

Mounting instructions

Magic PV Flat Basic PV mounting systems

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Table of contents

1	About these instructions	5
1.1	Target group	5
1.2	Relevance of these instructions	5
1.3	Types of warning information	5
1.4	Basic standards and regulations	6
1.5	Applicable documents	6
2	Intended use	6
3	Safety	6
3.1	General safety information	6
3.2	Personal protective equipment	7
4	Necessary tools	7
5	System overview	8
5.1	System description	8
5.2	System components	10
5.3	Accessories	11
6	Mounting the system	12
6.1	Shortening truss profiles	12
6.2	Positioning truss profiles	12
6.3	Connecting truss profiles lengthwise	13
6.4	Inserting the short and long supports	14
6.5	Mounting mesh cable trays	15
6.5.1	Fastening mesh cable tray with fastening set	15
6.5.2	Mounting a barrier strip	16
6.5.3	Weighing down mesh cable tray	17
6.6	Attaching the PV module	18
6.7	Adjusting the angle of inclination of the supports	19
6.8	Fastening PV modules with universal clamps	20
6.8.1	Fastening the PV module with end clamps at the sides	20
6.8.2	Fastening PV module with middle clamps	22
6.8.3	Fastening PV modules at the top and bottom	23
6.9	Fastening the PV module with end/intermediate clamps with springs	24
6.9.1	Fastening the PV module with end clamps with springs at the sides	25
6.9.2	Fastening PV modules with intermediate clamps with springs	26
6.9.3	Fastening the PV module with end clamps with springs at the top and bottom	28
6.10	Replacing the PV module	29
6.10.1	Replacing with side and middle fastening	29
6.10.2	Replacing with top and bottom fastening	30
6.11	Mounting the windbreak	31
6.12	Integrating the system into the equipotential bonding and/or lightning protection system	32
7	Maintaining the system	34

8	Dismantling the system	35
8.1	Dismantling the short and long supports	35
9	Disposing of the system	36
10	Technical data	36

1 About these instructions

1.1 Target group



These instructions are intended for specialists and/or instructed technical personnel (e.g. roofers, solar panel installers, engineers, architects, construction managers, mounting engineers, installation engineers), who have been trained in the mounting of photovoltaic systems and have been charged with the mounting of PV mounting systems.

Only have electrical work, such as the connection and earthing of the systems, carried out by specialist personnel with electrical training.

1.2 Relevance of these instructions

These instructions are based on the standards valid at the time of compilation (January 2026).

Please read the instructions carefully before commencing mounting. We will not accept any warranty claims for damage and liability caused through non-observance of these instructions.

Any images are intended merely as examples. Mounting results may look different.

1.3 Types of warning information



WARNING

Type of risk!

Shows a risky situation. If the warning information is not observed, then serious or fatal injuries may occur.



CAUTION

Type of risk!

Shows a risky situation. If the warning information is not observed, then medium or minor injuries may occur.

ATTENTION

Type of risk!

Shows a risky situation. If the warning information is not observed, then damage to the product or the surroundings may occur.

Note!

Indicates important information or assistance.

1.4 Basic standards and regulations

EN 62305 (VDE 0185-305)

DIN VDE 0100-712

EN 61643-32

1.5 Applicable documents

The declarations of conformity are linked to the products at www.obo-bettermann.com.

2 Intended use

The Magic PV Flat Basic photovoltaic mounting systems for flat roofs are used for the mounting of photovoltaic modules with a height of 30–50 mm on flat roofs with a bitumen seal or sealing with plastic membranes. The roof inclination must be $< 3^\circ$. With roofs with an inclination of $> 3^\circ$, an individual case study is essential. The systems are suitable for accepting modules with widths of 992–1,134 mm and lengths of 1,640–2,135 mm. The modules can be mounted in an east-west composite or in a southerly direction with an angle of inclination of 13.5 to 15.6°, depending on the module size. The truss profiles for the PV modules can be connected up to a maximum length of 20 m, in order to guarantee thermal separation. The mounting systems are not intended for securing people with belts or ropes during roofing work.

The mounting systems are not designed for any purpose other than the one described here. If the photovoltaic mounting systems are used for another purpose, any liability, warranty or damage claims shall be rendered null and void.

3 Safety

3.1 General safety information

Observe the following general safety information:

- It must be ensured that the planned PV system is intended for the load capacity of the roof. If necessary, consult a statics expert.
- The PV system and its ballasting must be matched to the local wind and snow load zones. Design only according to the planning using the OBO Construct app or a technical planner.
- Before commencing mounting, ensure that the materials such as the roof skin and insulation materials of the roof surface are suitable for accepting a PV system.
- The construction site must be protected against falling objects.

- Mounting must be carried out by at least two people.
- The people working must be protected as there is a risk of falling when working high above the ground.
- When working on the roof, care must be taken to avoid damaging the roof skin and insulation of the roof.
- Contact with electrical current can lead to an electric shock. Electrical work may only be performed by qualified specialists.
- Protective clothing must be worn as there is a danger of cutting from sharp profile edges and a risk of injuries to the eyes from flying chips when working with the angle grinder.

3.2 Personal protective equipment

List of personal protective equipment to be used:



Use hand protection



Wear safety shoes



Wear eye protection



Use catch protection

4 Necessary tools

List of tools to be used:

- Folding ruler/tape measure
- Chalk line
- Angle grinder
- Battery-operated screwdriver (Torx 30/40, Inbus 6)
- Torque spanner (WAF 13)
- Screwdriver (Torx 30/40, Inbus 6)

5 System overview

5.1 System description

The Magic PV Flat Basic photovoltaic mounting systems (PV mounting systems) for flat roofs consist of:

- Aluminium truss profiles with anti-slip coating on the underside
- Short and long supports
- Universal clamps as end or middle clamps, or
- End and intermediate clamps with springs for higher load zones
- Mesh cable trays for weighing down and cable routing.
- Windbreaks for systems facing south.

The truss profiles are simply placed on the roof; the coating on the underside protects the roof skin and prevents the system from slipping. The truss profiles can be connected using straight connectors. The short and long supports are snapped onto the truss profiles, and the PV modules onto them. The PV modules are fastened with the universal clamps or end/intermediate clamps with springs. Fastening is possible both at the sides on the short edges of the module or as a quarter-point fastening on the top and bottom edges of the module. The system is weighed down using standard blocks that are placed on mesh cable trays that are fastened below the modules on the truss profiles and are also used for cable routing.

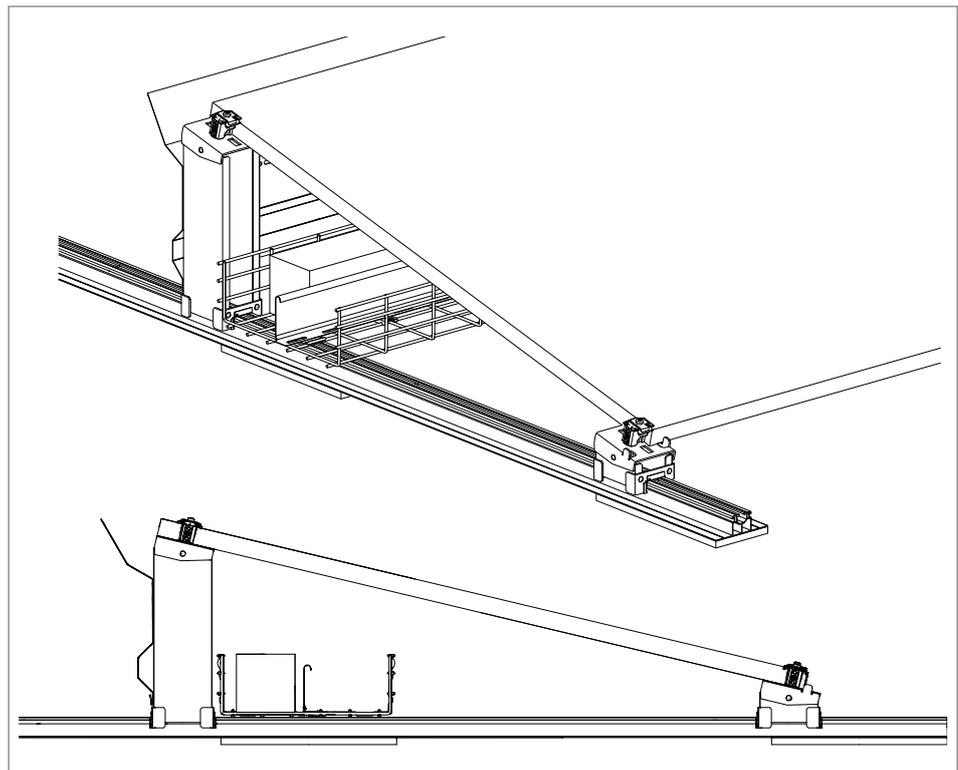


Fig. 1: Overview, system structure, side fastening

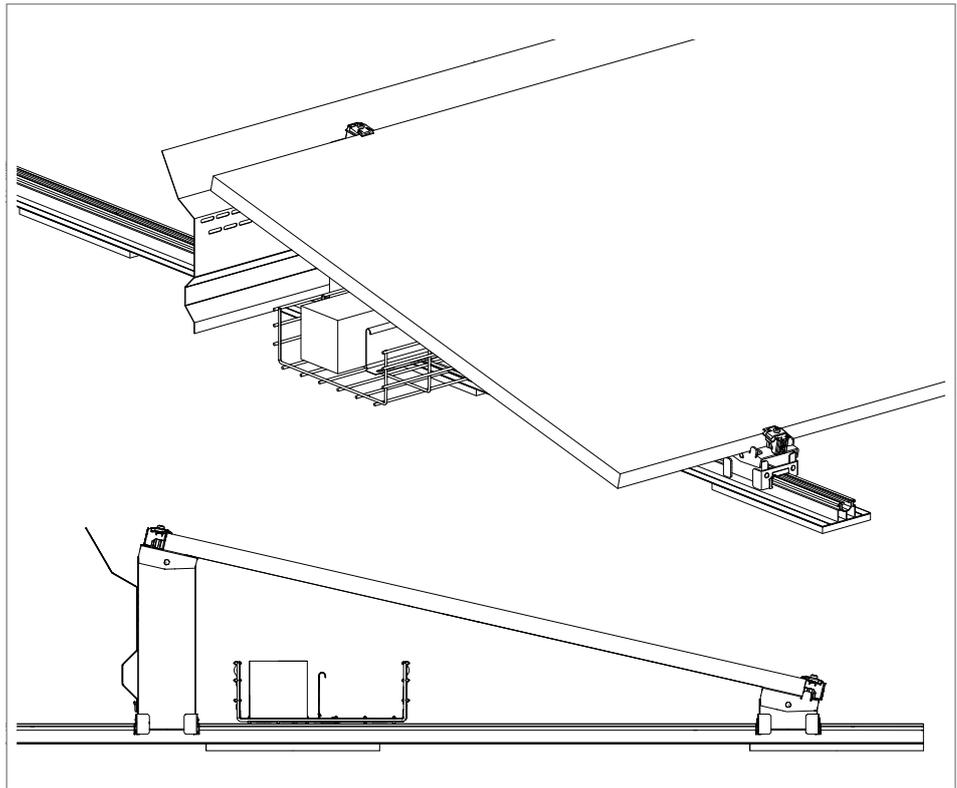


Fig. 2: Overview, system structure, quarter-point fastening top/bottom

5.2 System components

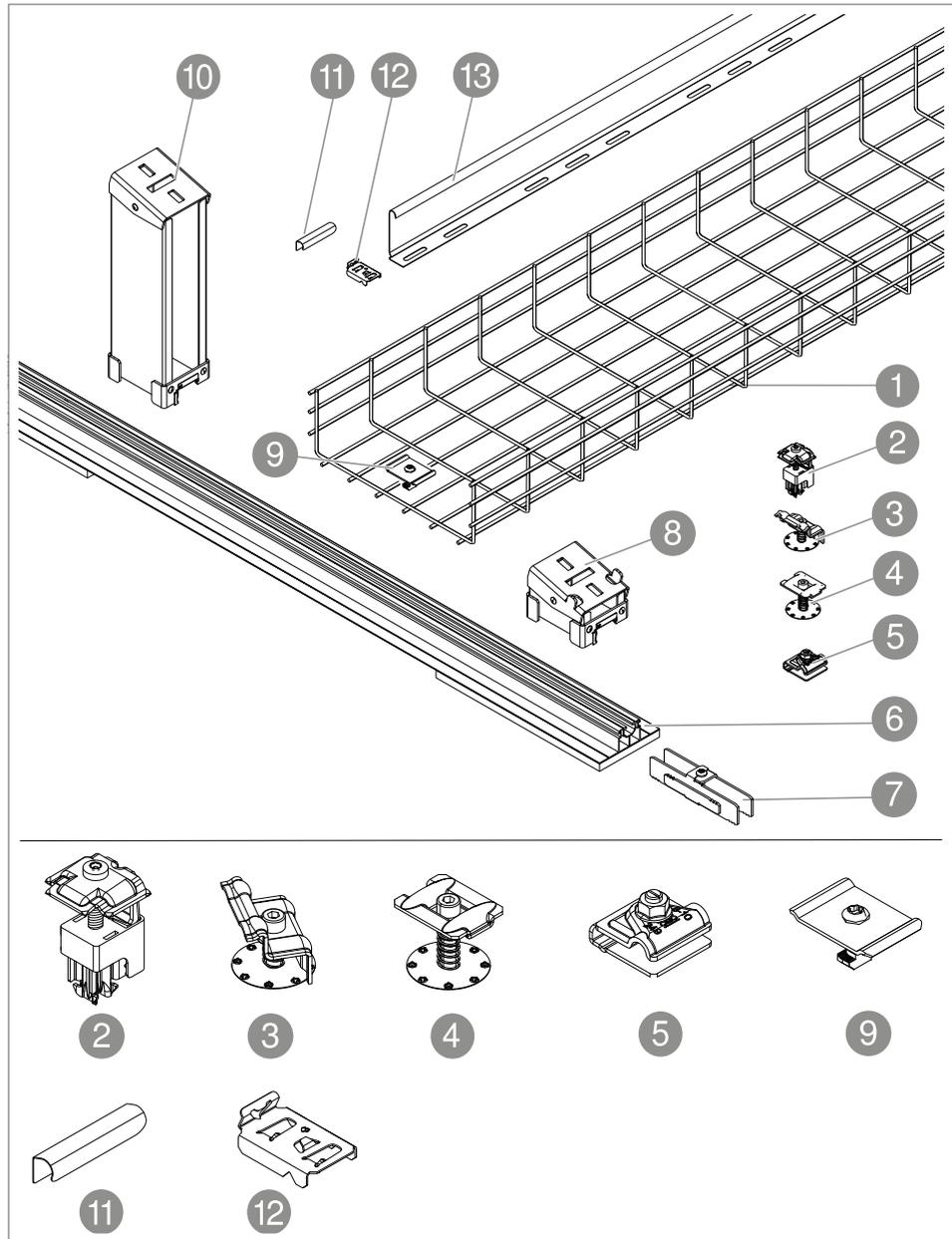


Fig. 3: Magic PV Flat Basic system overview

	Designation	Type	Function
①	Mesh cable tray	GRM 55 (200–600) FT GRM 105 (200–600) FT	Support for ballasting and cables
②	Universal clamp	KLU A2/KLU A2 S	Fastening of PV modules on supports
③	End clamp with spring	KLE F 25 A2 KLE F 30 A2 KLE F 35 A2 KLE F 40 A2	Fastening of PV modules on supports, suitable for high-load zones
④	Intermediate clamp with spring	KLZ F 25 A2 KLZ F 30 A2 KLZ F 35 A2 KLZ F 40 A2	Fastening of PV modules on supports, suitable for high loads

