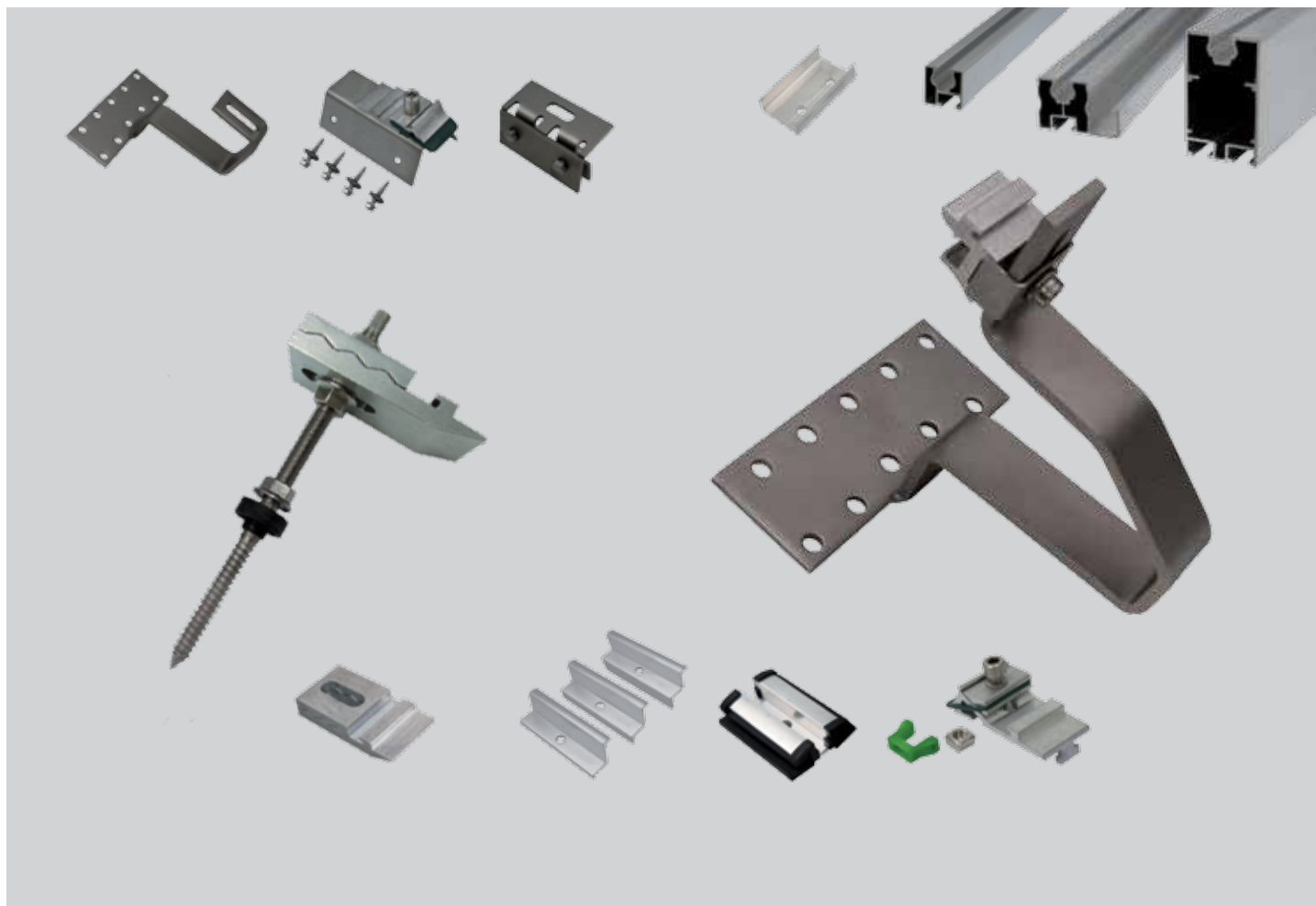




Schletter Solar Mounting Systems Component overview

with new
item numbers!

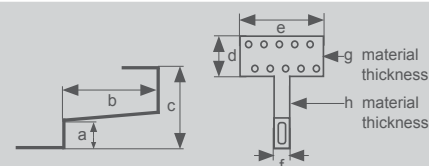
Contents		Page
1	Fixation elements	
	Roof hooks	3
	Fixation on corrugated roofs	9
	Standing seam clamps	11
	FixE / FixT	13
2	Module clamps	
	for framed modules	15
	for unframed modules	17
3	Standard profiles and accessories	
	Profile series 05	19
	Cable duct MaxK	22
4	System-related components	
	Plandach5	23
	FixZ-7	24
5	Flat roof systems	
	Supports and accessories	25
6	Special profiles	
	Profile series DN	29
	Profile series GP	31
7	Open area systems	
	PvMax3	33
8	Screws and accessories	34
9	Item number	
	Overview of changes	38

Roof hook overview

Brochure

- all roof hooks are made of quality steel
- completely pre-assembled adjustable hooks

Wood screws, hexagon nuts (M10x25mm/ 1 inches) and flange nuts have to be ordered separately!



Dimensional drawing to the charts



Mounting scheme

Roof hooks for low snow loads and normal wind loads

VA-quality, welded, symmetric bar arrangement

100002-000

(400 872)

Roof hook Eco G

	a	b	c	d	e	f	g	h
mm	45	110	132	60	150	30	5	5
inches	1.77	4.33	5.20	2.36	5.91	1.18	0.20	0.20



100003-000

(400 872-V)

Roof hook Eco V (adjustable)

	a	b	c	d	e	f	g	h
mm	45	105	117-147	60	150	30	5	5
inches	1.77	4.13	4.61-5.79	2.36	5.91	1.18	0.20	0.20



Roof hooks for higher snow loads and higher wind loads

VA-quality, welded, symmetric bar arrangement

In different sizes for a better rear airing.

100004-000

(400 872-135)

Roof hook Eco S 135 (normal height 135mm)

	a	b	c	d	e	f	g	h
mm	45	110	135	60	150	35	5	6
inches	1.77	4.33	5.31	2.36	5.91	1.38	0.20	0.24

100004-001 Roof hooks Eco S 135 KlickTop



KlickTop

100007-000

(400 872-165)

Roof hook Eco S 165 (special height 165mm)

	a	b	c	d	e	f	g	h
mm	45	110	165	60	150	35	5	6
inches	1.77	4.33	6.50	2.36	5.91	1.38	0.20	0.24



100008-000

(400 872-195)

Roof hook Eco S 195 (special height 195mm)

	a	b	c	d	e	f	g	h
mm	45	110	195	60	150	35	5	6
inches	1.77	4.33	7.68	2.36	5.91	1.38	0.20	0.24



100009-000

(400 876)

Roof hook Eco SV (extra stable, adjustable)

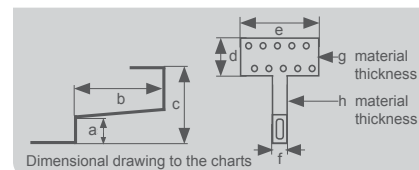
	a	b	c	d	e	f	g	h
mm	45	110	120-150	60	150	35	5	6
inches	1.77	4.33	4.72-5.91	2.36	5.91	1.38	0.20	0.24

100009-001 Roof hooks Eco SV KlickTop



KlickTop

Eco S Special designs on the following page



Special design of the roof hook Eco S 135

100004-002
(400 872-R)

Roof hook Eco S 135 right-sided design (bar arrangement at the right)

100006-000
(400 872-35)

Roof hook Eco S 135 35 mm (for low battens a=35 mm / 1.38 inches)

100005-000
(400 872-135-130)

Roof hook Eco S 135 bar 130 (for big tile designs b=130 mm / 5.12 inches)

Roof hooks for especially heavy snow loads

VA-quality, welded, symmetric bar arrangement

100010-000
(430 870)

Roof hook VaMax

	a	b	c	d	e	f	g	h
mm	45	120	145	80	180	35	6	8
inches	1.77	4.72	5.71	3.15	7.09	1.38	0.24	0.31

100010-001 **Roof hook VaMax KlickTop**



KlickTop

100011-000
(430 871)

Roof hook VAMax adjustable

	a	b	c	d	e	f	g	h
mm	45	120	125-165	80	180	35	6	8
inches	1.77	4.72	4.92-6.50	3.15	7.09	1.38	0.24	0.31

100011-001 **Roof hook VaMax KlickTop adjustable**



KlickTop

Roof hook Universal

VA-quality, variable bar arrangement,
Adjustable at the front and at the back,
Middle bar can be placed in 3 positions

100001-000
(400 830)

Roof hook Universal (Frankfurter pantile or interlocking tiles)

	a	b	c	d	e	f	g	h
mm	37-47	115	78-125	75	150	30	5	6
inches	1.46-1.85	4.53	3.07-4.92	2.95	5.91	1.18	0.20	0.24

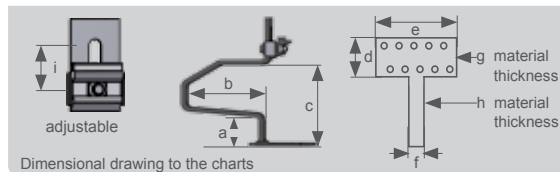
100001-001 **Roof hook Universal KlickTop**



KlickTop

Rapid²⁺ Roof hooks

VA-quality, welded,
Symmetric bar arrangement,
pre-assembled



101001-000

(430 800)

Roof hook Rapid2+ 45

	a	b	c	d	e	f	g	h	i
mm	45	110	116	60	150	35	5	6	30
inches	1.77	4.33	4.57	2.36	5.91	1.38	0.20	0.24	1.18

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



101001-001

(430 801)

Roof hook Rapid2+ 45V

Like 101001-000, but for vertical rail mounting

	a	b	c	d	e	f	g	h	i
mm	45	110	116	60	150	35	5	6	30
inches	1.77	4.33	4.57	2.36	5.91	1.38	0.20	0.24	1.18

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



101002-000

(430 802)

Roof hook Rapid2+ 35

Like 101001-000, but 35 mm/1.38 inches bracket height for low battens

	a	b	c	d	e	f	g	h	i
mm	35	110	116	60	150	35	5	6	30
inches	1.38	4.33	4.57	2.36	5.91	1.38	0.20	0.24	1.18

Comparable to: Eco-S 100006-000



101003-000

(430 803)

Roof hook Rapid2+ 55

Like 101001-000, but 55 mm/2.17 inches bracket height for high battens or big tile sizes

	a	b	c	d	e	f	g	h	i
mm	55	110	116	60	150	35	5	6	30
inches	2.17	4.33	4.57	2.36	5.91	1.38	0.20	0.24	1.18



101004-000

(430 804)

Roof hook Rapid2+ Universal

Universally adjustable

	a	b	c	d	e	f	g	h	i
mm	40-54	110	116	60	150	35	5	6	30
inches	1.57-2.13	4.33	4.57	2.36	5.91	1.38	0.20	0.24	1.18

Comparable to: Universal 100001-000



101005-000

(430 805)

Roof hook Rapid2+ Max

Like 101001, but bar 35x8 mm/1.38x0.31 inches for heavy snow loads

	a	b	c	d	e	f	g	h	i
mm	45	120	116	60	150	35	6	8	30
inches	1.77	4.72	4.57	2.36	5.91	1.38	0.24	0.31	1.18

Comparable to: VaMax 100010-000, 100010-001, 100011-000, 100011-001



101006-000

(430 806)

Roof hook Rapid2+ MaxV

Like 101005-000, but for vertical rail mounting

	a	b	c	d	e	f	g	h	i
mm	45	120	116	60	150	35	6	8	30
inches	1.77	4.72	4.57	2.36	5.91	1.38	0.24	0.31	1.18

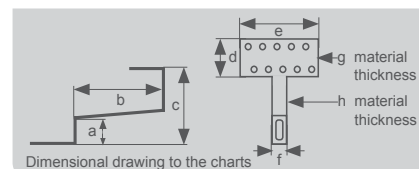
Comparable to: VaMax 100010-000, 100010-001, 100011-000, 100011-001



Special roof hooks Slate/Prefa

VA-quality, without plate

In case of slate roofs, the optimum form of mounting is mainly determined by the roof covering! In certain circumstances, a mounting on hanger bolts is advantageous.



