001-901	35
51	130001-051	130002-001	135001-001	130001-951	130002-901	135001-901	35

135004-000 Metal plate for module grounding
(in combination with standard clamps)

139003-000 VA module clamp "claw" (for example for Sanyo module)
Compatible accessories: M8x35
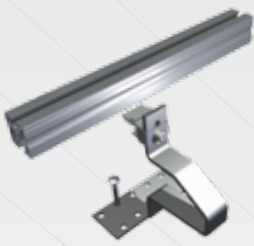
Mounting plan

System Rapid aluminium module clamps[2+] assembled
incl. screws for TX M8 wrench
with underhead serration and anti-friction coating

Assembled alu module clamps

Frame height mm	End clamp	End clamp Universal	Middleclamp	Grounding middle clamp	anodized in black End clamp	End clamp Universal	Middle clamp	Grounding middle clamp
30	131001-030	131002-000	131003-000	135002-000	131001-930	131002-900	131003-900	135002-900
31	131001-031	131002-000	131003-000	135002-000	131001-931	131002-900	131003-900	135002-900
32	131001-032	131002-000	131003-000	135002-000	131001-932	131002-900	131003-900	135002-900
33	131001-033	131002-000	131003-000	135002-000	131001-933	131002-900	131003-900	135002-900
34	131001-034	131002-000	131003-000	135002-000	131001-934	131002-900	131003-900	135002-900
35	131001-035	131002-000	131003-000	135002-000	131001-935	131002-900	131003-900	135002-900
36	131001-036	131002-000	131003-000	135002-000	131001-936	131002-900	131003-900	135002-900
37	131001-037	131002-000	131003-000	135002-000	131001-937	131002-900	131003-900	135002-900
38	131001-038	131002-000	131003-000	135002-000	131001-938	131002-900	131003-900	135002-900
39	131001-039	131002-000	131003-000	135002-000	131001-939	131002-900	131003-900	135002-900
40	131001-040	131002-001	131003-001	135002-001	131001-940	131002-901	131003-901	135002-901
41	131001-041	131002-001	131003-001	135002-001	131001-941	131002-901	131003-901	135002-901
42	131001-042	131002-001	131003-001	135002-001	131001-942	131002-901	131003-901	135002-901
43	131001-043	131002-001	131003-001	135002-001	131001-943	131002-901	131003-901	135002-901
44	131001-044	131002-001	131003-001	135002-001	131001-944	131002-901	131003-901	135002-901
45	131001-045	131002-001	131003-001	135002-001	131001-945	131002-901	131003-901	135002-901
46	131001-046	131002-001	131003-001	135002-001	131001-946	131002-901	131003-901	135002-901
47	131001-047	131002-001	131003-001	135002-001	131001-947	131002-901	131003-901	135002-901
48	131001-048	131002-001	131003-001	135002-001	131001-948	131002-901	131003-901	135002-901
49	131001-049	131002-001	131003-001	135002-001	131001-949	131002-901	131003-901	135002-901
50	131001-050	130002-001	131003-001	135002-001	131001-950	131002-901	131003-901	135002-901

Linear clamping

Here the clamp wedge is rotated through 90°.

131010-0XX	End clamp Rapid[2+] H (XX=Frame height in mm)
131010-9XX	End clamp Rapid[2+] H (XX=Frame height in mm) black anodized
131012-000	Middle clamp Rapid[2+] H30-39 mm
131012-900	Middle clamp Rapid[2+] H30-39 mm black anodized
131012-001	Middle clamp Rapid[2+] H40-50 mm
131012-901	Middle clamp Rapid[2+] H40-50mm black anodized

For unframed modules
Module clamps
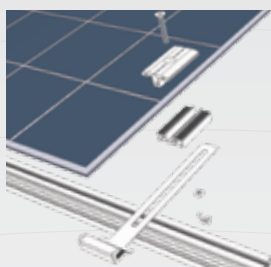
For unframed modules

Laminate Profi, Eco & GS series

For different module thicknesses
Note: Please observe tightening torque!
(see also: General information on laminate mounting)
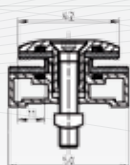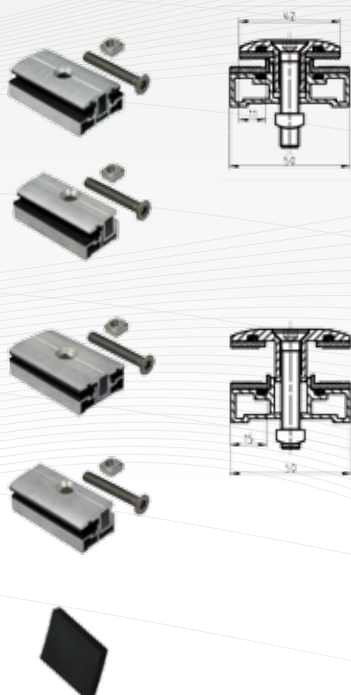
Mounting plan

Laminat Profi series

for laminates of thickness of 3-14mm
Glass inset: Profi narrow: 11 mm, Profi wide: 15 mm
Gap between modules: approx. 20 mm
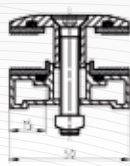incl. countersunk head screw and square nut

132201-308	Middle clamp Profi narrow 3-8 mm kit
132201-914	Middle clamp Profi narrow 9-14 mm kit
132101-308	End clamp Profi narrow 3-8 mm kit
132101-914	End clamp Profi narrow 9-14 mm kit
132202-308	Middle clamp Profi wide 3-8 mm kit
132202-914	Middle clamp Profi wide 9-14 mm kit
132102-308	End clamp Profi wide 3-8 mm kit
132102-914	End clamp Profi wide 9-14 mm kit
139001-000	Rubber underlay for laminate mounting
	This is inserted into the cross beam and prevents sagging of the module. Only used with Profi laminate!

Eco laminate series

11 mm glass inset; gap between modules approx. 22 mm
(no compression of laminates)

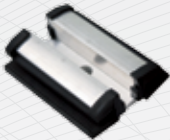|	
133240-040 Middle clamp Eco4 4 mm laminate (for 4 mm laminate)	
133240-140 Middle clamp Eco4 4 mm laminate kit (with accessories* M8x20)	

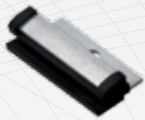|	
133140-040 End clamp Eco4 4 mm laminate (for 4 mm laminate)	
133140-140 End clamp Eco4 4 mm laminate kit (with accessories* M8x20)	

*with no click component!

133260-068 Middle clamp Eco6 6.8 mm laminate

133260-168 Middle clamp Eco6 6.8 mm laminate kit (with accessories* M8x20)

133160-068 End clamp Eco6 6.8 mm laminate

133160-168 End clamp Eco6 6.8 mm laminate kit (with accessories* M8x20)

*with no click component!
With manufacturer certification for laminated modules by First Solar

133280-080 Middle clamp Eco8 8 mm laminate

133280-180 Middle clamp Eco8 8 mm laminate kit (with accessories* M8x20)

133180-080 End clamp Eco8 8 mm laminate

133180-180 End clamp Eco8 8 mm laminate kit (with accessories* M8x20)

*with no click component!
Eco clamps also available on request in customized lengths

139004-000 Bearing plate Module clamp Eco (optional)
For raising the contact surface

973000-012 Distance piece
for laminate thickness of 4-10 mm

For unframed modules

Module clamps

139008-000 Safety hooks for laminate thickness 6.8 mm

139008-001 Safety hooks for laminate thickness 8 mm

prevents the module from sliding

134060-068 GS6 clamp scaled 6.8 mm laminate (for 6.8 mm laminate)

134060-168 GS6 clamp scaled 6.8 mm laminate M8x20
(with accessory M8x20)

134080-080 GS8 clamp scaled 8 mm laminate (for 8 mm laminate)

134080-180 GS8 clamp scaled 8 mm laminate M8x20
(with accessory M8x20)

*with no click component!
No certification for First Solar !

