



Professional PV mounting systems



System catalogue
2026



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novotegra Europe
the professionals



Our commitment, the perfect solution for every roof.

We have been successful on the market with our photovoltaic mounting system for many years - and worldwide.

Here at **novotegra GmbH**, we manufacture our own mounting systems, specially developed for photovoltaic installations. We sell our diverse product portfolio exclusively via the BayWa r.e. distribution network and have always stood for safe and efficient solutions.

Experience built in as standard. We are able to draw on more than two decades of experience in the development of mounting systems. Our solutions were already being used successfully in the 1990s and have been officially marketed under our own name since 2006. Since novotegra GmbH was founded in 2021, we have grown into an independent company and are now represented throughout Europe with our pioneering concepts.

The perfect solution for every roof. We offer solutions for practically all roof types, from standard pitched roofs to flat roofs and special solutions. Whether bitumen, trapezoidal metal or metal tile roofs, our flexible systems are versatile and tailored in detail to the respective roof type.

Market research on the roof, not in the office. The basis for the development of our installation system is close cooperation with the installers. Out on the construction sites, we familiarize ourselves with the installers' work down to the last detail. Whether it's technical service, purchasing or marketing, almost everyone at our company has

been on a roof and installed something themselves. This valuable experience helps us to improve our products, and we pay particular attention to making working with our components as easy as possible.

Uncompromising quality. We test our systems on our in-house test bench as well as at numerous test facilities throughout Europe. Our aim is to match all components perfectly to the needs of our customers and the local conditions. To achieve this, all our departments work hand in hand. Strict quality controls also ensure that our customers can rely on precisely manufactured, durable and high-quality products

„We do a lot to ensure the success of our customers. High-quality products and optimal service are crucial here“

Thomas Pfaff & Stefan Krokowski
Management board



Our **360° service,** more than just a manufacturer.

Technical innovations and well thought-out products alone are not enough. We are there to support our customers, from planning to installation.

Initial mounting support
(2025)

72

Field work (since 2021)

121

A partnership-based working model. In addition to providing the perfect equipment, we also share our comprehensive know-how with the installer. We provide advice already in the planning stage of an installation. Whether in person or digitally, our technical service is happy to help. If you are installing novotegra for the first time, you can take advantage of our initial mounting support or pick up tips and tricks online in advance.

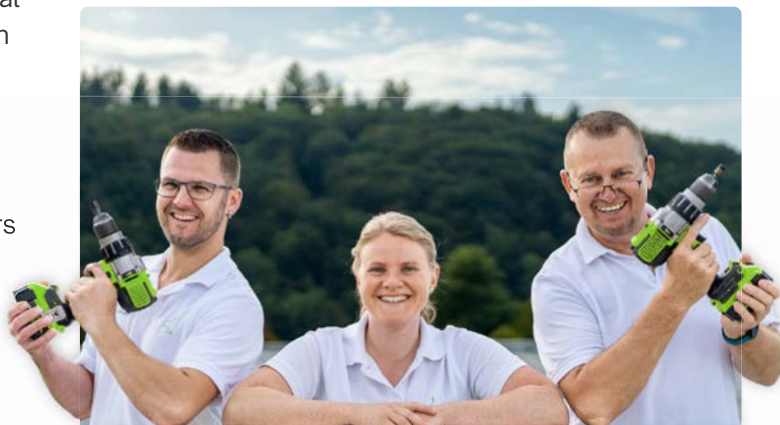
Stay on top of things. Since the world of photovoltaics is constantly evolving, we make sure that everything stays up to date. With seminars, webinars and information events, we provide our customers with the latest knowledge about our mounting systems as well as general market developments. In this way, we ensure that we and our customers are always at the cutting edge of technology

+ Training, seminars, webinars

The right training is the key to success. Our training courses, seminars and webinars are an important key to building knowledge and developing skills. Our experienced technicians and experts are happy to provide valuable tips and advice on our systems. In this way, we pass on our know-how and respond to the individual needs of our customers. As a result, we are in constant communication with our customers and are always in touch with the latest developments.

+ Partner programme

Our direct line to the installer. In our partner programme, not only we enjoy the proximity to the installer, our partners also benefit from us. Whether it is new products or the latest news, our partners are among the first to hear about news from the novotegra world. To this end, we have set up a special partner portal with information and offers tailored to the needs of our closest partner



+ Initial mounting support

Practice makes perfect - if you are using one of our novotegra mounting systems for the first time and need support, our experts will be happy to provide you with active on-site assistance for a whole day. Our enthusiastic technicians have already completed several trips and are happy to provide valuable tips and advice. Together with the installers, we can achieve success as quickly as possible. Whether installation or structural calculations with Solar-Plan-it, we are happy to help and get our customers on track in no time at all.

Developed in **Germany**, proven throughout Europe.

Since 2006, novotegra has been developing high-quality mounting systems in Germany, which are distributed exclusively by BayWa r.e. distribution companies throughout Europe.



Available throughout Europe. Our customers can find everything they need to install their systems in our wholesalers' warehouses. Together with a well-organized logistics network, a very high availability of our components is guaranteed, even for less common roof types. In close cooperation with international forwarding agents, our sales partners ensure that all orders arrive at the construction site on time, guaranteeing short delivery routes.

Close by — everywhere. Together with our sales partners, we have built up a Europe-wide network, so we are always there where our customers need us. Whether Scandinavia or southern Italy, Brittany or the Baltic - our competent team of experts is on hand with help and advice



Head office

Tübingen, Germany



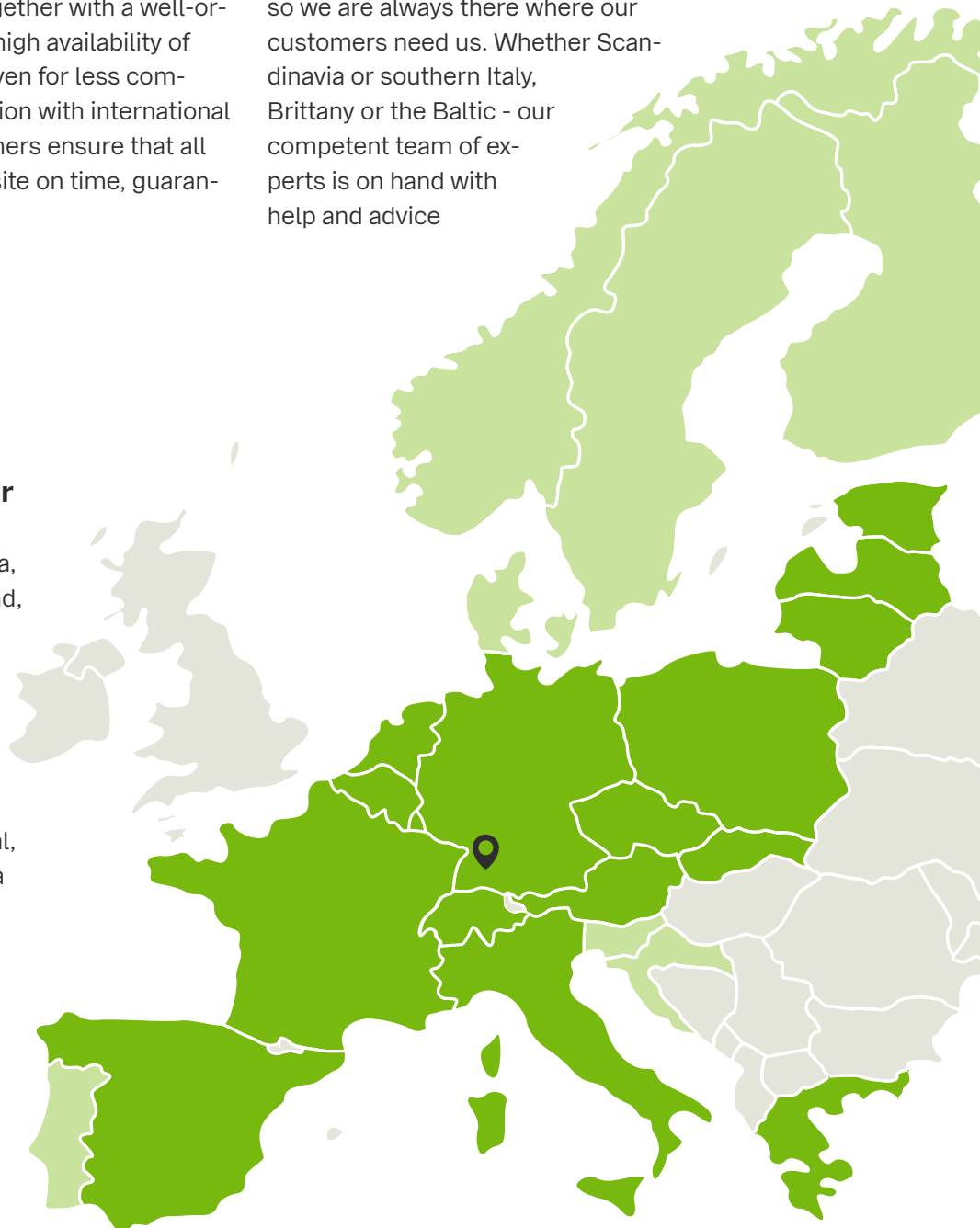
BayWa r.e. wholesaler

BeNeLux, Germany, France, Greece, Italy, Latvia, Austria, Poland, Switzerland, Spain, Czech Republic



Market support

Bulgaria, Denmark, Estonia, Finland, Croatia, Liechtenstein, Lithuania, Norway, Portugal, Sweden, Slovakia, Slovenia



Quality that lasts, technology that impresses.

High quality standards and transparent documentation are not enough for us. That is why we have our systems independently tested and certified.

Prepared for the future. Extreme weather conditions will become increasingly common in the future. Whether wind, rain, or snow, our novotegra systems are already well equipped to handle them. We have designed our systems to be as robust as possible. This allows us to prevent damage caused by excessive snow loads or the system being lifted off the roof covering in extreme winds.



CE-marking

The in-house monitoring for the mounting system by novotegra GmbH meets all mandatory requirements stipulated in EN 1090-1:2009+A1:2011, Annex ZA as the foundation of the CE marking within the framework of the EU Regulation no. 305/2011 (Construction Product Regulation – CPR). Execution in accordance with EN 1090-2 and EN 1090-3, EXC1.



General approvals by the building authorities

For your safety, we had the static calculations of relevant parts of the system checked by independent authorities. We received the following general approvals from Deutsches Institut für Bautechnik (German Institute for Structural Engineering):

- Z-14.4-716: Connections for PV mounting systems
- Z-14.4-723: Rail connectors and base profile
- Z-14.4-735: Module attachments, module supports, cross rail connectors
- Z-14.4-741: Roof hooks, stock screws, attachments to the rail base



TÜV Rheinland certification

The reliability and quality of our mounting system has been certified with the TÜV Rheinland test mark. The inspection catalogue for the certification includes all building laws and technical requirements that mounting systems must meet. This ensures that all our photovoltaic mounting systems are produced in the same way as the tested systems – with the same materials and processes and thus with the same quality.

By the way: our sales and support services also convinced the auditors



Certification according ISO 9001:2015

Quality does not come by itself - it must be planned, controlled and monitored. Well-designed workflows and customer-oriented processes contribute greatly to the quality of our mounting system. In a monitoring audit by TÜV SÜD, we were now able to prove the successful implementation of this quality management standard.



Certification according ISO 14001:2015

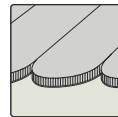
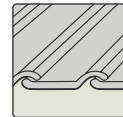
We not only deal intensively with the topic of sustainability in the form of our business field, but the topic also plays an omnipresent role in our everyday work and our business processes. TÜV SÜD has now confirmed that we are already on the right track!

Our **mounting systems**, robust, easy to maintain, versatile.

One system for everything, whether it's a single-family home or an industrial hall. novotegra adapts to the building, the requirements, and the electricity goals.

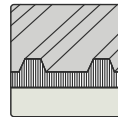
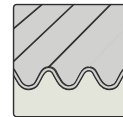
Whether you have a pitched roof or a flat roof, and regardless of the type of roofing material, novotegra's range of PV mounting systems offers an easy-to-install, safe, and reliable solution for installing a photovoltaic system on

In addition, novotegra also offers mounting systems for photovoltaic systems on facades and an in-roof mounting system. What they all have in common is certified quality, high reliability, and flexibility that meets all the needs of the trade. See for yourself.



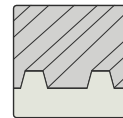
Tile and beaver tail roof

Clamping systems, insertion systems, top-fix, side-fix



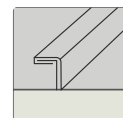
& sandwich roof

Clamping systems, insertion systems



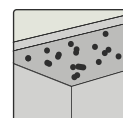
Trapezoidal metal roof

Clamping systems, insertion systems, elevation, trapezoidal bracket, short rail



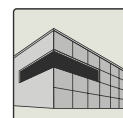
Seamed metal roof

Clamping systems, insertion systems



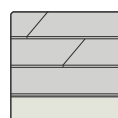
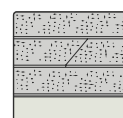
Flat roof & Green roof

Flat roof I, Flat roof II, Flat roof III, Green roof, Gravel roof



Facade-PV

Insertion systems



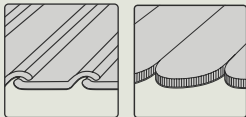
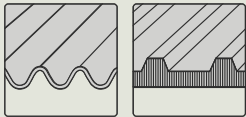
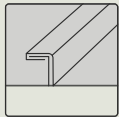
Bitumen and foil pitched roof

Direct fixing
Anchor solution

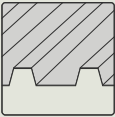
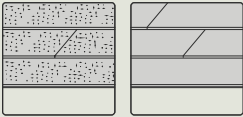


Pitched roof systems

Overview

Roof covering	Tiles		Corrugated & sandwich panels		Seamed metal sheet	
						
Roof attachment	 Roof hook  side-fix		 Roof hook  top-fix		 Stock screw	
	 Seam clamps  ¹		 Seam clamps  ²			
Mounting rail	 C-N-rails  black & blank		 C-rails  black & blank		No mounting rail required	
Module attachment			 Clamping & insertion system  black & blank		 Insertion system  black & blank	

¹Clamping system, ²Insertion system

 Trapezoidal sheet		 Bitumen and roof sealing membranes		Roof covering
 Trapezoidal brackets	 Short rails		 Anchor on site	Roof attachment
No mounting rail required			 C-rails ● black & blank	Mounting rail
 Insertion system ● black & blank	 Clamping & insertion system ● black & blank		 Clamping system ● black & blank	Module attachment



Installed here:

Tile roof side-fix

Two roof hooks for it all.

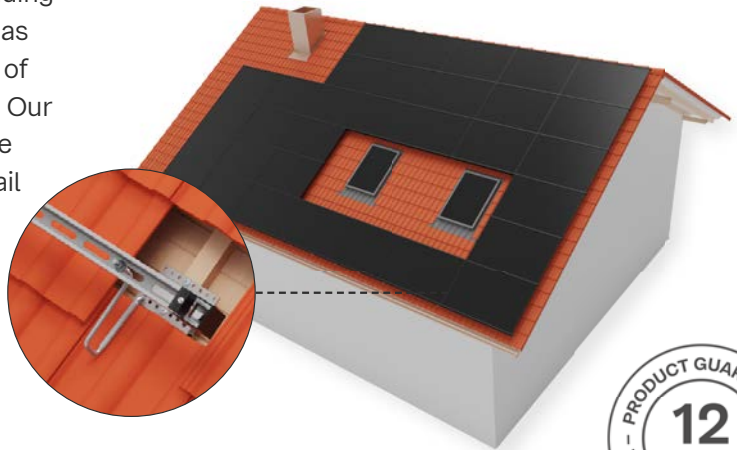
Tile roof systems



A roof hook for 80% of roofs – novotegra makes it possible.

For the installation of PV systems on tile roofs, we recommend our clamping or insertion system, depending on your requirements. Both systems are available as top-fix and side-fix variants. We offer a wide range of roof hooks that can be installed quickly and easily. Our insertion system provides an elegant and attractive solution: for a uniform appearance, the insertion rail can be selected in a color that matches the module frame.

Imagine no longer having to sort and pick different hooks, but only one universal hook. novotegra makes this possible and covers 80% of all roofs with one roof hook – simpler, faster, and cheaper!



+ C-rail

- integrated cable channel
- Module carrier and crossbar at the same time
- big cantilever possible
- robust & step-resistant
- **novotegra multifit**



+ Insertion rail

- High-quality system appearance
- Quick module installation
- Floating and tension-free module installation
- **novotegra multifit**



+ Roof hook

- Durable & robust
- Stable & load-bearing
- Corrosion-resistant

more information





Tile roof system



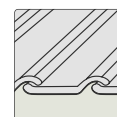
+ Direct mounting with Clamping and insertion system

- 3-way adjustable roof hook to compensate for irregular roofs, for different tile thicknesses and shapes
- Centric load distribution
- Narrow tile penetration, minimal tile modification
- Large Cantilever of the base profile on rafters possible without additional lateral shimming
- Cross and drop rail installation possible with the same components

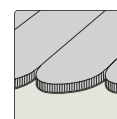


Requirements & Features	
Application	Pitched roof
Roof construction	Rafter roof
Rafter width	From 36 mm
Roof pitch	0 – 60°
Roof covering	Concrete roof tile, clay tile, Beavertail
Tile covering	95 – 135 mm
Roof attachment	Roof hook
Module orientation	Vertical and horizontal
Module attachment	Clamping system/Insertion system
Module dimensions	Length: no restrictions Width: up to 1340 mm
Module field size	Up to 40 m (with expansion joints)
Adjustment range of base profile	43 – 49 mm / 57 – 63 mm
Adjustment range of rail connection	35 mm
Lightning Protection	Yes
Potential equalisation	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

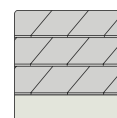
System Setup	
Roof attachment	 Roof hook  top-fix
Mounting rail	 C-rails  black & blank
Module attachment	 Clamping- and insertion system  black & blank



Clay tiles



Beavertail



Flat tile

Tile roof system



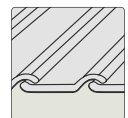
+ Efficient side mounting with clamping and insertion system

- Roof hooks can still be adjusted after screwing to compensate for irregular roofs, for different tile thicknesses and shapes
- Quick installation thanks to click technology
- C-N rail also serves as a cable channel
- Cross and drop rail installation possible with the same components

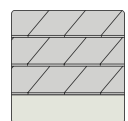


Requirements & Features	
Application	Tile roof
Roof construction	Rafter roof
Rafter width	From 36 mm
Roof pitch	0 – 60°
Roof covering	Concrete roof tile, clay tile
Tile covering	Up to 110 mm
Roof attachment	Roof hook
Module orientation	Vertical
Module attachment	Clamping system/Insertion system
Module dimensions	Length: no restrictions Width: up to 1340 mm
Module field size	Up to 13 m
Adjustment range of base profile	From 45 mm
Adjustment range of rail connection	20 mm / 26 mm
Lightning Protection	Yes
Potential equalisation	Yes
Corrosion class	C 4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Roof hook 
Mounting rail	 C-N-rails ● black & blank
Module attachment	 Clamping- and insertion system ● black & blank



Clay tiles



Flat tile



Our **roof hook**

Stable, flexible, long-lasting.