	Designation	Type	Function
5	Universal earthing clamp PV	249 PV10 6-50V2A	Creation of equipotential bonding
6	Truss profile	TPF 35 5000 ALU	Support and mounting rail for PV modules
7	Straight connector	LV 35 DD	Straight connection of truss profiles
8	Support, short	STK DD	Sloping stand-off and support for PV module, fastening on truss profile
9	Fastening set for mesh cable trays	BF GR	Fastening of mesh cable tray GRM on truss profile
10	Support, long	STL 15 DD	Sloping stand-off and support for PV module, fastening on truss profile
11	Barrier strip connector	TSGV A2	Straight connection of barrier strips, all side heights
12	Hold-down clamp for barrier strip fastening	KS GR A2	Barrier strip fastening
13	Barrier strip	TSG 45 DD TSG 85 DD	Separation of ballasting and cables in mesh cable tray

Tab. 1: System components

5.3 Accessories

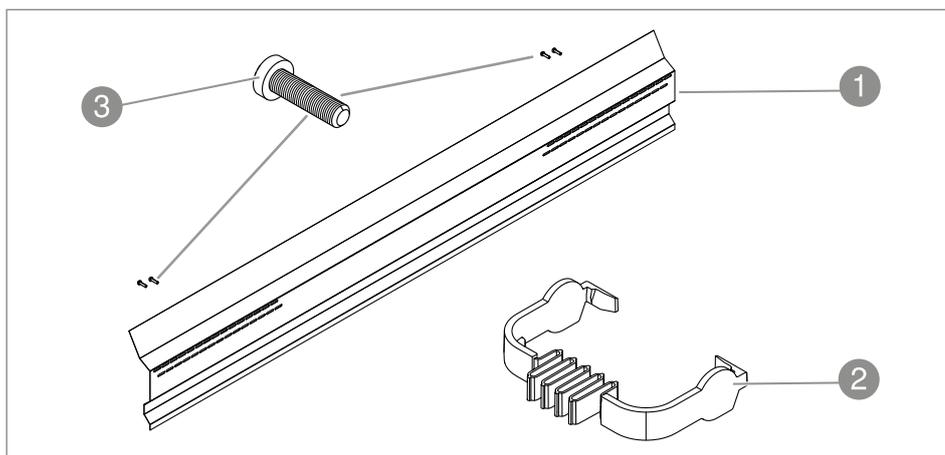


Fig. 4: Accessories

	Designation	Type	Function
1	Windbreak	WSB 2200 DD	Protection against wind load/wind pressure
2	Dismantling tool	Does not need to be ordered separately, included with the truss profiles	Release of the short and long supports from the truss profile
3	Flat-head screw	FKS 6x25 A2	Fastening of windbreak to long support

Tab. 2: System accessories

6 Mounting the system

ATTENTION

Danger of breakage and function loss!

PV modules can be lifted from below through the effect of wind. There is the danger of breakage and function loss. Maintain the spacings between the modules, as intended in the planning, along with the planned ballasting.

ATTENTION

Risk of shading!

If, with a southerly alignment, the PV modules are mounted too close to one another, there is the risk of mutual shading and thus reduced power yields. Maintain the spacings between the modules, as intended in the planning.

The number, spacing and weighting down of the truss profiles and the number of PV modules are specified by the roof assignment plan from the planner/statics engineer and/or the OBO Construct planning app.

6.1 Shortening truss profiles

It may be necessary to shorten truss profiles.

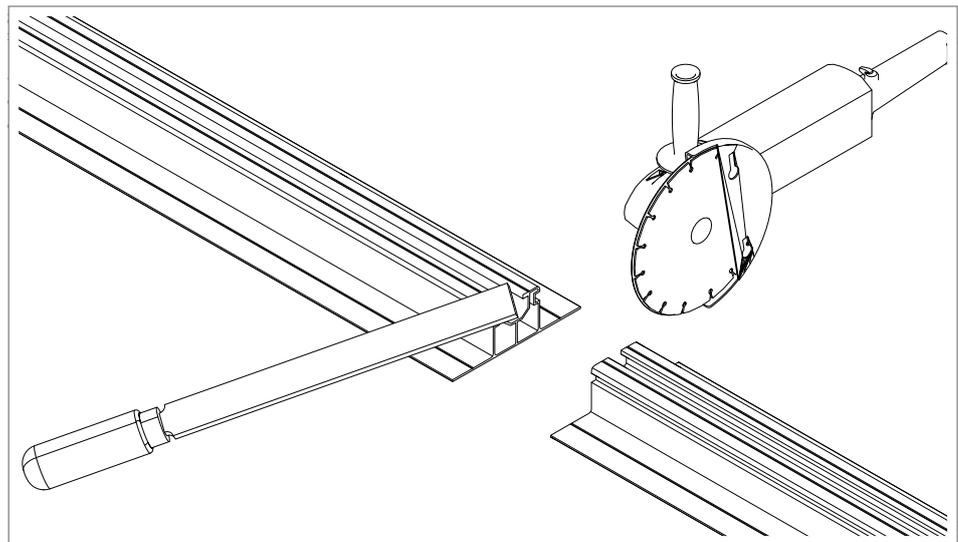


Fig. 5: Shortening truss profiles

1. Using an angle grinder, shorten the truss profile to the prescribed length.
2. Deburr cut edges.

6.2 Positioning truss profiles

1. Locate and align truss profiles according to the roof assignment plan.

6.3 Connecting truss profiles lengthwise

Truss profiles can be connected lengthwise using straight connectors of type LV 35 DD.

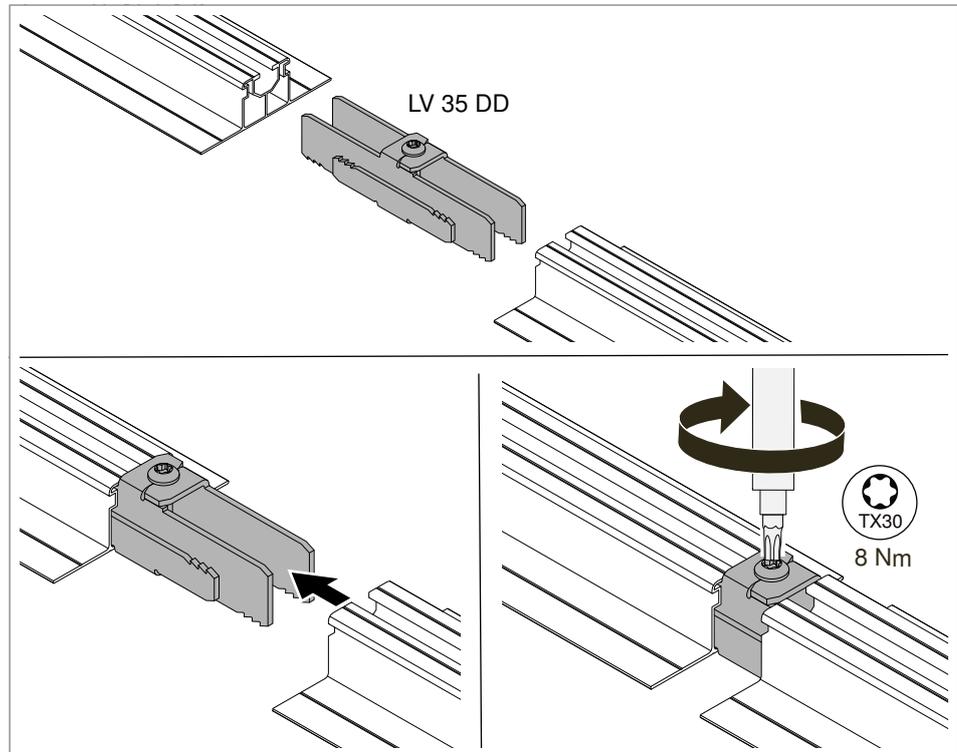


Fig. 6: Mounting a straight connector

1. Push the straight connector into the truss profiles until it hits the profile edges.
2. Tighten the straight connector screw with 8 Nm.

6.4 Inserting the short and long supports

Note! *The position of the short and long supports is dependent on the size of the modules and the points in which the universal clamps must be placed. Refer to the planning of the PV system or the OBO Construct planning app for the exact position.*

Note! *The short and long supports are fixed on the rail after they are engaged and cannot be moved. They can be released again using a dismantling tool (see also Chapter „8.1 Dismantling the short and long supports“ on page 35).*

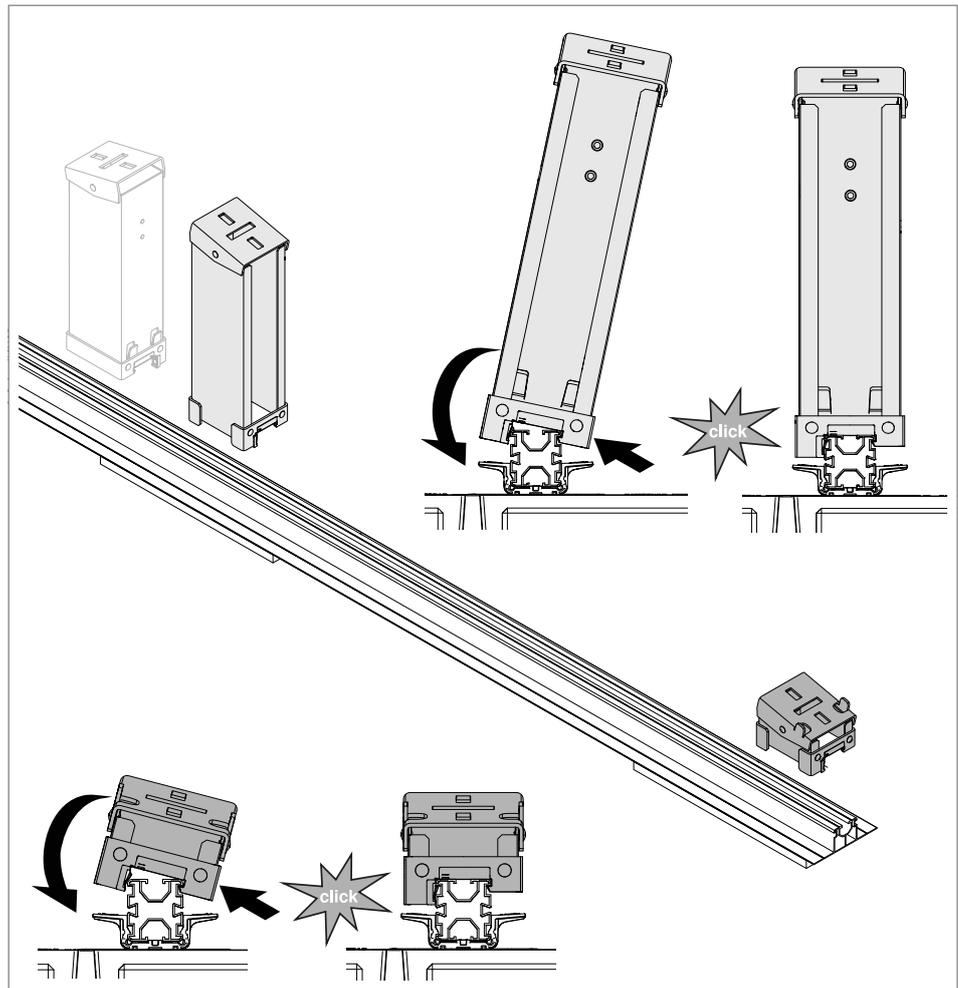


Fig. 7: Inserting the supports

1. Hook the short and long supports into the truss profile using the short side (↖).
2. Engage the support in the truss profile using the long side (↷).
3. Insert all further supports into the truss profiles in the same way.

6.5 Mounting mesh cable trays

Type GRM mesh cable trays are used for ballasting the PV system and for cable routing. A barrier strip separates blocks and cables.

Note! Refer to the planning of the PV system or the OBO Construct planning app for the number and exact positions of the mesh cable trays.

6.5.1 Fastening mesh cable tray with fastening set

The mesh cable trays are fastened to the truss profile with the BF GR fastening set.

