Installation Instructions

WAREMA Lamaxa slat roof L60

Update/change

- Revision: integrated awning with easyZIP guidance
- Round drainage added
- Revision: weather station

Valid from 24 April 2026
For qualified technicians only
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Der SonnenLichtManager

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1 Safety and product information

Warnings are marked in the instructions with this symbol.

- Read through the product instructions before use.
- Observe all safety and setting instructions.

The basic safety instructions can be viewed under (**www.warema.de/Sicherheitshinweise**).

Target group

These instructions are intended for use by qualified specialists and fitters.

Activities that pertain to the slat roof structure are only permitted to be performed by qualified fitters.

Activities that pertain to the electrical connection of the components within the slat roof are only permitted to be performed by certified electricians.

Activities that pertain to the electrical building installation are permitted to be performed by an installation company registered in the installers directory of the network operator.

Permissible activities

Performing tasks on the product that are not described in these instructions is not permissible. No other alterations are to be carried out on the product other than as described in these instructions without the written approval of WAREMA.

If any questions arise before or during installation, please send an e-mail to **service@warema.de** or call +49 9391 20-9333.

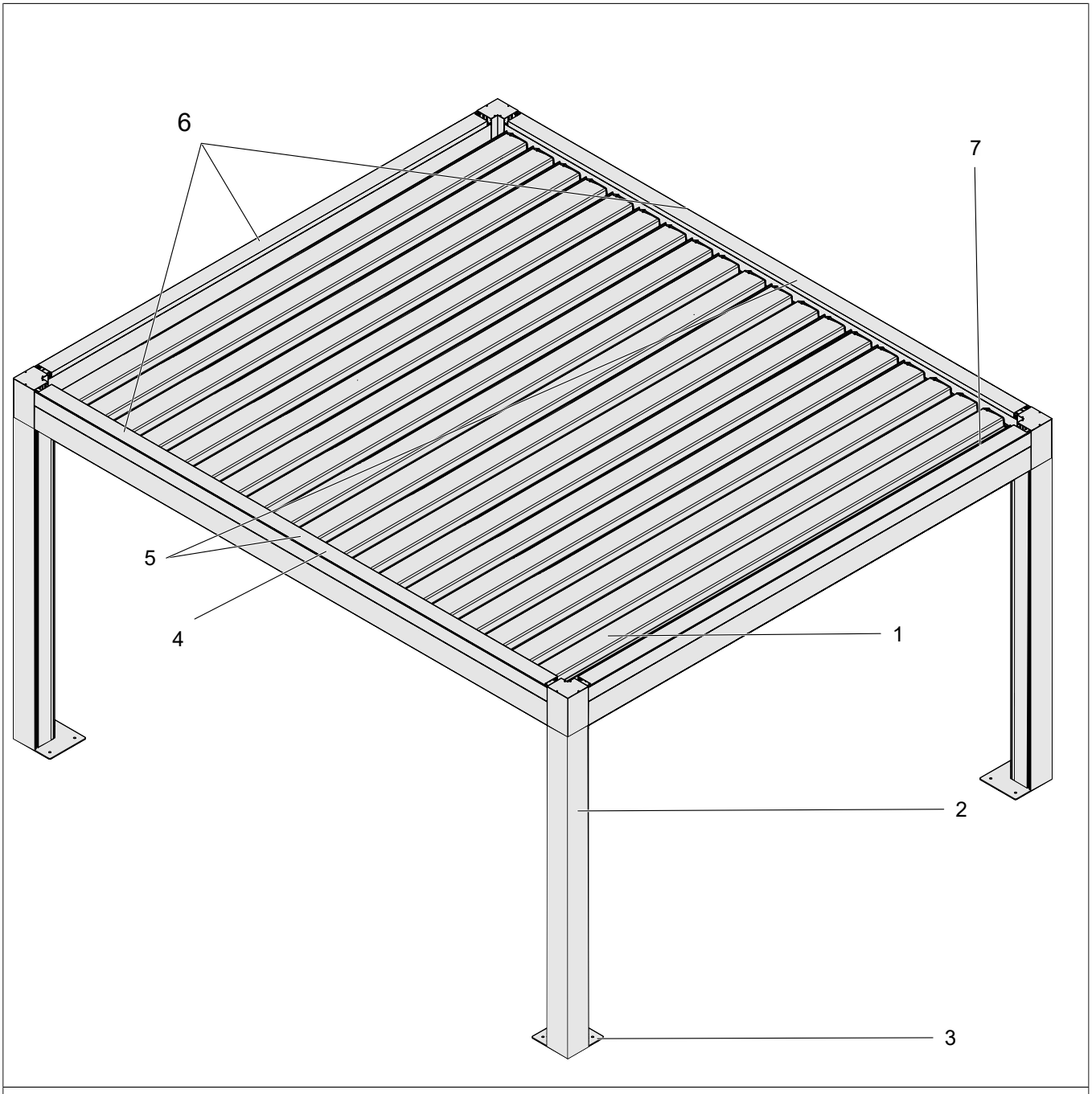
Intended use

The following details apply to the following product: Lamaxa slat roof L60

The roof system is an open outdoor canopy made from aluminium rather than a self-contained insulated conservatory. Thus, it cannot be guaranteed that the structure will be 100% water-proof.

2 Technical data

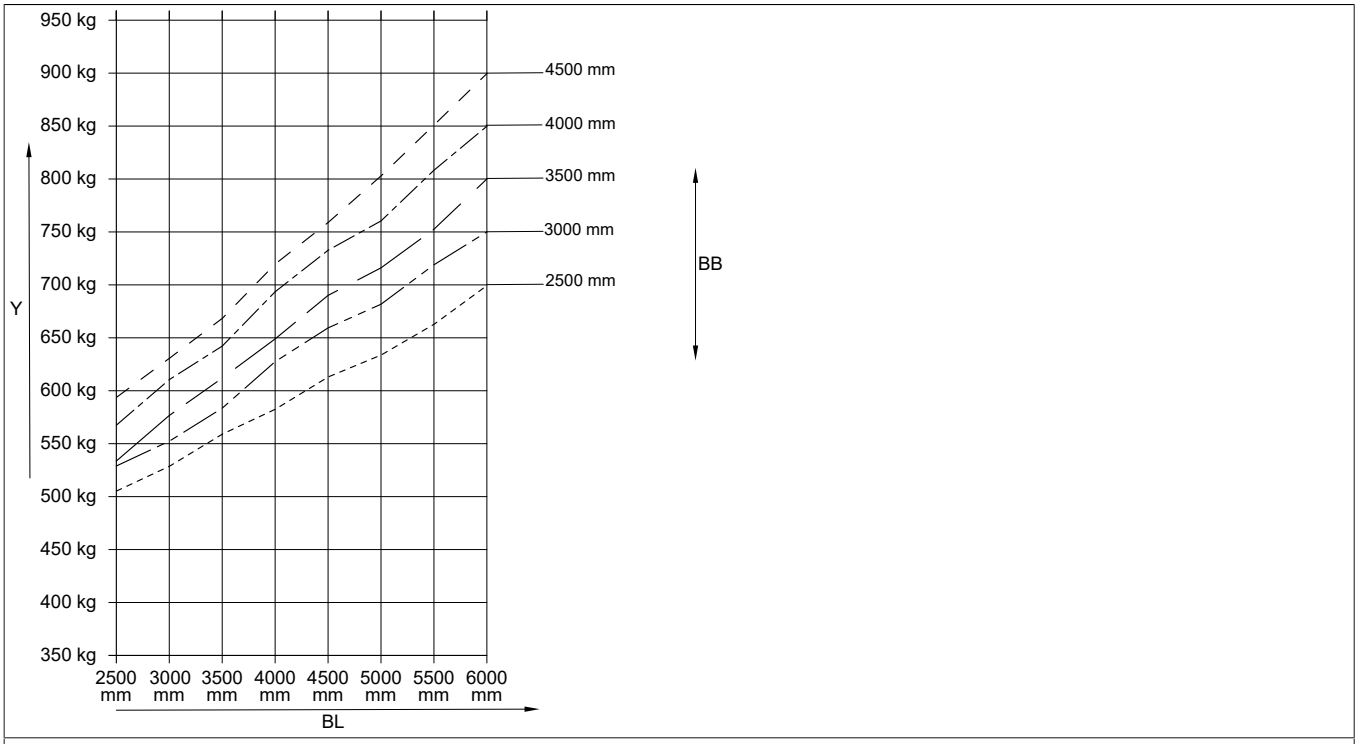
Parts description



1	Slats	5	Beams with slat seat
2	Pole	6	Rain hood
3	Base plate	7	Partition compensation plate
4	Push rod (lies covered in the beam)		

Fig. 1: Parts description

Weights



BB	Order width [mm]	Y	Weight
BL	Order length		

Wind resistance Slat roof

The maximum permitted wind speed (wind speed limit) for the product with open slats is: 13 m/s (corresponds to approx. 38 to 48 km/h / Beaufort 6)

If the maximum wind speed of 13 m/s (corresponds to approx. 48 km/h) is reached, the slats must be closed.

The installed product will meet the requirements of the specified wind speed if the instructions below are followed during the installation:

- The fixing material used must be suitable for the mounting substructure (the fitter is responsible for the right selection).
- The installation specifications from the fixing material manufacturer must be adhered to (the fitter is responsible for adherence).

Resistance against water collection

The product fulfils performance class 2.

The product offers protection against the weather when the slats are closed.

Maximum snow load on slat roof

Order length in [mm]	Order width in [mm]									
	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750
2000	300	260	210	170	120	115	90	70	52	28
2178	300	260	210	170	120	115	90	70	52	28
2398	300	260	210	170	120	115	90	70	52	28
2618	300	260	210	170	120	115	90	70	52	28
2838	300	260	210	170	120	115	90	70	52	28
3058	300	260	210	170	120	115	90	70	52	28
3278	300	260	210	170	120	115	90	70	52	28
3498	300	260	210	170	120	115	90	70	52	28
3718	300	260	210	170	120	115	90	70	52	28
3938	300	260	210	170	120	115	90	70	52	28
4158	300	260	210	170	120	115	90	70	52	28
4378	300	260	210	170	120	115	90	70	52	28
4598	300	260	210	170	120	115	90	70	52	28
4818	300	260	210	170	120	115	90	70	52	28
5038	300	260	210	170	120	115	90	70	52	28
5258	300	260	210	170	120	115	90	70	52	28
5478	300	260	210	170	120	115	90	70	52	28
5698	280	260	210	170	120	115	90	70	52	28
5918	260	250	210	170	140	115	90	70	52	28
6000	250	240	210	170	140	115	90	70	52	28
6138	240	230	210	170	140	115	90	70	52	28
6330	230	220	210	170	140	115	90	70	52	28

Tab. 1: Maximum snow load on the slat roof Lamaxa L60 [kg/m^2]

Wind resistance Integrated awning with easyZIP guidance - data on the maximum permissible wind speed limits (optional)

Wind speed limits are the maximum permissible wind speeds which must not be exceeded. When the wind speed limits are reached, the product must be raised.

If a wind sensor is used (recommended by WAREMA), it must be ensured that the set wind speed limit relates to the wind speeds that actually occur at the product. It is recommended that the wind sensor is set one level lower than determined (e.g. to 7 m/s instead of 10 m/s) to enable the product to be raised while also taking gusts of wind into account.

INFO
Due to their design, awnings with easyZIP guidance are able to withstand much higher wind speeds when extended than while they are extending.

The supplied product features a new motor with a responsive obstacle detection mechanism. The motor is capable of detecting an excessive wind load while the product is being lowered, which means that the product is stopped temporarily while it is moving.

Wind resistance Integrated awning with easyZIP guidance - data on the maximum permissible wind speed limits for ground-level installation of the roof system (optional)

Basis for the following table

- ▶ Raise the awning.
- ▶ Installation: Installation on the roof system/ground-level installation location of the roof system

Order height in [mm]	Order width in [mm]										
	up to 1000	up to 1500	up to 2000	up to 2500	up to 3000	up to 3500	up to 4000	up to 4500	up to 5000	up to 5500	up to 6000
up to 1000	24	24	24	20	20	20	20	20	20	17	17
up to 1500	24	24	20	17	17	17	17	17	17	13	13
up to 2000	24	20	17	17	13	13	13	13	13	13	13
up to 2500	20	17	17	13	13	13	13	13	13	13	13
up to 3000	20	17	13	13	13	13	13	13	13	13	10

Tab. 2: Wind speed limits for awning with easyZIP guidance (motor with obstacle detection) for raising when the roof system is installed at ground level (details in m/s)

The permissible wind speed is reduced in defined levels (see Tab. 4).

Wind resistance Integrated awning with easyZIP guidance - data on the maximum permissible wind speed limits for non-ground-level installation of the roof system (optional)

Basis for the following table

- ▶ Raise the awning.
- ▶ Installation: Installation of the roof system/installation of the roof system not at ground level

Order height in [mm]	Order width in [mm]										
	up to 1000	up to 1500	up to 2000	up to 2500	up to 3000	up to 3500	up to 4000	up to 4500	up to 5000	up to 5500	up to 6000
up to 1000	20	20	20	17	17	17	17	17	17	13	13
up to 1500	20	20	17	13	13	13	13	13	13	10	10
up to 2000	20	17	13	13	10	10	10	10	10	10	10
up to 2500	17	13	13	10	10	10	10	10	10	10	10
up to 3000	17	13	10	10	10	10	10	10	10	10	7

Tab. 3: Wind speed limits for awning with easyZIP guidance (motor with obstacle detection) for raising when the roof system is not installed at ground level (details in m/s)

The permissible wind speed is reduced in defined levels (see Tab. 4).

Wind resistance Integrated awning with easyZIP guidance - data on the maximum permissible wind speed limits - calculation example (optional)

0	1	3	5	7	10	13	17	20	24	28	32

Tab. 4: Levels for determining the wind speed limits (details in m/s)

If the wind speed is reduced by, for example, 1 level, the value listed one column to the left must be used.

Basis for calculation:

- Order width: 4000 mm
- Order height: 1500 mm
- Screen 4% / 5%

Determined values:

Ground-level installation location

- Wind speed limit as per table: 17 m/s
- Wind speed limit to be set on wind sensor: 13 m/s

Installation location not at ground level

- Wind speed limit as per table: 13 m/s
- Wind speed limit to be set on wind sensor: 10 m/s

Electric drive data Slat roof

INFO
Observe the separate instructions for the motor.

Electric drive data Integrated awning with easyZIP guidance (optional)

INFO
Observe the separate instructions for the motor.

Technical data LED strip/RGB strip (optional)

Parameter	Data LED strips[1]	Data RGB strips
Operating voltage [V DC]	24	24
Degree of protection	IP 67	IP 54
Max. power [W/m]	4.8	12
Max. light power [lm/m]	400	-
Colour temperature [Kelvin]	3000	-

Tab. 5: Data for LED strips/RGB strips (optional)

1 Energy efficiency class: no data necessary [2]

[2] According to the Ecodesign Regulation (EU) 2019/2020 (as of 1 October 2019) on the energy efficiency of light sources, the lighting of this product (surrounding product) contains a removable light source that is outside the scope of the regulation (luminous flux of the smallest unit of the light source < 60 lumens). Therefore, the labelling obligation according to Ecodesign Regulation (EU) 2019/2015 (as of 11 March 2019) Annex II on energy consumption labelling does not apply.

<table>
<tr><th>Parameter</th><th>Data WMS Dimmer smart</th><th>Data ZigBee RGB Dimmer smart</th></tr>
<tr><td>Operating voltage [V AC]</td><td>200 - 240</td><td>200 - 240</td></tr>
<tr><td>Frequency [Hz]</td><td>50 - 60</td><td>50 - 60</td></tr>
<tr><td>Load current [A] at 230 V AC</td><td>6.0</td><td>-</td></tr>
<tr><td>Operating voltage [V DC]</td><td>24</td><td>24</td></tr>
<tr><td>Switching capacity [W] at 24 V DC</td><td><table><tr><th>With WMS Dimmer smart xx</th><th>[W]</th></tr><tr><td>60 L (Art. no. 2023455)</td><td>55</td></tr><tr><td>100 L (Art. no. 2023456)</td><td>95</td></tr><tr><td>200 L (Art. no. 2023457)</td><td>150</td></tr></table></td><td><table><tr><th>With ZigBee RGB Dimmer smart xx</th><th>[W]</th></tr><tr><td>150 W (Art. no. 2031738)</td><td>145</td></tr></table></td></tr>
<tr><td>Degree of protection</td><td>IP 54</td><td>IP 54</td></tr>
<tr><td>Safety class</td><td>I</td><td>I</td></tr>
<tr><td>Operating and storage temperature [°C]</td><td>-20 to +55</td><td>-20 to +55</td></tr>
</table>

Tab. 6: Data for WMS Dimmer smart/ZigBee RGB Dimmer smart (optional)

Technical data Design radiant heater (optionally dimmable) (optional)

INFO
C16 fuse: For the radiant heater, an in-line circuit breaker with type C16 is **mandatory**.

Parameter	Data
Mains voltage	230 - 240 VAC/50 Hz
Power consumption [W]	2200
Power consumption in standby [W]	0.7
Degree of protection	IP 65
Safety class	I

Tab. 7: Data for the Design radiant heater

Optional: A WMS Dimmer 0-10 V may be integrated for switching and dimming the radiant heater.

Parameter	Data WMS Dimmer 0-10 V
Operating voltage [V DC]	12
Power consumption [W]	0.2
Frequency [GHz]	2.40 - 2.48
Degree of protection	IP 54
Safety class	III
Operating and storage temperature [°C]	-20 to +55

Tab. 8: Data for WMS Dimmer 0-10 V (optional)

3 Tools

Tool/aid	Information
Lifting aid	
Adhesive tape	Fastening of components Remove the adhesive tape within 24 hours to avoid leaving adhesive remnants on the product.
Hex key 5 mm	
Hex key 6 mm	
Hex key 8 mm	
Combination wrench size 17 Ratchet with hex spanner head size 17	
Ratchet with extension and hex spanner head size 13	
Ratchet with hex spanner head size 10	
Cross-head screwdriver	
Torque key	
Screw clamp	
Torx T10	
Torx T25	
Torx T20	
Torx T40	
Bit set with extension or longer bit set	
Bellows	
Dismantling tool (art. no. 2024013)	
Protective equipment (protective goggles/gloves)	For primer
Brushes/rags/cloths	
Cartridge press/caulking gun	
Cleaner (**recommendation**: Rhobasol 35DSF or Würth IPA cleaner – **not** included)	For cleaning surfaces where primer and sealant will be applied
Primer (**specification**: Würth Primer for Plastic/Wood/ Stone – included)	Pretreatment of surfaces where the sealant will be applied (processing possible from at least +10 °C)
Sealant (**specification**: Würth SMP sealant black – included)	Sealing (processing possible from at least +5 °C)
Sealant smoothing agent (**recommendation**: from Würth – **not** included)	

Tab. 9: Additional special tools and aids

4 Explanation of symbols

	Warning (text) (in the picture, pointing to a warning above)		Warning (text) (in the picture, pointing to a warning above)
	Warning (text) (in the picture, pointing to a notice above)		Info (text) (in the picture, pointing to an info above)
	Screw in/on the part hand-tight (in the picture, always in combination with a red arrow)		Screw in/on the part tightly (in the picture, always in combination with a red arrow)
	Position/insert the part, showing a screw as an example		Screw in/on the part, showing a screw as an example (in the picture, always in combination with the icon for the force to be applied)
	Screw in/on the part, showing a screw as an example (in the picture, always in combination with the icon for the force to be applied)		Release part, showing a screw as an example
	Adjust a part, e.g. to align it, showing a screw as an example		Remove a part, showing a screw as an example
	Drive type of the screw with tool size, showing a cross-head screw as an example		Drive type of the screw with tool size, e.g. showing the slotted screw as an example
	Drive type of the screw with tool size, showing the hex head screw as an example		Drive type of the screw with tool size, showing the hexagon socket screw as an example
	Drive type of the screw with tool size, showing the Torx screw as an example		Drilling with indication of drill bit size
	Prohibition notice Indicates prohibited aids, tools or activities.		

Tab. 10: Explanation of symbols

5 Checking the contents

5.1 Unpacking the product

WARNING
Risk of suffocation from carelessness!

Plastic film, polystyrene parts, small parts, etc., can be very dangerous for children to play with.

- Keep children away from small parts.
- Do not leave the packaging material lying around in disorderly fashion.

INFO
Dispose of the packaging material properly after the unit is unpacked.

- Use care when unpacking the product and components.

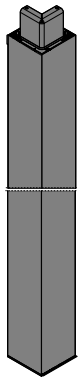
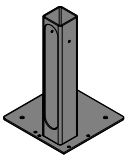
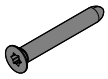
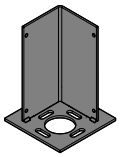
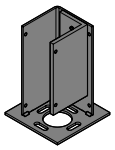
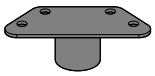
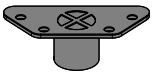
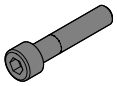
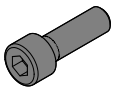
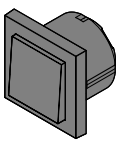
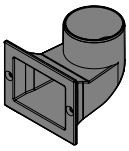
5.2 Scope of delivery

INFO

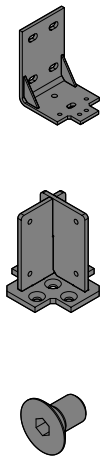
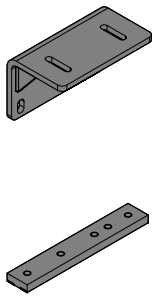
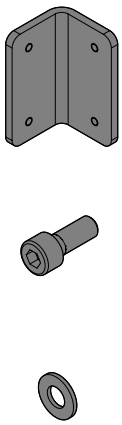
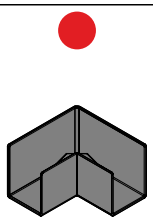
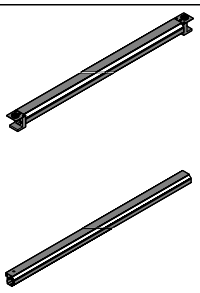
- Check the scope of delivery against the delivery note.
- Check all parts to make sure they are not damaged.
- Compare the situation on-site with the order data.
- If any items are damaged or do not match the order data, discontinue installation and contact WAREMA.

INFO

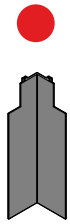
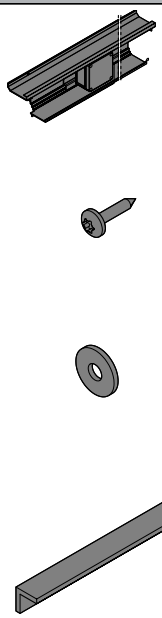
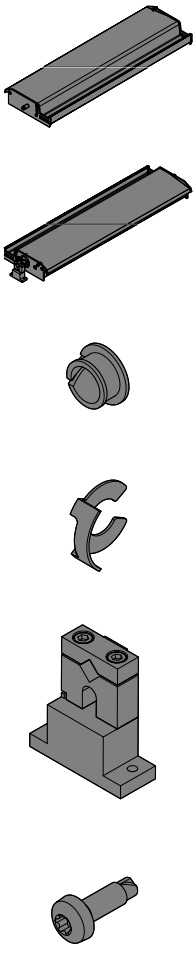
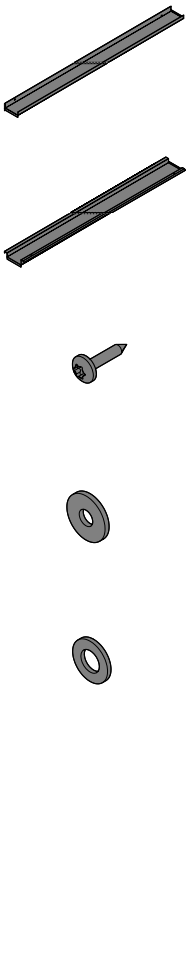
The components marked with a red dot are treated with primer.

	Parts description		Parts description
	Pole ■ Pole	 	Base plate ■ Base plate ■ M8 x 60
   	Internal base plate ■ Internal base plate, corner post ■ Internal base plate, centre post ■ DIN 7984 A2 M8 x 14 ■ DIN 125A 8.4	     	Offset pole ■ Fixing adapter ■ Fixing adapter rain gutter ■ EPDM seal ■ DIN 912 M8 x 40 ■ DIN 125A 8.4 ■ DIN 912 M8 x 25
	Power socket (optional) ■ power socket		Rectangular drainage (optional) ■ Waterspout

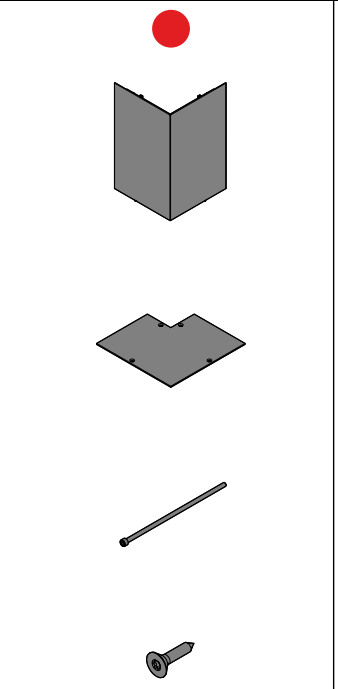
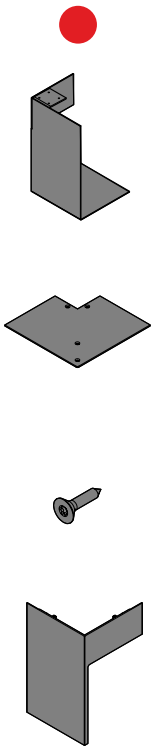
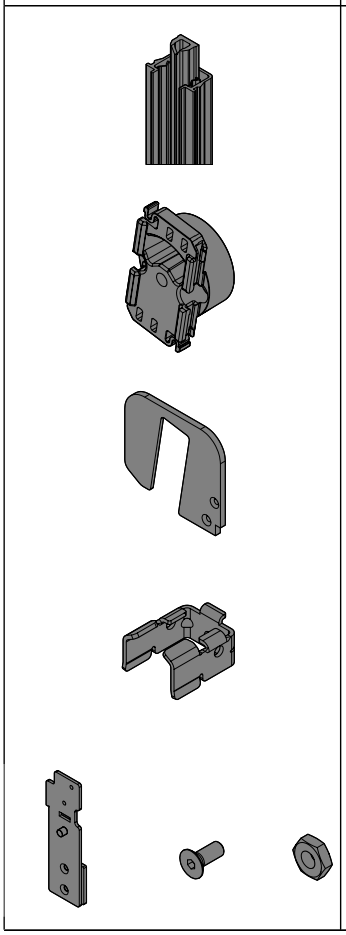
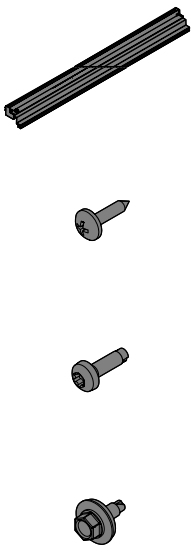
Tab. 11: Parts overview(the parts are shown with different scaling)

	Parts description		Parts description
	Wall console ■ Wall console ■ Base plate for the wall console ■ DIN 7991 M10 x 16		Offset wall console ■ Wall console ■ Fixing rail
	Beam installation (pole) ■ DIN 933 M10 x 20 ■ DIN 125A 10.5		Beam installation (offset pole) ■ L angle ■ DIN 912 M8 x 16 ■ DIN 125A 8.4
	Beam installation (wall console) ■ DIN 912 M8 x 16 ■ DIN 125A 8.4		Beam installation (offset wall console) ■ DIN 933 M8 x 25 ■ DIN 9021 8.4
	Corner joint ■ Drainage corner joint ■ Corner joint		Light rail (optional) ■ Light rail version with 4x ■ DIN 965 M4 x 10 ■ Light rail version with 2x

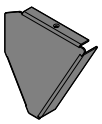
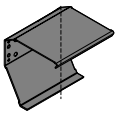
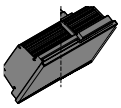
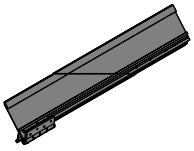
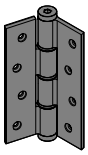
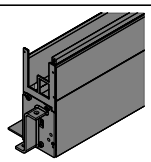
Tab. 11: Parts overview(the parts are shown with different scaling)

	Parts description		Parts description
	Inside corner bracket ■ Inside corner bracket		Connection box ■ Connection box ■ DIN 7981 4.2 x 16 ■ DIN 9021 5.3 ■ 2 x drainage angle
	Slat ■ Slat ■ Motor slat ■ Sliding bushing ■ Locking device ■ Motor holder ■ DIN 7054 4.8 x 16		Partition compensation plate ■ Partition compensation plate ■ Partition compensation plate, connection box ■ DIN 7981 4.2 x 16 ■ DIN 9021 5.3 ■ DIN 125A 5.3

Tab. 11: Parts overview(the parts are shown with different scaling)

	Parts description		Parts description
	Cover (pole) ■ Outside cover ■ Upper cover ■ ISO 4762 M6 x 190 ■ DIN 7982 3.5 x 13		Cover (wall console) ■ Outside cover ■ Upper cover ■ DIN 7982 3.5 x 13 ■ Outside cover with post
	easyZIP awning (optional) ■ Clip profile ■ Shaft seat ■ Console ■ Limit stop ■ Console bracing ■ DIN 7991 M4 x 10 ■ DIN 439B M6		Wall connection profile ■ Wall connection profile ■ DIN 7981 4.8 x 16 ■ DIN 7504 3.5 x 13 ■ DIN 7504 K0 4.2 x 13

Tab. 11: Parts overview(the parts are shown with different scaling)

	Parts description		Parts description
        	Radiant heater (optional) ■ Radiant heater bracket ■ Cover cap ■ Housing ■ Radiant heater ■ Snaplock bracket ■ Console ■ DIN 7982 3.5 x 3 ■ DIN 7982 3.9 x 25 ■ DIN 912 M5 x 30 ■ DIN 125A 5.3 ■ DIN 439 M5	    	Protection profile ■ Protection profile ■ Hinge ■ Spacer ■ DIN 7982 4.8 x 13 ■ DIN 965 M5 x 8 ■ DIN 965 A2 M4 x 12
	Beam		

Tab. 11: Parts overview(the parts are shown with different scaling)

6 Installation

INFO
The fixation and the fixing material must be suitable for the existing mounting substructure and must be designed according to the applicable regulations.

INFO

- Perform the installation with at least three persons!

  To **ensure** proper installation, the **mounting aid** must be used.

INFO
All joints sealed with caulk are considered to be maintenance joints.

DANGER
Electric shock!

When working in the immediate vicinity of potentially live parts, such as on-site connecting lines, contact may result in an electric shock.

- Check that the on-site connecting line is de-energised.
- Before installation, de-energise the on-site connecting line and secure it against being switched on again.

WARNING
Risk of injury from a falling product!

The product only meets the requirements of the specified maximum permissible wind speed when installed under certain conditions.

- The specified number of fixations and fixing points must be adhered to.
- Observe the guidelines provided by the screw anchor manufacturer when installing the product.

INFO
The point of reference for instructions indicating a side or view is from the outside toward the beam Ta and then in a clockwise direction.

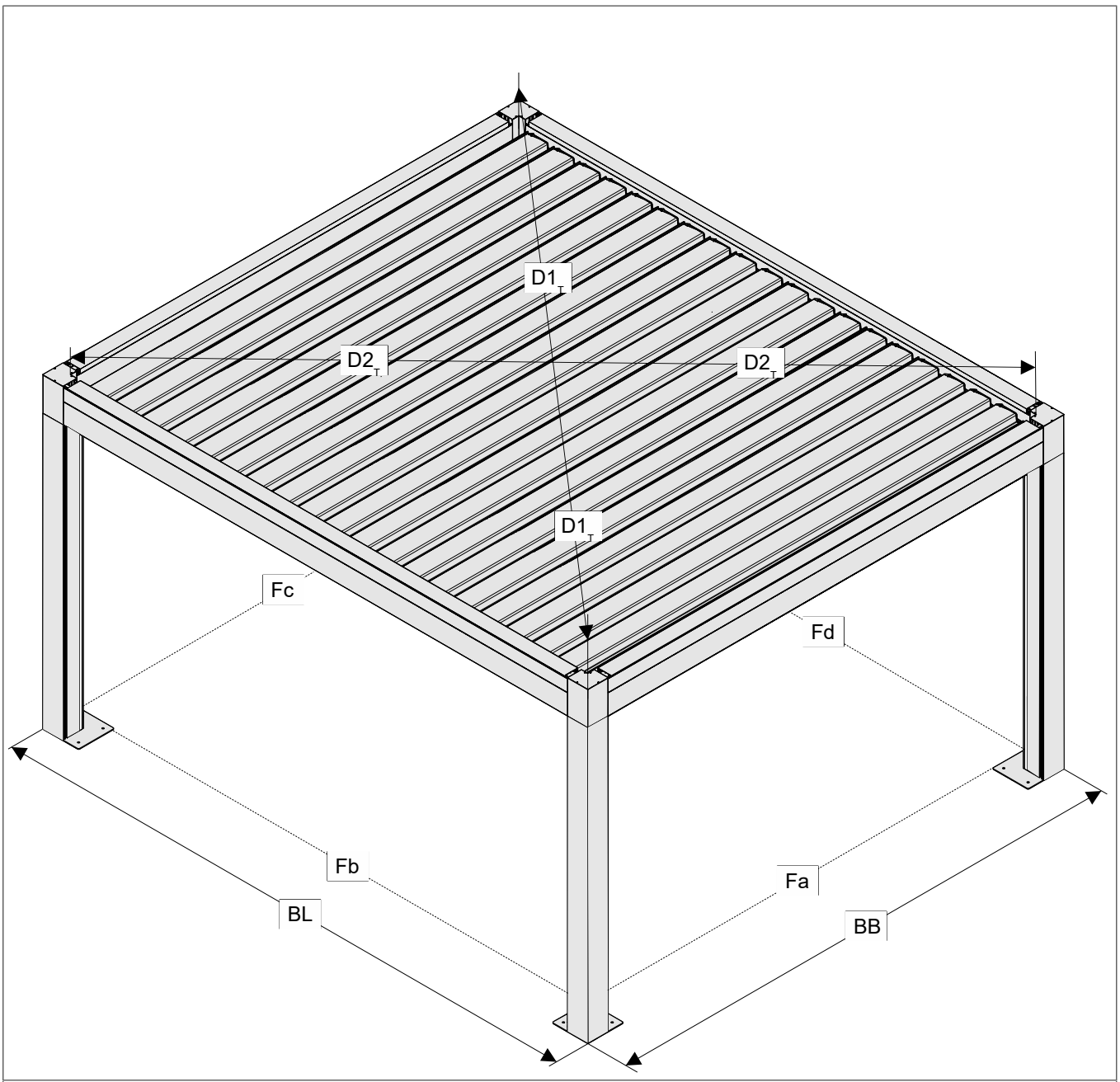
INFO
The protective film and labels on the product that are only required for installation should be removed promptly thereafter.

CAUTION
Risk of product damage from stepping on the product!

Stepping on the product may cause parts to sag. This can influence drainage and water may flow more readily toward the facade.

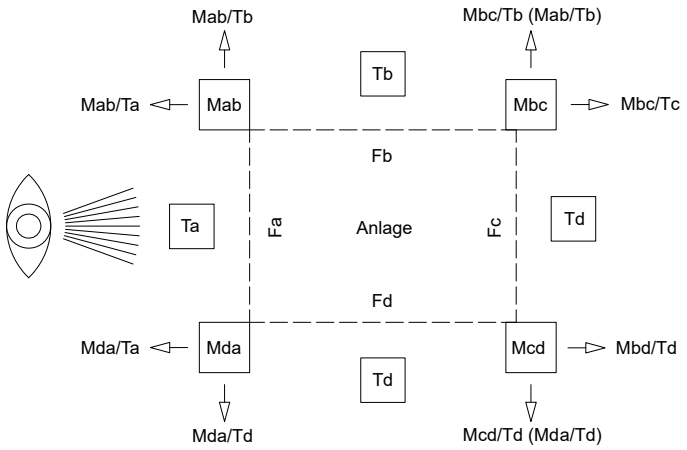
- Stepping on the product is not permitted.