+ ZD 30 M12



+ flex 18



+ Double roof hook

+ Three-way adjustability

- Fine-step height adjustment of the hook on the basic profile, no need for shimming
- Continuous height adjustment to the rail to compensate roof irregularities
- Big cantilever of the bottom plate on the rafter due to wide base profile for optimum positioning in the wave trough

+ Unique design

- Solid stainless steel roof hook in combination with aluminum base profile
- Slim bracket shape: Enables tile gap of only 15 mm width
- Minimal processing of the tiles
- Installation is possible at almost all clay and concrete roof tiles, even for strongly corrugated tile shapes
- Almost invisible hooks give the module field a floating appearance
- Connection of the rail from above enables installation of vertical and cross rails with the same hook

+ Centric load distribution

- Rail connection centered above the base profile
- Load is transferred to the base profile with minimal leverage
- Almost no bending of the hook even under heavy loads - no tile breakage
- Minimum load on the fastening screws in the rafters

+ ZD 30 N35

- Easy connection from the side
- Quick roof hook installation thanks to click technology
- For mounting horizontal and vertical rails
- Rail-roof hook connection height adjustable in slotted hole with ribbing up to approx. 20 mm
- For tile overlaps up to 110 mm



+ ZD 544



+ ZD 533



+ ZD 633

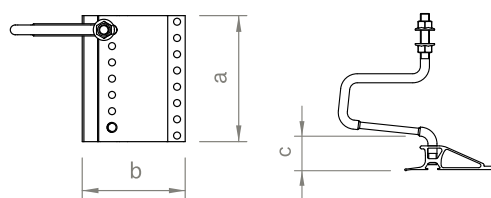
	ZD 30 M12				ZD 40 M12	ZD 30 M12 long	ZD 40 M12 long		BS 30 M12	flex 18 M10				flex 30 M10	flex 30 M12	flex 40 M10		ZD 30 N35	ZD 544 landscape	ZD 533 portrait	ZD 633 portrait	
Clay tile					+									+					+			
Beavertail tile					-				+					+					-			
Concrete tile					+									+					+			
Horizontal rail					+				+					+				+	+	-	-	
Vertical rail					+				+					+				+	-	+	+	
Load capacity					+				+					+				+	+	+	+	
Height adjustment base profile	43–49 mm	57–63 mm	43–49 mm	57–63 mm					42–48 mm	28–47 mm	40–52 mm	50–62 mm					ab 45 mm + shims				41–56 mm	
Height adjustment rail connection	35 mm								35 mm	30 mm								20 mm	26 mm			
Tile overlap	95 mm		135 mm						-	95 mm								110 mm	100 mm			
min. rafter width	48 mm								48 mm	36 mm								46 mm				
Rafter insulation	+								+	-								+	+	+	-	



Single items

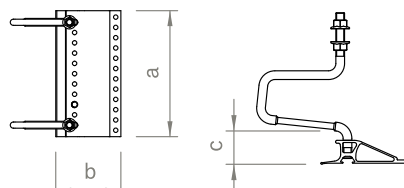
Tile roof

Roof attachment



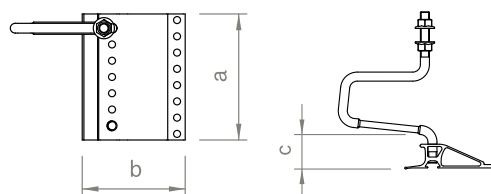
Roof hooks for mounting C-rails as vertical and horizontal rails, rail-roof hook connection height-adjustable up to 35 mm, roof hook-base profile connection height-adjustable for 24 – 30 mm or 31 – 40 mm batten, for tile overlap up to approx. 95 mm, depending on tile type. For the roof hook long up to approx. 95 mm or depending on the type of crucible up to approx. 135 mm.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000254	Roof hook set ZD 30 M12	155	126	43 – 49	Alu/A2SS
03-000256	Roof hook set ZD 40 M12	155	126	57 – 63	Alu/A2SS
03-001723	Roof hook set ZD 30 M12 long	155	126	43 – 49	Alu/A2SS
03-001725	Roof hook set ZD 40 M12 long	155	126	57 – 63	Alu/A2SS



Roof hooks for mounting C-rails as horizontal rails, optimised for heavy loads, rail-roof hook connection height-adjustable up to 35 mm, roof hook base profile connection height-adjustable for 24 – 30 mm or 31 – 40 mm batten, for tile overlap up to approx. 95 mm, depending on tile type.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000255	Double roof hook set ZD 30 M12	245	126	43 – 49	Alu/A2SS
03-000257	Double roof hook set ZD 40 M12	245	126	57 – 63	Alu/A2SS
03-001724	Double roof hook set ZD 30 M12 long	245	126	43 – 49	Alu/A2SS
03-001726	Double roof hook set ZD 40 M12 long	245	126	57 – 63	Alu/A2SS



Base profile for bridging missing rafters.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001804	Longboard ZD 30 240	2400	100	33	Alu/A2SS

Roof attachment



Roof hooks for adjusting C-rails as vertical rails and horizontal rails, optimised for narrow rafters, rail-roof hook connection height-adjustable up to 30 mm, roof hook-base profile connection height-adjustable for 18–24 mm, 24–30 mm or 31–40 mm roof battens, for tile coverage up to approx. 95 mm, depending on tile type.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001109	Roof hook set flex 18 M10	120	80	23–47	Alu/A2SS
03-001149	Roof hook set flex 30 M10	120	80	40–52	Alu/A2SS
03-001151	Roof hook set flex 40 M10	120	80	50–62	Alu/A2SS

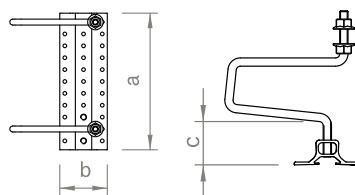


Roof hook for adjusting C-rails as horizontal rails, optimised for narrow rafters and high loads, rail-roof hook connection height-adjustable up to 30 mm, connection roof hook base profile height-adjustable for 24–30 mm or 31–40 mm roof battens, for tile coverings up to approx. 95 mm, depending on tile type.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001150	Double roof hook set flex 30 M10	230	80	40–52	Alu/A2SS
03-001152	Double roof hook set flex 40 M10	230	80	50–62	Alu/A2SS

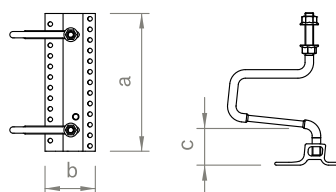


Roof attachment



Roof hooks for mounting C-rails as vertical and horizontal rails on roofs with beavertail tiles, rail-roof hook connection height-adjustable up to 35 mm, roof hook base profile connection height-adjustable for 24–30 mm roof battens, for double beavertail roofing.

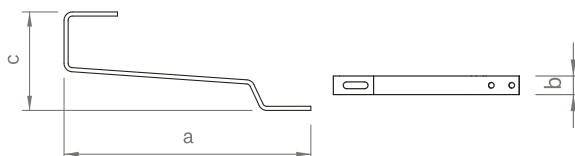
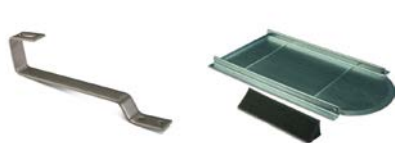
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000258	Roof hook set BS 30 M12	160	95	42–48	Alu/A2SS



Roof hooks for mounting C-rails as horizontal rails on roofs with beavertail tiles, optimised for high loads, rail-roof hook connection height-adjustable up to 35 mm, roof hook-base profile connection height-adjustable for 24–30 mm roof battens, for double beavertail roofing.

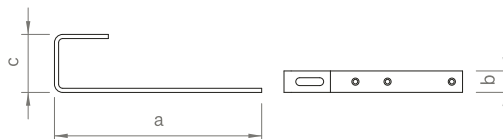
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000267	Double roof hook set BS 30 M12	260	95	42–48	Alu/A2SS

Roof attachment



Roof hook for mounting C-N rails as vertical rails and horizontal rails on roofs with plain tiles, connection rail roof hook with L-adapter in 11×41 mm slotted hole, for 24 mm roof battens. Set includes washer, screws and sealing wedge, for beavertail double plain tile roofing.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000410	Roof hook BS C-shape A2SS	300	30	120	A2SS
03-001855	Roof hook set BS C-shape A2SS with sheet	300	30	120	A2SS
03-000412	Galvanised beavertail underlay sheet	300	30	120	A2SS



Roof hook for mounting C-N rails or C-rails as vertical rails and horizontal rails on roofs with slate or shingle covering, connection rail roof hook with L-adapter in 11 x 41 mm slotted hole or in set with M10 round-head screw, for connecting C-rail.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000694	Roof hook S C-shape A2SS	250	30	70	A2SS
03-001219	Roof hook set S C-shape A2SS M10	250	30	70	A2SS

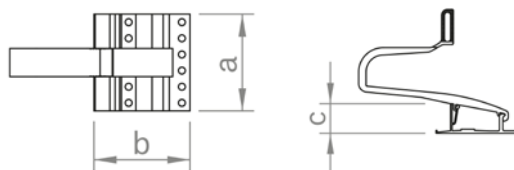


L-adapter set for connecting C-N rails to C-shaped roof hooks.

Item no.	Designation	Material
03-000530	L-adapter set C-N rail to C-shaped hooks	Alu/A2SS

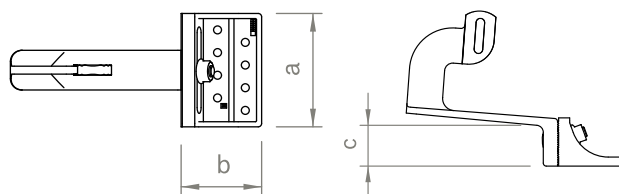


Roof attachment



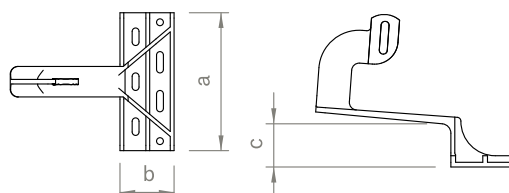
Roof hook for mounting C-N rails as drop and horizontal rails, connection rail roof hook height-adjustable in slotted hole with corrugation up to approx. 20 mm, for tile coverage up to approx. 110 mm.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001349	Roof hook set ZD 30 N35 v+h	120	119	45	Alu/A2SS



Roof hook for mounting C-N rails as vertical rails, connection rail roof hook height-adjustable in slotted hole 8.5 × 35 mm to 26 mm, bracket 32.5 mm on both sides, height adjustable 15 mm in slotted holes, tile coverage up to approx. 100 mm, for 30 mm roof battens.

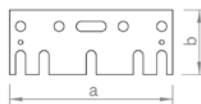
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000756	Roof hook adjustable 633 vertical	100	70	41–56	Alu cast/A2SS



Roof hook for mounting C-N rails as vertical rails, connection rail roof hook height-adjustable in slotted hole 8.5 × 35 mm with corrugation up to 26 mm, for tile coverage up to approx. 100 mm and 30 mm roof battens.

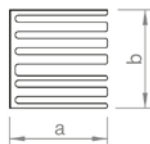
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000731	Roof hook ZD 533 vertical	181	71	46	Alu cast
03-000611	Roof hook ZD 544 horizontal	181	71	46	Alu cast

Roof attachment



Shim for side-fix roof hooks ZD 544 and 533 to compensate for the height difference between the roof hook and the roof battens.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000979	Shim for roof hook PP blue, 2 mm	180	71	2	PP
03-000980	Shim for roof hook PP grey, 5 mm	180	71	5	PP

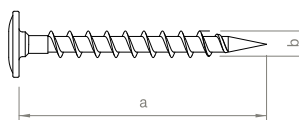


Shim for side-fix roof hook ZD 30 N35 to compensate for the height difference between the roof hook and the roof battens.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001338	Shim for roof hook ZD 30 N35, 2 mm	120	121	2	PP
03-001339	Shim for roof hook ZD 30 N35, 5 mm	120	121	5	PP



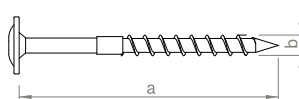
Roof attachment



Ø
6 mm

Wood screw, diameter 6 mm, with pan head and Torx drive 25, can be used for various roof hooks.

Item no.	Designation	a [mm]	b [mm]	Material
03-000268	Roof hook mounting screw 6×30	30	6	St. galv.
03-000269	Roof hook mounting screw 6×60	60	6	St. galv.
03-000271	Roof hook mounting screw 6×90	90	6	St. galv.
03-000272	Roof hook mounting screw 6×120	120	6	St. galv.
03-000273	Roof hook mounting screw 6×150	150	6	St. galv.
03-000270	Roof hook mounting screw 6×30 A2SS	30	6	A2SS
03-000274	Roof hook mounting screw 6×60 A2SS	60	6	A2SS
03-000278	Roof hook mounting screw 6×90 A2SS	90	6	A2SS
03-000279	Roof hook mounting screw 6×120 A2SS	120	6	A2SS
03-000280	Roof hook mounting screw 6×150 A2SS	150	6	A2SS

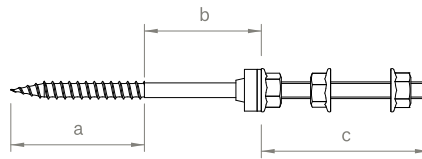


Ø
8 mm

Wood screw, diameter 8 mm, with pan head and Torx drive 40, suitable for various roof hooks, for lengths longer than 180 mm.

Item no.	Designation	a [mm]	b [mm]	Material
03-000281	Roof hook mounting screw 8×100	100	8	St. galv.
03-000282	Roof hook mounting screw 8×140	140	8	St. galv.
03-000283	Roof hook mounting screw 8×180	180	8	St. galv.
03-000303	Roof hook mounting screw 8×220	220	8	St. galv.
03-000304	Roof hook mounting screw 8×260	260	8	St. galv.
03-000305	Roof hook mounting screw 8×300	300	8	St. galv.
03-000306	Roof hook mounting screw 8×340	340	8	St. galv.

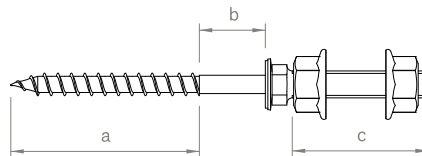
Roof attachment



Ø
M10/M12

Stock screw for timber purlins with hexagon drive 7 AF or 9 AF, for mounting C-rails or base plates, pre-assembled with EPDM seal and locking nuts 18 AF.

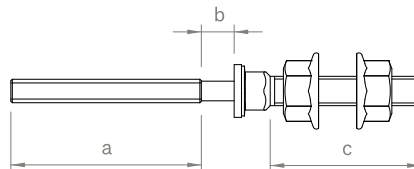
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000222	Stock screw set HP M10 200 mm	75	25	100	A2SS / EPDM
03-000223	Stock screw set HP M10 250 mm	75	75	100	A2SS / EPDM
03-000224	Stock screw set HP M10 300 mm	75	75	150	A2SS / EPDM
03-000211	Stock screw set HP M12 200 mm	75	25	100	A2SS / EPDM
03-000210	Stock screw set HP M12 250 mm	75	75	100	A2SS / EPDM
03-000216	Stock screw set HP M12 300 mm	75	75	150	A2SS / EPDM



Ø
M10

Stock screw for timber purlins with hexagon socket 5 mm, for mounting C-rails or base plates, with locking nuts 18 mm. Can be combined with the EPDM round seal d = 25 mm.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000894	Stock screw set HP 8.4-M10 160 mm	70	10	70	A2SS
03-000895	Stock screw set HP 8.4-M10 190 mm	90	20	70	A2SS
03-000940	Stock screw set HP 8.4-M10 210 mm	100	30	70	A2SS
03-000941	Stock screw set HP 8.4-M10 240 mm	120	40	70	A2SS
03-000942	Stock screw set HP 8.4-M10 260 mm	130	50	70	A2SS



Ø
M10

Stock screw for steel purlins with hexagon drive 5 AF, for mounting C-rails or base plates, with 18 AF locking nuts, combinable with EPDM round seal d = 25 mm.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000199	Stock screw set SP 8.0-M10 140 mm	65	10	50	A2SS
03-000202	Stock screw set SP 8.0-M10 185 mm	65	55	50	A2SS
03-000203	Stock screw set SP 8.0-M10 220 mm	65	90	50	A2SS
03-000943	Stock screw set SP 8.0-M10 260 mm	65	130	50	A2SS



Module attachment



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The clamping system – simple, stable and flexible

You can find all articles relating to our clamping system in the multifit chapter ➔ **from page 52**



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The insertion system – set, insert, done!

You can find all articles about our insertion system in the multifit chapter ➔ **from page 52**



Mounting rail with cable channel and groove, for use as a module support rail in clamping systems or as a horizontal rail, side groove with fluting for easy fixing from the side, available in blank or black anodised variations.

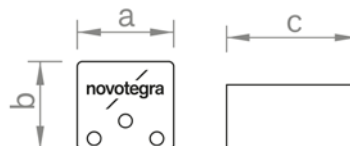
Item no.	Designation	a [mm]	b [mm]	Material
03-001672	C-N rail 37 2,40 m	52	37	Alu
03-001670	C-N rail 37 5,90 m	52	37	Alu
03-001728	C-N rail 60 5,90 m	52	60	Alu
03-001673	C-N rail 37 2,40 m black	52	37	Anodised aluminium
03-001671	C-N rail 37 5,90 m black	52	37	Anodised aluminium
03-001730	C-N rail 60 5,90 m black	52	60	Anodised aluminium



Connector C-N rail screw connection with two thin sheet screws with 8 AF hexagon drive.

Item no.	Designation	a [mm]	b [mm]	Length in mm	Material
03-001347	Rail connector set C-N 37 S	17,5	19	250	Alu/A2SS
03-001729	Rail connector set C-N 60 S	27	32	250	Alu/A2SS

End Cap



Black end cap for C-N rail, UV and weather resistant.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001343	End cap C-N 37 black	57	52	80	PP

Accessories and optional items



Image	Item no.	Item	Material	Description
1	03-000535	Metal shingle 280 x 230 mm	Aluminium	Aluminium metal shingle, on shingle coverings such as bitumen or slate, in combination with stock screws.
1	03-000536	Metal shingle 390 x 230 mm	Aluminium	
1	03-000537	Metal shingle 580 x 230 mm	Aluminium	
1	03-001693	Metal shingle 720 x 230 mm	Aluminium	
2	03-000184	EPDM round seal d = 25mm	EPDM	EPDM round sealant for use with stock screw set HP 8.4-M10 or stock screw set SP 8.0-M10.
3	03-000682	Slot bolt M8 with serrated locking nut, l = 22 mm	V2A	Slot Bolts for connecting C-N-rails to the roof hook side-fix.
3	03-001658	Slot bolt M8 N35h with serrated locking nut, l = 32 mm	V2A	
3	03-001657	Slot bolt M8 N35v with serrated locking nut, l = 52 mm	V2A	
4	03-001437	Grounding connector C-N-rail	V2A	Grounding connector for connecting the C-N rail to the lightning protection. For clamping 6–50 mm ² grounding wire or 2.8–8 mm diameter round wire.