102001-000 Roof hook Slate Prefa (simple)

(400 840)

	Length	Height	Width	Thickness
mm	235	75	30	5
inches	9.25	2.95	1.18	0.20

102001-001 Roof hook Slate Prefa V (Vario)

(400 841)

	Length	Height	Width	Thickness
mm	235	60-90	30	5
inches	9.25	2.36-3.54	1.18	0.20



Roof hook "Biberschwanz" (plain tile)

VA-quality

Please check the roof hook design on the basis of the roof covering on site!

103001-001 Roof hook Biberschwanz (plain tile) (simple)

(400 850)

only for light snow loads!

	a	b	c	d	e	f	g	h
mm	40	255	125	60	30	30	5	5
inches	1.57	10.04	4.92	2.36	1.18	1.18	0.20	0.20

103001-002 Roof hook Biberschwanz (plain tile) Universal (adjustable)

(400 851)

	a	b	c	d	e	f	g	h
mm	45	240	107-137	75	150	30	5	6
inches	1.77	9.45	4.21-5.39	2.95	5.91	1.18	0.20	0.24

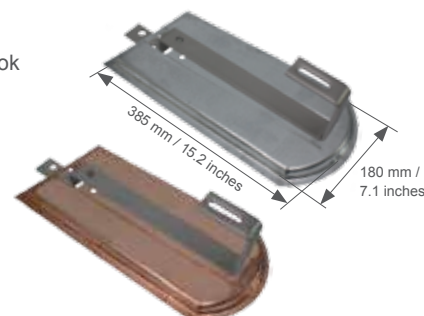


103011-000 Biberschwanz (plain tile) fixation kit galvanized (simple)

(400 852)

Biberschwanz (plain tile) galvanized substitute plate with integrated VA-hook
Extra resistant to snow loads!

	a	b	c	d	e	f	g	h
mm	32	255	125	60	30	30	5	5
inches	1.26	10.04	4.92	2.36	1.18	1.18	0.20	0.20



103012-000 Biberschwanz (plain tile) fixation kit galvanized (simple)

(400 853)

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

103011-001 Biberschwanz (plain tile) fixation kit univ. galvanized (Universal)

(400 854)

Galvanized Biberschwanz (plain tile) -substitute plate with integrated VA-hooks and additional fixation plate (adjustable at the sides). The optimum way of fixation! Extra resistant to snow loads and also absolutely safe also in case of heavy wind loads due to fixation to the rafter!

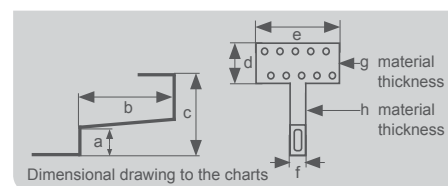
	a	b	c	d	e	f	g	h
mm	35	245	110	71	140	30	5	5
inches	1.38	9.65	4.33	2.80	5.51	1.18	0.20	0.20

103012-001 Biberschwanz (plain tile) fixation kit univ. copper (Universal)

(400 855)

Copper Biberschwanz (plain tile) with integrated VA-hooks and additional fixation (adjustable at the sides).





Roof hook special design Bitumen

Extra flat hook, particularly for fixation between bitumen tiles

109001-000 Roof hook Bitumen

(400 870)

	Length	Height	Width	Thickness
mm	255	75	40	4
inches	10.04	2.95	1.57	0.16



Roof hook special design Tegalit

Without fixation plate, for flat Tegalit tiles

109003-000 Roof hook Tegalit

(400 874)

	a	b	c	d	e	f	g	h
mm	52	180	132	60	30	30	5	5
inches	2.05	7.09	5.20	2.36	1.18	1.18	0.20	0.20



Roof hook PP

For purlin roofs with pan tile roofing
Due to the purlin partition, this hook usually has to be combined with a cross rail system.

109004-000 Roof hook system PP Pfette Pfanne (purlin pantile)

(400 875)

	a	b	c	d	e	f	g	h
mm	50	110	135	200	50	35	5	6
inches	1.97	4.33	5.31	7.87	1.97	1.38	0.20	0.24



Roof hook Mönch/Nonne (Spanish tile)

109005-000 Roof hook Moench Nonne (Spanish tile) - purlin (adjustable)

(400 590)

	a	b	c	d	e	f	g	h
mm	100-130	110	185-215	200	50	35	5	6
inches	3.94-5.12	4.33	7.28-8.46	7.87	1.97	1.38	0.20	0.24



109005-001 Roof hook Moench Nonne (Spanish tile) - rafter (adjustable)

(400 591)

Design for rafter or concrete

	a	b	c	d	e	f	g	h
mm	100-130	110	185-215	60	150	35	5	6
inches	3.94-5.12	4.33	7.28-8.46	2.36	5.91	1.38	0.20	0.24



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

109006-002 **Shim 2 mm DN 8** (2 mm / 0.08 inches)
(400 893-2)

109006-005 **Shim 5 mm DN 8** (5 mm / 0.20 inches)
(400 893-5)



Corrective plate for connector M10 (consider screw length, if necessary!)

109007-002 **Shim 2 mm DN 10** (2 mm / 0.08 inches)
(400 894-2)

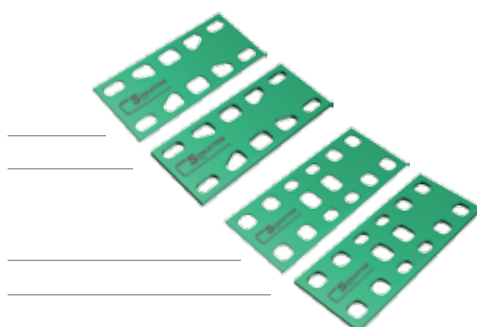
109007-005 **Shim 5 mm for DN 10** (5 mm / 0.20 inches)
(400 894-5)



Distance plate for roof hook mounting

973000-017 **Shim 2 mm Eco S Rapid Standard**
973000-018 **Shim 5 mm Eco S Rapid Standard**

973000-019 **Shim 2 mm VaMax Rapid Max**
973000-020 **Shim 5 mm VaMax Rapid Max**



109008-000 **KlickTop attachment piece for roof hooks**
(430 501)



Application example

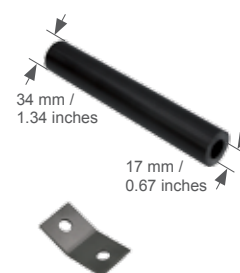


109009-002 **Plastic distance sleeve customized cut** (for on-rafter insulation)
(400 896)

Applicable as distance piece for on-rafter insulations in combination with extra long fixation screws; Plastic design prevents cold bridges! Please specify desired length when ordering, screws have to be ordered separately! Consider the reduced permissible load per hook!



Application example



109010-000 **Extra angle joint Iso07** (for roof hook fixation system Iso07)
(400 896-W)

Area of application

Fixation of solar and photovoltaic plants to the substructures of tiled roofs.

Technical data

Material	Roof hooks and screws: High quality steel 1.4301 Distance pieces, equalization plates, KlickTop and Rapid profile clamping: Aluminum Sheet metal components: Quality steel 1.4301
Structural analysis	Structural analysis according to the current national standards (in Germany DIN1055 and EC1). Attachments regarding the dimensioning of the number of required fixation spot based on structural analysis. By all means consider the hints on structural safety! The verification of the adhesive force of the roof to the substructure is not included in the general structural analysis attachments!

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Corrugated roof fixation overview

Brochure

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



Mounting scheme

943810-160 Hanger bolt loose, without nuts M10 x 160 mm / 6.3 inches
(400 752-10-160)

943810-200 Hanger bolt loose, without nuts M10 x 200 mm / 7.9 inches
(400 752-10-200)

943812-200 Hanger bolt loose, without nuts M12 x 200 mm / 7.9 inches
(400 752-12-200)

943812-300 Hanger bolt loose, without nuts M12 x 300 mm / 11.8 inches
(400 752-12-300)

943812-400 Hanger bolt loose, without nuts M12 x 400 mm / 15.7 inches
(400 752-12-400)



110010-200 Hanger bolt kit 10x200 assembled M10 x 200 mm / 7.9 inches
(400 753-10-200)

110012-200 Hanger bolt kit 12x200 assembled M12 x 200 mm / 7.9 inches
(400 753-12-200)

110012-300 Hanger bolt kit 12x300 assembled M12 x 300 mm / 11.8 inches
(400 753-12-300)

Hanger bolt kit readily prepackaged with vulcanized EPDM-sealing (UV-resistant) and 3 flange nuts in V4A, assembled



111110-200 Corrugated roof fixation kit 10x200 KlickTop M10 x 200 mm / 7.9 inches
(430 504-10-200)

111112-200 Corrugated roof fixation kit 12x200 KlickTop M12 x 200 mm / 7.9 inches
(430 504-12-200)

111112-300 Corrugated roof fixation kit 12x300 KlickTop M12 x 300 mm / 11.8 inches
(430 504-12-300)

Corrugated roof fixation kit KlickTop incl. KlickTop-kit, Hanger bolt with vulcanized EPDM-sealing (UV-resistant) and 3 flange nuts in V4A



111010-200 Corrugated roof fixation kit 10x200 M10 x 200 mm / 7.9 inches
(400 504-10-200)

111012-200 Corrugated roof fixation kit 12x200 M12 x 200 mm / 7.9 inches
(400 504-12-200)

111012-300 Corrugated roof fixation kit 12x300 M12 x 300 mm / 11.8 inches
(400 504-12-300)

Corrugated roof fixation kit incl. mounting plate, hanger bolt with vulcanized EPDM-sealing (UV-resistant) and 3 flange nuts in V4A



111210-200
(400 504-10d200)

Corrugated roof twin fixation kit 10x200 M10 x 200 mm / 7.9 inches

111212-200
(400 504-12d200)

Corrugated roof twin fixation kit 12x200 M12 x 200 mm / 7.9 inches

111212-300
(400 504-12d300)

Corrugated roof twin fixation kit 12x300 M12 x 300 mm / 11.8 inches

Corrugated roof twin fixation kit incl. mounting plate, 2 hanger bolts with vulcanized EPDM-sealing (UV-resistant) and 6 flange nuts, suitable for "Berliner Welle" 133 / 177 mm



119002-000
(400 754)

Mounting plate for hanger bolt M10 / M12

for hanger bolts M10 / M12, loose, aluminum
120 x 60 x 6 mm / 4.72 x 2.36 x 0.24 inches



119003-000
(400 754-d)

Twin mounting plate hanger bolt M10 / M12

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



119001-000
(430 504)

KlickTop attachment piece for hanger bolt

for hanger bolts M10 / M12, loose, aluminum



973000-002
(400 755)

Sealing EPDM for hanger bolt M10 / M12

EPDM, UV-resistant



Area of application

Fixation of solar and photovoltaic plants to the substructures of corrugated eternit roofs or trapezoidal sheet metal roofs.

Technical data

Material	Screws: High quality steel 1.4301 Mounting plate / KlickTop attachment: Aluminum Sealing rubber: Vulcanized EPDM-sealing (UV-resistant)
Structural analysis	Structural calculation acc. to the current specific national standards (in Germany DIN1055 and EC1). Structural analysis attachments on the dimensioning of the number of the required fixation spots, based on structural analysis. By all means consider the hints on structural safety! The verification of the adhesive force of the roof to the substructure is not included in the general structural analysis attachments!

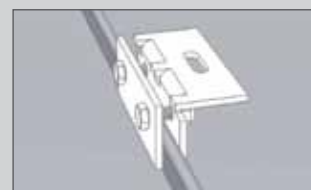
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Sheet metal clamp overview

Brochure

For (almost) any kind of application! With the alternative solutions Fix2000 and FixPlan. Of course, Schletter offers you the widest program range!