6.1 Product position



BB	Order width	DT1	Diagonal 1 poles (inside edge to inside edge)
BL	Order length	DT2	Diagonal 2 poles (inside edge to inside edge)

Fig. 2: Product dimensions



F	Field	T	Beam
M	Installation point (pole or wall connection)		

Fig. 3: Product position

INFO
The distance of the outside panels of the pole or outside surfaces of the beam to a wall must be 10 mm at every possible contact point.

Fixing methods of posts

INFO
Note the special features of the fixing methods of the components listed and have any necessary preparations made.

▶ Pole with ground plate

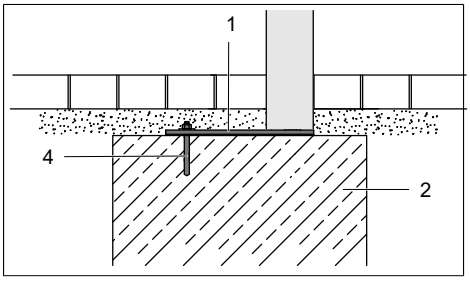


Fig. 4: Ground installation directly on the foundation [2]

- The base plate [1] is attached directly to the ground screw [2] using a suitable fixing material [4].

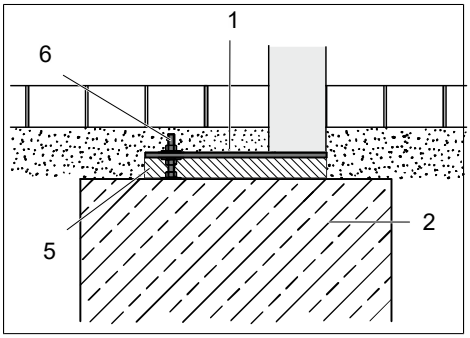
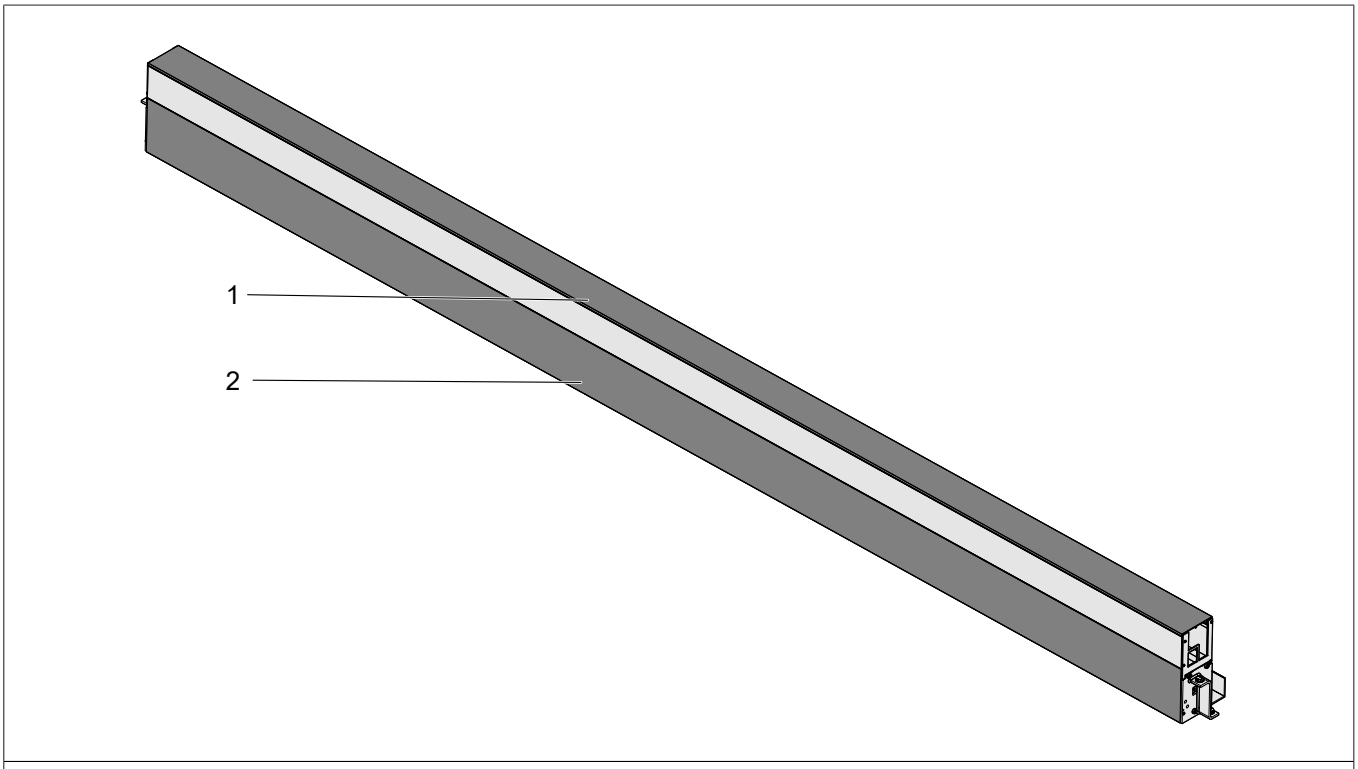


Fig. 5: Ground installation with threaded rod [6]

- Attach the base plate [1] to the threaded rod [6].
  There must be a pressure- and slip-resistant layer [5] between the ground screw [2] and the base plate [1].

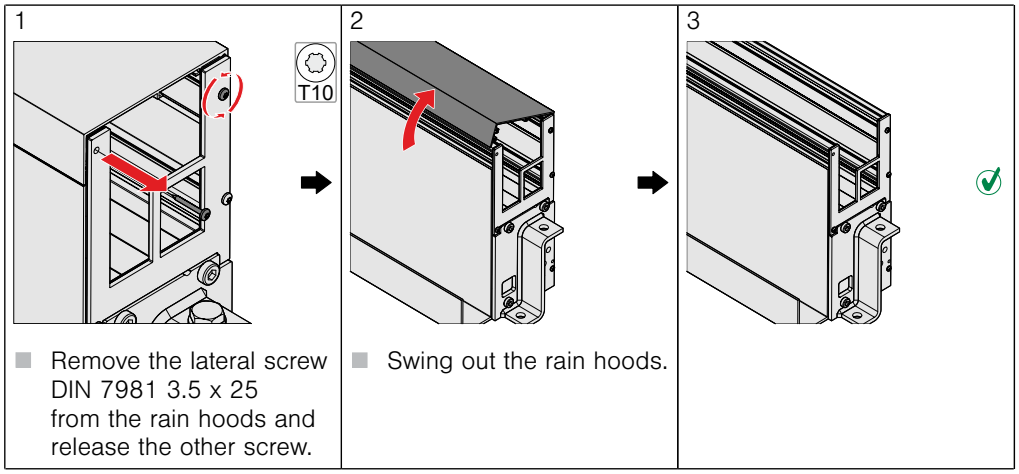
6.2 Preliminary work



1	Rain hood	2	Inspection cover

Fig. 6: Removing the rain hood and inspection cover

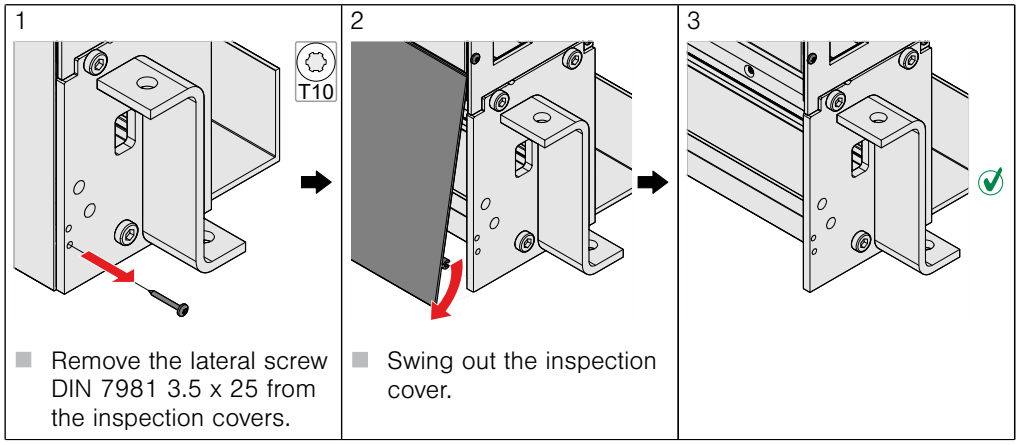
Removing the rain hood



- Remove the lateral screw DIN 7981 3.5 x 25 from the rain hoods and release the other screw.
- Swing out the rain hoods.

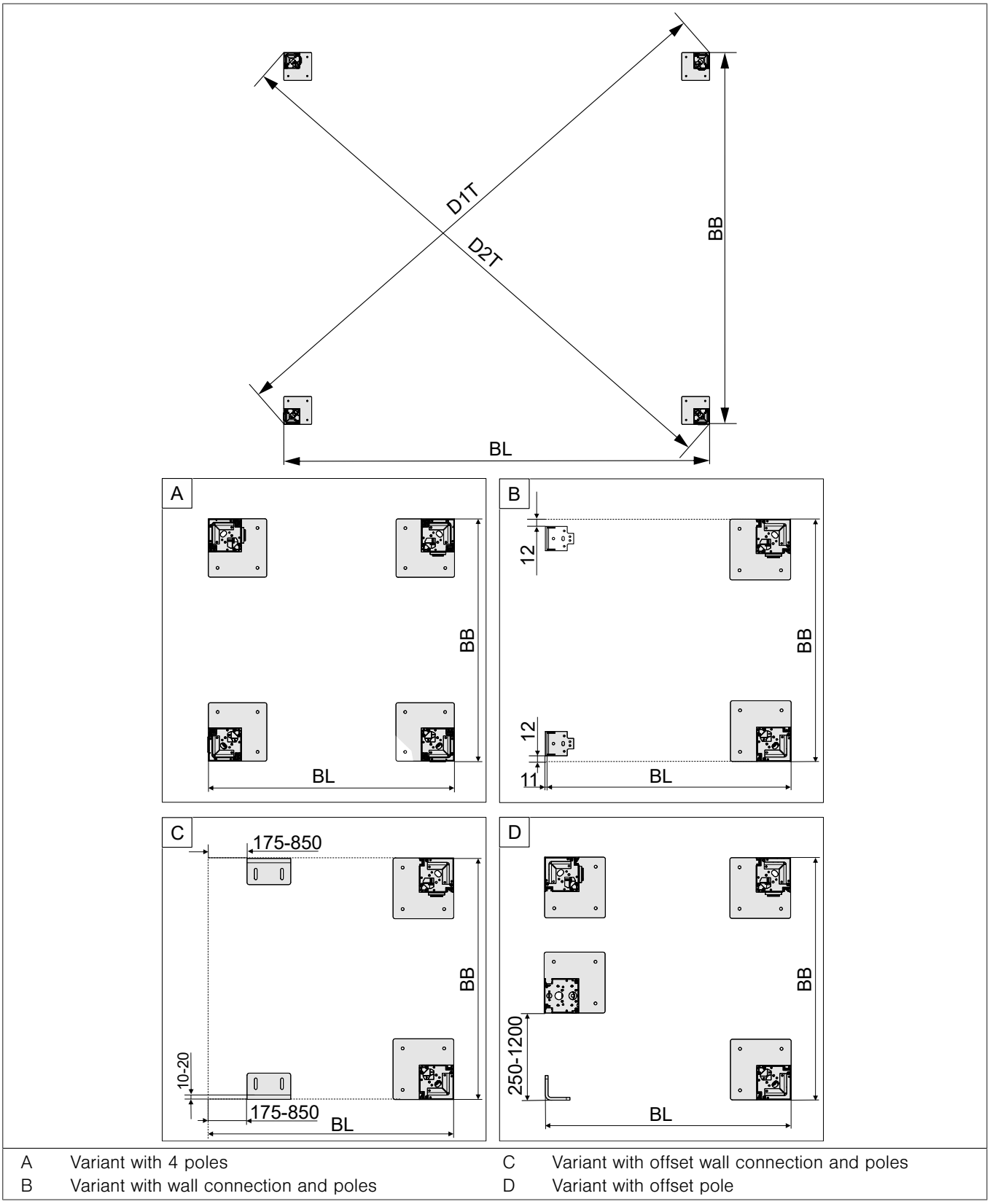
Removing the inspection cover

INFO
The inspection cover must be removed if there is an integrated awning with easyZIP guidance or offset/additional poles.



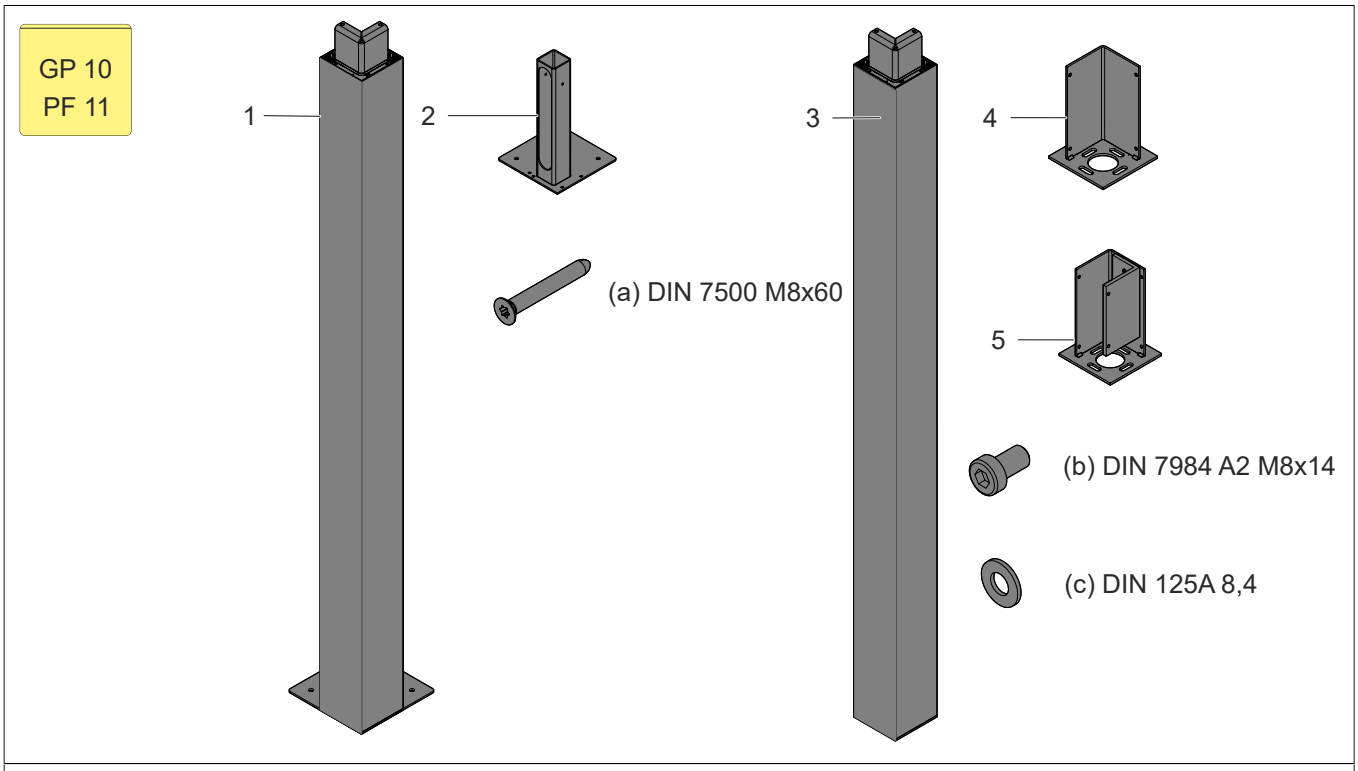
- Remove the lateral screw DIN 7981 3.5 x 25 from the inspection covers.
- Swing out the inspection cover.

6.3 Installing the fixing points



A	Variant with 4 poles	C	Variant with offset wall connection and poles
B	Variant with wall connection and poles	D	Variant with offset pole

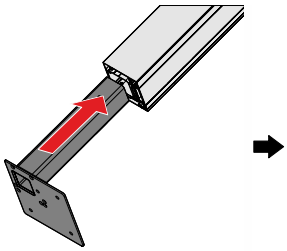
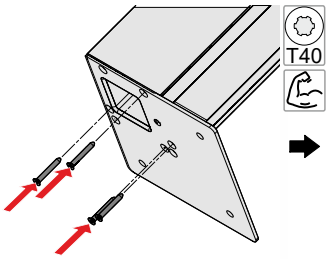
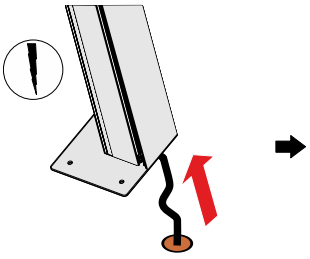
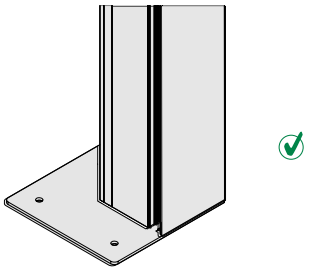
Fig. 7: Product variant (dimensions in mm)



1	Pole	5	Internal base plate for centre/additional posts
2	Base plate	a	Tapping screw DIN 7500 M8x60
3	Pole with inside base plate	b	Socket head screw DIN 7984 A2 M8x14
4	Internal base plate for corner post	c	Washer DIN 125A 8.4

Fig. 8: Pole variants

Installing the posts

1	2	3	4
			
■ Insert the base plate into the pole.	■ Attach the base plate to each pole with 4 screws M8x60 (a).	■ Pass the on-site connecting line through the opening in the base plate of the pole for the connecting line.	

Installing the pole with an inside base plate

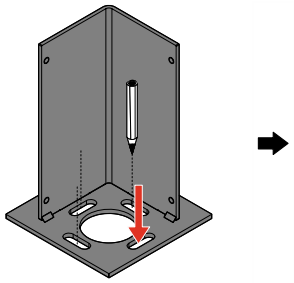
INFO

- Check the mounting substructure for unevenness.
- Correct any unevenness.
- The components must be exactly positioned and levelled since alignment will no longer be possible later on.

INFO

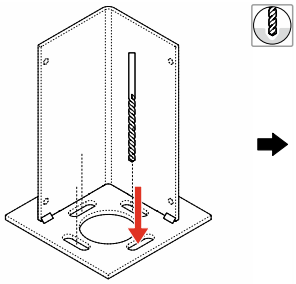
The following assembly sequence applies to both versions of the internal base plate.

1



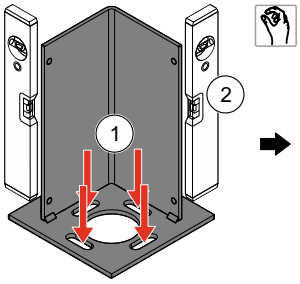
- Transfer the fixing template.

2



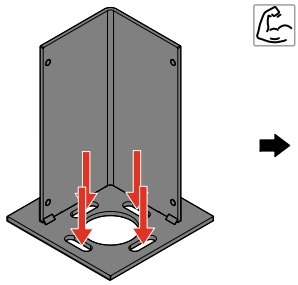
- Drill the fixing holes.

3



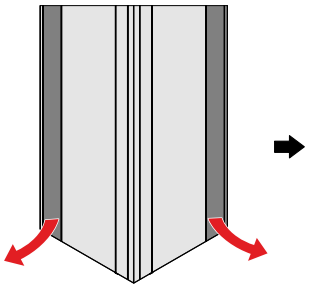
- Hand-tighten the fixing of the base plate.
- Align the pole.

4



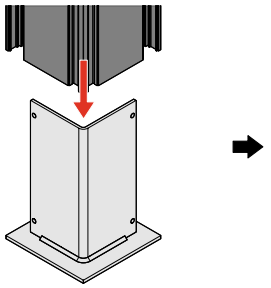
- Tighten the fixing of the base plate.

5



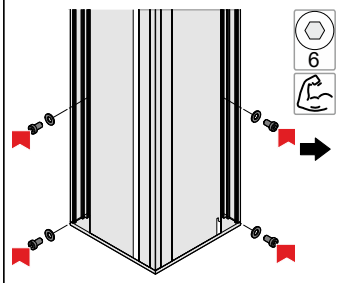
- Take out the cover panels.
- Release the lower cover panel holders and take them out.

6



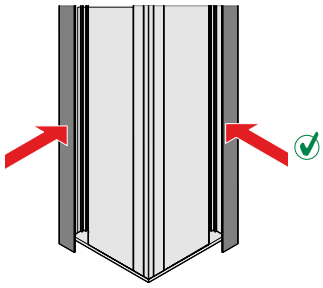
- Slide the pole on the internal base plate.

7



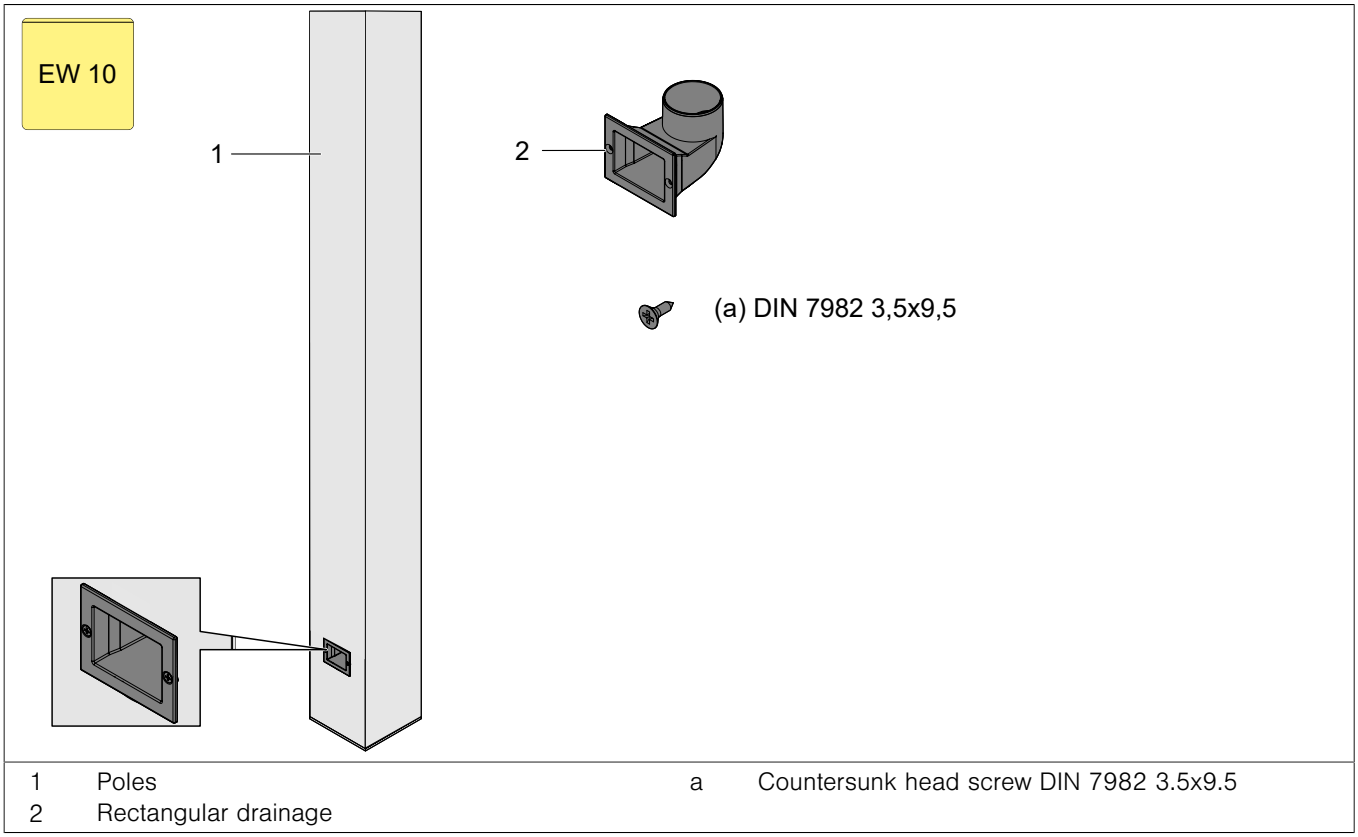
- Firmly tighten the pole using washers 8.4 (c) and screws M8x14 (b).

8



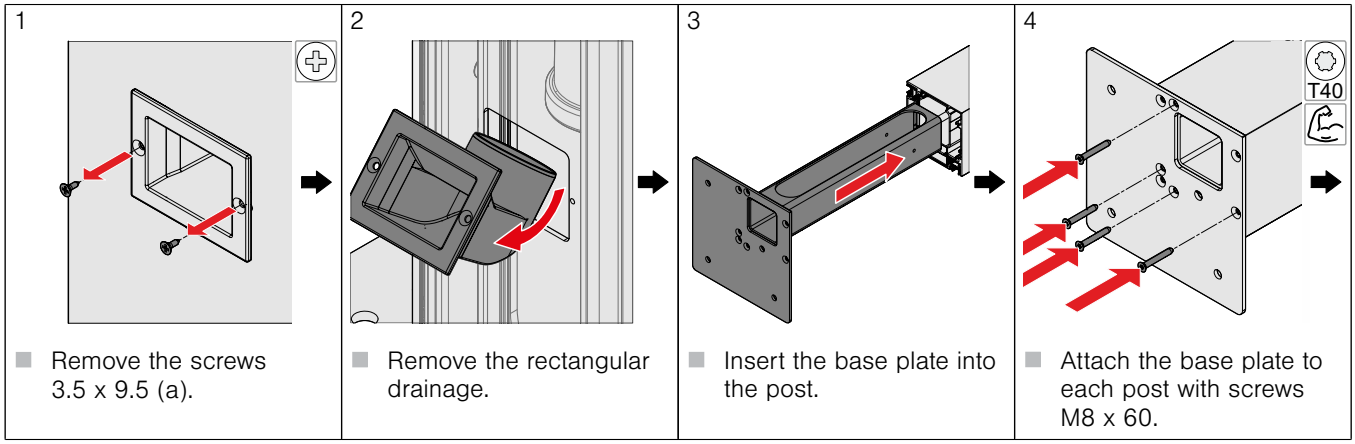
- Install the lower cover panel holder.
- Clip the black plastic holders onto the cover panels.
- Clip the cover panels back into the posts.

Installing the post with a rectangular drainage (optional)



1	Poles	a	Countersunk head screw DIN 7982 3.5x9.5
2	Rectangular drainage		

Fig. 9: Installing the drainage



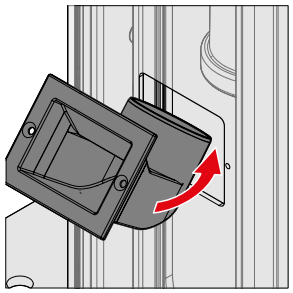
1 ■ Remove the screws 3.5 x 9.5 (a).

2 ■ Remove the rectangular drainage.

3 ■ Insert the base plate into the post.

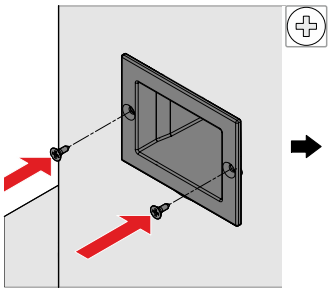
4 ■ Attach the base plate to each post with screws M8 x 60.

5



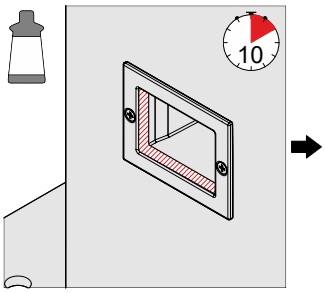
- Swing the rectangular drainage into the post and onto the downpipe.

6



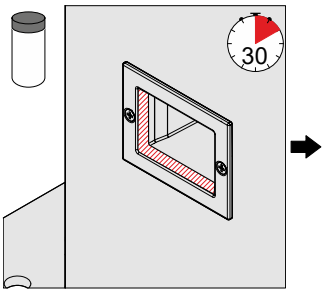
- Fasten the rectangular drainage using screws 3.5 x 9.5 (a).

7



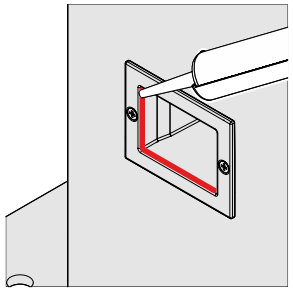
- Clean the surface on which the sealing adhesive is to be applied (Recommendation: Rhobasol 35DSF or Würth IPA cleaner – NOT included in the scope of delivery). → Then approx. 10 min. wait time

8



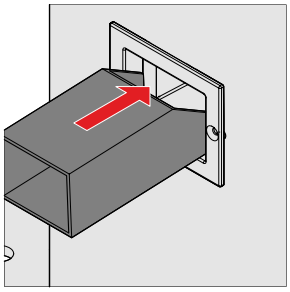
- Treat the cleaned surface with primer (specification: Würth Haftplus Primer for Plastic/Wood/Stone – included in scope of delivery; use the REQUIRED personal protective equipment). → Then approx. 30 min. wait time.

9



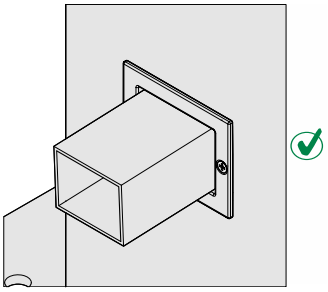
- Seal the drainage waterspout with sealant all around.

10



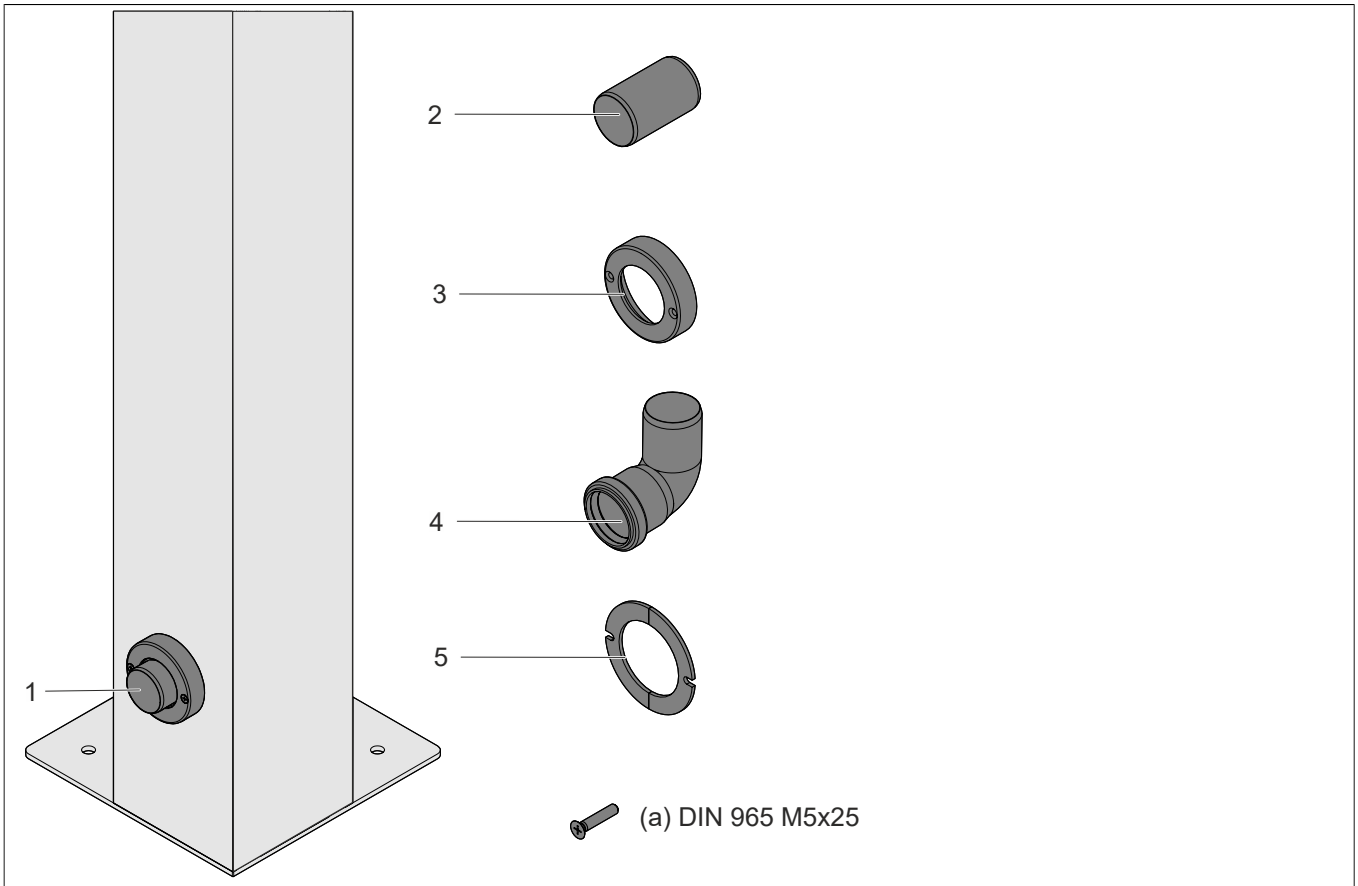
- Insert the drainage waterspout.