Installed here:
Short rail C71



Fewer screws, more speed.

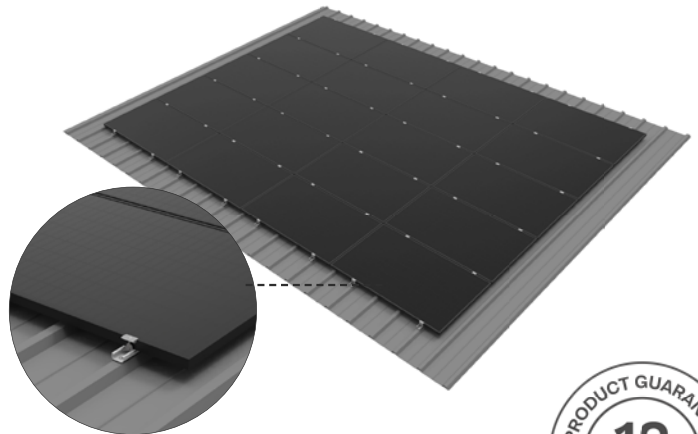
Trapezoidal metal roof systems



Your time is too valuable for unnecessary screws.

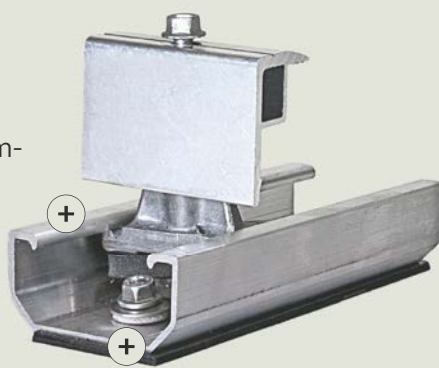
We offer a wide range of mounting systems for installing photovoltaic systems on trapezoidal metal roofs. We differentiate between roof-parallel applications and elevated variants. Particularly noteworthy is our system with a light elevation of 5°, which allows us to significantly increase module efficiency.

Imagine drilling 35% fewer holes. Less material, less effort – and ultimately a roof that stays watertight. That's exactly what you get with novotegra.



+ Short rail

- Centred hole pattern – fewer screws
- Completely pre-assembled with EPDM
- Available in various heights
- For very narrow high beads
- **novotegra multifit**



+ Direct fixing

- Durable & robust
- Stable & load-bearing
- Corrosion-resistant

+ Insertion rail

- High-quality system appearance
- Quick module installation
- Floating and tension-free module installation
- **novotegra multifit**



more information



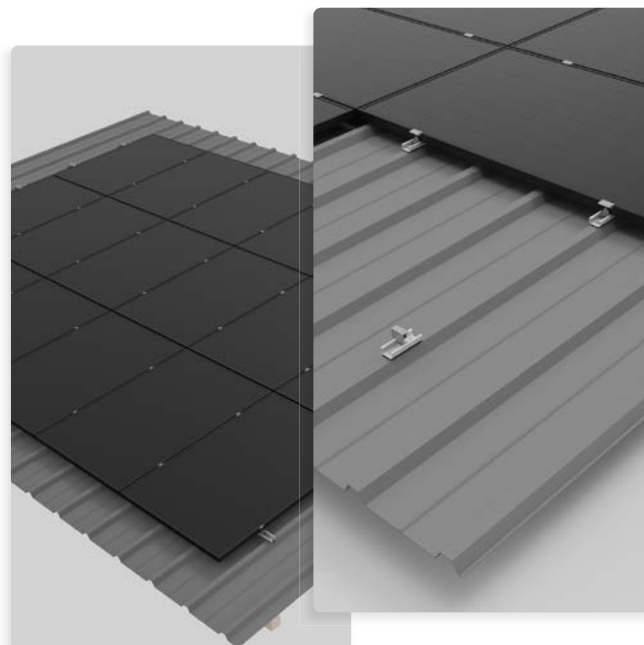


Trapezoidal metal roof



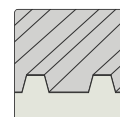
+ Direct mounting with clamping and insertion system

- Low logistical effort on the construction site
- Only one installation tool required
- Electrical conductivity between mounting system and roof cladding
- Direct fixing with building authority-approved screws
- Optional 5-degree elevation
- Centred hole pattern with 2 holes
- Installation on narrow high ridges (from 17 mm) possible
- Two screws sufficient for fastening, depending on load
- Pre-assembled with EPDM seal
- Self-sealing in combination with thin sheet screws

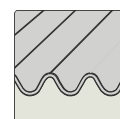


Requirements & Features	
Application	Pitched roof
Roof construction	Continuous
Roof pitch	0 – 60°
Roof covering	Trapezoidal metal (aluminium/steel)
Sheet thickness	Aluminium: 0.5 mm Steel: 0.4 mm
Roof mounting	Thin sheet screws
Module orientation	Vertical and horizontal
Module attachment	Clamping system/Insertion system
Module dimensions	Length: no restriction Width: up to 1340 mm
Distance module/substrate	26.5 – 73.5 mm
Lightning protection	Yes
Potential equalization	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Mounting screws
Mounting rail	 Short rail  top-fix
Module attachment	 Clamping or insertion system ● black & blank



Trapezoidal metal



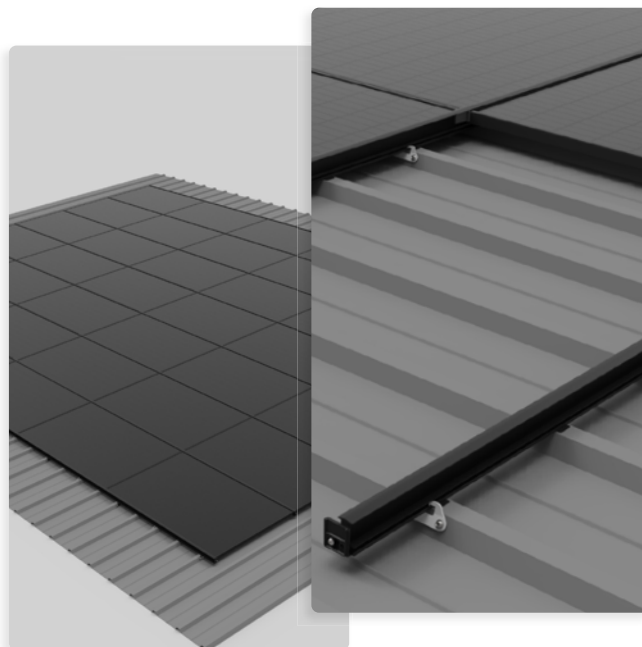
Corrugated sheet metal

Trapezoidal metal roof



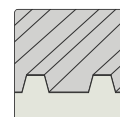
+ Insertion system with direct mounting

- Low logistical effort on the construction site
- Few components, completely pre-assembled
- Only one assembly tool required
- Electrical conductivity between mounting system and roof cladding
- Direct fastening with building authority-approved screws
- Pre-assembled with EPDM seal
- Self-sealing in combination with thin sheet screws
- High-quality system appearance and quick installation thanks to the insertion system



Requirements & Features	
Application	Pitched roof
Roof construction	Continuous
Roof pitch	0 – 60°
Roof covering	Trapezoidal metal (aluminium/steel)
Sheet thickness	Aluminium: 0.5 mm Steel: 0.4 mm
Roof mounting	Thin sheet screws
Module orientation	Vertical and horizontal
Module attachment	Insertion system
Module dimensions	Length: no restriction Width: up to 1340 mm
Lightning protection	Yes
Potential equalization	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Mounting screws
	 Trapezoidal brackets  side-fix
Module attachment	 Insertion system ● black & blank



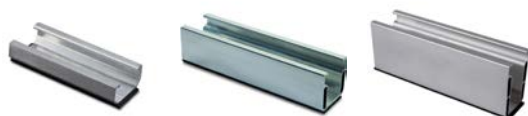
Trapezoidal metal



Single items

Trapezoidal metal roof

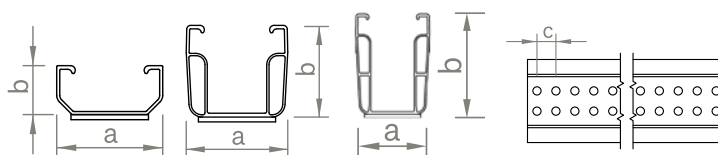
Roof attachment



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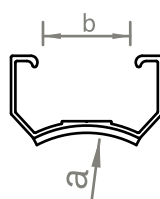
Suitable short rails for trapezoidal metal roofs: **C24, C47, C71**

You can find all variants of our short rails in the multifit chapter. → from page 52



Short rail with 5.2 mm perforation and pre-assembled sealant strip for mounting modules in portrait on trapezoidal or corrugated sheet. Chipless mounting is accomplished using the trapezoidal sheet mounting screw.

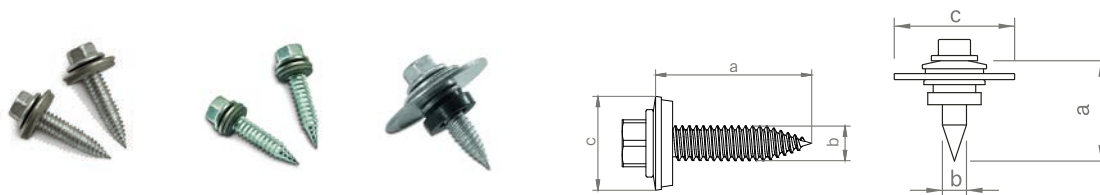
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001081	Short rail C24 with EPDM 385 mm	52	24	12	Alu / EPDM
03-000873	Short rail C47 with EPDM 385 mm	52	47	12	Alu / EPDM
03-001740	Short rail C71 with EPDM 385 mm	52	71	12	Alu / EPDM



Short rail with 5.2 mm diameter hole and pre-assembled seal for transverse module mounting on corrugated sheet metal, radius 39.4 mm. Assembly is chip-free using the trapezoidal fastening screw.

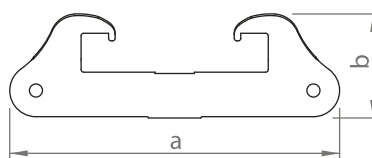
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001223	Short rail C33 R39.4 with EPDM 125 mm	39.4	33	20	Alu / EPDM

Roof attachment



Thin sheet screw for chipless attachment of short rails on the trapezoidal sheet, with 16 mm or 11 mm sealing washer depending on the fixing variation on the raised bead, 8 AF hexagon drive.

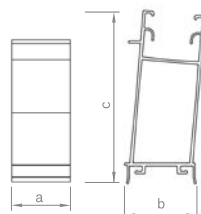
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000880	Trapezoidal mounting screw SL 6.0 x 25 E16	25	6	16	A2SS
03-000893	Trapezoidal mounting screw SL 5.5 x 25 E11	25	5,5	11	A2SS
03-000197	C-rail direct mounting set cl	25	6	30	A2SS/EPDM



Trapezoidal bracket with EPDM seal for fastening to trapezoidal metal sheet, with two thin sheet screws with 8 AF hexagon drive, for bead heights from 25 mm or 35 mm, for framed or frameless module insertion rails.

Item no.	Designation	a [mm]	b [mm]	Material
03-000459	Trapezoidal sheet bracket IR set 40×126 mm	126	40	A2SS
03-000451	Trapezoidal sheet bracket IR snow guard 45×141 mm	141	45	A2SS

Light elevation



Rear or front module supports for light mounting on trapezoidal metal sheet, for insertion in short profiles 385 mm.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001516	Module support 5° high	60	58	140	Alu
03-001517	Module support 5° low	60	58	65	Alu



Module attachment



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The clamping system – simple, stable and flexible

You can find all articles relating to our clamping system in the multifit chapter ➔ **from page 52**



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The insertion system – set, insert, done!

You can find all articles about our insertion system in the multifit chapter ➔ **from page 52**

Accessories and optional items



Image	Item no.	Item	Material	Description
1	03-000082	EPDM sealant strip 50 x 35 for C-rail	EPDM	EPDM sealant strips as a protective and sealing layer under the C-rail on trapezoidal metal sheet.
2	03-000633	EPDM sealant strip 70 x 28 x 2 mm IR	EPDM	EPDM sealant strip pads on rolls as a protective layer under the insertion rails on trapezoidal metal sheet.
3	03-000627	EPDM tape 10,000 x 54 x 3 mm IR	EPDM	EPDM tape as a protective layer under the insertion rails on trapezoidal metal sheet. Use in combination with the trapezoidal bracket.



Installed here:
Two-layer clamping system



Large span? No problem!

Corrugated & sandwich roof systems

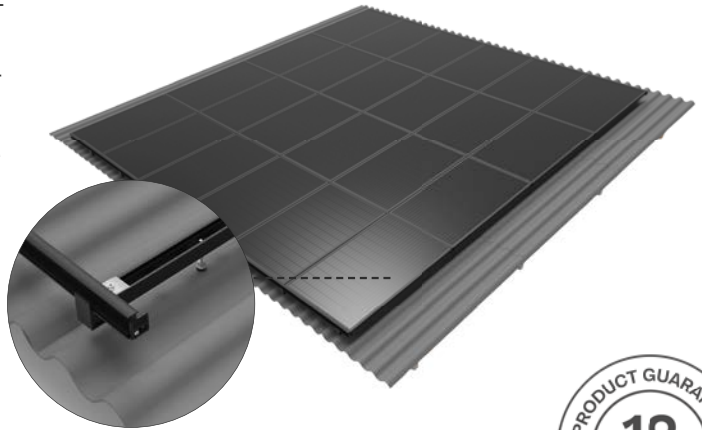


When things are far apart, our strength comes into play.

On corrugated eternit and sandwich roofs, PV systems are mounted directly onto the purlins of the roof structure using stock screws. Our mounting systems with suitable stock screws for wooden or steel purlins offer a secure solution for roof coverings with corrugated eternit or sandwich elements. The solution is available as a clamping or insertion system.

Install where others fail:

With the novotegra C-rail, you can master large purlin spacings on sandwich and corrugated eternit roofs – with up to 30% greater span.



+ C-Rail

- Integrated cable channel
- Module support and cross rail in one
- Large overhang possible
- Robust & slip-resistant
- **novotegra multifit**



+ Insertion rail

- High-quality system appearance
- Quick module installation
- Floating and tension-free module installation
- **novotegra multifit**



+ Stock screws

- Centric load distribution
- Fully pre-assembled
- Available in various lengths
- Also suitable for trapezoidal roofs

more information



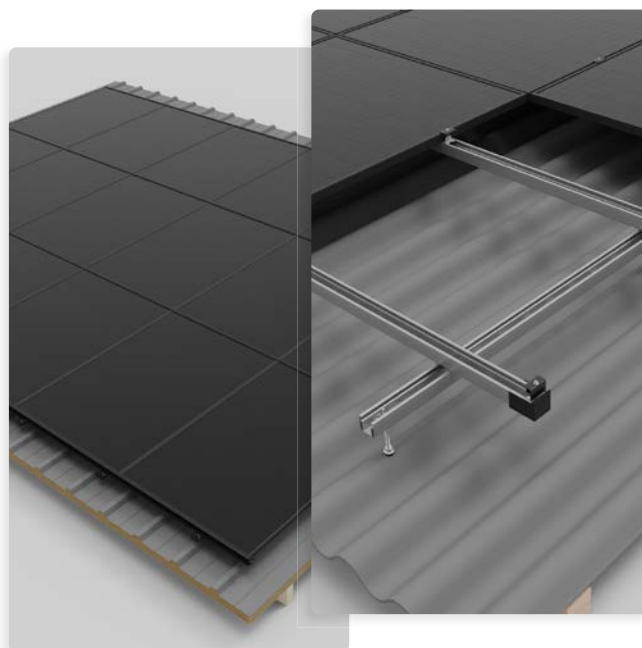


Corrugated & sandwich roof



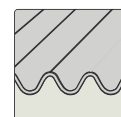
+ Direct mounting with clamping and insertion system

- Fully pre-assembled stock screws with centric load distribution
- Solutions for timber and steel purlins
- Cross-system components
novotegra multift
- C-rail also serves as a cable channel
- Long spans possible – installation also possible with large purlin spacing

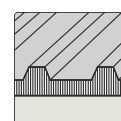


Requirements & Features	
Application	Pitched roof
Roof construction	Rafters/purlins
Rafter width	70 mm (M10)/84 mm (M12)
Material quality of steel purlins	S 235
Roof pitch	0 – 60°
Roof covering	Corrugated eternit, sandwich, shingle, trapezoidal metal sheet
Roof attachment	Stock screw
Module orientation	Vertical and horizontal
Module attachment	Clamping system/Insertion system
Module dimensions	Length: no restrictions Width: up to 1340 mm
Module field size	Up to 40 m (with expansion joints)
Lightning Protection	Yes
Potential equalisation	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Stock screws
Mounting rail	 C-rails ● black & blank
Module attachment	 Clamping or insertion system ● black & blank



Corrugated



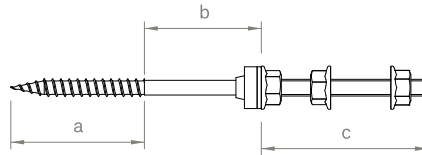
Sandwich



Single items

Corrugated & sandwich roof

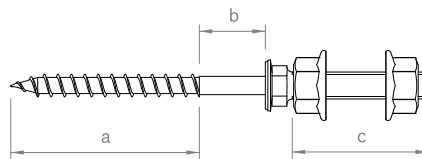
Roof attachment



Ø
M10/M12

Stock screw for timber purlins with hexagon drive 7 AF or 9 AF, for mounting C-rails or base plates, pre-assembled with EPDM seal and locking nuts 18 AF.

