

SCHLETTER
AN ENSTAL COMPANY

PRODUCT CATALOG

ROOFTOP 2025/2



EN

LEGAL INFORMATION

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WE SUPPORT SOLAR.

AT SCHLETTER, WE BELIEVE
EVERY COMPANY, LARGE OR SMALL,
CAN ONLY BENEFIT FROM OUR
PASSIONATE SUPPORT.

And if there were ever an industry worth supporting, it's solar.
It's why we take the success of every solar company to heart—including
yours. We want to support your long-term success through solar projects
and the products and services we've developed to elevate them.
Together, we can help to change lives and the planet for the better.

If you don't deserve our support, who does?

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PRODUCT CATALOG



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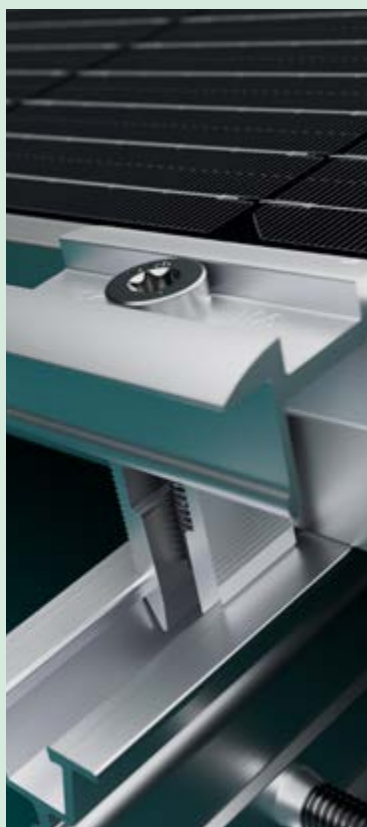
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SCHLETTER NA INC.

SCHLETTER WORLDWIDE.

Installing a solar system requires more than just a metal clamp—you need to plan meticulously, and adapt to the specific conditions and parameters of your project. This begins with the very first structural assessment, and ends with tightening the very last screw.

We're here to guide and support you from day one for however long it takes. With uncompromising quality standards, we ensure your project reaches its full potential with our first-class products and services. This approach is a core part of our DNA.

No matter how comprehensive and long-term your vision or ambitious and imaginative your goals, when it comes to supporting solar, we're always by your side.



**SCHLETTER
UK LTD.**

SCHLETTER INTERNATIONAL B.V.
HEADQUARTERS

SCHLETTER SOLAR GMBH
R&D HEADQUARTERS

**SCHLETTER
LOGISTIC CENTRE
NORTH**

**SCHLETTER SHANGHAI
SOLAR TECHNOLOGY CO. LTD.**

SCHLETTER ENERJI VE METAL
PRODUCTION, TÜRKİYE

**SCHLETTER
ESPAÑA S.L.**

**YOKOHAMA SOLAR
SOLUTIONS CO. LTD.**

SCHLETTER KOREA LTD.

**SCHLETTER
AUSTRALIA PTY. LTD.**

**SCHLETTER
SOUTH AFRICA PTY. LTD.**

1968

FOUNDED IN BAVARIA,
GERMANY

> 60 GWp

SYSTEMS INSTALLED
WORLDWIDE

> 580

SOLAR MOUNTING PRODUCTS
AND COMPONENTS

> 105

REGISTERED PATENTS
WORLDWIDE

> 110

COUNTRIES WITH
SCHLETTER SYSTEMS
INSTALLED

> 700

EMPLOYEES WORLDWIDE

WE WANT THE WORLD TO BE BETTER WITH SCHLETTER.

We've always believed that companies should do more than just sell products. They should stand up for their decisions and actions, and take seriously their corporate, social, and environmental responsibilities.

We're proud to finally tell our Corporate Social Responsibility (CSR) story to date in a way that reflects who we really are—not just as a leading manufacturer of solar mounting systems, but as a global, diverse team of purposeful people committed to a fairer, cleaner, and more sustainable world.

Scan the QR code below to download your own copy and see exactly what we have done, are doing, and will do for people and planet alike.



**> 31,4 MILLION
TONNES OF CO₂
PER YEAR**

SAVED THROUGH PV INSTALLATIONS
USING OUR MOUNTING SYSTEMS.

Conversion formula source:
Federal Environment Agency and Solarcluster BW



BRONZE | Top 35%

ecovadis

Sustainability Rating

JUN 2024



QUALITY WITHOUT COMPROMISE.

SCHLETTER PRODUCTS CAN WITHSTAND ALL WEATHER CONDITIONS.

Over the past few decades, we've been committed to improving the durability, safety, sustainability, and overall quality of our solar mounting systems.

Our quality control is rigorous, uncompromising, and conscientious down to the last detail. We use only the highest quality steel and aluminum.

Whether it's gale-force winds, monsoon-like rains, immense snow loads, sandstorms, hail, or even earthquakes, our structures are specifically designed to withstand the harshest conditions in all terrains—for 25 years or more.





SCHLETTER



HOW WE SUPPORT YOU.

WHEN WE SAY WE SUPPORT SOLAR,
WE MEAN IT.

That's why we offer solar installers a comprehensive range of services to minimize design errors and install our rooftop mounting systems perfectly every time.

YOU ASK, WE ANSWER

Here, you'll find answers to frequently asked questions about installing Schletter systems, product compatibility, and many other topics. Still have a question? Contact us directly—we'll be happy to help.

TRAINING & WEBINARS

We offer free, expert-led webinars and in-person training to keep you up-to-date with industry trends and specialized installation techniques.

TRADE FAIRS & EXHIBITIONS

We regularly present our products at industry events around the world. Seize the opportunity to experience our systems in person, meet our team, and ask all your questions. Take a look at our events calendar to see where we'll be next.

SCHLETTER ON TOUR

Unable to visit us at a trade fair? No problem. With our mobile Schletter showroom, we'll come to you. Together with our sales partners, we warmly invite you to discover our systems on site and see first-hand how they can make your projects successful.

HOUSE OF SCHLETTER

Seeing is believing, but real understanding comes through interaction. That's why we're excited to introduce The House of Schletter—our first-ever virtual showroom.

Inside, you can explore lifelike, digital replicas of our most popular products, learn more about their features, and even familiarize yourself with the installation processes. It's an experience far more memorable and immersive than any manual or handbook.

SCHLETTER CREATOR

Planning your rooftop projects is now easier, faster, and smarter.

Schletter Creator is our next-generation rooftop calculator and, with it, you can revolutionize your workflows.

This pioneering tool enables you to design your ideal mounting system in just a few minutes and plan, optimize and visualize your projects with unrivalled precision in record time.

GENERAL INFORMATION

PLANNING SUPPORT

Schletter Configurator is one of the most popular planning tools for our solar mounting systems. It supports you in professionally planning and calculating your rooftop system. The best part: it's free to download from [schletter-group.com](https://www.schletter-group.com).

TOLERANCES

Manufacturing-specific tolerances must be taken into account for all dimensions.

STRUCTURAL ANALYSIS

Structural calculations in accordance with the current country-specific standards (in Germany EN 1991, EC1). Supplementary calculation sheet for determining the number of required fastening points is based on the structural calculation. In each case, please observe the information on structural analysis.

Structural analysis of the respective roof or its substructure is not included in the general structural analysis appendices.

INFORMATION LITERATURE

On our Downloads page you will find current catalogs, product sheets, and installation instructions. These provide a detailed overview of the application and assembly of our products.



[www.schletter-group.com/
download-center/](https://www.schletter-group.com/download-center/)



MATERIALS USED

- **Roof hooks and their main components:**
High-strength steel with zinc flake coating, stainless steel 1.4301 or aluminum EN AW 6063
- **Screws, nuts, and bolts:**
A2 stainless steel or higher
- **Sheet metal components:**
Stainless steel 1.4301 or aluminum EN AW 6063
- **Rails:**
Aluminum EN AW 6063, T66 or similar
- **Module clamps:**
Aluminum EN AW 6063, T66 or similar
- **Rubber washers/seals:**
EPDM (UV-resistant)

Items of differing materials will be specifically described.

SERIES IDENTIFICATION

The icons below show at a glance which series an item belongs to. If no icon is shown, the item or system is compatible with both series.

Naturally, our qualified technicians are also available to answer any questions.



**CLASSIC SERIES
COMPATIBLE**



**PROLINE SERIES
COMPATIBLE**

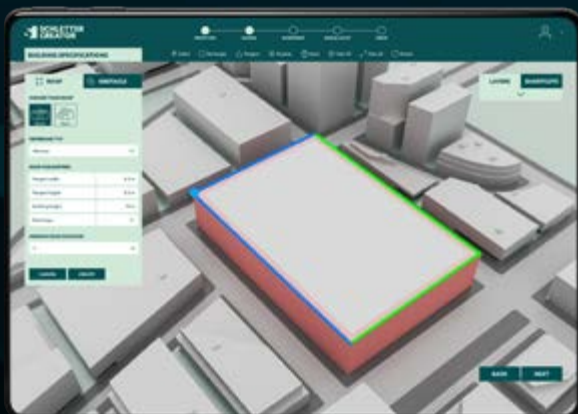
CREATE WITH CONFIDENCE.

FLAT ROOF PV PLANNING THE WAY IT SHOULD BE.



1

Enter the address and outline the rooftop area you're working with.



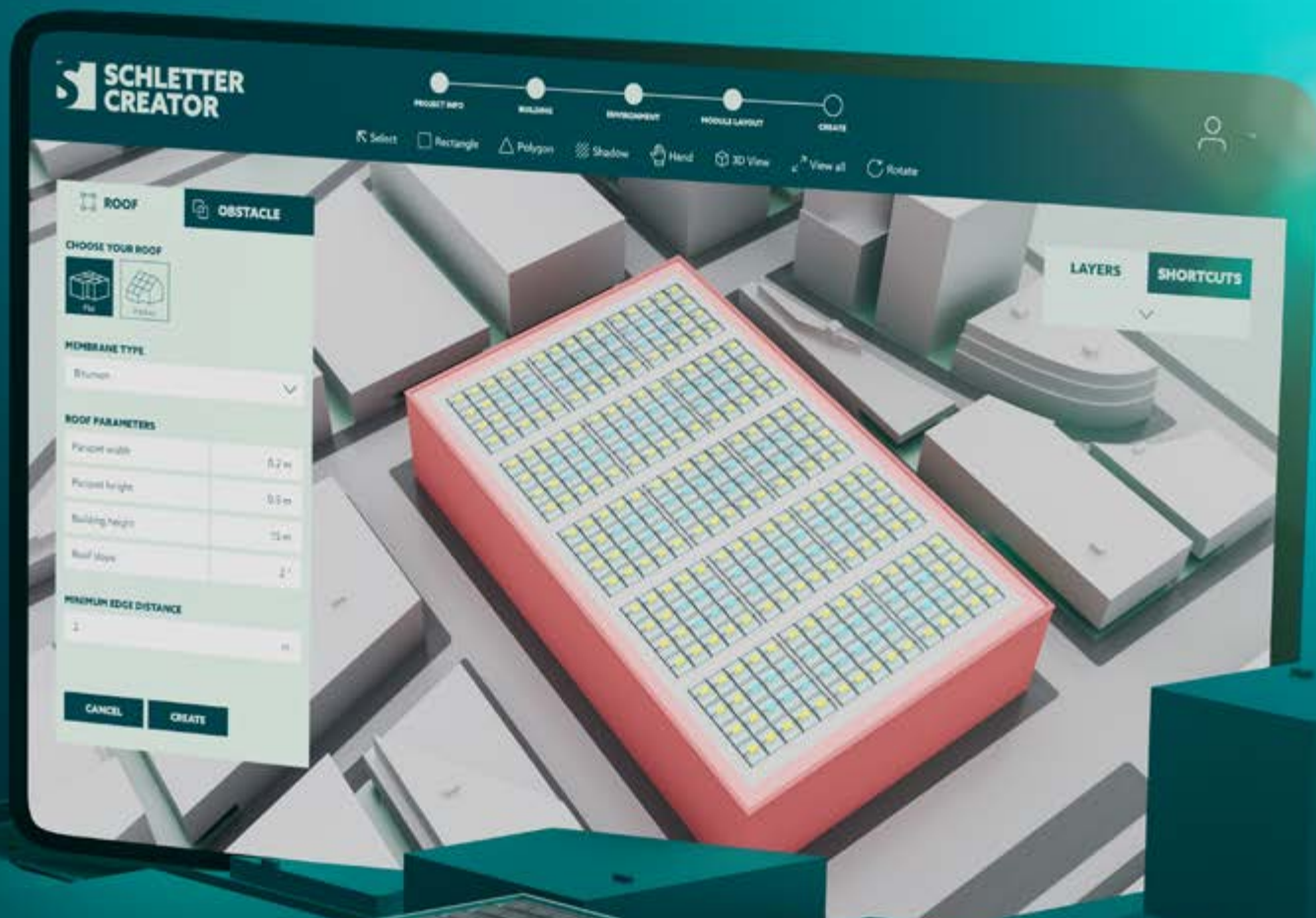
2

View it in 3D through 360° to make sure it's as accurate as possible.



3

Choose your mounting system and watch the ideal layout appear automatically.



NEW



**SCHLETTER
CREATOR**

FLAT ROOF SYSTEMS

BALLASTED SOLUTIONS FOR
EVERY STRUCTURE.





FIXGRID PRO

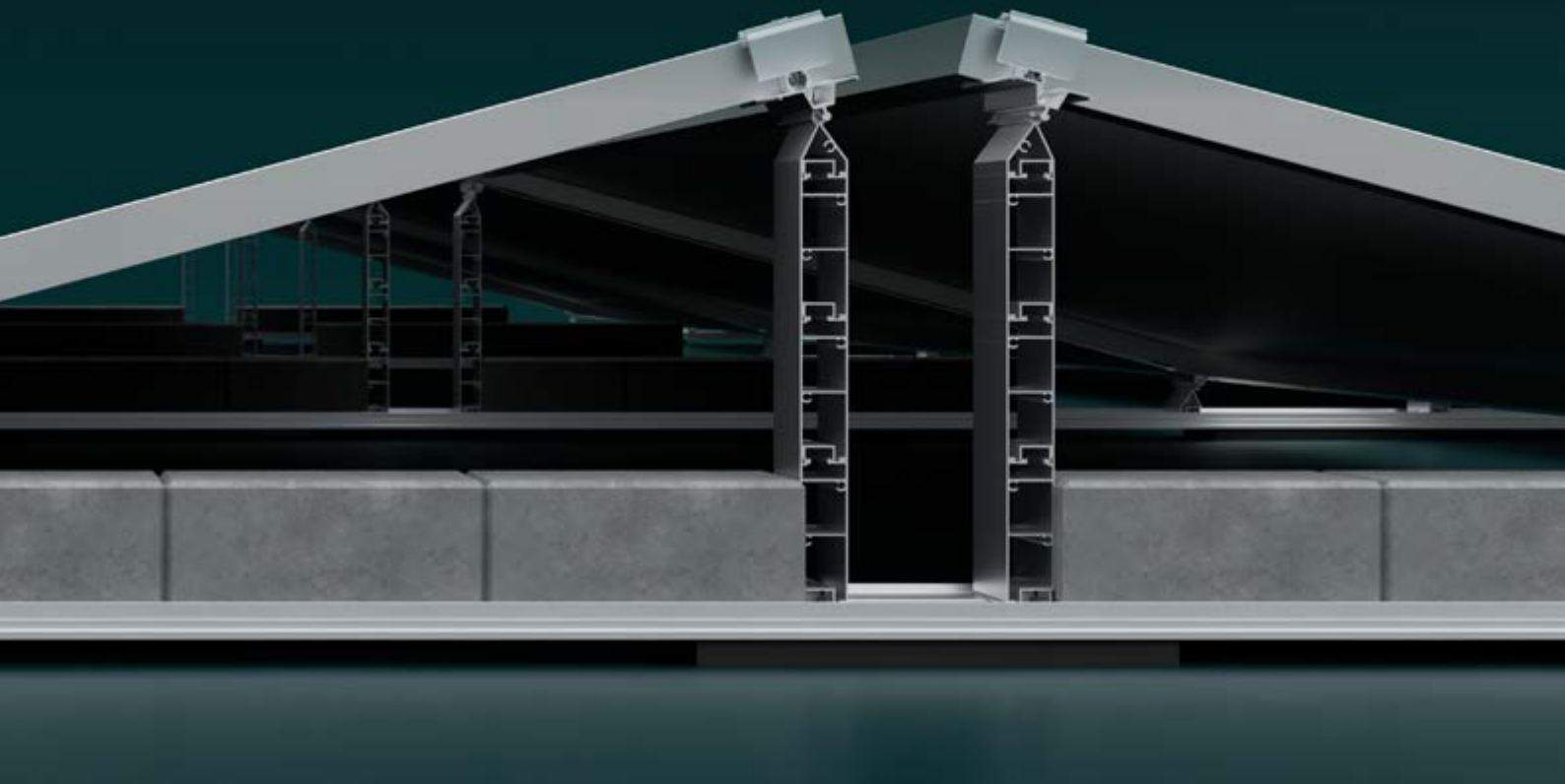
PROLINE



ENDLESS POSSIBILITIES.

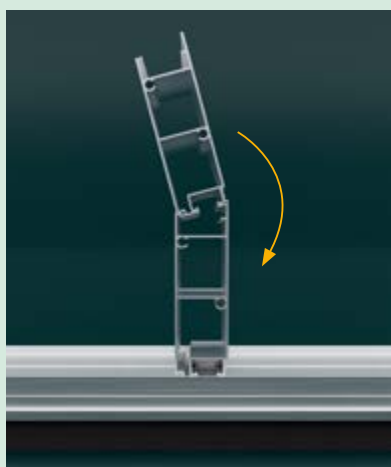
WITH FIXGRID PRO,
YOU CAN ACHIEVE
YOUR DESIRED TILT
ANGLE WITH JUST A
FEW COMPONENTS.

- + Improved aerodynamics to reduce and optimize ballast
- + Flexible planning and assembly to save time
- + Compatible with ProLine module clamps
- + Tool-free assembly of the elevations
- + Modules mountable in landscape or portrait
- + Enables short- and long-side clamping
- + Tilt angles of 5°, 10°, or 15° possible regardless of module clamping, orientation, or size
- + Integrated building protection mats and installable with zero roof penetration
- + Single or double orientation (South or East-West)
- + Lightning surge capacity
- + Planning, structural analysis, and documentation via the Schletter Configurator



PRACTICAL DESIGN

FixGrid Pro components are designed to be quickly assembled by simply clicking them together without the need for tools. This can save valuable time and labor costs.



HOOK IN

The Elevation Pro hooks into the top end of the Screw-In Elevation Pro at a slight angle...



CLICK IN

...and clicks into position.



NEW

FIXGRID PRO SUPPORT PLATES

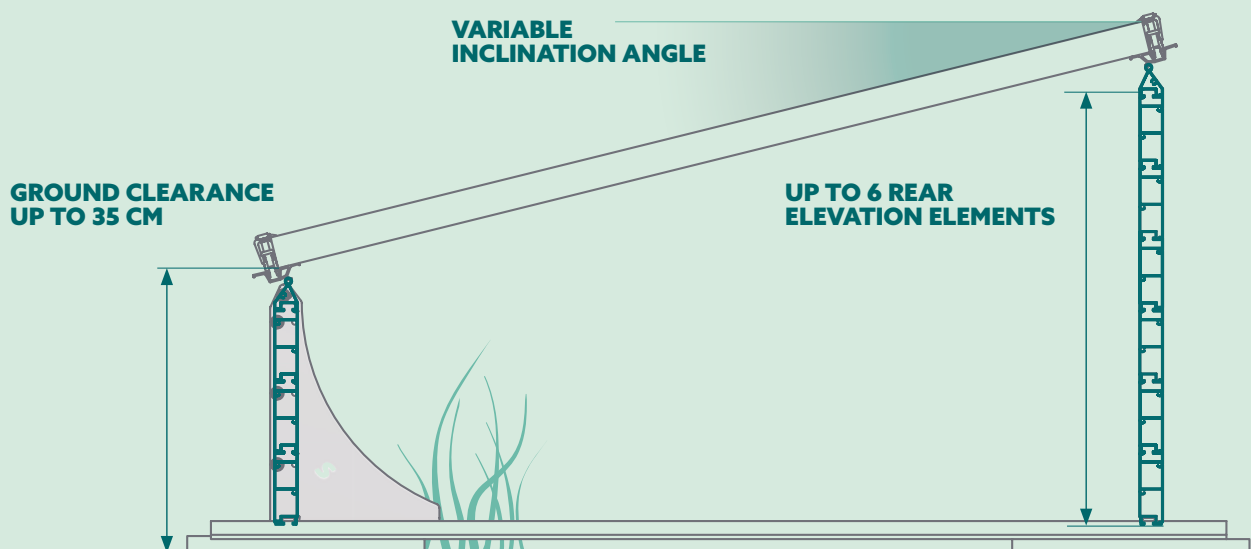
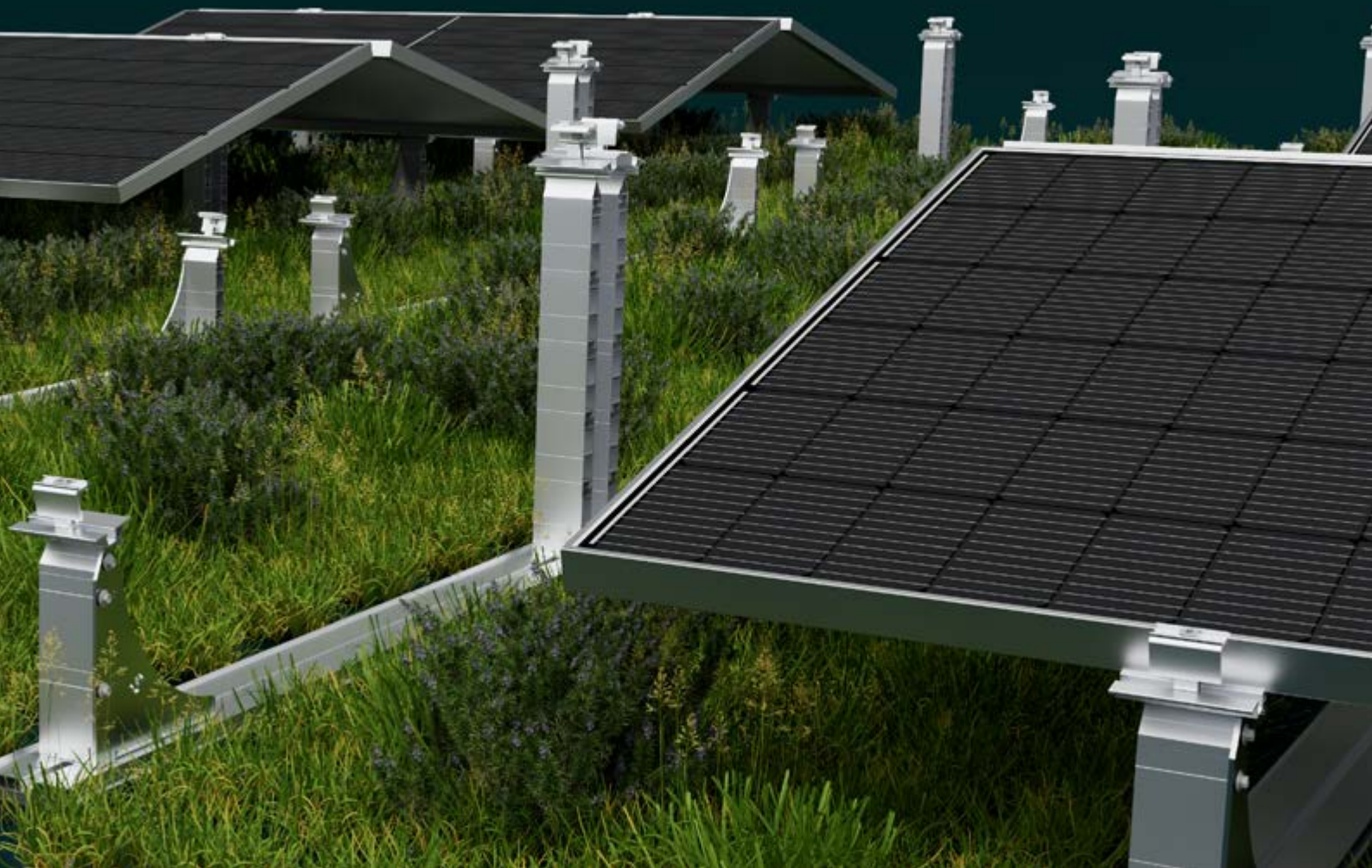
ADDITIONAL BRACING TAKES FIXGRID PRO TO NEW HEIGHTS

The Pro elevation elements enable different construction heights—but what if a high ground clearance is required (e.g. for green roof systems)?

With the help of FixGrid Pro support plates, the elevation elements can be braced to guarantee stability at heights of up to 35 cm in even the most extreme conditions.