11



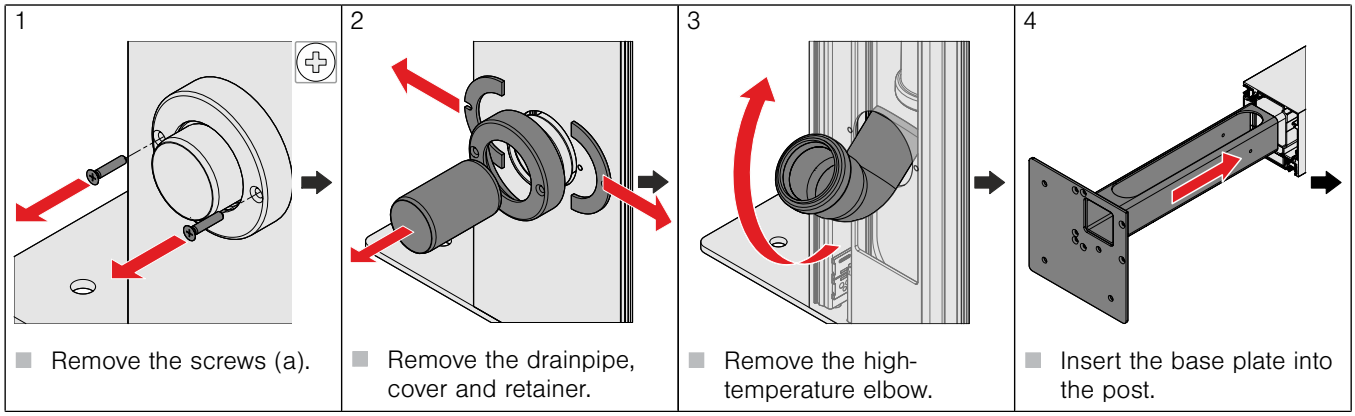
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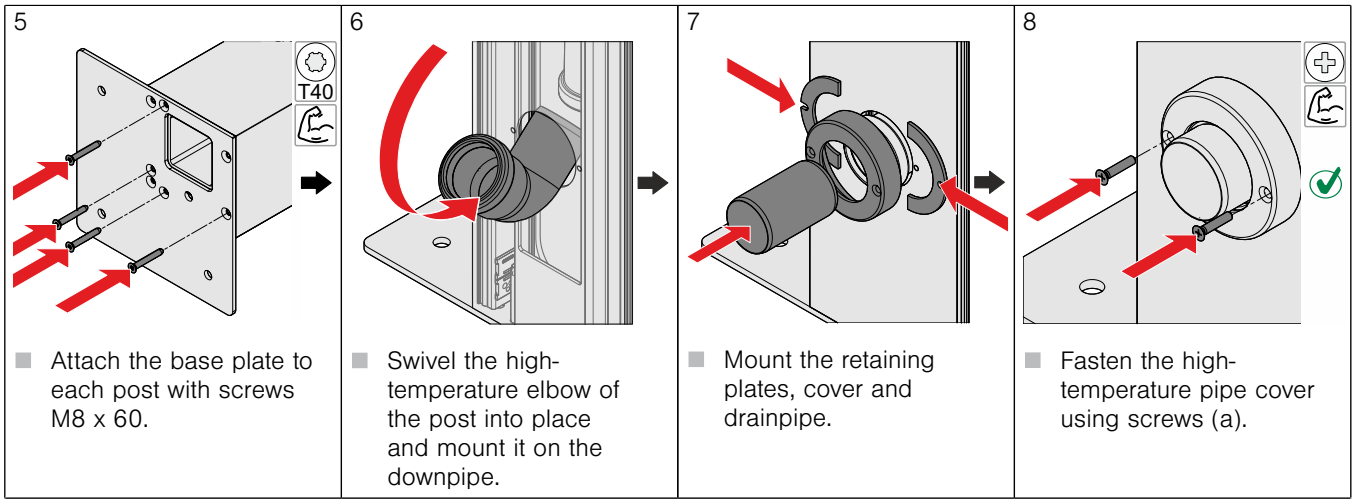
Installing the round drainage (optional)



1	Round drainage	4	High-temperature elbow
2	Drainpipe	5	Retaining plate, high-temperature pipe
3	Cover panel for high-temperature pipe	a	Countersunk head screw DIN 965 M5x25

Fig. 10: Installing the round drainage





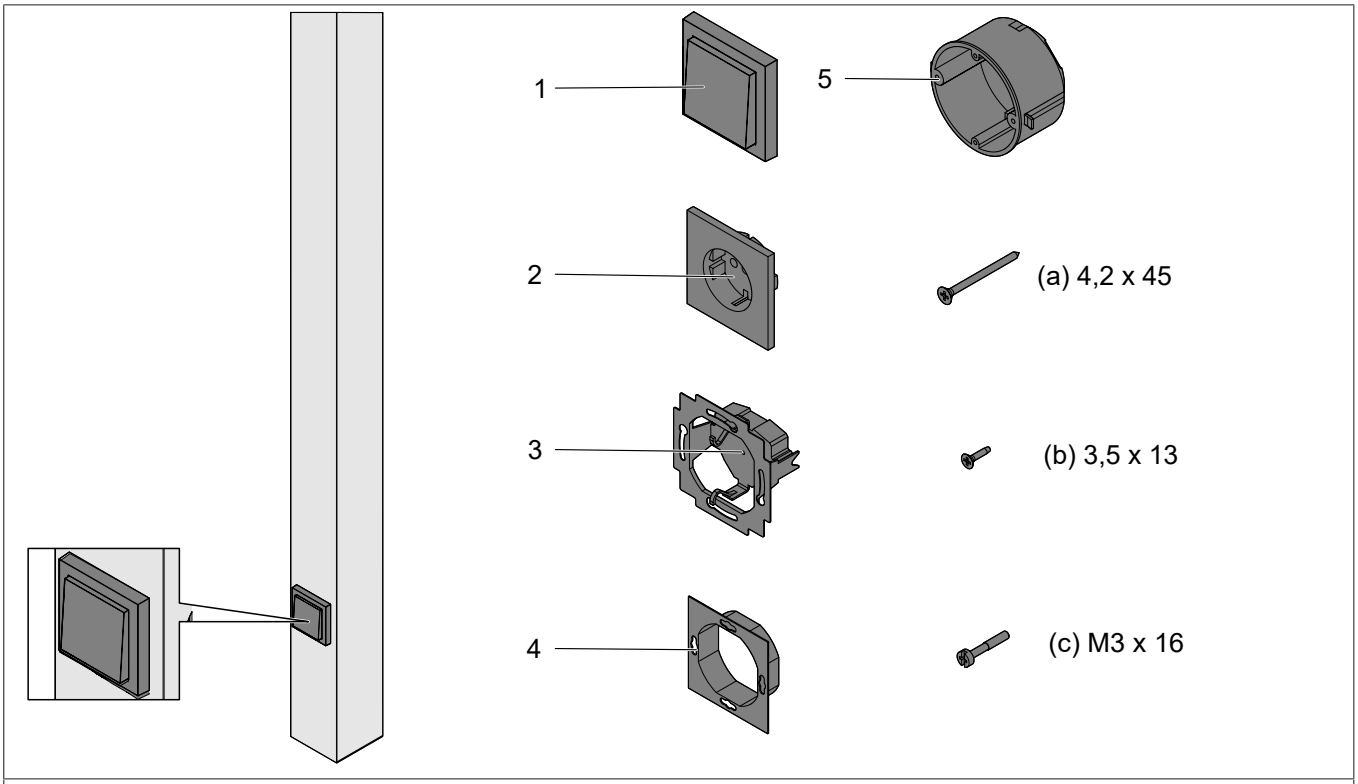
5 ■ Attach the base plate to each post with screws M8 x 60.

6 ■ Swivel the high-temperature elbow of the post into place and mount it on the downpipe.

7 ■ Mount the retaining plates, cover and drainpipe.

8 ■ Fasten the high-temperature pipe cover using screws (a).

Installing the post with a power socket (optional)



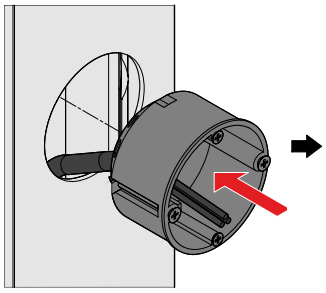
1	Power socket trim	4	Cover
2	Power socket frame	5	Pattress box
3	Power socket insert		

Fig. 11: Installing the power socket

INFO
The connecting line is secured in the pattress box with a strain relief. It must not be removed.

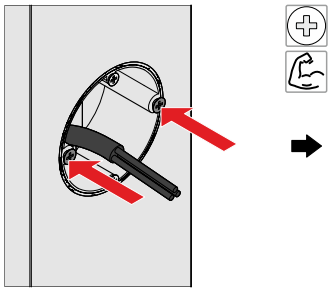
The connecting line must be installed facing downward to prevent water from entering.

1



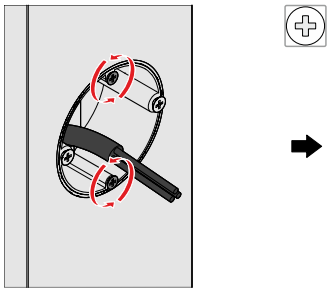
- Pull the supply cable through the post and secure it.
- Hold the pattress box in front of the opening. The cable exit must face downward.
- Slide the pattress box into place. The 2 fixing screws for the wall must be horizontal.

2



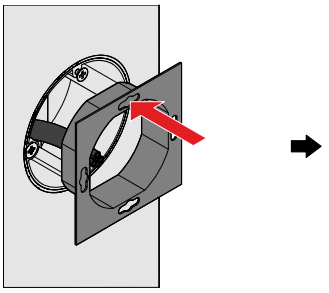
- Tighten the screws 4.2 x 45 (a).

3



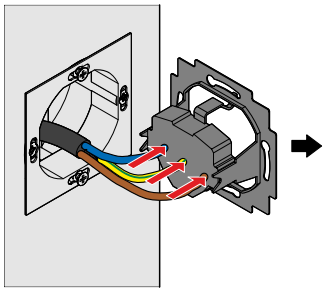
- Release the screws 3.5 x 13 (b).

4



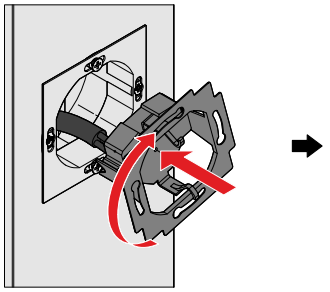
- Slide the cover onto the cavity wall box.

5



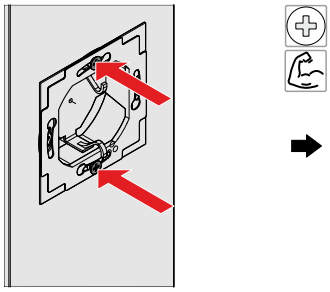
- Connect the connecting line to the power socket insert (note the correct assignment).

6



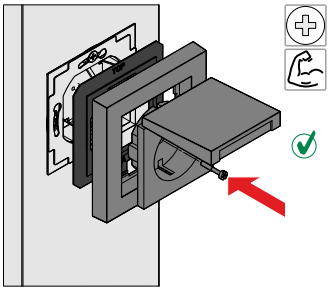
- Insert the power socket insert into the pattress box and turn clockwise.

7



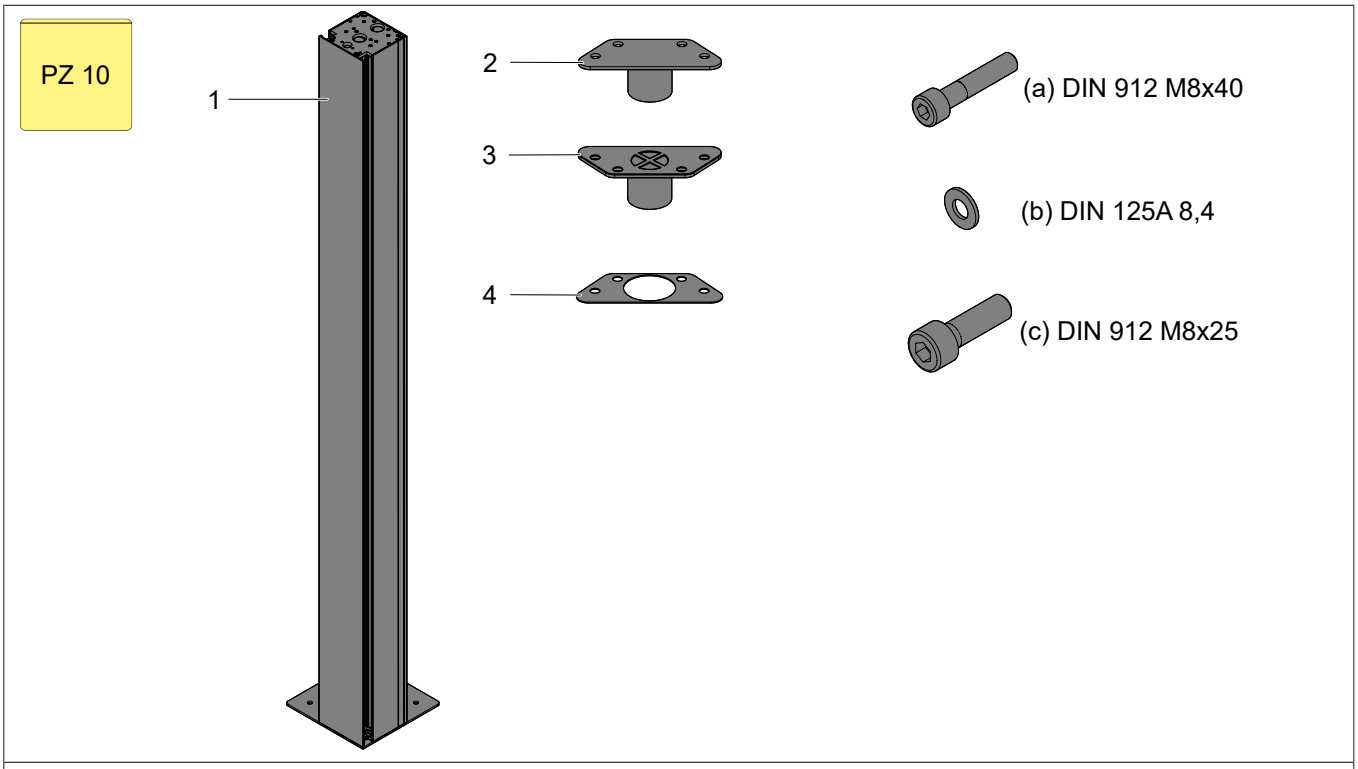
- Centre the power socket insert horizontally and tighten the fixing screws 3.5 x 13 (b).

8



- Position the seal with the cover frame, and then install with the power socket cover and screw M3 x 16 (c).

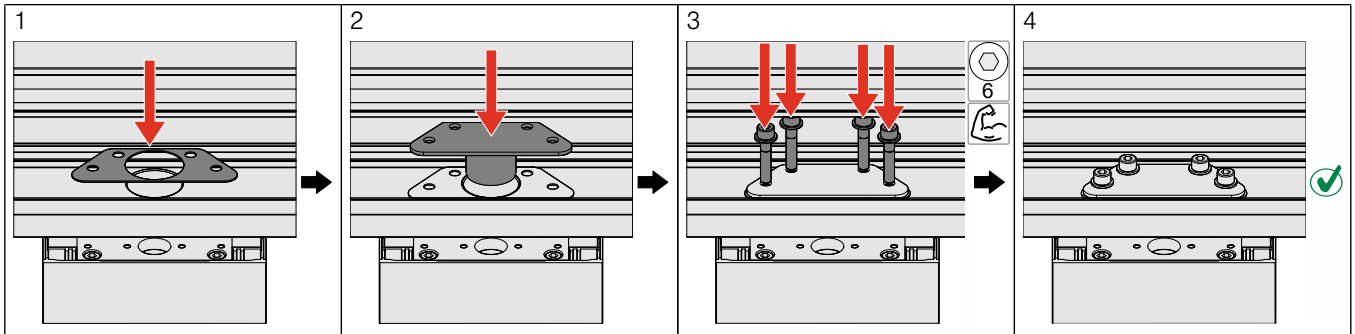
Installing the additional/offset pole



1	Pole	a	Socket head screw DIN 912 M8x40
2	Fixing adapter	b	Washer DIN 125A 8.4
3	Fixing adapter rain gutter	c	Socket head screw DIN 912 M8x25
4	Sealing		

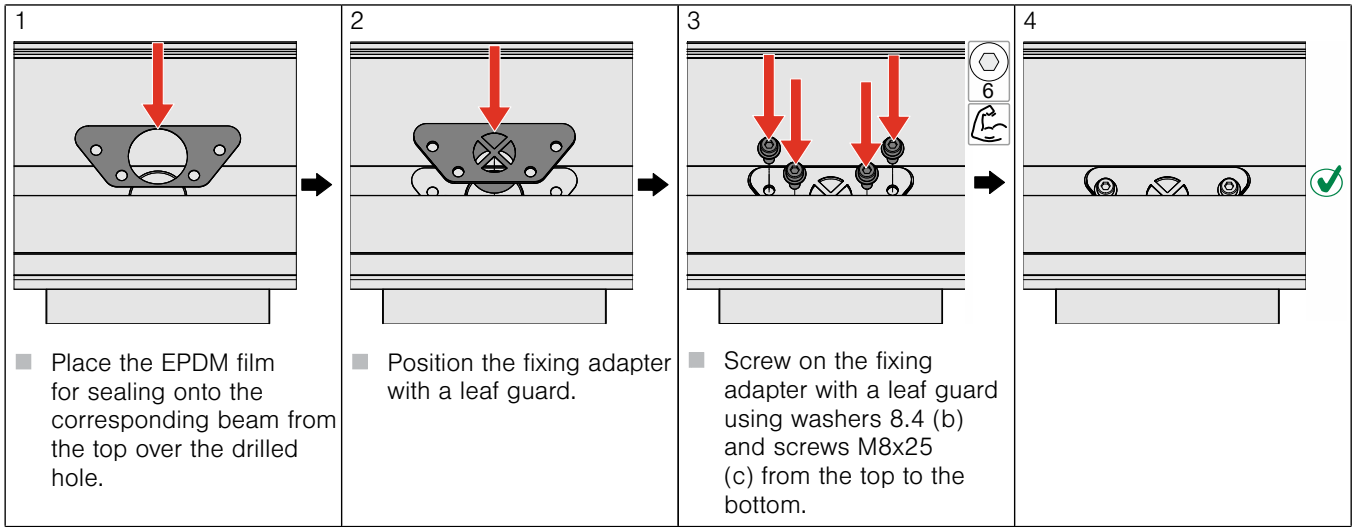
Fig. 12: Overview of additional/offset pole

Additional/offset pole without drainage



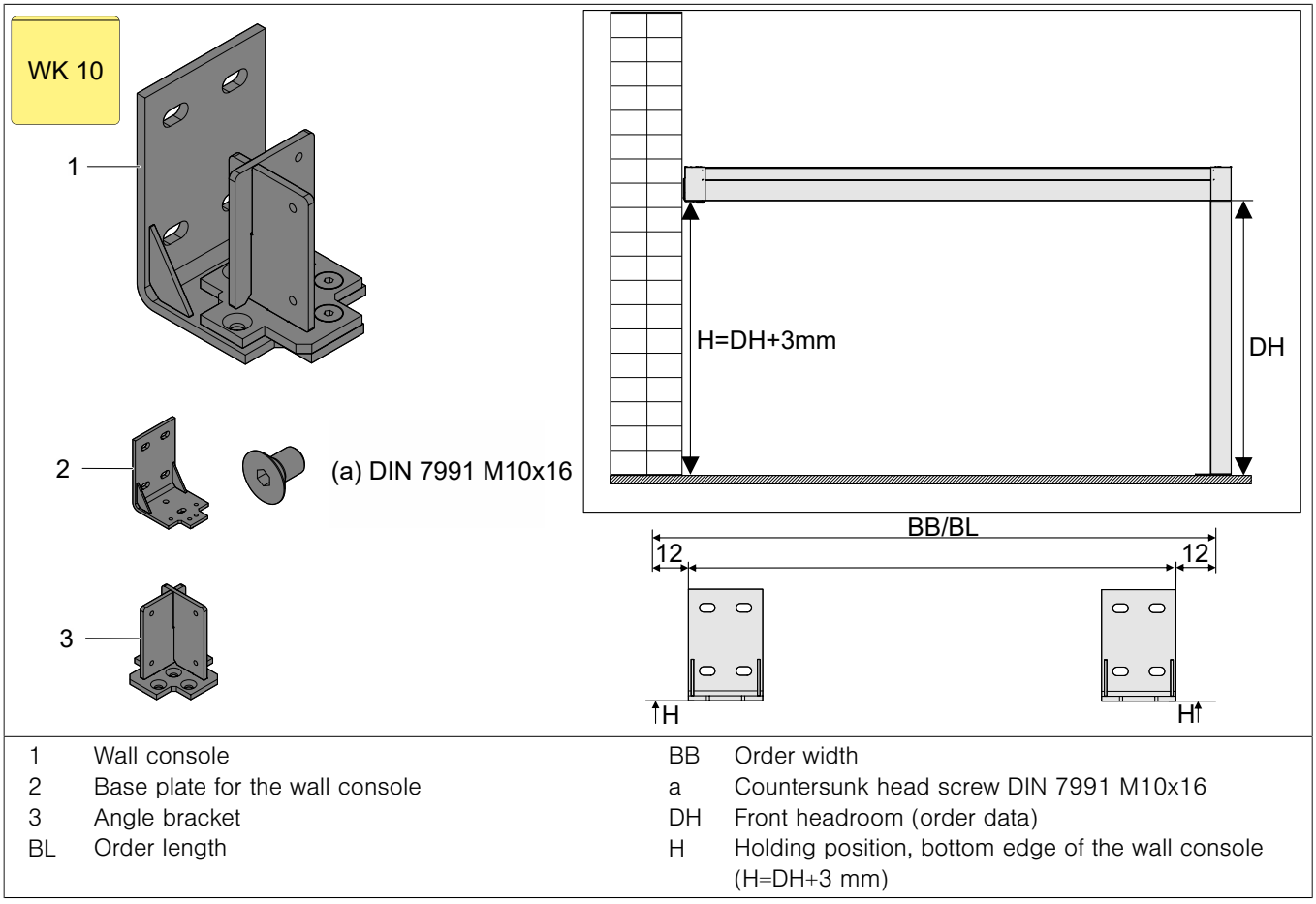
- Place the EPDM film for sealing onto the corresponding beam from the top over the drilled hole.
- Position the fixing adapter.
- Screw on the fixing adapter using washers 8.4 (b) and screws M8x40 (a) from the top to the bottom.

Additional/offset pole with drainage



1	2	3	4
■ Place the EPDM film for sealing onto the corresponding beam from the top over the drilled hole.	■ Position the fixing adapter with a leaf guard.	■ Screw on the fixing adapter with a leaf guard using washers 8.4 (b) and screws M8x25 (c) from the top to the bottom.	

Installing the wall console



1	Wall console	BB	Order width
2	Base plate for the wall console	a	Countersunk head screw DIN 7991 M10x16
3	Angle bracket	DH	Front headroom (order data)
BL	Order length	H	Holding position, bottom edge of the wall console (H=DH+3 mm)

Fig. 13: Wall console variants (dimensions in mm)

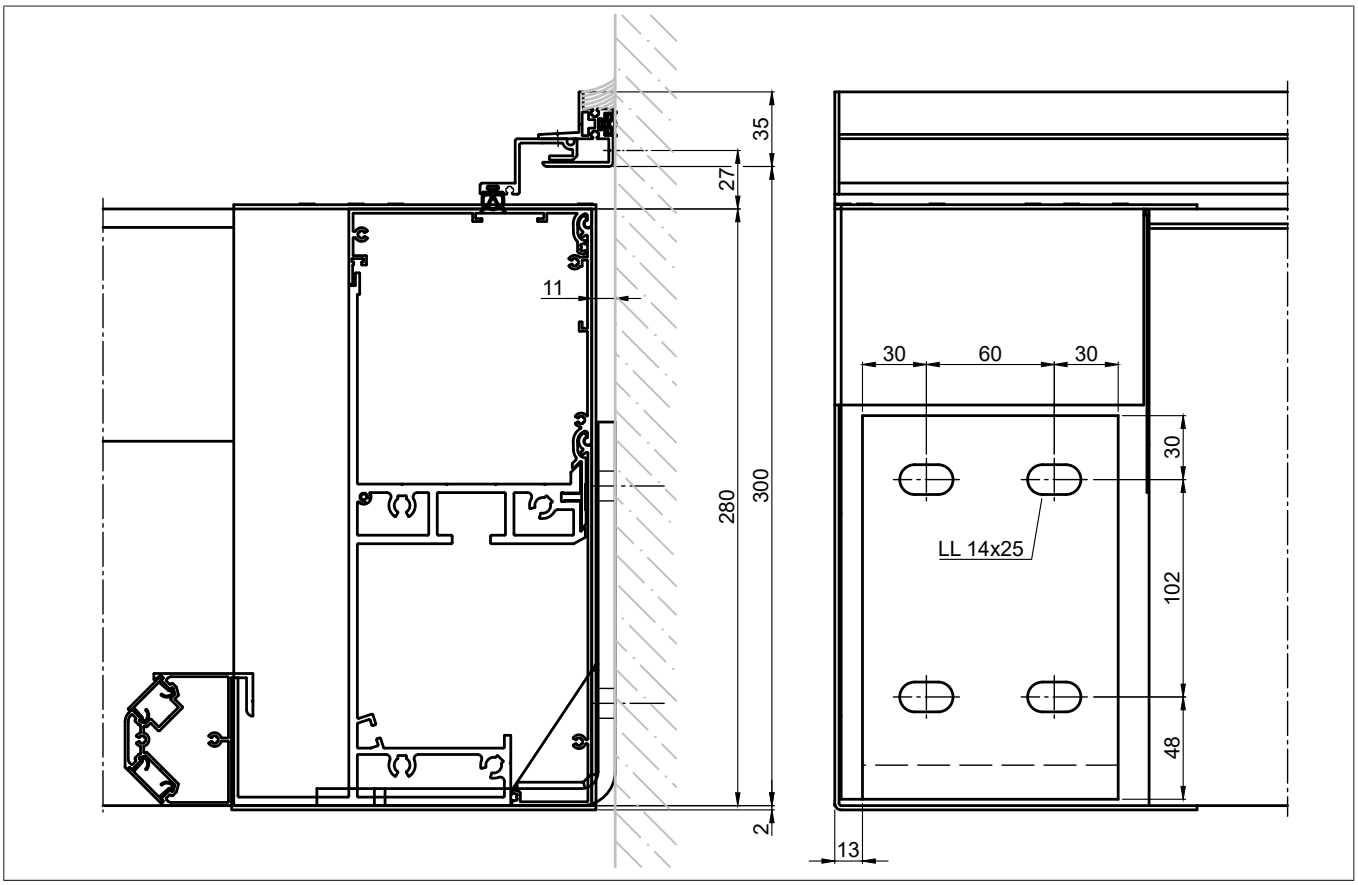


Fig. 14: Side view: wall connection, installation dimensions in mm for L60/L70

INFO
Be sure to install the symmetrically while also allowing for the shifting range.

Pencil in the fixing positions centrally to allow corrections later on.

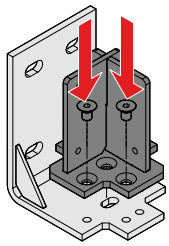
Watch the edge distances.

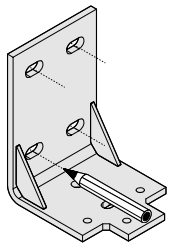
INFO

- Check the mounting substructure for unevenness.
- Correct any unevenness.
- The components must be exactly positioned and levelled since alignment will no longer be possible later on.

INFO

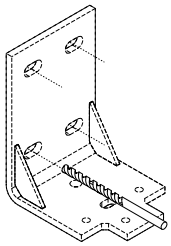
1





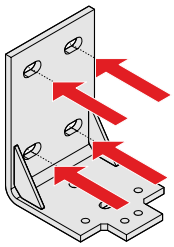
- Fasten the angle bracket to the base plate using the screws M10 x 16 (a).
- Hold the base plate against the marking, aligned vertically and horizontally.
- Transfer the fixing template.

2



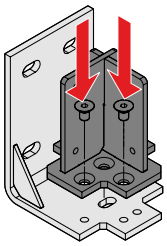
- Drill the fixing holes.

3



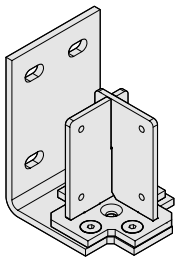
- Attach the base plate of the wall console to the substructure.

4

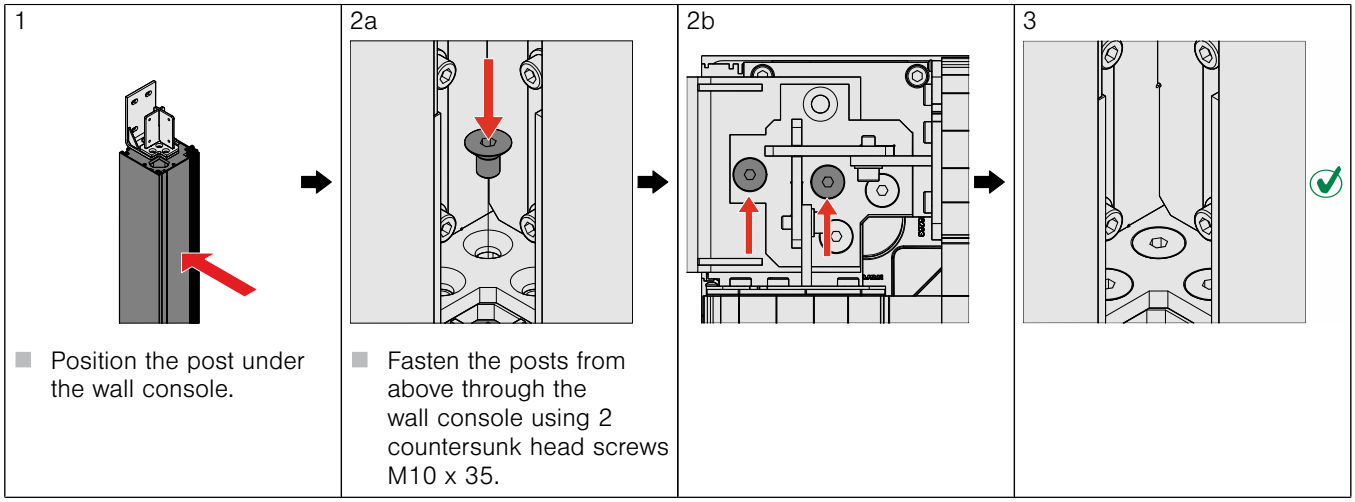


- Fasten the angle bracket to the base plate using the screws M10x16 (a).

5

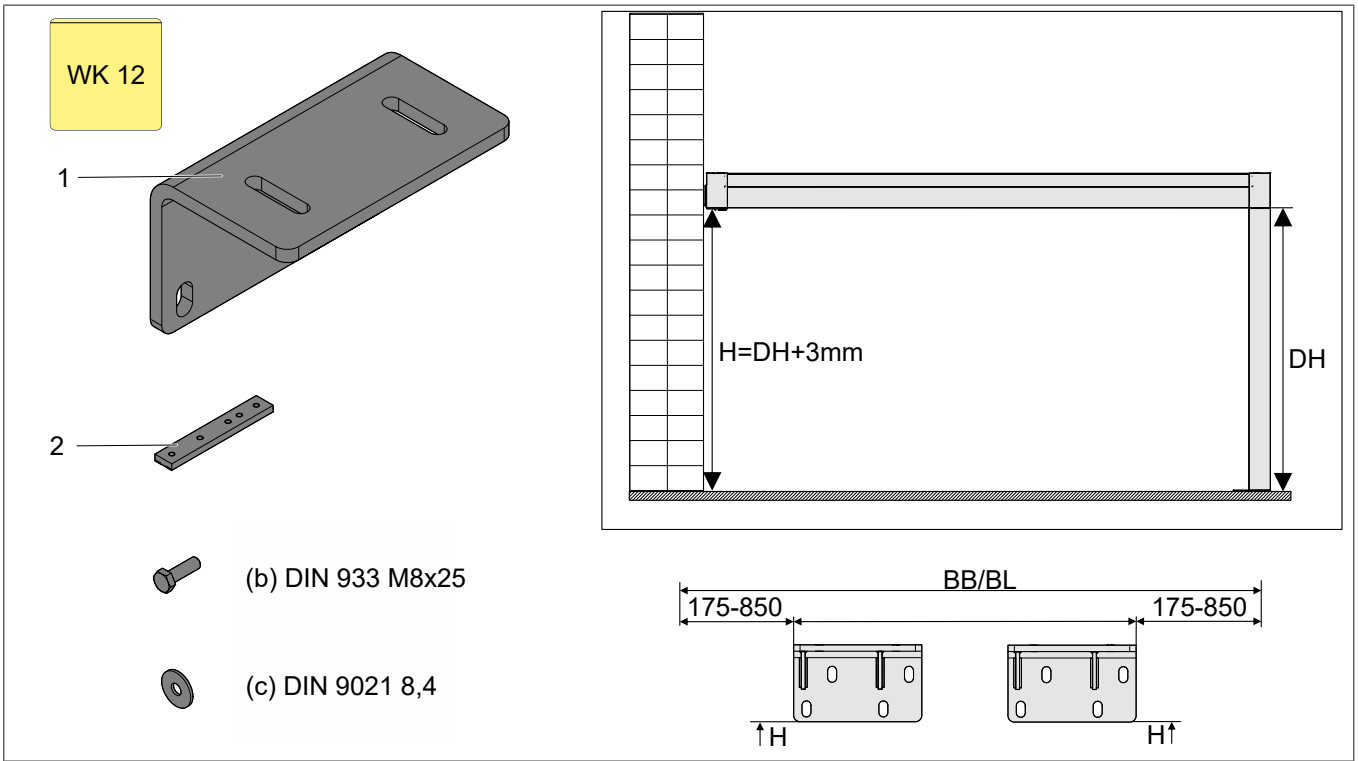


Installing the pole under the wall console (optional)



- Position the post under the wall console.
- Fasten the posts from above through the wall console using 2 countersunk head screws M10 x 35.

Installing the offset wall console



1	Base plate of offset wall console	DH	Front headroom (order data)
2	Fixing rail	H	Holding position, bottom edge of the wall console (H = DH + 3 mm)
BB	Order width	b	Hex screw DIN 933 M8x25
BL	Order length	c	Washer DIN 9021 8.4

Fig. 15: Overview of the offset wall console (dimensions in mm)

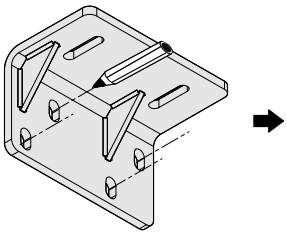
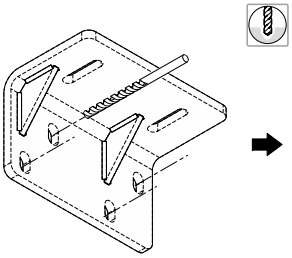
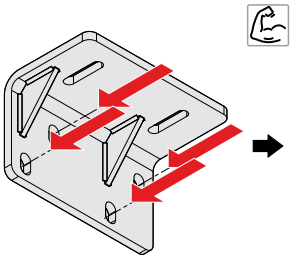
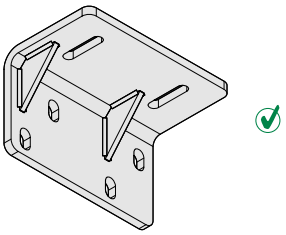
INFO
Be sure to install the symmetrically while also allowing for the shifting range.

Pencil in the fixing positions centrally to allow corrections later on.

Watch the edge distances.

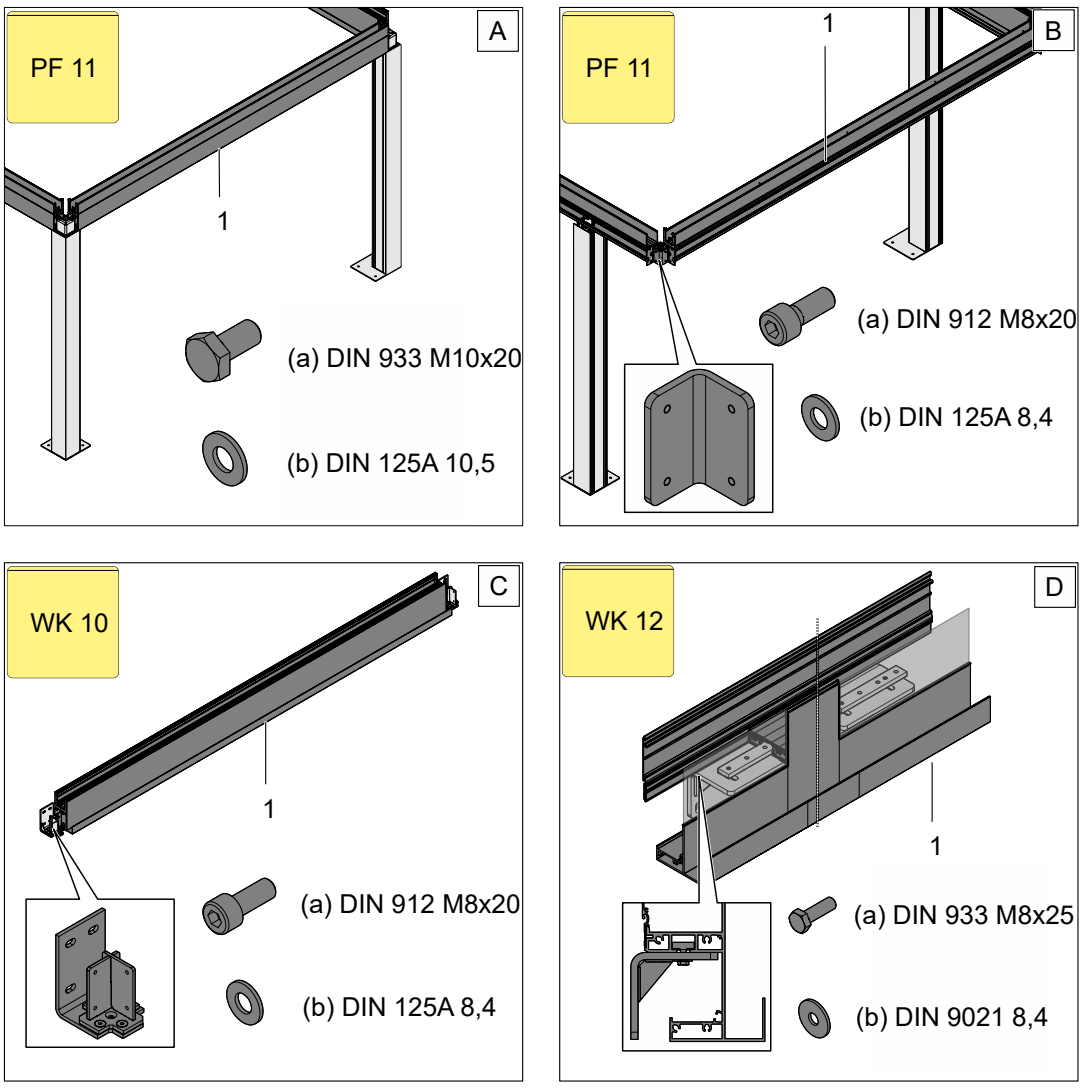
INFO

- Check the mounting substructure for unevenness.
- Correct any unevenness.
- The components must be exactly positioned and levelled since alignment will no longer be possible later on.