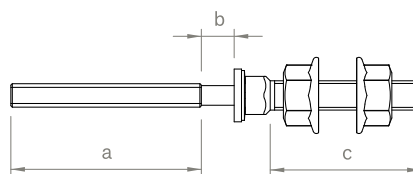
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000222	Stock screw set HP M10 200 mm	75	25	100	A2SS / EPDM
03-000223	Stock screw set HP M10 250 mm	75	75	100	A2SS / EPDM
03-000224	Stock screw set HP M10 300 mm	75	75	150	A2SS / EPDM
03-000211	Stock screw set HP M12 200 mm	75	25	100	A2SS / EPDM
03-000210	Stock screw set HP M12 250 mm	75	75	100	A2SS / EPDM
03-000216	Stock screw set HP M12 300 mm	75	75	150	A2SS / EPDM



Ø
M10

Stock screw for timber purlins with hexagon socket 5 mm, for mounting C-rails or base plates, with locking nuts 18 mm. Can be combined with the EPDM round seal d = 25 mm.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000894	Stock screw set HP 8.4-M10 160 mm	70	10	70	A2SS
03-000895	Stock screw set HP 8.4-M10 190 mm	90	20	70	A2SS
03-000940	Stock screw set HP 8.4-M10 210 mm	100	30	70	A2SS
03-000941	Stock screw set HP 8.4-M10 240 mm	120	40	70	A2SS
03-000942	Stock screw set HP 8.4-M10 260 mm	130	50	70	A2SS



Ø
M10

Stock screw for steel purlins with hexagon drive 5 AF, for mounting C-rails or base plates, with 18 AF locking nuts, combinable with EPDM round seal d = 25 mm.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000199	Stock screw set SP 8.0-M10 140 mm	65	10	50	A2SS
03-000202	Stock screw set SP 8.0-M10 185 mm	65	55	50	A2SS
03-000203	Stock screw set SP 8.0-M10 220 mm	65	90	50	A2SS
03-000943	Stock screw set SP 8.0-M10 260 mm	65	130	50	A2SS



Module attachment



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The clamping system – simple, stable and flexible

You can find all articles relating to our clamping system in the multifit chapter ➔ **from page 52**



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The insertion system – set, insert, done!

You can find all articles about our insertion system in the multifit chapter ➔ **from page 52**

Accessories and optional items



1

Bild	Art.-Nr.	Bezeichnung	Material	Beschreibung
1	03-000184	EPDM round seal d = 25mm	EPDM	EPDM round seal for use with stock screw set HP 8.4-M10 or stock screw set SP 8.0-M10.



Installed here:

Clamping system Standing seam clamps



Good-looking, fast, economical.

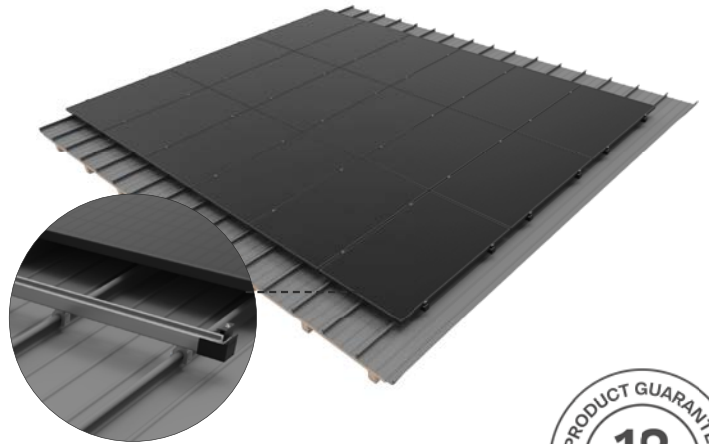
Seamed metal roof systems



Seamed metal roof? Simple solution. Without cross rails.

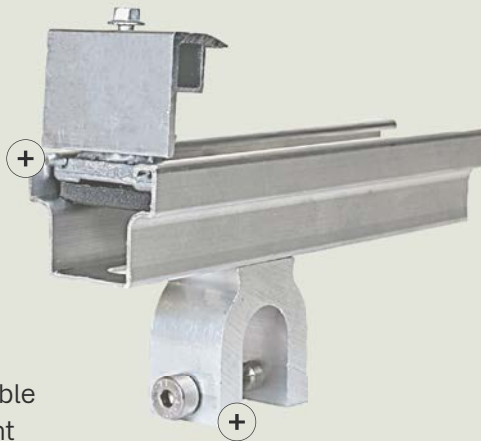
We offer both a clamping and an insertion system for seamed metal roofs. A wide range of seam clamps ensures secure, stable fastening on standing seam or round seam roofs. The PV system is installed using our proven clamping or insertion system, whereby the modules can be mounted vertically or with horizontal mounting.

The novotegra mounting system for seamed metal roofs saves where others waste. Instead of complex cross-rail structures, we simply attach the insertion rail directly to the clamp. This reduces the number of components, installation time and costs – and ensures a light, stable result.



+ C-Rail

- Integrated cable channel
- Module support and cross rail in one
- Large overhang possible
- Robust & slip-resistant
- **novotegra multifit**



+ Insertion rail

- High-quality system appearance
- Quick module installation
- Floating and tension-free module installation
- **novotegra multifit**



+ Seam clamps

- Durable & robust
- Stable & load-bearing
- Corrosion-resistant

more information



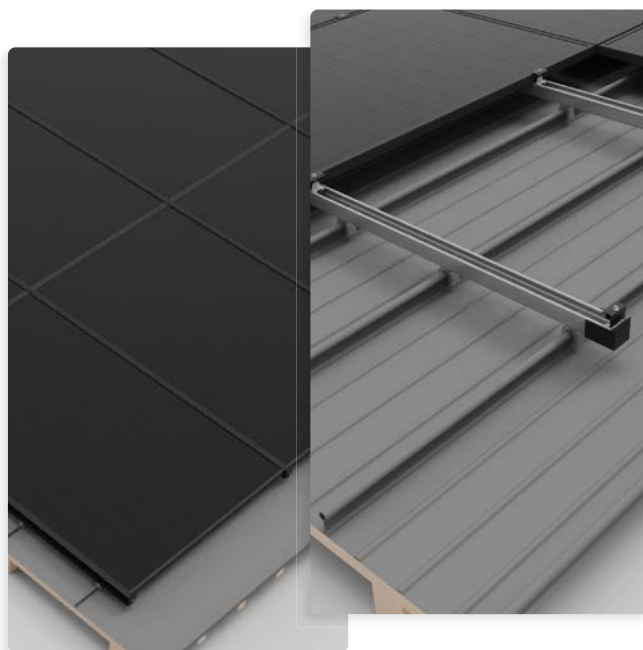


Seamed metal roof



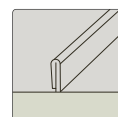
+ Direct fastening with clamping and insertion system

- Penetration-free clamping on the seam
- Optionally available with VA saddle for standing seam roofs made of copper
- Completely pre-assembled seam clamps for
- Various seams
- Centric load distribution – no leverage effect on the seam clamp
- Quick installation from above with easy-to-grip components
- Cost-optimised single-layer system

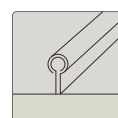


Requirements & Features	
Application	Pitched roof
Roof pitch	0 – 60°
Roof covering	Sheet metal seam
Sheet metal thickness	0.8 mm
Sheet metal material	Aluminium, steel, copper, stainless steel
Roof attachment	Seam clamps
Module orientation	Vertical and horizontal
Module attachment	Clamping system/Insertion system
Module dimensions	Length: no restrictions Width: up to 1340 mm
Module field size	Up to 5.9 m
Lightning Protection	Yes
Potential equalisation	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

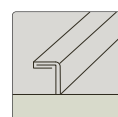
System Setup	
Roof attachment	 Seam clamps clamping system  Seam clamps insertion system
Mounting rail	 C-Rail ● black & blank No mounting rail required
Module attachment	 Clamping system ● black & blank  Insertion system ● black & blank



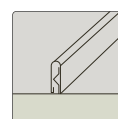
standing seam



round seam



angle seam

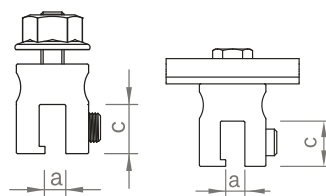


snap seam

Single items

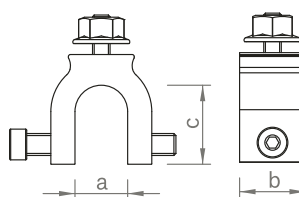
Seamed metal roof

Roof attachment



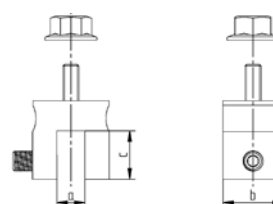
Clamp with grub screw for standing seam roofs. With locking nut AF 18 for fastening C-rails or hexagon grub screw AF 5 (pre-assembled with IR horizontal rail connector and hexagon screw AF 13) for direct fastening of insertion rails. Optionally with stainless steel saddle for mounting on copper roofs.

Item no.	Designation	a [mm]	Length [mm]	c [mm]	Material
03-000219	Standing seam clamp set M8	7.4	30	17	Alu/A2SS
03-000369	Standing seam clamp set M8 for copper	7.4	30	17	Alu/A2SS
03-001028	Standing seam clamp set 150 IR M8	7.4	150	17	Alu/A2SS
03-001466	Standing seam clamp set 150 IR M8 for copper	7.4	150	17	Alu/A2SS



Clamp with grub screw and hexagon socket head cap screw AF 5 for round seam roofs and a locking nut AF 18 for fastening C-rails. Clamp with grub screws for round seam roofs, drive grub screw hexagon socket AF 5, pre-assembled with horizontal rail connector IR and hexagon screw AF 13 for direct fastening of insertion rails.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001069	Rounded seam clamp set M8	24	30	36	Alu/A2SS
03-001763	Rounded seam clamp set 150 IR M8	24	150	24	Alu/A2SS



Clamp with grub screw and hexagon socket head cap screw AF 5 for snap and angle seams and a locking nut AF 18 for fastening C-rails. Clamp with grub screws for snap and angle seam roofs, drive grub screw hexagon socket AF 5, pre-assembled with horizontal rail connector IR and hexagon screw AF 13 for direct fastening of insertion rails.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001764	Snap/angled seam clamp set M8	14	30	24	Alu/A2SS
03-001765	Snap/angled seam clamp set 150 IR M8	14	150	24	Alu/A2SS



Module attachment



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The clamping system – simple, stable and flexible

You can find all articles relating to our clamping system in the multifit chapter ➔ **from page 52**



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The insertion system – set, insert, done!

You can find all articles about our insertion system in the multifit chapter ➔ **from page 52**



Accessories and optional items

**1**

Image	Item-No.	Item	Material	Description
1	03-001135	A2SS-saddle for standing seam clamp 150	A2SS	Stainless steel saddle for mounting on copper roofs.
1	03-000338	A2SS-saddle for standing seam clamp	A2SS	



Installed here:
Anchor solution

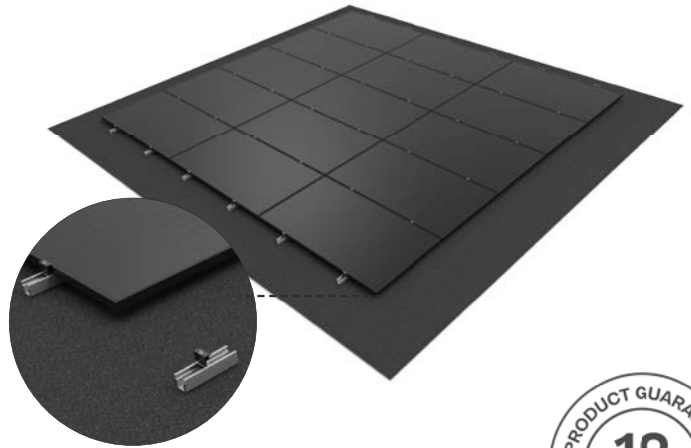
Bitumen & foil pitched roof systems



Fewer questions. More trust. Clear basis for calculation.

With our clamping system for bitumen roofs, we offer the option of direct fastening parallel to the roof on bitumen shingles and bitumen sheets on wooden formwork. The same profiles are used as for direct fastening to trapezoidal metal roofs. We also offer the option of fastening our C-rails with anchors – both on bitumen and foil pitched roofs. Slotted holes in the base of the C-rail allow the anchors to be connected in the middle, thus ensuring maximum stability.

With novotegra, you are not tied to a specific anchor. Simply enter the anchor values directly into the planning tool – and you will have a secure, individually calculated solution. This means maximum flexibility with consistent safety.



+ Short rail

- Centred hole pattern,
- fewer screws
- Completely pre-assembled with EPDM
- Available in various heights
- **novotegra multifit**



+ Anchor

- Compatible with a wide range of anchor products (e.g. Z-shape, threaded rod, etc.)

+ C-Rail

- Integrated cable channel
- Module support and cross rail at the same time
- Large overhang possible
- **novotegra multifit**



more information



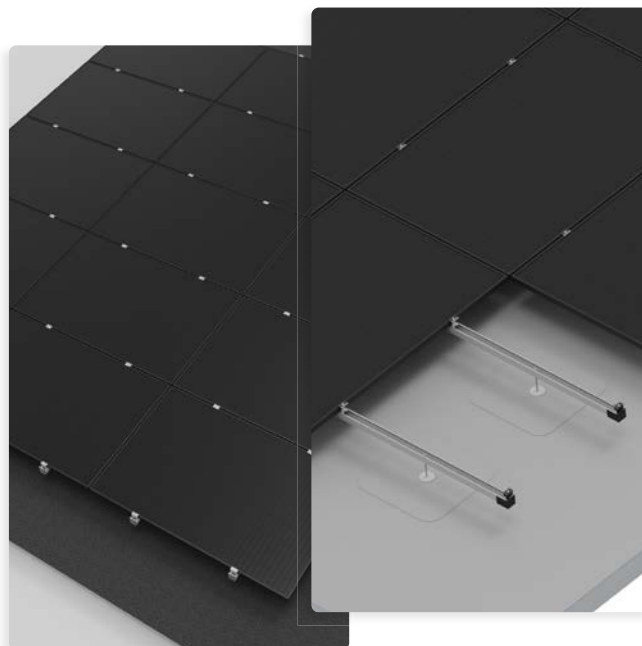


Bitumen & foil pitched roof

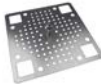


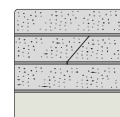
+ Clamping system with direct fastening

- Compatible with a wide range of anchor products
- Can be planned in Solar-Planit with individual anchor products
- Easy installation from above with large components
- Centric load distribution into the anchor
- Quick and material-saving installation thanks to single-layer construction
- Positioning of the rails in the optimum clamping area of the modules
- Stable C-rail as module support rail
- Large spans possible
- Rail also serves as a cable channel

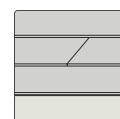


Requirements & Features	
Application	Pitched roof
Roof pitch	0 – 60°
Roof covering	Bitumen, membrane (PVC, TPO, FPO)
Roof attachment	Anchors (solution provided by customer)
Height compensation	Depending on the anchor
Module orientation	Vertical and horizontal
Module attachment	Clamping system
Module dimensions	Length: no restrictions Width: up to 1340 mm
Module field size	Up to 40 m (with expansion joints)
Lightning protection	Yes
Potential equalisation	Optional
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Anchor (third-party item)
Mounting rail	 C-Rail ● black & blank
Module attachment	 Clamping system ● black & blank



Bitumen



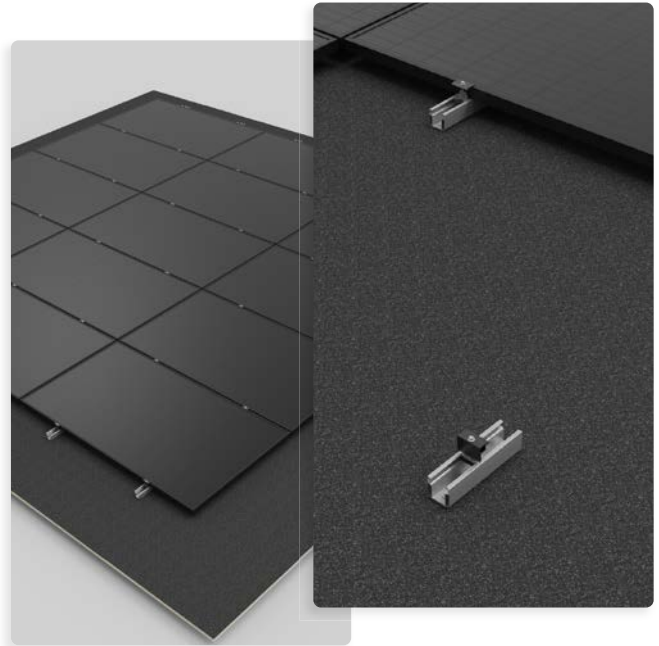
Membrane

Bitumen roof



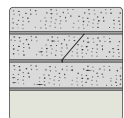
+ Clamping system with direct fastening

- Few components, completely pre-assembled
- Low material costs and extremely easy handling
- Direct fastening with building authority-approved sealing screws
- Only one assembly tool required
- Quick and efficient assembly from above
- Module clamping in the optimum clamping range
- Module can be mounted in portrait or horizontal mode



Requirements & Features	
Application	Pitched roof
Roof pitch	0 – 60°
Roof covering	Bitumen
Roof attachment	Mounting screws
Module orientation	Vertical and horizontal
Module attachment	Clamping system
Module dimensions	Length: no restrictions Width: up to 1340 mm
Distance module/ substrate	26.5 – 73.5 mm
Lightning Protection	Yes
Potential equalisation	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Mounting screws
Mounting rail	 Short rails top-fix
Module attachment	 Clamping system black & blank



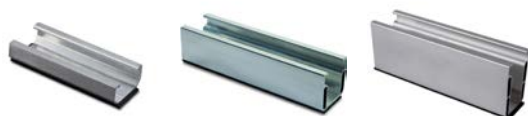
Bitumen



Single Items

Bitumen & foil pitched roof

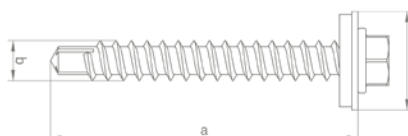
Roof attachment



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Suitable short rails for bitumen roofs: **C24, C47, C71**

You can find all variants of our short rails in the multifit chapter ➔ Seite 54



Roof boarding wood mounting screw for attachment of short rails on bitumen roofs with wood boarding. With 16 mm sealing washer, 8 AF hexagon drive.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001475	Roof boarding wood mounting screw 6.5 x 50 E16	50	6	16	A2SS



Ø
M10/M12

Locking nut AF 18 for connecting mounting system components.

Item no.	Designation	Material
03-000244	Locking nut M10 Black18	A2SS
03-000266	Locking nut M12 Black18	A2SS

Module attachment



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The clamping system – simple, stable and flexible

You can find all articles relating to our clamping system in the multifit chapter ➔ **from page 52**



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The insertion system – set, insert, done!