Notes

STANDARD PROFILES AND ACCESSORIES

Our products in the area: Standard profiles and accessories:
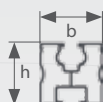
Rail series 05

Cable duct MaxK

Profile series 05
Standard profiles and accessories

Rail series 05

The profile series 05 for the proven Klick system with compatible accessories. Mount using square nuts, Klicksystem and Rapid2+
➲ **c.f. also structural analysis charts for cross beams**

Black anodized on request!

Module bearing rail Eco05

for narrow spans

Mechanical connection:
Top: Klick groove M8
Bottom: Screw channel M10

	b	h
	30 mm	30 mm

120001-001	Custom cut
120001-004	4 m
120001-006	6 m

Module-bearing profile SoloLight

Mechanical connection:
Top: Klick groove M8
Bottom: Screw channel M10

	b	h
	40 mm	40 mm

Cannot be combined
with 129009-xxx

120005-001	Custom cut
120005-004	4 m
120005-006	6 m
120005-06200	6.2 m

Module bearing rail Solo05

for wider spans

Mechanical connection:
Top: Klick groove M8
Bottom: Screw channel M10

	b	h
	40 mm	40 mm

120002-001	Custom cut
120002-004	4 m
120002-006	6 m
120002-06200	6.2 m
120002-906	black anodized (6 m)

Module bearing rail Profi05

Mechanical connection:
Top: Klick groove M8
Bottom: Screw channel M10

b	h
40/62 mm	40 mm

120003-001	Custom cut
120003-004	4 m
120003-006	6 m

with cable duct
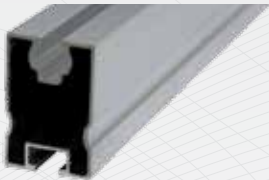
Module-bearing profile SoloPlus

Mechanical connection:
Top: Klick groove M8
Bottom: Screw channel M10

b	h
40 mm	60 mm

120006-001	Custom cut
120006-004	4 m
120006-006	6 m
120006-06200	6.2 m

Module bearing rail ProfiPlus05

Mechanical connection:
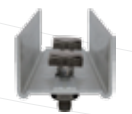Top: Klick groove M8
Bottom: Screw channel M10

b	h
40 mm	60 mm

120004-001	Custom cut
120004-004	4 m
120004-006	6 m

for wider spans

129001-002	U-connector Eco05, complete
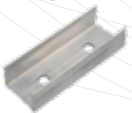
129002-000	Connector Solo or ProfiPlus, loose
129002-900	Configuration black anodized

129002-001	Connector Solo or ProfiPlus, pre-assembled
129002-901	Configuration black anodized

Profile series 05

Standard profiles and accessories

loose   pre-assembled
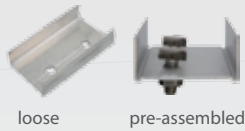
129003-000 Connector Profi, loose

129003-001 Connector Profi, pre-assembled

129001-003 Connector E Eco, pre-assembled

129002-002 Connector E Solo, SoloLight, ProfiPlus, FixZ-7, FixZ-15, pre-assembled
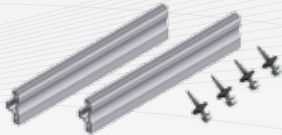
129003-002 Connector E Profi, pre-assembled

129026-000 Cross rail connector Solo05 and Profi05

for length compensation.
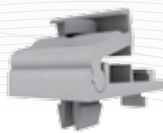Please note! Must not to be used within the module row!

129060-001 Insertion connector Solo / Profi kit

129004-000 KlickTop cross connector kit M8

with bolt, Klick and square nut for Klick groove M8
for cross rail systems

➲ **GridNorm product sheet**

129063-000 Rapid cross connector

Complete pre-assembled for click-groove M8
for cross rail systems
➲ **Product Sheet Rapid cross connector**

129039-000 Rail cross connector VA plate M10 / M10

Wide plate incl. screw kit M10 / M10
for special applications

129011-000 Plastic end cap Solo Profi05

Available with company logo on request with large volume orders.

Also available in **black.**
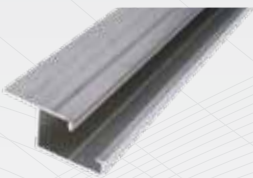
129061-001 Ridge connector kit

Cable duct Profi Solo Eco05

For the tidy and safe routing of cables - with cover
(see below); mechanical connection: Click in

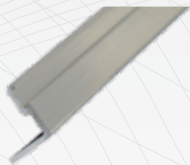**129007-001** Custom cut

129007-006 6 m

Cable duct Rechteck 25x40

With screw lug
For the tidy and safe routing of cables - with cover (see below); mechanical
connection: Self-drilling screws / M10 screws (drill holes!)

129008-001 Custom cut

129008-006 6 m

Cable duct cover

For cable ducts
Profi05, additional and rectangular cable duct increases protection, e.g.
against damage caused by martens. Cannot be combined with 120005-xxx

129009-001 Custom cut

129009-006 6 m

Accessories for profile series 05:

129010-008 KlickIn click component for nut M8

for simplified insertion of the M8 square nut
at any desired point of the M8 KlickIn groove

129012-008 Proklip-S rectangular cable clip channel M8

Rectangular, for insertion into the Klickin channel M8
to optimize cable routing

129012-010 Proklip2000-B rounded cable clip channel M10

Rounded, for insertion into the M10 screwing channel
to optimize cable routing

Profile series 05

Standard profiles and accessories

129065-008 Proklip-Multi 8

Rectangular, for insertion into the screw channel M8
to optimize cable routing

129065-010 Proklip-Multi 10

Rectangular, for insertion into the M10 screw channel
to optimize cable routing

129005-000 Proklip-C cable clip for Solo05 and Profi05

Rectangular for insertion into the upper and lower
screw channel for Solo05 and Profi05

135003-000 Lightning protection clamp for 8 mm

Alu completely pre-assembled (for wire diameter 8 mm)

Area of application

Parts from all Schletter rail groups can be combined for application on pitched
or flat roofs, and in open areas as well as with a variety of special systems.
Minimize raw materials requirements by selecting a rail from our wide range
of products to best fit your custom application!

Technical data

Material	Bolts: Quality steel 1.4301; rails: EN AW 6063 T66 / AlMgSi0.5 Sheet metal components: Stainless steel 1.4301
Statics	Structural analysis in accordance with current national stand-ards (in Germany DIN1055 and EC1). Appendices for dimen-sioning the number of required fastening points, based on structural analysis. Please ensure you observe the structural analysis information for each case. Verification for adhesive forces of a roof to the substructure is not included in any of the general structural analysis appendices!

System prices can be obtained quickly and easily with our Autokalkulator.
Please refer to our website: www.schletter.eu

Cable duct MaxK

Standard profiles and accessories

Mounting plan

Cable duct MaxK overview

The cable duct system for flexible mounting of string cabling.