By all means pay do consider: The tightening torque has to be limited in such a manner that the standing seams are not deformed and the thermal strains of the metal sheets are not impeded!



Mounting scheme

112001-000 Standing seam clamp 503 standing seam roof VA
(400 503) for standing seam roofs

Please note: In case of titanium sheet metal it has to be checked, if the standing seams may be loaded!

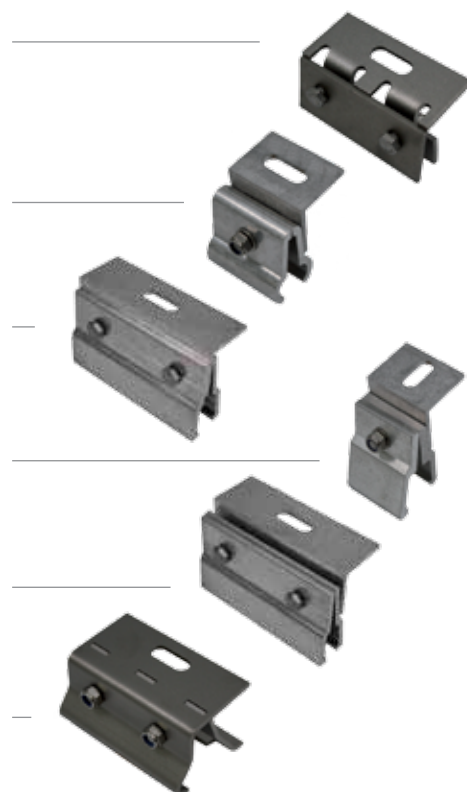
112002-000 Standing seam clamps 510 KalZip
(400 510) for KalZip- and Bemo- roofs

112003-000 Standing seam clamps 520 Zambelli RibRoof465 aluminum
(400 520) for Zambelli RibRoof, width 465 and similar designs

112004-000 Standing seam clamps 522-A Zambelli RibRoof500 aluminum
(400 522-A) for Zambelli RibRoof, width 500 and similar designs

112006-000 Standing seam clamp 524 Fischer KlipTec 52-400 aluminum
(400 524) for Fischer KlipTec 52/400 and similar designs

112007-000 Standing seam clamp 525 Domico VA
(400 525) for Domico and similar designs



Trapezoidal clamp Fix 2000

The universal trapezoidal sheet metal fixation for steel sheets from 0.5 mm / 0.02 inches and aluminum sheet metal starting from 0.8 mm / 0.03 inches; manufacturing according to measurement (Measurement list is available for download)! Please pay special regard to the hints on application!



113002-000 Fix2000 KlickTop incl. 4 sheet metal screws
(400 873k)

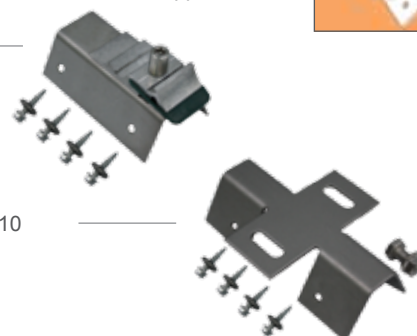
113002-001 Fix2000 KlickTop with rubber
(400 873k-G) Design with glued-in EPDM-rubber
(producer recommendation)

113001-000 Fix2000 Standard incl. 4 sheet metal screws and 1x screw kit M10
(400 873)

113001-001 Fix2000 Standard with rubber
(400 873-G) Design with glued-in EPDM-rubber
(Manufacturer recommendation)

973000-014 EPDM-Gummi for self-mounting (10 m roll, width 48 mm)
(400 750-48)

943706-025 Self-drilling screw with sealing ring
(462 150)



119009-000
(400 873-ML)

Gauging tool for Fix2000
(to measure the measurements of the trapezoidal sheet metal)



Fixation element FixPlan

The alternative for flat sheet metal roofs, where a fixation to standing seams is not possible (for example titanium zinc metal roofs).

114001-001
(430 879-12-200)

FixPlan 12x200 KlickTop with hanger bolt 12x200

114002-001
(430 879-12-300)

FixPlan 12x300 KlickTop with hanger bolt 12x300

114001-000
(400 879-12-200)

FixPlan 12x200 with hanger bolt 12x200

114002-000
(400 879-12-300)

FixPlan 12x300 with hanger bolt 12x300



Area of application

Fixation of solar plants and PV-plants on sheet metal roofs.

Important hints on structural safety

- Generally, a sufficient holding force of the sheet metal roof covering to the substructure is always a precondition for constructions that are fixed to the roof cladding. Please note that the according verifications have to be carried out on site!
- In case of elevated installations, especially high loads onto the sheet metal roofing will arise. In such cases, please make sure that there is a sufficient number of fixation spots, as well as a verification of the holding force of the roof covering.
- The verification of the holding force of the standing seam clamps to the roof can be looked up in the according attachments of the system structural analysis.
- By all means please consider the higher loads in the roof edge area and the roof corner area resp. do not make these areas part of your plant layout in the first place.
- Concerning the maximum snow load it has to be considered that the roof cladding must be able to bear also the self-weight of the PV-plant in addition to the snow load.

Technical data

Material	Screws: Quality steel 1.4301; Profiles: Aluminum MgSi05 /EN AW 6063, EN AW 6005) Sheet metal components: High quality steel 1.4301
Structural analysis	Structural calculation acc. to the current specific national standards (in Germany DIN1055 and EC1). Structural analysis attachments on the dimensioning of the number of the required fixation spots, based on structural analysis and verifications by tensile tests. By all means consider the hints on structural safety! The verification of the adhesive force of the roof to the substructure is not included in the general structural analysis attachments!

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FixE and FixT overview

Brochure

The innovative fixation solution with steel and wooden purlins.

Ordering exclusively by ☞ checklist FixE/FixT

Wood

Steel
FixE/T
Size

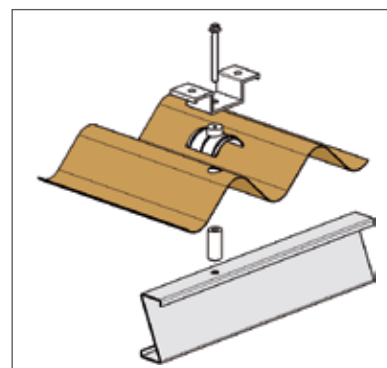
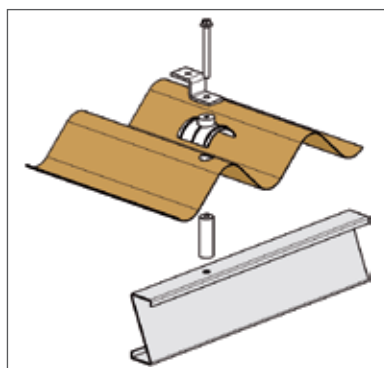
1	2	3	4	5

Applicable sizes

111006-000

(400 877-1)

FixE size 1 simple fixation kit

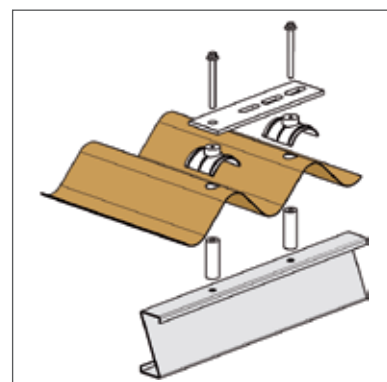


111007-000

(400 877-2)

FixE size 2 twin fixation kit plate

For upper corrugation distances
up to 250 mm / 9.84 inches

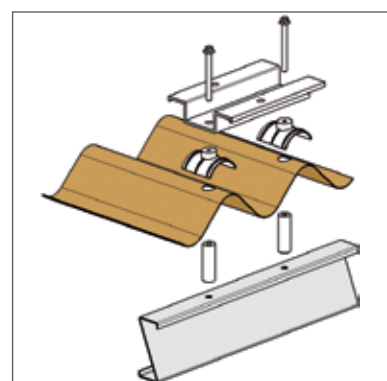
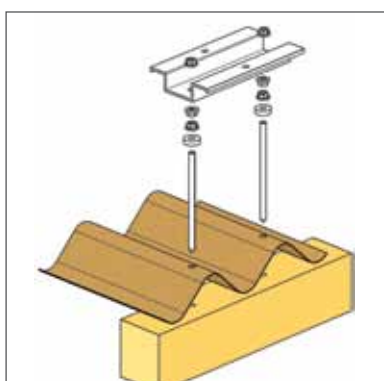


111008-000

(400 877-3)

FixE size 3 twin fixation kit cap profile

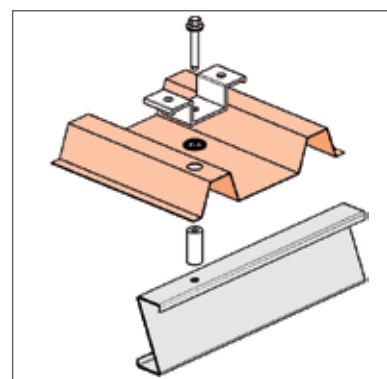
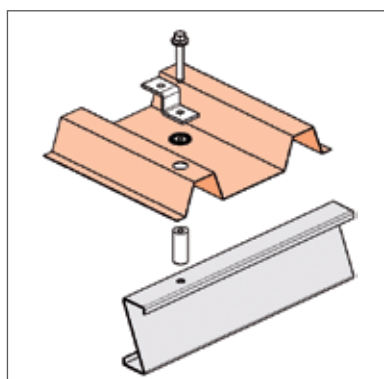
for upper corrugation distances
bigger than 250 mm / 9.84 inches



113004-000

(400 878-1)

FixT size 1 simple fixation kit

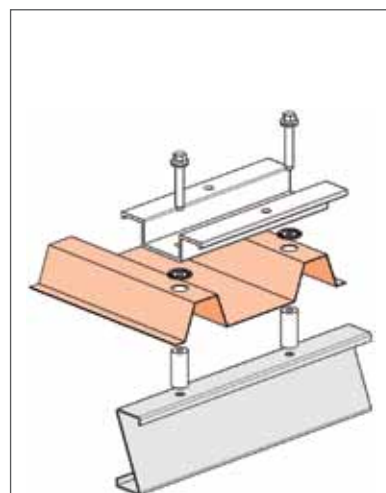
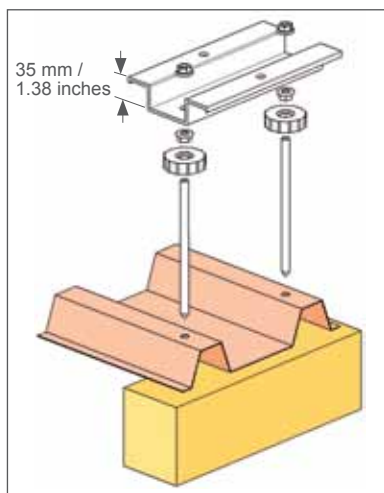


113005-000

(400 878-2)

FixT size 2 twin fixation kit

For corrugation top distances
up to 250 mm / 9.84 inches

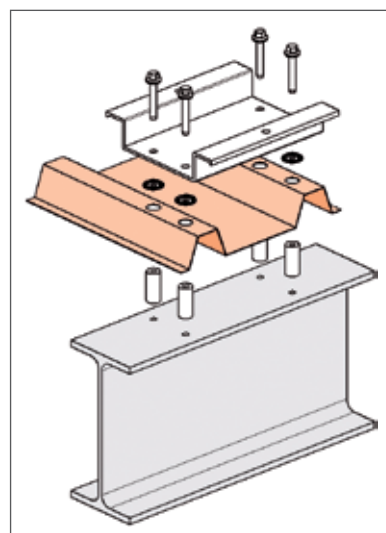
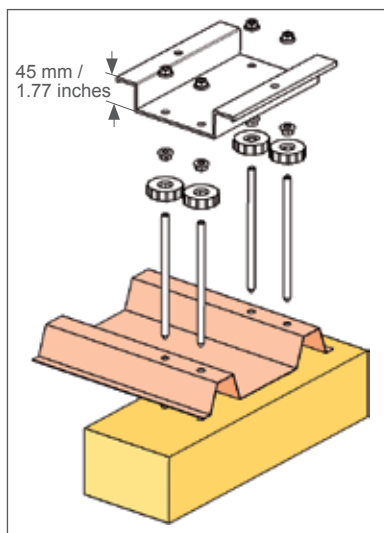