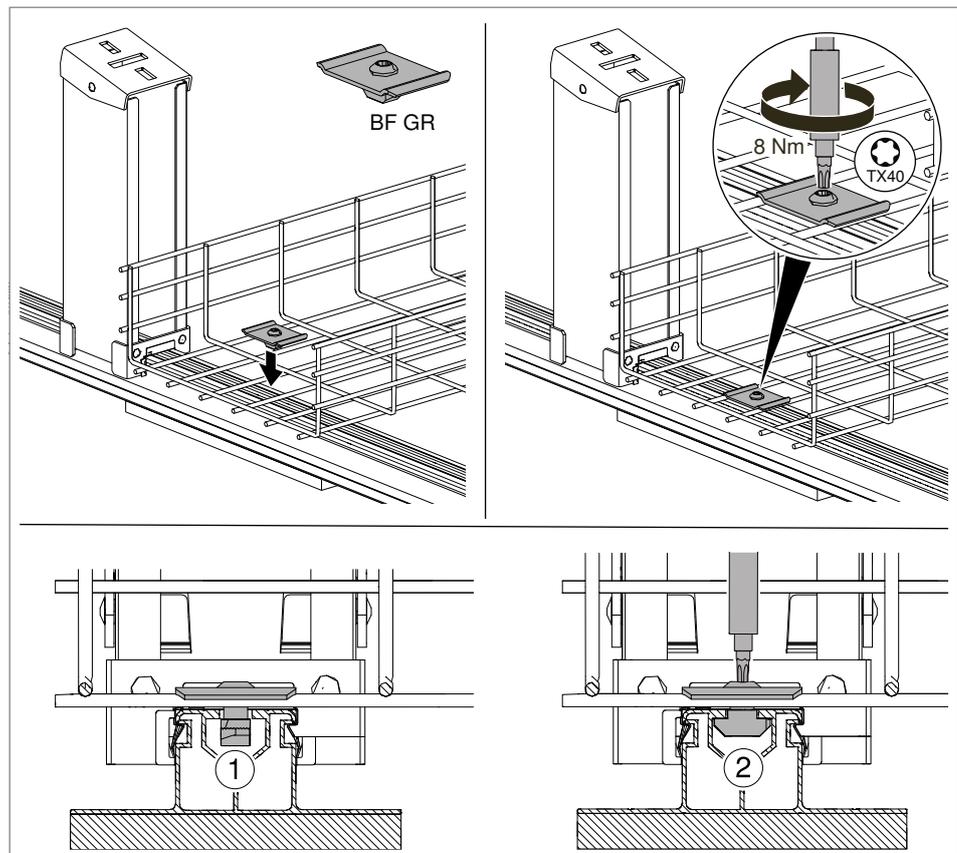


Fig. 8: Fastening mesh cable tray

1. Place the mesh cable tray on the truss profile.
2. Insert the slide nut from the fastening set into the truss profile ①.
3. Tighten the screw from the fastening set with 8 Nm until the slide nut seizes, while clamping the straight wires of the mesh cable tray ②.
4. Fasten the mesh cable tray to all further truss profiles with the fastening set.

6.5.2 Mounting a barrier strip

The barrier strip is fastened to the mesh cable tray with a KS GR hold-down clamp without a screw connection. For type GRM 55 mesh cable trays, the TSG 45 barrier strip is used; barrier strip TSG 85 is used for type GRM 105. Multiple barrier strips are connected lengthwise with the TSG V barrier strip connector.

Fastening barrier strip to mesh cable tray

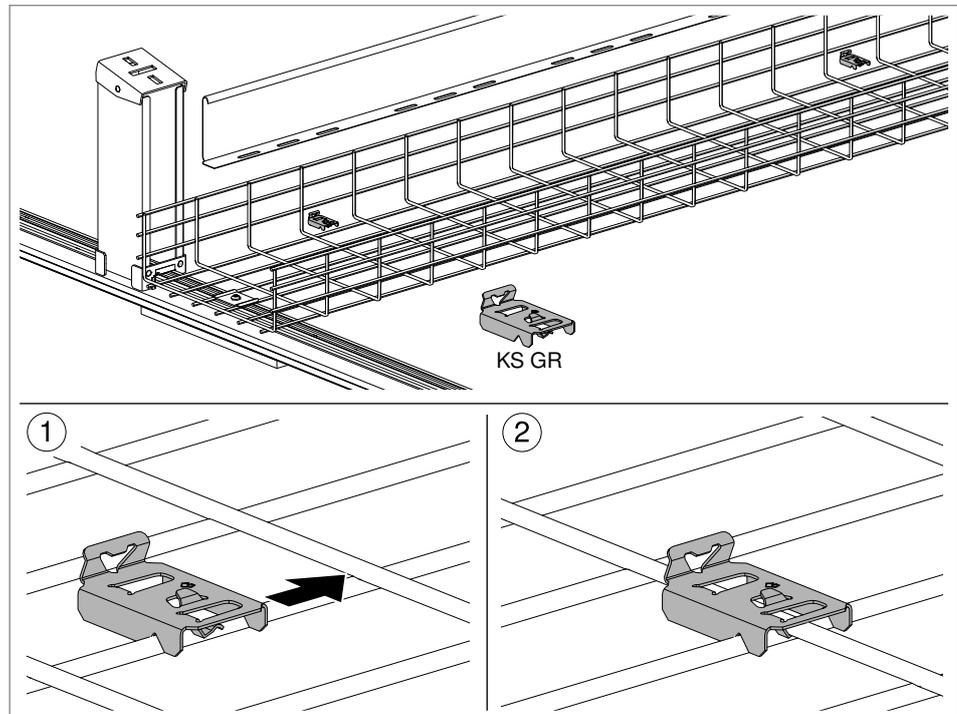


Fig. 9: Fastening barrier strip with hold-down clamp

1. Place the hold-down clamp on the mesh cable tray wire ①.
2. Engage the hook of the hold-down clamp under the mesh cable tray wire ②.

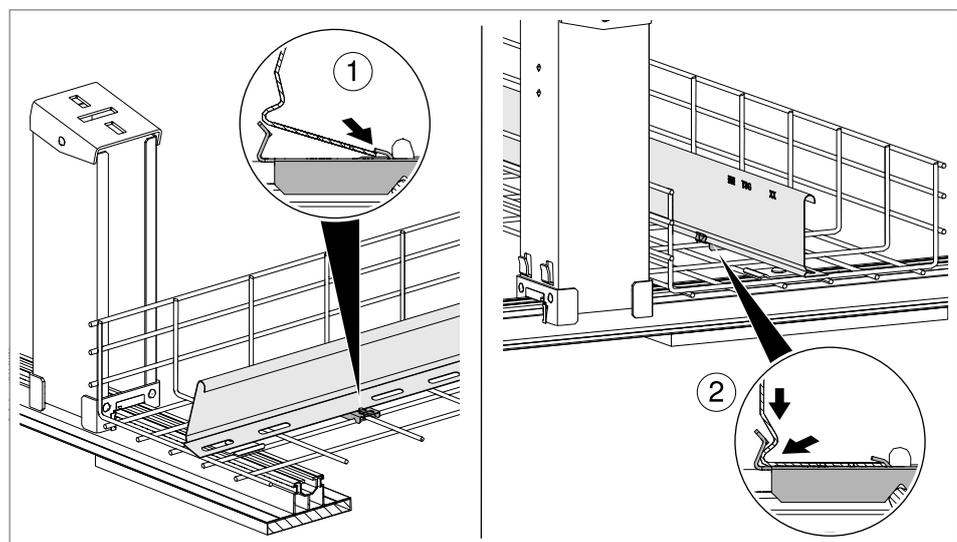


Fig. 10: Clamping the barrier strip

3. Clamp the barrier strip in the hold-down clamp.

Connecting barrier strips lengthwise

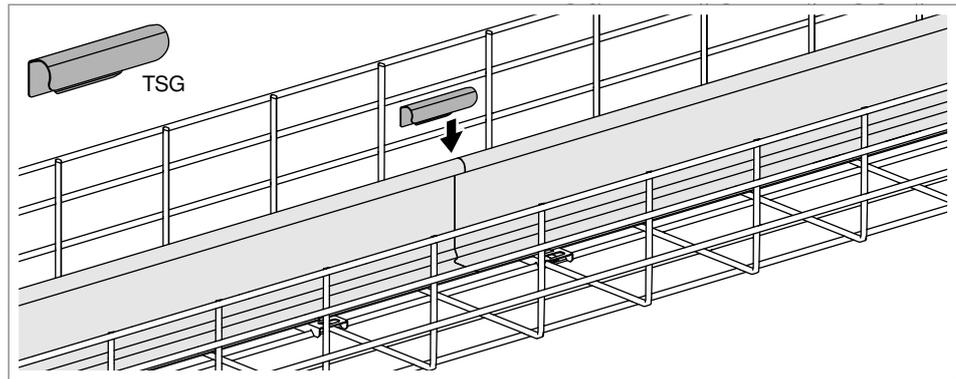


Fig. 11: Clamping barrier strip connector

1. Clamp the TSG barrier strip connector at the joint of 2 barrier strips.

6.5.3 Weighing down mesh cable tray

The mesh cable trays are weighed down using standard blocks with a maximum width of 10 cm. The maximum number of blocks per tray depends on the tray width and height and the weight needed to ballast the system. Refer to the system planning for the number of blocks.

Note!

Generally, the blocks can be positioned on the left or right side of the barrier strip. The side is selected at the planner and installer's discretion, e.g. taking into account the accessibility of the cable duct for subsequent cable routing.

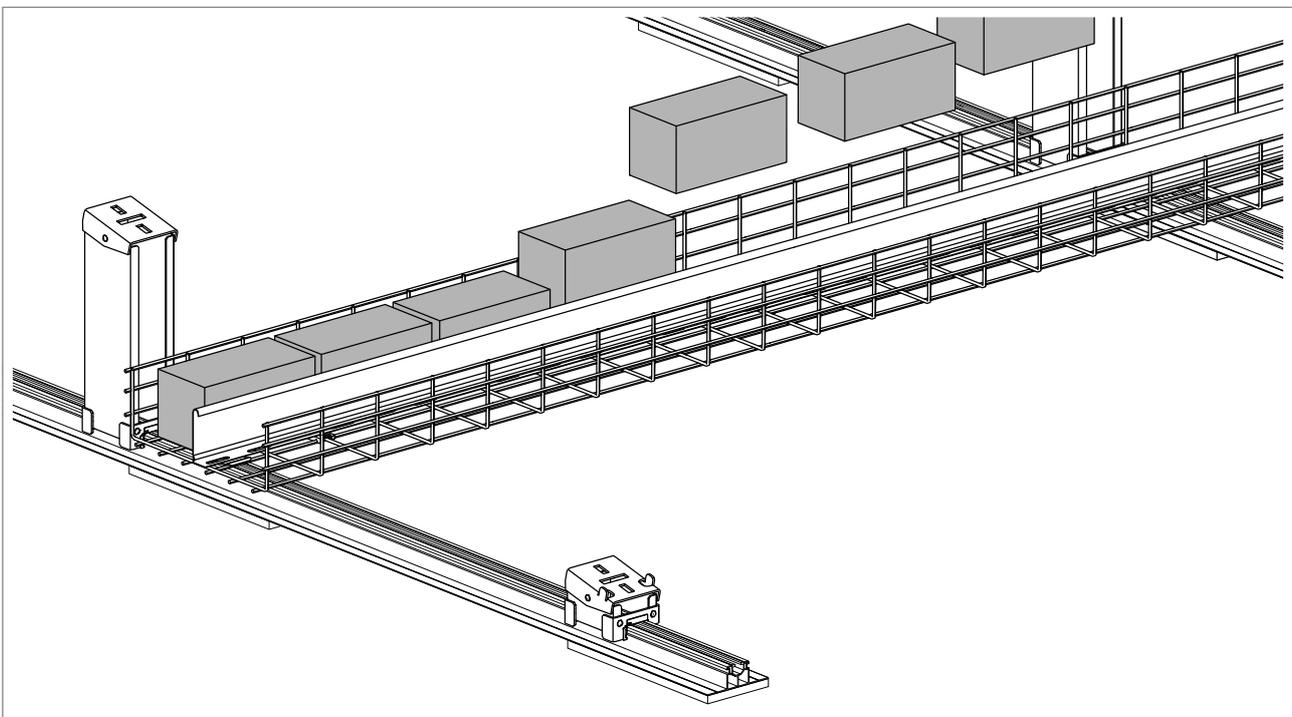


Fig. 12: Weighing down mesh cable tray

1. Place the required number of blocks into the mesh cable tray on one side of the barrier strip.

6.6 Attaching the PV module

The PV module is placed on the supports and is then fastened to the supports with universal clamps or end/intermediate clamps with springs. For fastening, horizontal and vertical slots are drilled into the supports for the clamps.