129013-000	Cable duct MaxK, loose, 80x40x3000 mm
129013-001	Cable duct MaxK, loose, 120x40x3000 mm
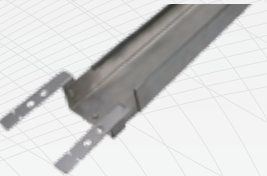
129018-000	MaxK Vario duct 80x40x600-1000 mm
129018-001	MaxK Vario duct 80x40x900-1300 mm
129018-002	MaxK Vario duct 120x40x600-1000 mm
129018-003	MaxK Vario duct 120x40x900-1300 mm

Extendable and can be mounted easily between the cross beams without being cut off.
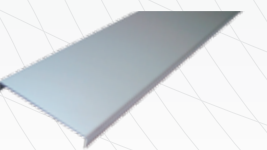
|	
129014-000	Cable duct cover MaxK 80x1000 for MaxK Vario 129018-000
129014-001	Cable duct cover MaxK 80x1300 for MaxK Vario 129018-001
129014-003	Cable duct cover MaxK 120x1000 for MaxK Vario 129018-002
129014-004	Cable duct cover MaxK 120x1300 for MaxK Vario 129018-003
129014-002	Cable duct cover MaxK 80x3000 for MaxK 129013-000
129014-005	Cable duct cover MaxK 120x3000 for MaxK 129013-001
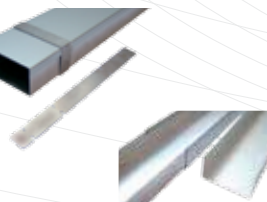
129015-000	Lid clip MaxK channel 80 or 120

129016-000	Slide connector MaxK channel 80
129016-001	Slide connector MaxK channel 120
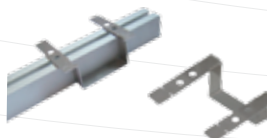
129017-000	Hook clip MaxK channel 80
129017-001	Hook clip MaxK channel 120

Standard profiles and accessories

43

SYSTEM-RELATED COMPONENTS

Our products in the area System-related components:

Inlay system
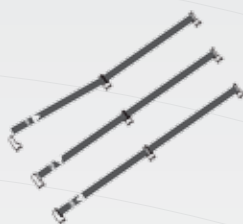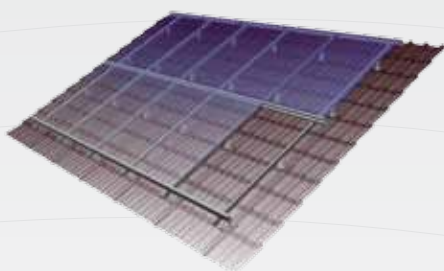
Plandach5

FixZ-7, FixZ-15

Inlay system
System-related components
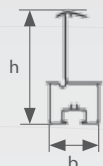
Inlay System Overview

The Schletter inlay system for roofs and open areas
⮞ **please also see the structural analysis charts for cross beams**

Important information

Modules with certification for a bespoke frame can be mounted in inlay systems, in so far as the certification is available. The module frame must be designed to withstand larger loads, as the unsupported span is much greater if the modules are mounted vertically.

Black anodized on request!

For roof applications

Mod-bearing rail RI 1 - b				
Module height	Profile length	Item number	b	h
40-42 mm	Custom cut	124806-001	40 mm	81 mm
	6 m	124806-006		
44-46 mm	Custom cut	124809-001	40 mm	85 mm
	6 m	124809-006		
50 mm	Custom cut	124803-001	40 mm	89 mm
	6 m	124803-006		
	8 m	124803-008		

Mechanical connection: Screw channel M10

Mod-bearing rail RI 1 - c				
Module height	Profile length	Item number	b	h
40-42 mm	Custom cut	124805-001	40 mm	83 mm
	6 m	124805-006		
44-46 mm	Custom cut	124808-001	40 mm	87 mm
	6 m	124808-006		
50 mm	Custom cut	124802-001	40 mm	92 mm
	6 m	124802-006		
	8 m	124802-008		

Mechanical connection: Screw channel M10

Mod-bearing rail RI 1 - t

Module height	Profile length	Item number	b	h
40-42 mm	Custom cut	124804-001	40 mm	80 mm
	6 m	124804-006		
44-46 mm	Custom cut	124807-001	40 mm	84 mm
	6 m	124807-006		
50 mm	Custom cut	124801-001	40 mm	89 mm
	6 m	124801-006		
	8 m	124801-008		

Mechanical connection: Screw channel M10
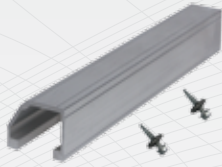
129057-001 Profile connector, loose, RI 1

129057-000 Profile connector, complete, RI 1, with self-drilling screws
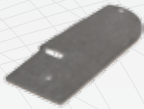
149021-001 Cover for module-bearing rail RI 1-b40-42

149022-001 Cover for module-bearing rail RI 1-b44-46

149003-001 Cover for module-bearing rail RI 1-b50

149021-003 Cover for module-bearing rail RI 1-c40-42

149022-003 Cover for module-bearing rail RI 1-c44-46

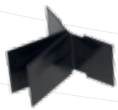**149003-003** Cover for module-bearing rail RI 1-c50

149021-002 Cover for module-bearing rail RI 1-t40-42

149022-002 Cover for module-bearing rail RI 1-t44-46

149003-002 Cover for module-bearing rail RI 1-t50

943000-329 Barbed clout nail A2

149004-000 Spacer Inlay system lower

149004-001 Spacer inlay system lower

Inlay system
System-related components
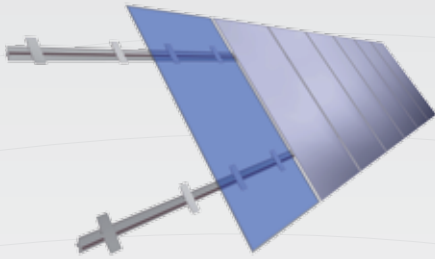
OptiBond

The bonding technique deployed as an optimal means of connecting large-surface modules, mechanically, to the substructure. For technical reasons, bonding of the OptiBond must be effected by the module manufacturer. Please contact your module manufacturer.

Module-bearing profile OptiBond

For module height 50 mm

			Width	Height
Mechanical connection:			40 mm	44 mm
Top:	OptiBond anchor			
Bottom:	Screw channel M10			

124702-001	Custom cut
124702-004	4 m
124702-006	6 m
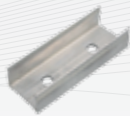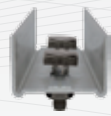
129002-000	Connector Solo or ProfiPlus, loose
129002-001	Connector Solo or ProfiPlus, pre-assembled

loose   pre-assembled

Plandach5

System-related components
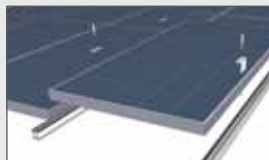
Mounting plan

Plandach5 overview

The Schletter in-roof system

Profile Plandach5

122001-001	Custom cut
122001-006	6 m

129032-000	Rubber underlay Plandach5 for the bearing profile of laminate modules
129033-000	Spacer rail Plandach5 at horizontal joints for laminate modules

129034-000	Plandach5 anti-slide kit for laminates

136201-040	Middle clamp Plandach5 kit for frames to 40 mm
136201-052	Middle clamp Plandach5 kit for frames to 52 mm
136101-0xx	End clamp Plandach5 custom kit for frames XX mm

136202-012	Middle clamp Plandach5 laminate kit for frames to 12 mm
136004-001	End clamp Plandach5 Laminate kit 6 and 8 mm

129035-000	Sealing washer Plandach5 molded component
	For utilization when mounting rails on the roof covering
943000-004	Sealing screw 4.9x35 for wooden substructure
943000-002	Sealing screw 6.5x50 for wooden substructure

BiPv 2-11 - project-specific

The new Schletter in-roof system fulfils all requirements for full integration of frameless modules. The system has been officially approved in France.
➲ **Product sheet and mounting instructions BiPv 2-11**

FixZ-7 and FixZ-15
System-related components

FixZ-7 and FixZ-15 Overview

Basic elevation

Assembly diagram

Black anodized on request!