113006-000

(400 878-3)

FixT size 3 twin fixation kit

for upper corrugation distances
bigger than 250 mm / 9.84 inches



113007-000

(400 878-4)

FixT size 4 quadruple fixation kit

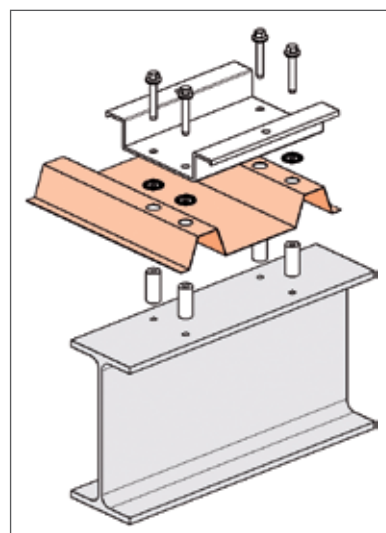
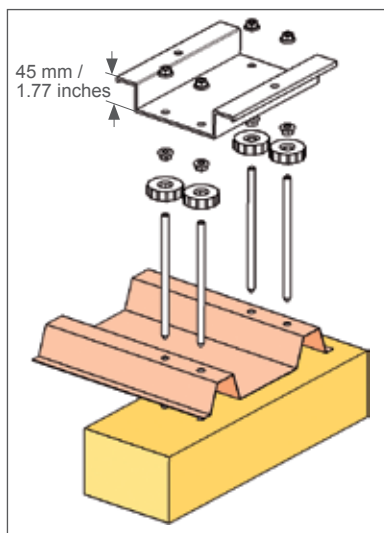
for upper corrugation distances
up to 250 mm / 9.84 inches

113008-000

(400 878-5)

FixT size 5 quadruple fixation kit

for upper corrugation distances
bigger than 250 mm / 9.84 inches



Area of application

Elevation systems like CompactVario and CompactGrid

Important hints on structural safety

On the basis of a check list, the supporting elements are adapted to the roofing, the according screws are picked, and the length of the distance tubes is determined. The structural dimensioning of the complete construction (roof connections, support plates, elevation) is carried out on the basis of a convenient structural analysis program.

Technical data

Material	Screws: Quality steel 1.4301, 8 mm for steel purlins, hanger bolts M10 resp. M12 for wooden purlins. Distance tubes made of aluminium, diameter 20 resp. 16 mm / 0.79 resp. 0.63 inches (only for steel purlins). Concentric EPDM-sealing, UV-resistant in case of steel purlin, Special sealing top resp. rubber for corrugated roofs in case of wooden purlins. Sealing collar, EPDM-rubber form piece, UV-resistant Supporting elements: Cap profiles: Aluminum; Fixation angle VA (FixE1) or mounting plate aluminum (FixE2)
Structural analysis	Structural analysis acc. to the current specific national standards (in Germany DIN1055 and EC1). a) Roof-parallel mounting: Charts on the number of fixation spots b) Elevations: Structural analysis project planning program CompactVario

Get all system prices conveniently and swiftly with the auto-calculator on our website: www.schletter.eu

Module clamp overview

Brochure

Module clamps for (almost) any module design.



Mounting scheme

Aluminum module end clamps for framed modules

Optimum holding force in the critical edge zones of the plant.

Module middle clamps with a length of 100 mm and bars of 3 mm

Distribute the contact pressure in an optimum manner onto the module frame.

Gap between the modules: about 20 mm

black anodized

Frame height	mm	inches	End clamp without accessories	Middle clamp without accessories	Earthing middle clamp without accessories	End clamp without accessories	Middle clamp without accessories	Earthing middle clamp without accessories	Suitable socket head screw	mm	inches
20	0.79		130001-020	130002-000	135001-000	130001-920	130002-900	135001-900	25	0.98	
24	0.94		130001-024	130002-000	135001-000	130001-924	130002-900	135001-900	30	1.18	
28	1.10		130001-028	130002-000	135001-000	130001-928	130002-900	135001-900	35	1.38	
30	1.18		130001-030	130002-000	135001-000	130001-930	130002-900	135001-900	35	1.38	
32	1.26		130001-032	130002-001	135001-001	130001-932	130002-901	135001-901	20	0.79	
34	1.34		130001-034	130002-001	135001-001	130001-934	130002-901	135001-901	20	0.79	
35	1.38		130001-035	130002-001	135001-001	130001-935	130002-901	135001-901	20	0.79	
36	1.42		130001-036	130002-001	135001-001	130001-936	130002-901	135001-901	25	0.98	
38	1.50		130001-038	130002-001	135001-001	130001-938	130002-901	135001-901	25	0.98	
40	1.57		130001-040	130002-001	135001-001	130001-940	130002-901	135001-901	25	0.98	
42	1.65		130001-042	130002-001	135001-001	130001-942	130002-901	135001-901	30	1.18	
43	1.69		130001-043	130002-001	135001-001	130001-943	130002-901	135001-901	30	1.18	
44	1.73		130001-044	130002-001	135001-001	130001-944	130002-901	135001-901	30	1.18	
45	1.77		130001-045	130002-001	135001-001	130001-945	130002-901	135001-901	30	1.18	
46	1.81		130001-046	130002-001	135001-001	130001-946	130002-901	135001-901	35	1.38	
48	1.89		130001-048	130002-001	135001-001	130001-948	130002-901	135001-901	35	1.38	
50	1.97		130001-050	130002-001	135001-001	130001-950	130002-901	135001-901	35	1.38	
51	2.01		130001-051	130002-001	135001-001	130001-951	130002-901	135001-901	35	1.38	
			(400 420-o - 400 451-o)	(400 231-o / 400 230-o)	(430 031-o / 430 030-o)						(see screws and accessories)

135004-000
(430 036)

Earthing shim for module earthing
(to be combined with normal clamps)



139003-000
(400 233-o)

VA module clamp "claw" (for example for Sanyo module)
(suitable accessory M8x35)

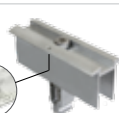
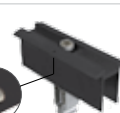




Mounting scheme

System Rapid aluminum module clamps²⁺ assembled

incl. screw, Torx M8, serration on the lower side of the screw head and anti-friction coating

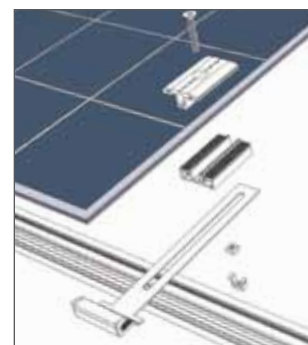
						black anodized			
									
Frame height	mm inches	End clamp	End clamp universal	Middle clamp	Earthing middle clamp	End clamp	End clamp universal	Middle clamp	Earthing middle clamp
30	1.18	131001-030	131002-000	131003-000	135002-000	131001-930	131002-900	131003-900	135002-900
31	1.22	131001-031	131002-000	131003-000	135002-000	131001-931	131002-900	131003-900	135002-900
32	1.26	131001-032	131002-000	131003-000	135002-000	131001-932	131002-900	131003-900	135002-900
33	1.30	131001-033	131002-000	131003-000	135002-000	131001-933	131002-900	131003-900	135002-900
34	1.34	131001-034	131002-000	131003-000	135002-000	131001-934	131002-900	131003-900	135002-900
35	1.38	131001-035	131002-000	131003-000	135002-000	131001-935	131002-900	131003-900	135002-900
36	1.42	131001-036	131002-000	131003-000	135002-000	131001-936	131002-900	131003-900	135002-900
37	1.46	131001-037	131002-000	131003-000	135002-000	131001-937	131002-900	131003-900	135002-900
38	1.50	131001-038	131002-000	131003-000	135002-000	131001-938	131002-900	131003-900	135002-900
39	1.54	131001-039	131002-000	131003-000	135002-000	131001-939	131002-900	131003-900	135002-900
40	1.57	131001-040	131002-001	131003-001	135002-001	131001-940	131002-901	131003-901	135002-901
41	1.61	131001-041	131002-001	131003-001	135002-001	131001-941	131002-901	131003-901	135002-901
42	1.65	131001-042	131002-001	131003-001	135002-001	131001-942	131002-901	131003-901	135002-901
43	1.69	131001-043	131002-001	131003-001	135002-001	131001-943	131002-901	131003-901	135002-901
44	1.73	131001-044	131002-001	131003-001	135002-001	131001-944	131002-901	131003-901	135002-901
45	1.77	131001-045	131002-001	131003-001	135002-001	131001-945	131002-901	131003-901	135002-901
46	1.81	131001-046	131002-001	131003-001	135002-001	131001-946	131002-901	131003-901	135002-901
47	1.85	131001-047	131002-001	131003-001	135002-001	131001-947	131002-901	131003-901	135002-901
48	1.89	131001-048	131002-001	131003-001	135002-001	131001-948	131002-901	131003-901	135002-901
49	1.93	131001-049	131002-001	131003-001	135002-001	131001-949	131002-901	131003-901	135002-901
50	1.97	131001-050	131002-001	131003-001	135002-001	131001-950	131002-901	131003-901	135002-901
		(430 830 - 430 850)	(430 812 / 430 813)	(430 810 / 430 811)	(430 820 / 430 821)				

Laminate Profi, Eco & GS series

For different module thicknesses

Attention: Consider the tightening torques!

(Please also see: General hints on laminate mounting)



Mounting scheme

Profi series

for laminate thicknesses 3-14 mm / 0.12-0.55 inches

incl. countersunk head screw and square nut

132201-308 **Profi middle clamp narrow 3-8 mm kit** (0.12-0.31 inches)

(400 295-M8)

132201-914 **Profi middle clamp narrow 9-14 mm kit** (0.35-0.55 inches)

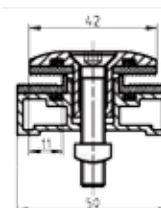
(400 295-M14)

132101-308 **End clamp Profi narrow 3-8 mm kit** (0.12-0.31 inches)

(400 297-M8)

132101-914 **Profi end clamp narrow 9-14 mm kit** (0.35-0.55 inches)

(400 297-M14)



132202-308 **Middle clamp Profi broad 3-8 mm kit** (0.12-0.31 inches)

(400 296-M8)

132202-914 **Middle clamp Profi broad 9-14 mm kit** (0.35-0.55 inches)

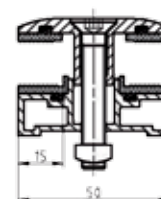
(400 296-M14)

132102-308 **End clamp Profi broad 3-8 mm kit** (0.12-0.31 inches)

(400 298-M8)

132102-914 **End clamp Profi broad 9-14 mm kit** (0.35-0.55 inches)

(400 298-M14)



139001-000 **Support rubber for laminate mounting**

(400 240-G)

is inserted in the cross beam and prevents a sagging of the modules



Eco series

11 mm engagement length into the module, the gap between the modules measures about 22 mm (no pressure onto the laminates)

133240-040 **Middle clamp Eco4 laminate 4 mm** (for laminates 4 mm)

(400 253)

133240-140 **Middle clamp Eco4 laminate 4 mm kit**

(400 253-m4)

(with accessories M8x20)



133140-040 **End clamp Eco4 laminate 4 mm** (for laminates 4 mm)

(400 254)

133140-140 **End clamp Eco4 laminate 4 mm kit**

(400 254-m4)

(with accessories M8x20)