You can find all articles about our insertion system in the multifit chapter ➔ **from page 52**

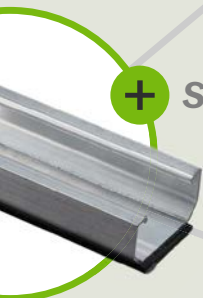
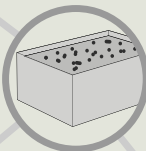
n



C-Rail +



+ Edge stop



+ Short rails



+ Middle clamp



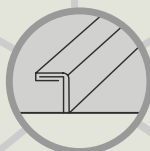
+ Mounting screws



rail connect



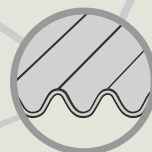
Insertion



+ Slip guard



+ Grounding connector



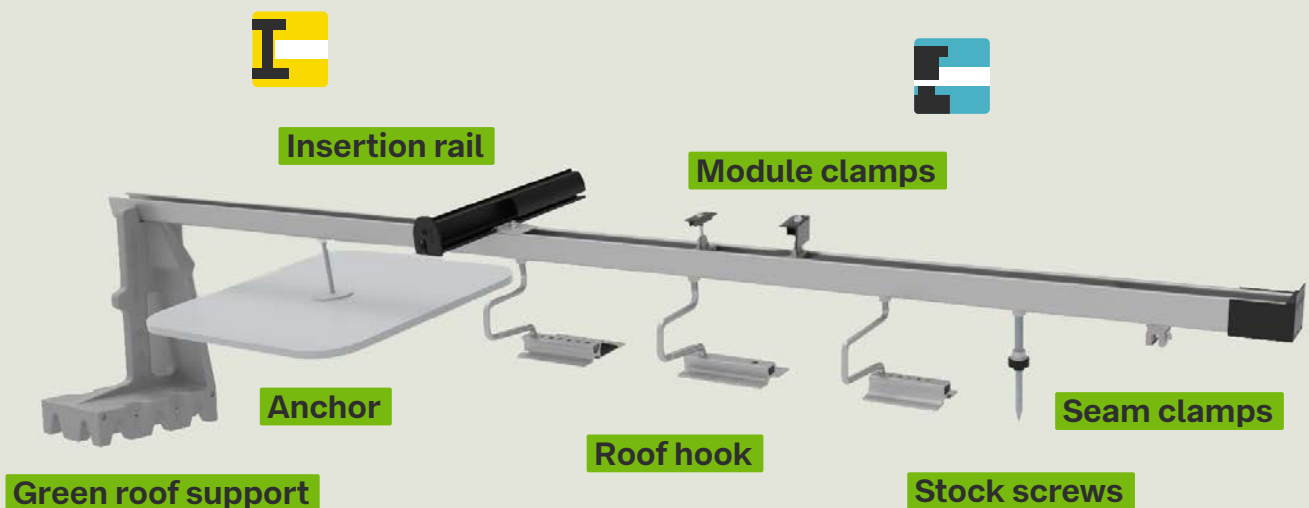
Few components, many solutions.

novotegra multift

Did you know? At novotegra, we offer a selection of components that can be used flexibly across different systems. Here are some of the key highlights of these versatile components.

Cross-system components for many roof types

Our cross-system components offer numerous advantages. They make it possible to reduce storage space and the associated storage costs. The procurement effort is minimized and leftover components can be used when installing other systems. Reusing and recycling components not only saves costs, but also reduces the production of waste. Thanks to the standardized parts, the structure of different systems is similar and therefore particularly user-friendly and easy to learn.



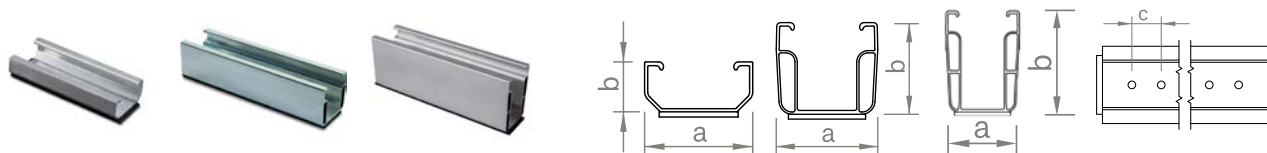
more Informationen



Single Items

novotegra multift

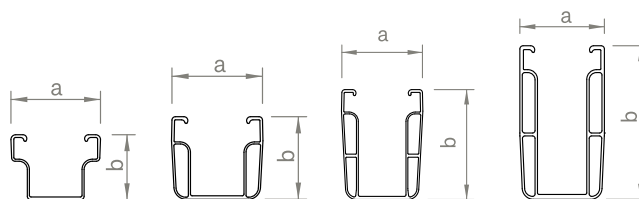
Short rails



Short rail with 5.2 mm perforation and pre-assembled sealant strip for mounting modules in landscape on trapezoidal sheet. Chipless mounting is accomplished using the trapezoidal sheet mounting screw.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000841	Short rail C24 with EPDM 125 mm	52	24	20	Alu / EPDM
03-001108	Short rail C47 with EPDM 200 mm	52	47	20	Alu / EPDM
03-001702	Short rail C71 with EPDM 200 mm	52	71	20	Alu / EPDM

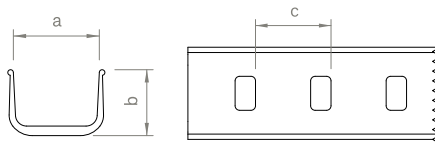
Profile rails



Mounting rail with cable channel, can be used as a module support rail for clamping systems or as a horizontal rail, available in different dimensions for various spans and loads in accordance with static requirements. Rail bottom with slots 75 x 15 mm in 100 mm grid for easy fixing from above, available in blank or black anodised variations.

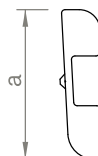
Item no.	Designation	a [mm]	b [mm]	Material
03-001659	C-rail 38-1,6 2,40 m	52	38	Alu
03-001661	C-rail 38-1,6 5,90 m	52	38	Alu
03-001441	C-rail 47-2 2,40 m	52	47	Alu
03-001774	C-rail 47-2 3,60 m	52	47	Alu
03-001664	C-rail 47-2 4,80 m	52	47	Alu
03-001666	C-rail 47-2 5,90 m	52	47	Alu
03-001668	C-rail 71-2 5,90 m	52	71	Alu
03-001669	C-rail 95-3 5,90 m	52	95	Alu
03-001660	C-rail 38-1,6 2,40 m black	52	38	Anodised aluminium
03-001662	C-rail 38-1,6 5,90 m black	52	38	Anodised aluminium
03-001663	C-rail 47-2 2,40 m black	52	47	Anodised aluminium
03-001667	C-raile 47-2 5,90m black	52	47	Anodised aluminium

Rail connectors & expansion joints



Connector C-rail, with two round-head screws and locking nuts with 18 AF hexagon drive, optionally available as a expansion joint version with four round-head screws. (The image shows C47 expansion joints and connector set)

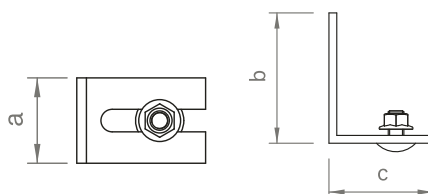
Item no.	Designation	a [mm]	b [mm]	c [mm]	Lenth in mm	Material
03-001105	Rail connector set C38	35	28,5	50	325	Alu/A2SS
03-001106	Expansion joint set C38	35	28,5	50	325	Alu/A2SS
03-000001	Rail connector set C47	52	40	50	325	Alu/A2SS
03-000138	Expansion joint set C47	52	40	50	325	Alu/A2SS
03-000151	Rail connector set C71	52	67	50	490	Alu/A2SS
03-000265	Expansion joint set C71	52	67	50	490	Alu/A2SS
03-000130	Rail connector set C95	52	70	50	500	Alu/A2SS
03-000173	Expansion joint set C95	52	70	50	500	Alu/A2SS



Connector C-rail 47, screw connection with four hexagon drive screws 8 mm.

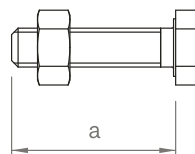
Item no.	Designation	a [mm]	Length in mm	Material
03-000925	Rail connector set C47 S	30	200	Alu/A2SS

Protection



Slip guard can be used to secure the modules during horizontal mounting or as an end cap for the C-rail, available in either blank or black.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000259	Slip guard / End cap set C47	53	80	80	Alu/A2SS
03-000261	Slip guard / End cap set C71	53	100	80	Alu/A2SS
03-000263	Slip guard / End cap set C95	53	130	80	Alu/A2SS
03-000260	Slip guard / End cap set C47 black	53	80	80	Alu/A2SS
03-000262	Slip guard / End cap set C71 black	53	100	80	Alu/A2SS
03-000264	Slip guard / End cap set C95 black	53	130	80	Alu/A2SS



Slip guard for fixing modules with and without mounting holes for mounting modules in portrait.

Item no.	Designation	a [mm]	Material
03-000006	Module Slip guard set M6	25	A2SS
03-000007	Module Slip guard set M8	25	A2SS

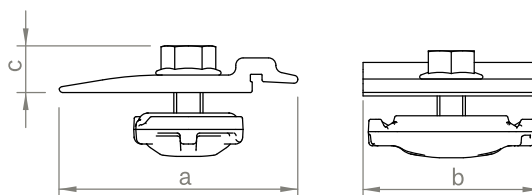
End caps



Black end cap for C-rail, UV and weather resistant.

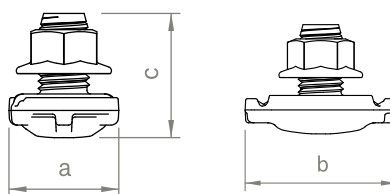
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001523	End cap C38 black	57	54	80	PP
03-001522	End cap C47 black	57	63	80	PP

Cross connector



Connector for fixing insertion rails to C and C-N rails and mounting triangles, locking nut with 13 mm AF hexagon drive, completely pre-assembled.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000321	Cross rail connector set C IR M8	66	50	13	Alu/A2SS

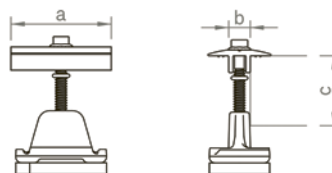


Connector for fastening C-rails to create a cross-rail assembly, M14 locking nut with 18 mm hexagon drive.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000226	Cross rail connector set C M14	30	46	34	Alu/A2SS

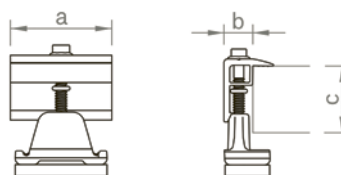


Module attachment



Middle clamp for fixing the modules on the C-rail or C-N-rail. Installation-friendly thanks to click-in mechanism. Clamping screw with 8 AF hexagon drive. For frame heights of 30– 42 mm or 43 – 52 mm, available in blank or black anodised variations.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001345	Middle clamp 30-42 Set C	52	11.4	30 – 42	Alu/A2SS/PE
03-000285	Middle clamp 43-52 Set C	52	11.4	43 – 52	Alu/A2SS/PE
03-001346	Middle clamp 30-42 Set C black	52	11.4	30 – 42	Alu/A2SS/PE
03-000286	Middle clamp 43-52 Set C black	52	11.4	43 – 52	Alu/A2SS/PE

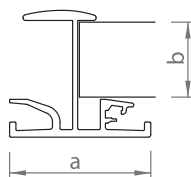


End clamp for fixing the modules on the C-rail or C-N-rail. Installation-friendly thanks to click-in mechanism. Clamping screw with 8 AF hexagon drive. For frame heights of 30 – 42 mm or 43 – 52 mm, available in blank or black anodised variations.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001236	End clamp 30-42 Set C	52	14	30 – 42	Alu/A2SS/PE
03-000287	End clamp 43-52 Set C	52	14	43 – 52	Alu/A2SS/PE
03-001237	End clamp 30-42 Set C black	52	14	30 – 42	Alu/A2SS/PE
03-000288	End clamp 43-52 Set C black	52	14	43 – 52	Alu/A2SS/PE



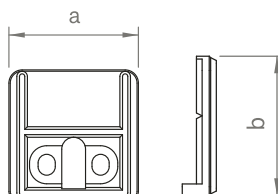
Module attachment



Insertion rail for inserting framed modules with a frame height of 30 – 50 mm, available in either blank or black anodised variations. The actual frame height of the module corresponds to the specified dimension b minus 1.3 mm.

Insertion rails for other frame heights available on request.

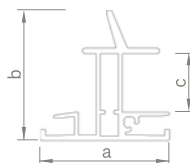
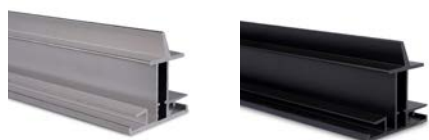
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001697	Insertion rail 30 2.40 m	56	31.3	50	Alu
03-001416	Insertion rail 30 5.40 m	56	31.3	50	Alu
03-001695	Insertion rail 35 2.40 m	56	33.3	52	Alu
03-001379	Insertion rail 35 5.40 m	56	36.3	55	Alu
03-001698	Insertion rail 30 2.40 m black	56	31.3	50	Alu
03-001417	Insertion rail 30 5.40 m black	56	31.3	50	Alu
03-001696	Insertion rail 35 2.40 m black	56	36.3	55	Alu
03-001380	Insertion rail 35 5.40 m black	56	36.3	55	Alu



Edge stop for insertion rails, fixing with tapping screw Torx drive 30, available in either blank or black anodised.

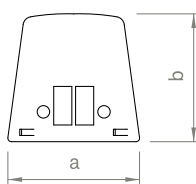
Item no.	Designation	a [mm]	b [mm]	Material
03-000691	Edge stop set IR	49	49	Alu/A2SS
03-000693	Edge stop set IR black	49	49	Alu/A2SS

Module attachment



Insertion rail snow guard for inserting framed modules with a frame height of 30 mm, 35 mm or 40 mm for high snow loads with integrated snow guard. Dimension c indicates the frame height of the module; the respective insertion rail has an additional 1.3 mm of space to insert the module.

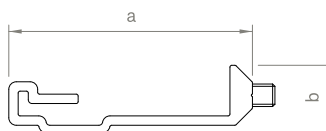
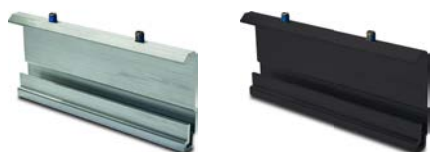
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001617	Insertion rail 30 5.40 m	69	69	31.3	Alu
03-001618	Insertion rail 35 5.40 m	69	74	36.3	Alu
03-001619	Insertion rail 40 5.40 m	69	79	41.3	Alu
03-001620	Insertion rail 30 5.40 m black	69	69	31.3	Alu
03-001621	Insertion rail snow guard 35 5.40 m black	69	74	36.3	Alu
03-001622	Insertion rail snow guard 40 5.40 m black	69	79	41.3	Alu



Edge stop for insertion rails snow stop, fixing with tapping screw Torx 30 drive, optionally available blank or black anodised.

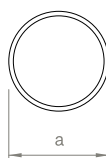
Item no.	Designation	a [mm]	b [mm]	Material
03-000732	Edge stop set IR snow guard	75	75	Alu/A2SS
03-001623	Edge stop set IR snow guard black	75	75	Alu/A2SS

Rail connectors



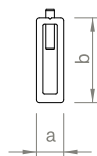
Connector insertion rail for framed modules, l = 150 mm, available in blank or black anodised variations.

Item no.	Designation	a [mm]	b [mm]	Material
03-000648	Rail connector set IR	65	18	Alu/A2SS
03-000499	Rail connector set IR black	65	18	Alu/A2SS



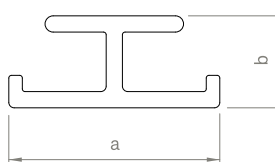
Connector insertion rail for framed modules, l = 100 mm, for direct mounting on trapezoidal sheet metal.

Item no.	Designation	a [mm]	Material
03-000647	Rail connector IR 5 x 100 A2SS	5	Alu/A2SS



Connector insertion rail snow guard for framed modules, l = 200 mm.

Item no.	Designation	a [mm]	b [mm]	Material
03-000471	Rail connector set IR snow guard	10	30	Alu



Support rail to brace modules between the insertion rails of a module row in case of heavy snow loads.

Item no.	Designation	a [mm]	b [mm]	Material
03-001442	Support rail IR 5.40 m	39	17	Alu

Accessories and optional items



Image	Item-No.	Item	Material	Description
1	03-000329	Mounting Set C-Rail M8	Alu/V2A	Connector set for fixing parts as optimizers to the C-rail, C-N-rail or short rail.
2	03-000373	Plate 50 x 50 x 3 D8,5 Al	Alu	
3	03-001185	Contact latch module clamp	V2A	Contact latch for equipotential bonding / lightning current carrying capacity between module frame and mounting system. Suitable for all middle clamps C-rail and flat roof II and III.
4	03-000012	Grounding connector C-rail	V2A	Earthing connector for connecting the C-rail or base trough to the lightning protection system. For clamping 6–16 mm ² earthing wire or 6–10 mm diameter round wire.
5	03-001529	Grounding connector C-rail (new)	V2A	Earthing connector for integrating the C-rail into the lightning protection system. For clamping 6–16 mm ² earthing wire or 6–10 mm diameter round wire.
6	03-000631	EPDM-T protection IR	EPDM	EPDM T-piece for securing modules in insertion rails with a low module inclination (< 10°), for framed or frameless modules. Can be used as theft protection. 84 x 17 mm.
7	03-001768	Contact plate insertion rail	V2A	Contact latch for potential bonding. Suitable for all insertion rails.

Flat roof systems

Overview

System	"the shortcut" System III ^[3]	"long side clamping" System III ^[3]	"the allrounder" System II ^[2]	"the rock" System I ^[1]
Roof attachment	 Base and connector rails	 Base and connector rails	 Base and connector rails	 Base and connector rails
Module supports	 module supports 10°	 module supports 10° long side	 module supports 13°	 module supports 13°
Module attachment	 Middle & end clamps ● black & blank	 module clamps ● black & blank	 module clamps	 module clamps

System	"the shortcut"	"long side clamping"	"the allrounder"	"the rock"
	System III ^[3]	System III ^[3]	System II ^[2]	System I ^[1]
Flexibility	+	+	+	+
Support pressure	+	+	+	+
Installation speed	+	+	+	+
Logistics	+	+	+	+
High wind and snow loads	+	+	+	+
Large modules	+	+	+	+
Bitumen/slide/concrete	+	+	+	+
Gravel	+	+	+	+
Module inclination	10°	10°	13°	13°
Max. module field length	40 m	40 m	34 m	34 m
Roof inclination	0–5°	0–5°	0–5°	0–5°

 excellent
  very good
  good



Installed here:

Flat roof system III East/West

Speed redefined.