- + Material-efficient use of the support plates, only necessary on the lower side of the support
- + 2 different versions enable 5°, 10°, and 15° inclinations







NEW

FIXGRID PRO PLUS WITH MODULE SUPPORT FLEX PRO

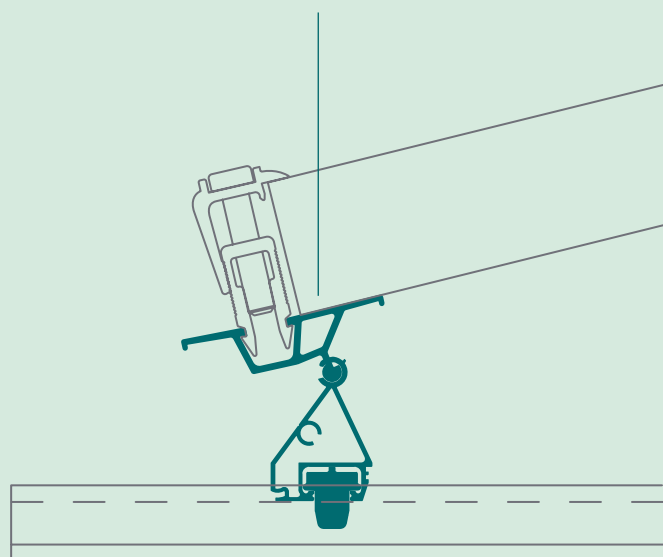
QUARTER-POINT CLAMPING ON THE LONG SIDE, EVEN WITH INCREASED LOADS.

The new Flex Pro module support enables long-side quarter-point clamping, even with increased wind and snow loads.

Due to these loads, clamping at the corners of large modules isn't possible—but, with the Flex Pro, quarter-point clamping is. (i.e. FixGrid Pro Plus)

The system's load capacity benefits from the enlarged contact surface of the asymmetrical swivel head, but the Flex Pro can also be used in standard, corner-clamped systems.

**ENLARGED
CONTACT SURFACE**



FLAT ROOF BALLASTED

PROLINE TILTED SYSTEMS



FIXGRID PRO

SINGLE OR DOUBLE ORIENTATION SYSTEM
WITH UP TO 15° MODULE TILT

- Material: Aluminum with stainless steel connector elements
- Mounting without roof penetrations
- Rubber granulate surface protection mat with aluminum triplex lamination on the underside to prevent plasticizer migration
- Module tilts of 5°, 10°, or 15° with variable module clamping and configurations



FixGrid Pro & FlatGrid Pro Base Rails	
165001-01500	Base Rail Pro 1500 mm
165001-02500	Base Rail Pro 2500 mm
165001-03500	Base Rail Pro 3500 mm
165001-04500	Base Rail Pro 4500 mm
165001-06000	Base Rail Pro 6000 mm

129200-001	Connector Base Rail Pro	PU: 70
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Two connector pieces per connection are required.

Module Supports		
165005-001	Screw-In Module Support Pro Designed for mounting to Base Rail Pro.	PU: 25

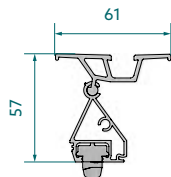
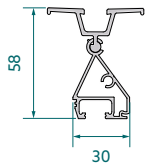
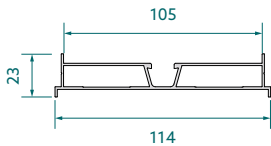
165005-004	Module Support Pro Designed for mounting to Screw-In Elevation Pro or Elevation Pro.	PU: 25
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165005-007*	Screw-In Module Support Flex Pro Designed for mounting to Base Rail Pro.	PU: 20
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* Available from Q4/2025.

165005-008*	Modulaufleger Flex Pro Designed for mounting to Screw-In Elevation Pro or Elevation Pro.	PU: 20
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* Available from Q4/2025.

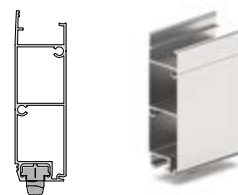


FLAT ROOF BALLASTED

PROLINE TILTED SYSTEMS

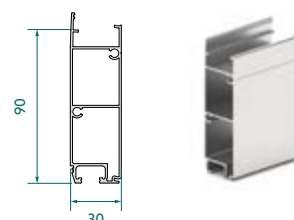
Elevation elements

165005-002	Screw-In Elevation Pro Designed for mounting to Base Rail Pro.	PU: 25
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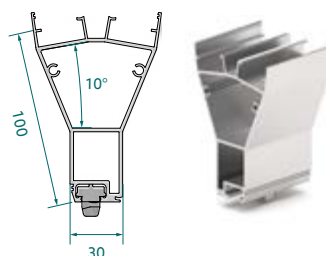
165005-003	Elevation Pro Designed for mounting to the Screw-In Elevation Pro.	PU: 25
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The number of strut pieces varies depending on the desired module tilt:
1 piece = 5°, 2 pieces = 10°, and 3 pieces = 15°.



165005-100	Screw-In Center Base Pro Designed for mounting to Base Rail Pro.	PU: 25
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The Screw-In Center Base Pro is designed to give a tilt angle of 10°.



Support Plates

165005-005*	FixGrid Pro Support Plate 2 For bracing with 2 elevation elements.	PU: 45
165005-006*	FixGrid Pro Support Plate 3 For bracing with 3 elevation elements.	PU: 30

* Available from Q4/2025.



NOTE:

The support plates attach to each lower support.
No support plates are required on the upper side.



Accessories for Support Plates

943001-238	Flange Buttonhead Bolt M8 x 16, DIN 34805-2, Torx 40, A2, with locking teeth and Gleitmo coating	PU: 100
942000-902	Hammerhead Nut Pro	PU: 100
943000-360	Thin Sheet Metal Screw 6.0 x 25 A2 with rubber washer	PU: 100

3 thin sheet metal screws are required for each Support Plate 2.
4 thin sheet metal screws are required for each Support Plate 3.





Ballast Tray		
169020-100	Ballast Tray Pro	
169020-001	Cover Plate Ballast Tray Pro	PU: 20
169200-000	Clamping Wedge Ballast Tray Pro	PU: 10

Two wedge clamps per ballast tray are required.



Ballast & Connection Rails		
165002-01600	Ballast + Connection Rail Pro 1600 mm	
165002-02000	Ballast + Connection Rail Pro 2000 mm	
165002-02350	Ballast + Connection Rail Pro 2350 mm	
165002-02700	Ballast + Connection Rail Pro 2700 mm	
165002-06000	Ballast + Connection Rail Pro 6000 mm	



129200-002	Connector Ballast Rail Pro	PU: 40
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165001-00550	Base Rail Pro 550	PU: 25
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Serves as mid-point support for Ballast & Composite Rail Pro.



129063-002	RapidConnect90	PU: 100
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Connects base rail to ballast + connection rail.



Surface Protection Mats		
169004-003	Surface Protection Mat 300 x 110 x 20 mm AK SK	PU: 25
169004-008*	Surface Protection Mat 300 x 110 x 20 mm AK SK FH	PU: 25

AK (aluminum laminated), SK (self-adhesive), FH (flame retardant)
 *Available on request; please note longer delivery times.



FLAT ROOF BALLASTED

PROLINE TILTED SYSTEMS

Windsafe Sheet Metal

169205-135	Windsafe 5 Pro up to 1350 mm modules
169205-180	Windsafe 5 Pro up to 1800 mm modules
169205-215	Windsafe 5 Pro up to 2150 mm modules
169205-250	Windsafe 5 Pro up to 2500 mm modules
169210-135	Windsafe 10 Pro up to 1350 mm modules
169210-180	Windsafe 10 Pro up to 1800 mm modules
169210-215	Windsafe 10 Pro up to 2150 mm modules
169210-250	Windsafe 10 Pro up to 2500 mm modules
169215-135	Windsafe 15 Pro up to 1350 mm modules
169215-180	Windsafe 15 Pro up to 1800 mm modules
169215-215	Windsafe 15 Pro up to 2150 mm modules
169215-250	Windsafe 15 Pro up to 2500 mm modules



943001-232	Thin Sheet Metal Screw 6.0 x 22 A2 with rubber washer
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PU: 100

Screws for fastening Windsafe sheets.

163000-400 FixGrid Pro Kit East-West

All the features and advantages of FixGrid Pro in a practical, pre-assembled kit.

169008-006 FixGrid Pro Screw-In Tool

PU: 2

For easier installation of screw-in module supports and screw-in elevations.



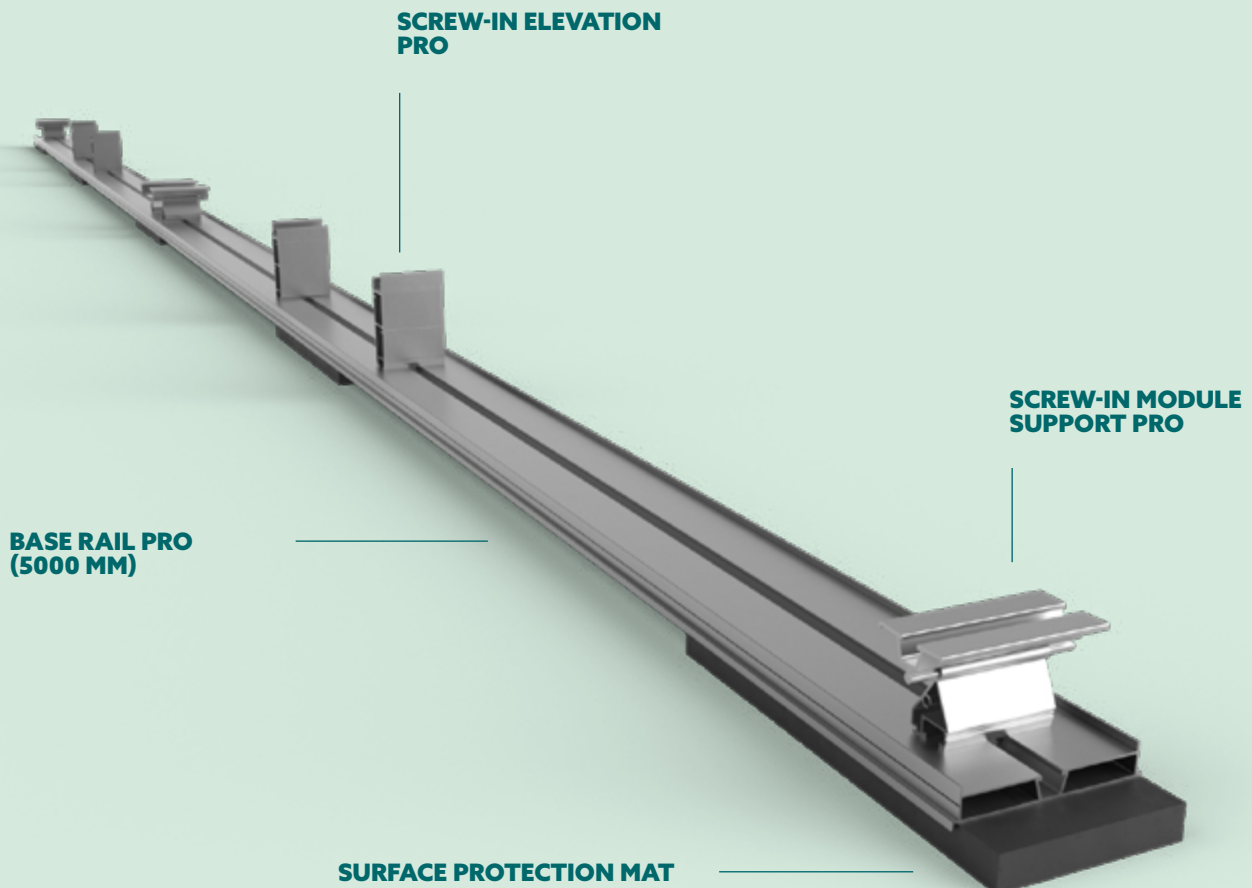
FIXGRID PRO KIT EAST-WEST

ALL THE ADVANTAGES OF FIXGRID PRO COMBINED
INTO A PRE-CONFIGURED EAST-WEST KIT.

The pre-configured FixGrid Pro kits can be used to augment a FixGrid Pro-100 array. The kits comprise all the required rails and building protection mats, as well as the screw-in module supports and screw-in elevations.

This optimizes the preliminary planning and logistics for the construction site and makes on-site assembly planning easier.

- + Streamlined logistics: simplified process from initial planning through to delivery
- + Safe and simple handling: easy assembly and mounting directly on site



FLAT ROOF BALLASTED

CLASSIC TILTED SYSTEMS

FIXGRID 18

SINGLE OR DOUBLE ORIENTATION TILTED FLAT ROOF SYSTEM

- Material: Aluminum with stainless steel connector elements
- Mountable without roof penetration
- Rubber granulate surface protection mat with aluminum triplex lamination on the underside to prevent plasticizer migration
- Module tilts of approx. 5°, 10°, or 13° with variable configurations



Surface Protection Mats

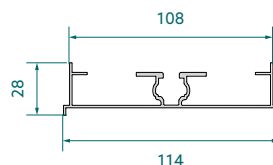
169004-003	Surface Protection Mat 300 x 110 x 20 mm AK SK	PU: 25
169004-008*	Surface Protection Mat 300 x 110 x 20 mm AK SK FR	PU: 25

AK (aluminum laminated), SK (self-adhesive), FH (flame retardant)

*Available on request; please note longer delivery times.

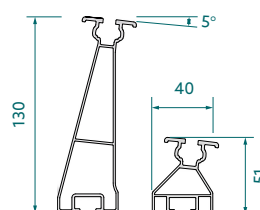
Base Rails FixGrid & FlatGrid

128039-006	Base Rail FlatGrid 6000 mm
128039-203	Base Rail FlatGrid 2150 mm
128039-214	Base Rail FlatGrid 4200 mm
128039-215	Base Rail FlatGrid 6300 mm



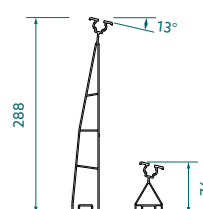
Module Support Rails FixZ-7

121001-04400	FixZ-7 System Rail18 upper 4400 mm
121001-05500	FixZ-7 System Rail18 upper 5500 mm
121010-04400	FixZ-7 System Rail18 lower 4400 mm
121010-05500	FixZ-7 System Rail18 lower 5500 mm



Module Support Rails FixZ-15

121008-04400	FixZ-15 System Rail18 upper 4400 mm
121008-05500	FixZ-15 System Rail18 upper 5500 mm
121009-04400	FixZ-15 System Rail18 lower 4400 mm
121009-05500	FixZ-15 System Rail18 lower 5500 mm



FixZ Rail Pieces including FixGrid screw-in connectors

163900-011	FixZ-7 System Rail upper 96 mm with connector	PU: 25
163900-012	FixZ-7 System Rail lower 96 mm with connector	PU: 25
163900-021	FixZ-10 System Rail upper 96 mm with connector	PU: 25
163900-022	FixZ-10 System Rail lower 96 mm with connector	PU: 25
163900-023	FixZ-10 System Rail middle 96 mm with connector	PU: 25
163900-001	FixZ-15 System Rail upper 96 mm with connector	PU: 25
163900-002	FixZ-15 System Rail lower 96 mm with connector	PU: 25
163900-003	FixZ-15 System Rail middle 96 mm with connector	PU: 25



ALTERNATIVE

Realizing tilted flat roof systems with FixGrid Pro (p. 20)



Ballast Tray		
169020-170	FixGrid Ballast Tray up to 1700 mm	
169020-210	FixGrid Ballast Tray up to 2067 mm	
169020-240	FixGrid Ballast Tray up to 2400 mm	
169020-000	FixGrid Ballast Tray End Plate Only for 169020-240	PU: 20

FixZ Windsafe		
169018-170	FixZ-7 Windsafe up to 1700 mm	
169018-210	FixZ-7 Windsafe up to 2067 mm	
169017-170	FixZ-10 Windsafe up to 1700 mm	
169017-210	FixZ-10 Windsafe up to 2067 mm	
169017-240	FixZ-10 Windsafe up to 2400 mm	
169019-170	FixZ-15 Windsafe up to 1700 mm	
169019-210	FixZ-15 Windsafe up to 2067 mm	
169019-240	FixZ-15 Windsafe up to 2400 mm	

Rail Connector		
129002-002	Connector E Solo, SoloPlus, FixZ-7, FixZ-15 (pre-assembled)	PU: 100
129019-011	Additional connector for FixZ-15 upper	PU: 100
943001-232	Thin Sheet Metal Screw 6.0 x 22 A2 with rubber washer	PU: 100

1 connector and 2 screws per connection are required.

129063-000	Rapid Cross Connector Pre-assembled, compatible with Klicknut M8 rail channel.	PU: 200
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Connectors		
129062-021	Tension Connector	PU: 100

Two connector pieces per connection are required.

129061-001	Ridge Connector Set	PU: 50
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Accessories for use with tension and ridge connectors		
943000-025	Hex Cylinder Head Bolt M8 x 20, DIN EN ISO 4762, A2 with locking teeth and Gleitmo coating	PU: 100
943000-043	Large Washer M8, DIN EN ISO 7093-1, A2	PU: 100
943914-008	Square Nut M8, A4	PU: 100
129010-008	KlickIn click component for nut M8	PU: 100





FLATGRID PRO PROLINE

NUMEROUS CONFIGU- RATIONS ENABLED BY ONE MODULAR SYSTEM.

A STREAMLINED SET
OF COMPONENTS FOR
SIMPLIFIED STORAGE
AND EASY ASSEMBLY.

- + Suited to flat roofs with pitches of up to 10°
- + Improved aerodynamics to reduce and optimize ballast
- + Compatible with ProLine module support rails and clamps
- + Easy to install with fewer components and tools
- + Modules mountable in landscape or portrait
- + Supports short- and long-side clamping
- + Integrated building protection mats and installable with zero roof penetration
- + Easy storage with fewer components
- + Lightning surge capacity



SURFACE PROTECTION

Protecting the waterproofing is a high priority when installing on a flat roof. Surface protection mats made of rubber granulate are used as a base to prevent any damage from the PV system.

The underside of the mat is laminated with an aluminum triplex film to prevent plasticizer migration between roof surfaces incompatible with the rubber mats.

TWIST-IN RAIL

Easy installation of the Pro70 Twist-in Rail enables quick system mounting on flat roofs.

On uneven roofs, the Rapid Pro L-Bracket allows height adjustability of up to 30 mm.

BALLASTING

The system offers several options for ballasting. Ballast stones can be placed on the base rails. Additional ballast stones can also be laid in ballast trays. These span between the base rails when more ballast is needed at certain points of the array to mitigate high wind loads, e.g. in edge and corner zones.

FLAT ROOF BALLASTED

PROLINE PARALLEL MOUNTED SYSTEMS

FLATGRID PRO

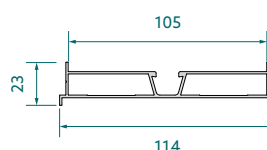
SUITABLE FOR UP TO 10° ROOF PITCH

- Material: Aluminum with stainless steel connector elements
- Mountable with zero roof penetration
- Rubber granulate surface protection mat with aluminum triplex lamination on the underside to prevent plasticizer migration



FlatGrid Pro & FixGrid Pro Base Rails

165001-01500	Base Rail Pro 1500 mm
165001-02500	Base Rail Pro 2500 mm
165001-03500	Base Rail Pro 3500 mm
165001-04500	Base Rail Pro 4500 mm
165001-06000	Base Rail Pro 6000 mm



129200-001	Connector Base Rail Pro	PU: 70
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Two connector pieces per connection are required.



Connectors

119026-122	Rapid Pro L-Bracket	PU: 100
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Dimensions see p. 65



129062-021	Tension Connector	PU: 100
-------------------	-------------------	---------

Two connector pieces per connection are required.



129061-001	Ridge Connector Set	PU: 50
-------------------	---------------------	--------



Accessories

943001-238	Flange Buttonhead Bolt M8 x 16, DIN 34805-2, Torx 40, A2, with locking teeth and Gleitmo coating	PU: 100
942000-902	Hammerhead Nut Pro	PU: 100

For use with tension and ridge connectors, and L-brackets.



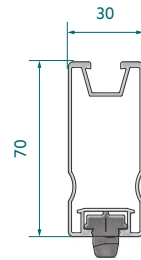


Module Support Rail Pro

120020-00100	Module Support Rail Pro35 100 mm	PU: 100
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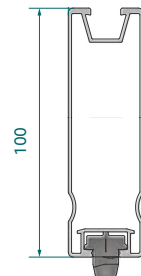
120022-000	Screw-In Rail Pro70	PU: 100
-------------------	---------------------	---------



120023-000*	Screw-In Rail Pro100	PU: 70
--------------------	----------------------	--------

Sufficient height for standard concrete ballast blocks

* Available from Q4/2025.



Ballast Tray

169020-100	Ballast Tray Pro	
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169020-001	End Plate Ballast Tray Pro	PU: 20
-------------------	----------------------------	--------



169200-000	Wedge Clamp Ballast Tray Pro	PU: 10
-------------------	------------------------------	--------

Two wedge clamps per ballast tray are required.



Surface Protection Mats

169004-003	Surface Protection Mat 300 x 110 x 20 mm AK SK	PU: 25
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169004-008*	Surface Protection Mat 300 x 110 x 20 mm AK SK FH	PU: 25
--------------------	---	--------

AK (aluminum laminated), SK (self-adhesive), FH (flame retardant)

*Available on request; please note longer delivery times.



FLAT ROOF BALLASTED

CLASSIC PARALLEL MOUNTED SYSTEMS

FLATGRID CLASSIC

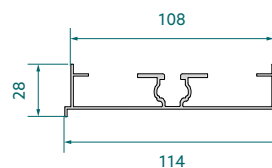
SUITABLE FOR UP TO 10° ROOF PITCH

- Material: Aluminum with stainless steel connector elements
- Mountable with zero roof penetration
- Rubber granulate surface protection mat with aluminum triplex lamination on the underside to prevent plasticizer migration



FlatGrid Classic Base Rails

128039-006	Base Rail FlatGrid 6000 mm
128039-203	Base Rail FlatGrid 2150 mm
128039-214	Base Rail FlatGrid 4200 mm
128039-215	Base Rail FlatGrid 6300 mm



129078-001	Interior connector FlatGrid	PU: 50
943001-232	Thin Sheet Metal Screw 6.0 x 22 A2 with rubber washer	PU: 100

Two connector pieces with four screws per connection are required.

Connectors

119026-122	Rapid Pro L-Bracket	PU: 100
-------------------	---------------------	---------

Dimensions see p. 65

129062-021	Tension Connector	PU: 100
-------------------	-------------------	---------

Two connector pieces per connection are required.

129061-001	Ridge Connector Set	PU: 50
-------------------	---------------------	--------

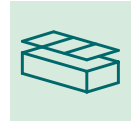


Accessories

943000-025	Hex Cylinder Head Bolt M8 x 20, DIN EN ISO 4762, A2 with locking teeth and Gleitmo coating	PU: 100
943000-043	Large Washer M8, DIN EN ISO 7093-1, A2	PU: 100
943914-008	Square Nut M8, A4	PU: 100
129010-008	KlickIn click component for nut M8	PU: 100

For use with tension and ridge connectors, and L-brackets.





Surface Protection Mats

169004-003	Surface Protection Mat 300 x 110 x 20 mm AK SK	PU: 25
169004-008*	Surface Protection Mat 300 x 110 x 20 mm AK SK FH	PU: 25

AK (aluminum laminated), SK (self-adhesive), FH (flame retardant)
 *Available on request; please note longer delivery times.



Additional Accessories

169017-000	FlatGrid loading tray for base rail	PU: 50
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169004-013	Surface Protection Mat 230 x 110 x 8 mm (laminated)	PU: 100
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ALTERNATIVE

Realizing flat roof systems with FlatGrid Pro (p. 32)

SUPPORT SYSTEMS

- FLAT ROOF
- FAÇADE
- GREEN ROOF
- ACCESSORIES





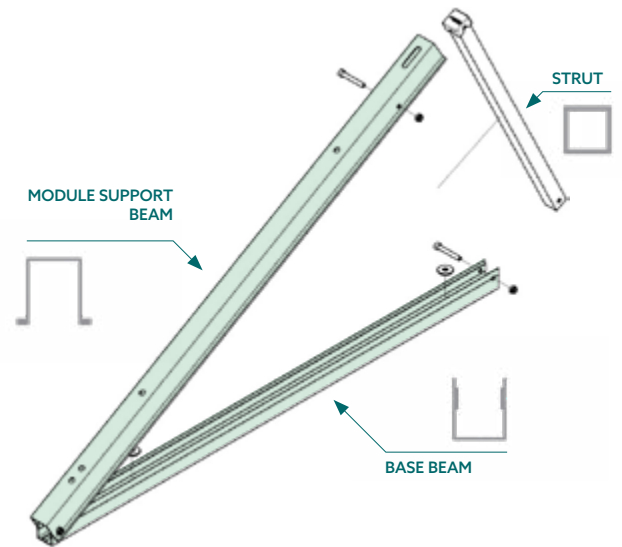
BEAM KITS

SUPPORTS

The pre-assembled kits consist of the base beam and the module support beam. Struts and fasteners are required to complete the kits.