1	2	3	4
			
■ Hold the base plate against the marking, aligned vertically and horizontally. ■ Transfer the fixing template.	■ Drill the fixing holes.	■ Attach the base plate of the wall console to the substructure.	

6.4 Installing the beams

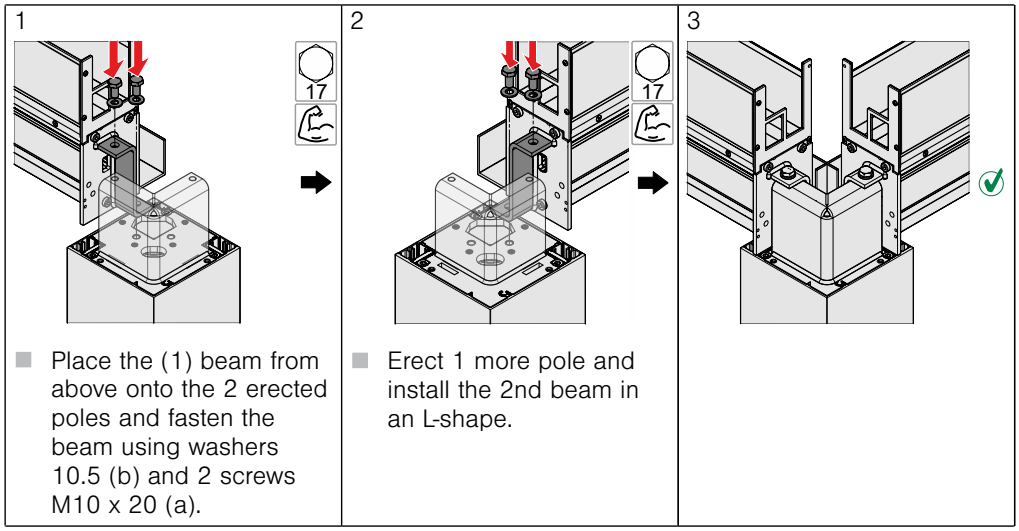
Overview of the installation types for beams



1	Beam	C	Variant - installing beams (wall console)
A	Variant - installing beams (pole)	a	Socket head screw DIN 912 M8x16
a	Hex screw DIN 933 M10x20	b	Washer DIN 125A 8.4
b	Washer DIN 125A 10.5	D	Variant - installing beams (offset wall console)
B	Variant - installing beams (offset pole)	a	Hex screw DIN 933 M8x25
a	Socket head screw DIN 912 M8x16	b	Washer DIN 9021 8.4
b	Washer DIN 125A 8.4		

Fig. 16: Overview of the installation types for beams

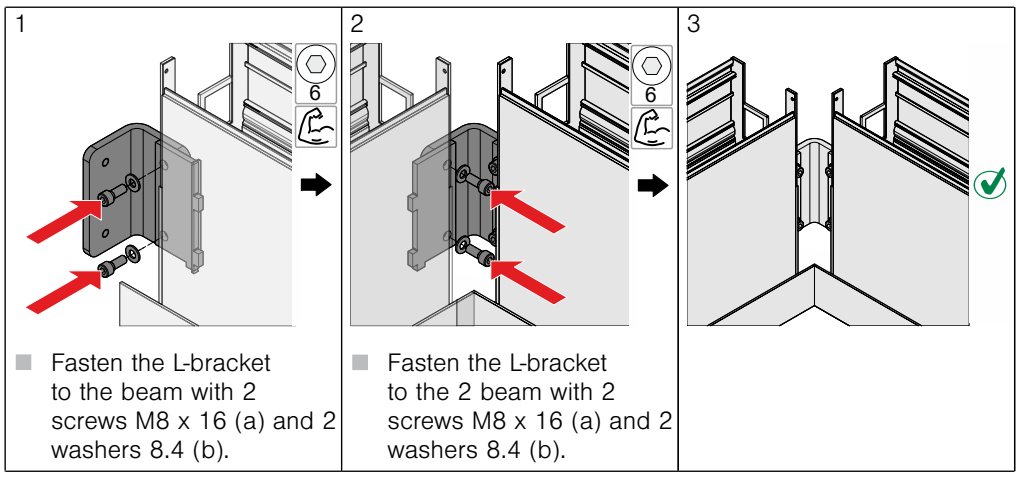
Variant A - installing beams (pole)



- Place the (1) beam from above onto the 2 erected poles and fasten the beam using washers 10.5 (b) and 2 screws M10 x 20 (a).
- Erect 1 more pole and install the 2nd beam in an L-shape.

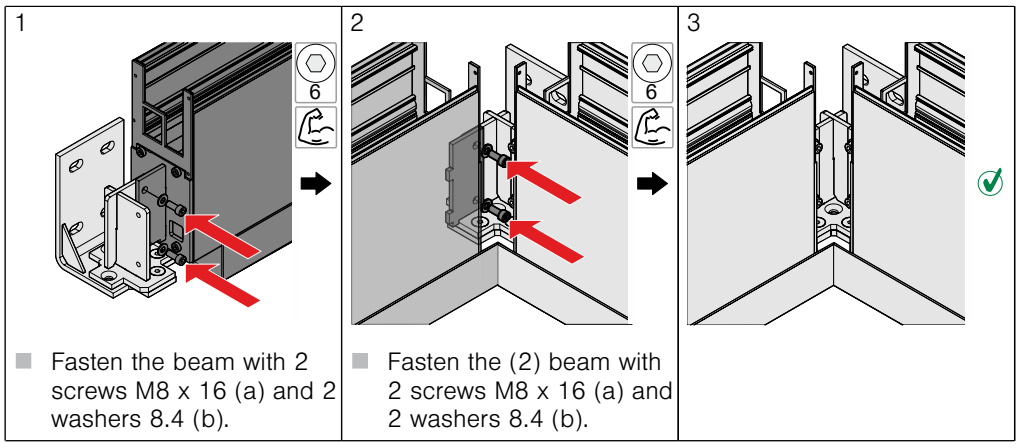
Variant B - installing beams (offset pole)

NOTICE
When installing the beam with the offset pole, the beam may tip.



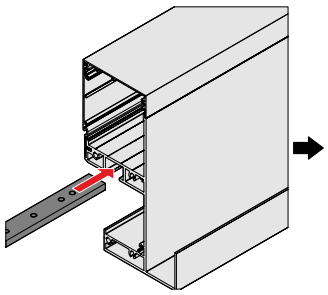
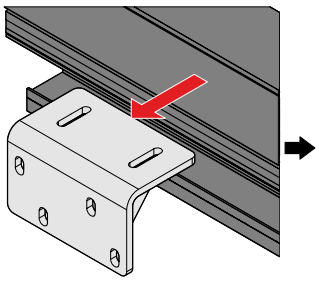
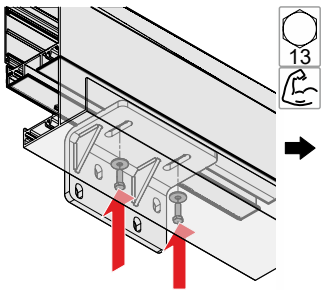
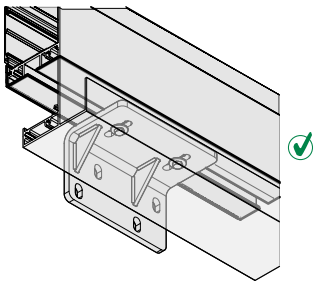
- Fasten the L-bracket to the beam with 2 screws M8 x 16 (a) and 2 washers 8.4 (b).
- Fasten the L-bracket to the 2 beam with 2 screws M8 x 16 (a) and 2 washers 8.4 (b).

Variant C - installing beam (wall console)

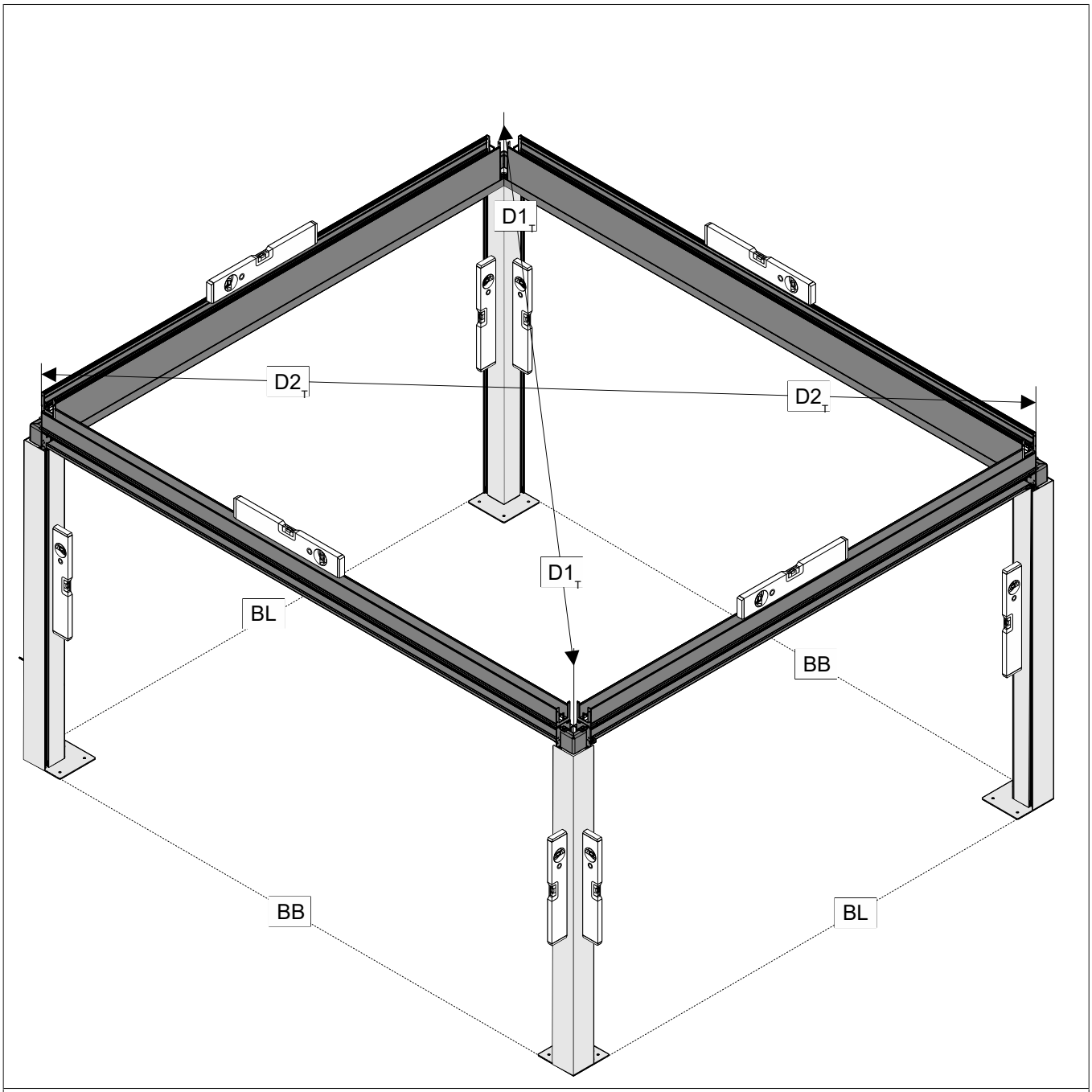


- Fasten the beam with 2 screws M8 x 16 (a) and 2 washers 8.4 (b).
- Fasten the (2) beam with 2 screws M8 x 16 (a) and 2 washers 8.4 (b).

Variant D - installing beams (offset wall console)

1	2	3	4
			
■ Insert the fixing rails into the beam all the way to the fixing positions.	■ Slide the beam onto the consoles.	■ Fasten the beam from below using washers 8.4 (b) and screws M8x25 (a).	

6.5 Aligning and fastening the slat roof

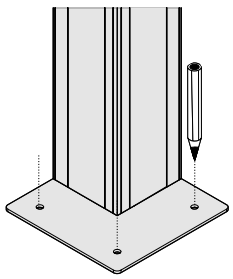


BB	Order width	$D1_T$	Diagonal 1 of beam
BL	Order length	$D2_T$	Diagonal 2 of beam

Fig. 17: Aligning and fastening the slat roof

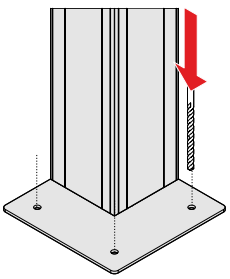
INFO
The distance between the poles must be equal at the top and bottom.

1



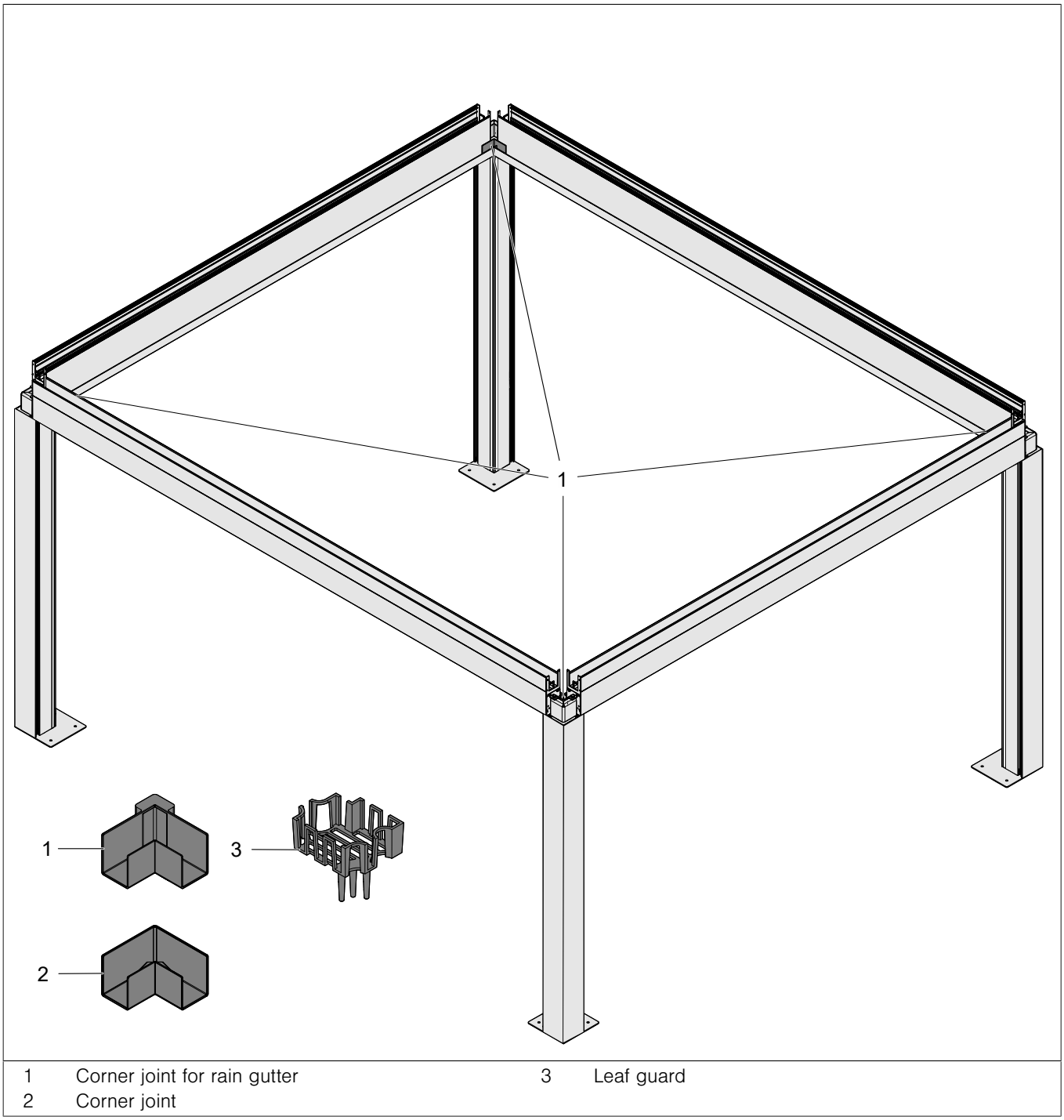
- Transfer the fixing template.

2



- Drill the fixing holes.

6.6 Installing the corner joint and leaf guard



1	Corner joint for rain gutter	3	Leaf guard
2	Corner joint		

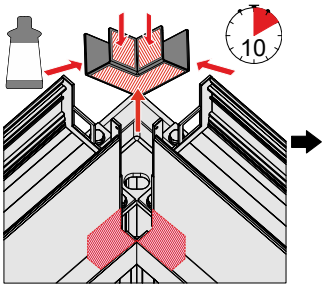
Fig. 18: Installing the corner joint

INFO
The bonding/contact surfaces to which sealant is applied must first be treated with cleaning agent and primer.

Installing the corner joint

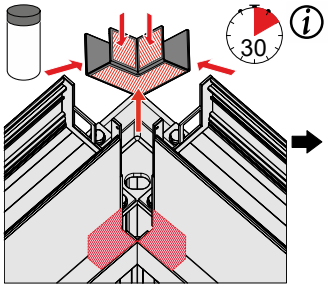
INFO
Do not use the primer all the way to the fabric area of the two beams or on visible surfaces.

1



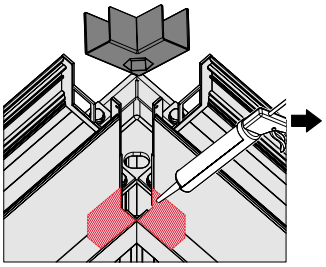
- Clean the surface on which the sealing adhesive is to be applied (Recommendation: Rhobasol 35DSF or Würth IPA cleaner – NOT included in the scope of delivery). → Then approx. 10 min. wait time

2



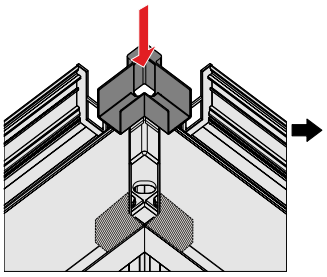
- Treat the cleaned surface with primer (specification: Würth Haftplus Primer for Plastic/Wood/Stone – included in scope of delivery; use the REQUIRED personal protective equipment). → Then approx. 30 min. wait time.

3



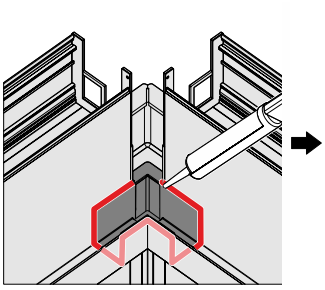
- Apply the sealant over the entire surface of the contour of the corner joint on the beams.

4



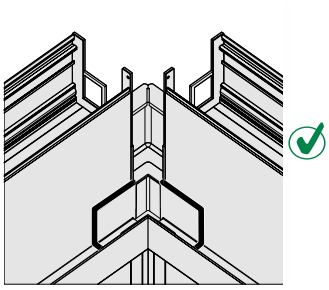
- Press the corner joint firmly onto the beam using a tool.

5



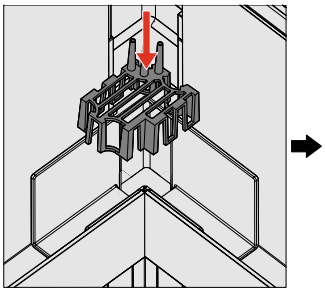
- Seal all corners and edges of the corner joints with sealant.

6



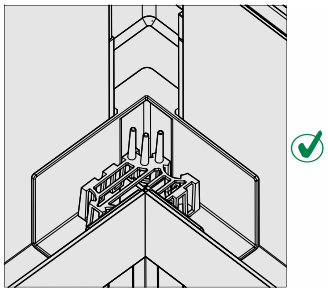
Installing the leaf guard

1

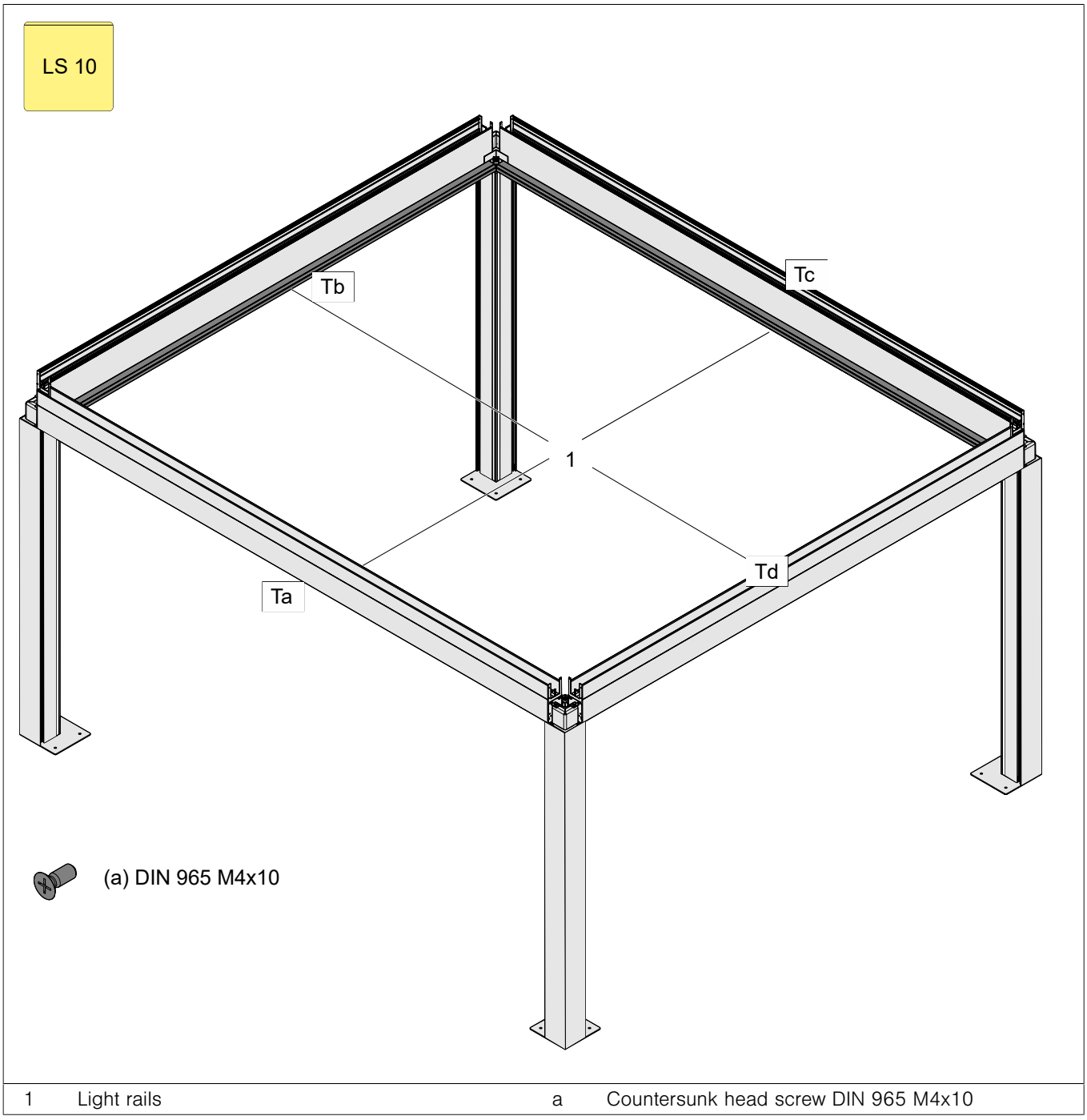


- Insert the leaf guard into the drainage corner.

2



6.7 Installing the light rail and LED post (optional)



1	Light rails	a	Countersunk head screw DIN 965 M4x10

Fig. 19: Installing the light rail

INFO

- Note the installation direction relative to the connection box: The line ends of the light rails must face the connection box.

INFO
The most favourable processing temperature (object and ambient temperature) for the adhesive tape is between +15 °C and +25 °C.

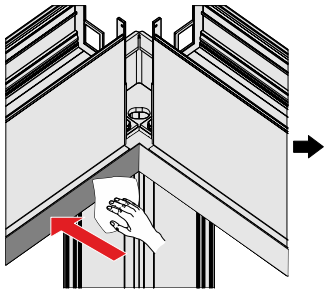
At temperatures below the favourable processing temperature, the adhesive tape achieves an adhesive strength of 60 - 70 % in 3 - 4 days. Pressing down on the adhesive tape again at temperatures between 15 - 25 °C can achieve an adhesive strength of 100 % (e.g. in summer).

If there is a temperature difference between the storage location of the parts to be connected and the installation location, it is recommended to wait before installing them. Otherwise condensation may form and the adhesive strength will deteriorate.

Light rail installation with 2 light rails

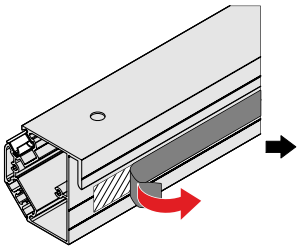
NOTICE
Insert wood blocks between the screw clamp and the coated surfaces.

1



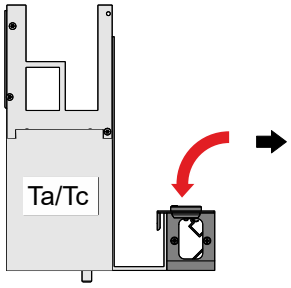
- Clean the drainage gutters to remove greases/oils and contaminants.

2



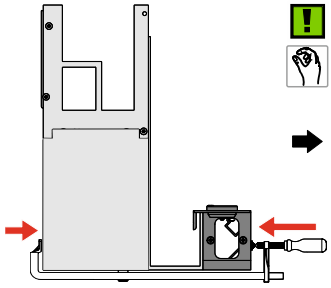
- Remove the protective backing from the adhesive tape on the light rail.

3



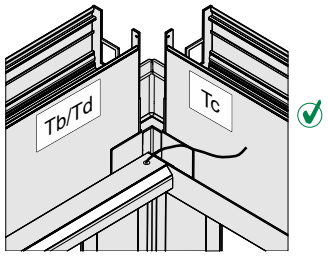
- Attach the hooks of the light rail to the corresponding beam.

4



- Press the light rail firmly against the drainage gutter of the beam using screw clamps.

5



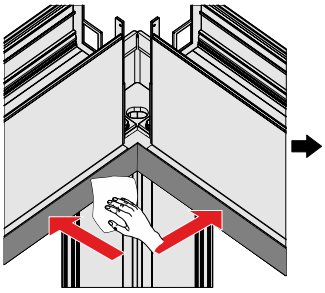
Light rail installation with 4 light rails

NOTICE
Insert wood blocks between the screw clamp and the coated surfaces.

INFO
The bonding/contact surfaces to which sealant is applied must first be treated with cleaning agent and primer.

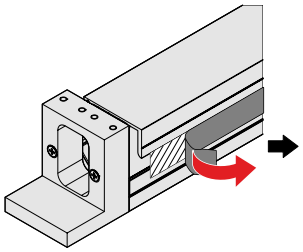
INFO
When installing with 4 light rails, the light rail opposite the connection box is connected to the additional line of the other light rail, which has already been pulled through; this is done using a connector.

1



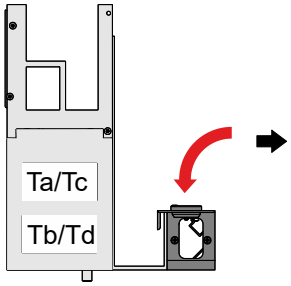
- Clean the drainage gutters to remove greases/oils and contaminants.

2



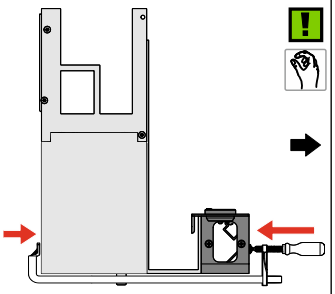
- Remove the protective backing from the adhesive tape on the light rail.

3



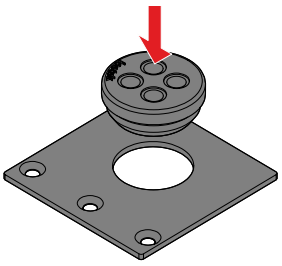
- Attach the hooks of the light rail to the corresponding beam.

4



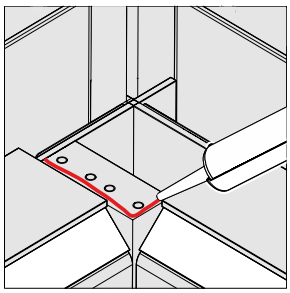
- Press the light rail firmly against the drainage gutter of the beam using screw clamps.

5



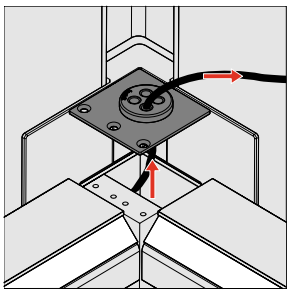
- Press the grommet into the cover sheet.
- Pierce the grommet with a pointed object.

6



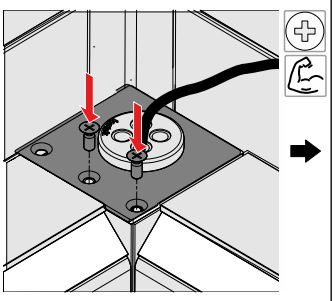
- Apply sealant to the corners of the light rails.

7



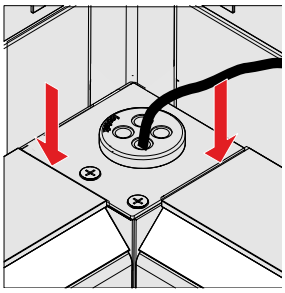
- Pull the line up and out through the grommet at the corners and toward the connection box.

8



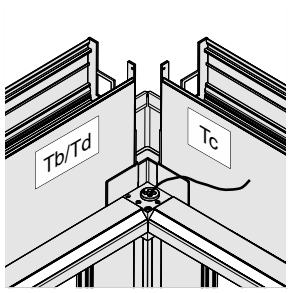
- Attach the cover sheet with screws M4 x 10 (a).

9



- Properly distribute and remove excess sealant.

10

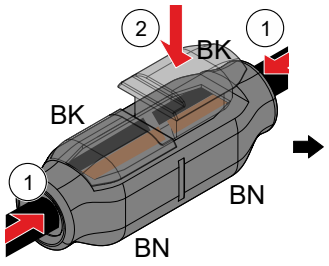
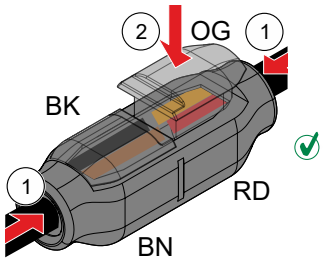


Routing and connecting the RGB connecting line

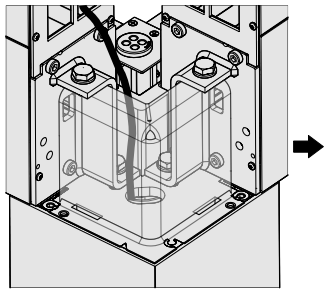
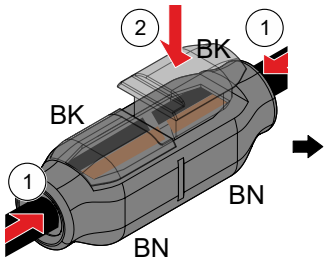
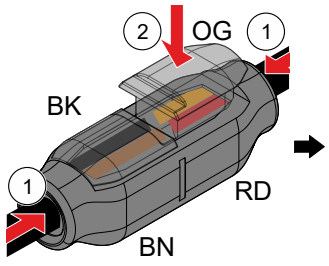
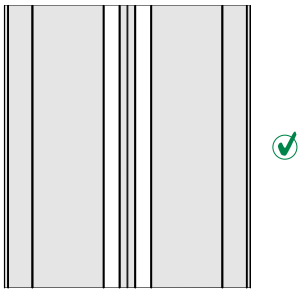
INFO

- For RGB strips, two connectors are used.
- Special feature of RGB strip: direct connection with dimmer - RGB dimmer is connected in distributor 230 V.

Strip	Extension line	Dimmer
Black	Black	Black
Red	Red	Red
Green	Orange	Orange
Blue	Brown	Brown

1	2
	
■ Special feature of RGB strip: direct connection with dimmer ■ Insert the wires all the way into the connector. Note the colours. ■ Using an aid such as tongue-and-groove pliers, push in the two activation levers of the connector so they are flush.	■ Insert the wires all the way into the connector. Note the colours. ■ Using an aid such as tongue-and-groove pliers, push in the two activation levers of the connector so they are flush.

Routing and connecting the LED post connecting line

1	2a	2b	3
			
■ Route the line from the LED post through the beam toward the connection box position.	■ Insert the wires all the way into the connector. Note the colours. ■ Using an aid such as tongue-and-groove pliers, push in the two activation levers of the connector so they are flush.	■ Insert the wires all the way into the connector. Note the colours. ■ Using an aid such as tongue-and-groove pliers, push in the two activation levers of the connector so they are flush.	

6.8 Installing the inside corner brackets

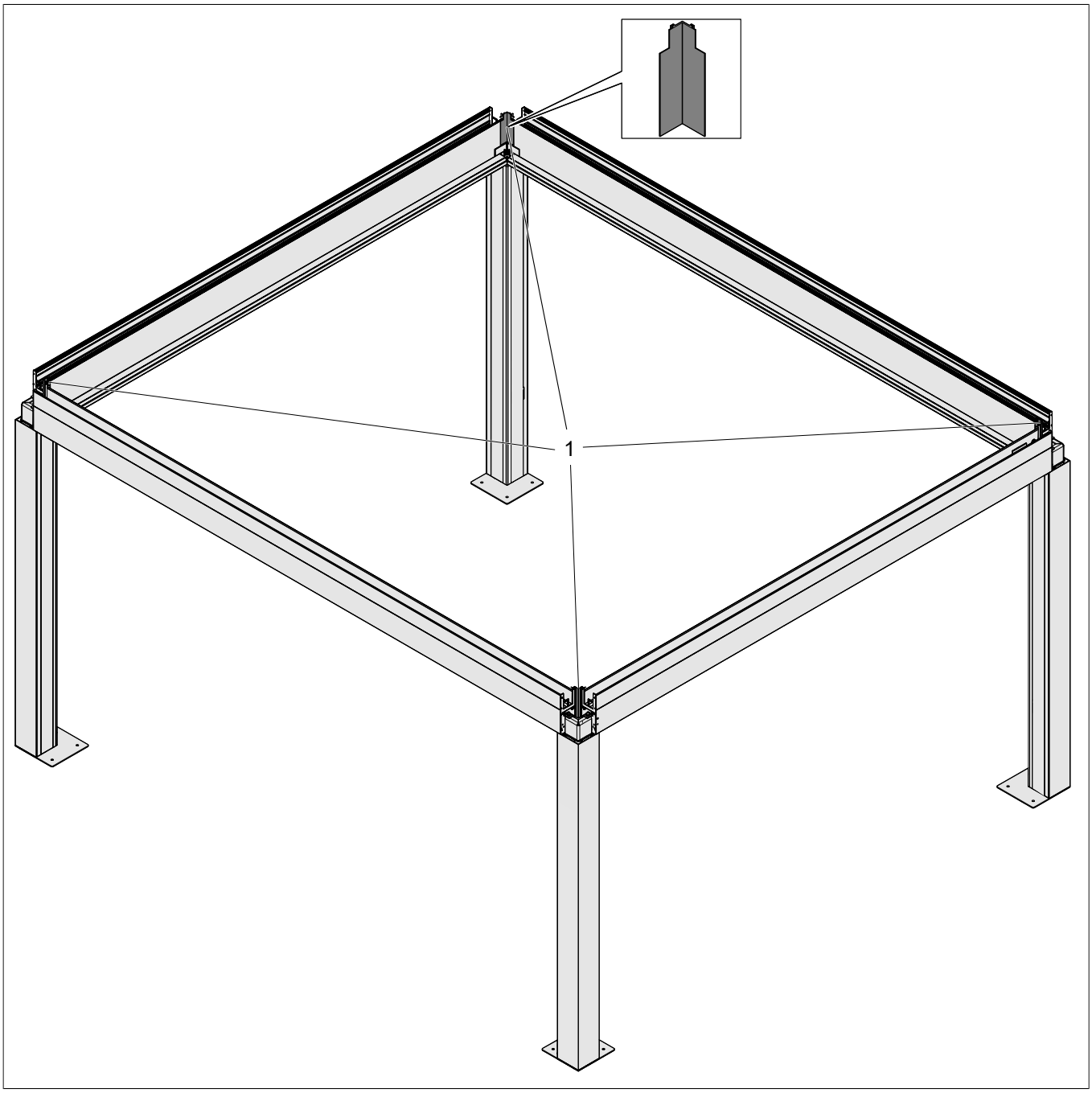
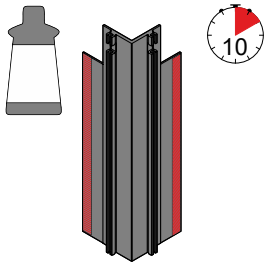


Fig. 20: Installing the inside corner bracket

INFO
The bonding/contact surfaces to which sealant is applied must first be treated with cleaning agent and primer.