FixZ-7 System rail top

Mechanical connection:		Width	Height
Top:	Klick groove M8	40 mm	130 mm
Bottom:	Screw channel M10		

121001-001	Custom cut
121001-004	4 m
121001-006	6 m

FixZ-7 System rail lower
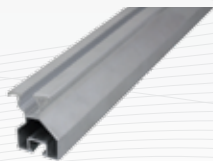
Mechanical connection:		Width	Height
Top:	Klick groove M8	40 mm	51 mm
Bottom:	Screw channel M10		

121002-001	Custom cut
121002-004	4 m
121002-006	6 m

129002-002	Connector E, pre-assembled
	For application above and below!
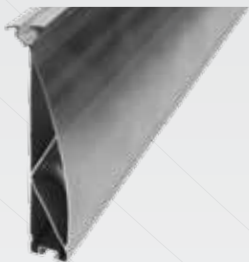
FixZ-15 System rail top

Mechanical connection:
Top: Klick groove M8
Bottom: Screw channel M10

Width	Height
40 mm	262 mm

121003-001 Custom cut	
121003-004 4 m	
121003-006 6 m	

FixZ-15 System rail lower 20

Clamping area approx 20% of the module height

Mechanical connection:
Top: Klick groove M8
Bottom: Screw channel M10

Width	Height
40 mm	76 mm

121004-001 Custom cut	
121004-004 4 m	
121004-006 6 m	

FixZ-15 System rail lower 25

Clamping area approx 25% of the module height

Mechanical connection:
Top: Klick groove M8
Bottom: Screw channel M10

Width	Height
40 mm	103 mm

121005-001 Custom cut	
121005-004 4 m	
121005-006 6 m	
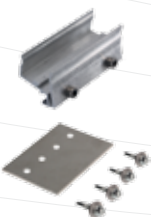
129002-002 Connector E, pre-assembled
For application above and below!

129019-001 Additional connector kit for FixZ-15 above
Also to be bolted to the profile!

FLAT ROOF SYSTEMS

Our products in the area Flatroof systems:

Supports and accessories

Flat roof systems

Flat roof systems

Flat roof systems

Application example

Any type of flat-roof supporting structure can be braced, depending on the sub-structure and the fastening method. This bracing can be added by the customer or can be ordered specifically with the system if required! Custom dimensions, elevation angles etc. on request.

Mounting beam

Series07   Flex Console

base rail

Light U   Light N   Profi U

Supports, 30 degrees
other angles available on request

Flat roof support Eco U12 (30 degrees, alu. bolted)

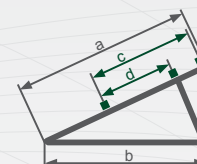| 07 series	Module height	a	b	c	d
150004-100	approx. 1000 mm	965 mm	841 mm	530 mm	360 mm
150004-130	approx. 1300 mm	1195 mm	995 mm	850 mm	600 mm
150004-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Light U (30 degrees, alu. bolted)

07 series	Module height	a	b	c	d
150001-100	approx. 1000 mm	965 mm	841 mm	530 mm	360 mm
150001-130	approx. 1300 mm	1195 mm	995 mm	850 mm	600 mm
150001-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Light U (30 degrees, alu, bolted)

Flex Console	Module height	a	b	c	d
150101-100	approx. 1000 mm	965 mm	841 mm	530 mm	360 mm
150101-130	approx. 1300 mm	1195 mm	995 mm	850 mm	600 mm
150101-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Light N (30 degrees, alu, bolted)

07 series	Module height	a	b	c	d
150002-100	approx. 1000 mm	965 mm	841 mm	530 mm	360 mm
150002-130	approx. 1300 mm	1195 mm	995 mm	850 mm	600 mm
150002-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Light N (30 degrees, alu, bolted)

Flex Console	Module height	a	b	c	d
150102-100	approx. 1000 mm	965 mm	841 mm	530 mm	360 mm
150102-130	approx. 1300 mm	1195 mm	995 mm	850 mm	600 mm
150102-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Profi U (30 degrees, alu, bolted)

07 series	Module height	a	b	c	d
151001-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Profi U (30 degrees, alu. bolted)

Flex Console	Module height	a	b	c	d
151101-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Profi N (30 degrees, alu. bolted)

07 series	Module height	a	b	c	d
151002-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Profi N (30 degrees, alu. bolted)

Flex Console	Module height	a	b	c	d
151102-150	approx. 1500 mm	1445 mm	1390 mm	960 mm	690 mm

Flat roof support Profi U (30 degrees, alu. bolted)

07 series	Module height	a	b	c	d
151001-180	approx. 1800 mm	1815 mm	1800 mm	- -	990 mm
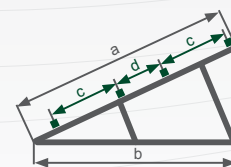
Flat roof support Profi U (30 degrees, alu. bolted)

07 series	Module height	a	b	c	d
151001-220	approx. 2200 mm	2200 mm	1995 mm	747 mm	460 mm

Flat roof support Profi U (30 degrees, alu. bolted)

Flex Console	Module height	a	b	c	d
151101-220	approx. 2200 mm	2200 mm	1995 mm	747 mm	460 mm

Flat roof support Profi N (30 degrees, alu. bolted)

07 series	Module height	a	b	c	d
151002-220	approx. 2200 mm	2200 mm	1995 mm	747 mm	460 mm

Flat roof support Profi N (30 degrees, alu. bolted)

Flex Console	Module height	a	b	c	d
151102-220	approx. 2200 mm	2200 mm	1995 mm	747 mm	460 mm

Supports and accessories

Flat roof systems

Flat roof support XL (30 degrees, alu. bolted)

07 series	Module height	a	b	c	d
155001-300	approx. 3000 mm	2995 mm	2795 mm	1000 mm	700 mm
155001-320	approx. 3200 mm	3195 mm	2795 mm	about 1080 mm	733 mm
155001-360*	approx. 3600 mm	3595 mm	3495 mm	variable drill-hole	

3-row arrangement possible

### Flat roof support XL (30 degrees, alu. bolted)

Flex Console	Module height	a	b	c	d
155101-300	approx. 3000 mm	2995 mm	2795 mm	1000 mm	700 mm
155101-320	approx. 3200 mm	3195 mm	2795 mm	about 1080 mm	733 mm
155101-360*	approx. 3600 mm	3595 mm	3495 mm	variable drill-hole	

3-row arrangement possible

Flat roof support FlexXXL (Alu, bolted)

Flex Console	Module height	Elevation angle	a	b
155102-001	approx. 5400 mm	15 degrees	5205 mm	5430 mm
155102-002	approx. 5400 mm	20 degrees	5205 mm	5430 mm
155102-003	approx. 5400 mm	25 degrees	5205 mm	5430 mm
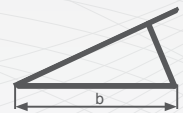
Hole spacing in mm