PLEASE NOTE: The mounting positions of the module support rails can be found in the respective dimension tables (dimensions c, d, e). Pay attention to the specifications of the module manufacturers.

For all types of flat roof fastening, diagonal reinforcement of the struts using banding may be required depending on the roof substructure and fastening method. If necessary, this can also be carried out on site with, for example, the Punched Mounting Band 16 (119015-003).



BEAM KIT STRUTS

- Material: Aluminum 3.3206 / EN AW 6060-T6 and end caps PA (Polyamide)

159005-001	Strut with end cap 338 mm
159005-002	Strut with end cap 428 mm
159005-003	Strut with end cap 520 mm
159005-004	Strut with end cap 613 mm
159005-005	Strut with end cap 700 mm
159005-006	Strut with end cap 781 mm
159005-007	Strut with end cap 1359 mm



BEAM KIT FASTENERS

943000-024	Hex Cylinder Head Bolt M8x55, DIN EN ISO 4762, A2 with Gleitmo coating (2 pieces/strut)	PU: 100
943001-240	Self-locking Hex Nut M8, DIN EN ISO 7040, A4 (2 pieces/strut)	PU: 500
943000-043	Large Washer M8, DIN EN ISO 7093-1, A2 (1 piece/screwing point for base rail)	PU: 100
943000-056	Large Washer M10 DIN EN ISO 7093-1, A2 (1 piece/screwing point for base beam)	PU: 100

A2 and A4: corrosion-resistant stainless steel.



FLAT ROOF

SUPPORTS

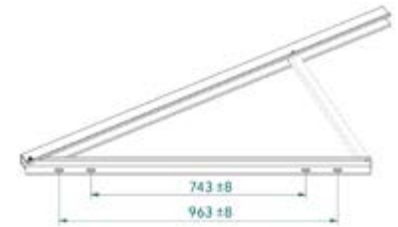
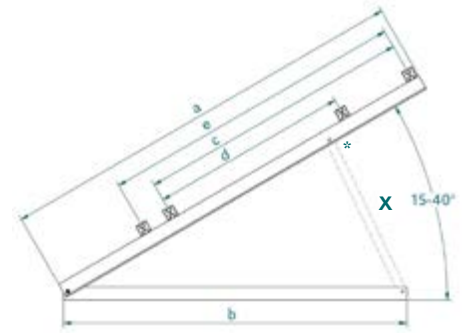


FLAT ROOF BEAM KIT SMALL

LONG SIDE CLAMPING FOR MODULES IN PORTRAIT

- Material: Aluminum
- Allows tilt angles of 15° to 40°
- Mounting in portrait or landscape

150002-130	Flat Roof Support Light 1.3 m Beam Kit				
	a	b	c	d	e
mm	1195	1193	810-850	600	997-1067

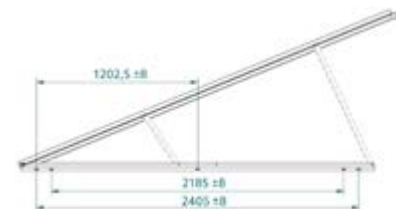
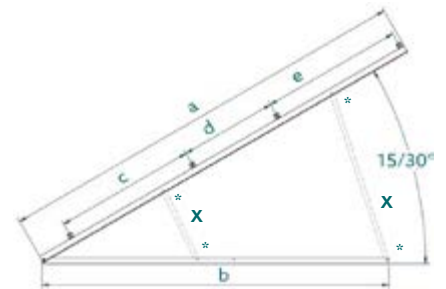


FLAT ROOF BEAM KIT MEDIUM

MOUNTING STANDARD MODULE LENGTHS FROM 1.50 m

- Material: Aluminum
- Allows tilt angles of 15° to 40°
- Mounting in portrait or landscape

150002-150	Flat Roof Support Light 1.5 m Beam Kit				
	a	b	c	d	e
mm	1445	1193	920-960	690	997-1067



FLAT ROOF BEAM KIT LARGE

LARGE SCALE MODULE MOUNTING
UP TO 2 ROWS IN PORTRAIT

- Material: Aluminum
- Allows tilt angles of 15° to 30°
- Mounting in portrait or landscape

155002-320	Flat Roof Support Light 3.2 m Beam Kit				
	a	b	c	d	e
mm	3195	2635	1080	733	1072

FLAT ROOF STRUT TABLE

	15°	20°	25°	30°	35°	40°
150002-130	159005-001	159005-002	159005-003	159005-004	159005-005	159005-006
150002-150	159005-001	159005-002	159005-003	159005-004	159005-005	159005-006
155002-320	159005-005 159005-001			159005-007 159005-004		

FAÇADE AND GREEN ROOF

BEAM KITS

FAÇADE BEAM KIT

TILT FROM VERTICAL

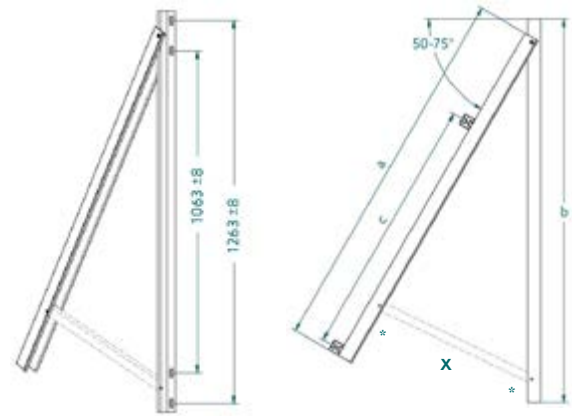
- Material: Aluminum
- Allows tilt angles of 50°–75° in 5° increments
- Mounting in portrait or landscape

156002-160	Façade Support Light 1.3 m Beam Kit		
	a	b	c
mm	1285	1323	900



FAÇADE STRUT TABLE

	50°	55°	60°	65°	70°	75°
156002-160	159005-006	159005-005	159005-004	159005-003	159005-002	159005-001



GREEN ROOF BEAM KIT

GREEN ROOFS COVERED IN VEGETATION

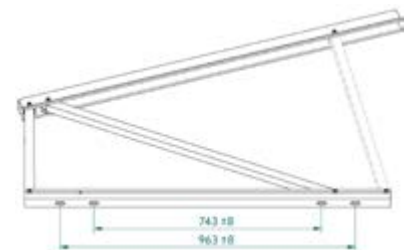
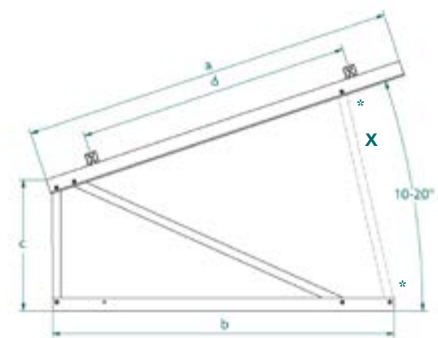
- Material: Aluminum
- Allows tilt angles of 10°–20° in 5° increments
- Mounting in portrait or landscape

152001-001	Green Roof Support for modules up to 1.6 m Beam Kit			
	a	b	c	d
mm	1300	1193	455	950



GREEN ROOF STRUT TABLE

	10°	15°	20°
152001-001	159005-004	159005-005	159005-006



ALTERNATIVE

Realizing green roofs with FixGrid Pro support plates (p. 22)

ACCESSORIES

SUPPORTS



BALLAST KIT

COMBINE WITH CONCRETE STONES OR BLOCKS

- Material: Aluminum with surface protection mats



159000-027	Concrete Block Ballast Kit18	PU: 100
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Kits consist of two aluminum rails including screws. One set per support is required.

SOLRACK ALU

COMBINE WITH GRAVEL TYPE BALLAST MATERIAL

- Material: Aluminum, 1 mm thickness
- Area: 0.55 m²
- SolRack Alu requires two screws, washers, and flange nuts each



160002-001	SolRack Alu (1 sheet)
------------	-----------------------



SolRack Alu Accessories

943610-025**	Hex Bolt M10 x 25, DIN 933, A2 with Gleitmo coating	PU: 100
943000-029	Hex Bolt M10 x 25, DIN EN ISO 4017, A2 with Gleitmo coating	PU: 100
943000-056	Large Washer M10, DIN EN ISO 7093-1, A2	PU: 100
943000-022	Flange Nut M10 with locking teeth, DIN EN 1661, A4 (V4A quality stainless steel)	PU: 100

A2 and A4: corrosion-resistant stainless steel.

** Item will be discontinued. Available while stocks last.



WINDSAFE

REAR PANEL TO REDUCE WIND LOADING

- Material: Aluminum

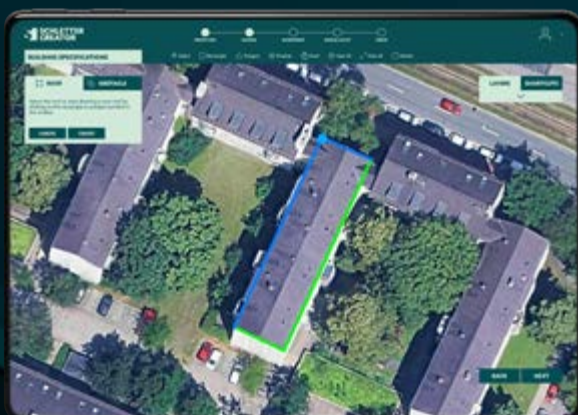


164160-180	Windsafe Vario Alu 160 x 1830 mm
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164250-180	Windsafe Vario Alu 250 x 1830 mm
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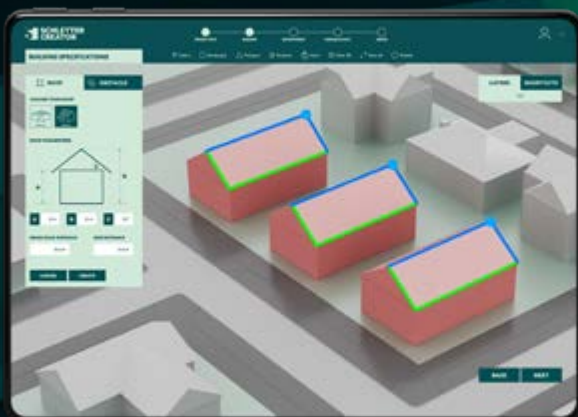
CREATE WITH CONFIDENCE.

PTCHED ROOF PV PLANNING THE WAY IT SHOULD BE.



1

Enter the address and outline the rooftop area you're working with.



2

View it in 3D through 360° to make sure it's as accurate as possible.



3

Choose your mounting system and watch the ideal layout appear automatically.



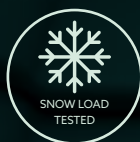
NEW



**SCHLETTER
CREATOR**

TILED ROOF

FASTENING TO SUBSTRUCTURE
WITH ROOF HOOKS.







21

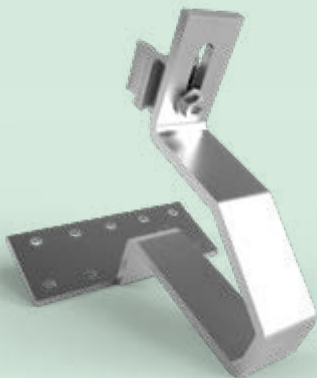
ROOF HOOKS FOR EVERY CONCEIVABLE SITUATION.

HEAVY-DUTY, EASY TO INSTALL,
AND EXCEPTIONALLY DURABLE.

Schletter roof hooks are heavy-duty, quick and easy to install, and suitable for all common types of roof and tile. Their optimized geometries also prevent tile breakage.

Designed for high snow or wind loads, material requirements can be efficiently calculated to meet the expected conditions.

- + Roof hooks for all common tile types
- + Compatible with all Classic and ProLine rails
- + High quality materials
- + Adaptable to any structural conditions



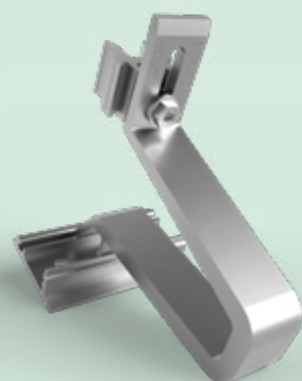
STAINLESS STEEL ROOF HOOK

Versatile, robust, welded stainless steel.



HIGH TENSILE STEEL ROOF HOOK

Welded hooks with a protective zinc flake coating are an ideal solution for heavy snow loads.



ALUMINUM ROOF HOOK

Lightweight, cost effective, and efficient.

COMBINATIONS

TILED ROOF / SHEET METAL REPLACEMENT TILE

1

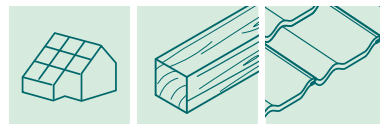
ROOF HOOK
Page 55

2

CONNECTOR
Page 65/132



PLEASE NOTE:
Additional roof hooks with special designs on page 56



3

RAIL

Page 112

4

CLAMP

Page 124

MOUNTING RAIL PRO
35 / 50 / 70 / 100
+ CONNECTOR



CROSS CONNECTOR
PRO



MOUNTING RAIL
PRO



**MODULE CLAMP
PRO**



MOUNTING RAIL SOLOPRO
+ CONNECTOR



RAPIDCONNECT 90



MOUNTING RAIL
ECO / SOLO / SOLOPLUS
+ CONNECTOR



CROSS CONNECTOR



MOUNTING RAIL



MODULE CLAMP



PRODUCT FEATURES

ROOF HOOKS

	STAINLESS STEEL RAPID						
	RAPID 2+ PRO 45	RAPID 2+ PRO 35	RAPID 2+ PRO UNIVERSAL	RAPID 2+ PRO MAX	RAPID 2+ PRO MAX 150	RAPID 2+ PRO MAXV	
Planning using Schletter Calculator	●	●	●	●	●	●	
Compatible with Classic and ProLine Rails	●	●	●	●	●	●	
Suited to lower battens		●					
Longer arm (to overlap longer tiles)					●		
Extra strong				●	●	●	
Pre-assembled multi-adapter (rotatable)	●	●	●	●	●	●	
Click-in installation							
Baseplate with 3 adjustable arm positions			●				
Free positioning along baseplate							
Allows vertical rail mounting			●			●	
Height adjustable on rail adapter			●				
Reduced weight per packaging unit							

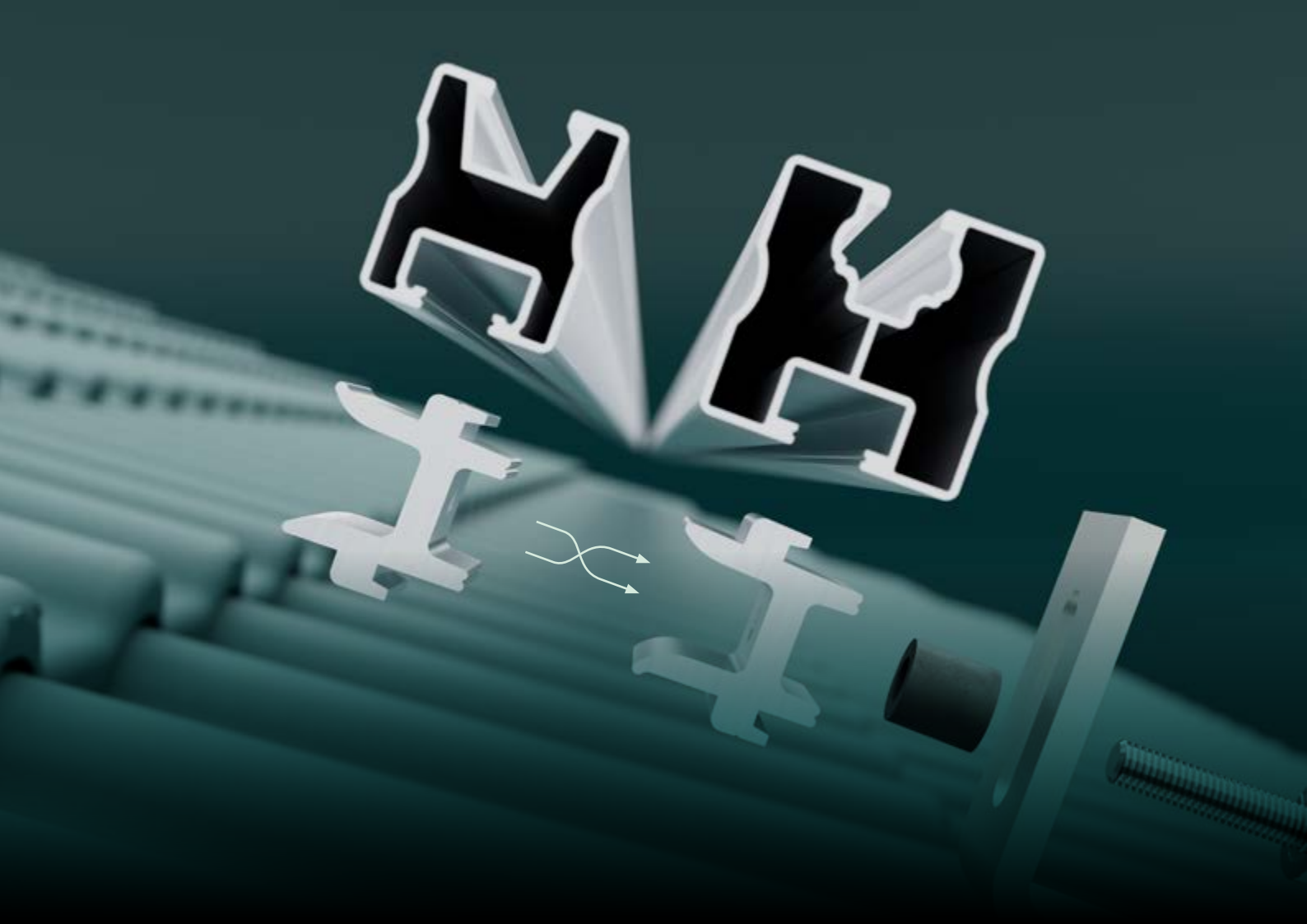
ENVIRONMENTAL FACTORS / REGIONS

Especially suited to coastal regions							
Snow and wind loads*	+	+	+	++	++	++	

* + Moderate to medium loads ++ High loads +++ Snow loads in alpine regions



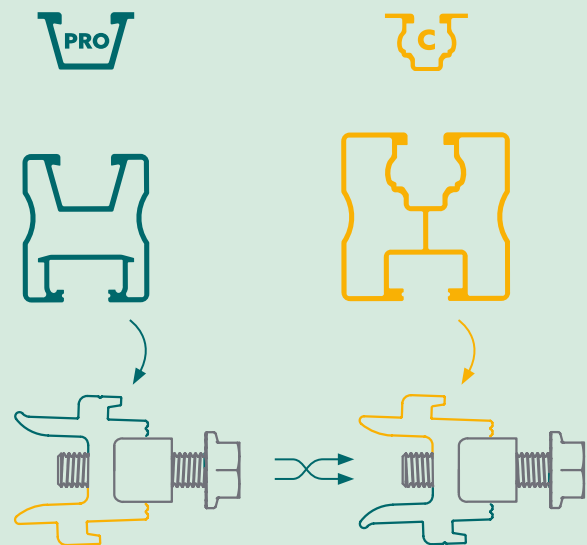
				●	●						
	+	+		+++	+++		++		++	++	++



RAPID ADAPTER

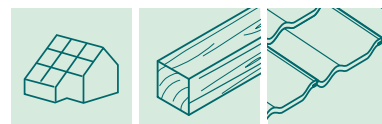
All Rapid roof hooks come pre-assembled with a multi-adapter. Each roof hook can be adapted to either Classic or ProLine rails by rotating the adapter.

Rapid-A and Rapid Pro SML aluminum roof hooks and Rapid Pro L-Brackets are also equipped with the adapter.



STAINLESS STEEL ROOF HOOKS

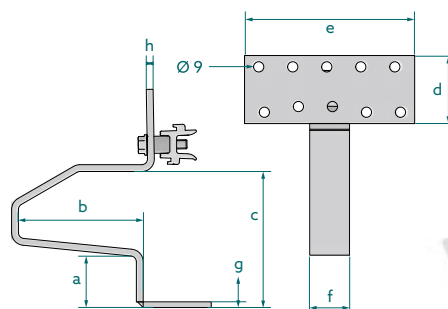
TILED ROOF



RAPID 2+

PRE-ASSEMBLED MULTI-ADAPTER FOR QUICK RAIL MOUNTING

- Roof hook material: Stainless steel
- Welded
- Arm symmetrical to baseplate
- Compatible with Classic and ProLine rails



101001-020 Rapid2+ Pro 45 Roof Hook										
	a	b	c	d	e	f	g	h	i	
mm	45	110	118	60	150	35	5	6	30	PU: 20

101002-020 Rapid2+ Pro 35 Roof Hook										
	a	b	c	d	e	f	g	h	i	
mm	35	110	108	60	150	35	5	6	30	PU: 20

101004-020 Rapid2+ Pro Universal Roof Hook										
	a	b	c	d	e	f	g	h	i	
mm	40-52	110	115-127	74	150	35	5	6	30	PU: 10

Universal: Height-adjustable multi-adapter also allows for vertical rail mounting and baseplate has 3 adjustable arm positions.

101005-020 Rapid2+ Pro Max Roof Hook										
	a	b	c	d	e	f	g	h	i	
mm	45	120	125	80	150	35	6	8	30	PU: 10

Max: Extra-strong arm for high snow loads.

101005-021 Rapid2+ Pro Max 150 Roof Hook										
	a	b	c	d	e	f	g	h	i	
mm	45	150	125	80	150	35	6	8	30	PU: 10

Max 150: Long, extra-strong arm to fit over longer tiles.

101006-020 Rapid2+ Pro MaxV Roof Hook										
	a	b	c	d	e	f	g	h	i	
mm	45	120	125	80	150	35	6	8	30	PU: 10

MaxV: Withstands higher snow loads and allows for vertical rail mounting.



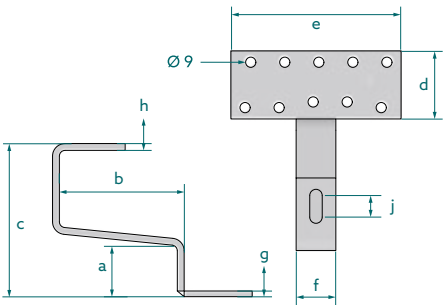
STAINLESS STEEL ROOF HOOKS

TILED ROOF

ECO

ROOF HOOKS WITH A COST-EFFECTIVE DESIGN

- Roof hook material: Stainless steel
- Welded
- Arm symmetrical to baseplate



100004-000 Eco S 135 Roof Hook

	a	b	c	d	e	f	g	h	j	
mm	45	110	135	60	150	35	5	6	19	PU: 20

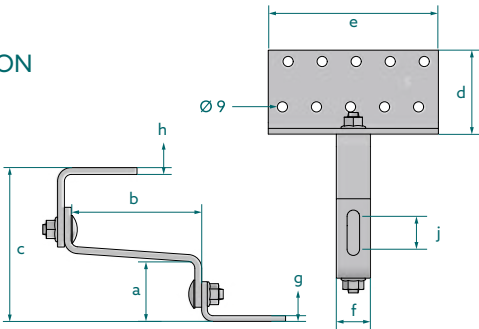
Eco: Cost-effective roof hook for most applications (without multi-adapter).



ECO UNIVERSAL

ADJUSTABLE ELBOW HEIGHT AND ARM POSITION

- Roof hook material: Stainless steel
- Pre-assembled center bar
- Center bar can be used in three positions



100001-000 Universal Roof Hook (Frankfurter Pfanne or interlocking tiles)

	a	b	c	d	e	f	g	h	j	
mm	42-52	115	102-135	74	150	30	5	6	29	PU: 20

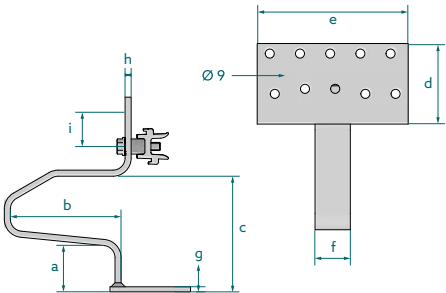


HIGH TENSILE STEEL ROOF HOOKS TILED ROOFS



RAPID 2+ HSL ESPECIALLY FOR VERY HIGH SNOW LOADS

- Roof hook material: High-tensile steel
- Zinc flake coated surface
- Welded
- Arm symmetrical to baseplate
- Pre-assembled multi-adapter



101001-022 Rapid2+ Pro 45 HSL Roof Hook										
	a	b	c	d	e	f	g	h	i	
mm	45	110	115	80	150	35	5	6	30	PU: 20

HSL: Extra-strong arm for regions with the highest snow and wind loads.



101005-024 Rapid2+ Pro Max HSL Roof Hook										
	a	b	c	d	e	f	g	h	i	
mm	45	132	114	80	150	35	6	8	30	PU: 10

Max HSL: Long, extra-strong arm for regions with the highest snow and wind loads.





1 HOOK IN

This image shows a silver metal bracket with a long, curved arm. The bracket is being positioned over a wooden beam. A yellow arrow indicates the direction of movement, showing the bracket being lowered into a slot in the wood. The background shows a corrugated metal roof.