Flat roof system III

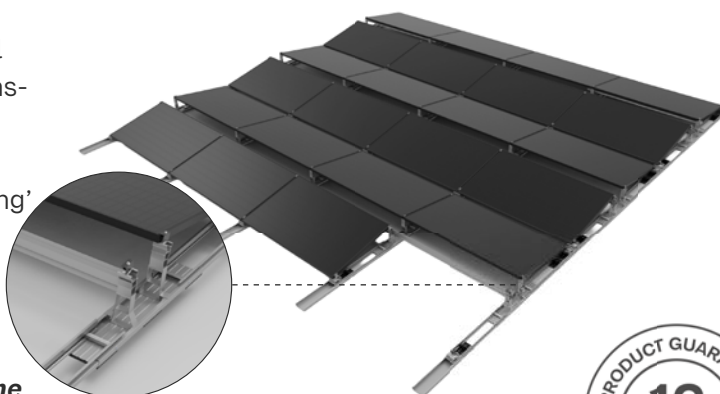


When time pressure meets roof reality

Our Flat Roof System III makes installation even easier and faster thanks to its high degree of pre-fabrication and tool-free click system. The short components are easy to handle and require minimal logistics, as they take up little space and can be transported even in small vehicles.

Modular design: Our Flat Roof III 'long side clamping' system is ideal for large modules and high wind and snow loads. Only the supports and clamps change.

Flat Roof III is the epitome of efficiency: quick installation, easy handling, strong performance. The 'shortcut' that really saves installers time.



+ Clamping system

- Clamping on the short or long side of the frame
- Optionally with contact latch



+ Module supports

- Can be clicked into the base element without tools
- With integrated holder for cable channel and FR optimiser mounting set
- 10° elevation



+ Base element/ Connector set

- Completely pre-assembled
- Can be installed without tools
- No calibration necessary



more information





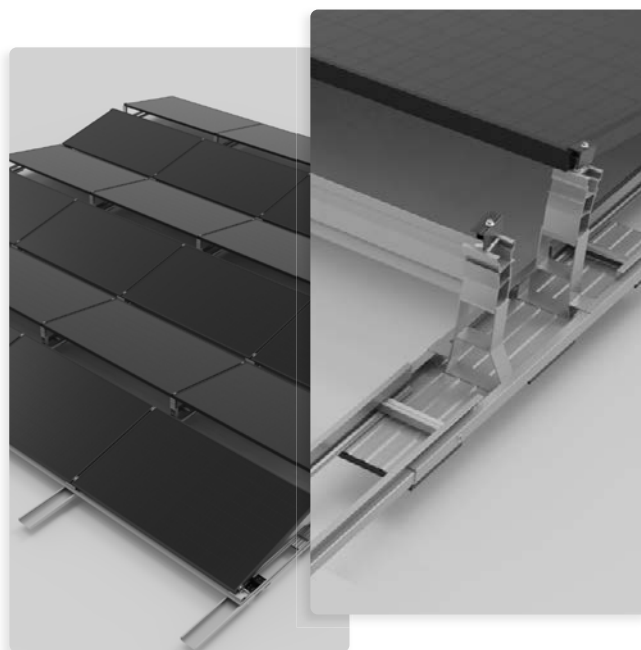
Flat roof system III

the shortcut



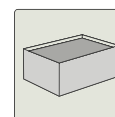
+ Our system for super easy and quick installation

- Simple and quick installation thanks to a high degree of prefabrication and a tool-free click system
- Low logistical effort and optimal handling thanks to short components
- Use of our proven module clamps
- Cross connections at the edge of the module field for high stability
- Clamping on the short side of the frame
- Wind tunnel-tested aerodynamics

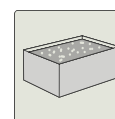


Requirements & Features	
Application	Flat roof
Building height	Without restriction
Roof pitch	0 – 5°
Roof covering	PVC, TPO, FPO, bitumen
Roof attachment	Ballast, anchors
Module orientation	East/west, south
Module attachment	Clamping system
Module dimensions	Length: up to 2280 mm
Module pitch	10° (nominal)
Module field size	Length: up to 40 m Width: up to 21 m
Row spacing	2230 – 2483 mm (depending on module width)
Distance roof edge	500 mm
Lightning protection	Yes
Potential bonding	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Base and connector rails
Module supports	 Module supports 10°
Module attachment	 Middle & end clamps ● black & blank



Flat roof



Gravel roof

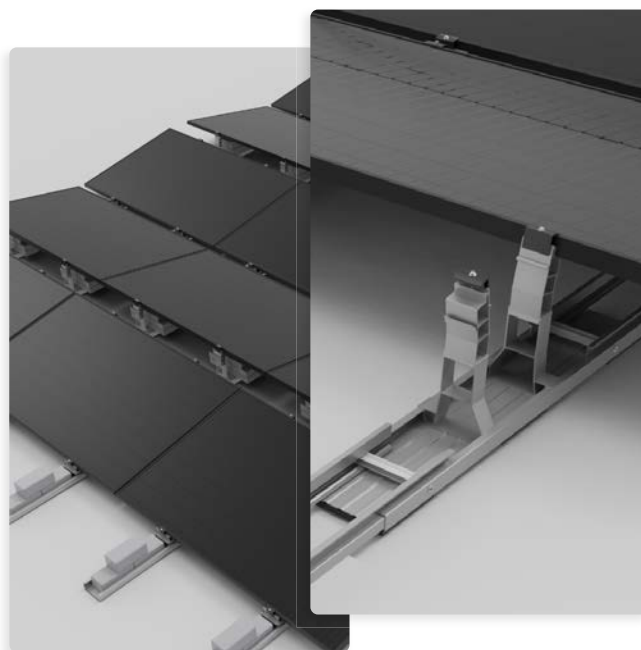
Flat roof system III

long side clamping



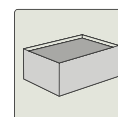
+ Clamping on the long side of the module frame for maximum loads

- Clamping of the module in the optimum area of the long frame side for high wind and snow loads, especially for large modules
- Low logistical effort and optimum handling thanks to short components
- Simple and quick installation thanks to a high degree of prefabrication and a tool-free click system
- Wind tunnel-tested aerodynamics
- Cross connections for high stability
- Large modules with a length of up to 2.6 m can be used

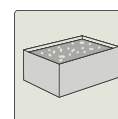


Requirements & Features	
Application	Flat roof
Building height	Without restriction
Roof pitch	0 – 5°
Roof covering	PVC, TPO, FPO, bitumen
Roof attachment	Ballast, anchors
Module orientation	East/west, south
Module attachment	Clamping system
Module dimensions	Length: up to 2600 mm
Module pitch	10° (nominal)
Module field size	Length: up to 40 m Width: up to 21 m
Row spacing	2230 – 2483 mm (depending on module width)
Distance roof edge	500 mm
Lightning protection	Yes
Potential bonding	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Base and connector rails
Module supports	 Module supports 10° long side
Module attachment	 Module clamps ● black & blank



Flat roof

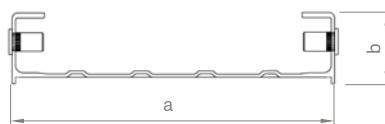


Gravel roof

Single Items

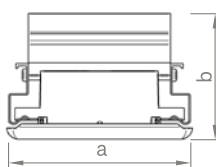
Flat roof system III

Roof attachment



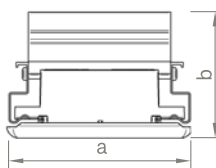
Base element for Flat roof system III East-West for clicking in the module supports and connecting the connector and edge closure sets. Compatible with module widths of 995–1070 mm and module widths of 1071–1145 mm.

Item no.	Designation	a [mm]	b [mm]	Material
03-001536	Base element e/w 690 mm	150	40	Alu/A2SS/PE
03-001537	Base element e/w 840 mm	150	40	Alu/A2SS/PE



East-west connector set for Flat roof system III with integrated base feet as front module support in the centre of the system.

Item no.	Designation	a [mm]	b [mm]	Material
03-001533	Connector set e/w 1940 mm	147	101	Alu/A2SS/PP



Edge closure set for Flat roof system III with integrated base foot as front module support at installation edges.

Item no.	Designation	a [mm]	b [mm]	Material
03-001532	Edge closure set 970 mm	147	101	Alu/A2SS/PP

Module supports



Rear module support for Flat roof system III, to click into the base element and connect the cross bar or cable channel module support.

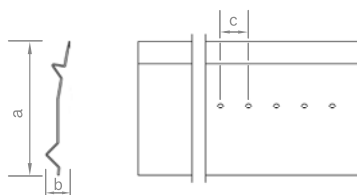
Item no.	Designation	a [mm]	b [mm]	Material
03-001857	Module support 10°	270	60	Alu



Module support for Flat roof system III „long side clamping“ to click into the base element and connect the cable channel module support.

Item no.	Designation	a [mm]	b [mm]	Material
03-001858	Module support 10° long side clamping	289	60	Alu

Load transfer

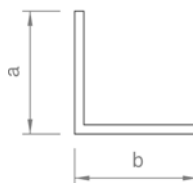


Cross bars for load redistribution, connected to the module supports of the Flat roof system III.

Item no.	Designation	a [mm]	b [mm]	Material
03-001649	Cross bar 2.00 m	120	25	Alu
03-001679	Cross bar 2.40 m	120	25	Alu

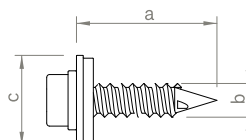


Load transfer



Support brace for load transfer, fixed on the edge closure sets or connector sets for Flat roof III.

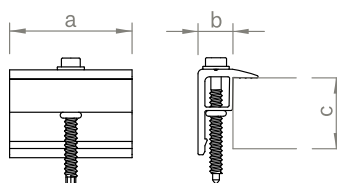
Item no.	Designation	a [mm]	b [mm]	Material
03-001680	Support brace 20x20x1.5 2.00 m	20	20	Alu
03-001530	Support brace 20x20x1.5 2.40m	20	20	Alu



Self-drilling screw or thin sheet screw with 8 AF hexagon drive for connecting flat roof components.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000383	Flat roof mounting screw cl 5.5	25	5.5	16	A2SS

Module attachment



End clamp for Flat roof system generation II and III, for fixing modules on the long side of the frame for example in the case of a third base trough. Clamping screw with 8 AF hexagon drive, for frame heights of 28 – 33 mm, 34 – 42 mm or 43 – 52 mm, completely pre-assembled.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000396	Flat roof end clamp 30–42	52	14	30–42	Alu/A2SS
03-001802	Module clamp „long side clamping“ with contact plate, black	52	14	30–42	Alu/A2SS



multift
p. 54

The clamping system– simple, stable and flexible

You can find all articles relating to our clamping system in the multift chapter. ➔ from page 52

Accessories and optional items

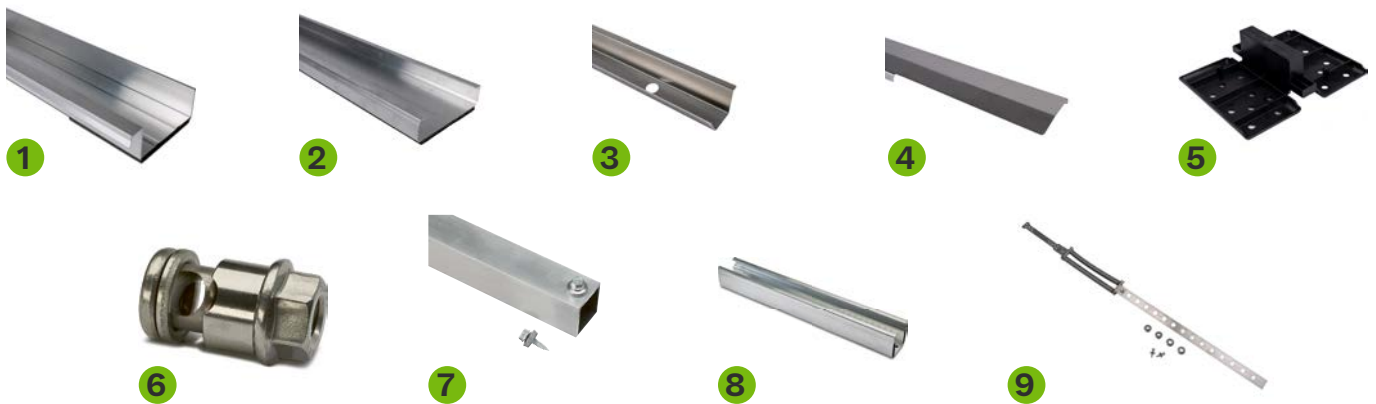


Image	Item-No.	Item	Material	Description
1	03-001681	Ballast trough 530mm	Alu / PE	Ballast trough for Flat roof system III to clip into the connector or edge sets and for the secure placement of large-format ballast.
2	03-001541	Ballast cantilever 650mm	Alu / PE	Ballast cantilever for Flat roof system III to redistribute ballast at the installation edges. Usable length 500mm and 1000mm.
2	03-001542	Ballast cantilever 1150mm	Alu / PE	
3	03-001569	Cable channel base element 1250mm	Alu	Cable channel for Flat roof system III to be connected to the base elements and to lay the cables in the lengthwise direction or to be connected to the module supports and to lay the cables in the crosswise direction.
3	03-001544	Cable channel module support 2.00m	Alu	
3	03-001686	Cable channel module support 2.40m	Alu	
4	03-001591	Cover cable channel 1250mm	Alu	Cover for cable channels of the Flat roof system III to protect the cables from UV radiation and the weather conditions.
5	03-001632	Surface extension 180x150mm	PP	Surface extension for Flat roof system III to increase the load surface.
6	03-000012	Grounding connector C-rail	A2SS	Grounding connector set sufficient for clamping cables of 6-16 mm ² or wire with diameter 6-10mm.
7	03-000337	Mounting-set optimizer FR	Alu / A2SS	For mounting a module optimiser to the Flat roof supports (Flat roof II & III).
8	03-000929	Coupling profile C47 385 mm	Alu	Coupling profile for reducing the ballast of adjacent module fields with expansion gaps in between on flat roof elevations through coupling of the bordering base troughs
9	03-001807	Position securing set	Alu/V2A	Position securing set for mounting on site anchors with M10 or M12 thread. For flat roof II and III.



Installed here:

Flat roof system II East/West

Every row counts. Every inch matters.

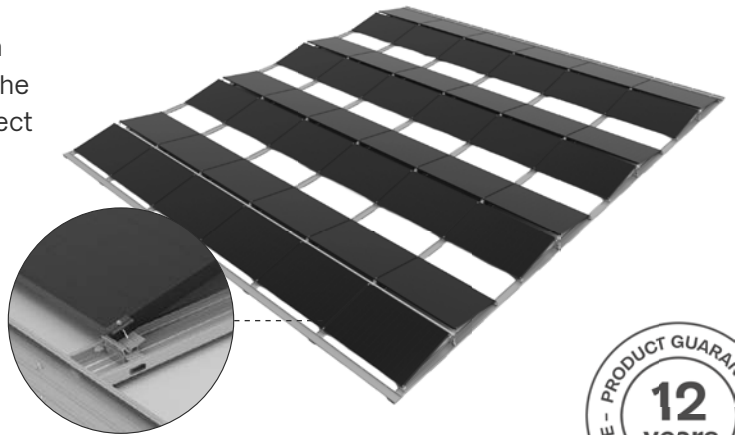
Flat roof system II



As unique as your roof: Flat Roof II from novotegra.

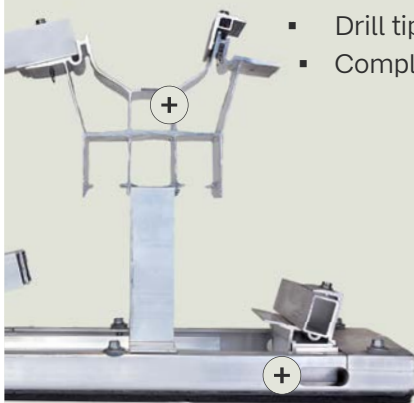
Safe, stable and suitable for many roof types – that's our Flat Roof System II. Available for east-west or south-facing PV systems, our 'all-rounder' offers an optimal mounting angle of 13° for good efficiency. The optimised aerodynamics require little ballast – perfect for your flat roof project.

How to get the most out of every flat roof – technically, economically and creatively.



+ Module clamp

- Drill tip for easy installation
- Completely pre-assembled



+ Base trough/connector set

- Plenty of space for ballast, optional ballast trays available
- Can be installed without tools
- Can be used as a cable channel with optional cover

+ Module supports

- Quick click-in to the base trough without additional screws
- With drill hole for precise module positioning
- Designed as a double-sided support for high loads
- 13° elevation



more information





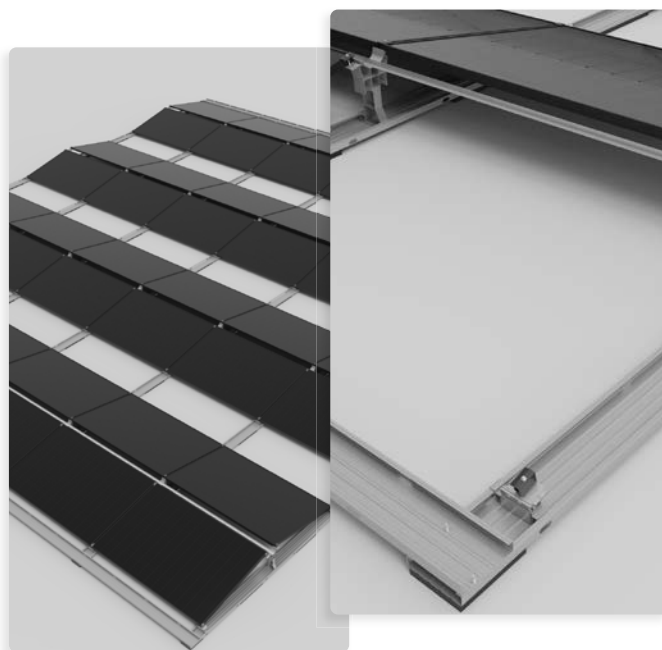
Flat roof system II

the allrounder



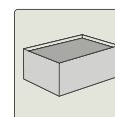
+ Our flexible solution with optimal load redistribution

- High flexibility thanks to individually selectable row spacing
- Wide, continuous base troughs for optimum load distribution and low surface pressure
- Possible with a third base trough for high wind and snow loads
- Module supports and base feet click into place, no screws required
- Wind tunnel-tested aerodynamics

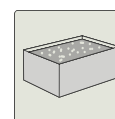


Requirements & Features	
Application	Flat roof
Building height	Without restriction
Roof pitch	0 – 5°
Roof covering	PVC, TPO, FPO, bitumen
Roof attachment	Ballast, anchors
Module orientation	East/west, south
Module attachment	Clamping system
Module dimensions	Length: up to 2280 mm
Module pitch	13° (nominal)
Module field size	Length: up to 34 m Width: up to 17 m
Row spacing	South: 1400 – 2700 mm East/west: 2400 – 2700 mm
Distance roof edge	500 mm
Lightning protection	Yes
Potential bonding	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Base and connector rails
Module supports	 Module supports 13°
Module attachment	 Module clamp
	 Module clamp



Flat roof

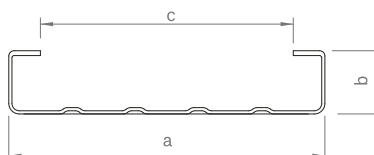


Gravel roof

Single Items

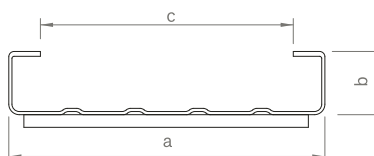
Flat roof system II

Roof attachment



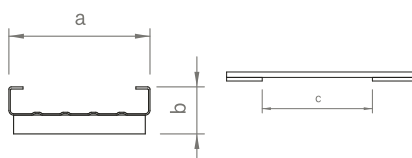
Base trough for flat roof mounting systems for clicking in the base feet and module supports (Flat roof systems II) or for fastening the base profiles (Flat roof system I) and inserting the ballast.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001407	Base trough 150-30 2.20 m	150	30	120	Alu
03-000087	Base trough 150-30 6.00 m	150	30	120	Alu



Base trough with protection layer for flat roof mounting systems for clicking in the base feet and module supports (Flat roof systems II) or for fastening the base profiles (Flat roof system I) and for inserting the ballast, continuously covered with 6 mm PE protection layer.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001408	Base trough 150-30 protection layer 6 mm 2.20 m	150	30	120	Alu/PE
03-000989	Base trough 150-30 protection layer 6 mm 6.00 m	150	30	120	Alu/PE

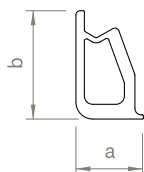


Base trough with PE pads for flat roof mounting systems for clicking in the base feet and module supports (Flat roof systems II) or for fastening the base profiles (Flat roof system I) and inserting the ballast. Covered with PE pads, grid 610 mm, as a separating or drainage layer when laid across the roof pitch.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001409	Base trough 150-30 QE 2.20 m	150	50	610	Alu/PE
03-000879	Base trough 150-30 QE 6.00 m	150	50	610	Alu/PE

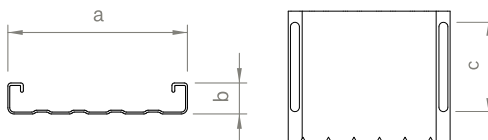


Rail connector



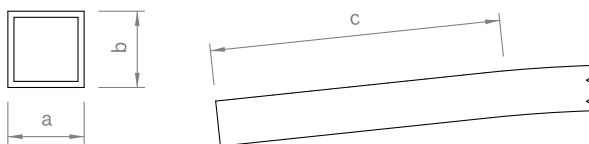
Connector for base trough 150-30, l = 380 mm.