- 133260-068 **Middle clamp Eco6 laminate 6.8 mm (0.27 inches)**
(400 257)
- 133260-168 **Middle clamp Eco6 laminate 6.8 mm kit (with accessories M8x20)**
(400 257-m6)
- 133160-068 **End clamp Eco6 laminate 6.8 mm (0.27 inches)**
(400 258)
- 133160-168 **End clamp Eco6 laminate 6.8 mm kit (with accessories M8x20)**
(400 258-m6)



With manufacturer certification for laminated modules by First Solar

- 133280-080 **Middle clamp Eco8 laminate 8 mm (0.31 inches)**
(400 255)
- 133280-180 **Middle clamp Eco8 laminate 8 mm kit (with accessories M8x20)**
(400 255-m8)
- 133180-080 **End clamp Eco8 laminate 8 mm (0.31 inches)**
(400 256)
- 133180-180 **End clamp Eco8 laminate 8 mm kit (with accessories M8x20)**
(400 256-m8)



With manufacturer certification for laminated modules by First Solar

- 139004-000 **Shim for middle clamp Eco6 (optional)**
(400 257-UB)
to elevate the support area
- 498 050 **Distance pieces**
for laminate thickness 4-10 mm/ 0.16-0.39 inches



- 139008-000 **Safety hook for laminate thickness 6.8 mm**
- 139008-001 **Safety hook for laminate thickness 8 mm**



Prevents the modules from sliding-off

- 134060-068 **GS6 clamp scaled 6.8 mm laminate (for laminates 6.8 mm)**
(430 251-6)
- 134060-168 **GS6 clamps scaled 6.8 mm laminate M8x20 (with accessories M8x20)**
(430 251-m6)
- 134080-080 **GS8 clamp scaled 8 mm laminate (for laminates 8 mm)**
(430 251-8)
- 134080-180 **GS8 clamp scaled 8 mm laminate M8x20 (with accessories M8x20)**
(430 251-m8)



No certification for First Solar !

- 135003-000 **Lightning protection clamp for 8 and 10 mm**
(430 035)
Aluminum compl. pre-assembled (for wire diameters of 8 or 10 mm)



Profile series 05 overview

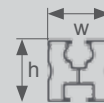
Brochure

The profile series 05 for the well-proven Klick system with suitable accessories.

➔ please also see the structural analysis charts for cross beams

available lengths

m	inches
4	157
6	236
and customized cuts	



Module bearing profile Eco05

	w	h
mm	30	30
inches	1.18	1.18

Mechanical connection:

Top: Klick groove M8

Bottom: Screw channel M10

120001-001

120001-004

120001-006

(430 071-...)

Customized cut

4 m / 157 inches

6 m / 236 inches



for narrow spans

Module bearing profile Solo05

	w	h
mm	40	40
inches	1.57	1.57

Mechanical connection:

Top: Klick groove M8

Bottom: Screw channel M10

120002-001

120002-004

120002-006

(430 070-...)

Customized cut

4 m / 157 inches

6 m / 236 inches



for wider spans

Module bearing profile Profi05

	w	h
mm	40 / 62	40
inches	1.57/2.44	1.57

Mechanical connection:

Top: Klick groove M8

Bottom: Screw channel M10

120003-001

120003-004

120003-006

(430 010-...)

Customized cut

4 m / 157 inches

6 m / 236 inches



with cable duct

Module bearing profile Profi05

	w	h
mm	40	60
inches	1.57	2.36

Mechanical connection:

Top: Klick groove M8

Bottom: Screw channel M10

120004-001

120004-004

120004-006

(430 015-...)

Customized cut

4 m / 157 inches

6 m / 236 inches



for wider spans

Accessories for profile series 05:

129001-000

(400 028-o)

Connector plate Eco05 loose

129001-001

(400 028-m)

Connector plate Eco05 pre-assembled



loose



pre-assembled

129002-000

(430 027-o)

Connector Solo or ProfiPlus loose

129002-001

(430 027-m)

Connector Solo or ProfiPlus pre-assembled



loose



pre-assembled

129003-000

(430 023-o)

Connector plate Profi05 loose

129003-001

(430 023-m)

Connector plate Profi05 pre-assembled



loose



pre-assembled

Cross beam connector kit for length equalization

Attention! Must not to be used within the module row!

129026-000

(400 026 / 400 027)

Cross beam connector kit Solo05 and Profi05



129004-000

(430 520-m8)

KlickTop cross connector kit M8

with bolt, "Klick" click component and square nut for Klick groove M8 for cross rail system Standard

➔ GridNorm product sheet

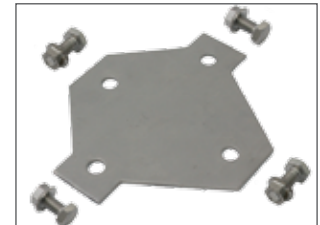


129039-000

(400 518-m10)

Rail cross connector VA plate M10 / M10

Wide plate incl. screw set M10 / M10



129011-000

(430 028)

Plastic end cap Solo Profi05

is included free of charge in prepackaged plants!



Cable duct Profi Solo Eco05

for clean and protected cable laying
in combination with covering - see below
Mechanical connection: Snap in

129007-001

129007-006

(430 020-...)

Customized cut
6 m / 236 inches



Rectangular cable duct 25x40 with screwing ear

for clean and protected cable laying
in combination with covering - see below
Mechanical connection: Screw M10 - has to be drilled

129008-001

129008-006

(430 021-...)

Customized cut
6 m / 236 inches



Cable duct covering for the cable ducts Profi 05, additional duct and rectangular duct - among other things optimized against damage caused by martens

129009-001

129009-006

(430 022-...)

Customized cut
6 m / 236 inches



Accessories for profile series 05:

129010-008
(430 024)

KlickIn click component for nut M8
for simplified insertion of the M8 square nut
at any desired spot of the M8 KlickIn groove



129012-008
(498 111)

Prokclip-S cable clip rectangular duct M8
rectangular, to be snapped into the screwing channel M8
to optimize the cable routing



129012-010
(498 120)

Prokclip2000-B cable clip round duct M10
round, to be snapped into the M10 screwing channel
for optimized cable routing



129005-000
(498 114)

Cable clip ProClip-C for Solo05 and Profi05
rectangular, to be snapped in between the upper and
the lower screw duct - for Solo05 and Profi05



Area of application

All Schletter profile groups can be combined among each other for applications on pitched roofs, flat roofs and in open areas, as well as for the most different kinds of special systems.

Chose the profile for your special case of application from our wide range in order to minimize the need for raw material.

Technical data

Material	Screws: Quality steel 1.4301; Profiles: Aluminum MgSi05 /EN AW 6063, EN AW 6005 Sheet metal components: High quality steel 1.4301
Structural analysis	Structural analysis acc. to the current specific national standards (in Germany DIN1055 and EC1). Structural analysis attachments on the dimensioning of the number of the required fixation spots, based on structural analysis. By all means consider the hints on structural safety! The verification of the adhesive force of the roof to the substructure is not included in the general structural analysis attachments!

Get all system prices conveniently and swiftly with the auto-calculalator on our website: www.schletter.eu

Cable duct MaxK overview

Brochure

The cable duct system for flexible mounting of the string cabling.

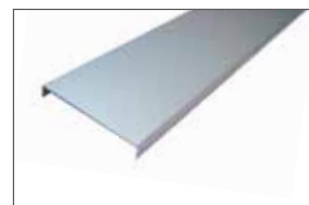


Mounting scheme

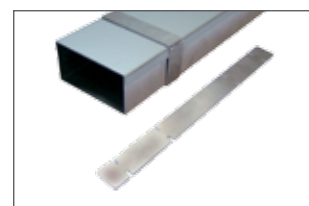
- 129013-000 (430 201) **Cable duct MaxK loose 80x40x3000**
 129013-001 (430 202) **Cable duct MaxK loose 120x40x3000**



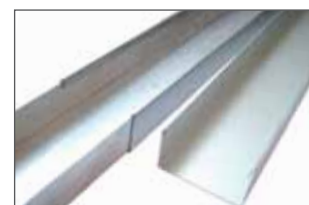
- 129014-000 (430 211) **Cable duct covering MaxK 80x1000** for MaxK Vario 129018-000
 129014-001 (430 212) **Cable duct covering MaxK 80x1300** for MaxK Vario 129018-001
 129014-003 (430 213) **Cable duct covering MaxK 120x1000** for MaxK Vario 129018-002
 129014-004 (430 214) **Cable duct covering MaxK 120x1300** for MaxK Vario 129018-003
 129014-002 (430 215) **Cable duct covering MaxK 80x3000** for MaxK 129013-000
 129014-005 (430 216) **Cable duct covering MaxK 120x3000** for MaxK 129013-001



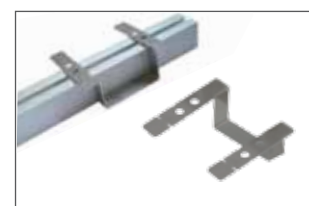
- 129015-000 (430 221) **Cover bracket MaxK duct 80 or 120**



- 129016-000 (430 222) **Shift connector MaxK duct 80**
 129016-001 (430 223) **Shift connector MaxK duct 120**



- 129017-000 (430 224) **Hook-in bracket MaxK duct 80**
 129017-001 (430 225) **Hook-in bracket MaxK duct 120**



- 129018-000 (430 231) **MaxK Vario duct 80x40x600-1000 mm compl.**
 129018-001 (430 232) **MaxK Vario duct 80x40x900-1300 mm compl.**
 129018-002 (430 233) **MaxK Vario duct 120x40x600-1000 mm compl.**
 129018-003 (430 234) **MaxK Vario duct 120x40x900-1300 mm compl.**

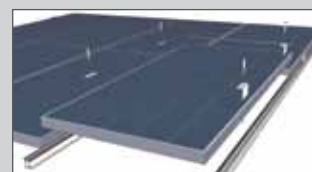


Extendable and can simply be mounted between the cross beams without being cut off.

Plandach5 overview

Brochure

The Schletter in-roof system



Mounting scheme

Plandach5 profile

122001-001
122001-006

(400 280-...)

Customized cut
6 m / 236 inches



129032-000

(400 290)

Support rubber Plandach5

in the bearing profile Plandach5 for laminate modules



129033-000

(400 293)

Distance profile Plandach5

for laminated modules at horizontal joints



129034-000

(400 294)

Anti-skid device Plandach5 kit laminate



136201-040

(400 284 - 40)

Middle clamp Plandach5 for frames up to 40 mm (1.57 inches) kit

136201-052

(400 284 - 52)

Middle clamp Plandach5 for frames up to 52 mm (2.05 inches) kit

136101-0xx

(400 285 - XX)

End clamp Plandach5 frames XXmm kit

prepacked for XX mm



136202-012

(400 288 - m12)

Middle clamp Plandach5 laminate up to 12 mm (0.47 inches) kit

136004-001

(400 289 -...)

End clamp Plandach5 laminate 6 and 8 mm

(0.24 and 0.31 inches) kit



129035-000

(400 299)

Sealing underlayment Plandach5 form piece

462 170

462 171

Sealing screw 4.9x35 for wooden substructures

Sealing screw 6.5x50 for wooden substructures



FixZ-7 additional elevation

Brochure

FixZ-7 simple elevation 5-7°

Can only be applied in combination with KlickTop!



Mounting scheme

FixZ-7 system profile bottom

	w	h
mm	36	51
inches	1.42	2.01

- 121002-001 Customized cut
- 121002-004 4 m / 157 inches
- 121002-006 6 m / 236 inches

(400 087-...)

Mechanical connection:

Top: Klick groove M8
Bottom: KlickTop



FixZ-7 system profile top

	w	h
mm	36	130
inches	1.42	5.12

- 121001-001 Customized cut
- 121001-004 4 m / 157 inches
- 121001-006 6 m / 236 inches

(400 086-...)

Mechanical connection:

Top: Klick groove M8
Bottom: KlickTop



- 129019-000 **Connector FixZ-7 profile top bottom kit**
incl. screws:

(400 086-V)

Pay regard to further system hints!