Note! *Depending on the necessary inclination, the support surface of the supports can be adjusted, so that the PV module is flat (see also Chapter „6.7 Adjusting the angle of inclination of the supports“ on page 19).*

Note! *To avoid slippage of the PV modules during mounting, holding straps are worked into the short supports (see also „Fig. 14: Attaching the PV module with top/bottom fastening“ on page 19).*

Attaching the PV module with side fastening

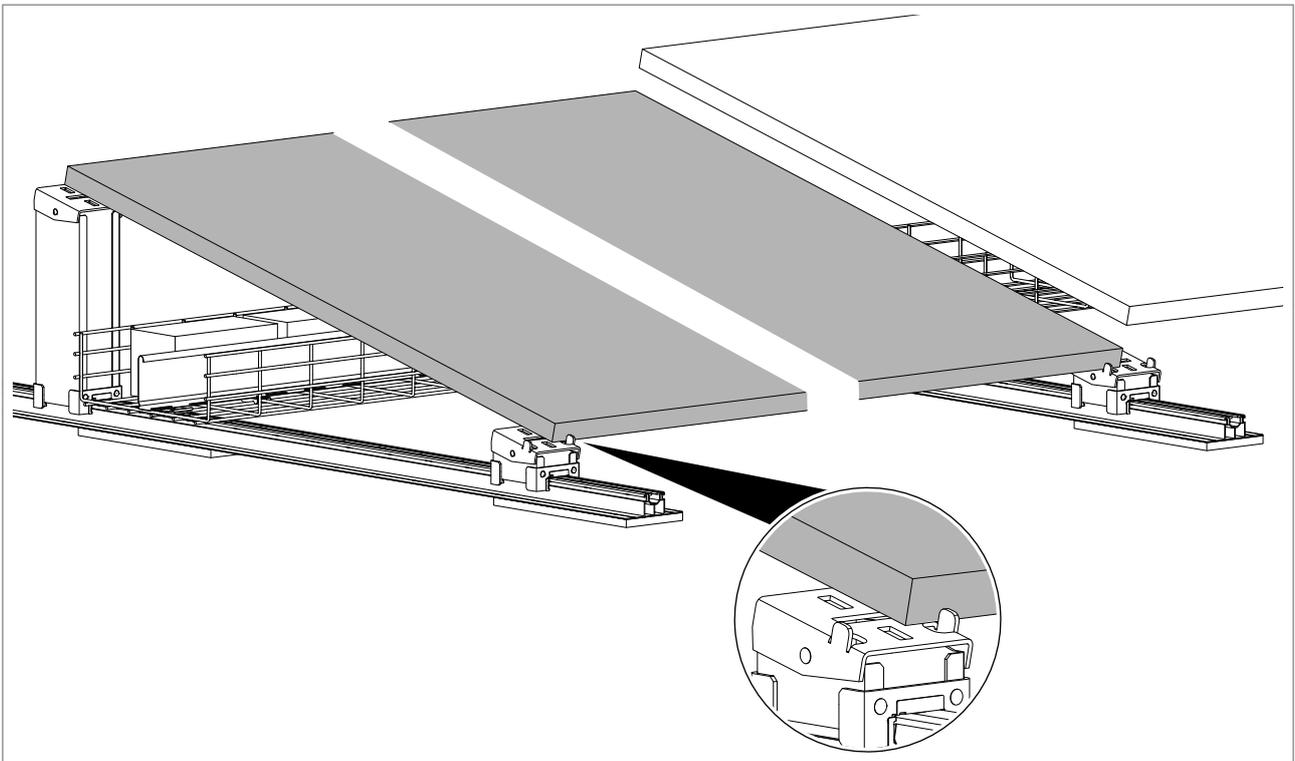


Fig. 13: Attaching the PV module with side fastening

1. In case of side fastening, place the PV module so that a clamp can still be placed in the corresponding slot of the support.

Attaching the PV module with top/bottom fastening

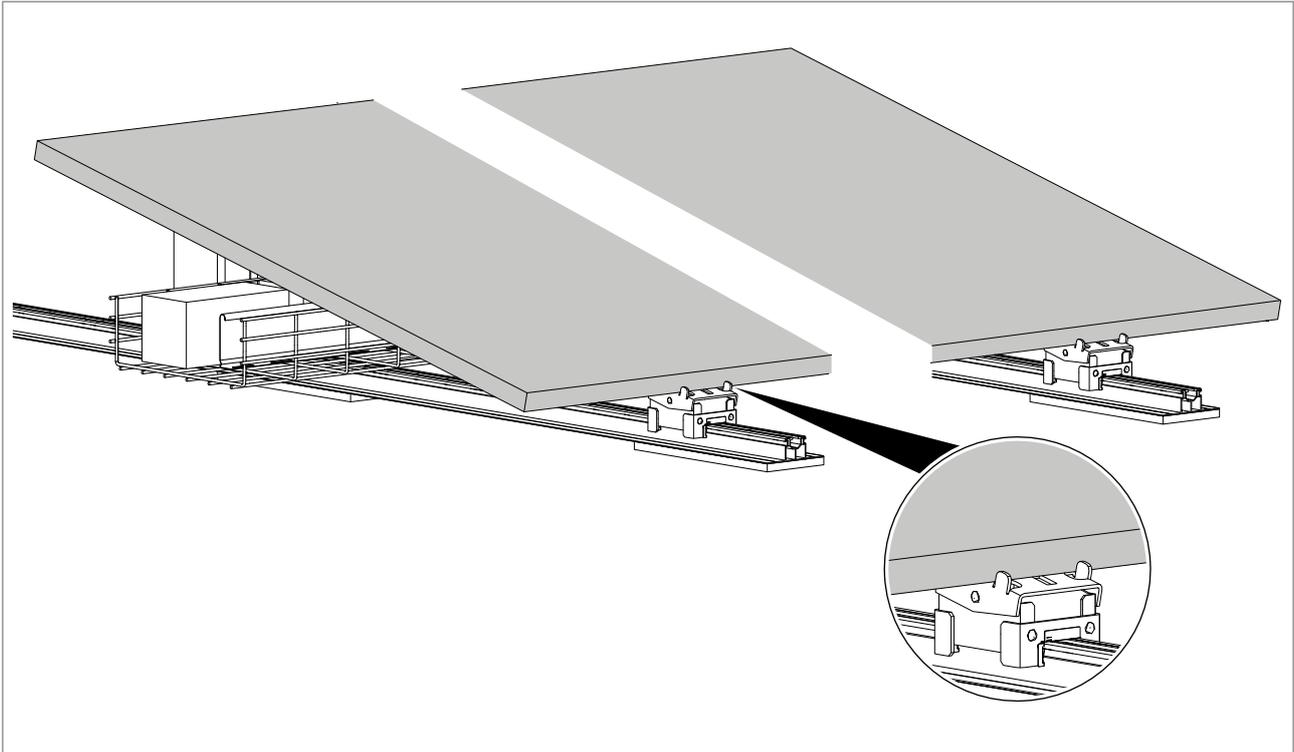


Fig. 14: Attaching the PV module with top/bottom fastening

1. In case of top/bottom fastening, place the PV module so that a clamp can still be placed in the vertical slot of the support.

6.7 Adjusting the angle of inclination of the supports

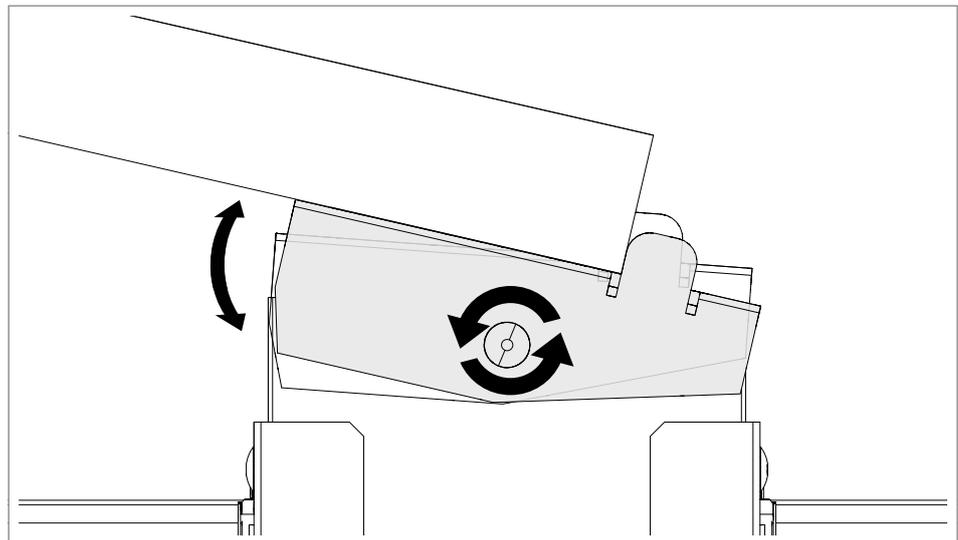


Fig. 15: Adjusting the angle of inclination of the supports

1. If necessary, adjust the angle of inclination of the support surface of the short and long supports, so that the PV module is flat.

6.8 Fastening PV modules with universal clamps

The PV modules are clamped at the edges of the module with at least four universal clamps. With larger modules, six clamping points may be required, depending on the specifications of the module manufacturer.

The universal clamp can be used for the following:

- As an end clamp at the side edges of the module
- As a middle clamp for two modules placed next to each other on the same support
- As an end clamp at the bottom and top edges of the module, if four supports are required per module (quarter-point fastening).

6.8.1 Fastening the PV module with end clamps at the sides

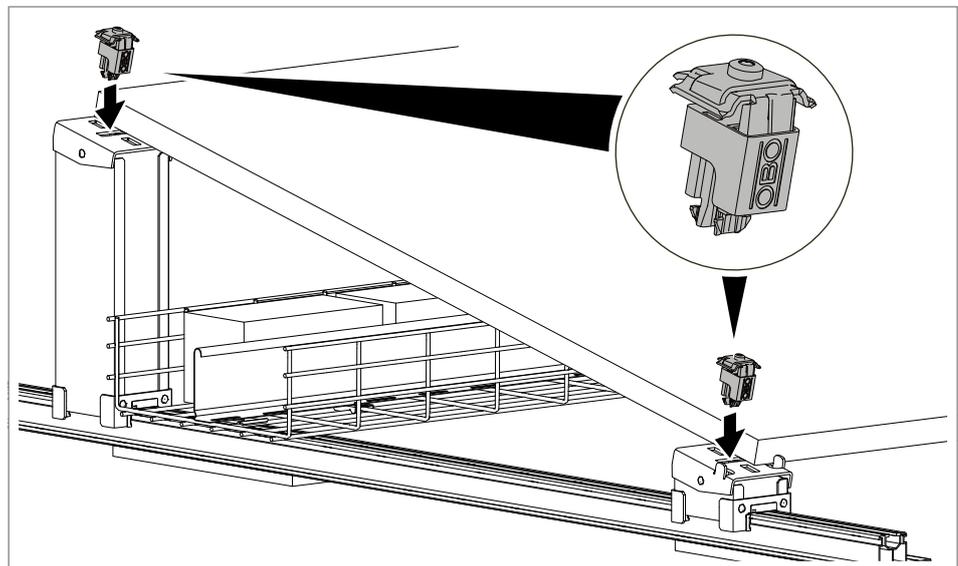


Fig. 16: Inserting universal clamps in slots

1. Insert universal clamps in the horizontal slots of the short and long support. The “OBO” label points to the bottom edge of the module.

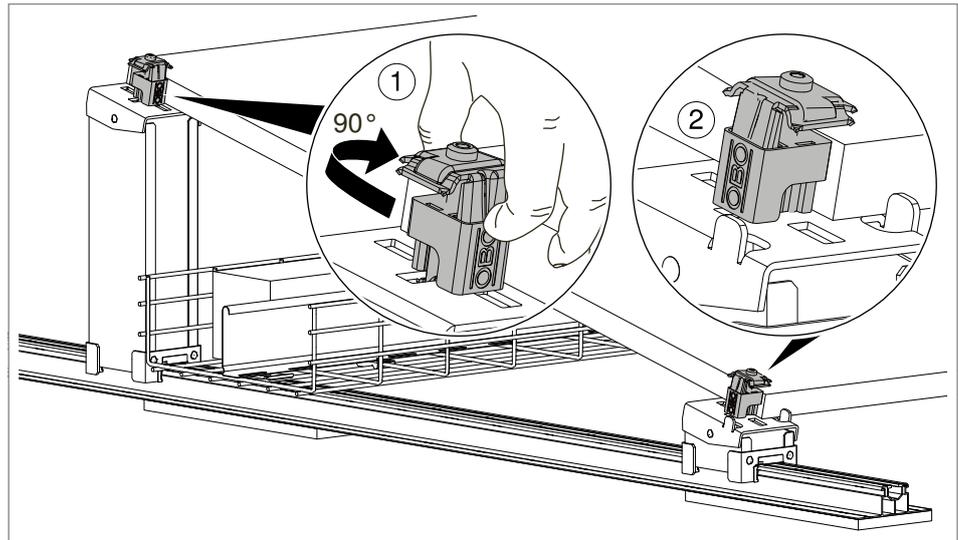


Fig. 17: Manually turn universal clamps

2. Turn the universal clamps through 90° in slots ①. The “OBO” label points outward ②.
3. Push the module up to the universal clamps.

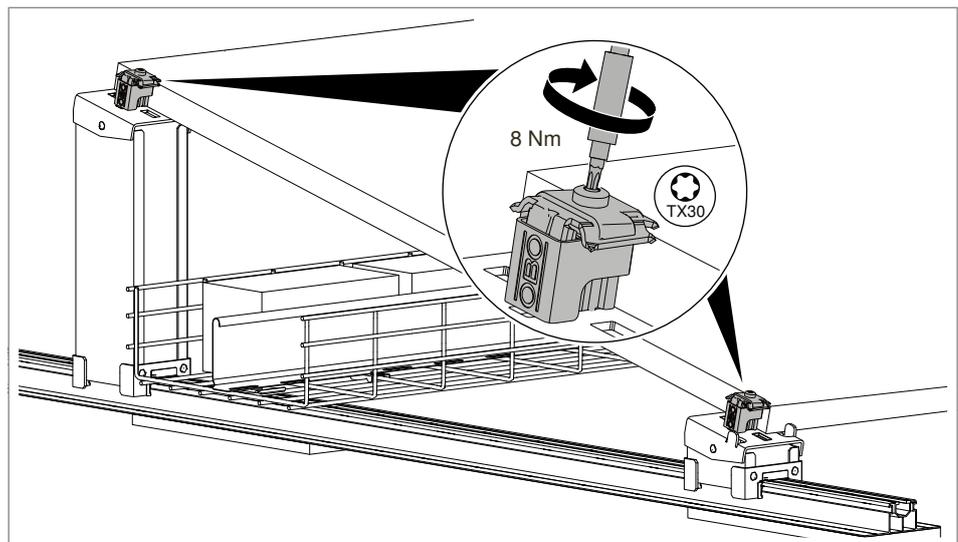


Fig. 18: Fastening universal clamps

4. Tighten the screws of the universal clamps with 8 Nm, in order to fasten the PV module to the supports (observe the max. tightening torque of the module manufacturer).
5. Add additional PV modules and fasten as middle clamps using universal clamps (see „6.8.2 Fastening PV module with middle clamps“ on page 22) or fasten the module with universal clamps as end clamps at the end of the module row.