Item no.	Designation	a [mm]	b [mm]	Material
03-000370	Base trough connector set 150-30 I	16	26	Alu



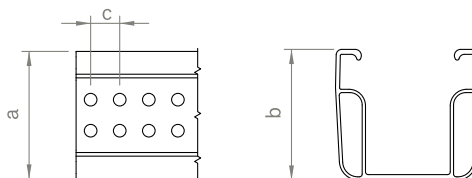
Base trough expansion joint 150-30, l = 380 mm, single-sided with slots.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000128	Base trough expansion joint 150-30	150	25	80	Alu



Connector base trough, l = 380 mm, for ridge and throat formation 2°–5°.

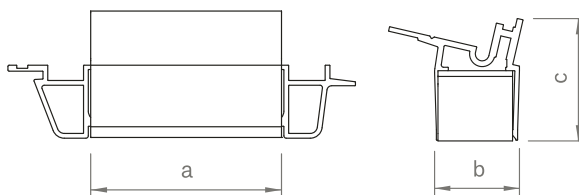
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000161	Angled base trough connector 150-30 G / K 3°	25	25	180	Alu



Coupling profile for reducing the ballast of adjacent module fields with expansion gaps in between on Flat roof elevations through coupling of the bordering base troughs (Flat roof II).

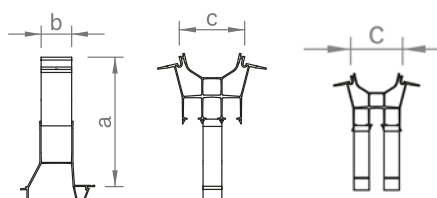
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000929	Coupling profile C47 385 mm	52	47	12	Alu

Module supports



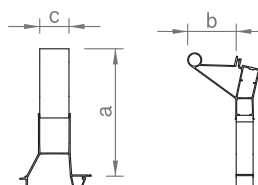
Front module support for the Flat roof system generation II, for clicking into the base trough.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000343	Base foot set 13° 150–30	80	37	53	Alu



Rear module support for the Flat roof system closed II, to click into the base trough and for the connection of the 13° wind deflector at the top.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001324	Module support set 13° 150–30 e/w single	260	104	60	Alu
03-001325	Module support set 13° 150–30 e/w double	255	60	125	Alu

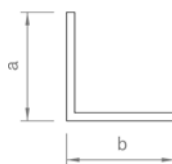


Rear module support for the Flat roof system closed II, to click into the base trough and for the connection of the 13° wind deflector at the top.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001243	Module support set 13° 150–30	260	104	60	Alu

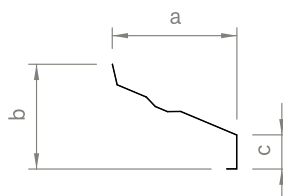
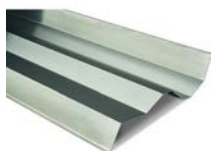


Load transfer



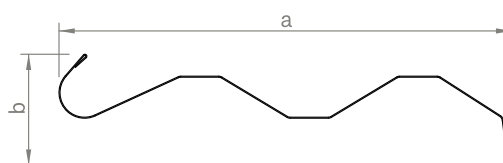
Support brace for load transfer, fixed on the Flat roof module support sets east-west II.

Item no.	Designation	a [mm]	b [mm]	Material
03-001474	Support brace 20x20x1.5 1.85 m	20	20	Alu
03-001680	Support brace 20x20x1.5 2.0 m	20	20	Alu
03-001530	Support brace 20x20x1.5 2.40 m	20	20	Alu
03-001443	Support brace 20x20x1.5 4.45 m	20	20	Alu



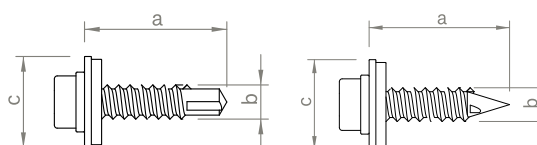
Wind deflector for the Flat roof system east-west II for mounting areas with missing modules due to obstacles.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001465	Wind deflector 13° 2.35 m East-West	241	175	65	Alu



Wind deflector of the Flat roof system closed II for wind deflection and ballast reduction.

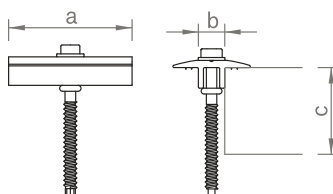
Item no.	Designation	a [mm]	b [mm]	Material
03-001281	Wind deflector 13° 1.95 m	270	70	Alu
03-001439	Wind deflector 13° 2.35 m	270	70	Alu



Self-drilling screw or thin sheet screw with 8 AF hexagon drive for connecting Flat roof components.

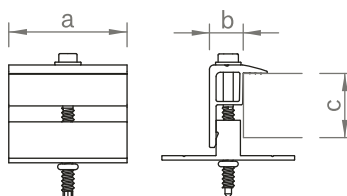
Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000132	Flat roof mounting screw	25	6	16	A2SS
03-000383	Flat roof mounting screw cl 5.5	25	5.5	16	A2SS

Module attachment



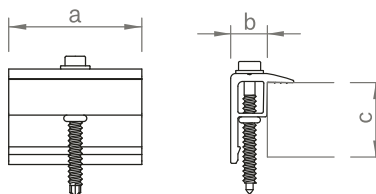
Middle clamp for Flat roof system generation II, for fixing modules to the short side of the frame. Clamping screw with 8 AF hexagon drive, completely pre-assembled.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000324	Flat roof mid clamp 30–42	52	11.4	28–42	Alu/A2SS
03-000323	Flat roof mid clamp 43–52	52	11.4	43–52	Alu/A2SS



End clamp with T-adaptor for flat roof system generation II, for fixing modules on the short side of the frame. Clamping screw with 8 AF hexagon drive completely pre-assembled.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000309	Flat roof end clamp (short side) 30–42	52	14	28–42	Alu/A2SS
03-000311	Flat roof end clamp (short side) 43–52	52	14	43–52	Alu/A2SS



End clamp for Flat roof system generation II, for fixing modules on the long side of the frame for example in the case of a third base trough. Clamping screw with 8 AF hexagon drive, for frame heights of 28 – 33 mm, 34 – 42 mm or 43 – 52 mm, completely pre-assembled.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000396	Flat roof end clamp 30–42	52	14	30–42	Alu/A2SS
03-000397	Flat roof end clamp 43–52	52	14	43–52	Alu/A2SS



Accessories and optional items



1



2



3

Image	Item-No.	Item	Material	Description
1	03-000131	Ballast trough 120–30 530mm	Alu	Ballast trough to clip into the base trough and securely place large-format ballast. Available as an unglued or pre-assembled ballast tray with separating layer or pads.
-	03-000977	Ballast trough 120–30 530mm protection layer 6mm	Alu / PE	
2	03-000910	Ballast trough 120–30 530mm cross drainage	Alu / PE	
3	03-000828	PE-Pad 140 x 390 x 20 mm	PE	For gluing to base rails 150-30 cut on site for cross drainage.

Accessories and optional items



Image	Item-No.	Item	Material	Description
1	03-000012	Grounding connector C-rail	A2SS	Grounding connector set sufficient for clamping cables of 6–16 mm ² or wire with diameter 6–10mm.
2	03-000337	Mounting-set optimizer FR	Alu/V2A	For mounting a module optimiser to the Flat roof supports (Flat roof II & III).
3	03-000407	Aluminium edge protector self-adhesive 250 x 50 mm	Alu	Aluminium edge protector, self-adhesive, to laminate base trough ends or sliced base trough connections.
4	03-001185	Contact latch module clamp	V2A	Contact latch for equipotential bonding / lightning current carrying capacity between module frame and mounting system. Suitable for all middle clamps of pitched roof and Flat roof II & III.
5	03-000924	Perforated Alu-tape 10.000 x 20 x 1 mm	Alu	For strengthening Flat roof II mounting system components for lightning current carrying capacity or for additional fixation of the ballast.
6	03-001807	Position securing set with spring	Alu/V2A	Position securing set for mounting on site anchors with M10 or M12 thread. For flat roof II and III.



Installed here:
Green roof east/west

Biotope, water reservoir, air conditioning.

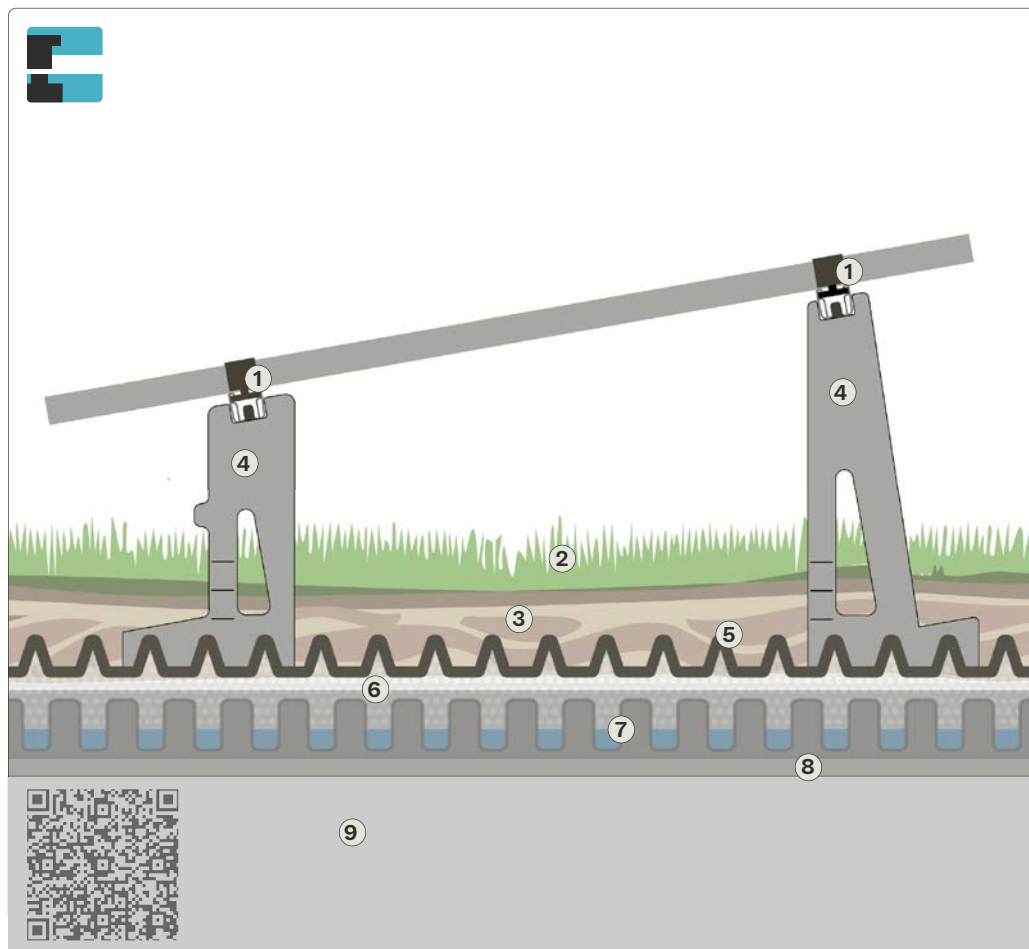
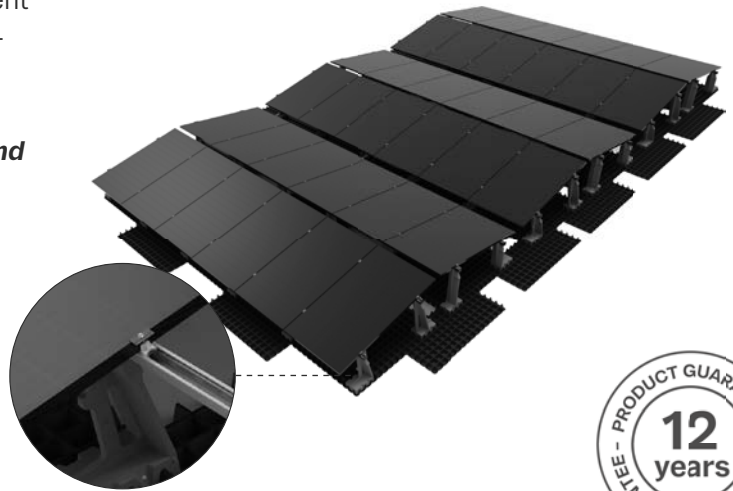
Green roof system



No measuring. No cutting. No stress!

With our green roof mounting system, you can make maximum use of the space on your flat roof: different layouts using the same components allow for east-west, butterfly and south orientations.

Imagine simply laying out the substrate mats and the PV supports almost positioning themselves in the right place. No measuring, no cutting, no preparation. With novotegra, PV installation on green roofs is child's play!



- 1 clamping system
- 2 vegetation
- 3 substrate
- 4 module supports
- 5 substrate plate
- 6 protective layer
- 7 [optional drainage]
- 8 protective layer
- 9 roof structure

more information online

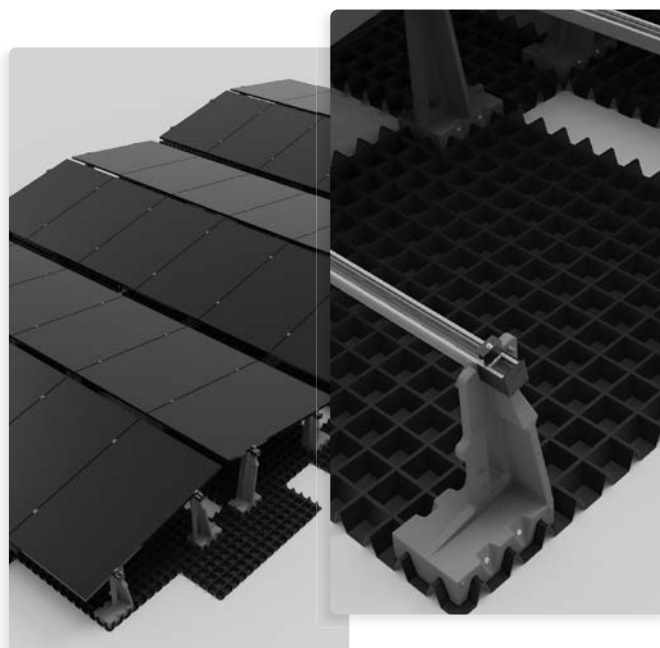
Flat roof systems

Green roof



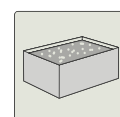
+ Single-layer clamping system with modules mounted in portrait mode

- Suitable for a wide variety of green roofs
- Retention effect: delayed water runoff, especially during heavy rainfall, relieves pressure on the sewer system
- Natural cooling of the ambient temperature and the PV system
- Sustainable production from recycled plastic made in Germany
- Efficient use of space thanks to 10° module inclination and upright mounting
- Sufficient distance from the roof surface for plant growth and snow sliding off



Requirements & Features	
Application	Flat roof
Building height	Without restriction
Roof pitch	0 – 5°
Roof covering	PVC, TPO, FPO, bitumen
Roof attachment	Ballast
Module orientation	East/west, south, butterfly
Module attachment	Clamping system
Module dimensions	Length: up to 1850 mm Width: up to 1340 mm
Module pitch	10° (nominal)
Module field size	Length: up to 40 m Width: up to 17 m
Distance module/ substrate	At the lowest point at least 460 mm (minus the substrate height)
Distance roof edge	Without parapet: 1500 mm With parapet: 500 mm
Lightning protection	Yes
Potential bonding	Optional
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Roof attachment	 Substrate plates
Module supports	 Module supports
Module attachment	 Clamping system ● black & blank

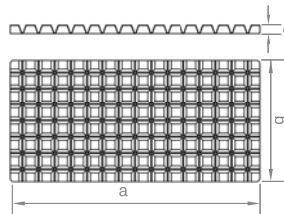
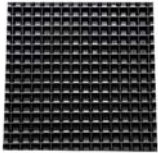


Green roof

Single Items

Green roof

Roof attachment



For the application of substrate for ballasting. Honeycomb structure in 10 cm grid for flexible positioning of supports. Made in Germany from recycled, UV-resistant plastic.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001507	Substrate plate green roof	1550	1550	52	Plastic
03-001508	Substrate plate 1/2 green roof	1550	750	52	Plastic

Compressive strength: 30 kN/m² at 10% compression, unfilled

(DIN EN ISO 25619-2) 110 kN/m² at 10% compression, filled

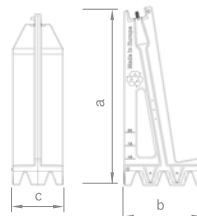
Water drainage capacity: i = 0.01 (=1% gradient): 1.5 l/(m*s)

(DIN EN ISO 12958) i = 0.02 (=2% gradient): 2.1 l/(m*s)

Filling volume: i = 0.05 (=5% gradient): 3.3 l/(m*s)

24.4 l/m² (half: 23.3 l/m²) (reference value)

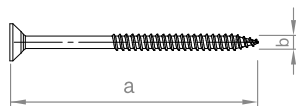
Water storage: 18.8 l/m² (half: 14.9 l/m²) unfilled (reference value)



Module support at the front or back for the green roof system. Made in Germany from recycled, UV-resistant plastic. High stability due to positive fit with the substrate plate. With practical carrying handle and substrate height indicator.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-001578	Module support high M12	674	300	200	Plastic/A2SS
03-001579	Module support low M12	495	300	200	Plastic/A2SS

Fastening



Countersunk screw with Torx 25 drive for connecting the substrate plate and module support. Four screws are required per support.