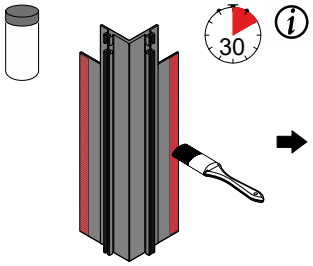
INFO
Only apply primer to the desired surfaces (inside corner brackets and beams).

1



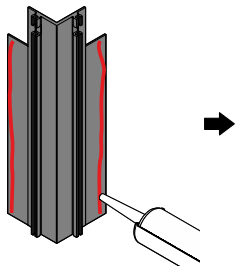
- Clean the surface on which the sealing adhesive is to be applied (Recommendation: Rhobasol 35DSF or Würth IPA cleaner – NOT included in the scope of delivery). → Then wait for 10 min.

2



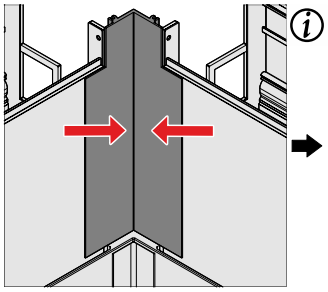
- Treat the cleaned surface with primer (specification: Würth Haftplus Primer for Plastic/Wood/Stone – included; use the REQUIRED personal protective equipment). → Then wait for 30 min.

3



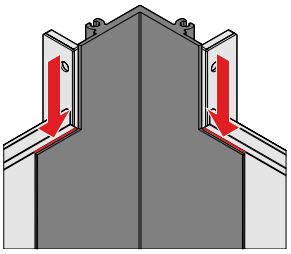
- Apply the sealant on the back of the inside corner bracket (width of sealant bead at least 3 mm).

4



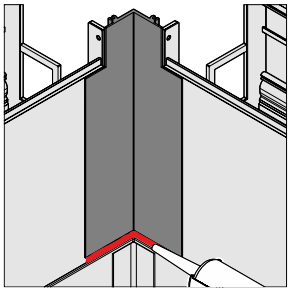
- Press the inside corner bracket into the beam corners and smooth out and protruding sealant.

5



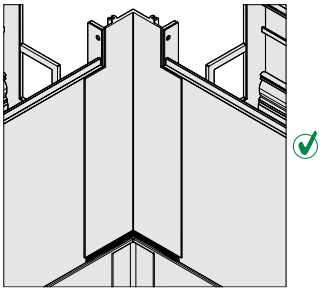
- The top edge of the inside corner bracket must be flush with the bottom edge of the beam.

6

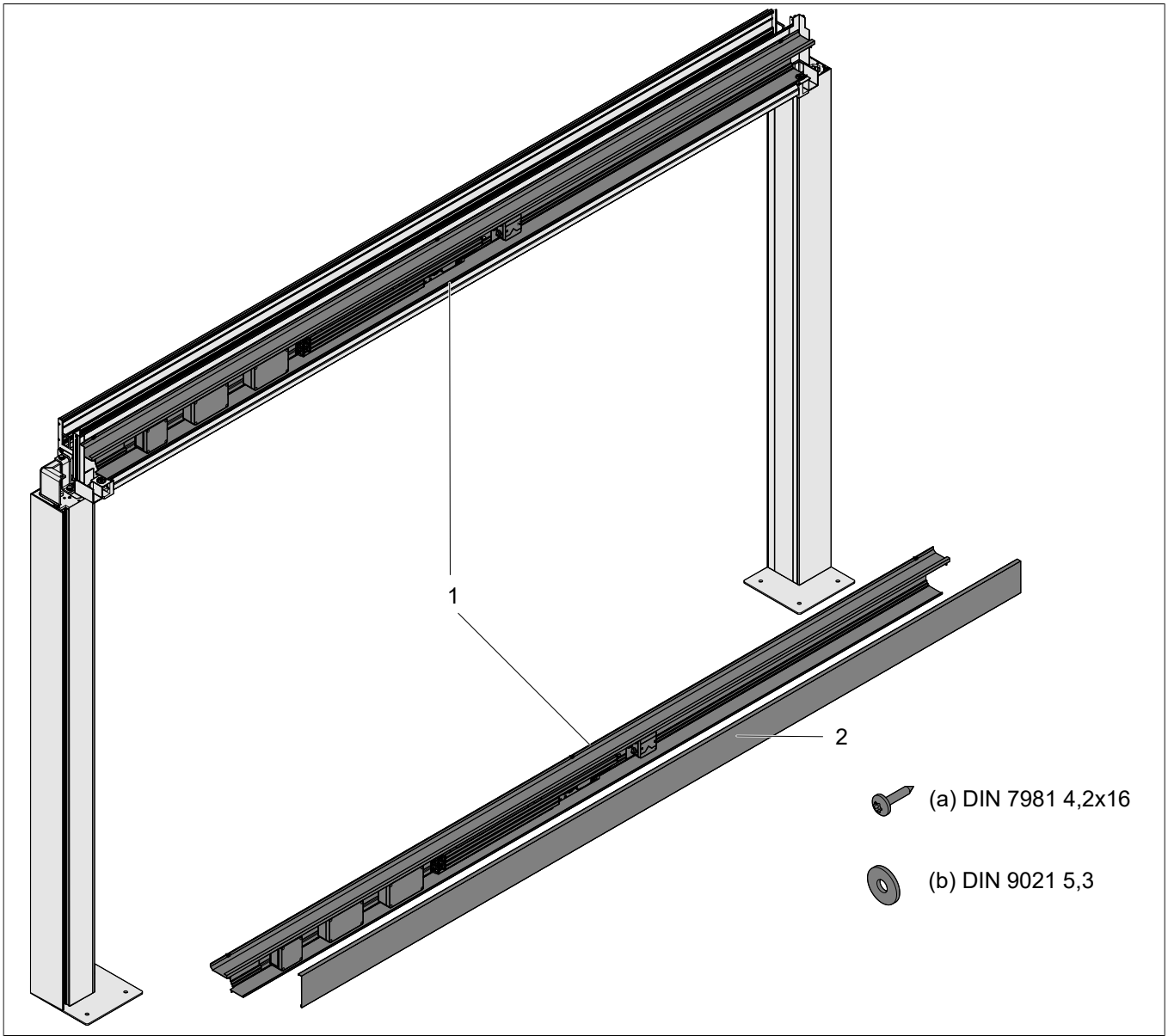


- Apply sealant to the space between the inside corner bracket and the corner bracket.

7

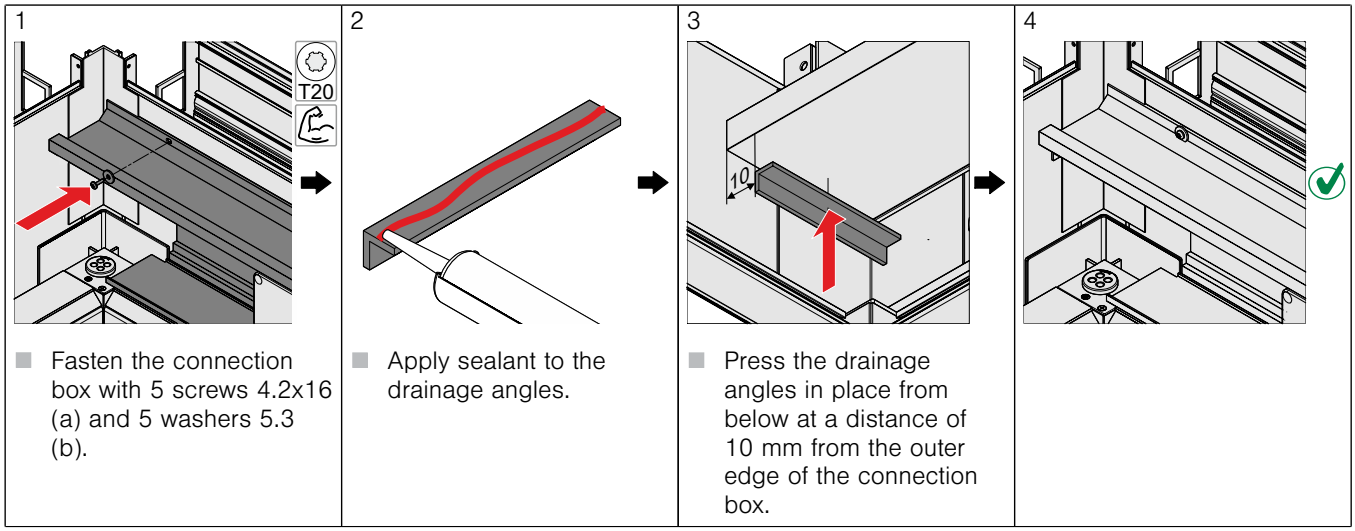


6.9 Installing the connection box



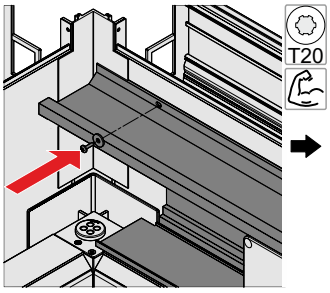
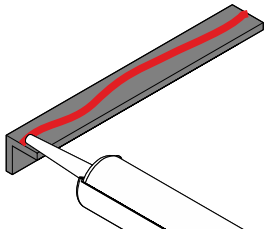
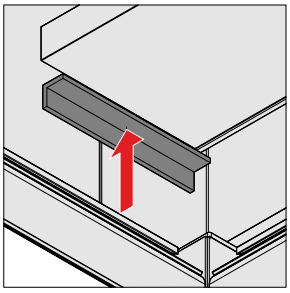
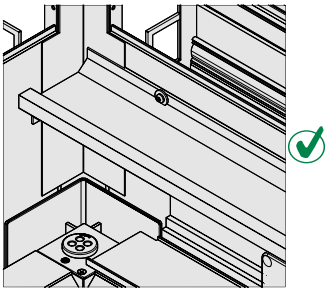
1	Connection box	a	Pan-head tapping screw DIN 7981 4.2x16
2	Inspection cover	b	Washer DIN 9021 5.3

Fig. 21: Installing the connection box

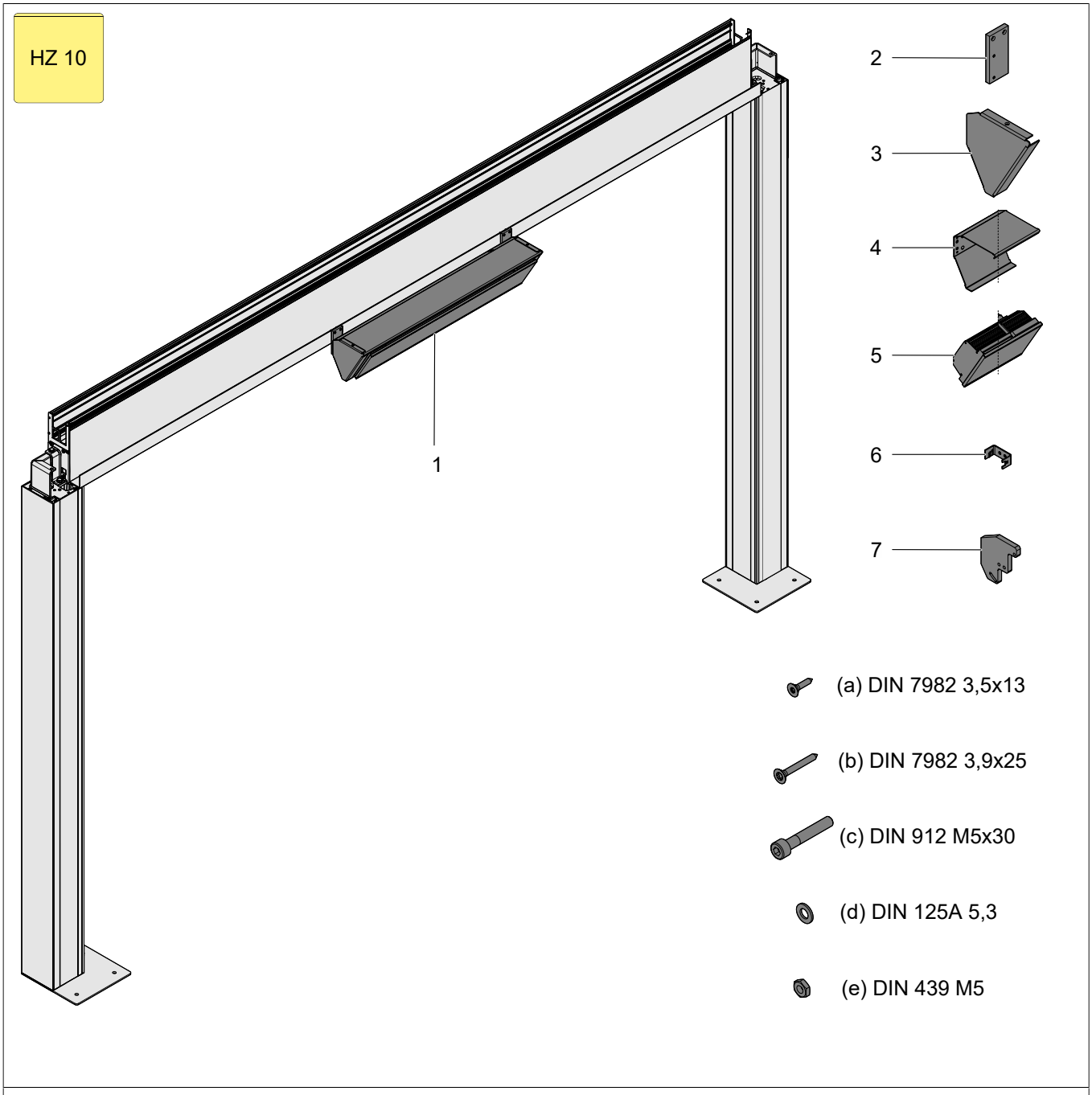


1. Fasten the connection box with 5 screws 4.2x16 (a) and 5 washers 5.3 (b).
2. Apply sealant to the drainage angles.
3. Press the drainage angles in place from below at a distance of 10 mm from the outer edge of the connection box.

INFO
The bonding/contact surfaces to which sealant is applied must first be treated with cleaning agent and primer.

1	2	3	4
			
■ Fasten the connection box with 5 screws 4.2 x 16 (a) and 5 washers 5.3 (b).	■ Apply sealant to the drainage angle (width of the sealant bead min. 3 mm).	■ Press the drainage angles in place from below against the outer edge of the connection box.	

6.10 Installing the radiant heater (optional)



1	Radiant heater	7	Console
2	Radiant heater bracket	a	Countersunk head tapping screw DIN 7982 3.5x13
3	Cover cap	b	Countersunk head tapping screw DIN 7982 3.9x25
4	Housing	c	Hexagon screw DIN 912 M5x30
5	Radiant heater	d	Washer DIN 125A 5.3
6	Snaplock bracket	e	Hex nut DIN 439 M5

Fig. 22: Installing the radiant heater

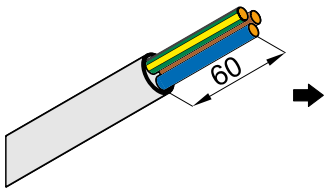
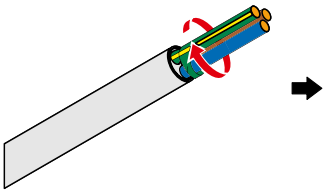
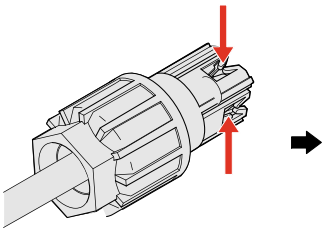
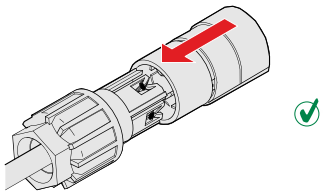
Technical data

INFO
Maximum number per slat roof is 4 pieces.

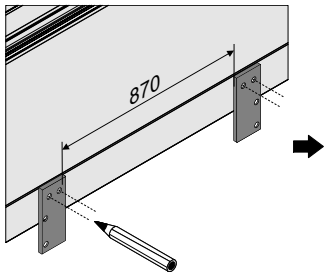
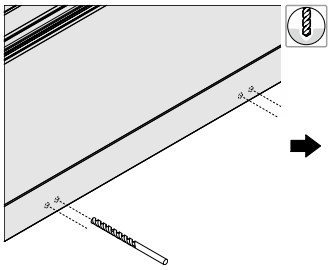
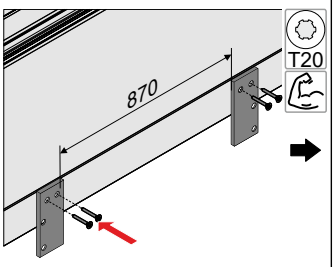
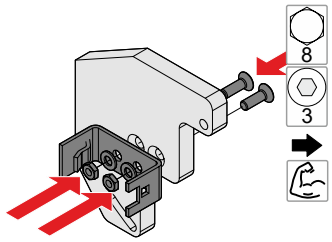
For the radiant heater, an in-line circuit breaker with type C16 is **mandatory**.

The technical data for the Design radiant heater are in the corresponding table (see Tab. 7/Page 9).

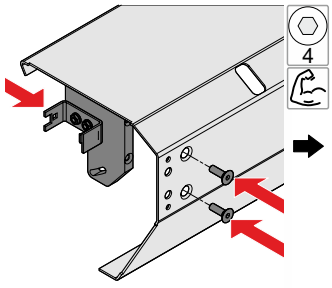
Connecting the line connection

1	2	3	4
			
■ Strip approx. 60 mm off the line.	■ Loop the PE conductor around the live conductor. By pulling forcefully on the line, the PE conductor is pulled out of the terminal as the last step.	■ Insert the line in the nut and inside part. ■ Secure the wires in the line holder of the inside part. Note the label. ■ Cut the wires off flush with the line holder.	■ Slide the centre part onto the nut in the correct position. ■ Screw the nut (size 15) onto the centre part (tightening torque of 1.5 Nm).

Installing the housing

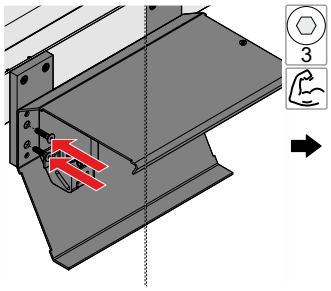
1	2	3	4
			
■ Hold the brackets for the radiant heater against the vertical wall of the rain gutter while adhering to the specified minimum distances. ■ Align the brackets horizontally so that the top edge of the bracket is level with the top edge of the rain gutter and transfer the fixing template.	■ Drill the fixing holes ∅ 3.5 mm at the markings.	■ Attach the intermediate plate to the rain gutter using the drilling screws Zebra Pias 3.9 x 20 (in accessories).	■ Connect the consoles with the snaplock parts.

5



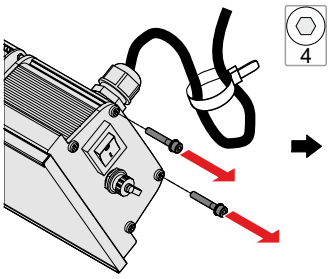
- Install the consoles on the housing.

6



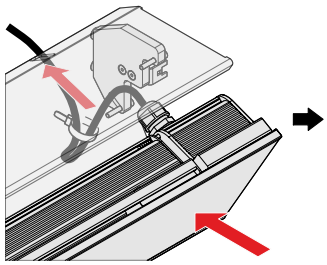
- Attach the housing to the intermediate plate using the screws M5x8 (in accessories).

7



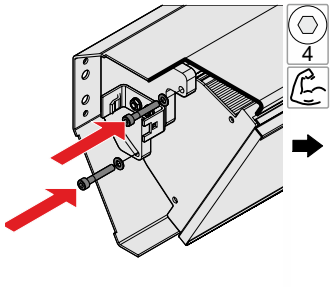
- Unscrew the screws from the radiant heater.

8



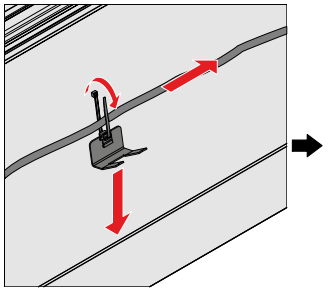
- Position the radiant heater in front of the housing and pass the radiant heater line through the opening in the housing to the outside.

9



- Position the radiant heater between the consoles and fasten it to the console using 2 screws M5x30 and 2 washers 5.3.

10



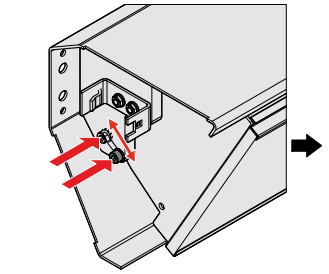
INFO

Installation under connection box

- Introduce a drilled hole into the connection box.

- Route the radiant heater line in the rain gutter toward the connection box.
- Place the bracket into the rain gutter.
- Attach the radiant heater line to the bracket using cable ties.

11



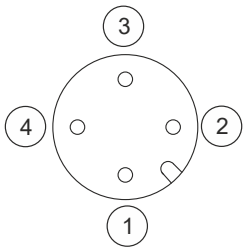
- Release the bottom screws on both sides.
- Adjust the radiant heater in the oblong hole to the desired angle.
- Tighten the bottom screws on both sides.

INFO

The standard inclination is 30°. The inclination angle can be continuously adjusted to a maximum angle of 40°.

Installing the WMS Dimmer 0-10 V (optional)

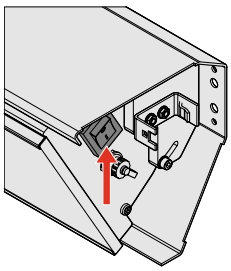
12



1	Operating voltage 12 V DC
2	GND
3	GND
4	Output voltage 0-10 V

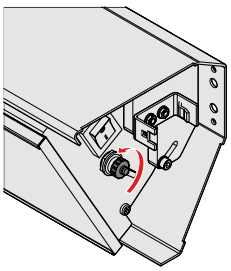
- Switch off the 230 V AC voltage supply of the radiant heater.

13



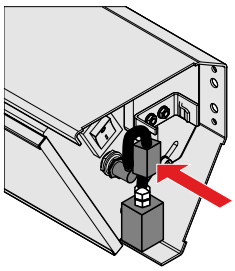
- Switch off the rocker switch off the radiant heater.
- Switch off the 230 V AC power supply of the radiant heater.

14



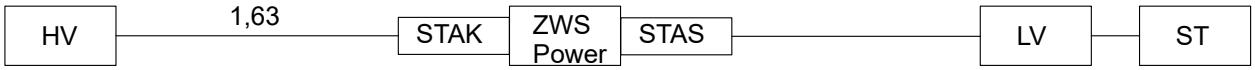
- Unscrew the protective cap.

15



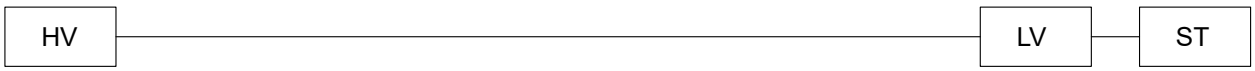
- Plug the WMS Dimmer 0-10 V into the socket. Ensure that the plug connector has the right orientation.
- Manually tighten the knurled nut of the plug connector.
- Route the connecting line in a loop. Position the connecting line and the WMS Dimmer 0-10V outside of the snaplock connection.

Connecting the radiant heater



HV	Main distributor	STAS	STAS
1,63	Cable length	LV	Line distributor
STAK	STAK	ST	Heater
ZWS Power	Power plug receiver		

Fig. 23: Radiant heater connection variant without dimmer



HV	Main distributor	ST	Heater/dimmer
LV	Line distributor		

Fig. 24: Radiant heater connection variant with dimmer

INFO
The product is equipped with a power plug for connecting to a mains socket.

INFO

▶ An on-site all-pole disconnecting and isolating switch must be provided.

Without WMS Dimmer 0-10 V

▶ The product without a WMS Dimmer 0-10 V can be connected to a mains voltage of 230 V/50 Hz via a WMS Plug receiver power. Follow the instructions for the WMS Plug receiver power.

With WMS Dimmer 0-10 V

▶ The product with a WMS Dimmer 0-10 V can be connected directly to a mains voltage of 230 V/50 Hz.

With WMS Dimmer 0-10 V

▶ Pair the WMS Hand-held transmitter with the WMS Dimmer 0-10 V.

With WMS Plug receiver power

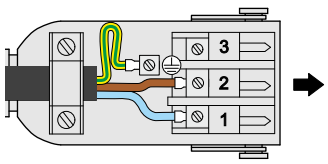
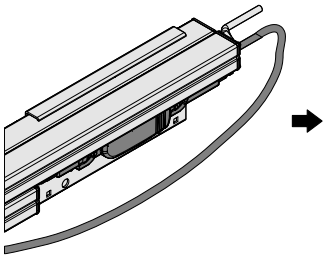
▶ Pair the WMS Hand-held transmitter with the WMS Plug receiver power.

CAUTION

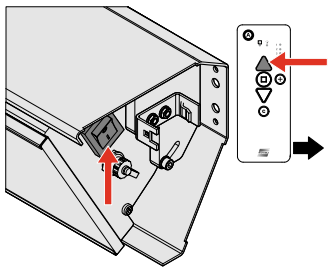
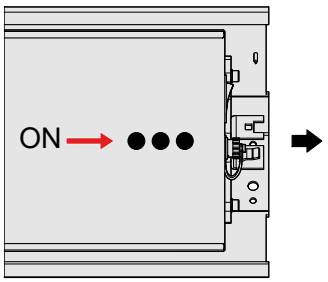
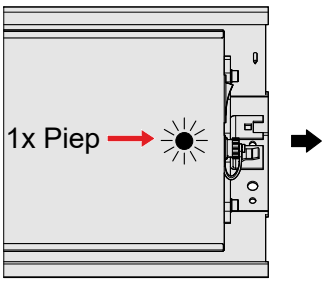
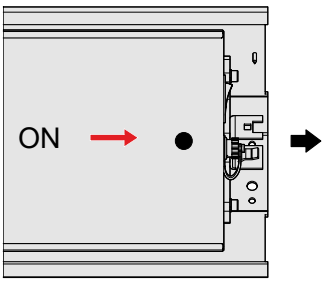
Risk of injury on hot surface!

During installation, the rocker switch could be set to ON by mistake. In this case, the radiant heater would immediately start heating when connected.

- Before connecting, ensure that the rocker switch is set to OFF.

16	17
	
■ Connect the STAS 3 coupling to the extension.	■ Route the extension in a wide arc around the installed plug-in connector. ■ Connect the plug-in connector. ■ Attach the extension to the panel above and below using the preinstalled cable ties.

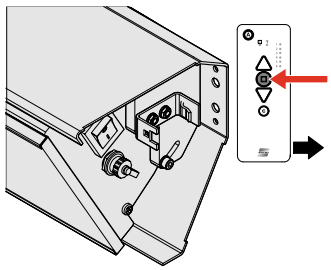
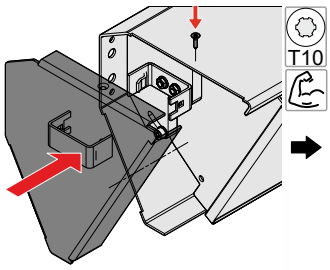
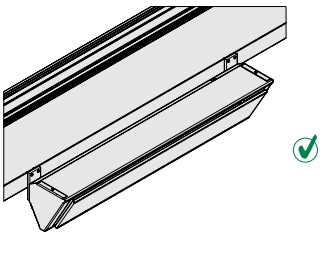
Performing a functional check

18	19	20	21
			
■ Switch on the operating voltage. ■ Switch the radiant heater on at the rocker switch.	**Without** WMS Dimmer 0-10 V/**Without** WMS Plug receiver power ■ The radiant heater begins heating at the maximum level (100%). The ceramic glass disk lights up red after a short time and radiates heat.	**With** WMS Dimmer 0-10 V (without/with WMS Plug receiver power) ■ The radiant heater emits a beep. The radiant heater is in standby mode and the heating status LED flashes.	**With** WMS Dimmer 0-10 V (without/with WMS Plug receiver power) ■ Switch the radiant heater on with the learned WMS hand-held transmitter. The radiant heater begins heating up. The heating status LED lights up red. The product starts at the lowest level (1 LED) with a short press of the button and at the highest level (3 LEDs) with a long press of the button. The ceramic glass disk lights up red after a short time and radiates heat.

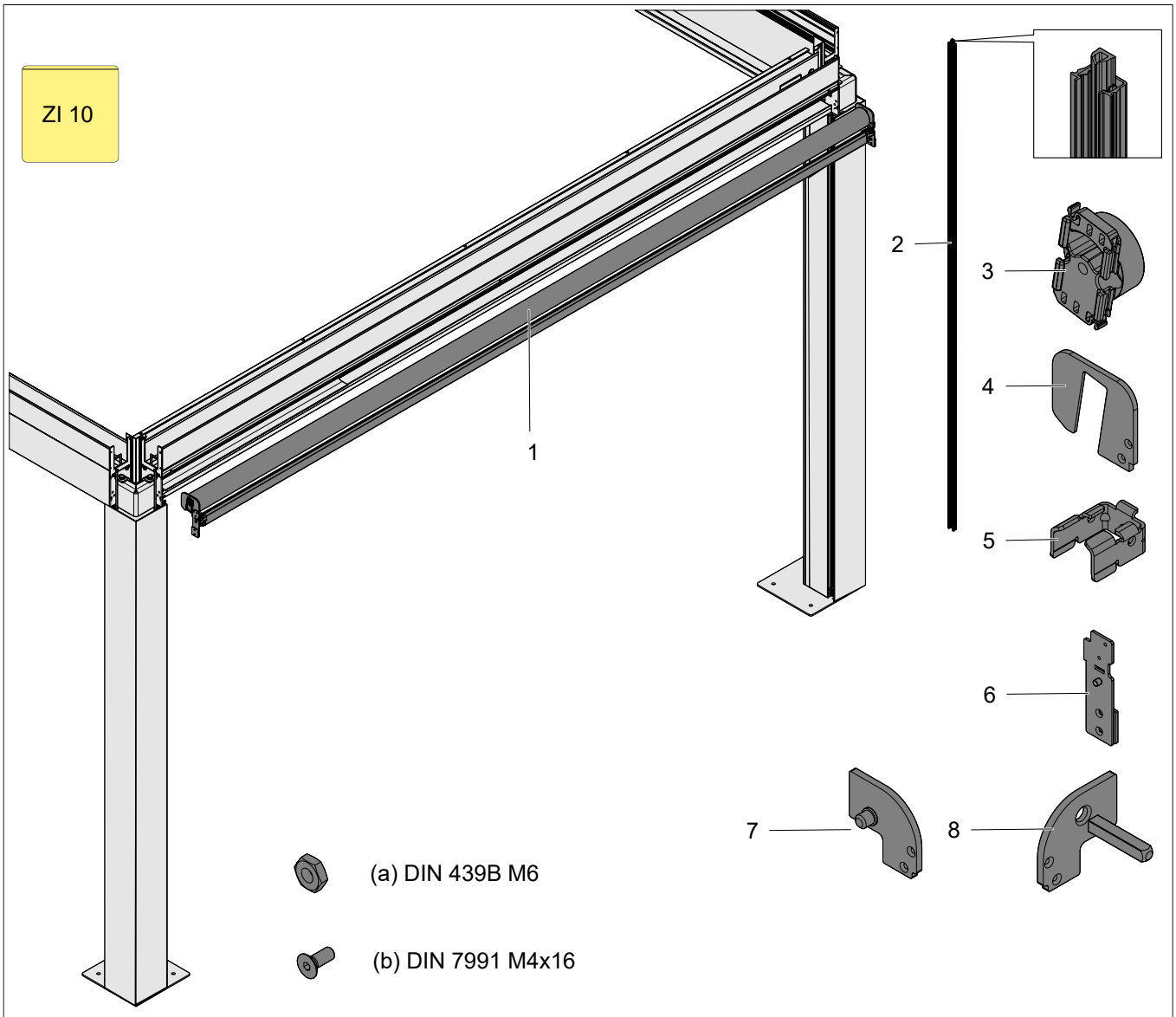
Switching off the radiant heater and installing the covers

INFO
The radiant heater must be switched off on the hand-held transmitter before the rocket switch is actuated.

The rocker switch on the radiant heater is not used for switching the unit on and off because it is not accessible.

22	23	24
		
■ Switch off the radiant heater on the hand-held transmitter.	■ Slide the cover caps on both sides laterally onto the housing until the two snaplock parts are engaged with each other. ■ Secure each cover cap using one screw.	

6.11 Installing the integrated awning with easyZIP guidance (optional)



1	Fabric shaft	6	Console bracing
2	Clip profile	7	Spring shaft core on non-drive end for integrated awing < 3000 mm
3	Shaft seat	8	Console bearing pin for integrated awning < 3000 mm
4	Console	a	Hex nut DIN 439B M6
5	Limit stop	b	Countersunk head screw with hexagon socket DIN 7991 M4 x 16

Fig. 25: Installing the integrated awning with easyZIP guidance (optional)

INFO
The countersunk holes of the consoles must face the inside of the fabric shaft.

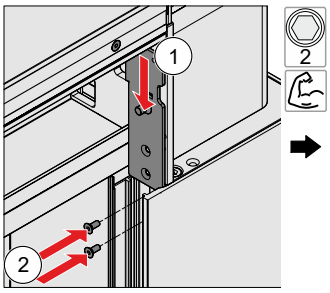
INFO
Unroll the awning fabric by one turn before inserting the fabric shaft.

INFO
The plug connector must engage audibly - a clicking noise can be heard.

INFO
Note the unwinding direction of the fabric shaft. The fabric shaft unwinds toward the outside.

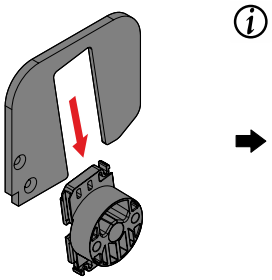
INFO
If the inspection cover is divided, the cutting edges are treated with a touch-up pen.

1



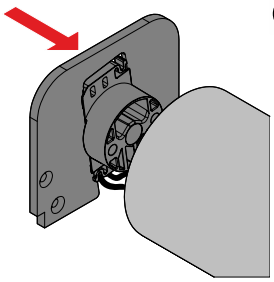
- Slide the bracings into the guide groove in the pole on both sides.
- Attach the bracings using screws M4 x 10 (b).

2



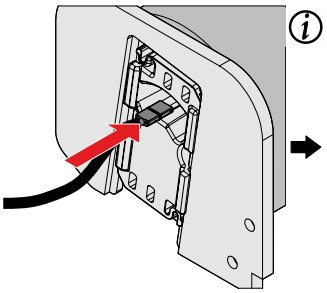
- Slide the consoles onto the motor shaft seat.