6.8.2 Fastening PV module with middle clamps

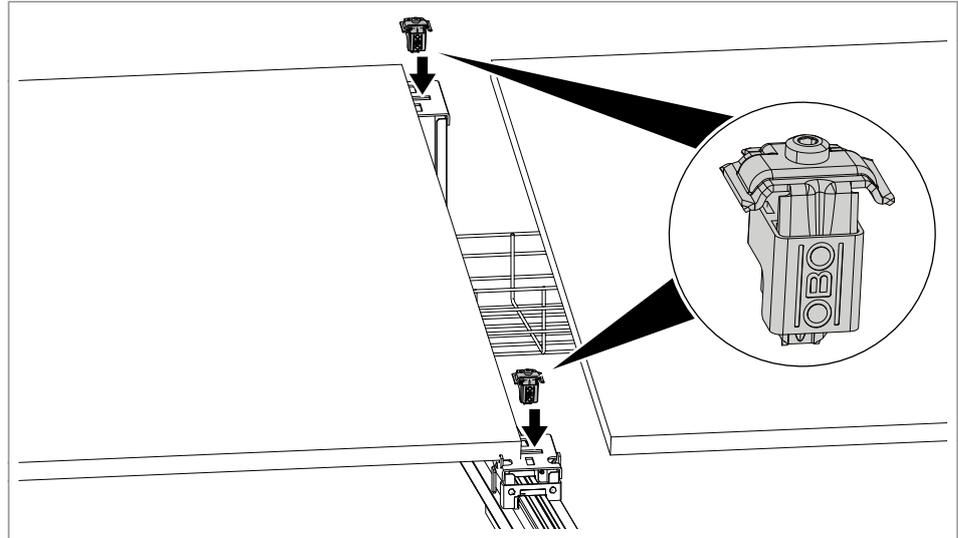


Fig. 19: Inserting universal clamps in slots

1. Insert universal clamps as middle clamps in the horizontal slots of the middle supports. The “OBO” label points to the top or bottom edge of the module.

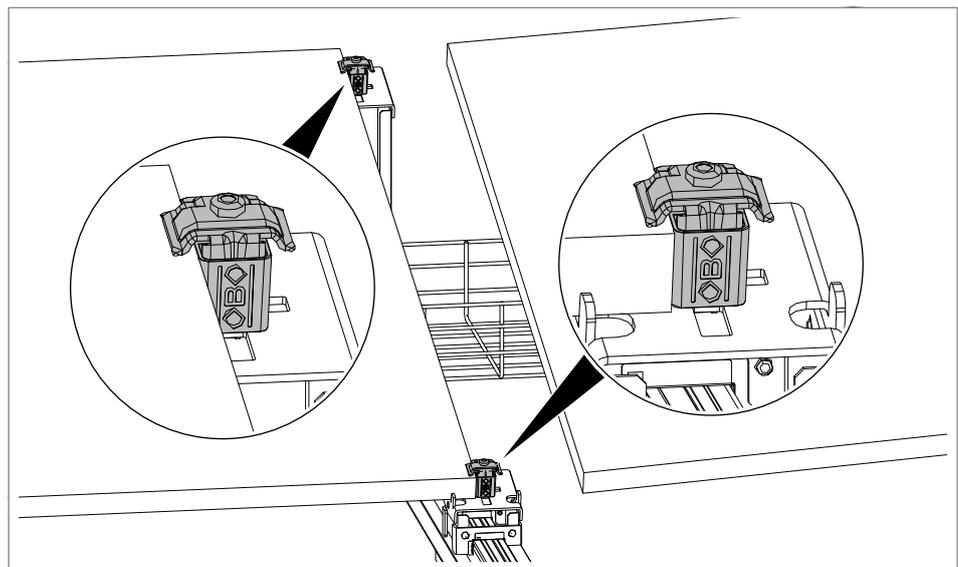


Fig. 20: Inserting universal clamps in horizontal slots

2. Place and align a further PV module and push it up to the universal clamps.

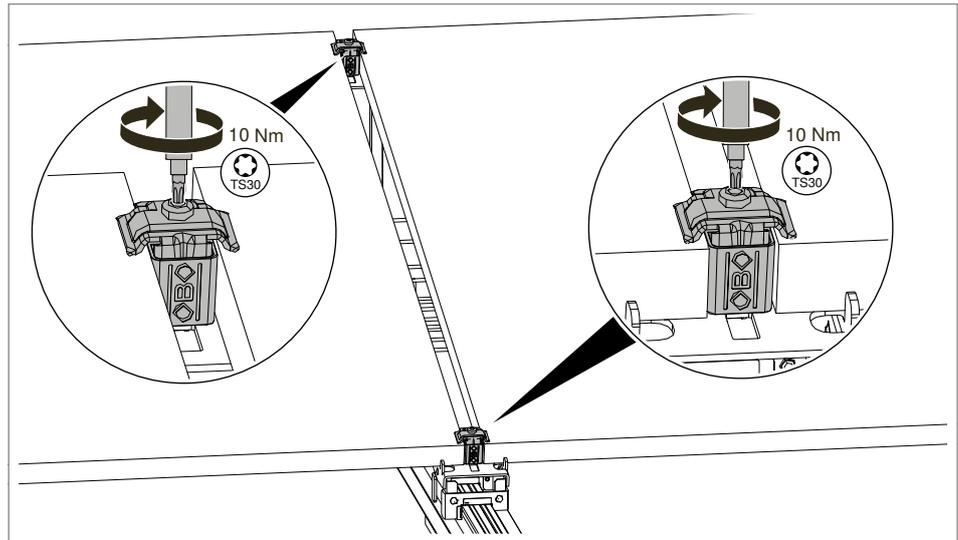


Fig. 21: Fastening PV modules with universal clamps in the middle

3. Tighten the screws of the universal clamps with 10 Nm, in order to fasten the two adjacent PV modules to the supports (observe the max. tightening torque of the module manufacturer).
4. Add additional PV modules and fasten as middle clamps using universal clamps or fasten the module with universal clamps as end clamps at the end of the module row.

6.8.3 Fastening PV modules at the top and bottom

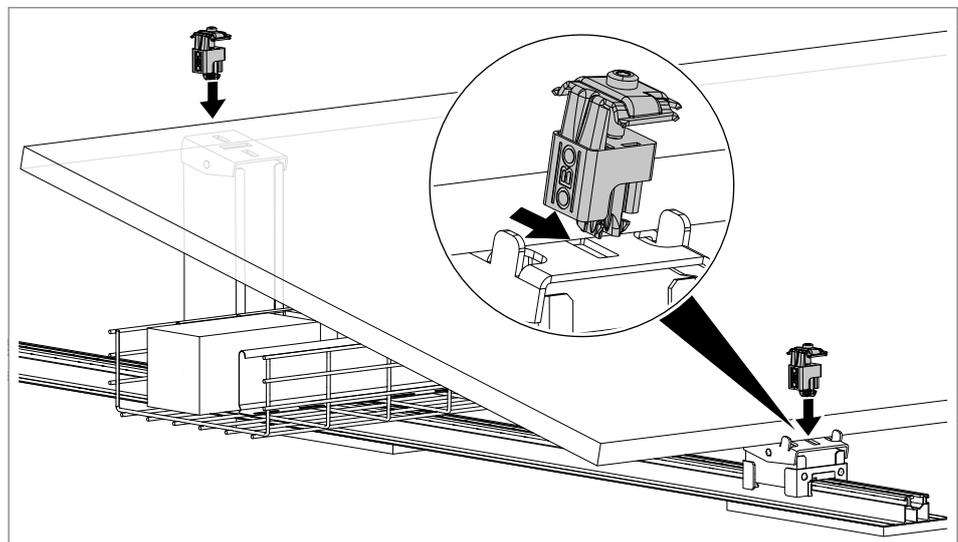


Fig. 22: Inserting universal clamps in vertical slots

1. Insert universal clamps in the vertical slots of the short and long support. The “OBO” label points to the side.

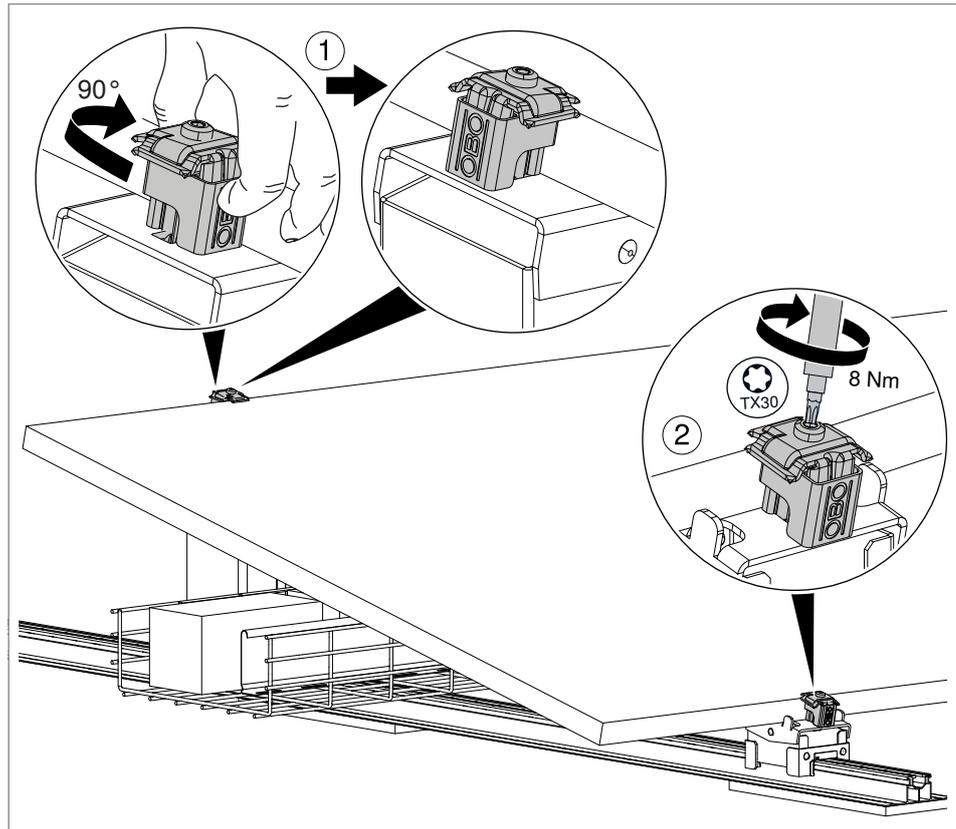


Fig. 23: Fastening universal clamps

2. Turn the universal clamps through 90° in the slots ①.
3. Tighten the screws of the universal clamps with 8 Nm ②, in order to fasten the PV module to the supports (observe the max. tightening torque of the module manufacturer).
4. Place additional PV modules and fasten with universal clamps.

6.9 Fastening the PV module with end/intermediate clamps with springs

The end clamps and intermediate clamps with springs offer a higher pressure surface and are used for higher snow and wind loads. The finished teeth on the connection plate press into the aluminium frame of the PV module, offering additional support. The size of the end and intermediate clamps depends on the module height and can be found in the PV mounting system planning.

The end/intermediate clamps can be used for the following:

- As an end clamp at the side edges of the module
- As a intermediate clamp for 2 modules placed next to each other on the same support
- As an end clamp at the bottom and top edges of the module, if four supports are required per module (quarter-point fastening).