2 CLICK IN

This image shows the same metal bracket now fully inserted into the wooden beam. A yellow arrow points to the point of contact, and the word "CLICK" is written in yellow, indicating the sound or action of the bracket locking into place. The background shows the same corrugated metal roof.

ALUMINUM ROOF HOOKS

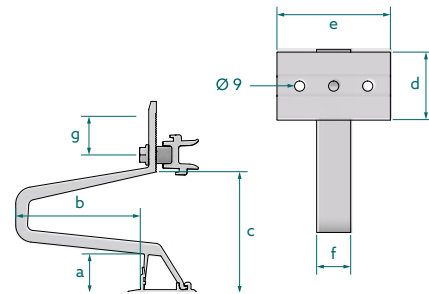
TILED ROOF



ECO-A & RAPID-A

LIGHT, STURDY, QUICK MOUNTING

- Roof hook material: Aluminum
- Arm clicks freely into the baseplate
- Fastens with just one screw



100020-100 Eco-A 45 Max Roof Hook						
	a	b	c	d	e	f
mm	45	110	116	60	100	30

PU: 20

EcoA Max: Cost-efficient roof hook for higher snow loads (without multi-adapter).



101020-220 Rapid-A 35 Pro Max Roof Hook						
	a	b	c	d	e	f
mm	35	110	107	60	100	30

PU: 30

RapidA Max: With pre-assembled multi-adapter for higher snow loads.



101020-120 Rapid-A Pro 45 Max Roof Hook						
	a	b	c	d	e	f
mm	45	110	116	60	100	30

PU: 30

RapidA Max: With pre-assembled multi-adapter for higher snow loads.



101024-120 Rapid-A 45 Pro Universal Max Roof Hook						
	a	b	c	d	e	f
mm	45	110	116	60	100	30

PU: 20

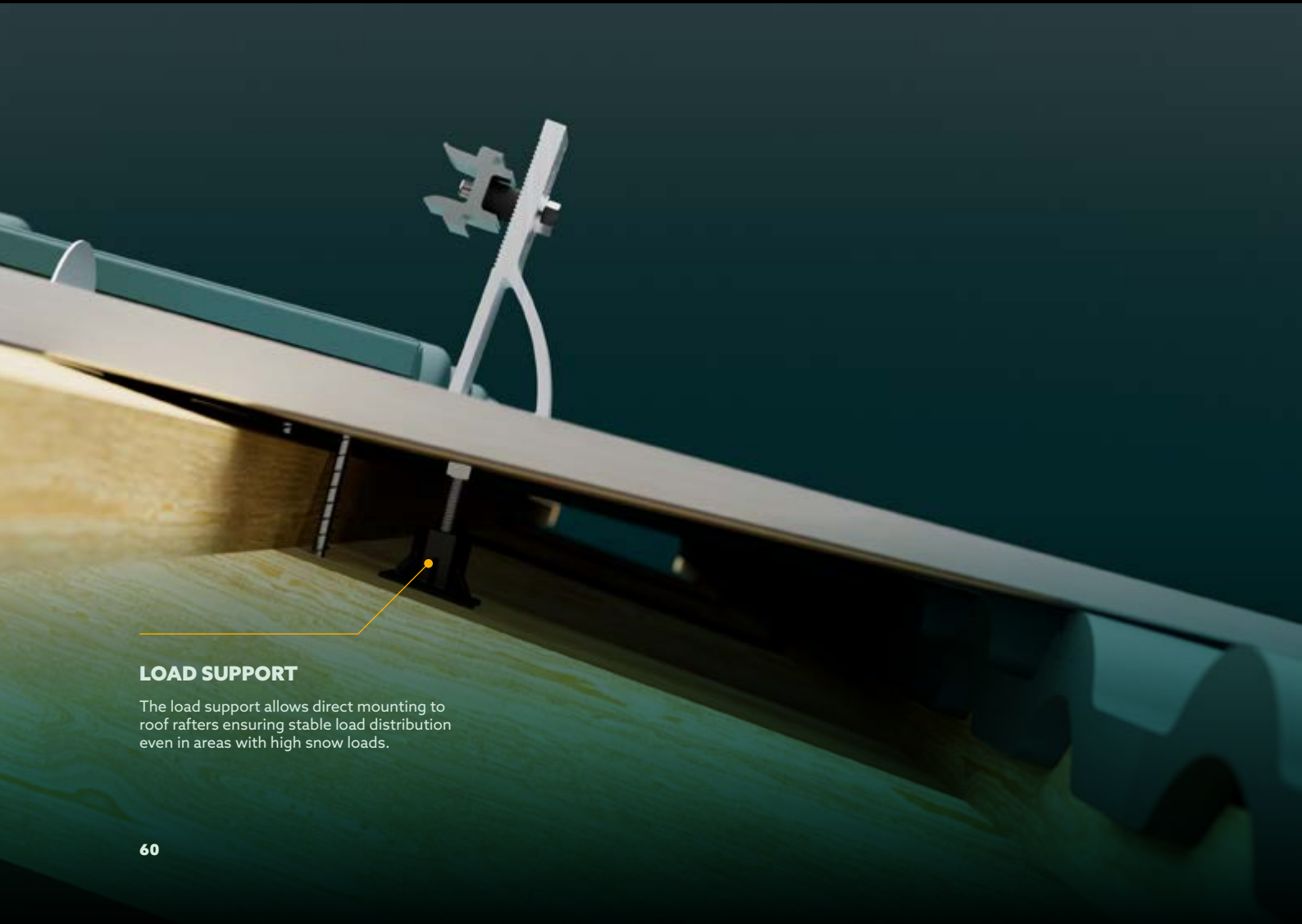
RapidA Universal Max: Withstands higher snow loads and allows for vertical rail mounting.





SHEET METAL REPLACEMENT TILE

Extensive selection of sheet metal replacement tiles for a wide range of roof types with guide rails for positioning the roof hook

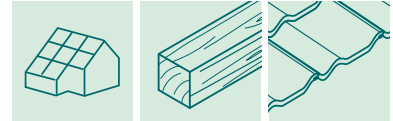


LOAD SUPPORT

The load support allows direct mounting to roof rafters ensuring stable load distribution even in areas with high snow loads.

ROOF HOOK AND REPLACEMENT SHEET METAL TILE SETS

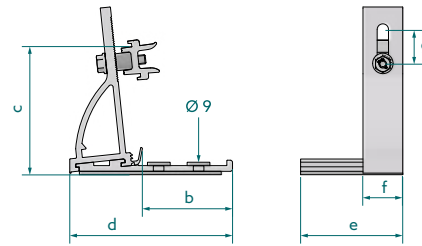
TILED ROOF



ALU-TILE SET

ROOF HOOK SET + SHEET METAL REPLACEMENT TILE TO REPLACES INDIVIDUAL TILES

- Materials: Aluminum roof hook, EPDM screw seal, plastic load support with A2 stainless steel screws
- Suitable for high snow loads
- Set comprises roof hook, screw seal, and load support
- Suitable for vertical or horizontal rail mounting



103006-020 Alu-Tile Pro Roof Hook Set							
	a	b	c	d	e	f	g
mm	-	80	113	144	90	35	30

PU: 10



SHEET METAL REPLACEMENT TILE

Tile	Article no.	PU: 10
BRAAS		
Frankfurter Pfanne	103005-003	
Taunuspfanne	103005-011	
Harzer Pfanne	103005-022	
Tegalit	103005-025	
Topas 13V	103005-067	
ERLUS		
Falzziegel	103005-002	
Großfalzziegel	103005-007	
Großfalzziegel XXL	103005-010	
E 58 (not for E 58 S / SL / RS / Max / Plus ...)	103005-015	
Forma	103005-024	
Linea	103005-049	
Reformpfanne XXL	103005-057	
ETERNIT		
Heidelberger	103005-006	
CREATON (PREVIOUSLY MEINDL)		
Rustico	103005-004	
Meindl MZ3	103005-184	
Meindl MZ3 Dorfen NEW	103005-112 **	

** Item discontinued. Available while stocks last.

PLEASE NOTE:
Additional tile types on request.



Braas Frankfurter Pfanne



Braas Tegalit



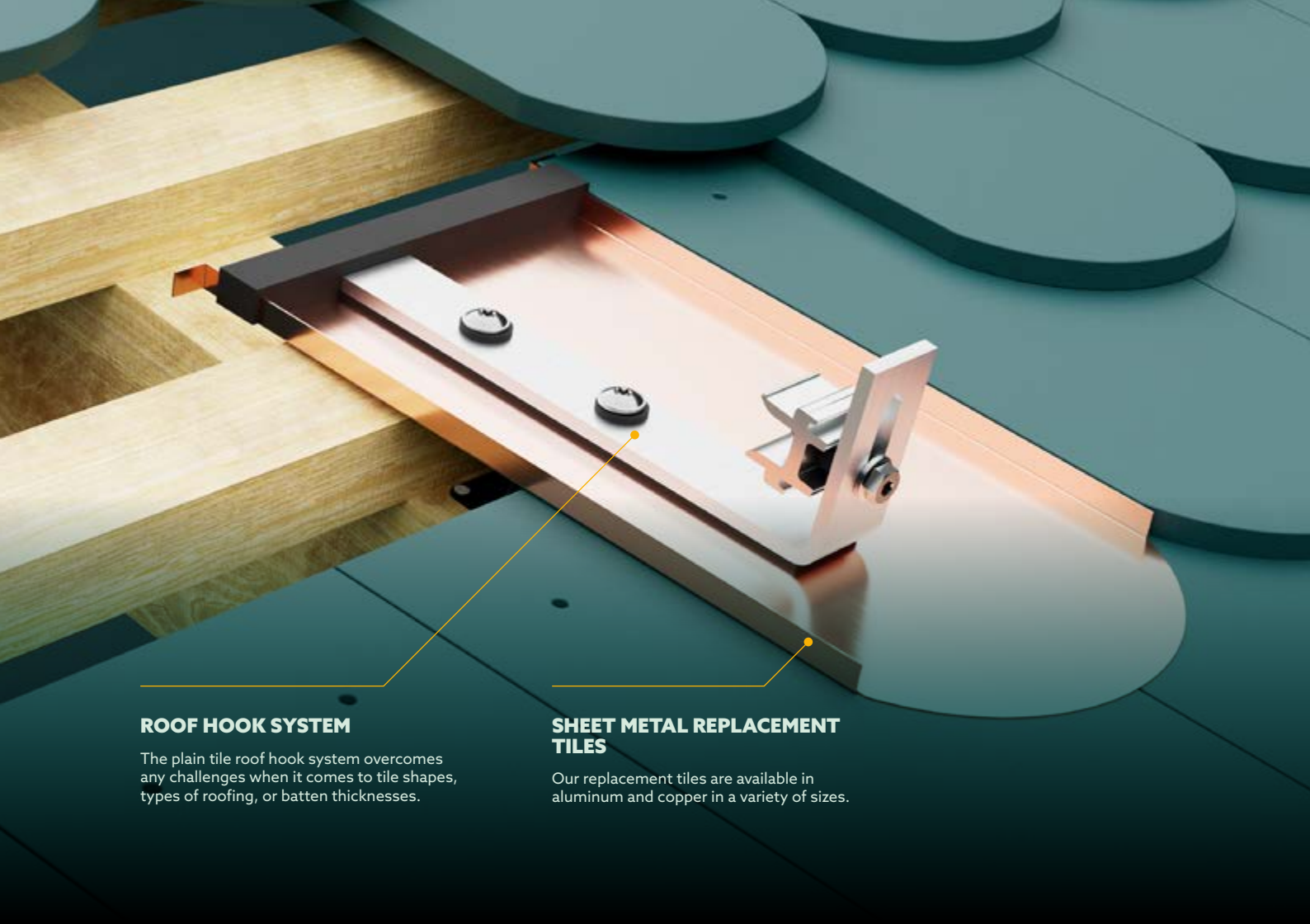
Erlus Falzziegel



Erlus Forma



Creaton Meindl MZ3

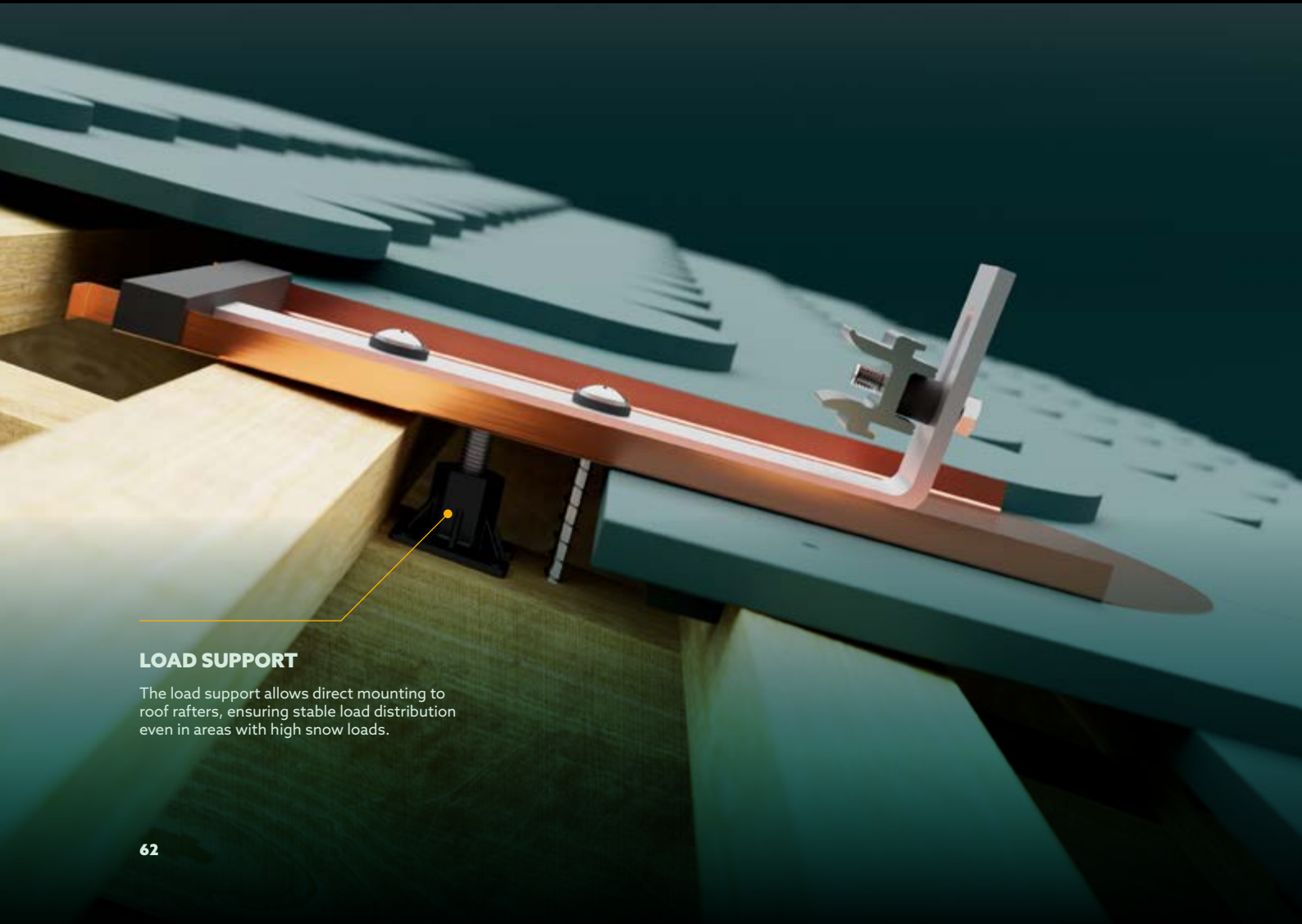


ROOF HOOK SYSTEM

The plain tile roof hook system overcomes any challenges when it comes to tile shapes, types of roofing, or batten thicknesses.

SHEET METAL REPLACEMENT TILES

Our replacement tiles are available in aluminum and copper in a variety of sizes.

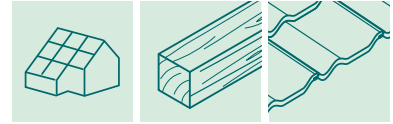


LOAD SUPPORT

The load support allows direct mounting to roof rafters, ensuring stable load distribution even in areas with high snow loads.

PLAIN TILE ROOF HOOK SETS

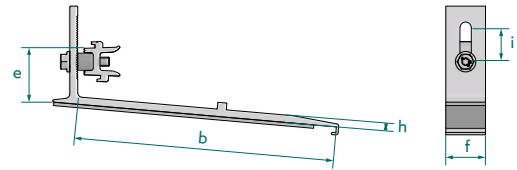
TILED ROOF



PLAIN TILE SET

ROOF HOOK SET + SHEET METAL REPLACEMENT TILE TO REPLACE INDIVIDUAL PLAIN TILES

- Materials: Aluminum or stainless steel roof hook, EPDM screw seal, plastic load support with A2 stainless steel screws



109019-020	Plain tile roof hook for Rapid Alu									PU: 20
	a	b	c	d	e	f	g	h	i	
mm	-	228	-	-	48	35	-	7	30	



109016-007	Plain Tile for Rapid Alu 180 x 380 - sheet metal replacement tile									PU: 20
109016-009	Plain Tile for Rapid Alu 170 x 380 - sheet metal replacement tile									PU: 20



109019-022	Plain tile roof hook for Rapid Alu 190 x 400									PU: 20
	a	b	c	d	e	f	g	h	i	
mm	-	250	-	-	50	35	-	6	30	



109016-010	Plain Tile for Rapid Alu 190 x 400 - sheet metal replacement tile									PU: 20
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109019-021	Plain tile roof hook for Rapid									PU: 20
	a	b	c	d	e	f	g	h	i	
mm	-	232	-	-	50	35	-	6	30	



109016-008	Plain Tile for Rapid Cu 180 x 380 - sheet metal replacement tile									PU: 20
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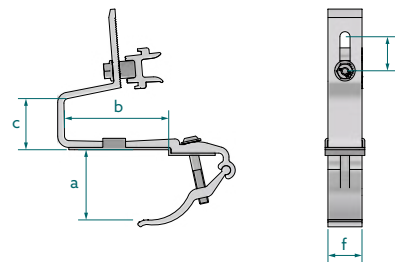


ROOF HOOK SPECIAL DESIGNS

TILED ROOFS

ROOF HOOKS THAT CLAMP ONTO ROOF BATTENS

- Materials: Aluminum roof hook, EPDM moulding
- Quick installation by clamping to the roof battens
- Tiles protected by the pre-assembled EPDM components



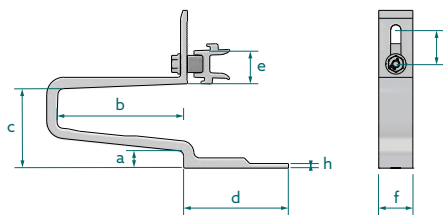
109019-025	Pro-N Roof Hook								PU: 30
	a	b	c	d	e	f	g	h	i
mm	35-60	90	-	-	-	30	-	-	30

PLEASE NOTE: The Pro-N Roof Hook is currently available only in Belgium, France, the Netherlands, and the United Kingdom.



ROOF HOOK FOR ROOFS WITH INSULATION ELEMENTS

- Material: Aluminum roof hook

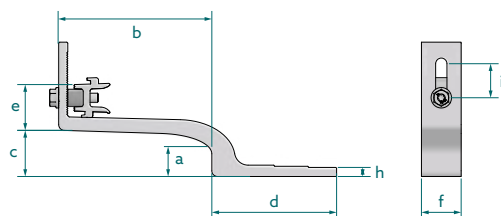


101028-020	Rapid-A Pro 2L Roof Hook								PU: 30
	a	b	c	d	e	f	g	h	i
mm	15	110	70	92	30	30	-	4	30



ROOF HOOK FOR SHINGLE ROOFS

- Material: Aluminum roof hook, PE soft
- Foam pad (UV-resistant)
- Suitable for many shingle types
- Cover shingle with flexible support strip
- Direct load transfer onto the roof rafters
- Shingle coverage up to 125 mm



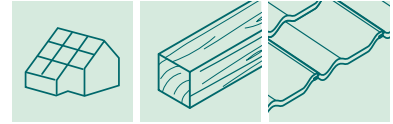
109019-024	Rapid2+ Pro Slate125 Roof Hook								PU: 20
	a	b	c	d	e	f	g	h	i
mm	28	135	41	110	41	35	-	8	30



109017-010	Rapid2+ Pro Slate125 Roof Hook Replacement Shingle								PU: 20
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ROOF HOOK ACCESSORIES

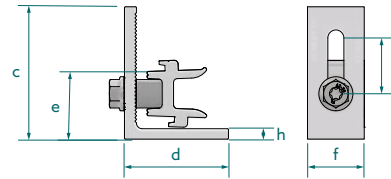
TILED ROOF



RAPID PRO L

HEIGHT ADJUSTABLE L-BRACKET

- Material: Aluminum bracket
- Various applications



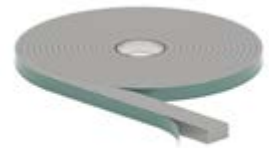
119026-122	Rapid Pro L-Bracket								PU: 100
	a	b	c	d	e	f	g	h	i
mm	-	-	70	55	36	30	-	5.5	29



973000-075	Spacer plate roof hook 2.5 / 5 mm	PU: 100
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973000-683	Roof Hook Sealing Tape (grey) TP600 10 m	PU: 15
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109008-003	RapFix - Eco Roof Hook Adapter	PU: 50
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Compatible with Eco roof hooks with elongated holes.



109008-023	RapFix Pro - Eco Roof Hook Adapter	PU: 50
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Compatible with Eco roof hooks with elongated holes.



925120-002	Plastic Spacer Sleeve 1 m
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Spacer for rafter insulation when using extra-long fastening screws. Internal diameter 15 mm, external diameter 35 mm. Plastic version prevents cold bridges. Cut to desired length.



109010-000	Iso07 Bracket	PU: 20
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Combines with roof hook, spacer sleeve, and fastening screw to form Iso07 System.



STANDING SEAM ROOF

CLAMP DIRECTLY ONTO THE SEAM.







STANDING SEAM CLAMP

Our standing seam clamps ensure stable fastening to all common standing seam roofs without the need for roof penetration or additional screws.

16

SEAM CLAMPS FOR ALL TYPES OF SEAM ROOF.

RELIABLE SOLUTIONS FOR INSTALLING ON
ALL TYPES OF STANDING SEAM ROOF.

Our wide range of seam clamps has been developed to meet the requirements of all standard seam roof manufacturers, providing you with a universal solution.

- + Quick installation
- + Variable configurations
- + Cost-effective
- + Alternative clamping solutions for specific projects available on request

COMBINATIONS

STANDING SEAM ROOF

1

SEAM CLAMP

Page 72

PROLINE SEAM CLAMPS

503 / 504 / 510 / 520 /
522 / 524



VA SEAM CLAMPS

503 / 525



CLASSIC SEAM CLAMPS

503 / 504 / 510 / 520 /
522 / 524



2

CONNECTOR

Page 72/132

RAPID CONNECT 90



CROSS CONNECTOR PRO

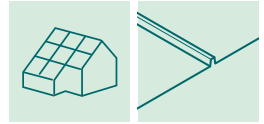


SQUARE HEAD BOLT



CROSS CONNECTOR





3 RAIL

Page 112

4 CLAMPS

Page 124



PROLINE SEAM CLAMPS

STANDING SEAM ROOF

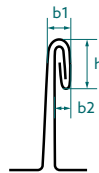
PROLINE SEAM CLAMPS

CLAMP DIRECTLY ONTO THE SEAM

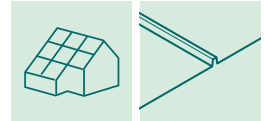
- Materials: Aluminum or stainless steel (Seam Clamp 503 VA and 525 VA)



112001-000	Seam Clamp 503 VA	PU: 50
Compatible with Classic and ProLine.		
112001-105	Seam Clamp Pro 503	PU: 50
112001-110	Seam Clamp Pro 504	PU: 50
Especially suitable for zinc titanium standing seam sheet metal roofs.		
Seam dimensions (dimension drawing): h = 11–13 mm, b1 = 4–6 mm, b2 = max. 3 mm		
The Pro 504 seam clamp was developed together with Rheinzink for use on their double standing seam roofs made of zinc titanium sheets.		
112001-210	Seam Clamp Pro 504-F	PU: 50
Compatible with double standing seam roofs common in France.		
Seam dimensions: h = 10–12mm, b1 = 4–6mm, b2 = max. 3mm		
See diagram above (112001-110 Seam Clamp Pro 504).		
112002-103	Seam Clamp Pro 510	PU: 50
Compatible with round seam roofs from Kalzip*, Bemo* or similar.		
112003-103	Seam Clamp Pro 520	PU: 50
Compatible with Zambelli RibRoof* 465 or similar.		



* All trademarks mentioned here are the property of their respective owners.



112004-102 Seam Clamp Pro 522

PU: 50

Compatible with Zambelli RibRoof* 500 or similar.



112006-102 Seam Clamp Pro 524

PU: 50

Compatible with Fischer KlipTec* or similar.