➔ FixZ-7 product sheet

Area of application

System-specific. Please find further information in the download area of our website: www.schletter.eu

Technical data

Material	Screws: High quality steel 1.4301; Profiles: Aluminum MgSi05 /EN AW 6063, EN AW 6005 Sheet metal components: High quality steel 1.4301
Structural analysis	Structural analysis acc. to the current specific national standards (in Germany DIN1055 and EC1). Structural analysis attachment on the dimensioning of the number of the required fixation spots, based on structural analysis. By all means pay regard to the hints on structural safety! The verification of the adhesive force of the roof to the substructure is not included in the general structural analysis attachments!

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Flat roof systems

Brochure

For all kinds of flat roof fixations, a diagonal bracing of the supporting structures can be recommendable depending on the substructure and the fixation, these bracings can be created on site, or can also be ordered separately, if necessary! Customized sizes, customized angles etc. on request.



Application examples

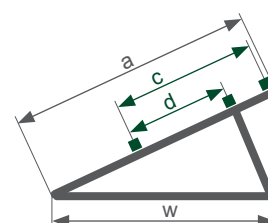


Support series 07, 30 degrees other angles on request



Bottom profile

Flat roof support Light U07 (30 degrees, aluminum, screwed)



150001-100	(430 911)
150001-130	(430 912)
150001-150	(430 913)

Module height	a	b	c	d
up to 1000 mm / 39.4 inches	965 mm / 38.0 inches	841 mm / 33.1 inches	530 mm / 20.9 inches	360 mm / 14.2 inches
up to 1300 mm / 51.2 inches	1195 mm / 47.0 inches	995 mm / 39.2 inches	850 mm / 33.5 inches	600 mm / 23.6 inches
up to 1500 mm / 59.1 inches	1445 mm / 56.9 inches	1360 mm / 53.5 inches	960 mm / 37.8 inches	690 mm / 27.2 inches



Flat roof support Light N07 (30 degrees, aluminum, screwed)

150002-100	(430 921)
150002-130	(430 922)
150002-150	(430 923)

Module height	a	b	c	d
bis 1000 mm / 39.4 inches	965 mm / 38.0 inches	841 mm / 33.1 inches	530 mm / 20.9 inches	360 mm / 14.2 inches
bis 1300 mm / 51.2 inches	1195 mm / 47.0 inches	995 mm / 39.2 inches	850 mm / 33.5 inches	600 mm / 23.6 inches
bis 1500 mm / 59.1 inches	1445 mm / 56.9 inches	1360 mm / 53.5 inches	960 mm / 37.8 inches	690 mm / 27.2 inches



Flat roof support Profi U07 (30 degrees, aluminum, screwed)

151001-150	(430 941)
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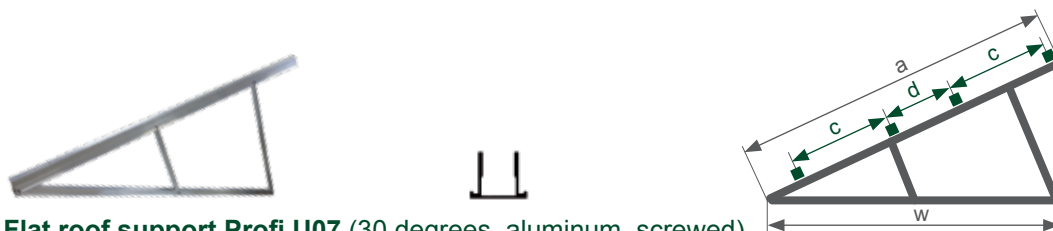
Module height	a	b	c	d
up to 1500 mm / 59.1 inches	1445 mm / 56.9 inches	1360 mm / 53.5 inches	960 mm / 37.8 inches	690 mm / 27.2 inches



Flat roof support Profi N07 (30 degrees, aluminum, screwed)

151002-150	(430 951)
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Module height	a	b	c	d
up to 1500 mm / 59.1 inches	1445 mm / 56.9 inches	1360 mm / 53.5 inches	960 mm / 37.8 inches	690 mm / 27.2 inches



Flat roof support Profi U07 (30 degrees, aluminum, screwed)

151001-220 (430 942)

Module height	a	b	c	d
up to 2200 mm / 86.6 inches	2200 mm / 86.6 inches	1995 mm / 78.5 inches	747 mm / 29.4 inches	460 mm / 18.1 inches



Flat roof support Profi N07 (30 degrees, aluminum, screwed)

151002-220 (430 952)

Module height	a	b	c	d
up to 2200 mm / 86.6 inches	2200 mm / 86.6 inches	1995 mm / 78.5 inches	747 mm / 29.4 inches	460 mm / 18.1 inches



Flat roof support Light XL07 (30 degrees, aluminum, screwed)

155001-300 (430 971)

155001-320 (430 972)

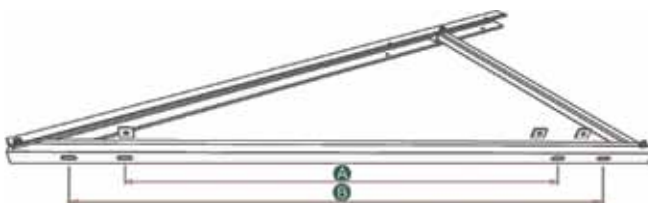
155001-360* (430 973)*

Module height	a	b	c	d
up to 3000 mm / 118.1 inches	2995 mm / 117.9 inches	2765 mm / 108.9 inches	1000 mm / 39.4 inches	700 mm / 27.6 inches
up to 3200 mm / 126.0 inches	3195 mm / 125.8 inches	2795 mm / 110.0 inches	about 1080 mm / 42.5 inches	733 mm / 28.9 inches
up to 3600 mm / 141.7 inches	3595 mm / 141.5 inches	3495 mm / 137.6 inches	variable drill hole, 3-rowed arrangement possible	

* Special application:

- 3-rowed arrangement
- 5-rowed arrangement, with lienar support (please also see product sheet LaQ)
- Measures and hole pattern according to order (see check list)

hole distances of the bottom beam



Bottom beam	Light U07 1m	LightU07 1.3m	Light U07 1.5m	Profi U07 1.5m
Hole distances	Item nr. 430911	Item no. 430912	Item no. 430913	Item no. 430941
A	mm	537 +/- 8	635 +/- 8	940 +/- 8
	inches	21.14 +/- 0.315	25 +/- 0.315	37 +/- 0.315
B	mm	757 +/- 8	855 +/- 8	1160 +/- 8
	inches	29.8 +/- 0.315	33.66 +/- 0.315	45.67 +/- 0.315

Support accessories:

SolTub - project-specific!

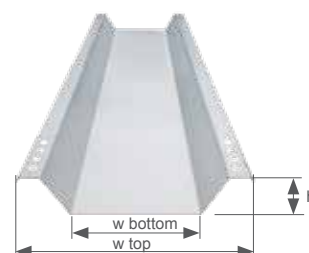
Gravel tray standard length 2.2 m / 86.6 inches

161001-000 **SolTub S gravel tray for 36 kg per m, 2.2 m (small)**
(430 755)

	w bottom	w top	h
mm	227	428	77
inches	8.9	16.9	3.0

161002-000 **SolTub L gravel tray for 92 kg per m, 2.2 m (large)**
(430 756)

	mm	mm	mm
mm	332	588	130
inches	13.1	23.1	5.1



(430 77X)

Windsafe - project-specific!

Rear side covering for elevated PV-plants in order to reduce the wind loads that impact the system (this component is produced specifically for individual projects; only available on request!)

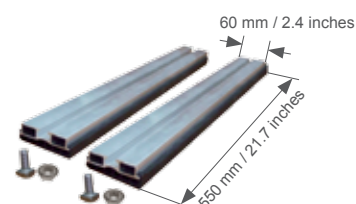


Illustration may be slightly different!

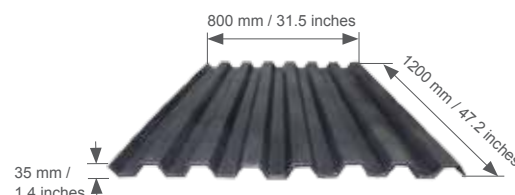
159000-150 **Tension strut 1500 mm kit diagonal bracing** Length about 1.5 m / 59.1 inches
 159000-200 **Tension strut 2000 mm kit diagonal bracing** Length about 2.0 m / 78.7 inches
 159000-250 **Tension strut 2500 mm kit diagonal bracing** Length about 2.5 m / 98.4 inches
 159000-300 **Tension strut 3000 mm kit diagonal bracing** Length about 3.0 m / 118 inches
 159000-400 **Tension strut 4000 mm kit diagonal bracing** Length about 4.0 m / 157 inches
 (430 926-...) Kit with self-drilling screws



159000-007 **Concrete block loading kit, aluminum**
(430 935) for loading with concrete curbstone or the like;
pairwise incl. 2 screw kits



160001-000 **SolRack plastic tray kit**
(400 939) suitable for all support designs for loading with gravel that is already on the roof or with concrete plates.
incl. screw kit for fixation
Material thickness: 8 mm / 0.315 inches



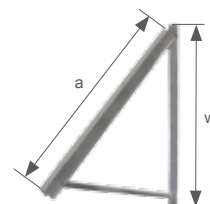
Special supports

Facade support with 15, 20, 25, [...5°-steps], 70, 75 degrees

Please specify the desired inclination! Aluminum, screwed

			Module height	a	b
156001-100	(430903)	Light 10	about 0.8-1.0 m / 31.5-39.4 inches	820 mm / 32 inches	840 mm / 33 inches
156001-130	(430904)	Light 13	about 1.0-1.3 m / 39.4-51.2 inches	1050 mm / 41 inches	1050 mm / 41 inches
156001-160	(430905)	Light 16	about 1.3-1.6 m / 51.2-63.0 inches	1285 mm / 50.6 inches	1260 mm / 49.6 inches
156002-160	(430906)*	Profi 16	about 1.3-1.6 m / 51.2-63.0 inches	1285 mm / 50.6 inches	1260 mm / 49.6 inches

* for heavy loads



Vegetated roof support with 15, 20, 25, 30 degrees

Please state the desired inclination! Aluminum, screwed

about 0.4 m / 15.75 inches clearance height

Length of the module angle: ca. 1.5 m / 59.06 inches

Suitable accessories: like for support Profi

- 152001-000 (430 907) **Vegetated roof support for modules 1.6m**
 154001-000 (430 908) **Vegetated roof support for CompactVario kit (incl. fitting kits)**



- 153001-000 (400 950) **Flat roof or bottom support VarioTop (from 10 up to 60 degrees)**

The variable support with summer and winter setting!

10% more annual yield by on re-setting in spring and autumn!



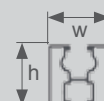
Profile series DN overview

Brochure

Double groove profiles with different spans as load distribution beams and continuous beams are available in different systems, like cross rail mounting, CompactVario, CompactGrid, for example. Can be combined optimally with the well-proven Klick-system.

available lengths

m	inches
6	236
and customized cuts	



Mounting beam DN0

	w	h
mm	40	40
inches	1.57	1.57

123001-001 Customized cut
123001-006 6 m / 236 inches

(400 064-...)

Mechanical connection:

Top: Klick groove M10
Bottom: Screw channel M10



Mounting beam DN1

	w	h
mm	40	80
inches	1.57	3.15

123002-001 Customized cut
123002-006 6 m / 236 inches

(400 065-...)

Mechanical connection:

Top: Klick groove M10
Bottom: Screw channel M10



Mounting beam DN2.5

	w	h
mm	50	110
inches	1.97	4.33

123004-001 Customized cut
123004-006 6 m / 236 inches

(400 084-...)