6.9.1 Fastening the PV module with end clamps with springs at the sides

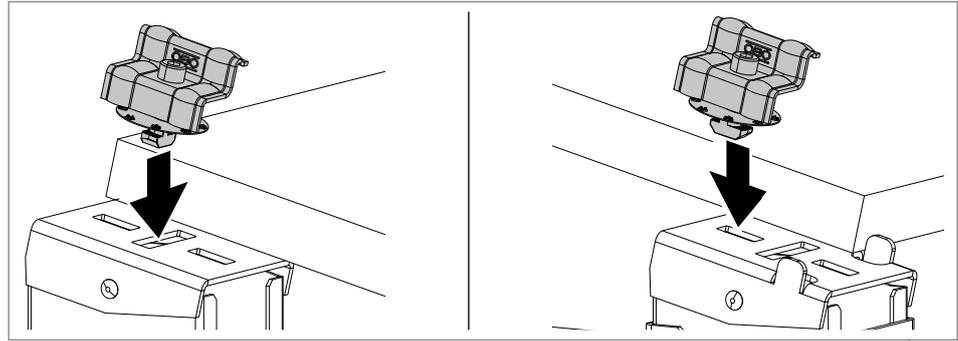


Fig. 24: Inserting end clamps in slots

1. Insert slide nuts of the end clamps in slots (long support = horizontal slot, short support = top vertical slot).

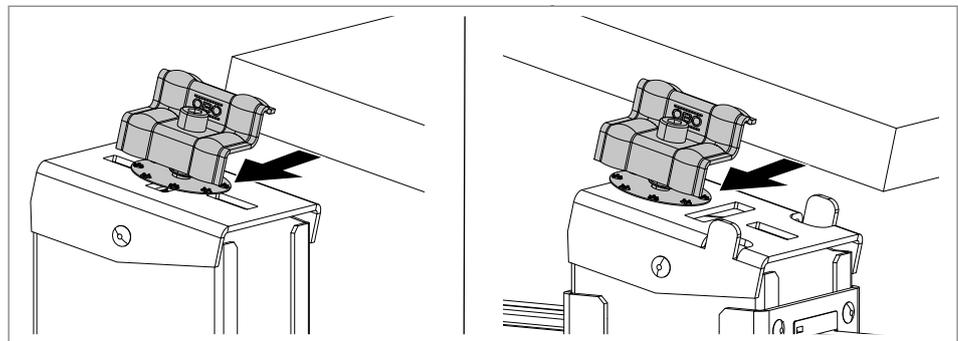


Fig. 25: Pushing module up to the end clamps

2. Push the PV module up to the end clamps at the top and bottom.

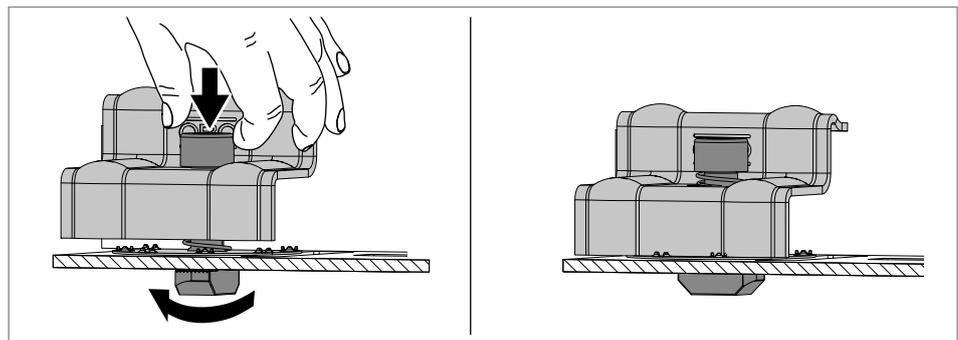


Fig. 26: Engaging the slide nut

3. Press down lightly on the screw with spring and turn until the slide nut engages.

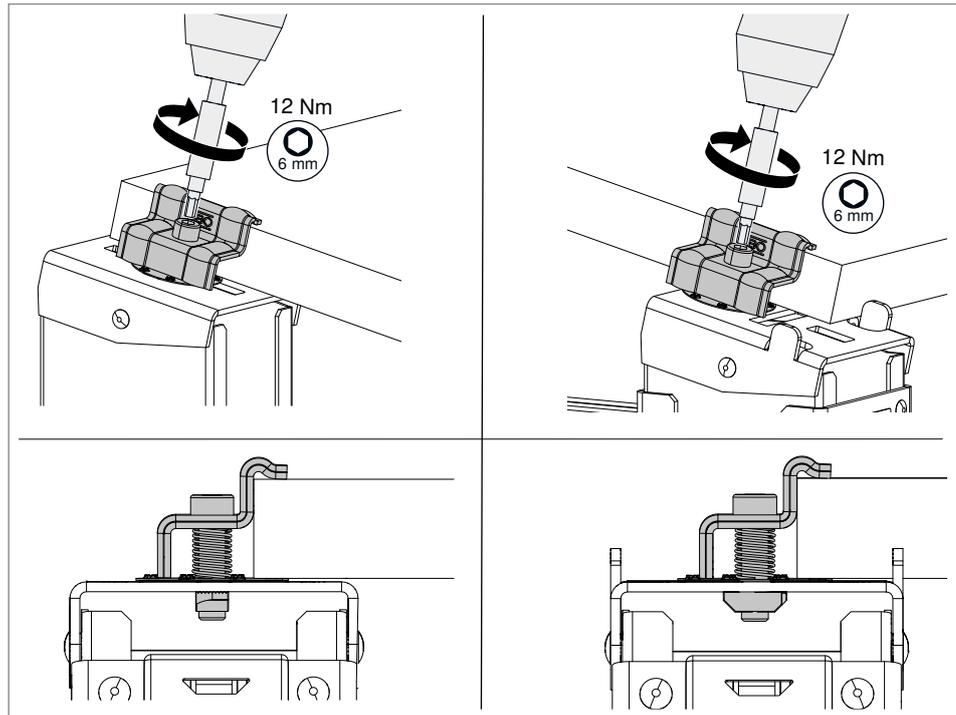


Fig. 27: Tightening the end clamp screws

4. Tighten the screws with 12 Nm.

6.9.2 Fastening PV modules with intermediate clamps with springs

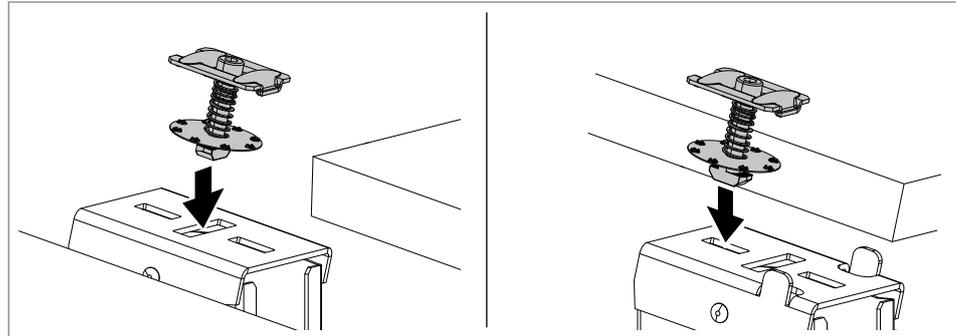


Fig. 28: Inserting intermediate clamps in slots

1. Insert slide nuts of the intermediate clamps in slots (long support = horizontal slot, short support = top vertical slot).