112007-000 Seam Clamp 525 VA

PU: 50

Compatible with Domico Domitec* or similar.
Compatible with Classic and ProLine.



112012-112 Universal Seam Clamp Pro 562

PU: 50

PLEASE NOTE: The tightening torque must be limited to prevent deformed seams and to allow for thermal expansion. Rail lengths for zinc titanium, in particular, must be limited to 3 m.

PLEASE NOTE: The compatibility, load-bearing capacity, and ability to install on existing roofs must always be checked on site. Material compatibility between components must also be taken into account.



CONNECTORS FOR PRO SEAM CLAMPS

SUITABLE FOR CONNECTING TO MODULE SUPPORT RAILS

— Material: Aluminum connector or die-cast zinc (RapidConnect90)



129063-002 RapidConnect90

PU: 100



129063-020 Rapid Cross Connector 90 Pro

PU: 150

Pre-assembled, compatible with ProLine rail (not for SoloPro).



109008-024 RapFix Pro - Flat Connector

PU: 50

Combine with standing seam clamps from other suppliers.



CLASSIC SEAM CLAMPS

STANDING SEAM ROOF

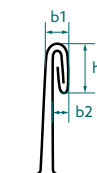
CLASSIC SEAM CLAMPS

CLAMP DIRECTLY ONTO THE SEAM

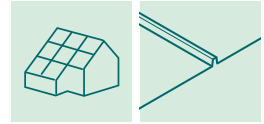
— Material: Aluminum or stainless steel (Seam Clamp 503 VA and 525 VA)



112001-000	Seam Clamp 503 VA	PU: 50
Compatible with Classic and ProLine.		
112001-005	Rapid Seam Clamp 503	PU: 50
112001-010	Seam Clamp 504	PU: 50
Especially suitable for zinc titanium standing seam sheet metal roofs.		
Seam dimensions (dimension drawing): h = 11–13 mm, b1 = 4–6 mm, b2 = max. 3 mm		
The 504 seam clamp was developed together with Rheinzink for use on their double standing seam roofs made of zinc titanium sheets.		
112002-003	Rapid Seam Clamp 510	PU: 50
Compatible with round seam roofs from Kalzip®, Bemo® or similar.		
112003-003	Rapid Seam Clamp 520	PU: 50
Compatible with Zambelli RibRoof® 465 or similar.		
112004-002	Rapid 522 Seam Clamp	PU: 50
Compatible with Zambelli RibRoof® 500 or similar.		



* All trademarks mentioned here are the property of their respective owners.



112006-002 Rapid Seam Clamp 524

PU: 50

Compatible with Fischer KlipTec* or similar.



112007-000 Seam Clamp 525 VA

PU: 50

Compatible with Domico Domitec* or similar.
Compatible with Classic and ProLine.



PLEASE NOTE: The tightening torque must be limited to prevent deformed seams and to allow for thermal expansion. Rail lengths for zinc titanium, in particular, must not exceed 3 m.

PLEASE NOTE: The compatibility, load-bearing capacity, and ability to install on existing roofs must always be checked on site. Material compatibility between components must also be taken into account.

CONNECTORS FOR CLASSIC SEAM CLAMPS

SUITABLE FOR CONNECTING MODULE SUPPORT RAILS

— Material: Aluminum connector



129063-000 Rapid Cross Connector

PU: 200

Pre-assembled, compatible with KlickNut M8 rail channel.



109008-004 RapFix - Flat Connector

PU: 50

Combine with standing seam clamps from other suppliers.



TRAPEZOIDAL ROOF

- DIRECT FASTENING TO
THE ROOF CLADDING
- FASTENING TO THE
SUBSTRUCTURE







DIRECT FASTENING

Our fasteners mount directly to the roof cladding, independent of the substructure. Installation requires no pre-drilling or additional cladding; simply screw in directly from above—quick, easy, and permanently stable.

EPDM RUBBER SEAL

The EPDM rubber strip protects the roof cladding and ensures it remains completely waterproof.

4

DIRECT FASTENERS.

SOLUTIONS FOR MOUNTING TO THE CLADDING OF TRAPEZOIDAL AND SANDWICH ROOFS.

Self-supporting trapezoidal sheet metal roofs don't always allow the fastening of mounting systems to the substructure, and often have sufficient load-bearing capacity for fastening to the roof cladding. Schletter direct fasteners offer unrivalled, quick, and simple fastening solutions.

- + Modules mountable in landscape or portrait
- + Fastens to the sides of the trapezoidal ribs to ensure optimal load distribution
- + No need to fasten to the substructure

RELIABLE FASTENING TO THE ROOF CLADDING

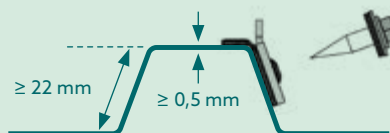
1

Direct fasteners always work in pairs and must be installed opposing one another on the side walls of the trapezoidal ribs.



2

The height of the rib height must be ≥ 22 mm and the sheet thickness ≥ 0.5 mm.



3

Never install on overlapping sheet edges.



COMBINATIONS

TRAPEZOIDAL AND SANDWICH ROOF

1

DIRECT FASTENER

Page 82

CLAMPFIT PRO



ECORAPID



SINGLEFIX PRO



CLAMPFIT CLASSIC



2

RAIL

Page 112

FIX-Z PRO + CONNECTOR



MOUNTING RAIL SOLOPRO + CONNECTOR



MOUNTING RAIL PRO 35 / 50 / 70 / 100 + CONNECTOR

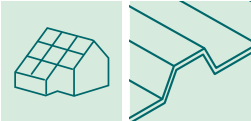


MOUNTING RAIL 450 MM ECOLIGHT / PRO35 / PRO100 / FIXZ-7 / FIXZ-15



MOUNTING RAIL ECO / SOLO / SOLOPLUS / SOLOXL + CONNECTOR

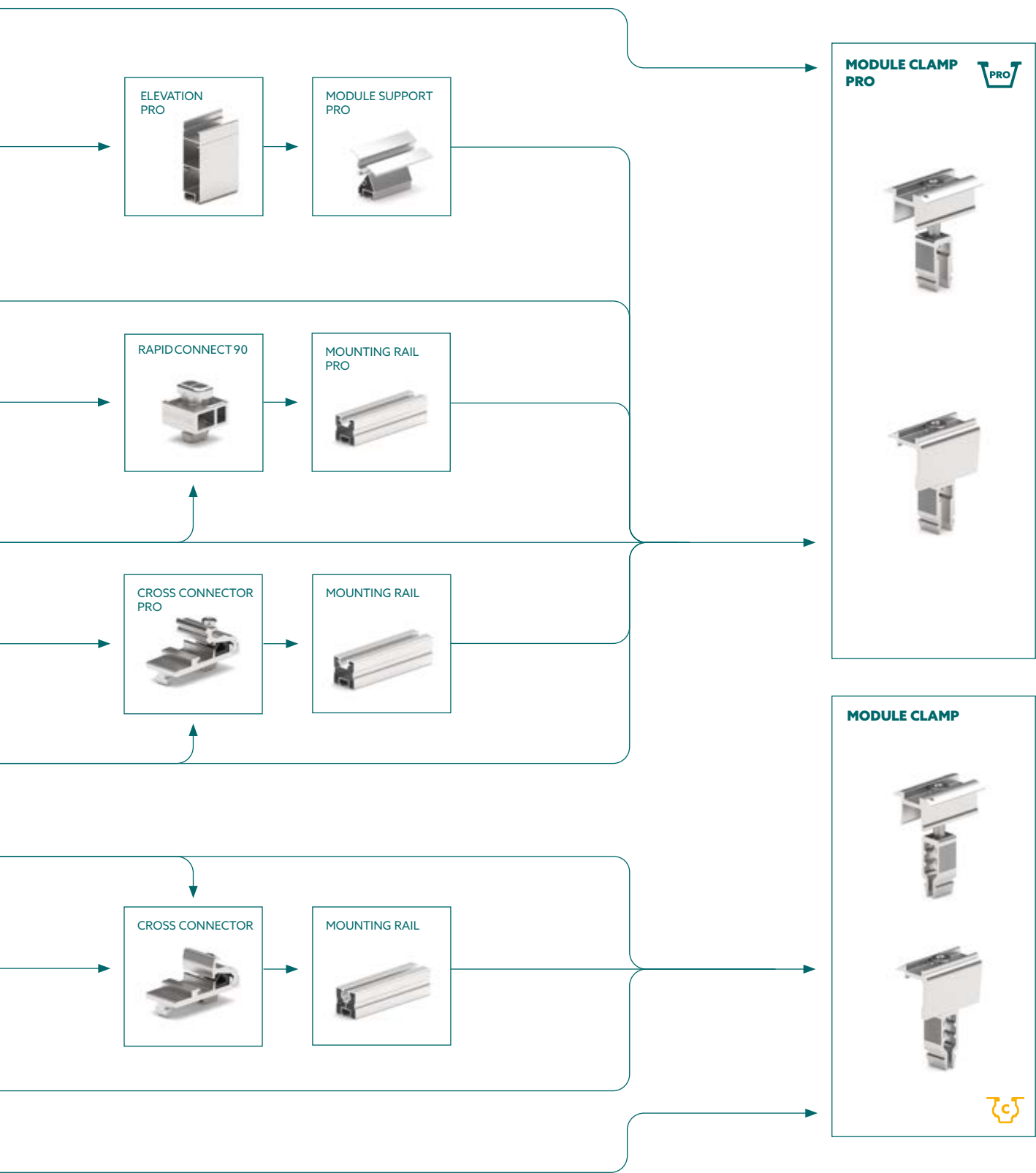




3 CONNECTOR

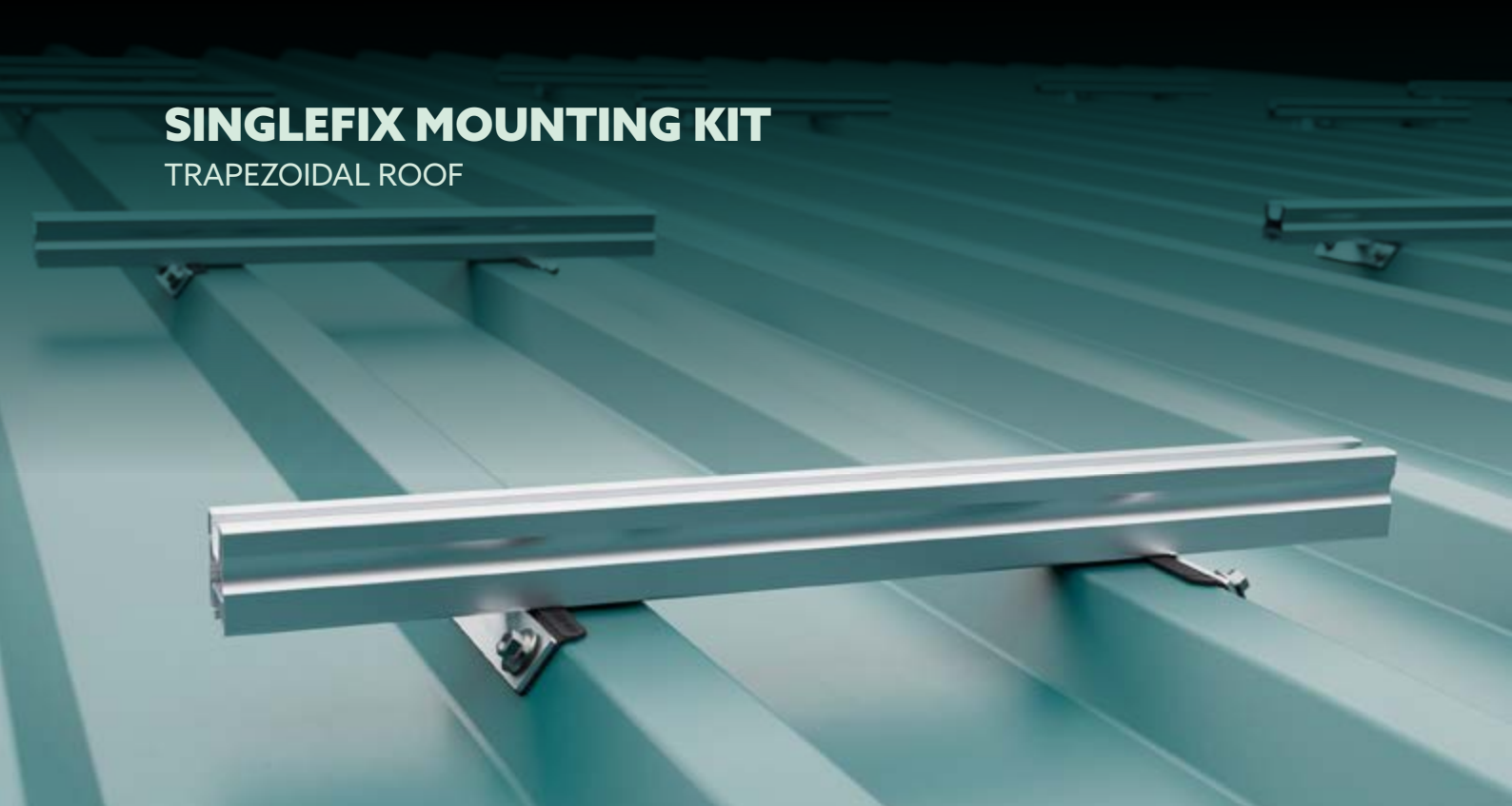
4 CLAMP

Page 124



SINGLEFIX MOUNTING KIT

TRAPEZOIDAL ROOF



SINGLEFIX

FASTENER FOR TRAPEZOIDAL STEEL & ALUMINUM SHEETS FROM 0.5 MM

- Materials: Aluminum and EPDM rubber
- The SingleFix Mounting Kit can be configured and ordered from individual components. A complete kit requires the following components:
2x SingleFix Pro, 4x thin sheet metal screws, and 1x module support rail

113009-003 SingleFix Pro

PU: 100

Suitable for trapezoidal rib heights from 22 mm.
Two thin sheet metal screws per SingleFix Pro piece are required.



MODULE SUPPORT RAILS

450 MM RAILS COMBINED WITH SINGLEFIX PRO



120020-00450	Module Support Rail Pro35 450 mm	PU: 50
120023-00450	Module Support Rail Pro100 450 mm	PU: 35

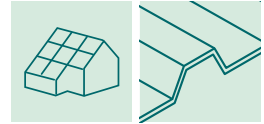


120011-00450	Module Support Rail EcoLight 450 mm	PU: 50
121010-202	FixZ-7 System Rail18 lower 450 mm	PU: 25
121001-202	FixZ-7 System Rail18 upper 450 mm	PU: 25
121009-202	FixZ-15 System Rail18 lower 450 mm	PU: 25
121008-202	FixZ-15 System Rail18 upper 450 mm	PU: 25



DIRECT FASTENERS

TRAPEZOIDAL ROOF



CLAMPFIT

DIRECT FASTENING TO TRAPEZOIDAL SHEET IN LANDSCAPE

- Materials: Aluminum and EPDM rubber
- Suitable for steel and aluminum sheets from 0.5 mm



130004-300 ClampFit Pro

PU: 100

2 thin sheet metal screws per ClampFit Pro piece are required.



130004-200 ClampFit

PU: 100

2 thin sheet metal screws per ClampFit piece are required.



ECORAPID

LANDSCAPE MODULE MOUNTING WITHOUT MODULE CLAMPS

- Materials: Aluminum and EPDM rubber

113014-000 EcoRapid

PU: 200

Fasten directly to module frame, for trapezoidal rib heights from 22 mm.
EcoRapid on array edges: 2 screws. EcoRapid in array middle area: 1 screw.



THIN SHEET METAL SCREWS

COMBINE WITH SINGLEFIX PRO, CLAMPFIT / CLAMPFIT PRO, OR ECORAPID

- Materials: Bi-metal screw with EPDM rubber washer

943000-700	Thin Sheet Metal Screw 5.5 x 25 A2 with rubber washer ETA, ETN, MCS012 and German building regulations approved. Use in DE, FR, and UK. Only use on approved sandwich elements.	PU: 100
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943000-360	Thin Sheet Metal Screw 6.0 x 25 A2 with rubber washer ETA, ETN, MCS012 and German building regulations approved. Use in DE, FR, and UK.	PU: 100
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943001-232	Thin Sheet Metal Screw 6.0 x 22 A2 with rubber washer Use outside DE, FR, and UK.	PU: 100
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CROSS CONNECTOR

The cross connector is suitable for cross-rail PV installations using Classic or ProLine rails. Fastening with just one screw from above enables particularly easy mounting.

UNIVERSAL ADAPTER

Versatile, quick, and easy to assemble, with high load-bearing capacity and universal adaptation options.

UNIVERSAL CALOTTE

Specially designed for secure mounting on trapezoidal roofs.

5

WAYS TO FASTEN TO WOODEN OR STEEL SUBSTRUCTURES.

EXTRAORDINARY STRENGTH FOR ALL
TRAPEZOIDAL AND SANDWICH ROOFS.

Fastening to the substructure is useful in cases where the roof cladding lacks sufficient or reliable load-bearing capacity.

The system is fastened to the roof substructure with hanger bolts or self-tapping screws which penetrate the roof cladding. Particular attention is paid to completely re-sealing the penetration.

Our hanger bolts and self-tapping screws offer safe and secure module mounting, no matter the type of cladding. Various compatible adapters can be used to attach the rails for a tailored configuration.

- + Excellent stability on pitched, trapezoidal, or level roof surfaces
- + Wide range of options

COMBINATIONS

TRAPEZOIDAL / SANDWICH ROOF

1

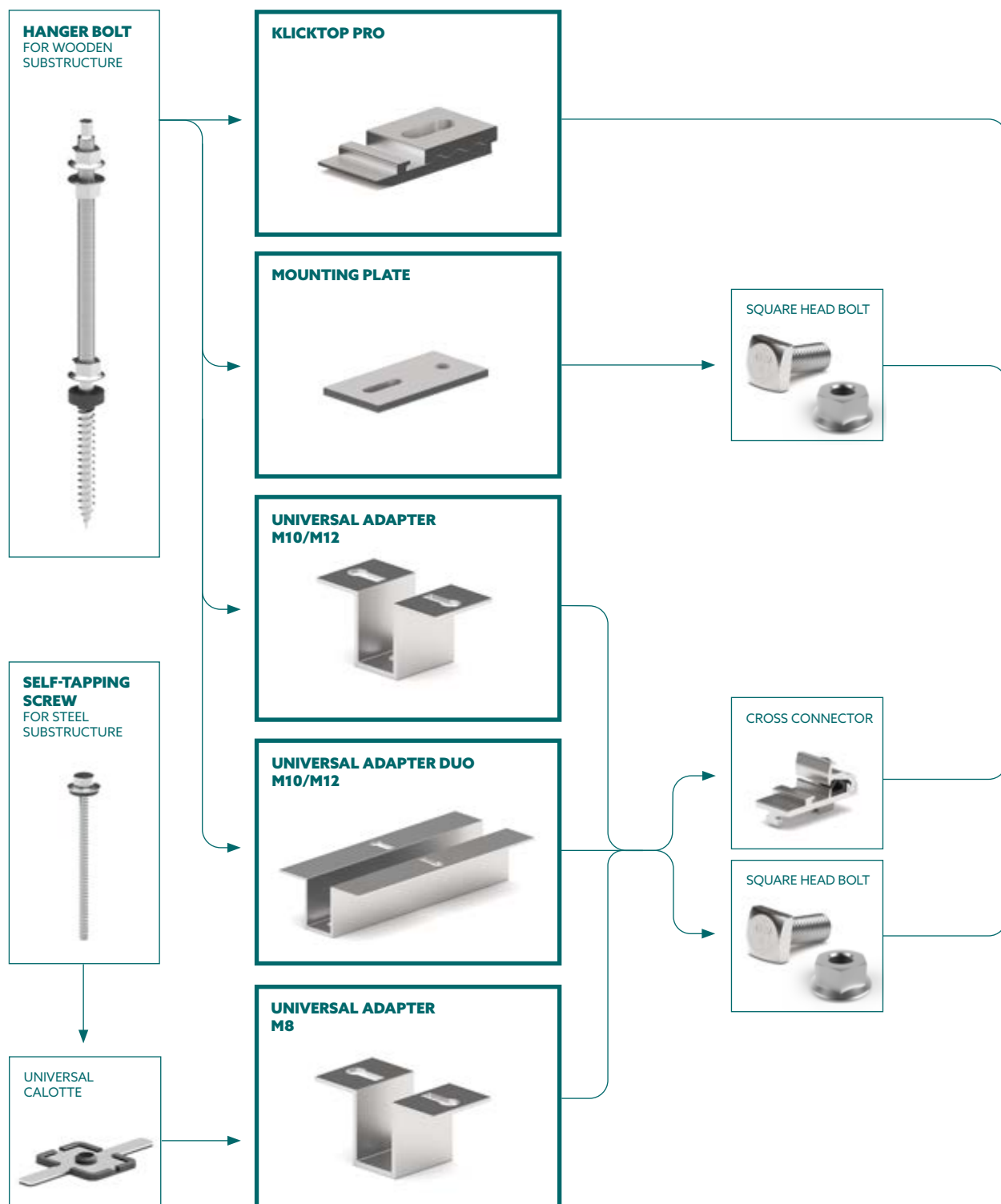
ADAPTER FASTENED TO SUBSTRUCTURE

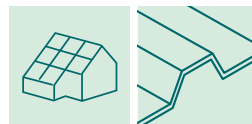
Page 89

2

CONNECTOR

Page 132





3

RAIL

Page 112

MOUNTING RAIL PRO
35 / 50 / 70 / 100
+ CONNECTOR



FIX-Z PRO
+ CONNECTOR



**ELEVATION
PRO**



**MODULE SUPPORT
PRO**



MOUNTING RAIL
ECO / SOLO / SOLOPLUS
+ CONNECTOR



4

CLAMP

Page 124

**MODULE CLAMP
PRO**



MODULE CLAMP



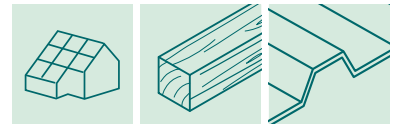


HANGER BOLT

Our hanger bolts ensure a secure hold when mounting to wooden substructures clad with trapezoidal or corrugated sheets.

FASTENING TO WOODEN SUBSTRUCTURE

TRAPEZOIDAL ROOF



MOUNTING PLATE FOR HANGER BOLT

- Material: Aluminum
- Dimensions: 120 x 60 x 6 mm

119002-000 Mounting Plate for Hanger Bolt M10 / M12

PU: 50

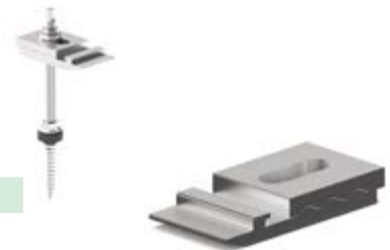


KLICKTOP PRO ADAPTER

- Material: Aluminum

119001-020 KlickTop Pro Adapter for Hanger Bolt

PU: 50



UNIVERSAL ADAPTER DUO

- Material: Aluminum

119033-004 Universal Adapter Duo M10 / M12

PU: 50



UNIVERSAL ADAPTER UNO

- Material: Aluminum
- Mounting rails can be adapted with cross connectors as desired

119033-001 Universal Adapter Uno M10 / M12

PU: 50



HANGER BOLT SETS

COMBINE WITH MOUNTING PLATE, KLICKTOP, OR UNIVERSAL ADAPTER

- Materials: A4 stainless steel nuts and bolts, EPDM vulcanised (UV-resistant) rubber seals
- Pre-assembled with rubber washer and 3 flange nuts

110010-200**	Hanger Bolt Set 10 x 200 mounted	PU: 50
110210-200	Hanger Bolt Set 10 x 200 mounted	PU: 50
110012-200**	Hanger Bolt Set 12 x 200 mounted	PU: 50
110212-200	Hanger Bolt Set 12 x 200 mounted	PU: 50
110012-300**	Hanger Bolt Set 12 x 300 mounted	PU: 50
110212-300	Hanger Bolt Set 12 x 300 mounted	PU: 50

** Item discontinued. Available while stocks last.



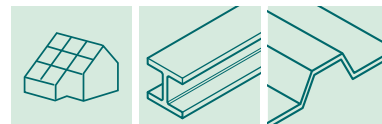


SELF-TAPPING SCREWS

Our self-tapping screws ensure a secure hold when mounting on steel substructures clad with trapezoidal or sandwich sheets.

FASTENING TO STEEL SUBSTRUCTURE

TRAPEZOIDAL ROOF



UNIVERSAL ADAPTER

FASTENING TO TRAPEZOIDAL OR SANDWICH ROOFS

- Materials: Aluminum and EPDM calotte
- Mounting rails can be adapted with cross connectors as desired

119033-002	Universal Adapter Uno M8	PU: 50
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119005-001	Universal Calotte with EPDM seal	PU: 50
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SELF-TAPPING SCREW

COMBINE WITH UNIVERSAL ADAPTER FASTENING SYSTEMS TO FASTEN TO STEEL PURLINS

- Material: Stainless steel with EPDM rubber washer

943763-064**	6.3 x 64	PU: 100
943763-115**	6.3 x 115	PU: 100
943763-200**	6.3 x 200	PU: 50

** Item discontinued. Available while stocks last.

943718-064	8 x 64	PU: 100
943718-125	8 x 125	PU: 50
943718-150	8 x 150	PU: 50
943718-200	8 x 200	PU: 50



PLEASE NOTE: Illustrations and thread lengths may vary.