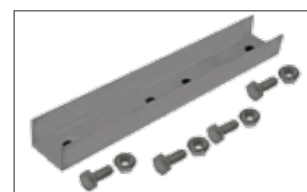
Mechanical connection:

Top: Klick groove M10
Bottom: Screw channel M10



Accessories for profile series DN:

129025-000 **Connector profile DN0 DN1 kit**
(400 065-VU) incl. bolts and nuts



129006-000 **Connector insertion DN1 kit**
(400 065-VE) incl. safety screws



129029-000 **Connector insertion DN2.5 kit**
(400 084-VE) incl. safety screws



Accessories for profile series DN:

129023-000 Dowel clamp DN0 for special applications

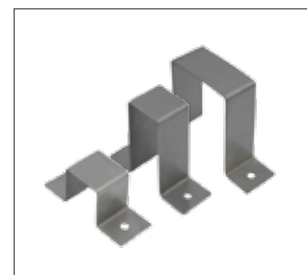
(400 064-DS)

129024-000 Dowel clamp DN1 for special applications

(400 065-DS)

129028-000 Dowel clamp DN2 for special applications

(400 082-DS)

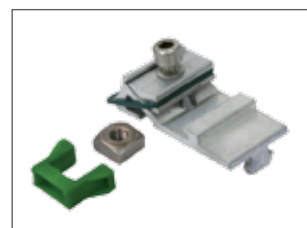


129004-001 KlickTop cross connector kit M10

(430 520-m10)

with bolt, click component and square nut for Klick groove M10 suitable for DN0 and DN1

➔ [GridNorm product sheet](#)



129010-001 KlickIn click component for nut M10

(430 025)

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



129012-010 Proklip2000-B cable clip round duct M10

(498 120)

round, to be snapped into the M10 screwing channel to optimize the cable routing



Area of application

All Schletter profile groups can be combined among each other for applications on pitched roofs, flat roofs and in open areas, and also for the most different kinds of special systems.

Chose the profile for your special case of application from our wide range in order to minimize the need for raw material.

Technical data

Material	Screws: High quality steel 1.4301; Profiles: Aluminum MgSi05 /EN AW 6063, EN AW 6005 Sheet metal components: High quality steel 1.4301
Structural analysis	Structural analysis acc. to the current specific national standards (in Germany DIN1055 and EC1). Structural analysis attachments on the dimensioning of the number of the required fixation spots, based on structural analysis. By all means consider the hints on structural safety! The verification of the adhesive force of the roof to the substructure is not included in the general structural analysis attachments!

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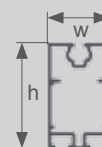
Profile series GP overview

Brochure

For objects with extra wide spans.

Available lengths

m	inches
6	236
8	315
and customized cuts	



Module bearing profile GP1

	w	h
mm	50	86
inches	1.97	3.39

Mechanical connection:

Top: Klick groove M8
Bottom: Screw channel M10

124201-001 Customized cut
124201-006 6 m / 236 inches
124201-008 8 m / 315 inches

(400 085-...)



Module bearing profile GP2

	w	h
mm	80	100
inches	3.15	3.94

Mechanical connection:

Top: Klick groove M8
Bottom: Screw channel M10

124202-001 Customized cut
124202-006 6 m / 236 inches
124202-008 8 m / 315 inches

(400 090-...)



Module bearing profile GP3

	w	h
mm	100	140
inches	3.94	5.51

Mechanical connection:

Top: Klick groove M8
Bottom: Screw channel M10

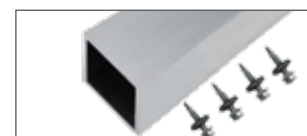
124203-001 Customized cut
124203-006 6 m / 236 inches
124203-008 8 m / 315 inches

(400 091-...)

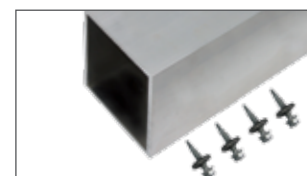


Accessories for profile series GP:

129020-000 **Insertion connector GP1 kit**
(400 085-VE) incl. safety screws



129021-000 **Insertion connector GP2 kit**
(400 090-VE) incl. safety screws



129022-000 **Insertion connector GP3 kit**
(400 091-VE) incl. safety screws



Accessories for profile series GP:

129010-008 KlickIn click component for nut M8
(430 024)
for simplified insertion of the M8 square nut
at any desired spot of the M8 "KlickIn" click groove



129012-008 Proklip-S cable clip rectangular duct M8
(498 111)
rectangular, to be clicked into the screwing channel M8
to optimize the cable routing



129012-010 Proklip2000-B cable clip round duct M10
(498 120)
round, to be clicked into the M10 screwing channel
to optimize the cable routing



Area of application

All Schletter profile groups can be combined among each other for applications on pitched roofs, flat roofs and in open areas as well as for the most different kinds of special systems.
Chose from the variety the profile for your special case of application in order to minimize the need for raw material.

Technical data

Material	Screws: High quality steel 1.4301; Profiles: Aluminum MgSi05 /EN AW 6063, EN AW 6005 Sheet metal components: High quality steel 1.4301
Structural analysis	Structural calculation acc. to the current specific national standards (in Germany DIN1055 and EC1). Structural analysis attachments on the dimensioning of the number of the required fixation spots, based on structural analysis. By all means pay regard to the hints on structural safety! The verification of the adhesive force of the roof to the substructure is not included in the general structural analysis attachments!

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PvMax3 open area system

Brochure

The PvMax3 system is an economically optimized modular unit assembly system for different module arrangements that can also be applied in exposed locations (snow, wind).

Module rack PvMax3, aluminum screwed

Truss supports made of 100% Aluminium (screws made of high quality steel) for mounting on concrete strip foundations

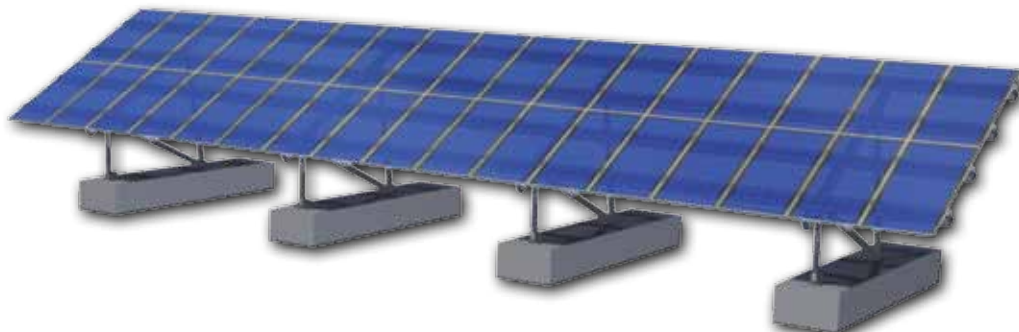
- Quick mounting, partly pre-assembled
- Foundation and foundation connection must be provided by the customer
- Standard sizes up to 3.8 m complete module height (z.B. 2 x 1.9 m)
- Available with 15/20/25 and 30° degrees
- Object-specific special project plannings are possible



Rack arrangements with rack length of 6, 8, 14, 18 and 20 m

- Usually, no diagonal bracings are required
- Object-specific special project plannings are possible
- Module beams of the S-purlin series

Please make a request for a complete offer for your desired module arrangement!



Screws and accessories

Brochure

943608-025	(451 825)	Hexagon head screw, VA M8x25 (V4A!)	
943610-025	(451 025)	M10x25	
943610-030	(451 030)	M10x30	
943610-035	(451 035)	M10x35	
943610-100	(451 000)	M10x100	

943410-025	(451 026)	Hexagon head screw, VA M10x25	
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943510-020	(452 020)	Carriage bolt, VA M10x20	
943510-025	(452 025)	M10x25	

943912-008	(460 108)	Flange nut with locking teeth anti-twist device integrated in the flange, VA M8	
943912-010	(460 110)	M10	
943912-012	(460 112)	M12	

943916-008	(460 208)	Hexagon nut, VA M8	
943916-010	(460 210)	M10	
943916-012	(460 212)	M12	

943921-008	(461 108)	Washer, VA 8	
943921-010	(461 110)	10	
943921-012	(461 112)	12	

943922-008	(461 208)	Big washer, VA M8	
943922-010	(461 210)	M10	
943922-012	(461 212)	M12	

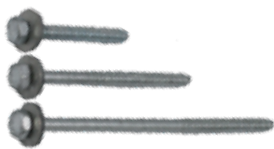
943308-120	(459 820)	Socket head screw	
943308-125	(459 825)	M8x20 with serration at the bottom side of the screw head	
943308-130	(459 830)	M8x25 with serration at the bottom side of the screw head	
943308-135	(459 835)	M8x30 with serration at the bottom side of the screw head	
943308-040	(453 840)	M8x35 with serration at the bottom side of the screw head	
943308-055	(453 855)	M8x40	
943308-060	(453 860)	M8x55	

943000-034	(400 728)	Secufix anti-theft device for socket head screw M8	
182003-000		Secufix steel ball TORX T40 5.00mm (Rapid) is simply hammered into the screw head!	
182002-000	(400 728-2)	Secufix2 anti-theft device for even better protection is delivered as a kit	

943914-008	(460 308)	Square nut M8, V4A suitable for all Schletter system profiles in combination with Klick-groove and click component	
943914-010	(460 310)	Square nut M10, V4A	
943914-108	(460 310-M8)	Special square nut M8, V4A (Design like M10) suitable for all Schletter system profiles in combination with Klick-groove M10 and click component	

943911-008	(460 408)	Self-locking nut, V4A	
943911-010	(460 410)	M8	
943911-012	(460 412)	M10	

943931-008	(461 308)	Locking washer, VA	
943931-010	(461 310)	8	
943931-108	(461 408)	10	

		Self-tapping thread screw	
943765-050	(462 210)	for steel up to 2mm	
943765-075	(462 212)	6.5x50	
943765-100	(462 214)	6.5x75	
943765-125	(462 216)	6.5x100	
943765-150	(462 218)	6.5x125	
943765-200	(462 220)	6.5x150	
		for steel up to 2mm	
943708-064	(462 412)	8x64 - on request	
943708-100	(462 414)	8x100 - on request	
943708-125	(462 416)	8x125 - on request	
943708-150	(462 418)	8x150 - on request	
943708-200	(462 420)	8x200 - on request	
		for steel starting from 2mm	
943718-064	(462 512)	8x64	
943718-100	(462 514)	8x100	
943718-125	(462 516)	8x125 - on request	
943718-150	(462 518)	8x150	
943718-200	(462 520)	8x200 - on request	

Wood screw

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

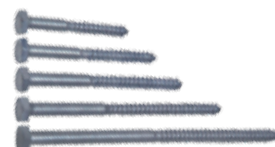
Wood screw VA

943108-080	(456 080)	8x80
943108-100	(456 100)	8x100
943108-120	(456 120)	8x120
943108-150	(456 150)	8x150
943108-200	(456 200)	8x200



Galvanized wood screw

942108-080	(455 080)	8x80
942108-100	(455 100)	8x100
942108-120	(455 120)	8x120
942108-150	(455 150)	8x150
942108-200	(455 200)	8x200



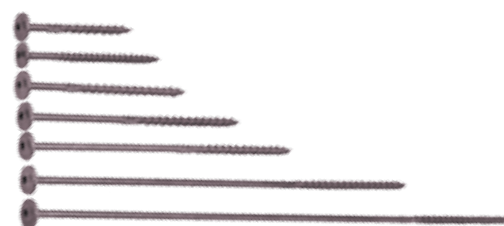
195000-002 (457 001)

Torx T40-Bit for wood screws with flat head
suitable for **Rapid2+** and newer systems



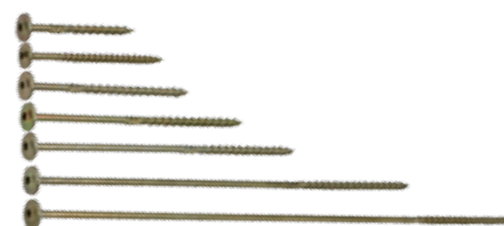
Wood screw with flat head VA 1.4301

943208-080	(458 080)	8x80
943208-100	(458 100)	8x100
943208-120	(458 120)	8x120
943208-160	(458 160)	8x160
943208-200	(458 200)	8x200
943208-240		8x240
943208-260		8x260
943208-300	(458 300)	8x300
943208-340		8x340
943208-360		8x360
943208-400	(458 400)	8x400