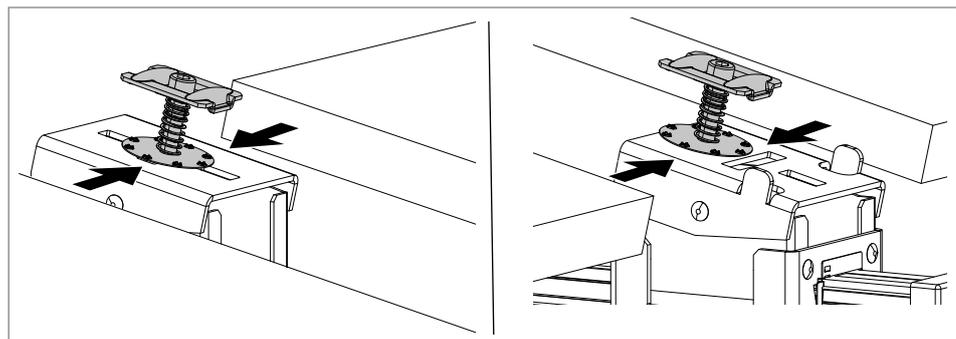


Fig. 29: Pushing module up to the intermediate clamps

2. Push the PV module up to the intermediate clamps at the top and bottom.

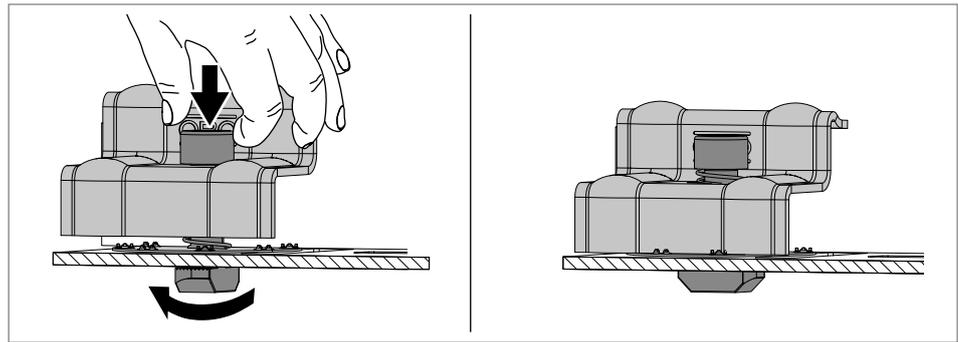


Fig. 30: Engaging the slide nut

3. Press down lightly on the screw with spring and turn until the slide nut engages.

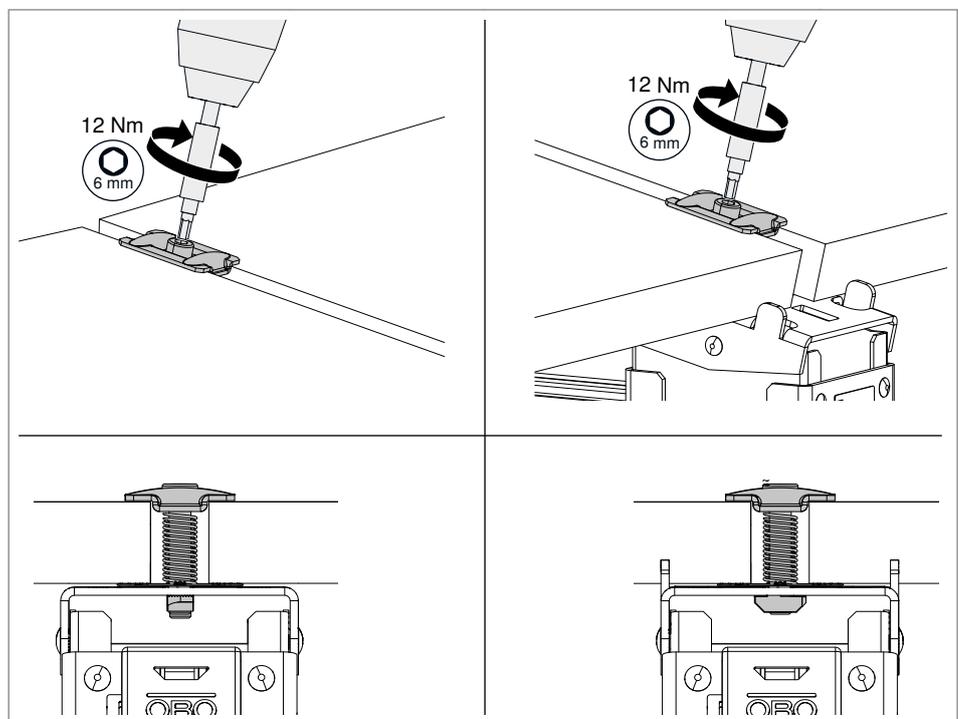


Fig. 31: Tightening the intermediate clamp screws

4. Tighten the screws with 12 Nm.

6.9.3 Fastening the PV module with end clamps with springs at the top and bottom

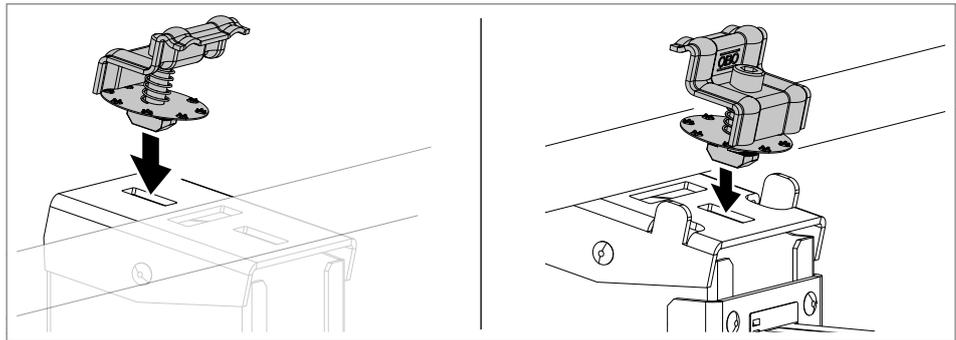


Fig. 32: Inserting end clamps with springs in slots

1. Insert slide nuts of the end clamps in vertical slots (long support = top slot, short support = bottom slot).

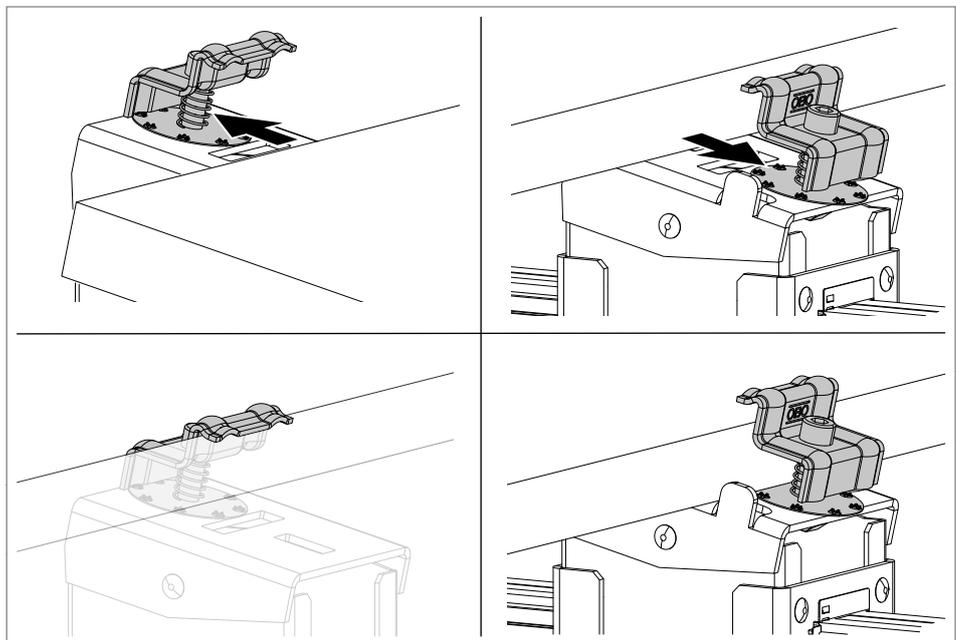


Fig. 33: Pushing module up to the end clamps

2. Push the PV module up to the end clamps at the top and bottom.

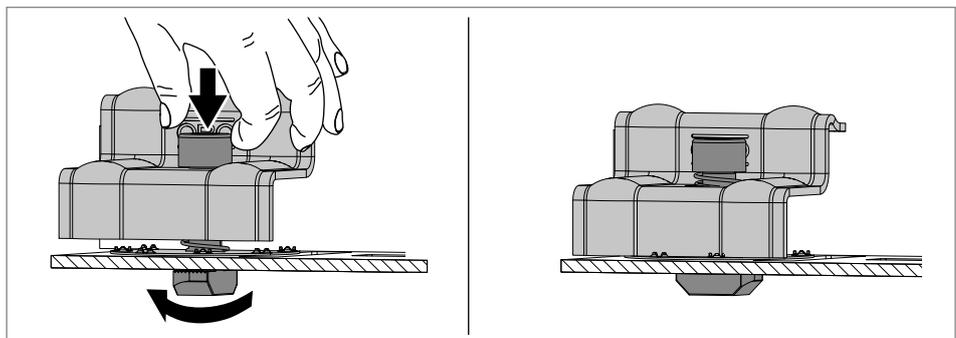


Fig. 34: Engaging the slide nut

3. Press down lightly on the screw with spring and turn until the slide nut engages.

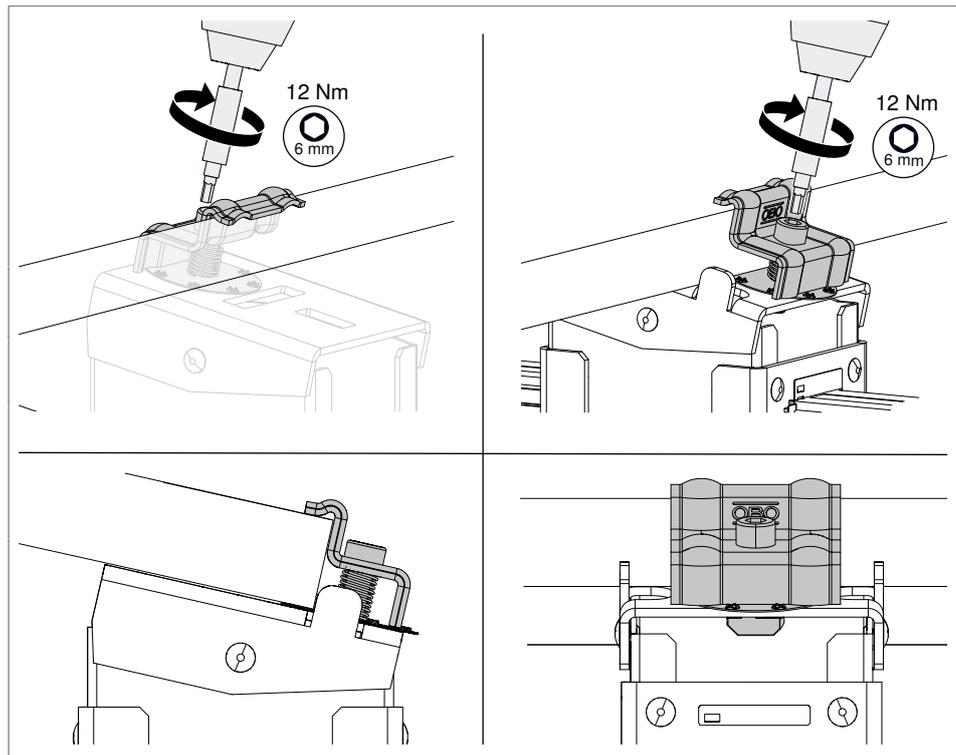


Fig. 35: Tightening the end clamp screws

4. Tighten the screws with 12 Nm.

6.10 Replacing the PV module

The following only shows the replacing of the PV module fastened with universal clamps. If the modules are fastened with end/intermediate clamps with springs, the screws of the clamps are unscrewed in the same way and the PV module removed accordingly.

6.10.1 Replacing with side and middle fastening

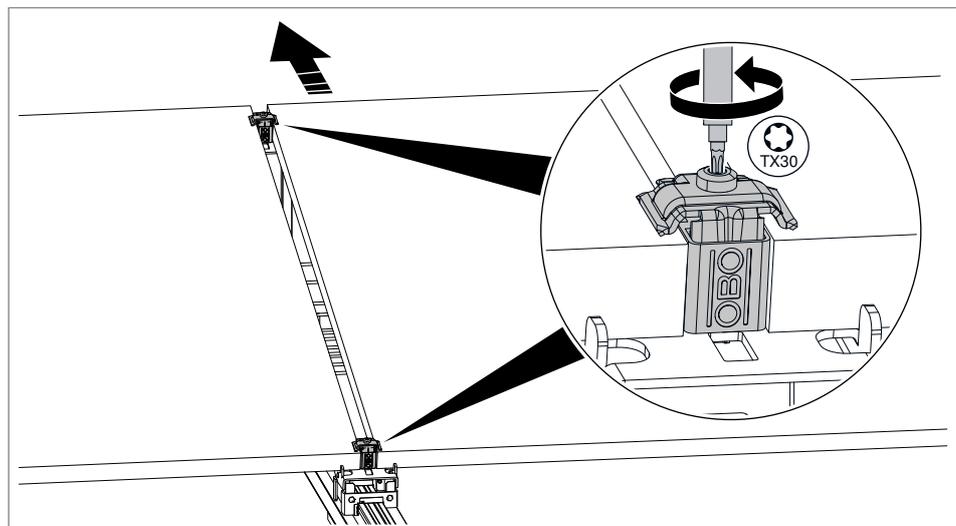


Fig. 36: Replacing the PV module, side and middle fastening

1. Unscrew the screws of the universal middle and end clamps slightly.

2. Push the PV module upwards and out to exchange it.
3. Push in the new PV module from above.
4. Fasten the universal clamps with the prescribed tightening torque.

6.10.2 Replacing with top and bottom fastening

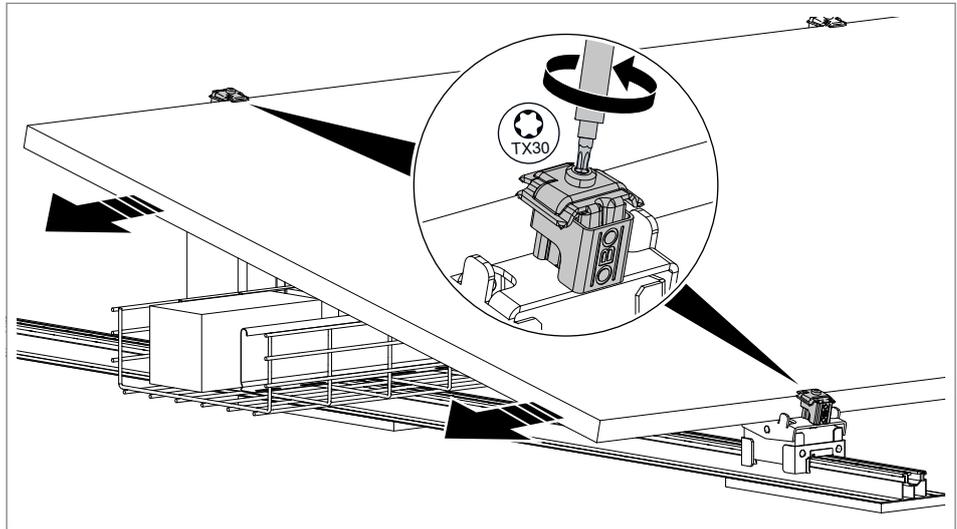


Fig. 37: Replacing the PV module, top and bottom fastening

1. Loosen the screws on the universal clamps slightly.
2. Slide the PV module out at the side to replace it.
3. Push in the new PV module at the side.
4. Fasten the universal clamps with the prescribed tightening torque.

6.11 Mounting the windbreak

To prevent the PV mounting system from becoming unstable or damaged due to the impact of wind from below, windbreaks must be mounted on the long supports of south-facing PV systems.

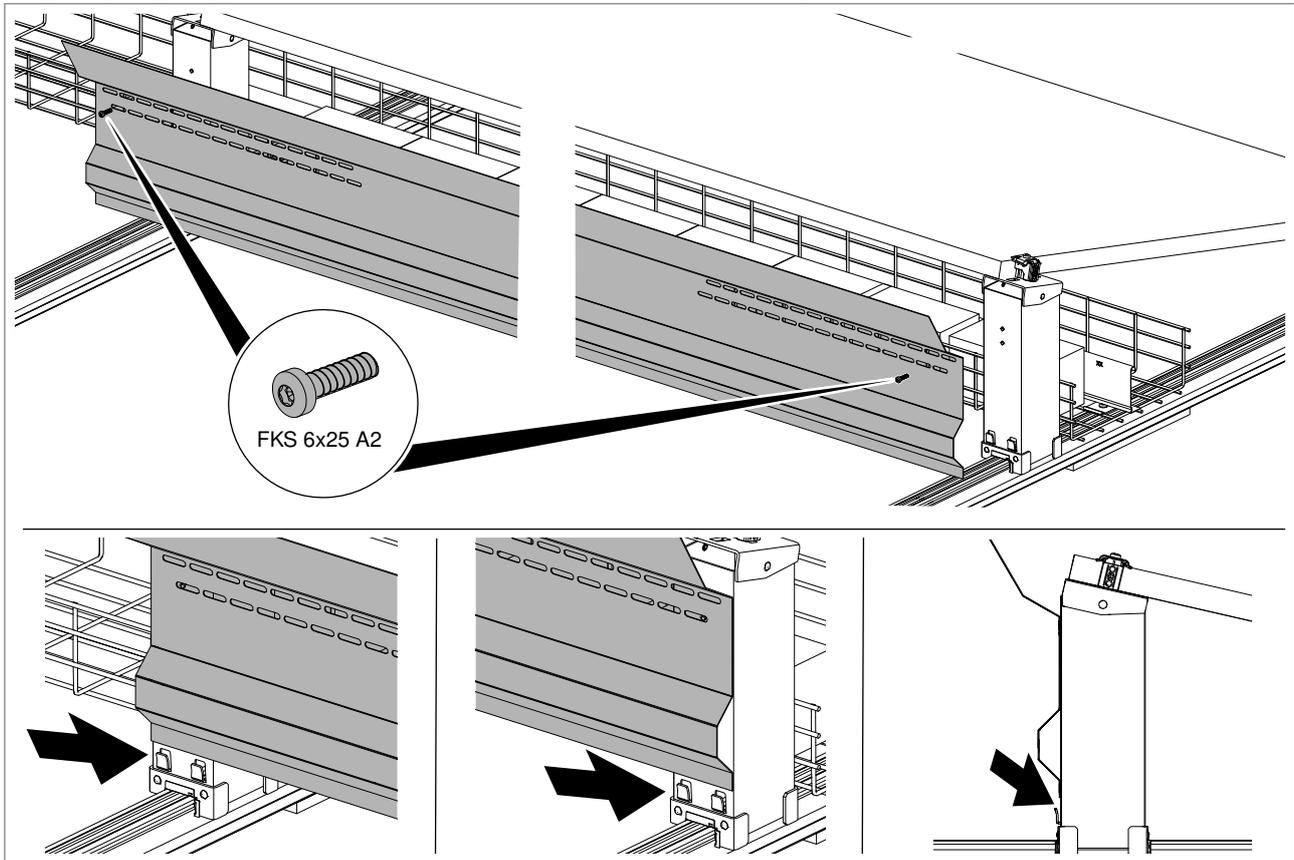


Fig. 38: Clamping the windbreak

1. Clamp the windbreak behind the straps on the rear side of the long supports.

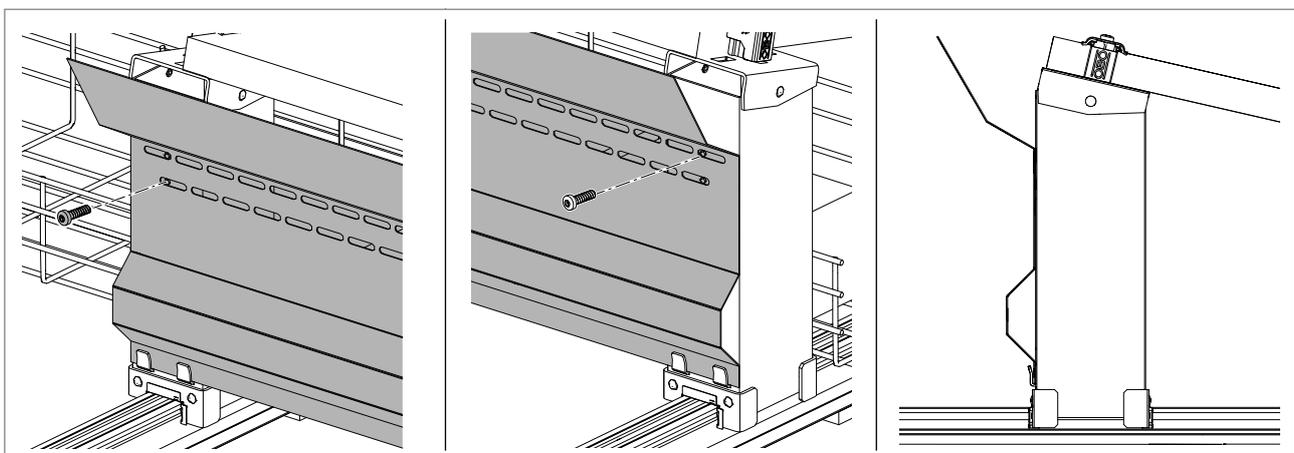


Fig. 39: Screwing on the windbreak

2. Screw the windbreak to long supports with FKS 6x25 screws (6 Nm), using the pre-drilled fastening holes.

6.12 Integrating the system into the equipotential bonding and/or lightning protection system

To ensure the safety of the PV system, it must be integrated into the equipotential bonding system. If the risk analysis according to DIN EN 62305-2 requires an external lightning protection system for the building, and if the separation distance between the PV system and the lightning protection system cannot be maintained, then both of these systems must be interconnected so that they can carry lightning current.

The universal earthing clamp can be used for both applications. The individual truss profiles must be interconnected, in order to guarantee continuous, low-ohmic equipotential bonding.

A round conductor of \varnothing 8–10 mm and/or an equipotential bonding conductor of 6–50 mm² can be mounted on the universal earthing clamp.



WARNING

Risk of electric shock!

In the case of a lightning strike in the lightning protection system, lethal voltages can occur in the system. Do not work on the lightning protection system during a thunderstorm or if there is the risk of one.

1. If the truss profile is anodised, the anodisation must be removed from the accessible contact surfaces between the universal earthing clamp and the truss profile in order to ensure low-resistance contact.