Item no.	Designation	a [mm]	b [mm]	Material
03-001493	Module support mounting screw 6x80 green roof	80	6	St. galv.



Serrated self-locking flange nut M12, AF 18 for connection of the C-rail to the module supports green roof.

Item no.	Designation	Material
03-001280	Serrated self-locking flange nut M12	A2SS

Module attachment



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The clamping system – simple, stable and flexible

You can find all articles relating to our clamping system in the multifit chapter ➔ **from page 52**



Installed here:

Insertion system



Solar power that climbs walls.

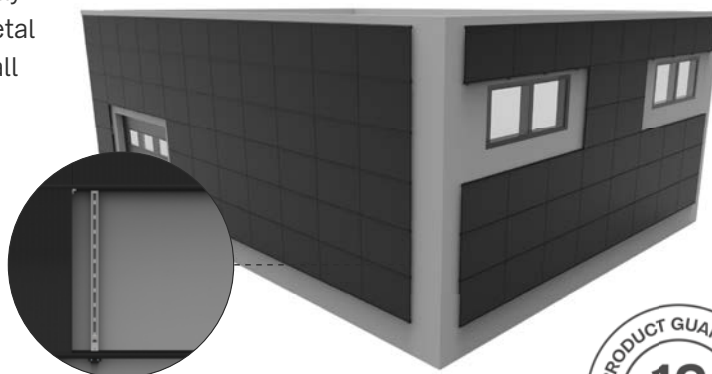
Facade systems



The safe choice for demanding facades.

Vertical PV systems on facades offer an interesting addition or alternative to roof systems. Large wall surfaces are ideal for installing solar modules, especially on industrial or commercial buildings with sheet metal cladding. novotegra offers three solutions for PV wall mounting on sheet metal and concrete facades.

Unlike many systems that only allow for one profile height, novotegra offers a choice of several short rail heights for sheet metal façades. This allows the rear ventilation of your PV modules to be specifically adapted to the requirements of the building – technically clean and efficient.



+ Fastening

- Easy attachment of the C-rail without additional components
- Can be planned with a wide range of commercially available fasteners



+ Insertion system

- High-quality appearance
- Floating, tension-free module installation
- No wind noise & low contamination from water

more information



+ Short rail

- For direct mounting on sheet metal facades
- Completely pre-assembled with EPDM and hole pattern
- Good module rear ventilation with sufficient space to the facade



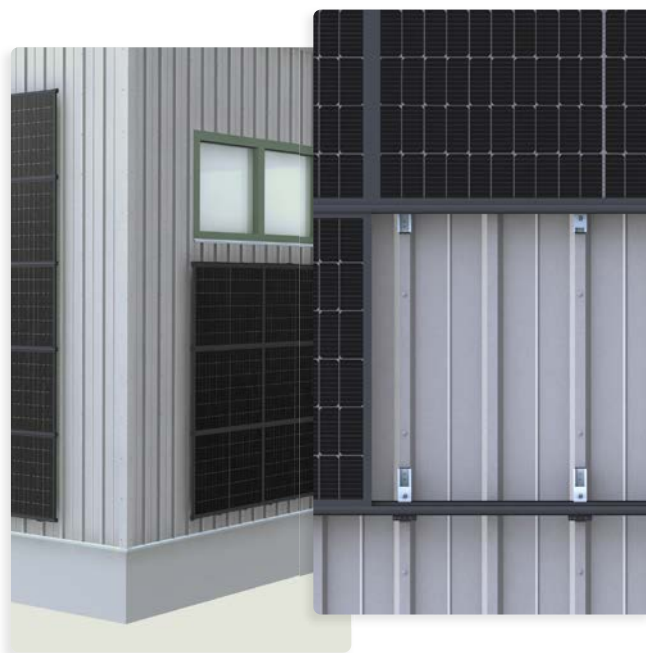
Insertion system

Sheet metal facades



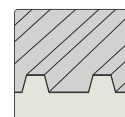
+ Our system for super easy and quick mounting

- Modules can be mounted vertically or horizontally
- Short rails available in different heights or compatible with trapezoidal brackets
- Good module rear ventilation
- High-quality system appearance and quick installation thanks to the insertion system
- Floating and tension-free module installation
- High holding forces thanks to chip-free direct fastening with building-approved thin sheet screws



Requirements & Features	
Application	Facade
System inclination	90°
Surface	Trapezoidal metal sheet aluminium/steel
Sheet thickness	Aluminium: 0.5 mm Steel: 0.4 mm
Facade attachment	Thin sheet screws
Module orientation	Vertical and horizontal
Module dimensions	Width: up to 1340 mm Length (horizontal mounting): no restrictions, Length (vertical mounting): up to 1890 mm
Distance module/ substrate	49.5 mm/73.5 mm (for short rails)
Module attachment	Insertion system
Lightning protection	Yes
Potential bonding	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Facade attachment	 Mounting screws
Mounting rail	 Trap. brackets  side-fix  Short rails  top-fix
Module attachment	 Insertion system evo



Trapezoidal metal sheet

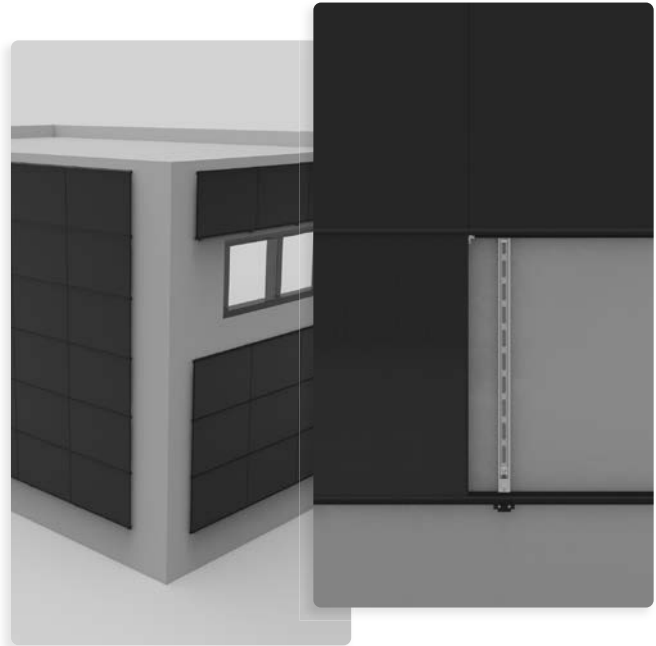
Insertion system

Brickwork facades



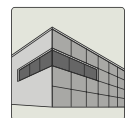
+ Fastening solution for cold facades

- Few components, completely pre-assembled
- Modules can be mounted vertically or with horizontal mounting
- Quick module installation thanks to insertion system
- High-quality appearance thanks to closed module field
- No wind noise from rattling modules
- Low contamination of modules thanks to targeted water drainage in the insertion rail
- Cover as visual finish to the module field at the top or bottom
- Can be installed on most common substrates
- Can be planned with a variety of commercially available fasteners (plastic dowels, concrete screws, etc.)
- Easy attachment of the C-rail without additional components



Requirements & Features	
Application	Facade
System inclination	90°
Surface	Brickwork (solid brick, vertically perforated brick, sand-lime brick), concrete
Facade attachment	Dowel and screw, fasteners provided by customer
Module orientation	Vertical and horizontal
Module dimensions	Width: 1340 mm Length (horizontal mounting): no restrictions Length (vertical mounting): 1890 mm
Distance module back/substrate	47 mm
Module attachment	Insertion system
Lightning protection	Yes
Potential bonding	Yes
Corrosion class	C4
Fire behaviour	A1
Warranty	12 years

System Setup	
Facade attachment	 Dowel & screws
Mounting rail	 C-Rail ● black & blank
Module attachment	 Insertion system evo



Brickwork /Concrete

Single Items

Fassaden-Systeme

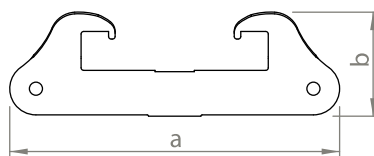
Facade mounting (sheet metal)



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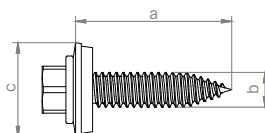
Suitable short rails for sheet metal facades: **C47, C71**

You can find all variants of our short rails in the multifit chapter → from page 52



Trapezoidal bracket with EPDM seal for fastening to trapezoidal metal sheet, with two thin sheet screws with 8 AF hexagon drive, for bead heights from 25 mm or 35 mm, for framed or frameless module insertion rails.

Item no.	Designation	a [mm]	b [mm]	Material
03-000459	Trapezoidal sheet bracket IR set 40×126 mm	126	40	A2SS



Thin sheet screw for chipless attachment of short rails on the trapezoidal sheet, with 16 mm or 11 mm sealing washer depending on the fixing variation on the raised bead, 8 AF hexagon drive.

Art.-Nr.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000880	Trapezoidal mounting screw SL 6.0 x 25 E16	25	6	16	A2SS

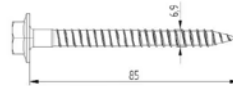
Facade mounting (brickwork)



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Suitable rails for brickwork facades: **C-Rail 47**

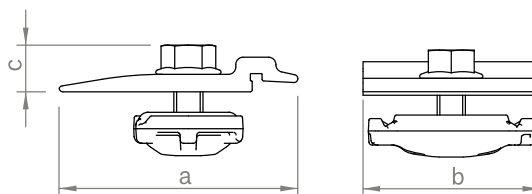
You can find all variants of our C-rail in the multifit chapter → from page 52



For mounting C-rails on the facade.

Item no.	Designation	a [mm]	b [mm]	Material
03-000832	Facade dowel 10 x 80 with screw	85	6,9	A2SS
03-000242	Washer 30x30x3 D13.0 A2			A2SS

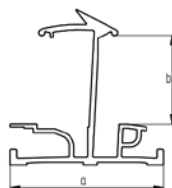
Cross connector



Connector for fixing insertion rails to C and C-N rails and mounting triangles, locking nut with 13 mm AF hexagon drive, completely pre-assembled.

Item no.	Designation	a [mm]	b [mm]	c [mm]	Material
03-000321	Cross rail connector set C IR M8	66	50	13	Alu/A2SS

Module attachment



Insertion rail for inserting framed modules with a frame height of 30–35 mm, black. With integrated drip edge.

Item no.	Designation	a [mm]	b [mm]	Material
03-001823	Insertion rail evo 30 5.40 m black	56	31,3	Alu
03-001834	Insertion rail evo 35 5.40 m black	56	36,3	Alu



Edge stop for evo insertion rail, black. Fastened with black Torx 25 sheet metal screw drive.

Item no.	Designation	a [mm]	b [mm]	Material
03-001845	Edge stop set evo			Alu/A2SS



Cover for the evo 35 insertion rail as upper or lower end cap for the rail. **Tool-free click installation.**

Item no.	Designation	a [mm]	b [mm]	Material
03-001835	Cover insertion rail evo 35 2.00 m black	41	13	Alu

Module protection



Contact latch for potential bonding. **Suitable for all insertion rails.**

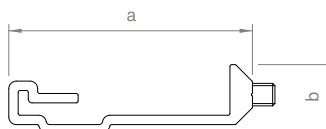
Item no.	Designation	Material
03-001768	Contact latch insertion rail	A2SS



Mute sheet for pressing the modules into the insertion rail to prevent rattling noises caused by wind. As a spacer between two modules. **Suitable for all insertion rails.**

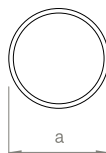
Item no.	Designation	Material
03-001815	Mute-sheet insertion rail	A2SS

Rail connectors



Connector insertion rail for framed modules, l = 150 mm, available in blank or black anodised variations.

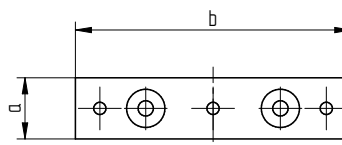
Item no.	Designation	a [mm]	b [mm]	Material
03-000499	Rail connector set IR black	65	18	Alu/A2SS



Connector insertion rail for framed modules, l = 100 mm, for direct mounting on trapezoidal sheet metal.

Item no.	Designation	a [mm]	Material
03-000647	Rail connector IR 5 x 100 A2SS	5	Alu/A2SS

Module protection



Slip guard set incl. screws to secure the insertion rail when installing with short profiles.

Item no.	Designation	a [mm]	b [mm]	Material
03-001785	Slip guard set facade black	20	90	Alu/A2SS
03-001786	Slip guard set facade	20	90	Alu/A2SS

Accessories and optional items



Image	Item-No.	Item	Material	Description
1	03-000385	Adapter plate set 96 x 20 x 3 mm	Alu/V2A	Adapter plate for lateral fixing of perforated sheets and as an edge stop for the modules. Prefabricated with a 7 mm drill hole for a countersunk head sheet screw with Torx drive 30 as well as two countersunk self-drilling screws with Torx drive 25.
2	03-000548	Perforated sheet 1500 x 120 mm 125°	St. verz.	Perforated sheet to close the gap between the facade and module, enables rear ventilation and quick access to the rear of the modules, blank.
3	03-000549	Perforated sheet 1500 x 120 mm 125° black	St. verz.	
4	03-000497	Connector set perforated sheet	Alu/V2A	Connectors for bare and black anodized perforated sheets, pre-drilled with two holes, set with two countersunk washers and countersunk head drill screws with Torx 25 drive.



Used here:

Top cover base trough

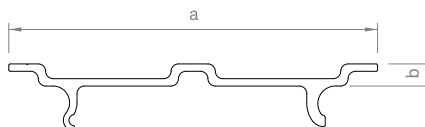
Don't want to deal with cable clutter?

Cable management for PV systems.



Cable tie/clip for securing module or string cables to a flange (rail, module, etc.). Clip opening size 1–3/3–6 mm.

Item no.	Designation	Material	System
03-000504	Cable tie black 140 mm	PP	all
03-000505	Cable tie black 200 mm	PP	all
03-000506	Cable tie black 280 mm	PP	all
03-000507	Cable tie black 360 mm	PP	all
03-000508	Cable tie clip for profile flange 1–3 mm	PP	all
03-000509	Cable tie clip for profile flange 3–6 mm	PP	all
03-000099	Cable clip d=10 mm	PA	all



C-rail

Cover to clip on to the C-rail and C-N-rail if using as cable channel, available in blank or black anodised variations.

Item no.	Designation	a [mm]	b [mm]	Material
03-000134	Top cover C-rail / C-N-rail 2,000 mm	50	3	Alu
03-001469	Top cover C-rail / C-N-rail 2,000 mm black	50	3	Alu



Flat roof

Optional components for Flat roof systems II and III.

Item no.	Designation	Material	System
03-000133	Top cover base trough 150-30 3.00 m	Alu	FR II
03-000175	Base trough cable bracket	PP	FR II
03-001569	Cable channel base element 1250 mm	Alu	FR III
03-001544	Cable channel module support 2.00 m	Alu	FR III
03-001686	Cable channel module support 2.40 m	Alu	FR III
03-001591	Cover cable channel 1250 mm	Alu	FR III



Used here:

Special nut 8 mm

Everything from a single source, **tools** for all situations.



Image	Item-No.	Item	Roof type
1	03-000036	Torque wrench 1/4", 5-25 Nm	TR, FR, Trapez, C/S, SR, MS,
1	03-000037	Torque wrench 1/2", 20 – 100 Nm	TR, FR, Trapez, C/S, SR, MS, Facade
2	03-001470	Hexagon key 3 mm	TR, Trapez, C/S, SR
3	03-000315	Torx drive TX-25 length = 70 mm	TR, Green roof, Bitumen, C/S, Facade
3	03-000104	Torx drive TX-40 length = 70 mm	TR, Trapez, Bitumen, C/S, BF, MS, Facade
3	03-000316	Torx drive TX-30 length = 70 mm	TR, Bitumen, C/S
4	03-000038	Drive extension 305 mm	TR, Trapez, Bitumen, C/S, SR, MS, Facade
5	03-000100	Special nut socket 8 mm	TR, FR, Trapez, Bitumen, C/S, SR, MS, Facade
5	03-001471	Special nut socket 13 mm	TR, FR III, Trapez, Bitumen, C/S, SR, Facade
6	03-000011	Special long nut socket 18 mm	TR, FR, Trapez, Bitumen, C/S, SR
7	03-000966	Threaded socket driver f. stock screw 6-kt M10	C/S
7	03-000930	Threaded socket driver f. stock screw 6-kt M12	C/S
8	03-000602	Nut adapter 1/4" 6kt – 1/2" 4kt	TR, FR, Trapez, C/S, SR
9	03-000114	Drill bit 6.8mm length 230mm	C/S
9	03-000115	Drill bit 7.0mm length 230mm	C/S
9	03-000116	Drill bit 7.2mm length 230mm	C/S
9	03-000117	Drill bit 7.4mm length 230mm	C/S
9	03-000245	Drill bit 7.5mm length 225mm	C/S
9	03-000108	Drill bit 9.0mm length 230mm	C/S
9	03-000246	Drill bit 14mm HSS short	C/S
9	03-000107	Drill bit 16mm HSS short	C/S
10	03-001745	Assembling jig 950–1500mm bar type	TR, FR, Trapez, C/S, SR, Facade
10	03-001746	Assembling jig 1450–2300 mm bar type	TR, FR, Trapez, C/S, SR, Facade
11	03-000462	Mounting tool trapezoidal sheet bracket IS	Trapez
-	03-000463	Mounting tool trapezoidal sheet bracket elevation profile pair	Trapez
12	03-001323	Removal tool roof hook ZD 30 N35	TR
13	03-000362	GS 150 - 30 installation/removal tool	FR
	03-001863	Installation/removal tool FD III	FD III
14	03-001675	Diamond joint cutter 125 mm	TR

TR = Tiled roof, FR = Flat roof, Trapez = Trapezoidal metal roof, C/S = Corrugated & sandwichroof, SR = Seamed metal roof, MS = Metal tile roof



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