Module height approx.	1000	1300	1500	1800	2200	3000/3200	3600	5400
Base rail (b)	841	995	1390	1800	1995	2795	3495	5430
Dimensioned drawing	1	1	1	1	1	2	3	4
A	537	635	940	1350	1525	2275	2975	1765
B	757	855	1160	1570	1715	2495	3195	230
C						1310	1543	1480
D							110	305
E								1350

The slotted holes in the base rail allow for a mounting tolerance of +/- 8 mm.
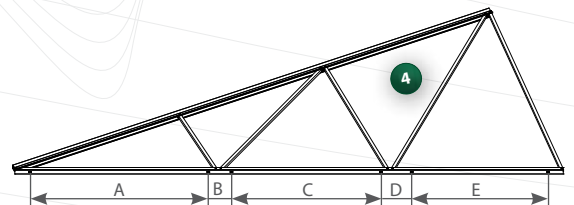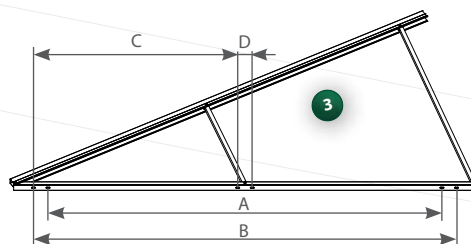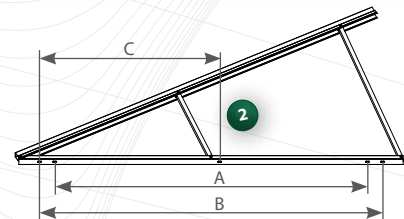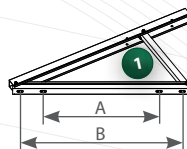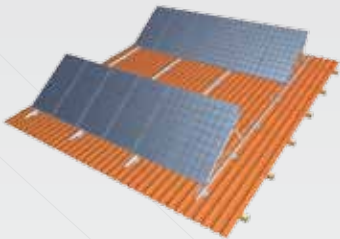
Upper support components for application with systems incorporating continuous beams

So-named fittings kits must be considered when compiling and ordering systems.

Flat roof support upper part Eco 12

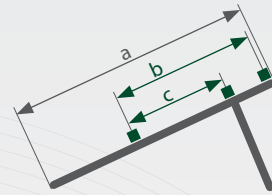| 07 series	Module height	a	b	c
150003-000	approx. 1000 mm	965 mm	530 mm	360 mm
150003-001	approx. 1300 mm	1195 mm	850 mm	600 mm
150003-002	approx. 1500 mm	1445 mm	960 mm	690 mm

Flat roof support upper part Light

07 series	Module height	a	b	c
150003-000	approx. 1000 mm	965 mm	530 mm	360 mm
150003-001	approx. 1300 mm	1195 mm	850 mm	600 mm
150003-002	approx. 1500 mm	1445 mm	960 mm	690 mm

Flat roof support upper part Light

Flex Console	Module height	a	b	c
150103-000	approx. 1000 mm	965 mm	530 mm	360 mm
150103-001	approx. 1300 mm	1195 mm	850 mm	600 mm
150103-002	approx. 1500 mm	1445 mm	960 mm	690 mm

Flat roof support upper part Profi

07 series	Module height	a	b	c
151003-000	approx. 1500 mm	1445 mm	960 mm	690 mm

Flat roof support upper part Profi

Flex Console	Module height	a	b	c
151103-000	approx. 1500 mm	1445 mm	960 mm	690 mm
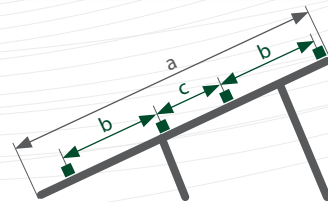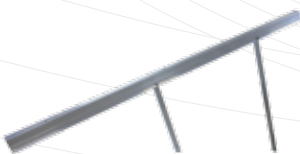
Flat roof support upper part Profi

07 series	Module height	a	b	c
151003-001	approx. 2200 mm	2200 mm	747 mm	460 mm

Flat roof support upper part Profi

Flex Console	Module height	a	b	c
151103-001	approx. 2200 mm	2200 mm	747 mm	460 mm

Flat roof systems

Supports and accessories
Flat roof systems

Auxiliary equipment / accessories

So-named fittings kits must be considered when compiling and ordering systems.

159000-002	Fastening kit 07 for CompactVario basic
	for mounting support upper parts to the bottom beam
129004-000	KlickTop cross connector kit M8
	For fastening the cross beam to the mounting beam

Windsafe (project-specific)

Rear-wall covering for elevated photovoltaic plants to minimize wind loads Also available in **black** on request.
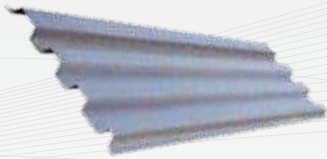
164160-180	Windsafe Vario Alu 160x1830 mm
164250-180	Windsafe Vario Alu 250x1830 mm
164500-180	Windsafe Vario Alu 500x1830 mm
164160-200	Windsafe Vario Alu 160x2030 mm
164250-200	Windsafe Vario Alu 250x2030 mm
164500-200	Windsafe Vario Alu 500x2030 mm
164160-220	Windsafe Vario Alu 160x2230 mm
164250-220	Windsafe Vario Alu 250x2230 mm
164500-220	Windsafe Vario Alu 500x2230 mm
159000-150	Tens. strut 1500 mm kit diagonal bracing
	Length approx. 1.5 m
159000-200	Tens. strut 2000 mm kit diagonal bracing
	Length approx. 2.0 m
159000-250	Tens. strut 2500 mm kit diagonal bracing
	Length approx. 2.5 m
159000-300	Tens. strut 3000 mm kit diagonal bracing
	Length approx. 3.0 m
159000-400	Tens. strut 4000 mm kit diagonal bracing
	Length approx. 4.0 m
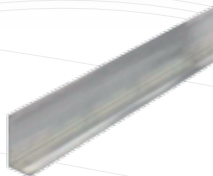
Kit with self-drilling screws
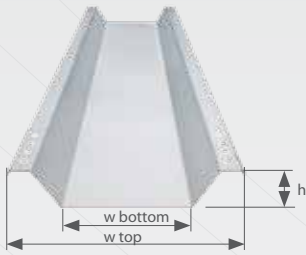
Support accessories

SolTub (Alu tray system
for gravel loading)
Gravel tray: Standard length 2.2 m

	w bottom	w top	h
SolTub S	227 mm	428 mm	77 mm
SolTub L	332 mm	588 mm	130 mm

161001-000 SolTub S Gravel tray

For 36kg pro m, 2.2 m (small)

161002-000 SolTub L Gravel tray

For 92kg pro m, 2.2 m (large)

161001-001 SolTub S End cover

161002-001 SolTub L End cover

159000-007 concrete block loading kit, Alu

for loading with concrete slabs or similar
- in pairss incl. 2 screw kit

160001-000 SolRack Plastic tray kit

compatible with all support designs,
for loading with existing
gravel or concrete slabs.
incl. screw kit for fastening
Material thickness: 8 mm
Surface area: 0.96 m^2

160002-001 SolRack Alu (1 plate)

Material thickness: 1 mm
Surface area: 0.55 m^2
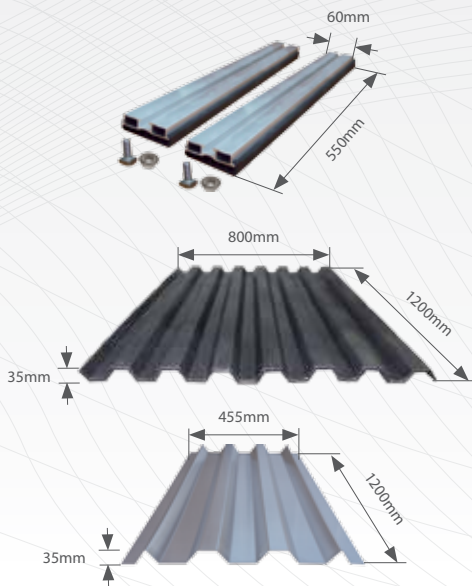
Accessory SolRack Alu

(order 2 pieces for each plate!)