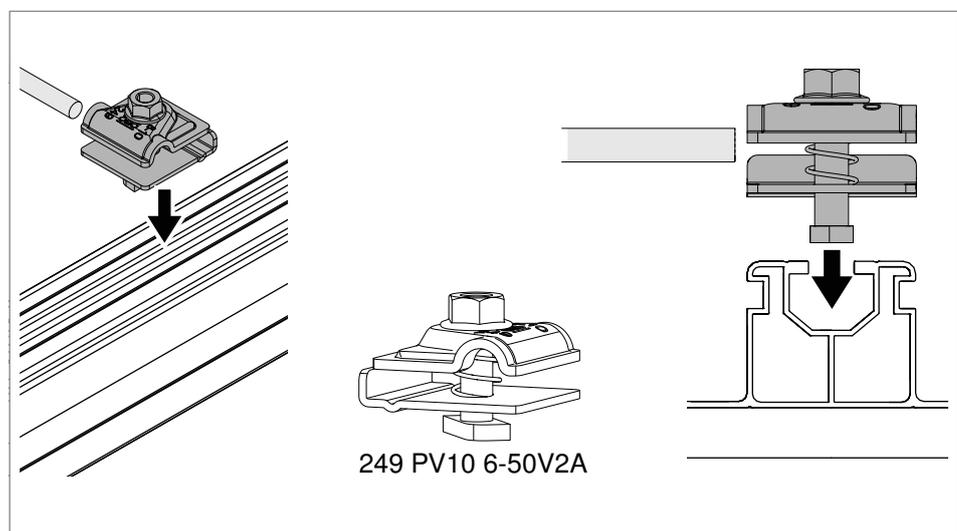


Fig. 40: Inserting the universal earthing clamp in the truss profile

2. Insert the hammerhead bolt of the universal earthing clamp in the truss profile.

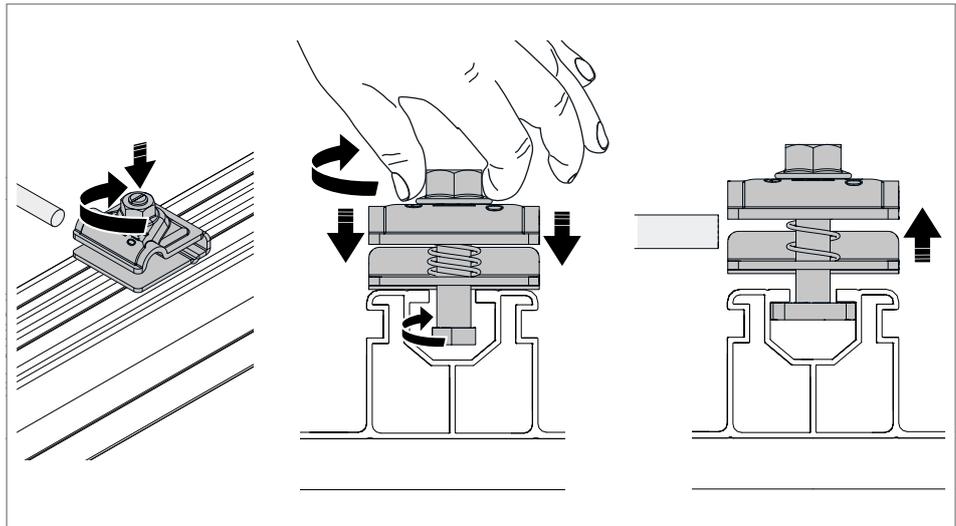


Fig. 41: Engaging the hammerhead bolt in the truss profile

3. Push the hammerhead bolt with spring downwards, turn it through 45° and release it. In so doing, ensure that the hammerhead is firmly engaged in the truss profile.

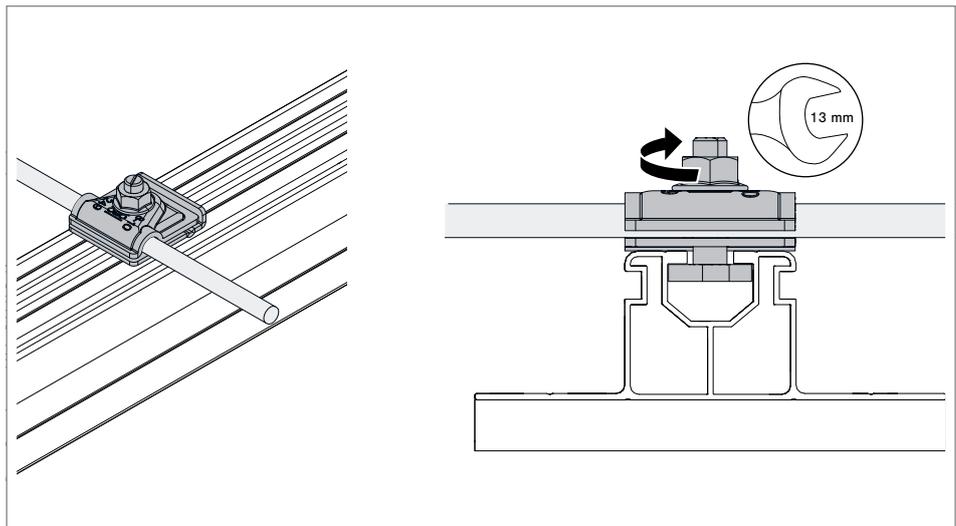


Fig. 42: Mounting the conductor in the universal earthing clamp

4. Insert the round conductor and/or equipotential bonding conductor.
5. Tighten the nut of the clamp with 15 Nm.

7 Maintaining the system

The PV mounting systems must be maintained once a year. Maintenance includes a visual inspection as well as the testing of different system components, repairing damage and removing impurities.

Visual inspection of the system

- Repair any obvious damage such as corrosion, deformations or cracks.
- Tighten the module fastenings, such as loose screws or clamps.
- Repair or replace worn materials, e.g. seals or fastenings.
- Check the number and condition of the ballast blocks and increase and/or replace if necessary.
- If installed, check the state and position of the building protection mats and fix them if necessary.

Check the fastening system

- Check the stability and secure positioning of the support structure and repair if necessary.
- Check the tightening torque of screws, nuts and connection elements and tighten if necessary.
- Check the wind and snow load protection and repair or replace if necessary.

Check the seals and corrosion protection

- Check the roof seal in the area of the fastening points and repair or replace if necessary.
- Identify any potential water entry points and seal if necessary.
- Check corrosion protection and repair if necessary.

Check the electrical components

- Perform a visual inspection of the cable paths and plug connections and repair if necessary.
- Repair any damage due to UV radiation, animals or mechanical loads.
- Ensure proper earthing of the mounting system.

Clean the system

- Eliminate any impurities that can negatively affect performance.
- If necessary, remove dirt and leaves from the support structure.

8 Dismantling the system

The PV mounting systems are dismantled in the reverse order to the mounting. The universal clamp cannot be dismantled without being destroyed. The long and short supports can be dismantled with a dismantling tool, which is included with the truss profiles.

8.1 Dismantling the short and long supports

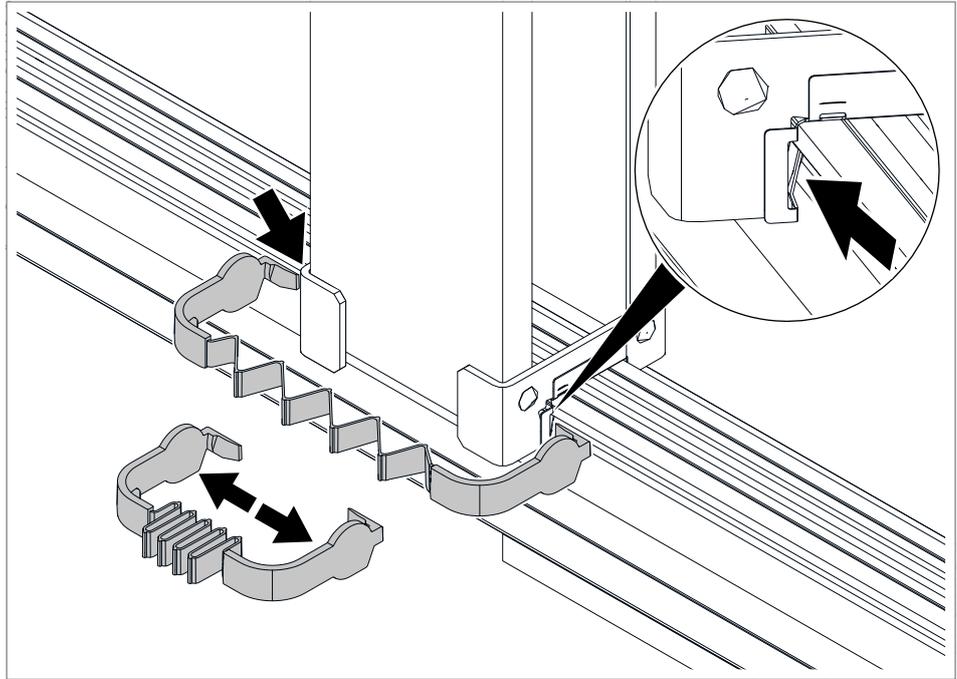


Fig. 43: Applying the dismantling tool

1. Pull the dismantling tool apart and apply it to the springs of the support.

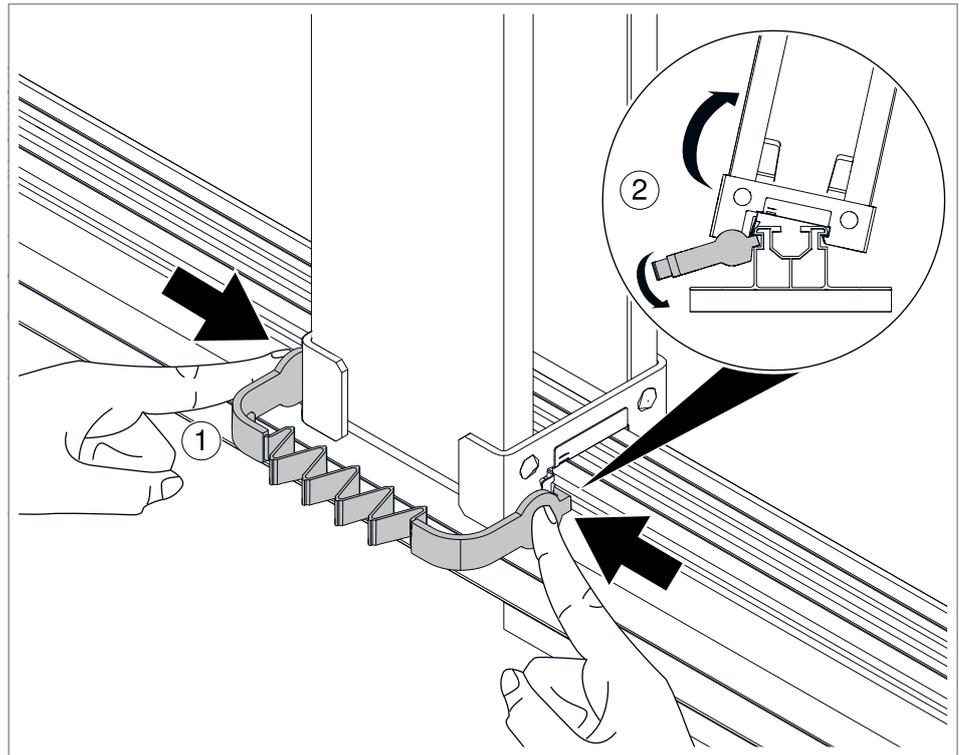


Fig. 44: Removing the support

2. Push the dismantling tool together ① to open the springs.
3. Press down on the dismantling tool to tilt the support and remove it ②.

9 Disposing of the system

Comply with the local waste disposal regulations.

- Metal parts: As scrap metal
- Plastic parts/accessories: As plastic
- Packaging: As household waste/as metal (depending on packaging type)

10 Technical data

Additional parameters

Straight connector LV 35 DD suitable for indoor and outdoor areas.
Releasable connection, not suitable for accepting a static mechanical load.

Lightning current carrying capacity for:

- TPF 35 5000 ALU / TPF 35 5000 ALU class H, in longitudinal arrangement

Designation	Type	Dimension mm	Material/surface	Item number
Truss profile, for flat roof systems	TPF 35 5000 ALU	110 x 47 x 5,000	Aluminium	5900370
Short support for flat-roof systems	STK DD	86 x 166 x 107	Steel double dip	5901650
Long support for flat roof system	STL DD	86 x 166 x 300	Steel double dip	5901655
Universal clamp, for flat/pitched roof system	KLU A2	41 x 42 x 79	Stainless steel A2	5901010
Universal clamp, for flat/pitched roof system	KLU A2 S	41 x 42 x 79	Stainless steel A2 black	5901012
End clamp with spring	KLE F 25 A2	56x46x48	Stainless steel A2	5901092
	KLE F 30 A2	56x46x53		5901093
	KLE F 35 A2	56x46x58		5901094
	KLE F 40 A2	56x46x63		5901095
Intermediate clamp with spring	KLZ F 25 A2	50x40x48	Stainless steel A2	5901062
	KLZ F 30 A2	50x40x53		5901063
	KLZ F 35 A2	50x40x58		5901064
	KLZ F 40 A2	50x40x63		5901065
Mesh cable tray	GRM 55 200 FT	55x200x3,000	Hot-dip galvanised steel	6001420
	GRM 55 300 FT	55x300x3,000		6001424
	GRM 55 400 FT	55x400x3,000		6001428
	GRM 55 500 FT	55x500x3,000		6001432
	GRM 55 600 FT	55x600x3,000		6001436
Mesh cable tray	GRM 105 200 FT	105x200x3,000	Hot-dip galvanised steel	6002435
	GRM 105 300 FT	105x300x3,000		6002437
	GRM 105 400 FT	105x400x3,000		6002439
	GRM 105 500 FT	105x500x3,000		6002443
	GRM 105 600 FT	105x600x3,000		6002445
Fastening set for mesh cable trays for flat roof systems	BF GR	60x40x20	Hot-dip galvanised steel	5901770
Barrier strip	TSG 45 DD	45x2,995	Steel double dip	6062321
Barrier strip	TSG 45 DD	85x2,995	Steel double dip	6062331
Barrier strip connector, for all barrier strip side heights	TSGV A2	60x20x15	Stainless steel A2	6067970
Hold-down clamp, for barrier strip fastening	KS GR A2	41.5x26	Stainless steel A2	6062282
Universal earthing clamp PV	249 PV10 6-50V2A	43x40x34	Stainless steel A2	5051520
Straight connector for truss profile	LV 35 DD	44.4x36.4x160	Steel double dip	5901210
Windbreak for flat roof systems	WSB 2200 DD	44x372x2,200	Steel double dip	5901610
Flat head screw for windbreak	FKS 6x25 A2	Ø 12x30	Stainless steel A2	5901880
Dismantling tool	Does not need to be ordered separately, included with the truss profiles			

Tab. 3: Technical data

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Building Connections