3



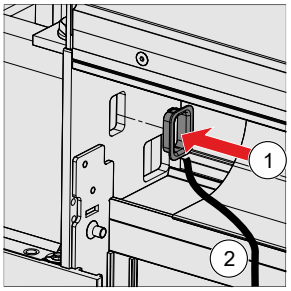
- Slide the combination onto the fabric shaft on the non-drive end.

4



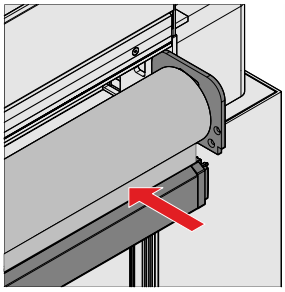
- Insert the motor line into the motor head.

5



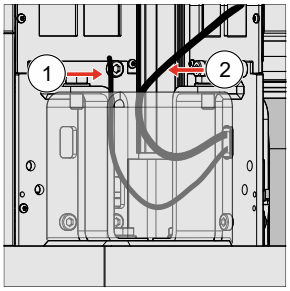
- Place the cable protector (1) into the beam opening.
- Pass the antenna and motor line through.

6



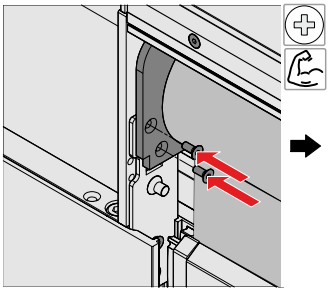
- Insert the fabric shaft into the beam.

7



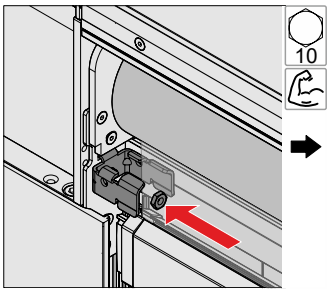
- Slide the motor line (2) over the antenna (1) and through the beam opening.

8



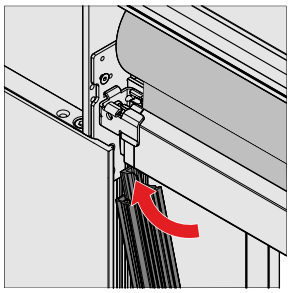
- Fasten the console on the drive end using screws M4x10 (b) - socket head screws.

9



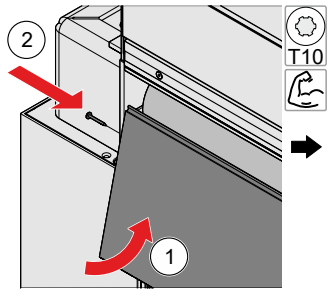
- Fasten the limit stops using nut M6 (a).

10



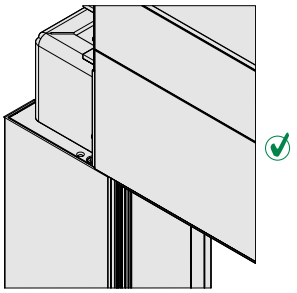
- Thread the zipper into the clip profile and then press the clip profile into the pole.

11



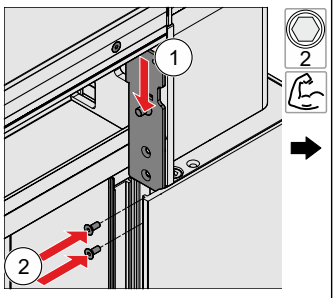
- Pivot the inspection cover (1) in.
- Screw in the screws 3.5x25on both sides and tighten.

12



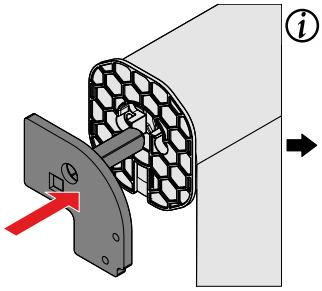
Installing the integrated awning < 3000 mm wide

1



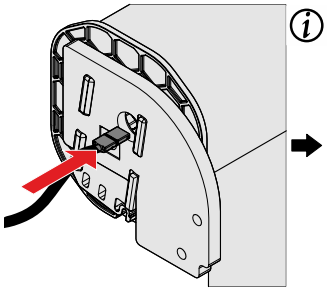
- Slide the bracings into the guide groove in the post on both sides.
- Attach the bracings using screws M4 x 16 (b).

2



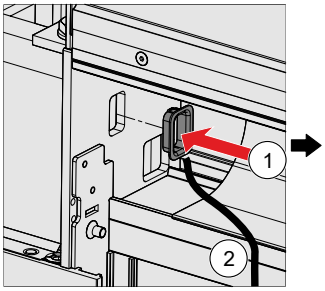
- Insert the console into the fabric shaft.

3



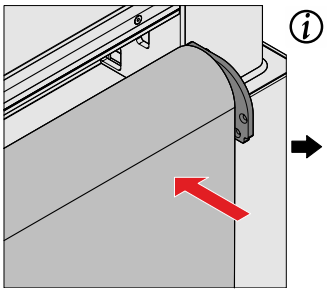
- Insert the motor line into the motor head.

4



- Place the line guard (1) into the beam opening.
- Pass the antenna and motor lines through the line guard.

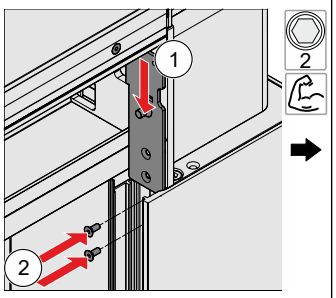
5



- Insert the fabric shaft into the beam.

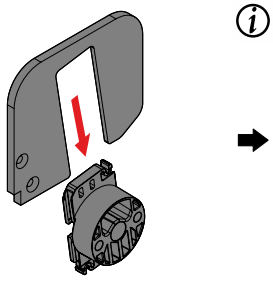
Installing the integrated awning >3000 mm wide

1



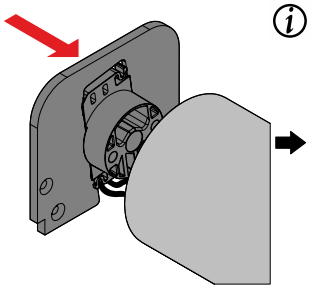
- Slide the bracings into the guide groove in the post on both sides.
- Attach the bracings using screws M4 x 16 (b).

2



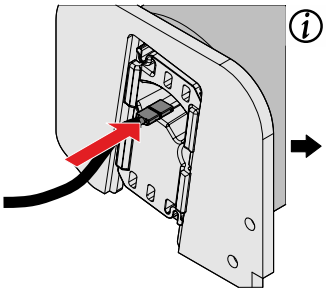
- Slide the consoles onto the motor shaft seat.

3



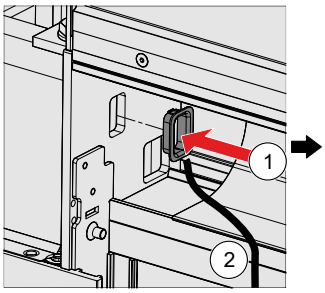
- Slide the combination onto the fabric shaft on the non-drive end.

4



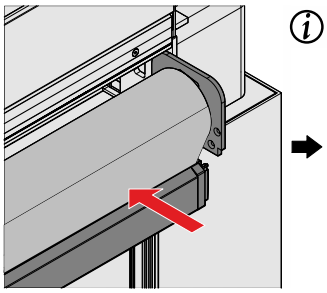
- Insert the motor line into the motor head.

5



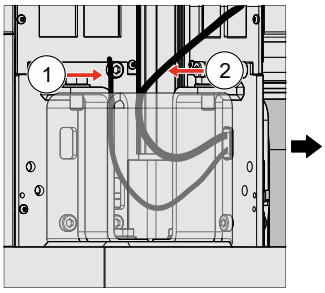
- Place the line guard (1) into the beam opening.
- Pass the antenna and motor lines through the line guard.

6



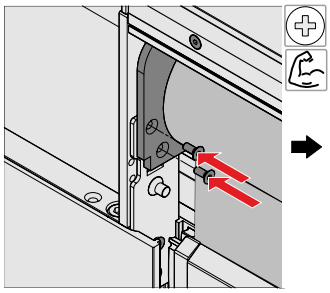
- Insert the fabric shaft into the beam.

7



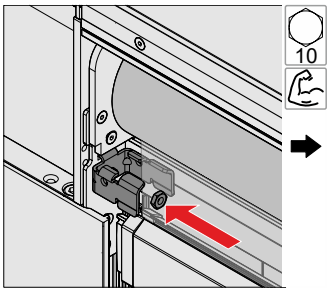
- Insert the motor line (2) over the antenna line (1) and through the beam opening.

8



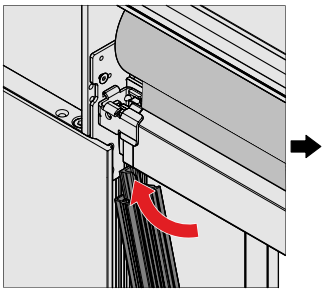
- Fasten the console on the drive end using M4 x 16 (b) socket head screws.

9



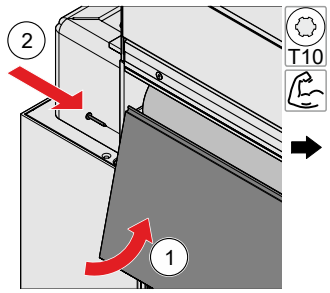
- Fasten the limit stops using nut M6 (a).

10



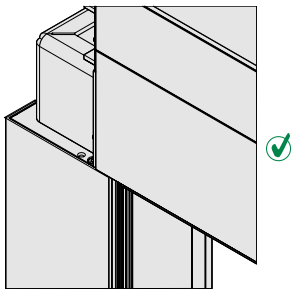
- Thread the zipper into the clip profile and then press the clip profile into the post.

11



- Pivot the inspection cover (1) in.
- Screw in and tighten the screws 3.5 x 25 on both sides.

12



6.12 Wiring and cable routing diagram

WARNING
Risk of electric shock from insufficient care!

The line can be damaged by moving parts!

- Keep the line away from all moving parts.

INFO
These instructions show only the standard line routing. All other line routings are available via the following QR code.

INFO

Delivery condition > 9 power consumers	Delivery condition < 9 power consumers
■ Premounted at the factory	■ Additional distributor 230 V premounted at the factory ■ Connection clamp and connecting line in accessories ■ Routing and connecting of cables on-site by qualified specialist

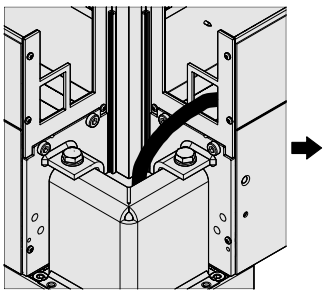
INFO
Power consumers like radiant heaters or power sockets are connected directly to the main distributor. It is important to note that a maximum of two consumers are permitted to be connected per main distributor. Any additional consumers must be connected to a separate connecting line.

INFO
Route the lines and antenna cable through the corresponding grommets and cable conduits.

INFO
The lines can be connected to any vacant terminal.

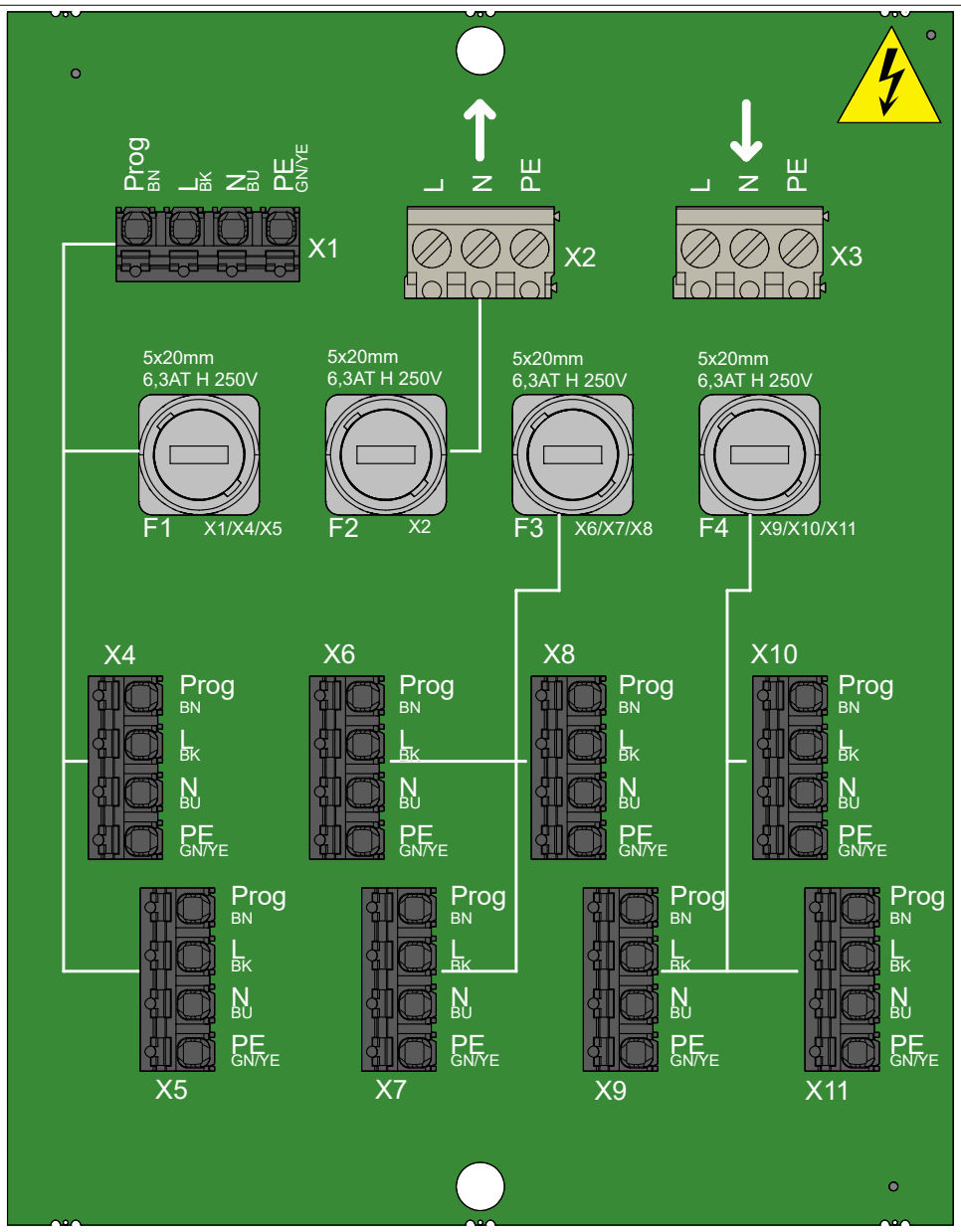
Line routing (outer post)

1



■ Route the ground line through the beam.

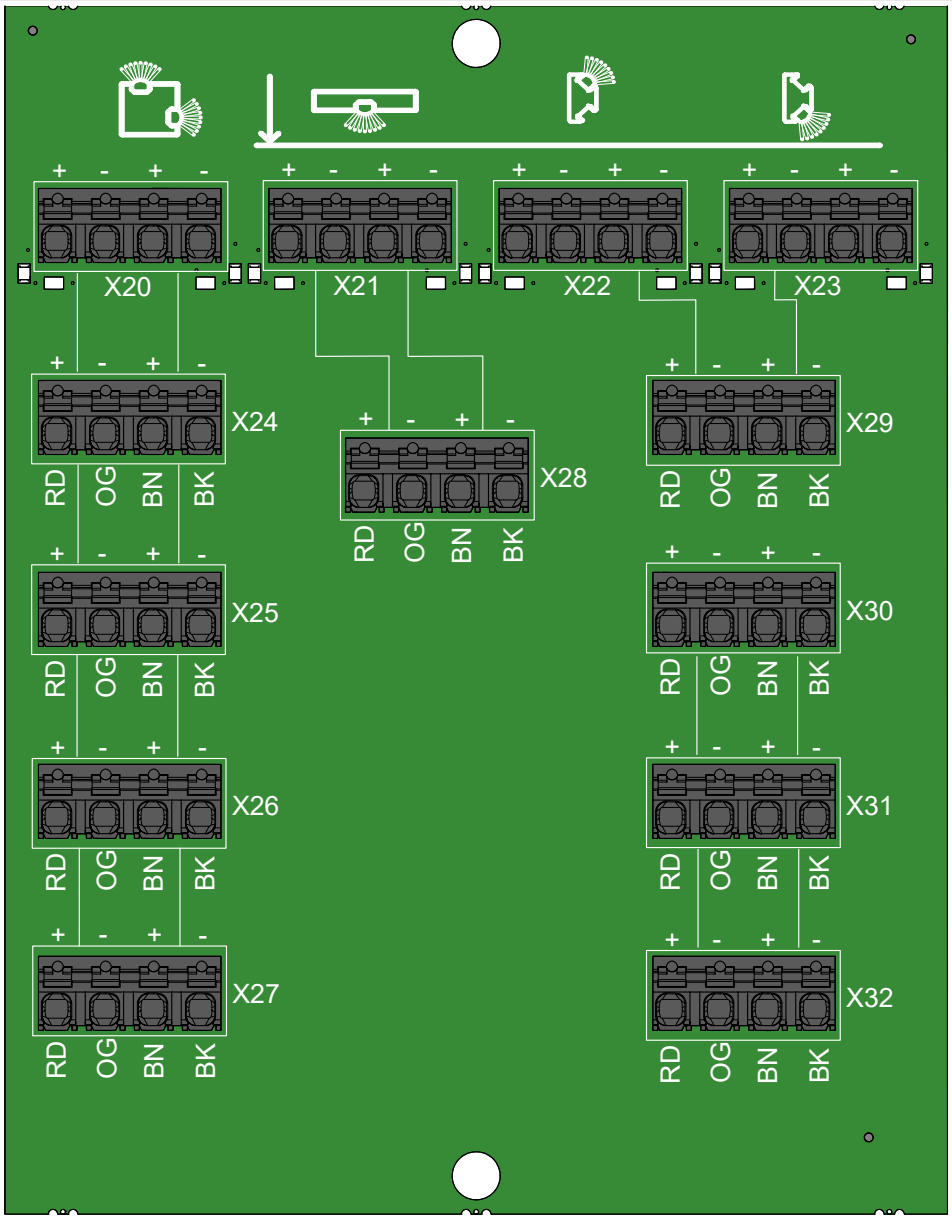
Distributor 230 V



Prog/ BN Brown wire	N/ BU Blue wire
L/BK Black wire	PE/ GNYE Green-yellow wire

Fig. 26: Distributor 230 V

Distributor LED



	LED pole	BN	Brown wire
	LED slat	BK	Black wire
	Indirect beam LED lighting	RD	Red wire
	Direct beam LED lighting	OG	Orange wire

Fig. 27: Distributor LED

The line routing to the distributors is marked when the line is passed through the inside corner of a cover panel. If the line routing passes through the rain gutter directly into the connection box, this is not marked on the plan.

The meanings of the abbreviations and colours are explained below.

L60 LED slat/pole without radiant heater

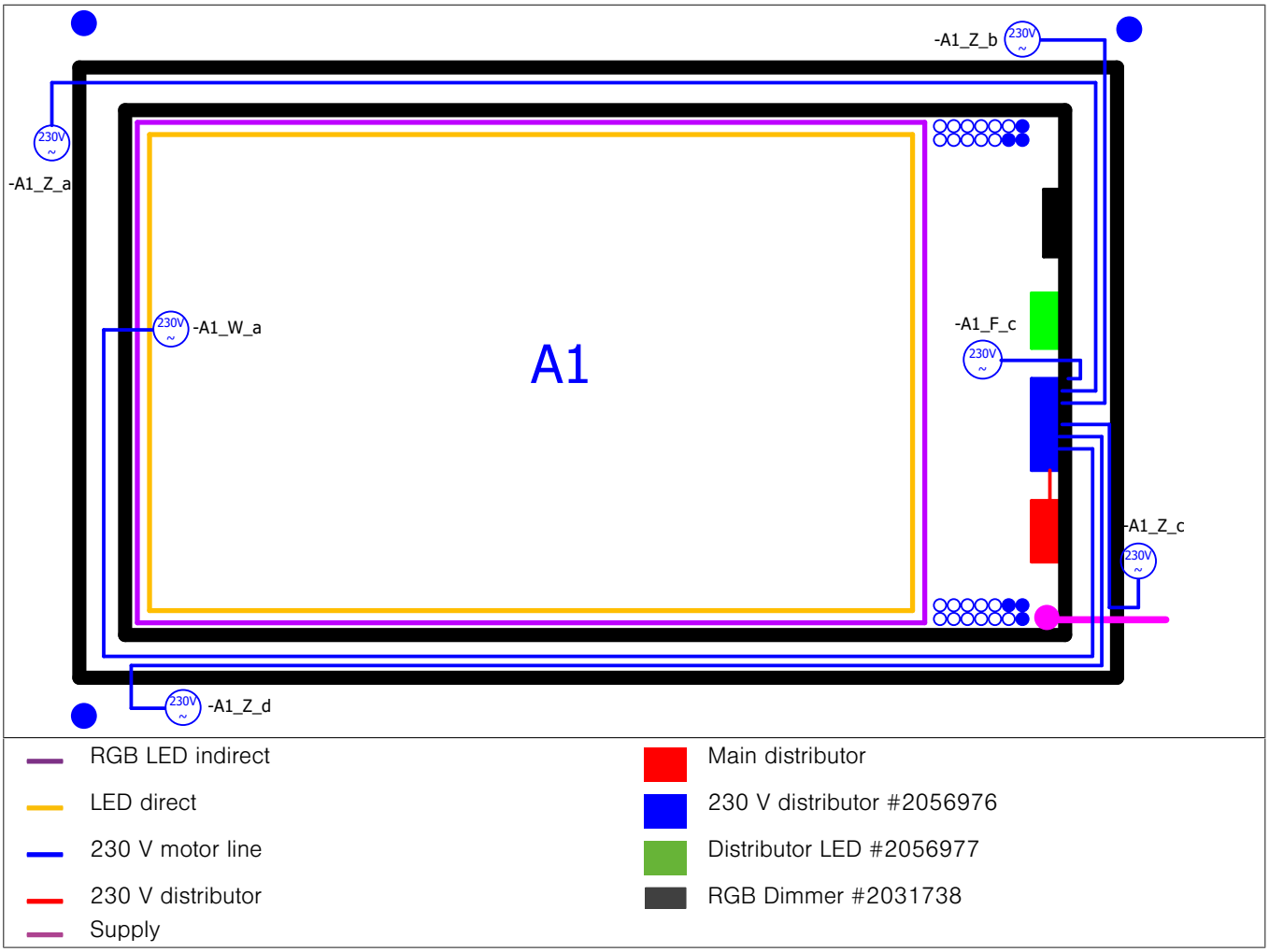


Fig. 28: L60 LED slat/pole without radiant heater

L60 LED slat/pole with radiant heater

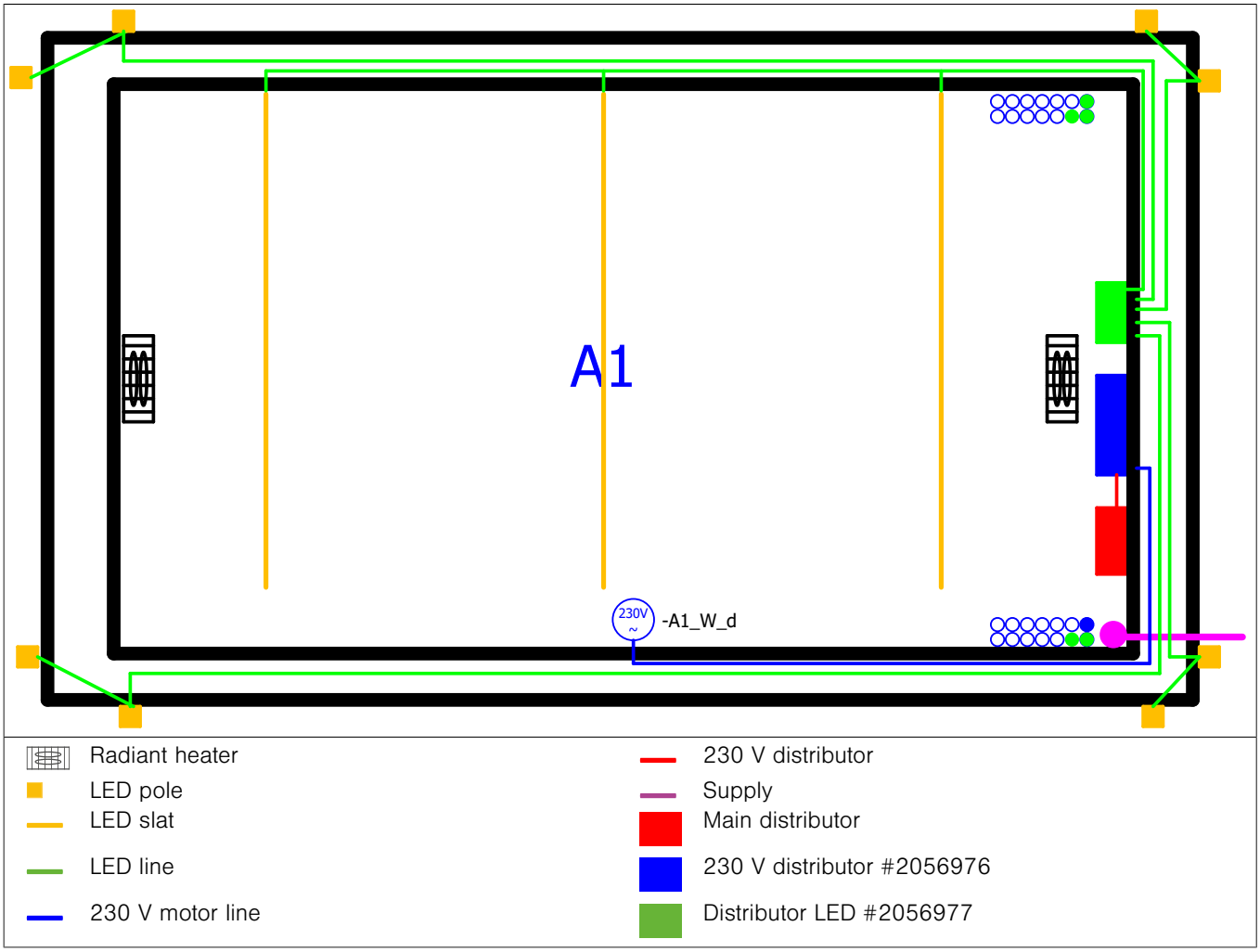


Fig. 29: L60 LED slat/pole with radiant heater

L60 wall connection ZIP LED direct/indirect without radiant heater

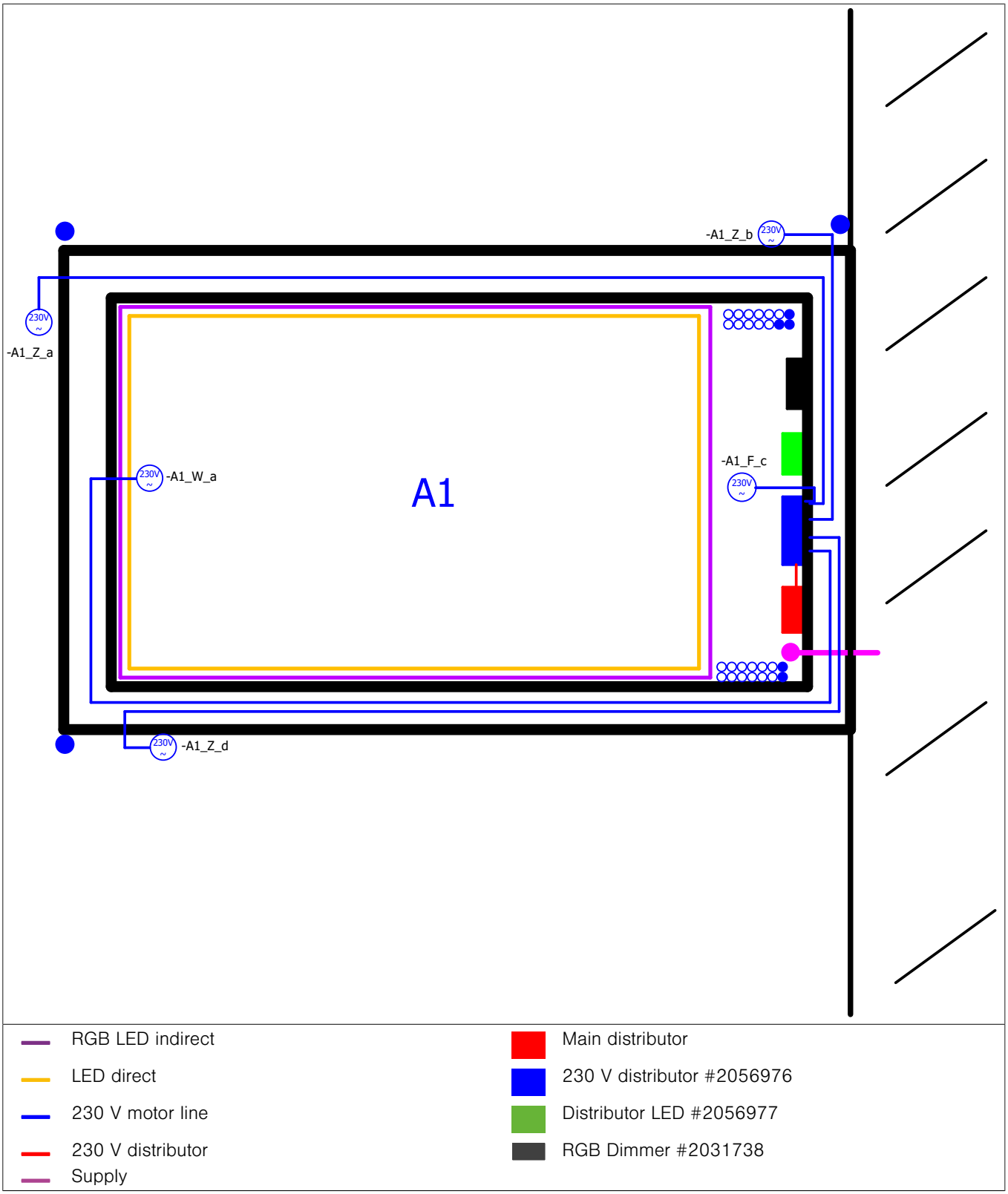


Fig. 30: L60 wall connection ZIP LED direct/indirect without radiant heater

L60 LED wall connection slat/pole with radiant heater

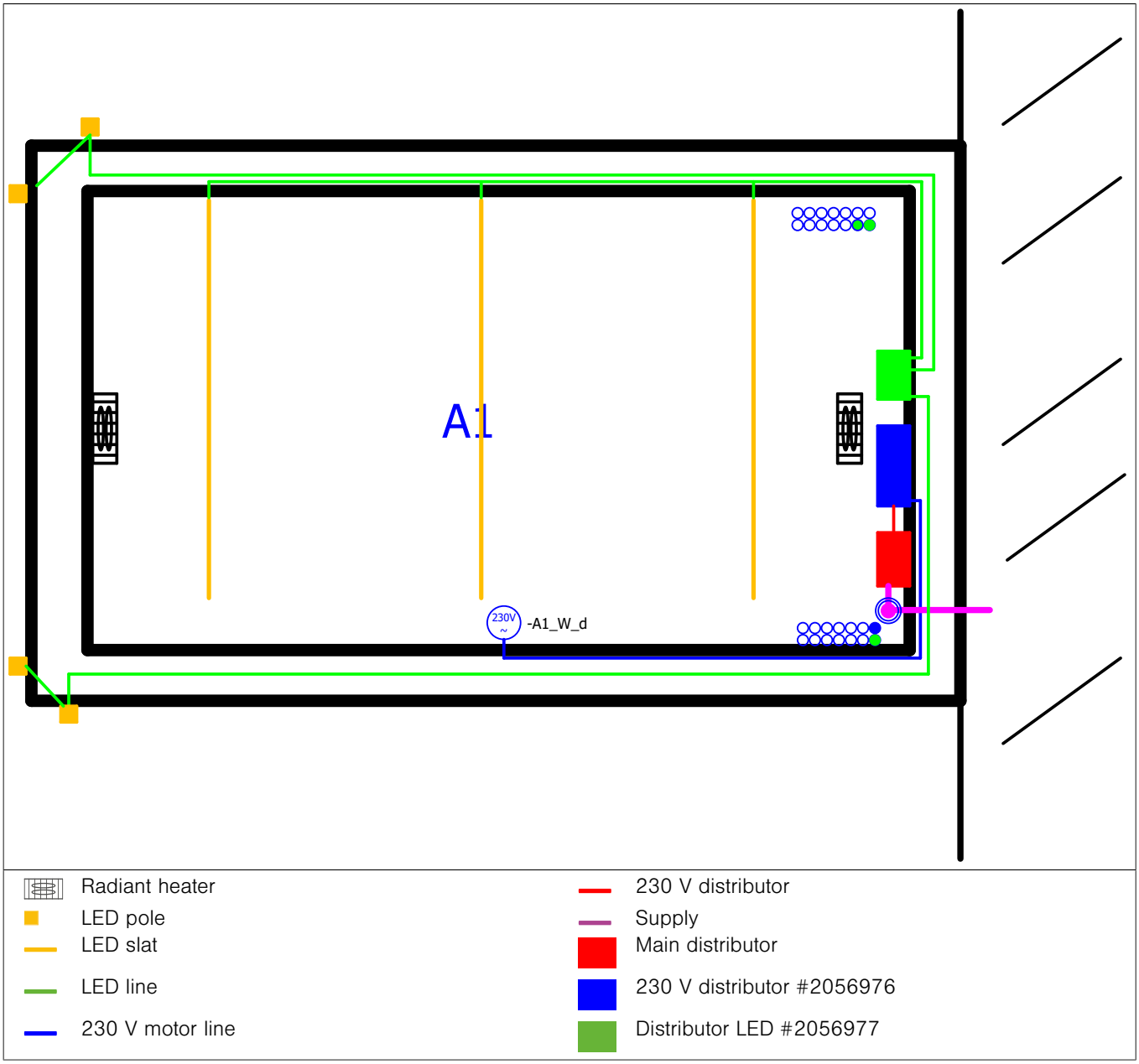
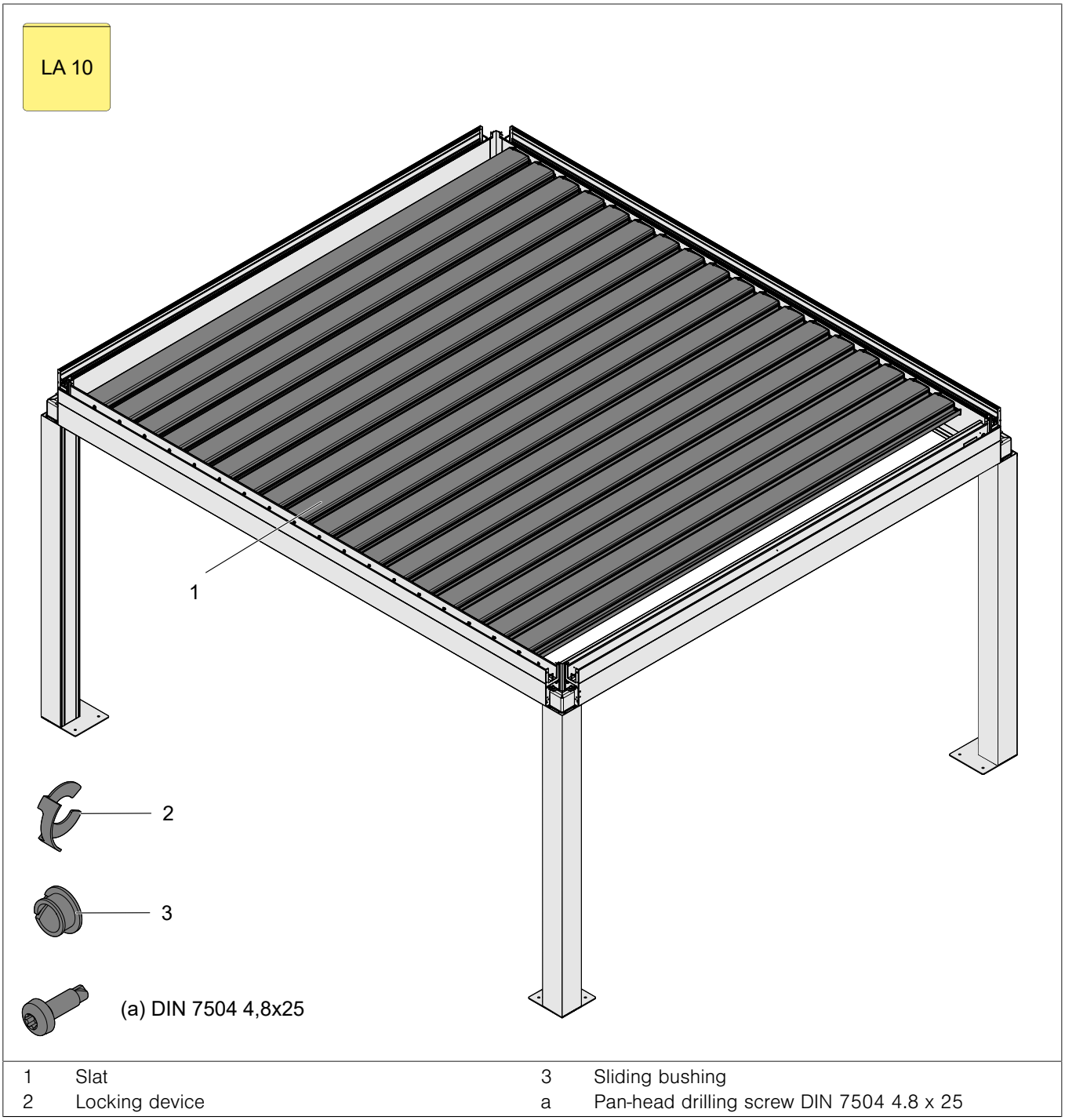


Fig. 31: L60 LED wall connection slat/pole with radiant heater

6.13 Installing the slats

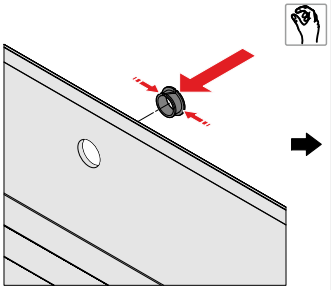


1	Slat	3	Sliding bushing
2	Locking device	a	Pan-head drilling screw DIN 7504 4.8 x 25

Fig. 32: Installing the slats

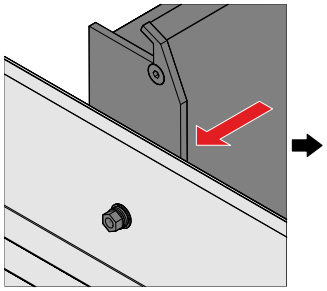
Installing the motor slat

1



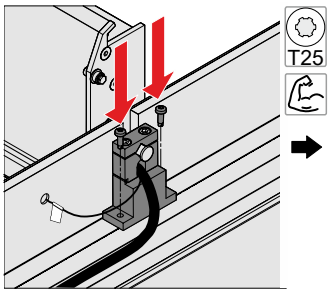
- Press the bushing for the motor slat into the openings provided for this purpose on the non-drive end in the beams.