Galvanized wood screw with flat head

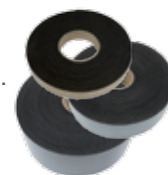
942208-080	(457 080)	8x80
942208-100	(457 100)	8x100
942208-120	(457 120)	8x120
942208-160	(457 160)	8x160
942208-200	(457 200)	8x200
942208-240		8x240
942208-260		8x260
942208-300	(457 300)	8x300
942208-340		8x340
942208-360		8x360
942208-400	(457 400)	8x400



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

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

973000-013	(400 750-25)	25mm wide
973000-014	(400 750-48)	48mm wide
973000-015	(400 750-80)	80mm wide



195000-001 (400873-SL)

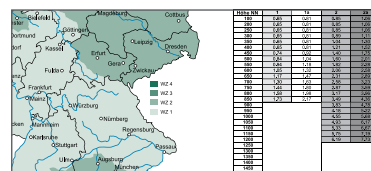
Ratchet wrench SW15
suitable for flange nut M10



I400001GB **Brochure** (the current version in each case)
Mounting and project planning



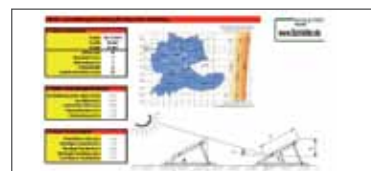
I400079DE **Struct. analysis of the system** - Basic version for pitched roofs
I400080DE **Struct. analysis of the system** - Basic version for flat roofs
System statics - Complete version with all attachments
(on payment of a nominal charge)



400 620 **Autokalkulator support program**
with all current price lists, available in 5 languages



400 621 **Shade calculation support program**
for flat roofs



400 630 **Information CD featuring documents and product pictures**
on request



400 650 **Module stand**
Module stand with metal base and wooden supports
incl. fixation kit for module.
Please specify your module type when placing an order!



400 652-S **Trade fair stand, ca. 1x2m, rollable**
"Standard systems"
400 652-Iso „IsoTop system for roofs of industrial buildings“
400 652-FS „FS open area system“
400 652-KV „Compact Vario“



400 651-1 **Sample case**
Contains essential product samples
of the Schletter mounting systems



Item numbers - an overview of the changes

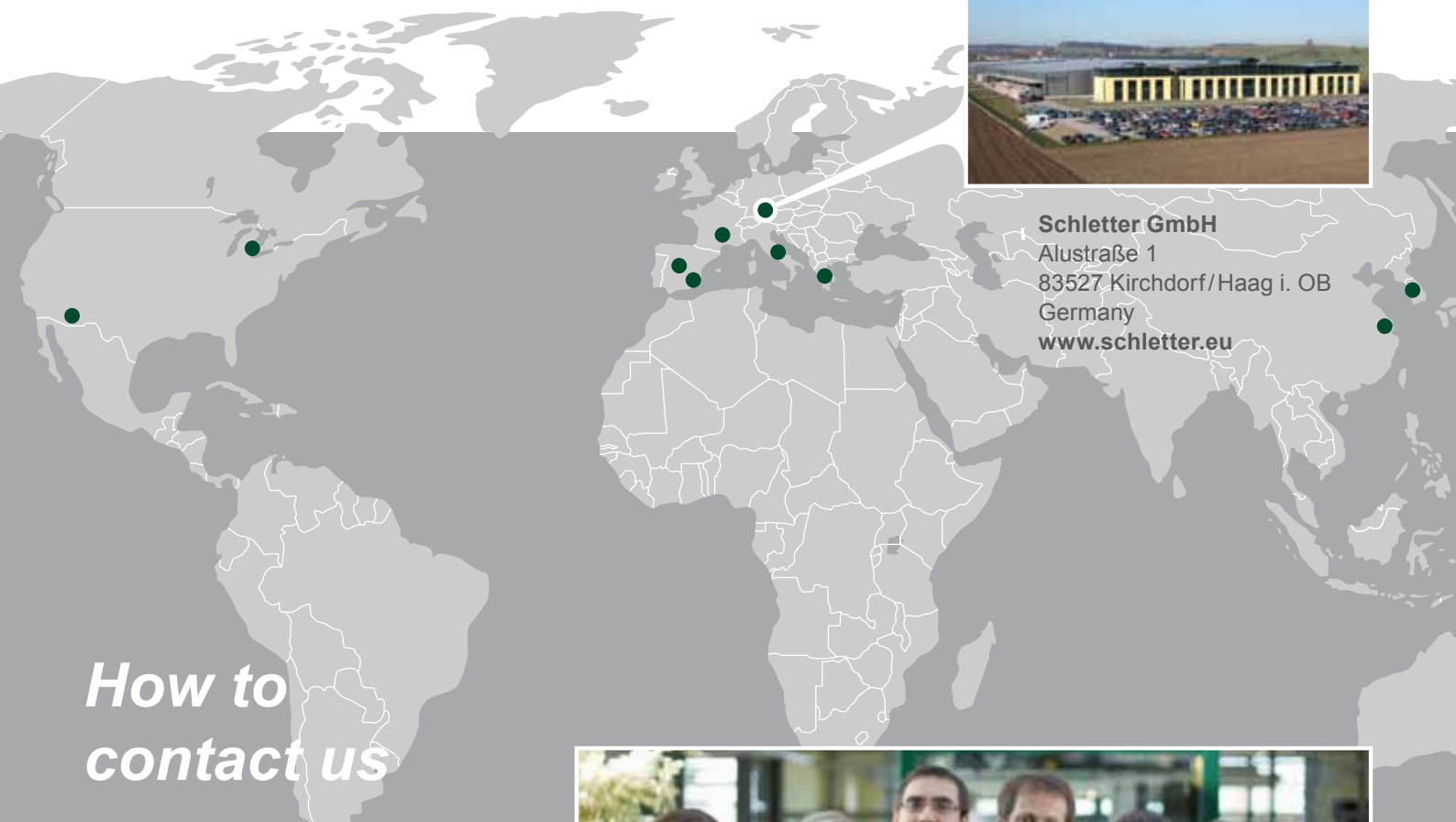
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400064-6	123001-006	400285-xx	136101-040	400752-12-300	943812-300	400894-5	109007-005
400064-DS	129023-000	400285-xx	136101-042	400752-12-350	943812-350	400896	109009-002
400064-M	123001-001	400285-xx	136101-044	400752-12-400	943812-400	400896-1000	925120-001
400065-6	123002-006	400285-xx	136101-045	400753-10-200	110010-200	400896-1000	925120-002
400065-DS	129024-000	400285-xx	136101-046	400753-12-200	110012-200	400896-W	109010-000
400065-M	123002-001	400285-xx	136101-048	400753-12-300	110012-300	400939	160001-000
400065-VE	129006-000	400285-xx	136101-050	400753-12-350	110012-350	400939-O	160001-001
400065-VU	129025-000	400285-xx	136101-051	400753-12-400	110012-400	430010-4	120003-004
400082-DS	129028-000	400285-xx	136101-052	400754	119002-000	430010-6	120003-006
400082-M	123003-001	400288 - m12	136202-012	400754-D	119003-000	430010-M	120003-001
400082-VU	129027-000	400288 - m22	136202-022	400755	973000-002	430015-4	120004-004
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400091-M	124203-001	400434-o	130001-034	400872-R	100004-002	430070-6	120002-006
400091-VE	129022-000	400435-o	130001-035	400872-V	100003-000	430070-6200	120002-100
400230-o	130002-001	400436-o	130001-036	400872K135	100004-001	430070-M	120002-001
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400254-A	911000-166	400450-o	130001-050	400873K-G	113002-001	430214	129014-004
400254-m4	133140-140	400451-o	130001-051	400874	109003-000	430215	129014-002
400255	133280-080	400503	112001-000	400875	109004-000	430216	129014-005
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400280-M	122001-001	400651-1	195000-004	400878-DS	973000-016	430251-m6	134060-168
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430520-M8	129004-000
430755	161001-000
430756	161002-000
430757	161001-001
430758	161002-001
430780-250-2200	164000-000
430780-500-2200	164000-001
430800	101001-000
430800-001	943000-005
430801	101001-001
430802	101002-000
430803	101003-000
430804	101004-000
430805	101005-000
430806	101006-000
430810	131003-000
430811	131003-001
430812	131002-000
430813	131002-001
430820	135002-000
430821	135002-001
430828	131001-028
430829	131001-029
430830	131001-030
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430840	131001-040
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430842	131001-042
430843	131001-043
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430846	131001-046
430847	131001-047
430848	131001-048
430849	131001-049
430850	131001-050
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430870-001-5	973000-020
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430879-12-200	114001-001
430879-12-300	114002-001
430901	159000-001
430902	973000-003
430903	156001-100
430904	156001-130
430905	156001-160
430906	156002-160
430907	152001-000
430908	154001-000
430911	150001-100
430912	150001-130
430913	150001-150
430920-G	911000-158
430921	150002-100
430922	150002-130

OLD	NEW
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430926-2500	159000-250
430926-3000	159000-300
430926-4000	159000-400
430931	150003-000
430932	150003-001
430933	150003-002
430935	159000-007
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430942	151001-220
430951	151002-150
430952	151002-220
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430962	151003-001
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440121-8	124501-008
440121-M	124501-001
440122-6	124502-006
440122-8	124502-008
440122-M	124502-001
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440510-M	124400-001

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440513-8	124404-008
440513-M	124404-001
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440520-8	124600-008
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440835	973000-021
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451000	943610-100
451012-120	943612-120
451016	943610-016
451020	943610-020
451025	943610-025
451026	943410-025
451030	943610-030
451035	943610-035
451080	943610-080
451090	943610-090
451211	943612-100
451280	943612-080
451616	943616-160
452020	943510-020
452025	943510-025
453820	943308-020
453825	943308-025
453830	943308-030
453835	943308-035
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453860	943308-060
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454845	943000-103
454850	943000-049
454860	943000-066
454870	943000-067
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455120	942108-120
455150	942108-150
455200	942108-200
456008-060	943108-060
456080	943108-080
456100	943108-100
456120	943108-120
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456200	943108-200
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457100	942208-100
457120	942208-120
457160	942208-160
457200	942208-200
457300	942208-300
457400	942208-400
458080	943208-080
458100	943208-100
458120	943208-120
458160	943208-160
458200	943208-200
458240	943208-240
458260	943208-260
458300	943208-300

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458360	943208-360
458400	943208-400
459820	943308-120
459825	943308-125
459830	943308-130
459835	943308-135
460108	943912-008
460110	943912-010
460112	943912-012
460208	943916-008
460210	943916-010
460212	943916-012
460308	943914-008
460310	943914-010
460310-M8	943914-108
460408	943911-008
460410	943911-010
460412	943911-012
460508	943917-008
460901	943000-065
461108	943921-008
461110	943921-010
461112	943921-012
461208	943922-008
461210	943922-010
461211	943000-001
461212	943922-012
461308	943931-008
461310	943931-010
461408	943931-108
462150	943706-025
462163	943765-025
462210	943765-050
462212	943765-075
462214	943765-100
462216	943765-125
462218	943765-150
462220	943765-200
462412	943708-064
462414	943708-100
462416	943708-125
462418	943708-150
462420	943708-200
462512	943718-064
462514	943718-100
462516	943718-125
462518	943718-150
462520	943718-200
463008-025	943000-007
463008-035	943000-003
464008-044	943000-009
464008-055	943000-010
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481100	109011-000
497400	129036-000
497480	139005-000
497481	139006-000
497482	139006-001
497483	139007-000
497484	139007-001
498040	973000-007
498110	129012-002
498111	129012-008
498114	129005-000
498120	129012-010



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For a comprehensive and competent consulting during 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.