CORRUGATED ROOF

FASTENING TO THE SUBSTRUCTURE.







KLICKTOP PRO

Our versatile mounting adapter for hanger bolts is compatible with all Schletter mounting rails and allows for easy and efficient installation.

By rotating the upper mounting plate, it can be adapted to either Classic or ProLine rails.

HANGER BOLT

Our hanger bolts ensure a secure hold when mounting to wooden substructures clad with corrugated sheets.

5

WAYS TO FASTEN TO WOODEN OR STEEL SUBSTRUCTURES.

RELIABLE MOUNTING SOLUTIONS FOR CORRUGATED ROOFS.

Fastening to the substructure is the only option for corrugated roofs. With substructures typically identical to those supporting trapezoidal roofs, installers have hanger bolts for wooden roof trusses at their disposal.

When fastening to a steel substructure, the calotte cannot be used. Instead, a sealing cap is used to keep each penetration waterproof. To ensure the corrugations don't deform over time or at installation, spacer sleeves are inserted between the purlin and the corrugated sheet.

- + Stable fastening, no matter the material of the corrugated roof
- + Suitable for all common variants of corrugated roof sheet

COMBINATIONS

CORRUGATED SHEET METAL /
FIBRE CEMENT

1

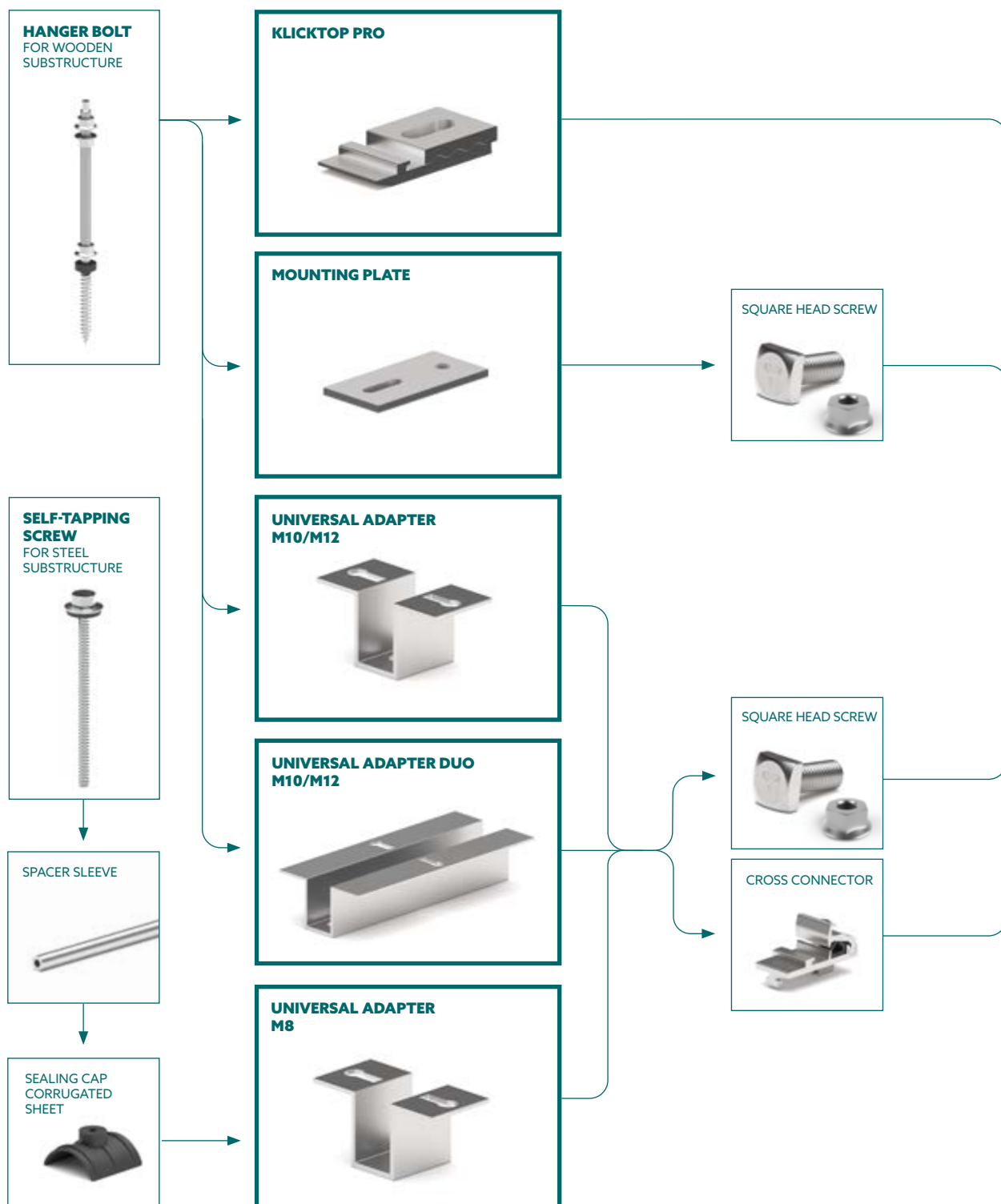
ADAPTER FASTENED TO SUBSTRUCTURE

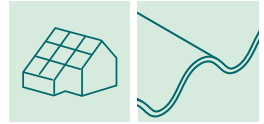
Page 98

2

CONNECTOR

Page 132





3 RAIL

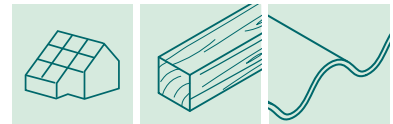
Page 112





FASTENING TO WOODEN SUBSTRUCTURE

CORRUGATED ROOF



MOUNTING PLATE FOR HANGER BOLT

- Material: Aluminum
- Dimensions: 120 x 60 x 6 mm

119002-000 Mounting Plate for Hanger Bolt M10 / M12

PU: 50

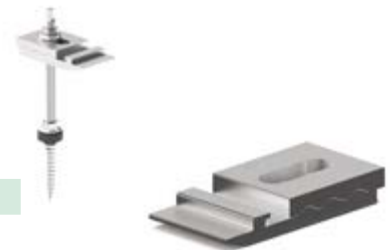


KLICKTOP PRO ADAPTER

- Material: Aluminum

119001-020 KlickTop Pro Adapter for Hanger Bolt

PU: 50



UNIVERSAL ADAPTER DUO

- Material: Aluminum

119033-004 Universal Adapter Duo M10 / M12

PU: 50



UNIVERSAL ADAPTER UNO

- Material: Aluminum
- Mounting rails can be adapted with cross connectors as desired

119033-001 Universal Adapter Uno M10 / M12

PU: 50



HANGER BOLT SETS

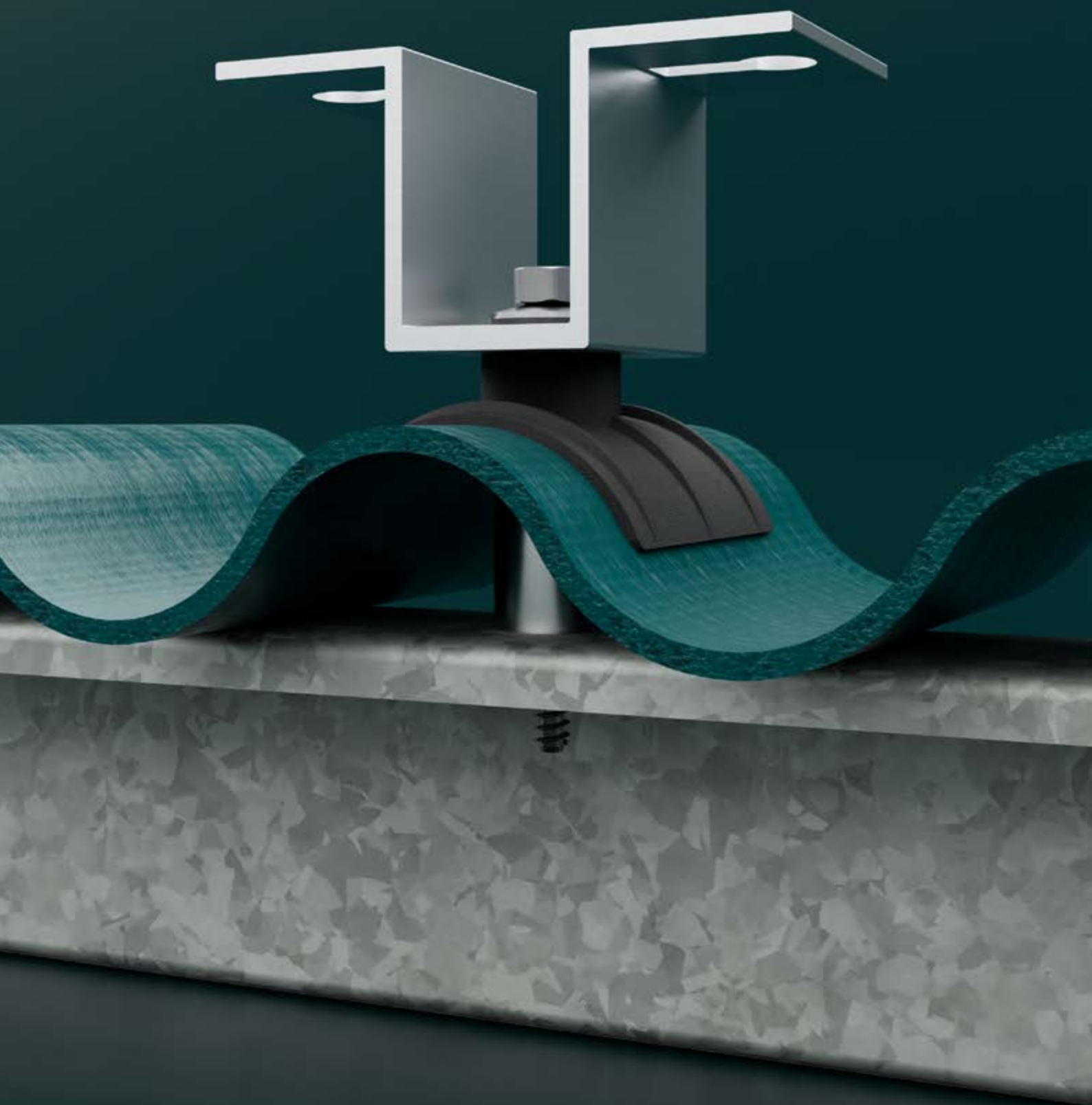
COMBINE WITH MOUNTING PLATE, KLICKTOP, OR UNIVERSAL ADAPTER

- Materials: A4 stainless steel nuts and bolts, EPDM vulcanised (UV-resistant) rubber seals
- Pre-assembled with rubber washer and 3 flange nuts

110010-200**	Hanger Bolt Set 10 x 200 mounted	PU: 50
110210-200	Hanger Bolt Set 10 x 200 mounted	PU: 50
110012-200**	Hanger Bolt Set 12 x 200 mounted	PU: 50
110212-200	Hanger Bolt Set 12 x 200 mounted	PU: 50
110012-300**	Hanger Bolt Set 12 x 300 mounted	PU: 50
110212-300	Hanger Bolt Set 12 x 300 mounted	PU: 50

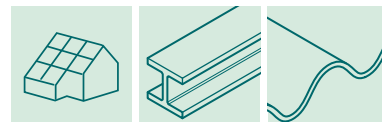
** Item discontinued. Available while stocks last.





FASTENING TO STEEL SUBSTRUCTURE

CORRUGATED ROOF



UNIVERSAL ADAPTER

FASTENING TO CORRUGATED ROOFS

- Material: Aluminum and TPE sealing cap
- Suitable for corrugated fibre cement
- Mounting rails can be adapted with cross connectors as desired

119033-002 Universal Adapter Uno M8

PU: 50

Can also be used as a dowel clamp for special applications, e.g. façades.



119005-000 Sealing Cap Corrugated Sheet 5/6/8

PU: 50

119004-003* Spacer Sleeve Alu 995 x 20

PU: 30

* Required lengths to be measured and cut on site.



SELF-TAPPING SCREWS

COMBINE WITH UNIVERSAL ADAPTER FASTENING SYSTEMS TO FASTEN TO STEEL PURLINS

- Material: Stainless steel with EPDM rubber washer

943763-064** 6.3 x 64

PU: 100

943763-115** 6.3 x 115

PU: 100

943763-200** 6.3 x 200

PU: 50

** Item discontinued. Available while stocks last.

943718-064 8 x 64

PU: 100

943718-125 8 x 125

PU: 50

943718-150 8 x 150

PU: 50

943718-200 8 x 200

PU: 50



PLEASE NOTE: Illustrations and thread lengths may vary.

BITUMEN AND SHEET METAL ROOFS

DIRECT FASTENING TO LOAD-BEARING
ROOF DECKING.





COMBINATIONS

BITUMEN / FLAT SHEET METAL / SHINGLE

1 FASTEN TO DECKING

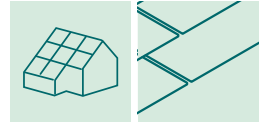
Page 107



2 SEALANT

Page 107





3 RAILS

Page 112

4 CLAMP

Page 124





3

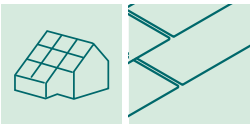
WAYS TO FASTEN TO THE ROOF DECKING.

RELIABLY SEALED WHEN FASTENING
DIRECTLY TO FLAT SURFACES.

Our direct fasteners make installing on pitched roofs with metal or bitumen shingles particularly easy. They can be mounted directly from above into the supporting decking without having to remove shingles. The EPDM seals ensure a dependable and rainproof seal.

FASTENING TO WOODEN DECKING

BITUMEN ROOF AND METAL SHINGLES



FIX T-K

FASTENER FOR TO BITUMEN ROOFS
WITH WOODEN DECKING

— Material: Aluminum fastener



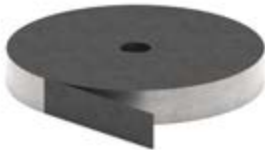
119014-212	Fix T-K Pro	PU: 50
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119014-012	Fix T-K	PU: 50
------------	---------	--------

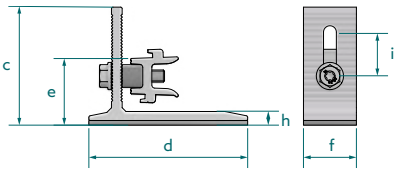


973000-041	EPDM rubber self adhesive 48 mm x 50 m roll
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RAPID 2+ PRO SML METAL SHINGLE ROOF HOOK

— Material: Aluminum roof hook and EPDM rubber



119026-102	Rapid2+ Pro SML Roof Hook									PU: 20
	a	b	c	d	e	f	g	h	i	
mm	-	-	78	105	45	35	-	6	29	



FIXPLAN WITH BITUPLAN ON WOODEN SUBSTRUCTURE

BITUMEN ROOF



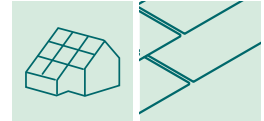
SLATEPLAN ON WOODEN SUBSTRUCTURE

SHINGLE ROOF



FASTENING TO WOODEN SUBSTRUCTURE

BITUMEN AND SHINGLE ROOF



FIXPLAN

SUITABLE FOR SHEET METAL ROOFS WHERE FASTENING TO SEAMS IS NOT POSSIBLE (E.G. ZINC TITANIUM ROOFS)

- Materials: Stainless steel with EPDM rubber sealing plate

114003-000	FixPlan Sealing Plate	PU: 50
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BITUPLAN

ADDITIONAL SEAL FOR BITUMEN ROOFS WITHOUT LOAD-BEARING DECKING (COMBINES WITH FIXPLAN)

- Material: Aluminum butyl

114004-000	BituPlan Additional Seal for FixPlan	PU: 100
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SLATEPLAN

SUITABLE FOR SHINGLE ROOFS (E.G. BITUMEN, FIBRE CEMENT OR SLATE)

- Materials: Aluminum with EPDM rubber seal

109017-000	SlatePlan with seal 270 x 200 x 0,5 mm	PU: 50
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109017-001	SlatePlan with seal 370 x 200 x 0,5 mm	PU: 50
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HANGER BOLT SETS

COMBINES WITH FIXPLAN OR SLATEPLAN

- Materials: A4 stainless steel nuts and bolts, EPDM vulcanised (UV-resistant) rubber seals
- Pre-assembled with rubber washer and 3 flange nuts

110010-200**	Hanger Bolt Set 10 x 200 mounted	PU: 50
110210-200	Hanger Bolt Set 10 x 200 mounted	PU: 50
110012-200**	Hanger Bolt Set 12 x 200 mounted	PU: 50
110212-200	Hanger Bolt Set 12 x 200 mounted	PU: 50
110012-300**	Hanger Bolt Set 12 x 300 mounted	PU: 50
110212-300	Hanger Bolt Set 12 x 300 mounted	PU: 50

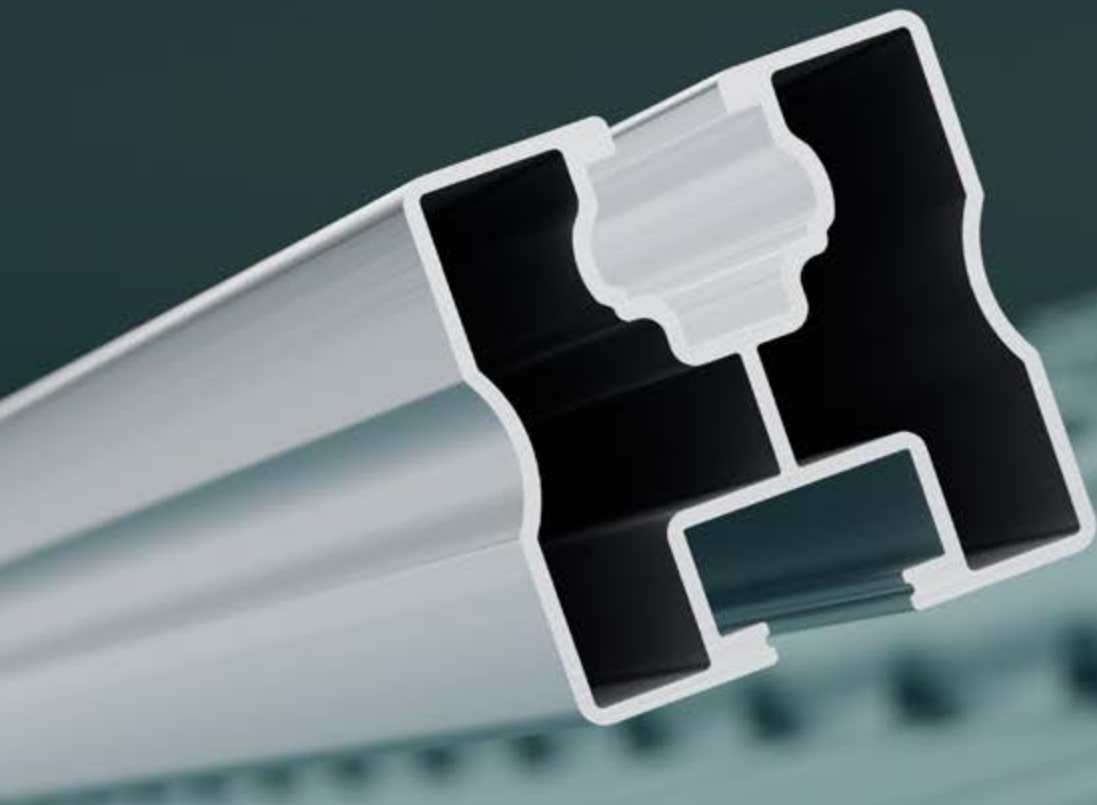
** Item discontinued. Available while stocks last.



MOUNTING RAILS

- PROLINE
- CLASSIC
- FIX-Z PRO
- ACCESSORIES





MOUNTING RAILS

PROLINE

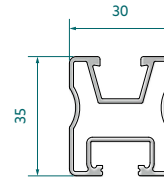
PROLINE MOUNTING RAILS



- Material: Aluminum
- Mechanical connection: lower rail channel and KlickNut Pro upper rail channel
- Compatible with all roof hooks
- Mount with Hammerhead Nut Pro or any ProLine connectors

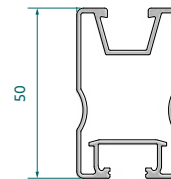
PRO35

Alu blank		
120020-00450	450 mm	PU: 50
120020-03550	3550 mm	
120020-04400	4400 mm	
120020-04750	4750 mm	
120020-05900	5900 mm	



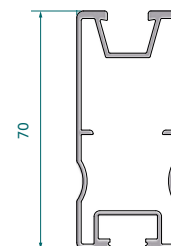
PRO50

Alu blank			Black anodized	
120021-00260	260 mm	PU: 50		
120021-02450	2450 mm			
120021-03550	3550 mm			
120021-04400	4400 mm			
120021-04750	4750 mm		120021-94750	4750 mm
120021-05900	5900 mm			



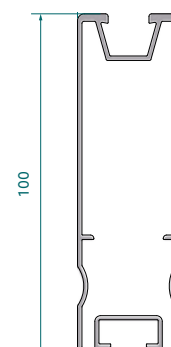
PRO70

Alu blank	
120022-05900	5900 mm



PRO100

Alu blank	
120023-00450	450 mm
120023-05900	5900 mm

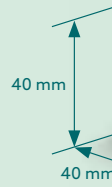


SOLOPRO

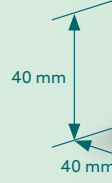
PROVEN DIMENSIONS,
HIGHER QUALITY.



SOLO



SOLOPRO



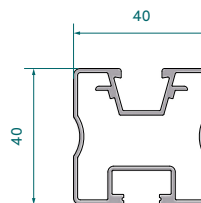
SOLOPRO

PROLINE IN CLASSIC SERIES DIMENSIONS

Alu blank

120039-04400	4400 mm
120039-04750	4750 mm
120039-05900	5900 mm
120039-06200	6200 mm

Not compatible with Cross Connectors.



PROLINE CONNECTOR

JOINS PROLINE MODULE SUPPORT RAILS

— Materials: Aluminum or zinc die-cast

129200-000	Slide-in connector Pro	PU: 40
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CROSS CONNECTOR

129063-020	Rapid Cross Connector 90 Pro	PU: 150
------------	------------------------------	---------

Pre-assembled, compatible with ProLine rail channels excluding SoloPro.

129063-010	Rapid Cross Connector Pro	PU: 200
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Allows hybrid cross-rail systems: Classic - ProLine excluding SoloPro.
Connects ProLine to the Universal Adapter.

129063-002	RapidConnect90	PU: 100
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Connector for cross-rail systems including SoloPro.
Connects base rails to ballast and composite rails.

RAIL END CAPS

Grey	Black		
129200-010	129200-910	Plastic End Cap Pro	PU: 100

Compatible with Pro35, Pro50 and Pro70 rails.



MOUNTING RAIL

CLASSIC

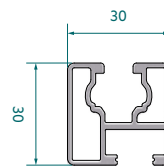
CLASSIC MOUNTING RAILS

- Material: Aluminum
- Mechanical connection: lower rail channel and KlickNut M8 upper rail channel
- Compatible with all roof hooks
- Mount with square nut, Klick System, or Rapid2+



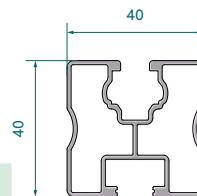
ECO05

Alu blank	
120001-03550	3550 mm
120001-04750	4750 mm
120001-05900	5900 mm



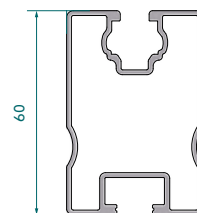
SOLO

Alu blank		Black anodized	
120005-02450	2450 mm		
120005-03550	3550 mm		
120005-04400	4400 mm		
120005-04750	4750 mm		
120005-05900	5900 mm	120005-95900	5900 mm
120005-06200	6200 mm		



SOLOPLUS

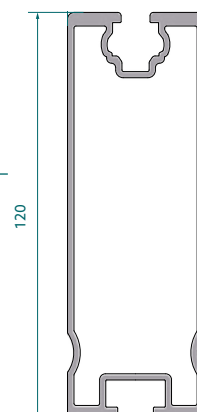
Alu blank	
120006-05900	5900 mm

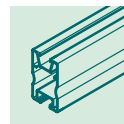


SOLOXL

Alu blank	
120015-05900	5900 mm

The lower rail channel is only suitable for mounting with the Square Head Bolt (943410-025).
Not for Rapid Adapter, Rapid Cross Connector, KlickTop, or similar.