943610-025 Bolt M10x25 hex. head DIN933 A2 GMB

943922-010 Underlay plate large M10 DIN9021 A2

943912-010 Locking flange nut M10 DIN6923 A4

Supports and accessories
Flat roof systems

For DNO

1000 mm

125 mm

For DN1

500 mm

162001-000 Sol Cube kit

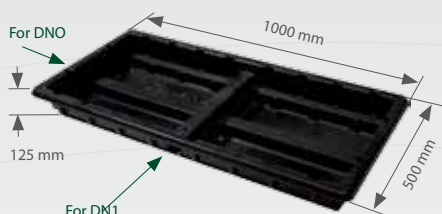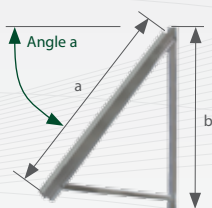Compatible with all designs, for loading with
gravel or with concrete slabs.,
incl. screw kit for fastening

162001-001 Sol Cube (no accessories)

Special supports

Facade support with 15, 20, 25 [...5°-increments], 70, 75 degrees
To select the support angle (angle a), please specify the module inclination
relative to the horizontal - aluminium, screwed

Angle a

a

b

Facade support				
		Module height	a	b
156001-100	Light 10	approx. 0.8-1.0 kg	820 mm	840 mm
156001-130	Light 13	approx. 1.0-1.3 kg	1050 mm	1050 mm
156001-160	Light 16	approx. 1.3-1.6 m	1285 mm	1260 mm
156002-160	Profi 16	approx. 1.3-1.6 m	1285 mm	1260 mm

Vegetated-roof support for modules of up to 1.6 m at 15, 20, 25, 30 degrees
Please state the desired inclination!
Aluminum, bolted;
approx. 0.4 m ground clearance
Length of the module angle: approx. 1.5 m
compatible accessories: as for support Profi

152001-000 Vegetated-roof support for modules of up to 1.6 m

154001-000 Vegetated roof support for CompactVario kit (incl. fittings kits)

153001-000 Flat roof or bottom support VarioTop (10 to 60 degrees)

The variable support with summer and winter settings!
10% more annual yield with one-off time re-set
in spring and in autumn!

AluGrid (project-specific)

Material and tool-optimized system by which modules are fastened to flat
roofs in closed rows with a fixed elevation angle of 15 degrees or, alternatively,
10 degrees with minimal ballast.
⮌ Prospekt AluGrid (incl. component overview)
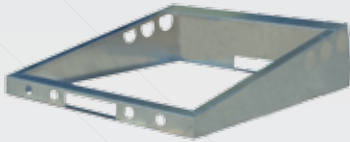
AluLight kit

The basic 12-degree elevation for flat roof. Only possible if standard module clamps are used. Concrete slabs are used for loading.

AluLight kit		
	for module width	for module length
165004-001	790-890 mm	1200-1599 mm
165004-002	890-990 mm	1200-1599 mm
165004-003	990-1090 mm	1200-1599 mm
165001-001	790-890 mm	1600-2000 mm
165001-002	890-990 mm	1600-2000 mm
165001-003	990-1090 mm	1600-2000 mm

AluLight support chassis for edge zones

AluLight with only 330 mm for edge zones

AluLight support chassis for edge zones		
	for module width	for module length
165003-001	790-890 mm	1200-2000 mm
165003-002	890-990 mm	1200-2000 mm
165003-003	990-1090 mm	1200-2000 mm

Windsafe AluLight

Compatible Windsafe designs for AluLight

Windsafe AluLight		
	for module width	for module length
169001-001	790-890 mm	1200-1599 mm
169001-002	890-990 mm	1200-1599 mm
169001-003	990-1090 mm	1200-1599 mm
169001-004	790-890 mm	1600-2000 mm
169001-005	890-990 mm	1600-2000 mm
169001-006	990-1090 mm	1600-2000 mm

169003-001 AluLight TF 600x1200 kit

For laminates of 600x1200 mm

Arrangement: 2 x module - horizontal

169004-001 surface protection mat 1m x 10m, 6mm

with alu lamination

SPECIAL-PROFILES

Our products in the area: Special profiles:
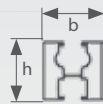
Rail series DN

Profile series DN
special profiles

Available lengths	
m	inches
6	236
and customized lengths	

Profile series DN Overview

Double groove profiles available with a variety of span widths as load distribution beams and continuous beams for the different systems, e.g. cross rail mounting, CompactVario, CompactGrid
Optimal combination potential with the well-proven Klick-system.

Black anodized on request!

Mounting beam DN0

Mechanical connection:
Top: Klick groove M10
Bottom: Screw channel M10

Width	Height
40 mm	40 mm

123001-001 Custom cut

123001-006 6 m

Mounting beam DN1

Mechanical connection:
Top: Klick groove M10
Bottom: Screw channel M10

Width	Height
40 mm	80 mm

123002-001 Custom cut

123002-006 6 m

Mounting beam DN2.5

Mechanical connection:
Top: Klick groove M10
Bottom: Screw channel M10

Width	Height
50 mm	110 mm

123004-001 Custom cut

123004-006 6 m

Mounting beam DN3

Mechanical connection:
Top: Klick groove M10
Bottom: Screw channel M10

Width	Height
80 mm	120 mm

123005-001	Custom cut
123005-006	6 m
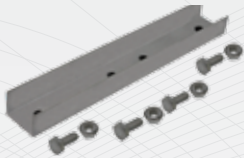
Accessories for profile series DN:

129025-000 Connector profile DN0 DN1 kit

incl. bolts and nuts

129006-000 Insertion connector DN1 kit

incl. safety screws

129029-000 Insertion connector DN 2.5 kit

incl. safety screws

129030-000 Connector profile DN3 kit

incl. bolts and nuts

129023-000 Dowel clamp DN0/Solo05

for special applications

129024-000 Dowel clamp DN1

for special applications

Profile series DN
special profiles

129004-001 KlickTop cross connector kit M10
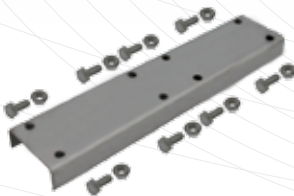
with bolt, Klick and square nut for Klick groove M10
suitable for DN0 and DN1

➲ Product Sheet GridNorm

129010-001 KlickIn click component for nut M10

for simplified insertion of the square nut M10
at any desired point along the M10 KlickIn-groove

129012-010 Proklip2000-B rounded cable clip channel M10

Rounded, for insertion into the M10 screwing channel
to optimize cable routing

129065-010 Proklip-Multi 10

Rectangular, for insertion into the M10 screw channel
to optimize cable routing

Area of application

Parts from all Schletter profile groups can be combined for application on pitched or flat roofs, and in open areas as well as with a variety of special systems. Minimize raw materials requirements by selecting a profile from our wide range of products to best fit your custom application!