2



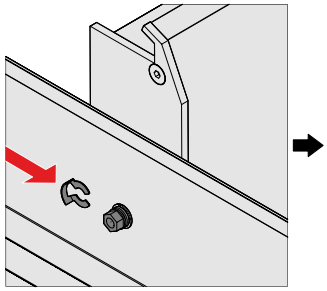
- Press the motor slat with the non-drive end into the bushing.

3



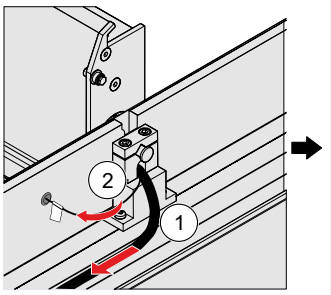
- Lower the motor slat into the indicated position and fasten using 2 screws 4.8x16 (a).

4



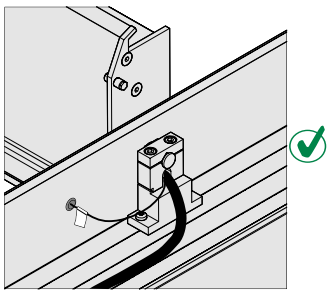
- Secure the motor slat on the non-drive end using the securing pin.

5



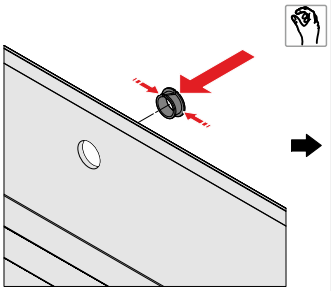
- Route the line to the connection box, if present.
- Pass the antenna through the provided grommet and pull it out by approx. 50 mm. Then insert it in the cutout intended for this purpose in the beam.

6



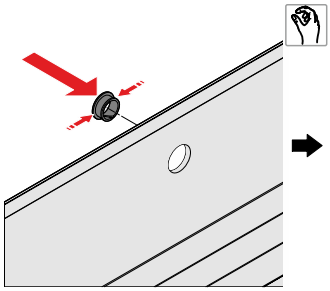
Installing the slat

1a

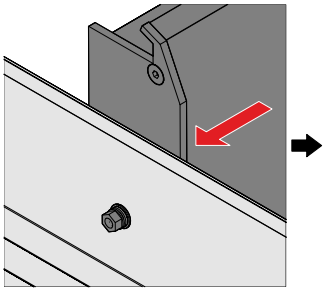


- Press the bushings into the provided openings on both sides in the beams.

1b

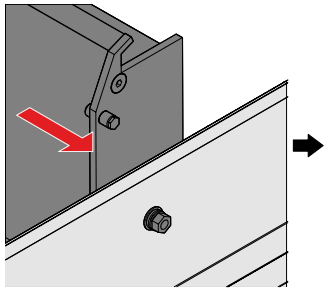


2a

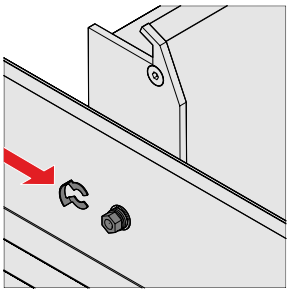


- Insert both sides of the slat into the provided opening.

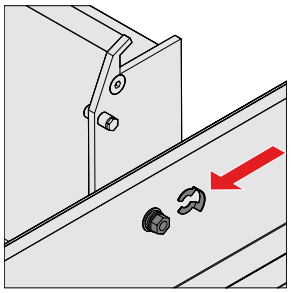
2b



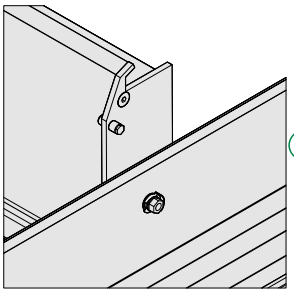
3a



3b



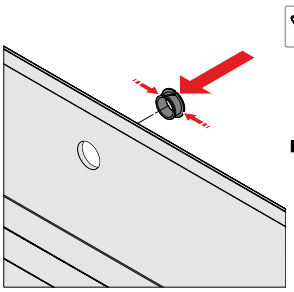
4



- Lock the pins of the slat on both sides.

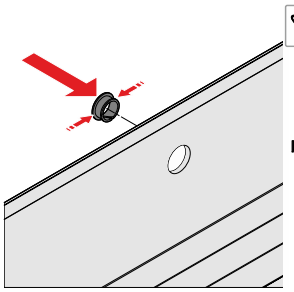
Installing the LED slat

1a

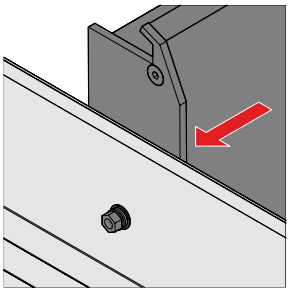


- Press the bushings into the provided openings on both sides in the beams.

1b

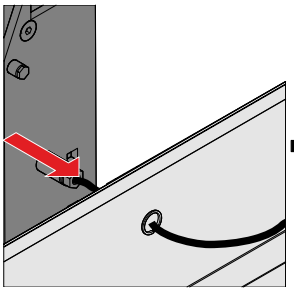


2



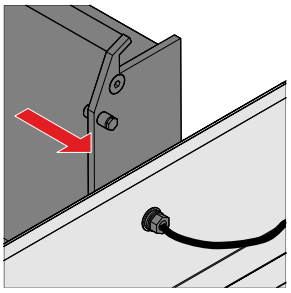
- Insert the slat into the bushing on the opposite side.

3



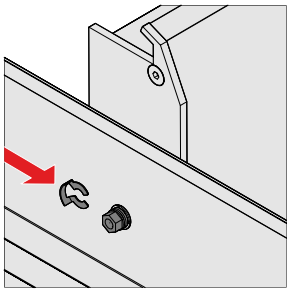
- Insert the cable through the opening of the bushing.

4



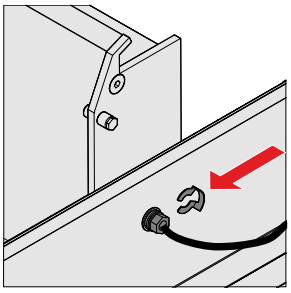
- Insert the slat into the provided opening.

5a

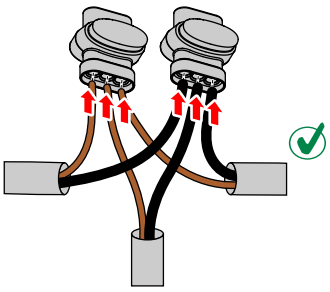


- Lock the pins of the slat on both sides.

5b

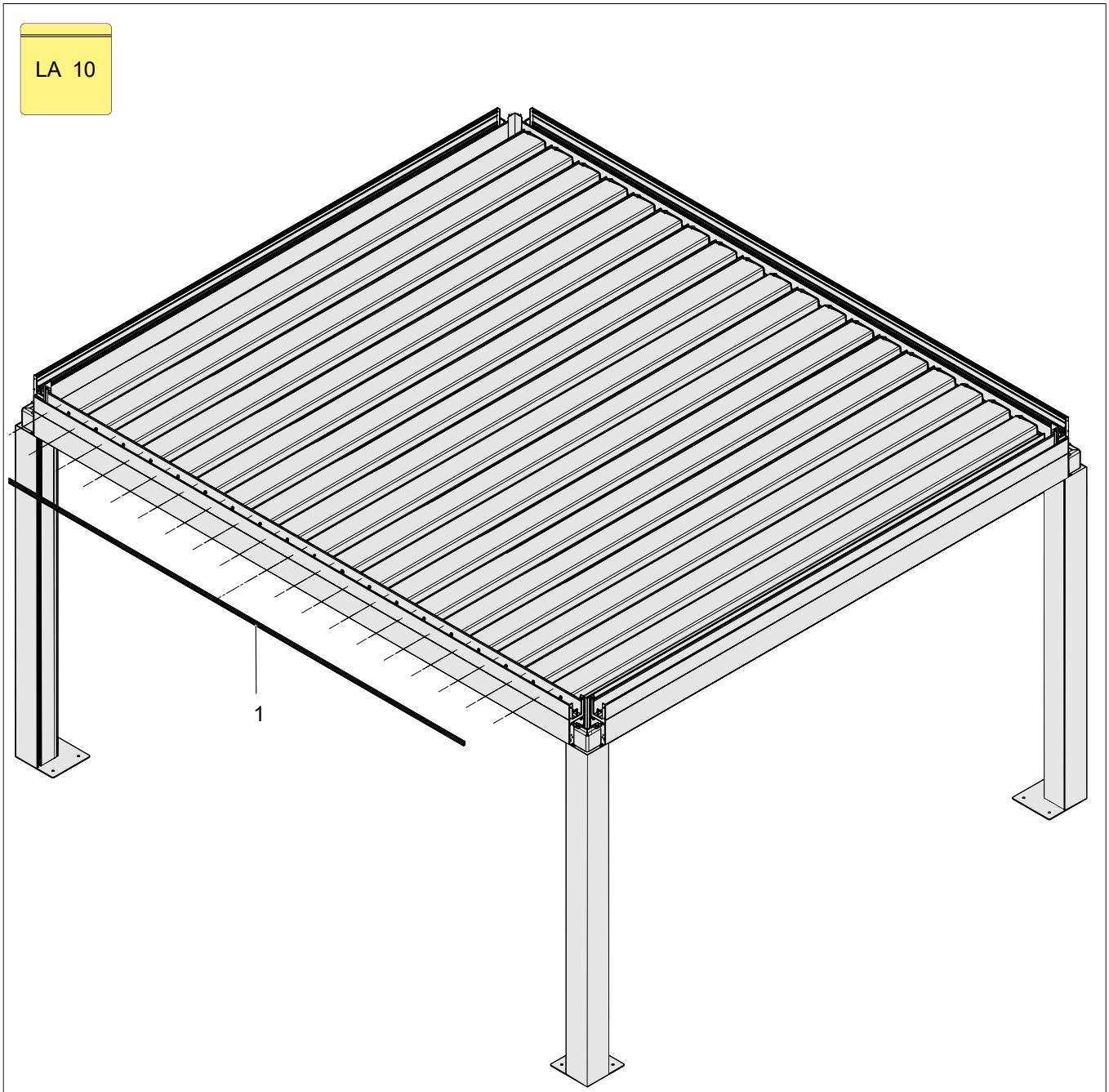


6



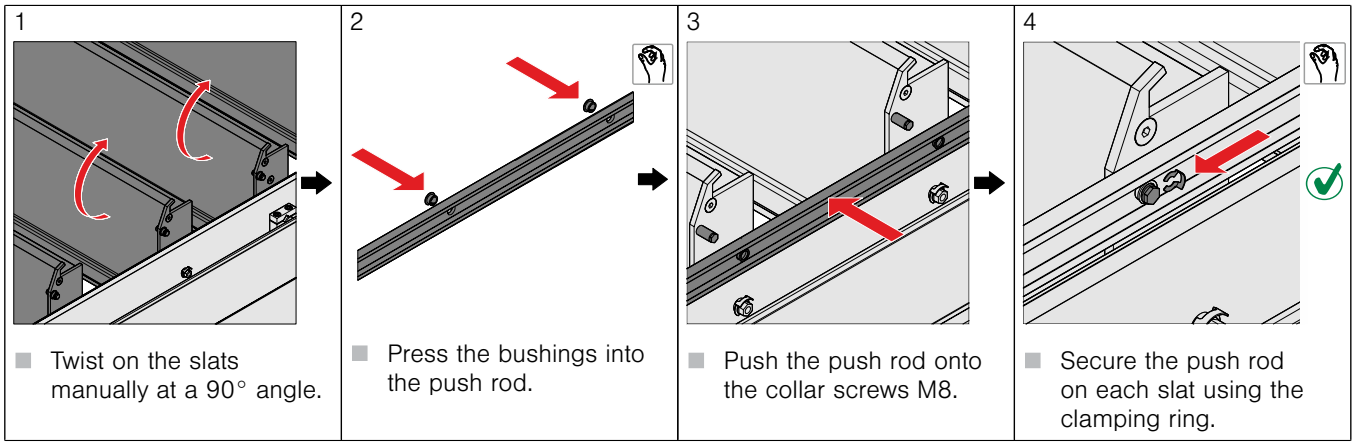
- Connect the LED lines, if present, with the quick connectors and route to the connection box.
- Disconnect the ring line in the beam in the area of the LED line.
- In each case, connect 3 wires of the same colour in 1 quick connector.
- Squeeze the quick connector using water pump pliers.

6.14 Installing the push rod



1	Push rod

Fig. 33: Installing the push rod



- Twist on the slats manually at a 90° angle.
- Press the bushings into the push rod.
- Push the push rod onto the collar screws M8.
- Secure the push rod on each slat using the clamping ring.

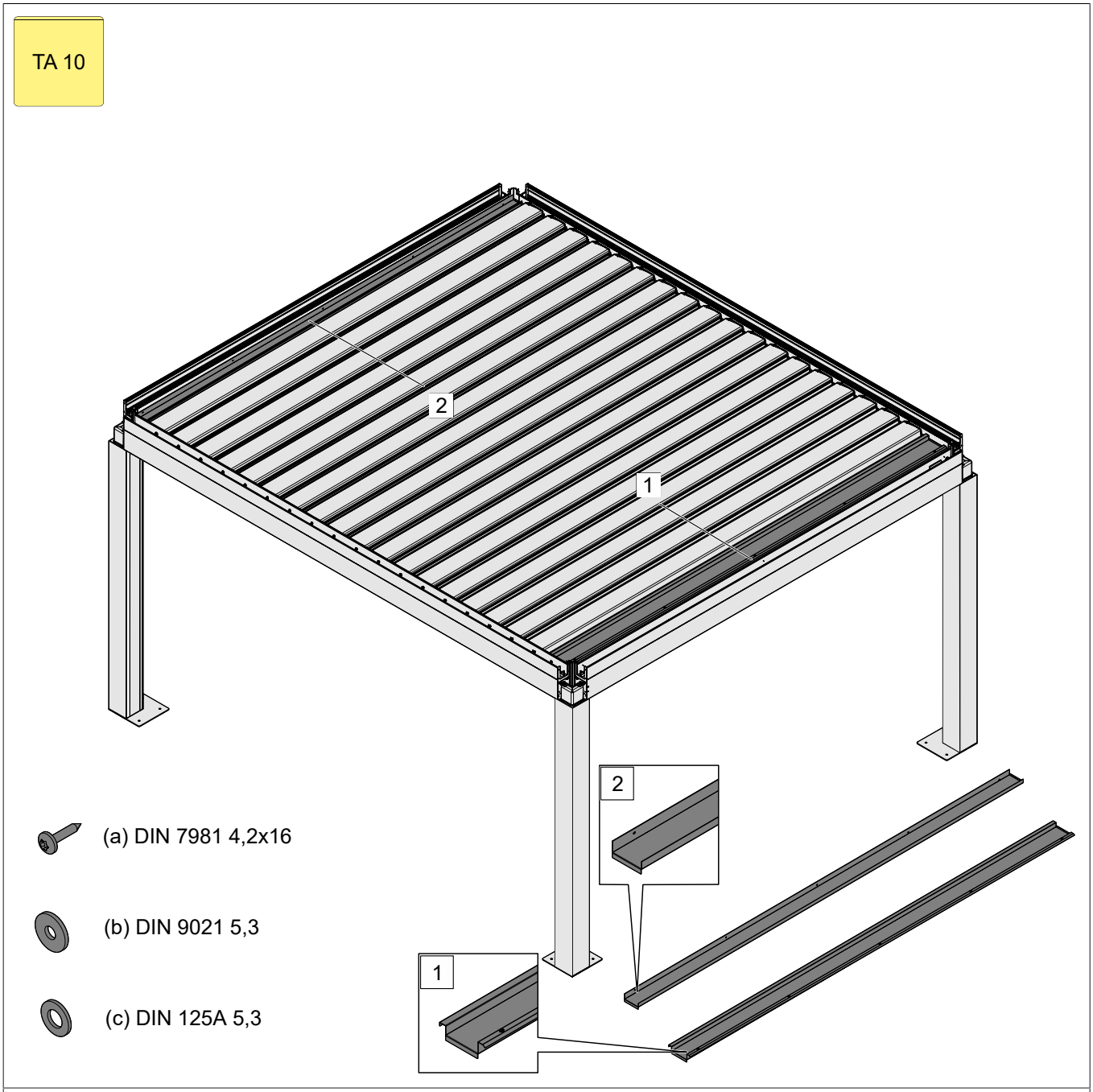
6.15 Setting the motor limit positions

INFO
Teach the motor limit position of the slat roof using the WAREMA Smart programming cable.

INFO

- Note the "Setting instructions and wiring diagram" and the "Motor instructions" included with the drive.
- When using a control: follow the separate instructions.

6.16 Installing the partition compensation plates/programming the RGB hand-held transmitter



1	Partition compensation plate for the connection box side	b	Washer DIN 9021 5.3
2	Partition compensation plate for the opposite side	c	Washer DIN 125A 5.3
a	Pan-head drilling screw DIN 7981 4.2x16		

Fig. 34: Installing the partition compensation plate

INFO
The weather station and the RGB hand-held transmitter must be programmed before the connection box is closed.

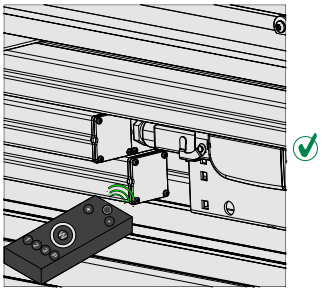
INFO
All electrical components of the product must be connected.

Programming the RGB strip for the hand-held transmitter (optional)

INFO
Teach the hand-held transmitter for the product (see the accompanying installation and operating instructions for the hand-held transmitter).

The hand-held transmitter must be no farther than 50 mm away from the dimmer.

1



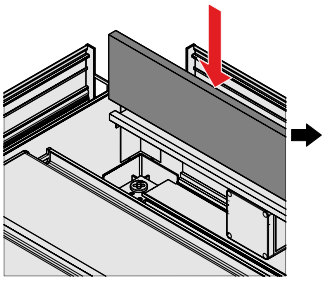
- To teach the RGB strips, hold the hand-held transmitter a maximum distance of 50 mm away from the dimmer.

Installing the partition compensation plate on the connection box side

INFO
The following procedure describes the installation sequence of the connection box in field A variant of the partition compensation plate.

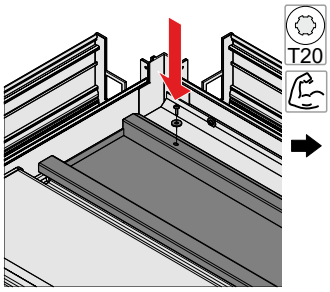
In the connection box in field C variant, the partition compensation plate is optional.

1



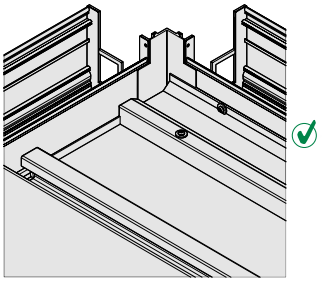
- Insert the inspection cover of the connection box and fasten it using screws 4.2 x 16 (a) and washers 5.3 (b).

2

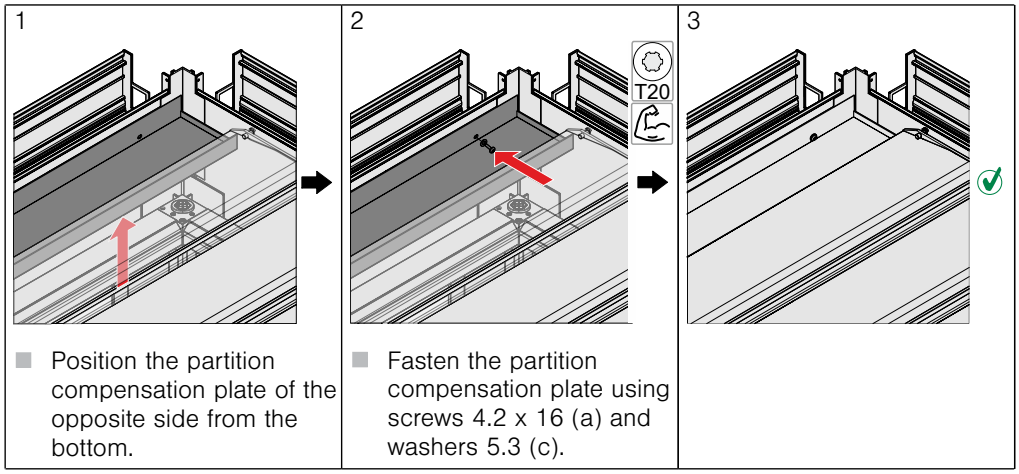


- Fasten the partition compensation plate for the connection box using screws 4.2 x 16 (a) and washers 5.3 (b).

3

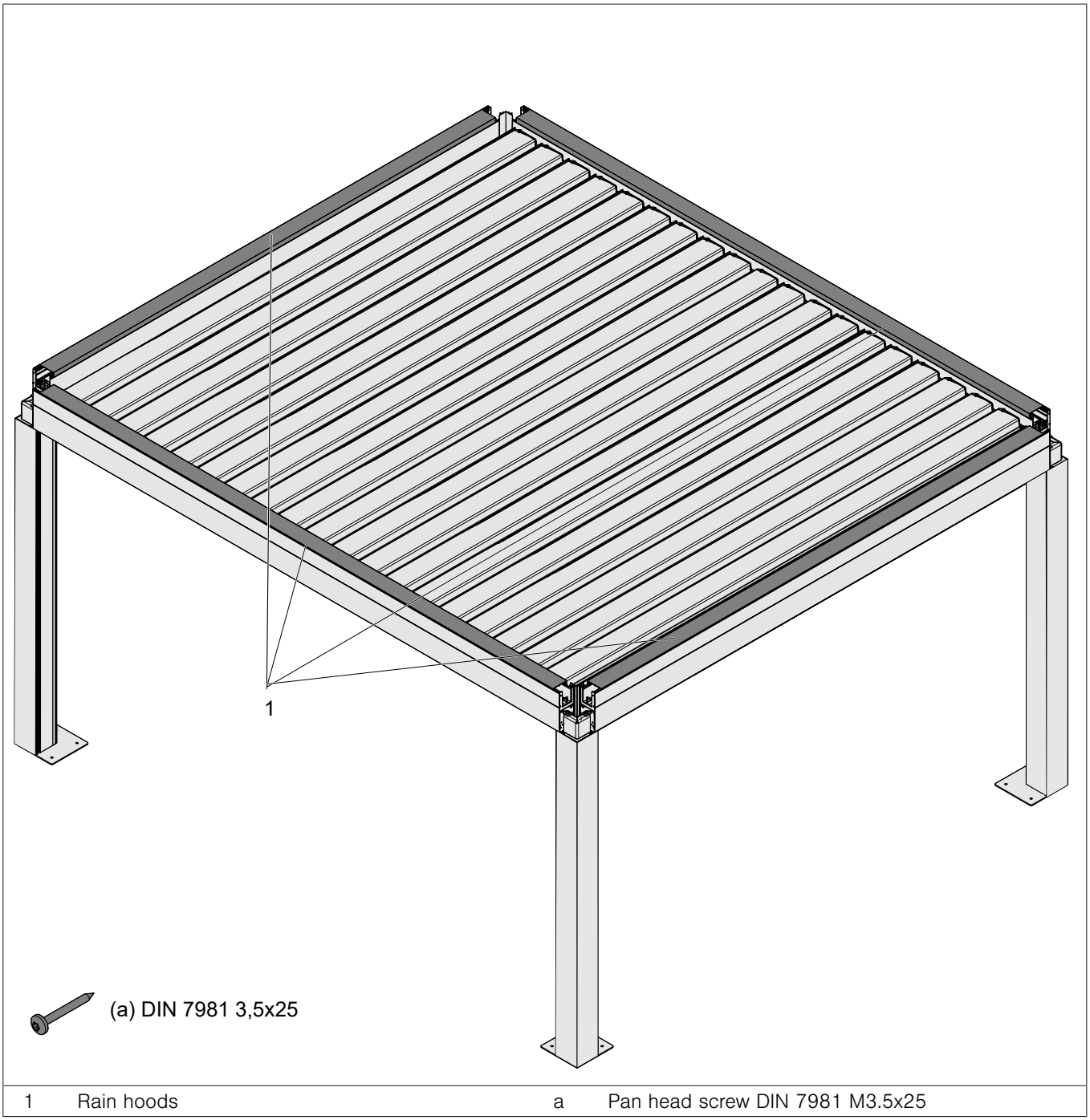


Installing the partition compensation plate of the opposite side



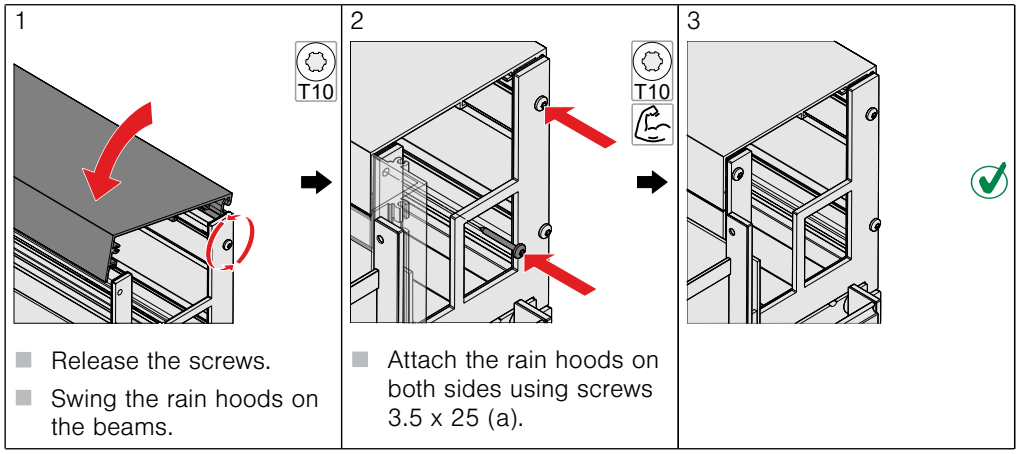
- Position the partition compensation plate of the opposite side from the bottom.
- Fasten the partition compensation plate using screws 4.2 x 16 (a) and washers 5.3 (c).

6.17 Installing the rain hood



1	Rain hoods	a	Pan head screw DIN 7981 M3.5x25

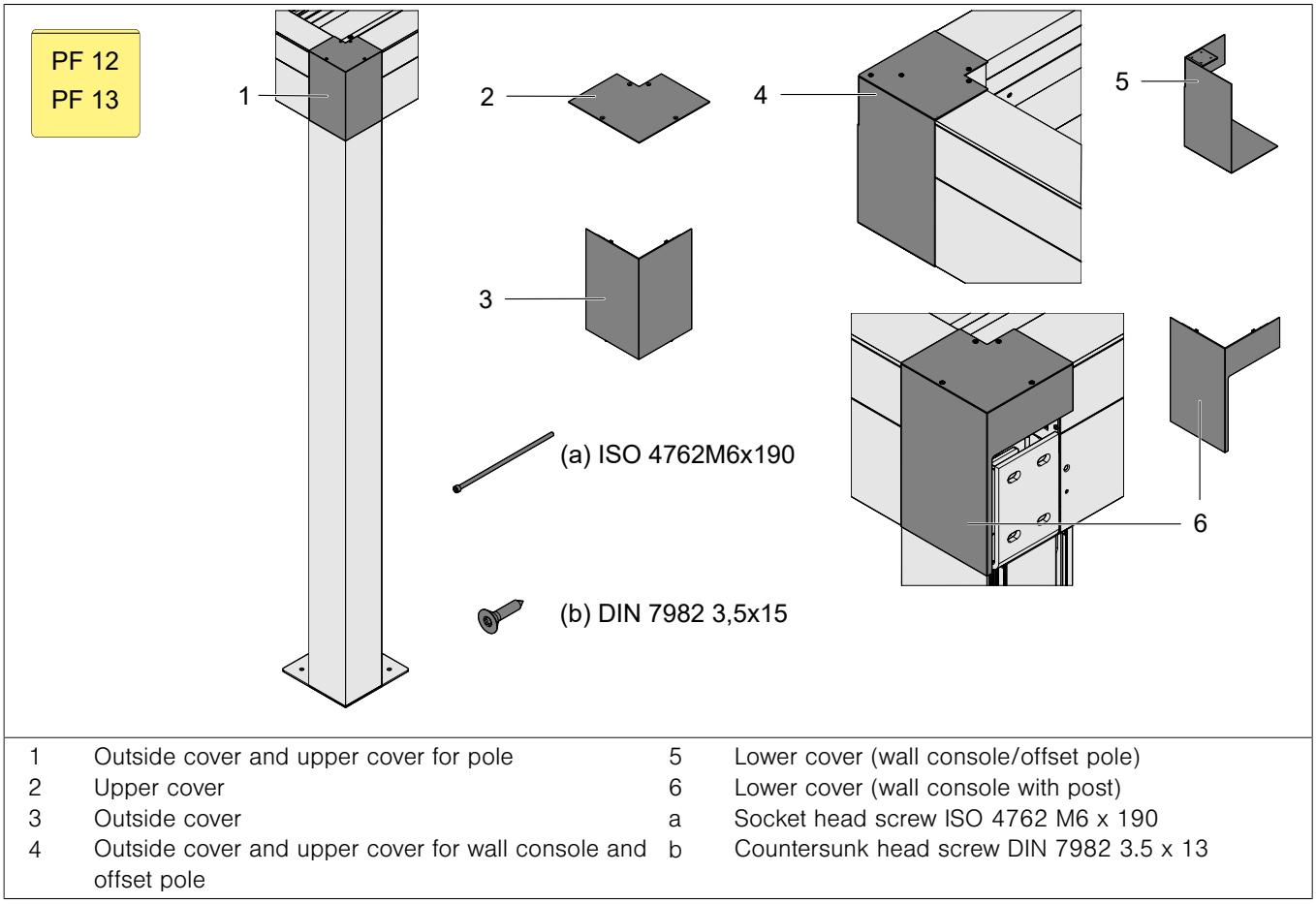
Fig. 35: Installing the rain hoods



- Release the screws.
- Swing the rain hoods on the beams.

- Attach the rain hoods on both sides using screws 3.5 x 25 (a).

6.18 Installing the outside covers and upper cover



1	Outside cover and upper cover for pole	5	Lower cover (wall console/offset pole)
2	Upper cover	6	Lower cover (wall console with post)
3	Outside cover	a	Socket head screw ISO 4762 M6 x 190
4	Outside cover and upper cover for wall console and offset pole	b	Countersunk head screw DIN 7982 3.5 x 13

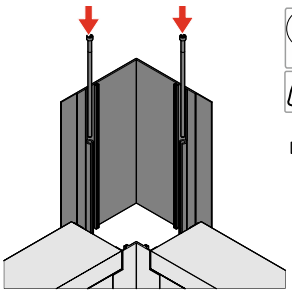
Fig. 36: Installing the outside cover and upper cover

INFO
The bonding/contact surfaces to which sealant is applied must first be treated with cleaning agent and primer.

INFO
Remove the adhesive tape within 24 hours to avoid leaving adhesive remnants on the product.

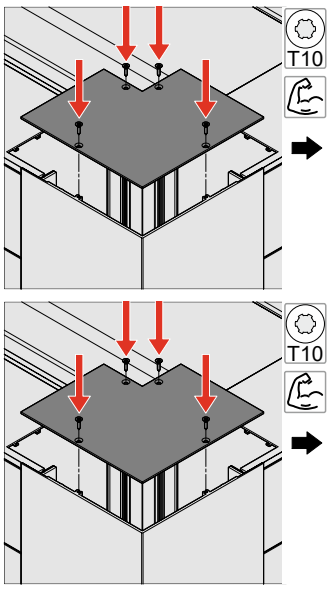
Installing the outside cover and upper cover (pole)

1



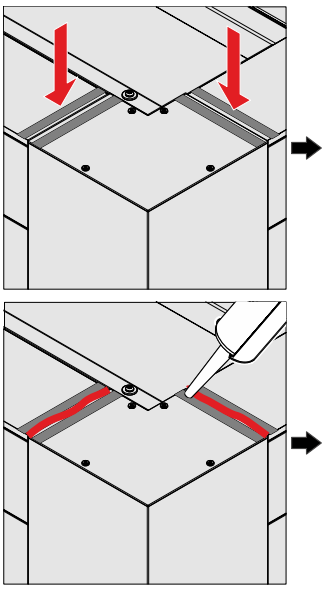
- Screw the covers (3) (outside) on all poles from the top downward using the screws M6 x 190 (a).