CLASSIC CONNECTORS

JOINS CLASSIC MODULE SUPPORT RAILS

— Material: Aluminum

CONNECTORS		
129001-003	Connector E Eco (pre-assembled)	PU: 100

129002-002	Connector E Solo, SoloPlus, FixZ-7, FixZ-15 (pre-assembled)	PU: 100
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INTERIOR CONNECTORS		
129001-014	Eco05 Interior Connector 250 mm	PU: 50
943001-232	Thin Sheet Metal Screw 6.0 x 22 A2 with rubber washer	PU: 100

Two connector pieces and two screws per connection are required.

129060-000	Solo Slide-in Connector	PU: 50
943001-232	Thin Sheet Metal Screw 6.0 x 22 A2 with rubber washer	PU: 100

Two connector pieces and four screws per connection are required.

129001-007	SoloPlus Interior Connector	PU: 25
129001-008	EcoLight Interior Connector	PU: 25

129001-019	SoloXL Interior Connector	PU: 25
943001-232	Thin Sheet Metal Screw 6.0 x 22 A2 with rubber washer	PU: 100

1 connector piece and 4 screws per connection are required.

CROSS CONNECTOR		
Alu blank	Black anodized	
129063-000	129063-900	Rapid Cross Connector

Connector for Classic cross-rail systems.

129063-010	Rapid Cross Connector Pro	PU: 200
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Allows hybrid cross-rail systems: Classic / ProLine (excluding SoloPro).

RAIL END CAPS		
Grey	Black	
129011-000	129011-900	Plastic End Cap Solo

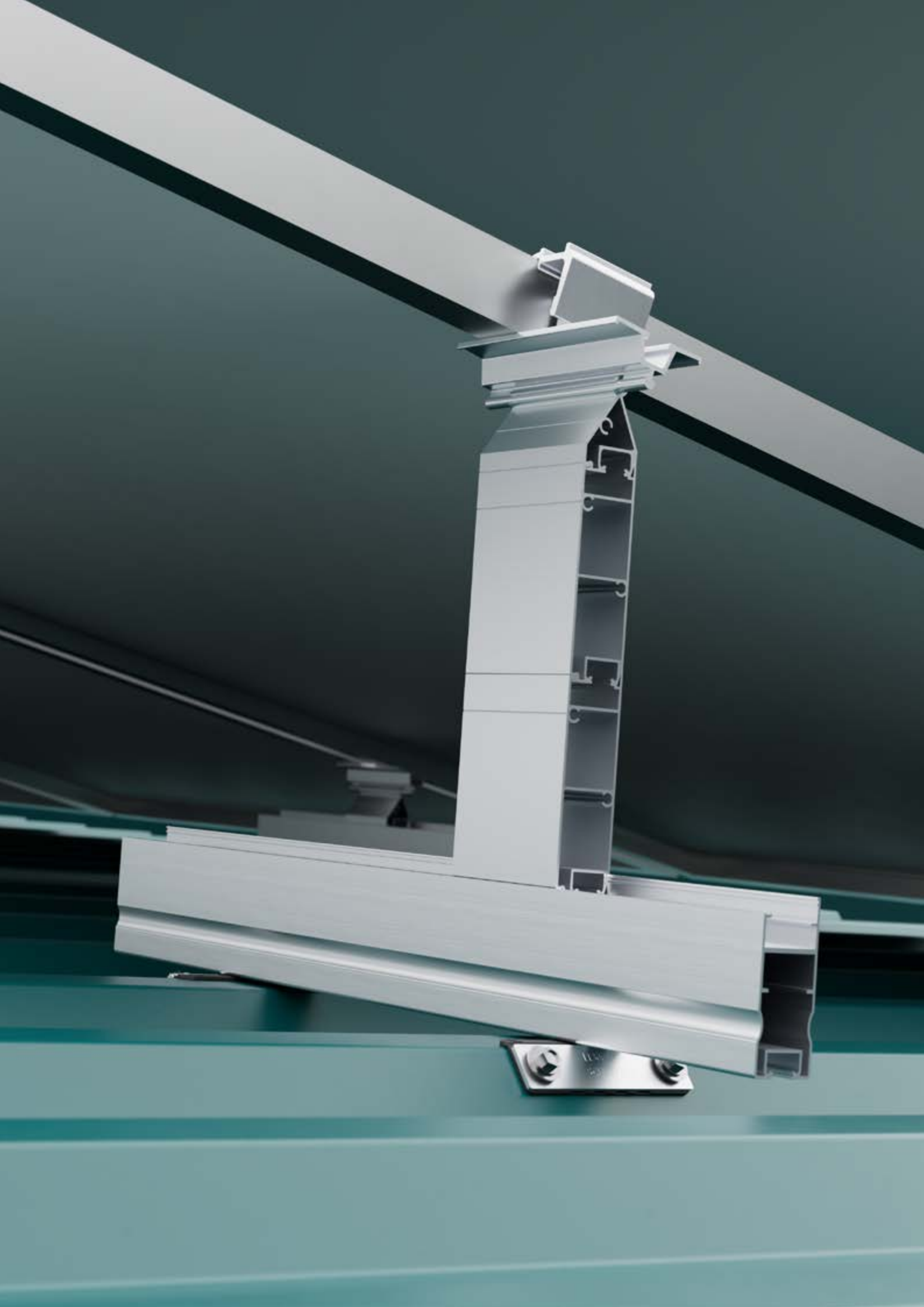
Compatible with Solo and SoloPro rails.



FIX-Z PRO

THE INFINITELY ADAPTABLE
MOUNTING SYSTEM.





FIX-Z IS AN IDEAL ADDITION TO ALL PITCHED METAL ROOF INSTALLATIONS.

Flush-mounted installations on trapezoidal roofs with pitches of less than 10° may offer inadequate self-cleaning and sub-par yields.

At the same time, using conventional supports may prove uneconomical or impossible due to higher loads. In such cases, we recommend a low inclined A-frame support.

And that's precisely why we developed the Fix-Z Pro.

- + Quick and easy to install
- + Improved rear ventilation
- + Better self-cleaning
- + Optimized load distribution through the roof cladding
- + Increased yield at a lower system price
- + Allows additional tilt angles
- + Enables easy mounting of framed modules on trapezoidal sheet metal (tilt angles of 5-7° or 13-15°)
- + Suitable for all common 60- or 72-cell modules



1

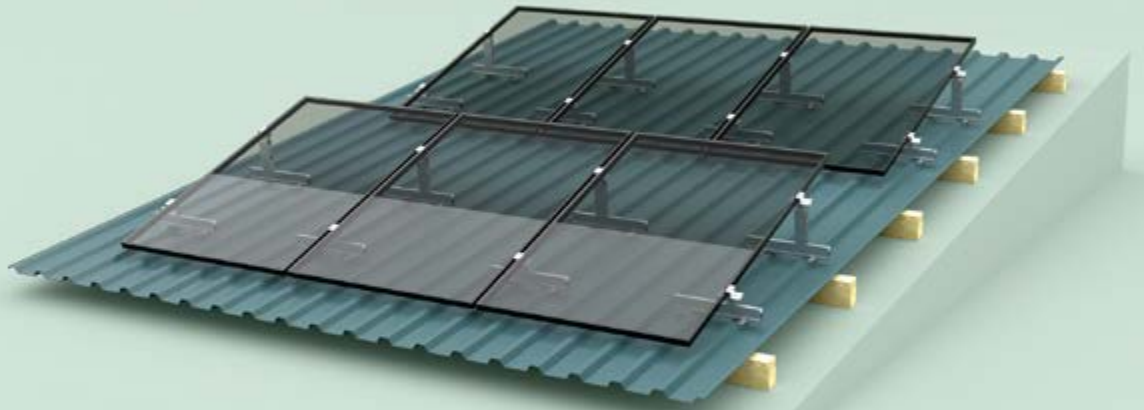
FIX-Z PRO ON BARREL ROOF

with SingleFix Pro and Module Support / Elevation Pro

2

FIX-Z PRO ON TRAPEZOIDAL ROOF

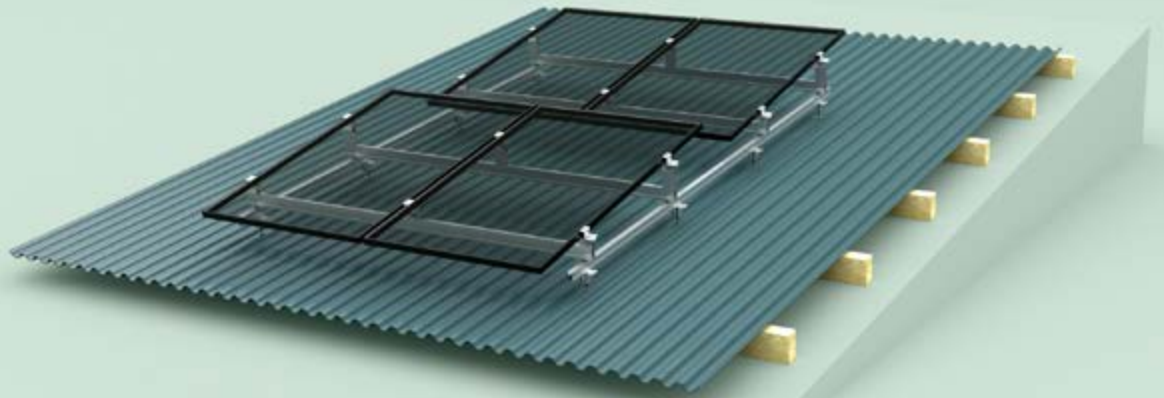
with SingleFix Pro and Module Support / Elevation Pro



3

FIX-Z PRO ON CORRUGATED ROOF

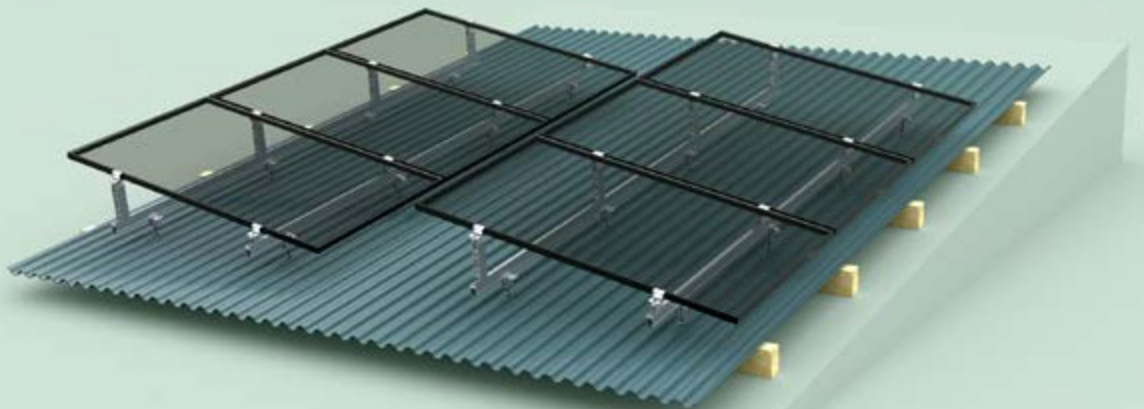
with Rapid Cross Connector 90 Pro
in a cross-rail system



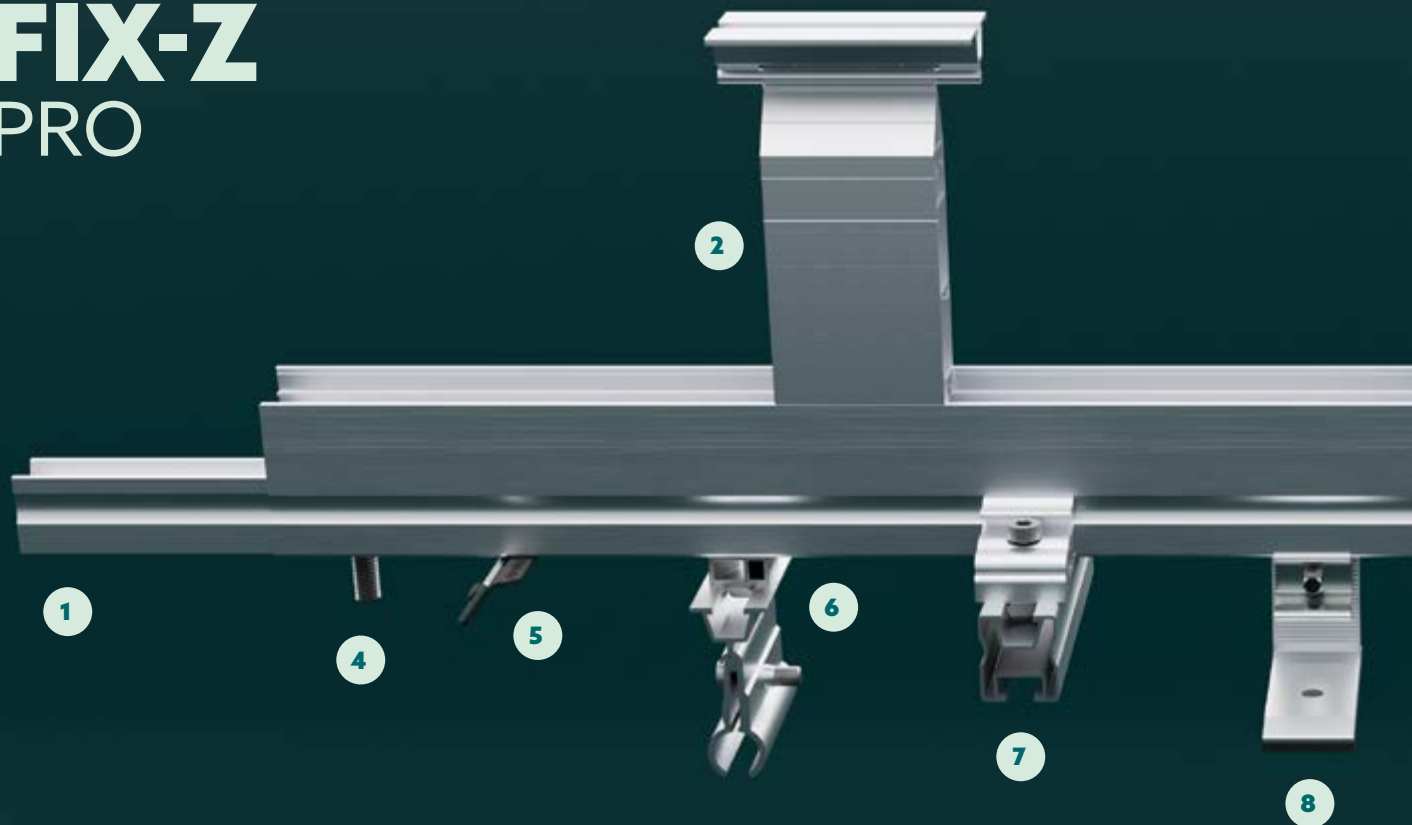
4

FIX-Z PRO ON CORRUGATED ROOF

East-facing with Hanger Bolt, Universal Adapter M8,
and Module Support / Elevation Pro



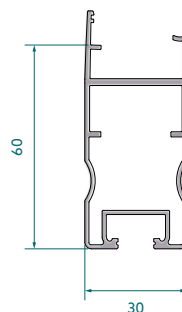
FIX-Z PRO



FIX-Z PRO

MOUNTING RAIL WITH NUMEROUS CONNECTION OPTIONS.

- Material: Aluminum
- Mechanical connection: lower rail channel and FixGrid Pro one-click connection upper rail channel



Alu blank

120034-00450	450 mm
120034-03550	3550 mm
120034-05900	5900 mm

PU: 50



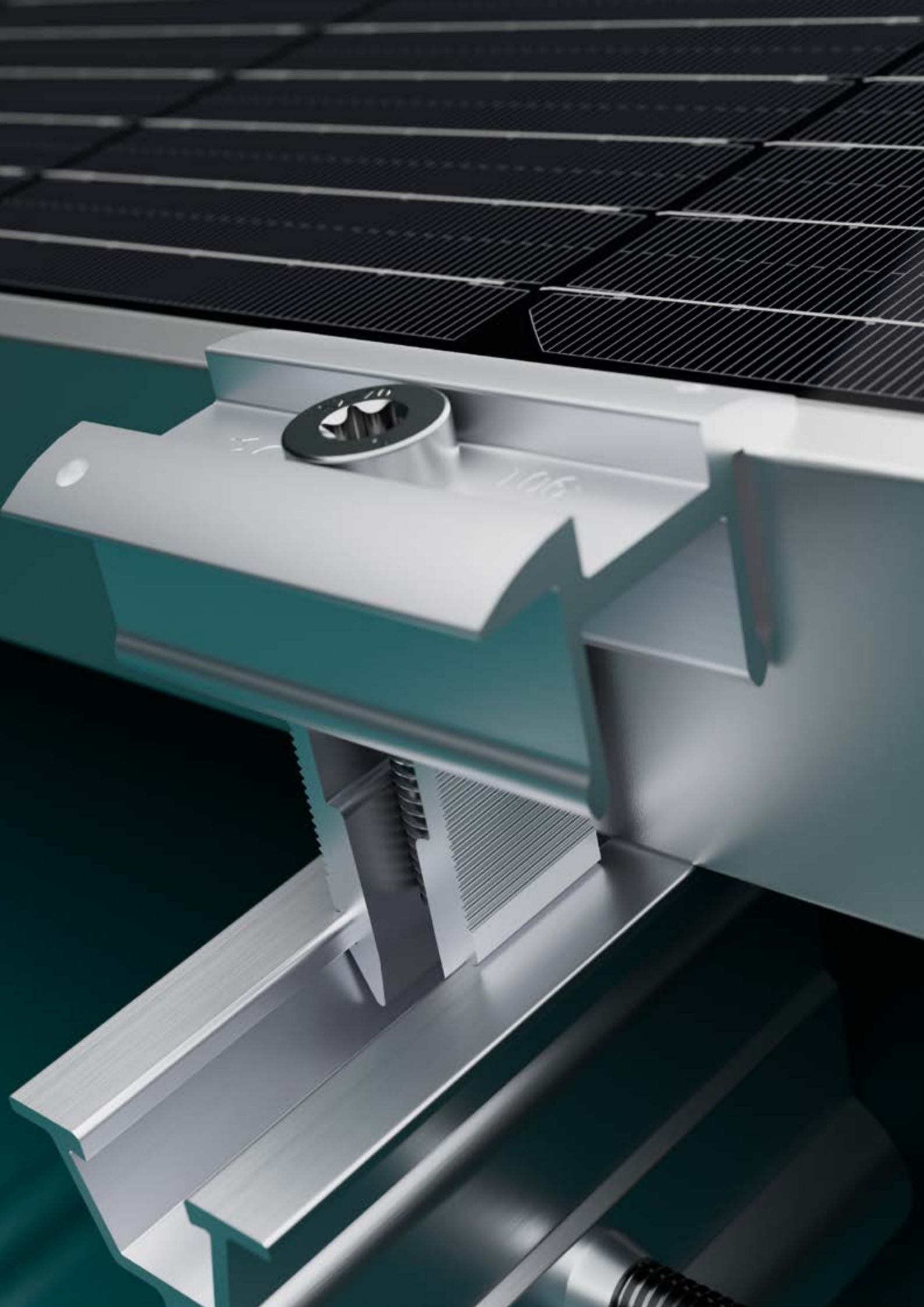


Fix-Z Pro Mounting Rail is compatible with the following items		Position	Catalogue
129200-000	Interior Connector Pro	1	Page 107
165005-003	Screw-In Elevation Pro	2	Page 20
165005-004	Module Support Pro	3	Page 21
943410-025	Square Head Screw M10x25 A2	4	Page 124
113009-003	SingleFix Pro	5	Page 74
129063-002	RapidConnect 90	6	Page 107
129063-020	Rapid Cross Connector 90 Pro	7	Page 107
119026-102	Rapid2+ Pro SML	8	Page 99
119026-122	Rapid Pro L-Bracket	9	Page 57
101xxx-xxx	Roof hook with Rapid Pro adapter	10	Page 47
129063-010	Rapid Cross Connector Pro	11	Page 105
119001-020	KlickTop Pro Adapter for Hanger Bolt	12	Page 81

MODULE CLAMPS

- FRAMED MODULE
- LAMINATE MODULES





PROLINE MODULE CLAMPS

FRAMED MODULES

RAPID PRO

- Materials: Blank aluminum or black anodized
- Clamp height: 30–47 mm with single clamp
- Clamp length: 50 mm
- Clamp depth: 7 mm
- Variable mounting orientation: vertical (V) and/or horizontal (H)



Alu blank	Black anodized	Item name	Mount type	
131020-001	131020-901	Middle Clamp Rapid Pro	V + H	PU: 100
131020-000	131020-900	End Clamp Rapid Pro	V + H	PU: 50



PRO

- Materials: Blank aluminum or black anodized
- Clamp height: 30–47 mm with single clamp
- Clamp length: 50 mm
- Clamp depth: 8.5 mm
- Variable mounting orientation: vertical (V) and/or horizontal (H)

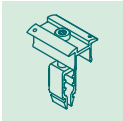


Alu blank	Black anodized	Item name	Mount type	
131021-001	131021-901	Middle Clamp Pro	V + H	PU: 100
131021-000	131021-900	End Clamp Pro	V + H	PU: 50



CLASSIC MODULE CLAMPS

FRAMED MODULES



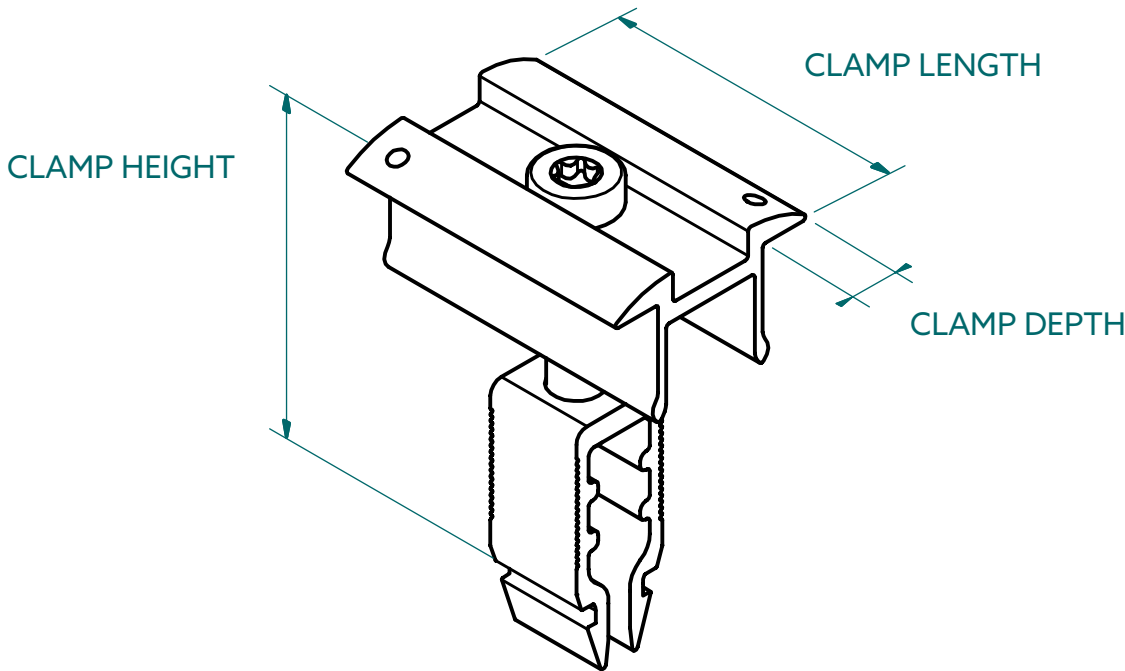
CLASSIC WIDE

- Materials: Blank aluminum or black anodized
- Clamp height: 30-40 mm
- Clamp length: 50 mm
- Clamp depth: 10 mm
- Mounting orientation: vertical (V) and/or horizontal (H)



Alu blank	Black anodized	Item name	Mount type	
131121-021*	131121-921*	Middle Clamp Classic Wide	V + H	PU: 100
131101-022*	131101-922*	End Clamp Classic Wide V	V	PU: 50
131101-021*	131101-921*	End Clamp Classic Wide H	H	PU: 50

* Available from Q3/2025



MODULE CLAMP CLASSIC

FRAMED MODULES

RAPID16

- Materials: Blank aluminum or black anodized
- Clamp height: 30–40 mm or 40–50 mm with two clamp variants
- Clamp length: 50 mm
- Clamp depth: 7 mm
- Mounting orientation: vertical (V) and/or horizontal (H)



Alu blank	Black anodized	Item name	Mount type	
131121-002	131121-902	Middle Clamp Rapid16 40–50	V + H	PU: 100
131101-002	131101-902	End Clamp Rapid16 40–50	V + H	PU: 50
131121-001	131121-901	Middle Clamp Rapid16 30–40	V + H	PU: 100
131101-001	131101-901	End Clamp Rapid16 30–40	V	PU: 50
131101-003	131101-903	End Clamp Rapid16 30–40	H	PU: 50



RAPID16 L

- Material: Blank aluminum
- Clamp height: 50 mm
- Clamp length: 100 mm
- Clamp depth: 7 mm
- Mounting orientation: vertical (V) and/or horizontal (H)

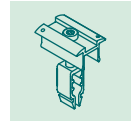


Alu blank	Item name	Mount type	
131121-111	Middle Clamp Rapid16 30–40 L	V + H	PU: 100
131101-101	End Clamp Rapid16 30–40 L	V	PU: 50



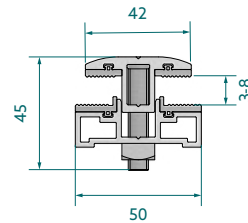
MODULE CLAMP CLASSIC

LAMINATE MODULES



PROFI LAMINATE NARROW

- Materials: Blank aluminum and glass protection rubber
- Suitable for 3-8 mm frame thicknesses
- Clamp length: 80 mm
- Glass overlap: 11 mm
- Gap between modules: approx. 20 mm
- Includes countersunk screw and square nut



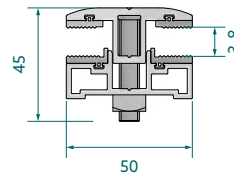
132201-308 Middle Clamp Profi Narrow 3-8 mm Set** PU: 100

132101-308 End Clamp Profi Narrow 3-8 mm Set** PU: 100

** Item discontinued. Available while stocks last.

PROFI LAMINATE WIDE

- Materials: Blank aluminum and glass protection rubber
- Suitable for 3-8 mm module thicknesses
- Clamp length: 80 mm
- Glass overlap: 15 mm
- Gap between modules: approx. 20 mm
- Includes countersunk screw and square nut



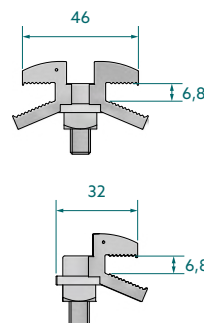
132202-308 Middle Clamp Profi Wide 3-8 mm Set** PU: 100

132102-308 End Clamp Profi Wide 3-8 mm Set** PU: 100

** Item discontinued. Available while stocks last.

CLASSIC LAMINATE ECO

- Materials: Blank aluminum and glass protection rubber
- Suitable for 6.8 mm module thickness
- Clamp length: 70 mm
- Glass overlap: 11 mm
- Gap between modules: approx. 22 mm
- Includes M8 x 20 screw without click-in component
- Clamps made with high-insulation EPDM rubber certified for First Solar Series 4 modules



133264-168 Middle Clamp Eco6-S4 6.8 mm Set** PU: 100

133164-168 End Clamp Eco6-S4 6.8 mm Set** PU: 100

** Item discontinued. Available while stocks last.

139004-000 Bearing plate for middle clamp Eco PU: 200

Aluminum shim to increase the contact surface of Eco laminate clamps.