Technical data

Material	Bolts: Quality steel 1.4301; profiles: EN AW 6063 T66 / AlMgSi0.7 Sheet metal components: Stainless steel 1.4301
Statics	Structural analysis in accordance with current national standards (in Germany DIN1055 and EC1). Appendices for dimensioning the number of required fastening points, based on structural analysis. Please ensure you observe the structural analysis information for each case. Verification for adhesive forces of a roof to the substructure is not included in any of the general structural analysis appendices!

System prices can be obtained quickly and easily with our Autokalkulator. Please refer to our website: www.schletter.eu

Notes

LARGE PROJECTS

Large-scale projects

SystemFS, PvMax3, Park@Sol, IsoTop

Large projects

Large-scale projects
SystemFS, PvMax3, Park@Sol, IsoTop

Large projects are individually calculated and are compiled in-house prior to dispatch.
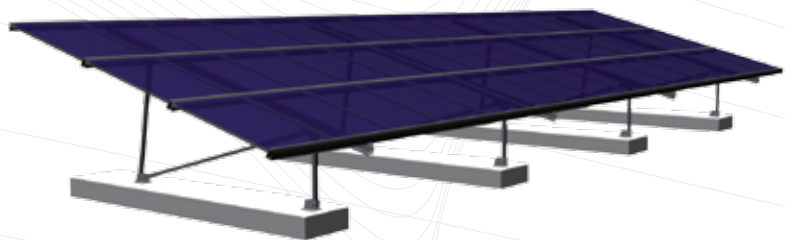We are looking forward to your inquiry!

Open area - SystemFS, PvMax3

Each FS open area system is custom-designed for assembly in its designated location. In addition to the pile-driving technology of the FS system, a concrete foundation system is also available with the PvMax3.

⮡ Product /mounting sheets FS/PvMax3
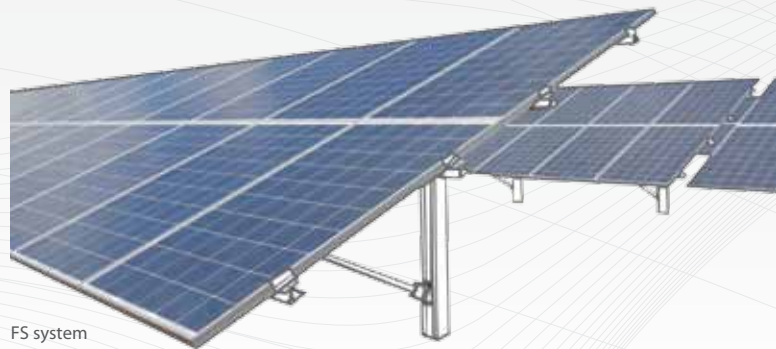
FS system

PvMax3

Carports - Park@Sol

Solar carports provide a welcome supplement of power for wide-area utilization of photovoltaic energy, particularly as carport roof surfaces are generally granted maximum compensation, according to the Renewable Energy Sources Act!

⮂ Product sheet Park@Sol

Park@Sol
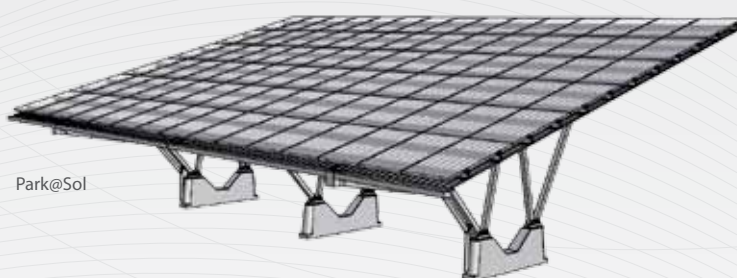
Industrial Foil Roof – IsoTop

The substructure of an industrial foil roof generally has very large distances between girders.. The IsoTop system with support distances of up to 10m allows for project-specific solutions requiring no additional loading of the roof covering.

⮂ IsoTop Product sheet

IsoTop
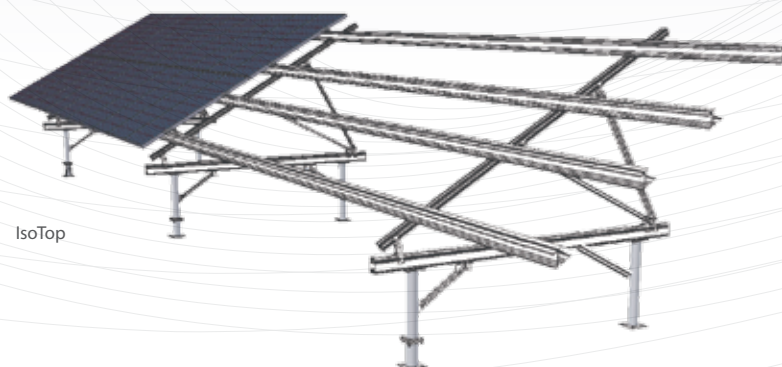
SCREWS, BOLTS AND ACCESSORIES

Screws, bolts and accessories

Hexagon head screw, VA

943608-025 M8x25	
943610-020 M10x20	
943610-025 M10x25	
943610-030 M10x30	
943610-035 M10x35	
943610-100 M10x100	

Hexagon head screw, VA

943410-025 M10x25	

Carriage bolt, VA

943510-020 M10x20	
943510-025 M10x25	

Serrated flange nut with integrated anti-twist device in the flange, VA

943912-008 M8	
943912-010 M10	
943912-012 M12	

Hexagon nut, VA

943916-008	M8
943916-010	M10
943916-012	M12

Washer, VA

943921-008	M8
943921-010	M10
943921-012	M12

Large washer, VA

943922-008	M8
943922-010	M10
943922-012	M12

Hexagon socket head screw

943308-120	M8x20 with underhead serration
943308-125	M8x25 with underhead serration
943308-130	M8x30 with underhead serration
943308-135	M8x35 with underhead serration
943308-040	M8x40
943308-055	M8x55
943308-060	M8x60

943000-034	SecuFix anti-theft device for hexagon socket head screw M8
182003-000	SecuFix steel ball for TX T40 5.00 mm (Rapid)
	This is simply hammered into the socket head!
182001-000	Hammering tool for SecuFix anti-theft device
182001-001	Hammering tool SecuFix für TX 5 mm
182002-000	SecuFix2 Anti-theft device kit for an even higher level of protection

Screws and accessories

943914-008 Square nut M8, V4A

Compatible with all Schletter system rails in combination with Klick-groove and Klickin click components

943914-010 Square nut M10, V4A

943914-108 Special square nut M8, V4A (design as with M10)

Compatible with all Schletter system rails, can be combined with click-groove M10 and KlickIn click components

Self-locking nut, V4A

943911-008 M8

943911-010 M10

943911-012 M12

Locking washer, VA

943931-008 M8

943931-010 M10

943931-108 M8 extra narrow
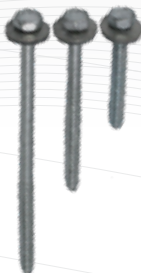
Self-tapping thread screw

for steel < 2 mm

943765-050 6.5x50

943765-075 6.5x75

943765-100 6.5x100

943765-125 6.5x125

943765-150 6.5x150

943765-200 6.5x200

for steel > 1.5 mm

943718-064 8x64

943718-100 8x100

943718-125 8x125 - on request

943718-150 8x150
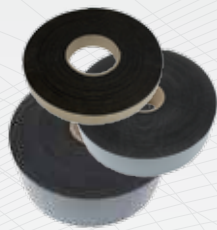
943718-200 8x200 - on request

Drilling screws with seal

943706-025 6.0x25 self drilling JT3-2 A2 (e.g. for Windsafe)	
943755-925 5.5x25 self drilling JT3-2 A2 (e.g. for connector)	
943000-360 6.0x25 self-tapping A2	
943000-700 JF3-2- 5.5x25 E16 A2	

EPDM-rubber inlay 3 mm self-adhesive, 10m-roll, UV-resistant

for example for clamps for trapezoidal sheet metal, or for laminate modules.