2



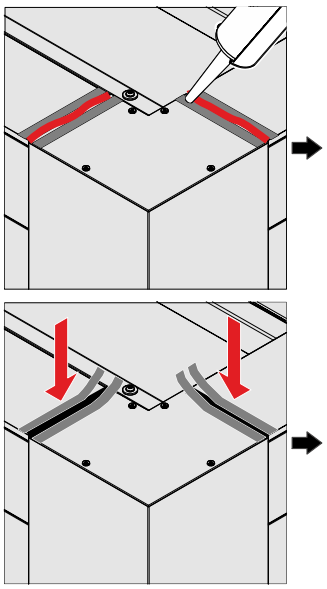
- Place the upper covers (2) on the corners and screw each in place using 4 screws 3.5 x 19 (b).
- Place the upper covers (2) on the corners and screw each in place using 4 screws 3.5 x 19 (b).

3



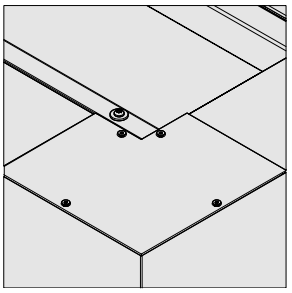
- Apply adhesive tape a distance of 10 mm between the cover edge on the rain hood and on the cover.
- Apply the sealant to the edge of the cover and smooth it out.

4



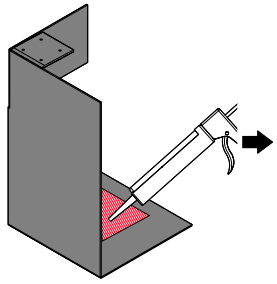
- Apply the sealant to the edge of the cover and smooth it out.
- Pull off the adhesive tape.

5



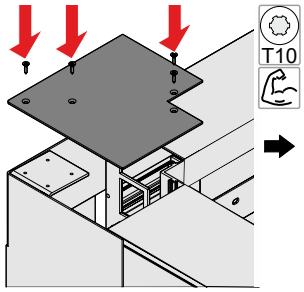
Installing the outside cover and upper cover (wall console)

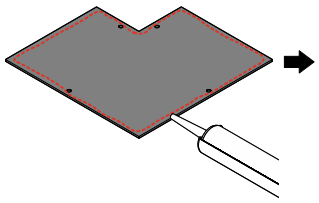
1



- Apply sealant on the inside of the outside cover over an area the size of the wall console.

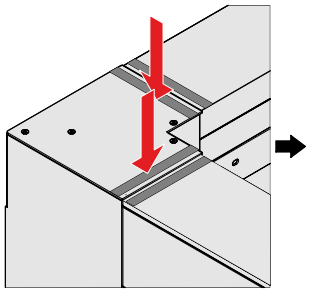
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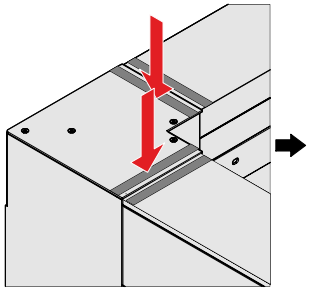




- Place the upper covers (5) on the corners and screw each in place using 4 screws 3.5 x 19 (b).
- Apply sealant around the edge of the top cover.

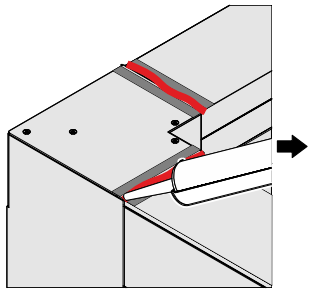
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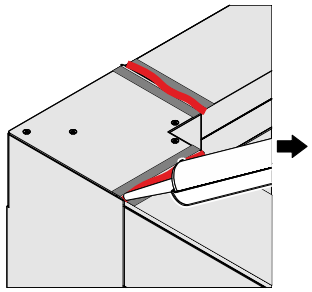




- Apply adhesive tape a distance of 10 mm between the cover edge on the rain hood and on the cover.
- Apply adhesive tape a distance of 10 mm between the cover edge on the rain hood and on the cover.

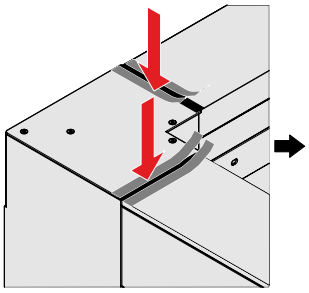
4





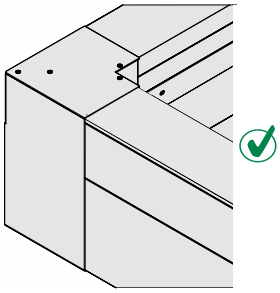
- Apply the sealant to the edge of the cover and smooth it out.
- Apply the sealant to the edge of the cover.

5



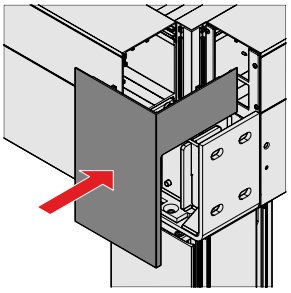
- Pull off the adhesive tape.

6



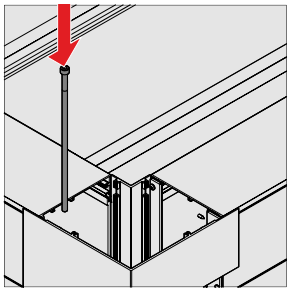
Installing the outside cover and upper cover (wall console with post)

1



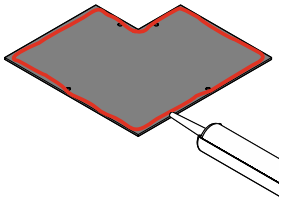
- Slide the outside cover laterally onto the wall console holder.

2



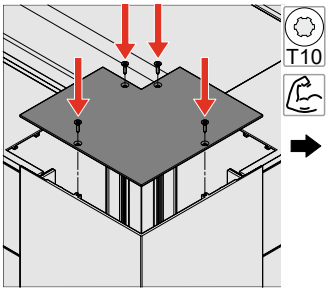
- Screw the covers (6) from the top to the bottom using screws M6 x 190 (a).

3



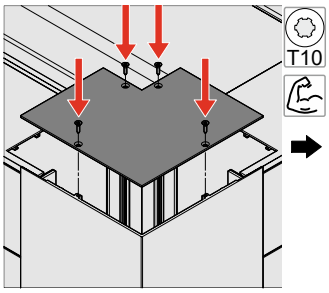
- Apply sealant around the edge of the top covers (width of sealant bead at least 3 mm).

4



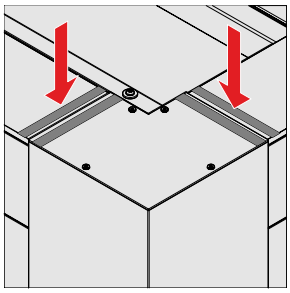
- Place the upper covers (2) on the corners and screw each in place using 4 screws 3.5 x 19 (b).

5



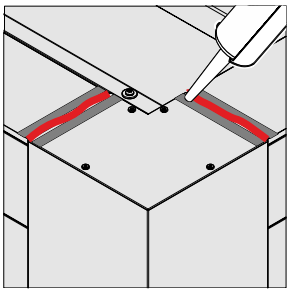
- Place the upper covers (2) on the corners and screw each in place using 4 screws 3.5 x 19 (b).

6



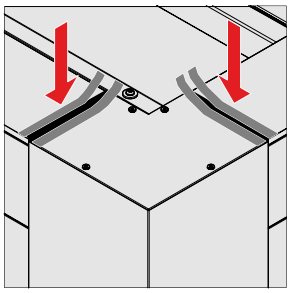
- Apply adhesive tape a distance of 10 mm between the cover edge on the rain hood and on the cover.

7



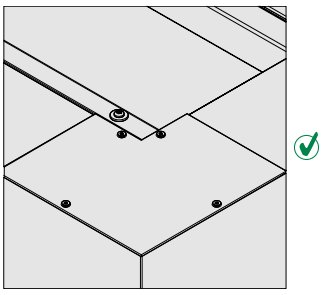
- Apply the sealant to the edge of the cover and smooth it out.

8



- Pull off the adhesive tape.

9



6.19 Performing a functional check

WARNING
Risk of crushing from failure to exercise care during operation.

Persons who are located within the projection area may be injured.

- Keep the path of the product clear of people.
- Keep children away from the operating elements.

Functional check procedure

INFO
To be able to perform a functional check, a **PRCD-S personal protection line** must be connected to the electric distribution.

The unit is operated using the **WMS Hand-held transmitter**. The procedure is described in the "Trial run" section of the accompanying instructions for the motor.

- Connect the personal protection line PRCD-S with the line piece of the electric distribution.
- Connect the personal protection line PRCD-S with the power supply.

INFO
of the motors used are not intended for continuous operation.

The integrated thermal protection switches the motor off after approx. 4 minutes. The product will be ready again for use after 10 to 15 minutes.

- When using the product, avoid operating the motor continuously over a lengthy period.

General procedure

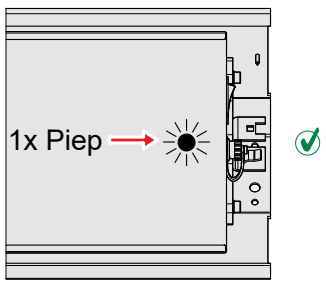
- Extend and retract the product several times. Check the front and rear limit positions of the product. If necessary, adjust the motor limit positions see Chapter 6.26/Page 89.

Switching on the operating voltage on the radiant heater (if present)

INFO
When using a WMS Plug receiver power, the heating status LED does not flash.

- Switch on the operating voltage.
- Ensure that the radiant heater does not begin heating.

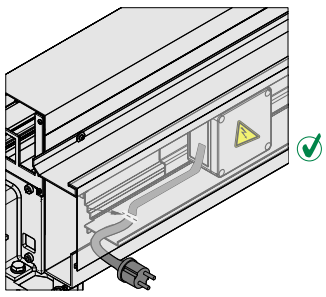
1



With WMS Dimmer 0-10 V

- The radiant heater emits a beep. The radiant heater is in standby mode and the heating status LED flashes.

1



- Cut off the line piece flush at the distributor.

6.20 On-site connection

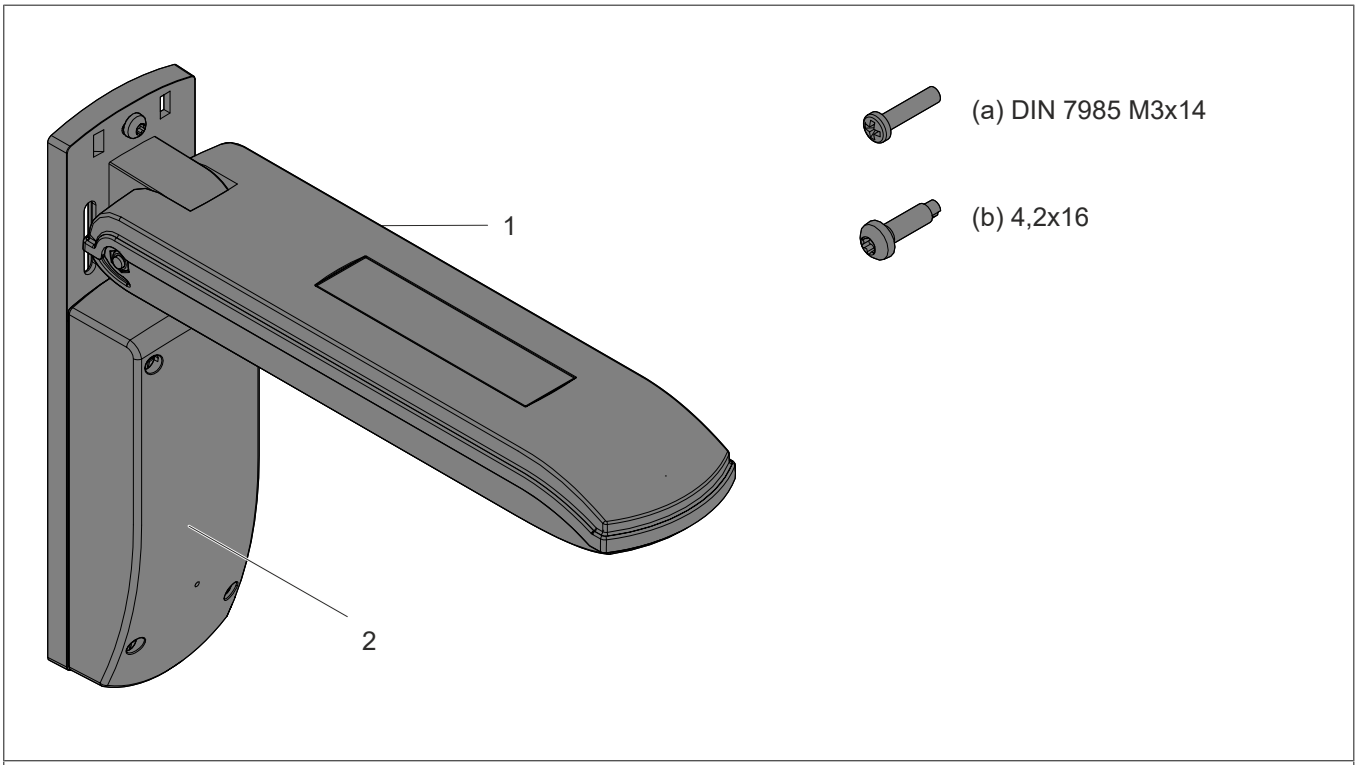
Note the target group for this task (see Page 3).

GEFAHR DURCH STROM
Electric shock!

Electrical work on electrical systems that expand the electrical house installation are only permitted to be performed by an installation company registered in the installers directory of the network operator.

- Contract a registered installation company to perform the on-site connections in adherence with the applicable standards.

6.21 Installing the WMS Weather station plus (optional)



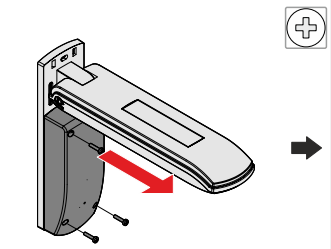
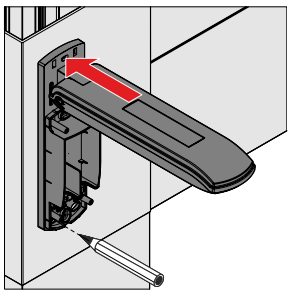
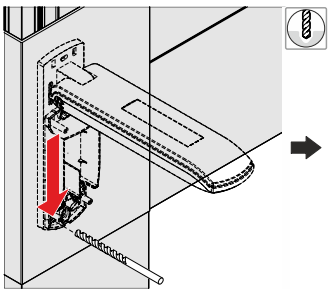
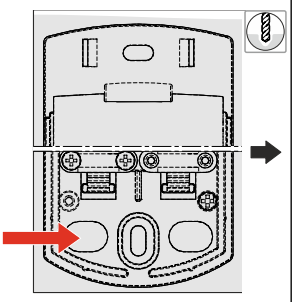
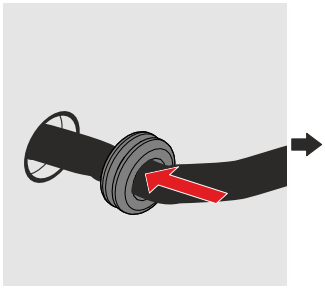
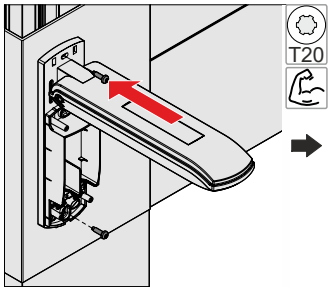
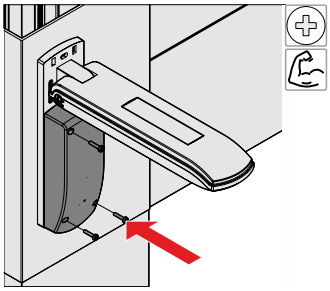
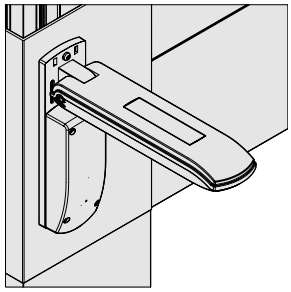
1	Weather station	a	Pan head screw DIN 7985 M3x14
2	Cover	b	Pan-head drilling screw LIKO 4.2x16

Fig. 37: Installing the weather station (optional)

INFO
The WMS Weather station plus must be installed in a location that is exposed to the weather.

Important information on the installation location is contained in the accompanying instructions for the WMS Weather station plus.

INFO
Create the cable conduit with sufficient play to ensure the cable can be routed without tension. Then deburr the drilled edge properly.

1	2	3a	3b
			
■ Unscrew the screws of the cover and remove them.	■ Pencil in the fixing positions and the position of the drilled hole for the line.	■ Drill the cable through-hole using a ∅12-mm drill bit.	
4	**5a**	**6**	**7**
			
■ Push the grommet over the line and press it into the opening.	■ Pass the line (1) through the hole in the mounting plate. ■ Attach the mounting plate to the post using screws 4.2 x 16 (b). ■ Connect the line in the weather station. Note the accompanying instructions for the WMS Weather station plus.	■ Attach the cover to the mounting plate using screws (a).	

INFO
The respective WMS studio pro file (.wmsp file) and a parameter protocol is available in myWAREMA for download approx. 2 – 3 workdays before the goods are delivered. This file, the free WMS studio pro PC software and the WMS flash drive can be used to integrate the unconfigured WMS products (which have not been taught) such as the integrated awnings with easyZIP guidance or WMS Weather station plus in the WMS network and to comfortably adjust the settings.

6.22 Adjusting the WMS Weather station plus (optional)

INFO
If the installation location of the roof system is not at ground level, the WMS Weather station plus with a power supply is **mandatory**. Automatic lowering of the vertical textile shading via the control must be prevented.

Note:
The ice monitoring overrides all other control modes and cannot be overridden manually (safety function). The ice alarm can be reset via WMS WebControl pro without a password (per app and browser). After the end of the safety function, the comfort modes are active again and may trigger a new movement.

	Automatic control *1)					
	ZIP *2)			**Lamaxa** *3)		
	Limit value	**Control mode**	**Position ZIP**	**Limit value**	**Control mode**	**Position of Lamaxa**
Wind	> 13 m/s *4)	On	Retract	> 13 m/s	On	Tilt the slats horizontally (close)
Rain	-	Off	-	Rain	On *6)	Tilt the slats horizontally (close)
Ice *5)	< +4 °C and rain	On	Retract	< +4 °C and rain	On	Tilt the slats horizontally (close)

*1) **Note:**
The comfort functions (such as sun control, time switch) must be deactivated in winter. Deactivation can be performed using the hand-held transmitter WMS WebControl pro, app or browser.
Safety functions (wind, rain, ice) must be set as described in the table.
The customer is fully responsible for adhering to the operating conditions specified by WAREMA.

*2) ZIP = Vertical textile shading (optional)

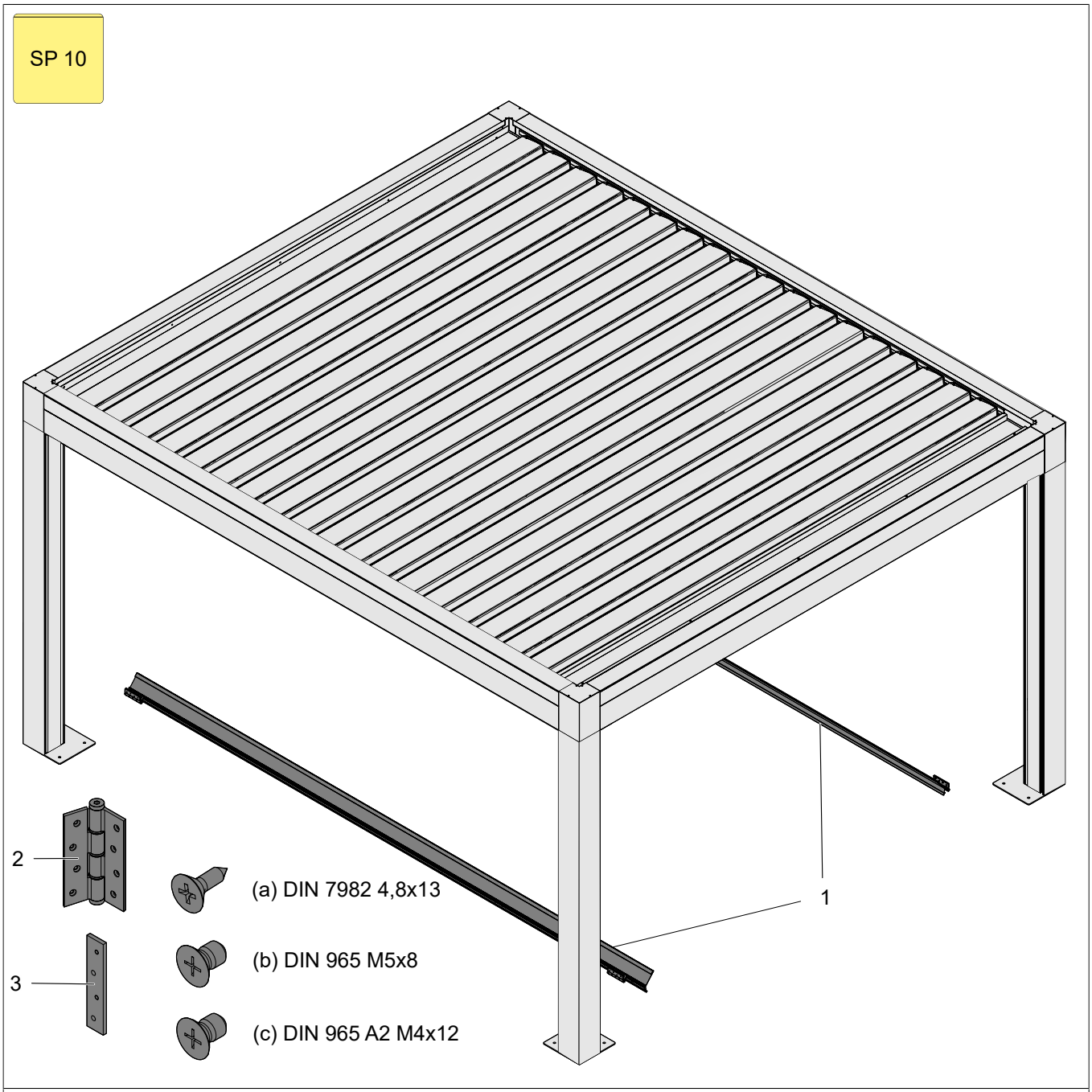
*3) Lamaxa = slat roof or fabric roof

*4) The wind speed limit to be set for the control/weather station must be taken from the wind resistance chapter
The installation location of the wind sensor has an influence on the triggering behaviour of the control/weather station.

*5) **Note:**
The ice monitoring overrides all other control modes and cannot be overridden manually.
To prevent freezing of the slats, the slats can be opened slightly in the cold winter months. The adjustment must be made by the qualified specialist.
If the size-dependent snow load is exceeded, the slat roof must be cleared of snow.
In areas with heavy snowfalls, the slat can be positioned vertically (90°) so that snow does not weigh down the construction of the slat roof. The adjustment must be made by the qualified specialist.

*6) In the winter months (November - April), the control function must be set to **off**.

6.23 Installing the protection profile



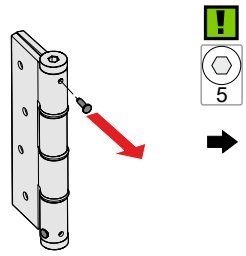
1	Protection profile	a	Tapping screw DIN 7982 4.8x13
2	Hinge	b	Countersunk head screw DIN 965 M5x8
3	Spacer	c	Countersunk head screw DIN 965 A2 M4x12

Fig. 38: Installing the protection profile

NOTICE
The hinge arms are under tension when delivered.

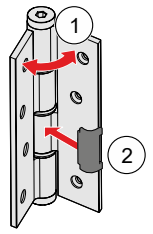
INFO
Because it is hooked in place, the protection profile can be aligned manually. The drilled holes in the hinge and protection profile must lie one on top of the other.

1



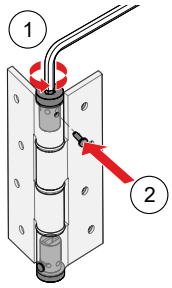
- Take the hinge out of the packaging and release the black pin with a size 5 hex key.
- Remove the pin from the hinge by moving the tool back and forth.

2



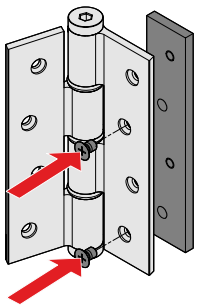
- Fold open the hinge leaves and position the mounting aid into the opening in the hinge provided for this purpose. The mounting aid is used to ensure that the hinge leaves do not fold together, and the integrated spring can be put under tension.

3



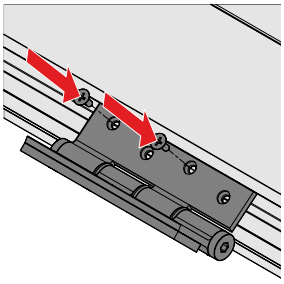
- Turn the hinge flange anticlockwise using a hex key.
- Insert the pin into the fourth stacked hole and remove the hex key.

4



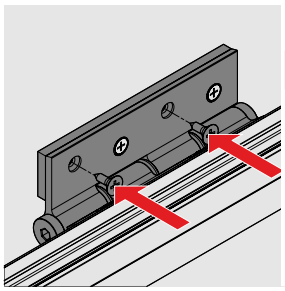
- Attach the spacer to the hinge leaf using 2 screws M5 x 8 (b).

5



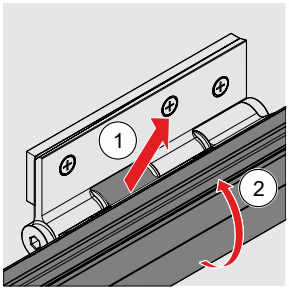
- Hook the protection profile into the hinge leaves.
- Attach the hinge leaves to the protection profile using 2 screws 4.8 x 13 (a).

6



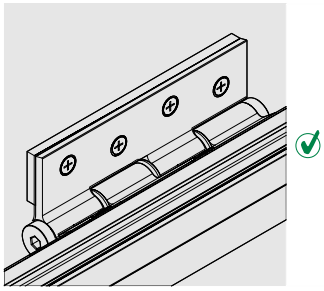
- Fasten the hinge assemblies on the beam at the drilled holes provided for this purpose using 2 screws M4 x 12 (c) each.

7

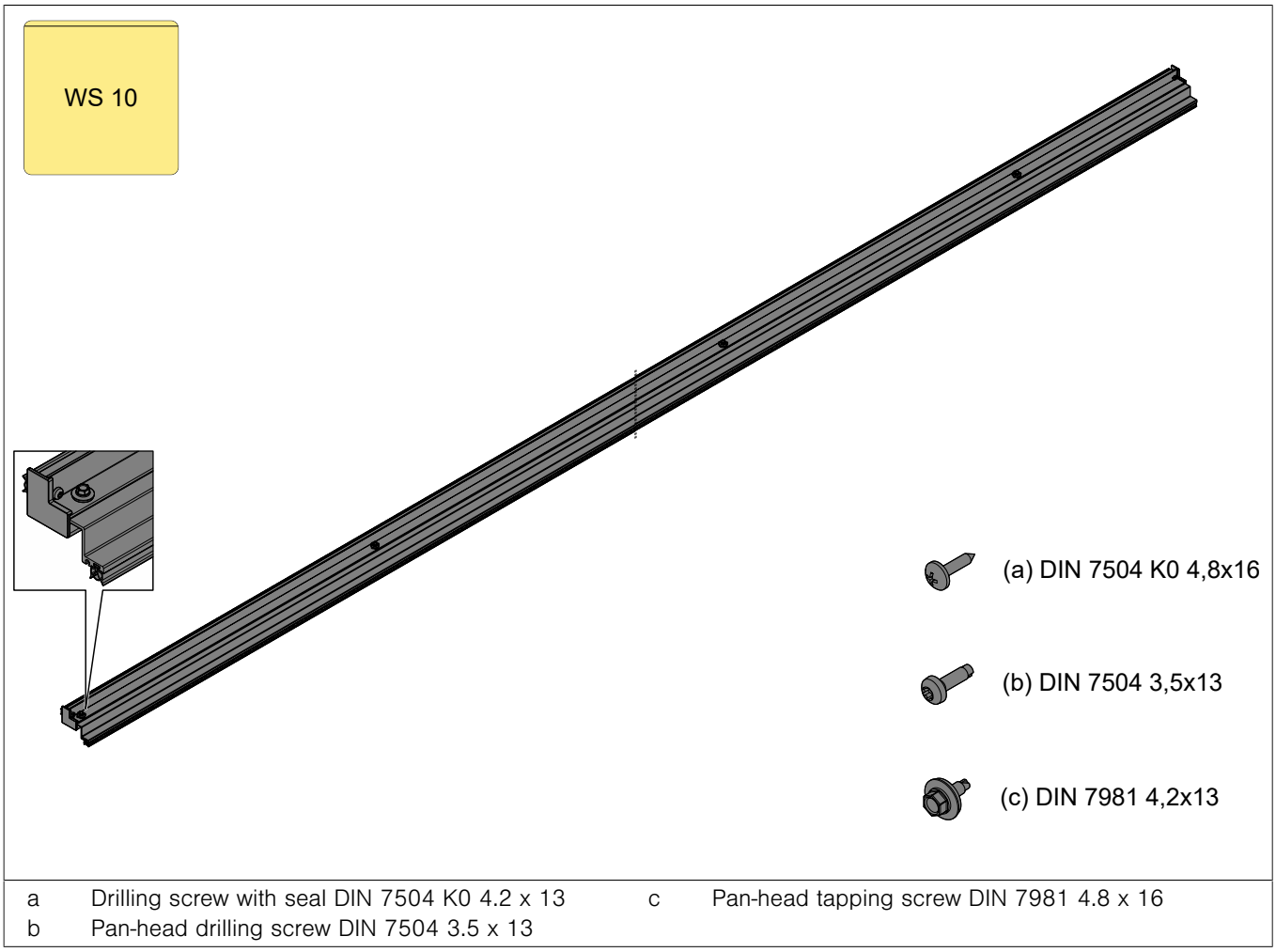


- Remove the mounting aid (1) from the hinge after installing the slats and fold up the protection profile (2) manually.

8



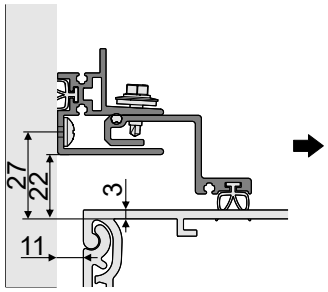
6.24 Installing the fixing profile of the wall connection system on the wall via the beam (optionally)



a	Drilling screw with seal DIN 7504 K0 4.2 x 13	c	Pan-head tapping screw DIN 7981 4.8 x 16
b	Pan-head drilling screw DIN 7504 3.5 x 13		

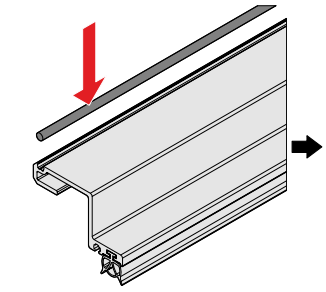
Fig. 39: Installing the wall connection profile (all dimensions in mm)

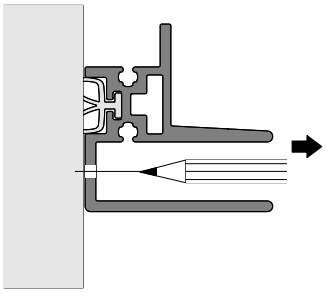
1



- Transfer the height onto the mounting substructure.
- Centre the fixing profile lengthwise on the beam.

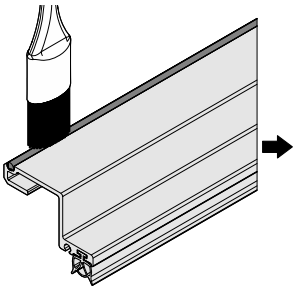
2

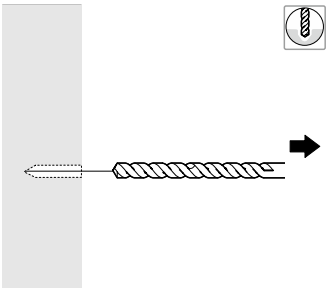




- Press the bead into the groove.
- Transfer the fixing template.

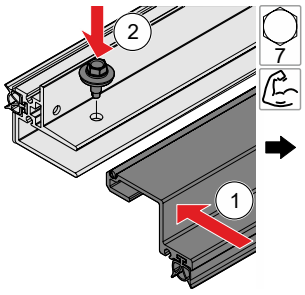
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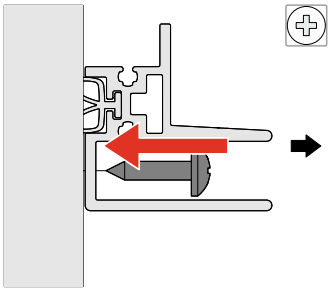




- To improve the sliding qualities of the bead, wet it with a grease-based lubricant.
- Drill the fixing holes.

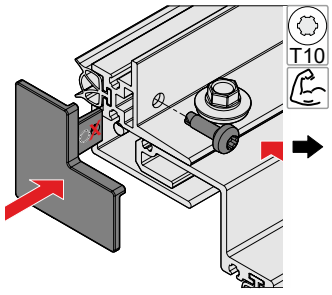
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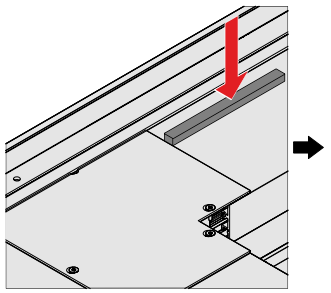




- Slide the hood profile all the way into the fixing profile and fasten it using screws 4.2 x 13 (c).
- Attach the fixing profile to the mounting substructure using suitable screws.

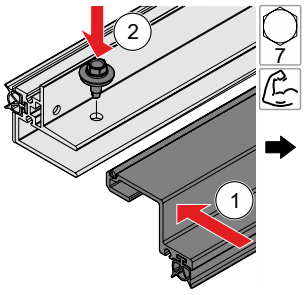
5





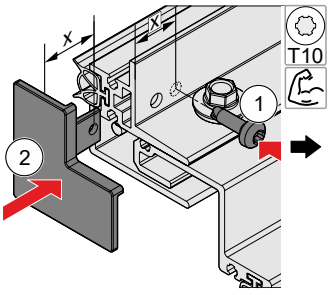
- The existing drilled hole is not used to secure the side cover.
- Push the cover in all the way and fasten it with drilling screw 3.5 x 13 .
- Glue the foam sealing strip in place in the rear area on the rain hood (approx. 30 mm from the rear edge).

6



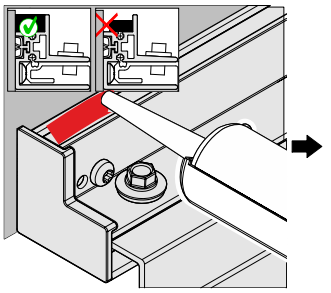
- Slide the hood profile all the way into the fixing profile and fasten it using screws 4.2 x 13 (c).

7



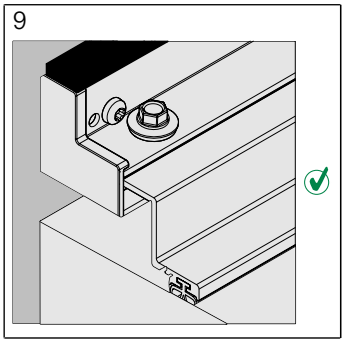
- Transfer dimension "x" of the side covers (2) onto the profile, then slide it into the fixing profile and fasten using screws 3.5 x 13 (b).

8



- Fill the joint at the wall with joint sealant along the entire surface.

9



6.25 Finishing the installation

General information

- Hand the documentation over to the operator.
- Instruct the operator on how to use this product.
- Complete and issue the handover report.

6.26 Troubleshooting

Incorrect motor limit positions

Cause	Remedy
The motor has not been learned in or has not been operated three times	■ Learn in the motor (see separate instructions for the motor).

Limit position value not reached

Cause	Remedy
The drive is at the limit position, but the display indicates a deviating value of 100%. This may happen if the limit position setting of the motor is too tight.	■ Readjust the motor limit positions.

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