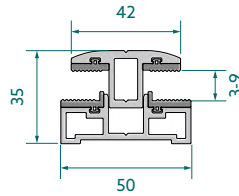


MODULE CLAMP PROLINE

LAMINATE MODULES

PROLINE LAMINATE NARROW

- Materials: Blank aluminum and glass protection rubber
- Suitable for 3–9 mm module thicknesses
- Clamp length: 80 mm
- Glass overlap: 11 mm
- Gap between modules: approx. 20 mm



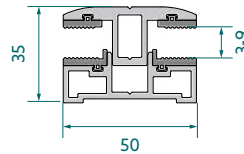
132201-328	Middle Clamp Pro Narrow 3–9 mm	PU: 100
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132101-328	End Clamp Pro Narrow 3–9 mm	PU: 100
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PROLINE LAMINATE WIDE

- Materials: Blank aluminum and glass protection rubber
- Suitable for 3–8 mm module thicknesses
- Clamp length: 80 mm
- Glass overlap: 15 mm
- Gap between modules: approx. 20 mm



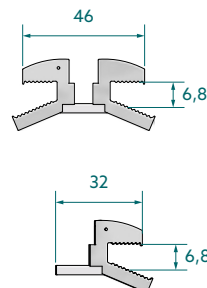
132202-328	Middle Clamp Pro Wide 3–9 mm	PU: 100
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132102-328	End Clamp Pro Wide 3–9 mm	PU: 100
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PROLINE LAMINATE ECO

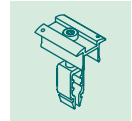
- Materials: Blank aluminum and glass protection rubber
- Suitable for 6.8 mm module thickness
- Clamp length: 70 mm
- Glass overlap: 11 mm
- Gap between modules: approx. 22 mm
- Clamps made with high-insulation EPDM rubber certified for First Solar Series 4 modules



133264-268	Middle Clamp Pro Eco6-S4 6.8 mm	PU: 100
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133164-268	End Clamp Pro Eco6-S4 6.8 mm	PU: 100
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ACCESSORIES

LAMINATE CLAMP SCREWS

— Material: A2 or A4 corrosion-resistant stainless steel



Accessories for mounting ProLine and Eco ProLine laminate clamps to Classic rails

943000-063	Torx Cylinder Head Screw with locking teeth M8x40, T40, A2 DIN EN ISO 14580	PU: 100
943914-008	Square Nut M8 A4	PU: 100



Accessories for mounting ProLine and Eco ProLine laminate clamps to ProLine rails

943000-063	Torx Cylinder Head Screw with locking teeth M8x40, T40, A2 DIN EN ISO 14580	PU: 100
942000-902	Hammerhead Nut Pro	PU: 100



LAMINATE SAFETY HOOK

ANTI-SLIP PROTECTION FOR LAMINATE MODULES

— Materials: Blank aluminum and glass protection rubber

139008-006	Safety Hook Laminate 3–8 mm	PU: 100
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ACCESSORIES

- SCREWS AND SMALL PARTS
- LIGHTNING PROTECTION
AND EARTHING
- CABLE ROUTING
- SAMPLE CASE



SCREWS AND SMALL PARTS

ACCESSORIES

BOLTS

COMPATIBLE WITH VARIOUS CLASSIC AND PROLINE SYSTEMS

— Material: A2 corrosion-resistant stainless steel

Hex Bolt, A2			
943610-025**	M10 x 25	DIN 933	PU: 100
943000-029	M10 x 25	DIN EN ISO 4017	PU: 100
943000-032	M10 x 35	DIN EN ISO 4017	PU: 100
943000-037	M10 x 45	DIN EN ISO 4017	PU: 100

** Item discontinued. Available while stocks last.

Square Head Bolt, A2			
943410-025	M10 x 25		PU: 100

Hex Cylinder Head Bolt with locking teeth, A2			
943000-025	M8 x 20	DIN EN ISO 4762	PU: 100

Hex Cylinder Head Bolt with Gleitmo coating, A2			
943000-024	M8 x 55	DIN EN ISO 4762	PU: 100

Flange Buttonhead Bolt with locking teeth, Torx 40, A2			
943001-238	M8 x 16	DIN 34805-2	PU: 100

Torx Cylinder Head Bolt with locking teeth, T40, A2			
943001-242	M8 x 16	DIN EN ISO 14580	PU: 100
943000-063	M8 x 40	DIN EN ISO 14580	PU: 100

STEEL SCREWS

SUITABLE FOR FASTENING TO STEEL BEAMS FROM 1.5 MM THICKNESS

— Material: A2 corrosion-resistant stainless steel

Self-tapping Screw, A2			
943763-064**	6.3 x 64		PU: 100
943763-115**	6.3 x 115		PU: 100
943763-200**	6.3 x 200		PU: 50

** Item discontinued. Available while stocks last.

Self-tapping Screw, A2			
943718-064	8 x 64		PU: 100
943718-125	8 x 125		PU: 50
943718-150	8 x 150		PU: 50
943718-200	8 x 200		PU: 50





SHEET METAL SCREWS

FASTENING SCREWS FOR SHEET METAL

— Material: corrosion-resistant stainless steel

943755-925	Drilling Screw 5.5 x 25 with rubber washer	PU: 100
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Chipping may occur when screwing.

943772-019	Self-tapping Repair Screw 7,2 x 19 FABA-A A2	PU: 500
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Thin Sheet Metal Screws with rubber washer

943000-700	Thin Sheet Metal Screw 5.5 x 25 A2 with rubber washer ETA, ETN, MCS012 and German building regulations approved. Use in DE, FR, and UK. Only use on approved sandwich elements.	PU: 100
943000-360	Thin Sheet Metal Screw 6.0 x 25 A2 with rubber washer ETA, ETN, MCS012 and German building regulations approved. Use in DE, FR, and UK.	PU: 100
943001-232	Thin Sheet Metal Screw 6.0 x 22 A2 with rubber washer Use outside DE, FR, and UK.	PU: 100



WOOD SCREWS

FASTENING SCREWS FOR WOODEN SUBSTRUCTURES

— Material: VA corrosion-resistant stainless steel

Washer Head Wood Screw, VA		
943208-080	8 x 80	PU: 100
943208-100	8 x 100	PU: 100
943208-120	8 x 120	PU: 50

Washer Head Wood Screw with cutting notch, VA		
943218-080	8 x 80	PU: 100
943218-100	8 x 100	PU: 100
943218-120	8 x 120	PU: 50

Washer Head Wood Screw, galvanized steel		
942208-080	8 x 80	PU: 50
942208-100	8 x 100	PU: 50
942208-120	8 x 120	PU: 50



119016-000	Seal for washer head screw M8 EPDM
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SCREWS AND SMALL PARTS

ACCESSORIES

NUTS AND WASHERS

COMPATIBLE WITH VARIOUS CLASSIC AND PROLINE SYSTEMS

— Material: A2 or A4 corrosion-resistant stainless steel

Large Washer A2			
943000-043	M8	DIN EN ISO 7093-1	PU: 100
943000-056	M10	DIN EN ISO 7093-1	PU: 100



Hammerhead Nut		
942000-902	Hammerhead Nut Pro	PU: 100

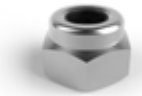
Made of zinc flake coated steel and suitable for use with stainless steel screws.



Flange Nut with locking teeth A4			
943000-015	M8	DIN EN 1661	PU: 100
943000-022	M10	DIN EN 1661	PU: 100



Lock Nut A4			
943001-240	M8	DIN EN ISO 7040	PU: 500



PLEASE NOTE: All lock nuts in all forms and materials are single-use and lose their locking effect when screwed and unscrewed again.

SQUARE NUTS AND KLICKIN

COMPATIBLE WITH CLASSIC SYSTEMS



Square Nut A4		
943914-008	Square Nut, M8, A4 Combines with KlickNut M8 rail channel and KlickIn M8.	PU: 100
943914-010	Square Nut, M10, A4 Combines with KlickNut M10 rail channel and KlickIn M10.	PU: 100



KlickIn Nut Retainer Plastic		
129010-008	KlickIn click component for nut M8 Simplifies inserting an M8 square nut into a KlickNut M8 rail channel.	PU: 100
129010-001	KlickIn click component for nut M10 Simplifies inserting an M10 square nut into a KlickNut M10 rail channel.	PU: 100



SELF-ADHESIVE EPDM RUBBER INLAY 3 MM

UV-RESISTANT MATERIAL

973000-041	EPDM Rubber Inlay, Self-adhesive, 48 mm wide	50 m roll
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LIGHTNING PROTECTION AND EARTHING

ACCESSORIES



LIGHTNING PROTECTION CLAMPS

COMPATIBLE WITH SCHLETTTER MOUNTING RAIL CHANNELS

— Material: corrosion-resistant stainless steel



135003-002	Grounding and Lightning Protection Clamp A2 M8	PU: 20
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Clamping range: Ø 8–10 mm.
Connect single / multi-core wiring 4–50 mm².
Suitable for the upper rail channel.



135003-022	Grounding and Lightning Protection Clamp Pro A2 M8	PU: 20
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Clamping range: Ø 8–10 mm.
Connect single / multi-core wiring 4–50 mm².
Suitable for the upper rail channel.



135003-000	Lightning Protection Clamp 8 mm	PU: 20
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Clamping range: Ø 8–10 mm.
Aluminum, pre-assembled (for wire dia. 8 mm).
Suitable for the lower rail channel.



EARTHING SHIMS

MODULE EARTHING (NOT SUITABLE FOR LAMINATE CLAMPS)



135004-000	Grounding Shim	PU: 100
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135004-020	Grounding Shim Pro	PU: 100
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PUNCHED MOUNTING TAPE

MADE FROM ALUMINUM ALLOY

119015-002	Punched Mounting Tape 6–50 m reel	PU: 1
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Cross-section 9.36 mm².



119015-003	Punched Mounting Tape 16–50 m reel	PU: 1
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Lightning resistant 25.2 mm² cross-section.



PROKLIP MULTI

CABLE ROUTING



PROKLIP-MULTI PS

- Compatible with the KlickNut Pro rail channel
- Bundle up to 6 cables
- Route cables along the side of the module support rail
- Compatible with FixGrid Pro and requires a thin sheet metal screw (943000-700, ordered separately)

PROKLIP-MULTI 10S

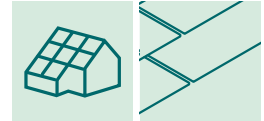
- Compatible with Classic and ProLine rail channels
- Bundle up to 4 cables
- Route cables along the side of the module support rail

PROKLIP-MULTI 8

- Compatible with KlickNut M8 or Classic rail channels
- Bundle up to 6 cables
- Route cables along the upper rail channel
- Clamp to either the upper or lower rail channel
- Compatible with FixZ-7, FixZ-15, and FS Systems, Carports, and special projects

CABLE ROUTING

ACCESSORIES



CABLE CLIPS

CLIPS MADE OF UV- AND TEMPERATURE-RESISTANT PLASTIC

129065-001	Proklip-Multi 10S	PU: 100
Rails	Cable quantity*	
Classic and ProLine lower rail channel.	approx. 4	

* Based on a 6 mm² cable with a diameter of 6 mm.



129065-008	Proklip-Multi 8	PU: 100
Rail	System	Cable quantity*
KlickNut M8 or lower rail channel, S, Solo, Eco05, FixZ-7, FixZ-15, SoloPlus, and SoloXL module support rails.	FixZ-7, FixZ-15, FS System, Carports, and special projects.	approx. 6



129065-018	Proklip-Multi PS	PU: 100
Rail	System	Cable quantity*
KlickNut Pro rail channel on Pro35, Pro50, Pro70, and Pro100 module support rails.	FixGrid Pro. A thin sheet metal screw (943000-700) is required for FixGrid Pro and must be ordered separately.	approx. 6



CABLE TIES

CABLE TIE LENGTH: 200 MM

149023-001	Fastening retainer 1.0–3.0 mm, top tie	PU: 100
Clips to edges of 1.0–3.0 mm thickness.		

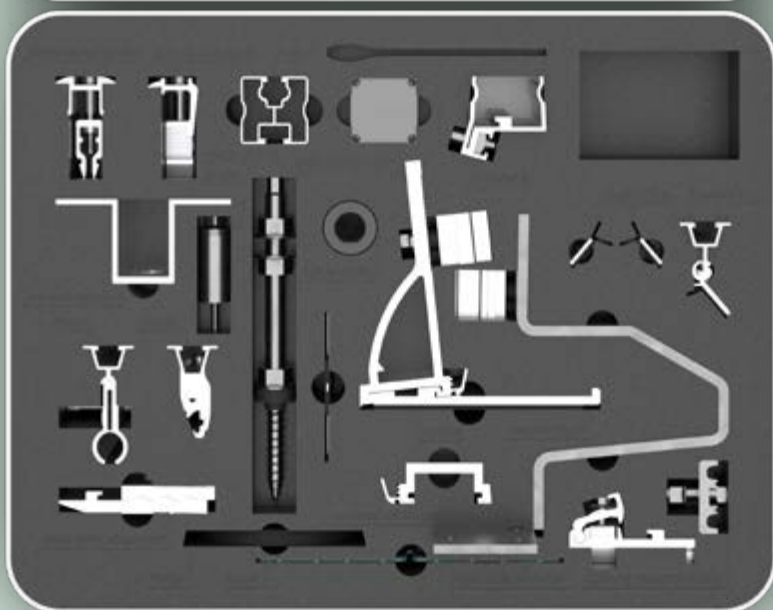
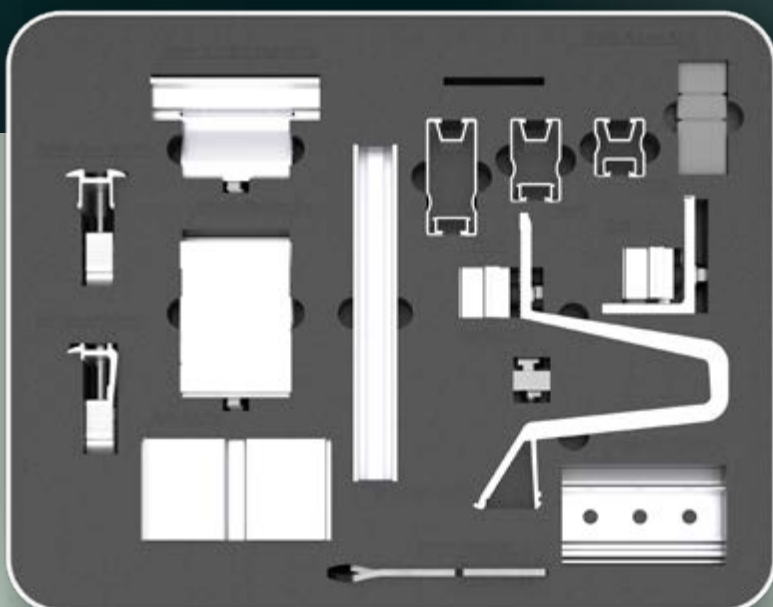


149023-002	Fastening retainer 1.0–3.0 mm, sideways tie	PU: 100
Clips to edges of 1.0–3.0 mm thickness.		



SAMPLE CASE

ROOFTOP SYSTEMS



SAMPLE CASE ROOFTOP SYSTEMS

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BEFORE YOU BUY.

195000-397 Sample Case Roof Top Systems

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NOTES



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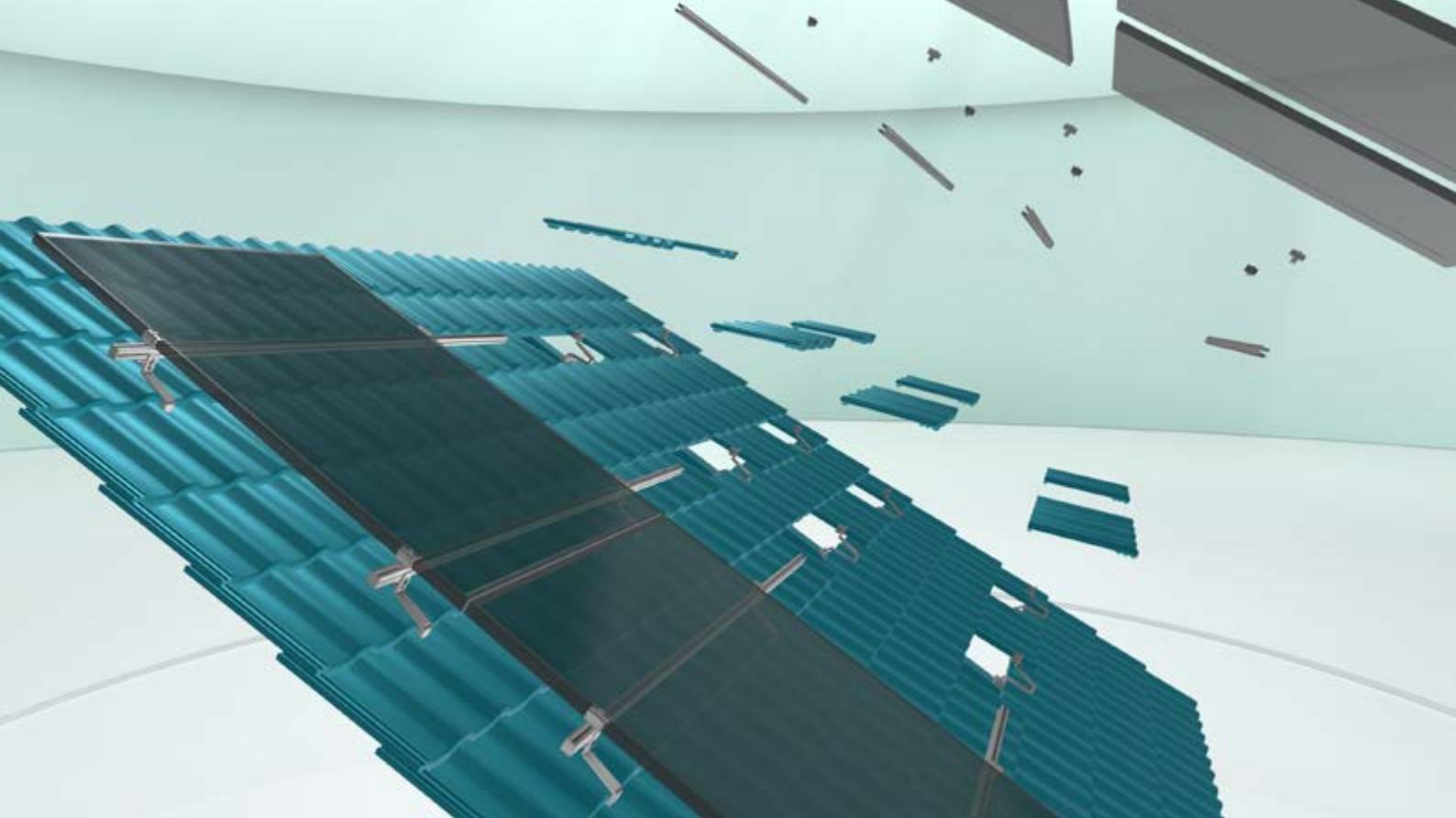
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GLOSSARY

A: Internal abbreviation for aluminum products.

AK: Abbreviation for 'aluminum lamination' (DE: aluminiumkaschiert). Roof foils, such as PVC foils, contain plasticizers. When they come into contact with surface protection mats, the plasticizer can migrate from the foil into the surface protection mat, which can lead to the mat becoming brittle. The aluminum lamination on the underside of the surface protection mat prevents this plasticizer migration.

EN: Abbreviation for 'European Standards' (DE: Europäische Norm). These standards are developed by European standardization bodies such as the European Committee for Standardization (CEN), the European Committee for Electrotechnical Standardization (CENELEC), and the European Telecommunications Standards Institute (ETSI). EN standards apply throughout the European Economic Area and are intended to ensure that products, services, and processes are safe and of high quality.

EN AW 6060: An aluminum alloy belonging to the Al-Mg-Si series (6000 series). This alloy is an extruded aluminum with moderate strength values, excellent weldability, corrosion resistance, and anodization properties.

EN AW 6063: An aluminum alloy belonging to the Al-Mg-Si series (6000 series). This alloy is an extruded aluminum and similar to EN AW 6060 but with higher strength values. Other properties include excellent weldability, corrosion resistance, and surface quality.

EPDM: Abbreviation for 'Ethylene-Propylene-Diene-Monomer' rubber. A group of synthetic rubbers that are very resistant to extreme weather conditions, heat, ozone, and acids.

FH: Abbreviation for 'flame retardant' (DE: flammhemmend) and refers to surface protection mats.

H: Internal abbreviation for horizontal module clamp alignment or rail mounting.

HSL: Internal abbreviation for 'High Snow Load' regions. It also means High Strength Low-alloy steel.

MAX: Internal abbreviation indicating that the product is designed for high snow loads.

PA: Abbreviation for 'polyamide', a thermoplastic known for its high strength and chemical resistance.

PRO: Internal abbreviation for the ProLine product series and indicates that the product is compatible with ProLine module support rails.

SK: Abbreviation for 'self-adhesive' (DE: selbstklebend) and refers to surface protection mats. The mats are supplied with an adhesive layer that allows for quick and easy installation without the need for additional adhesives.

T66: The material designation EN AW 6060-T6 indicates the heat treatment state of the material. It describes the mechanical properties that the aluminum has acquired through targeted treatment. T66 means that the material has been solution annealed and then artificially aged in order to achieve greater strength.

UNIVERSAL: Internal term used in the roof hook product groups that indicates when the product offers variable adjustments, like arm placement or rail mounting orientation.

V: Internal abbreviation for vertical module clamp alignment or rail mounting.

VA: Abbreviation for 'austenite melt test' (DE: Versuchsschmelze Austenit). Austenite refers to a crystal structure in stainless steel that has a high corrosion resistance. Originally, this term was used for special stainless steel alloys tested in the early stages of development. Today, 'VA' is often used as a synonym for stainless steel.

V2A: A chromium-nickel steel (CrNi steel) that is commonly used in industry. It is corrosion-resistant and often used for applications such as railings, sinks, and vehicle construction.

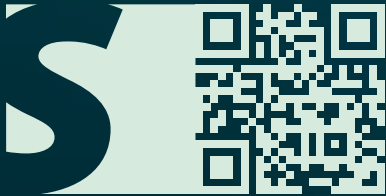
V4A: A further development of V2A which also contains molybdenum (CrNiMo steel). This alloy offers greater corrosion resistance and is often used in maritime environments and the chemical industry.

2+: Internal abbreviation for the roof hooks that come pre-assembled with multi-adapters to make them compatible with Classic and ProLine module support rails



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