973000-013 25 mm wide	
973000-014 48 mm wide	
973000-015 80 mm wide	

Wood screw

We recommend at least 80 mm for unboarded roofs, and for roofs with boarding and counter battens at least 120 mm!

Wood screw VA

943108-080 8x80	
943108-100 8x100	
943108-120 8x120	
943108-150 8x150	
943108-200 8x200	

Galvanized wood screw

942108-080 8x80	
942108-100 8x100	
942108-120 8x120	
942108-150 8x150	
942108-200 8x200	

Screws, bolts and accessories

Flat-headed wood screw VA 1.4301

943208-080	8x80
943208-100	8x100
943208-120	8x120
943208-160	8x160
943208-200	8x200
943208-240	8x240
943208-260	8x260
943208-300	8x300
943208-340	8x340
943208-360	8x360
943208-400	8x400

Galvanized, flat-headed wood screw

942208-080	8x80
942208-100	8x100
942208-120	8x120
942208-160	8x160
942208-200	8x200
942208-240	8x240
942208-260	8x260
942208-300	8x300
942208-340	8x340
942208-360	8x360
942208-400	8x400

195000-002	Bit for TX T40
	For flat head wood screws, compatible with Rapid^{2+} and more recent systems
990000-211	Coupling shank with magnet
	compatible with TX T40-Bit, Length: 200 mm
195000-001	Ratchet wrench SW15
	Compatible with flange nut M10
195000-018	Core drill 17mm
195000-019	Core drill 21 mm
195000-017	Schletter tool kit
	➲ Schletter tool kit product sheet

182019-001 PvSpin

Quick, protective surface cleaning of PV modules

➲ Product sheet PVSpin

Brochures

Current version

I400001GB	Mounting and project planning
I400079GB	System structural analysis- Basic design for pitched roof
I400080GB	System structural analysis- Basic design for pitched roof
	System structural analysis - Complete design, including all appendices
	(on payment of a nominal charge)

I113001GB	Service program Autokalkulator
	with all current price lists, available in 5 languages
	Service program shade calculation
	For flat roof

I400116MS	Info-CD with documentation and product images
	On request

Trade fair Rollups

|	
I400276GB	"AluGrid"
	approx 1x2 m., rollable
I400084GB	"Tilted system"
	approx 1x2 m., rollable
I400082GB	"Ground mount"
	approx 1x2 m., rollable
I400116GB	"IsoTop"
	approx 1x2 m., rollable
I400114GB	"Park@Sol"
	approx 1x2 m., rollable
I400083GB	"Pitched roof"
	approx 1x2 m., rollable

Sample case

Current version

195000-004 Sample case

Contains examples of current Schletter mounting system products
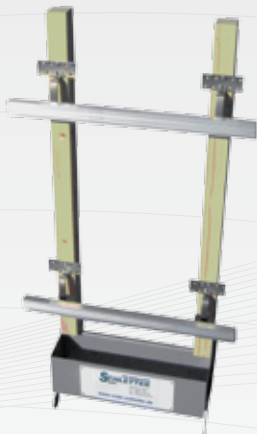
Module stand

Module stand with metal base and wooden supports incl. fastening kit for module. Please specify module type with the order!

195000-007 Module rack, wood for 1 module

195000-008 Module rack, alu for 1 module

Notes

Innovations 2013
Enhanced unit assembly system

Wide range of products

We are continually improving and enhancing our product range in order to meet individual requirements. Greater load-bearing capacity, conformity with further models of tile and optimized mounting capability are the focal objectives when enhancing our fasteners.
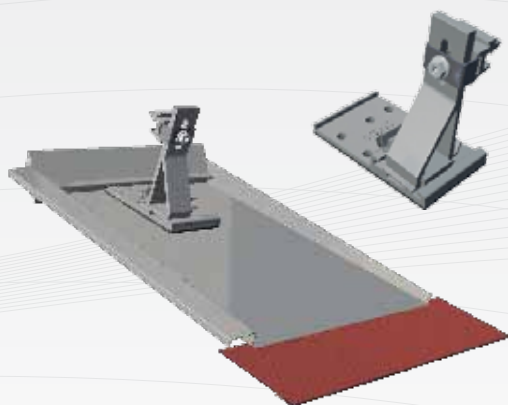
Alu-Tile

The robust substitute tile Alu-Tile can be mounted easily and quickly and is available for any type of tiled roof.

The newly developed system hook facilitates both horizontal and vertical rack arrangement.

Cross connector Rapid

Simple and uncomplicated mounting - the KlickTop cross connector is assembled and mounted easily. And now Schletter has developed this system even further. The result is the Rapid cross connector. As with its predecessor, the fastener can be deployed from above into any Schletter rail with a Klick groove. Where the KlickTop solution comprises two components, its successor has only one. The cross connector can therefore be delivered in large volumes.

Rapid 2L kit

Certain roof systems, found primarily in the Benelux countries, do not use the type of wooden rafters and purlins commonly found elsewhere in roof constructions. Self-supporting, insulating roofing elements are laid vertically instead to create a roofing framework. These elements consist mainly of thick-walled insulation held in place at the edges by wooden rafters. The conventional type of roof hook cannot be used with these roof systems as these cannot be fastened to the narrow edge-rafters.

Kit systems comprising roof hooks hung from a tile or batten provide no alternative in such cases as these roof systems are not able to withstand load on the tiles. The new Rapid 2L roof hook system solves this problem in that it diverts the forces into the vertical wooden rafters via a specifically designed mounting kit.
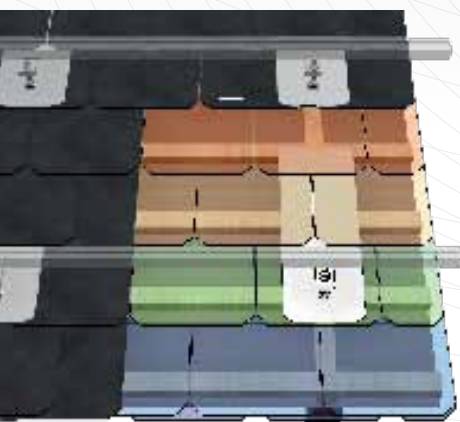
SlatePlan

SlatePlan was designed for roofs with a shingle covering, e.g. of bitumen, eternit or slate. These are fastened using our proven hanger-bolt systems. SlatePlan is incorporated into an existing shingle roof system in order to seal holes drilled to accommodate the hanger bolts. A sealing ring applied to the underside also prevents penetration of water from the sides.

SlatePlan is anchored to the bearing wood substructure together with the hanger bolt. Optimal sealing properties are thus achieved with minimal assembly effort.

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E-mail: seminar@schletter.de

For a comprehensive and competent
consulting in the planning of your
plant and for questions concerning
logistics and order processing, our
members of staff are available from
Monday to Friday from 7 am to 5 pm.

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