

Mounting instructions

GAD Design device installation trunking

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1 About these instructions

1.1 Target group



These instructions are intended for the following target groups:

- Trained electrical specialists charged with mounting the GAD Design device installation trunking
- Electrical planners and engineers charged with the planning of cable routing systems

Electrical work may only be carried out by specialist personnel with electrical training.

1.2 Relevance of these instructions

These instructions are based on the standards valid at the time of compilation (April 2023).

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

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

These instructions are intended as assistance in the mounting, maintenance and overhauling of cable routing systems and make no claims as to completeness.

In these instructions, cables and lines are referred to simply as cables.

Regional and seasonal factors were not taken into account.

1.3 Types of warning information



Type of risk!

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

Note!

Indicates important information or assistance.

1.4 Depiction conventions

Explanation of the depictions used:



Correct design



Incorrect design

1.5 Applicable documents

The declarations of conformity are linked to the products at www.obo.de.

2 Intended use

GAD Design device installation trunking is produced according to the standard and is only used to guide cables. Electrical installation devices (e.g. sockets, data technology supports or multimedia connections) with a nominal voltage of up to 400 V can be installed in the GAD Design device installation trunking. The trunking is only approved for use in dry indoor areas.

3 Safety

3.1 General safety information

Observe the following general safety information:

- Contact with electrical current can lead to an electric shock.
- Risk of cutting from plate edges.
- Electrical work may only be carried out by specialist personnel with electrical training.
- Cable routing systems may not be used as supports for people or heavy objects.
- Improper mounting or mounting deviating from the manufacturer's specifications may cause the cable routing system to collapse.
- Depending on the version, the cable routing systems are designed for use at different ambient temperatures.

3.2 Personal protective equipment

List of personal protective equipment to be used:



Use hand protection



Wear safety shoes



Wear eye protection

4 Necessary tools

List of tools to be used:

- Screwdriver
- Saw
- Drill

5 System overview

5.1 System description

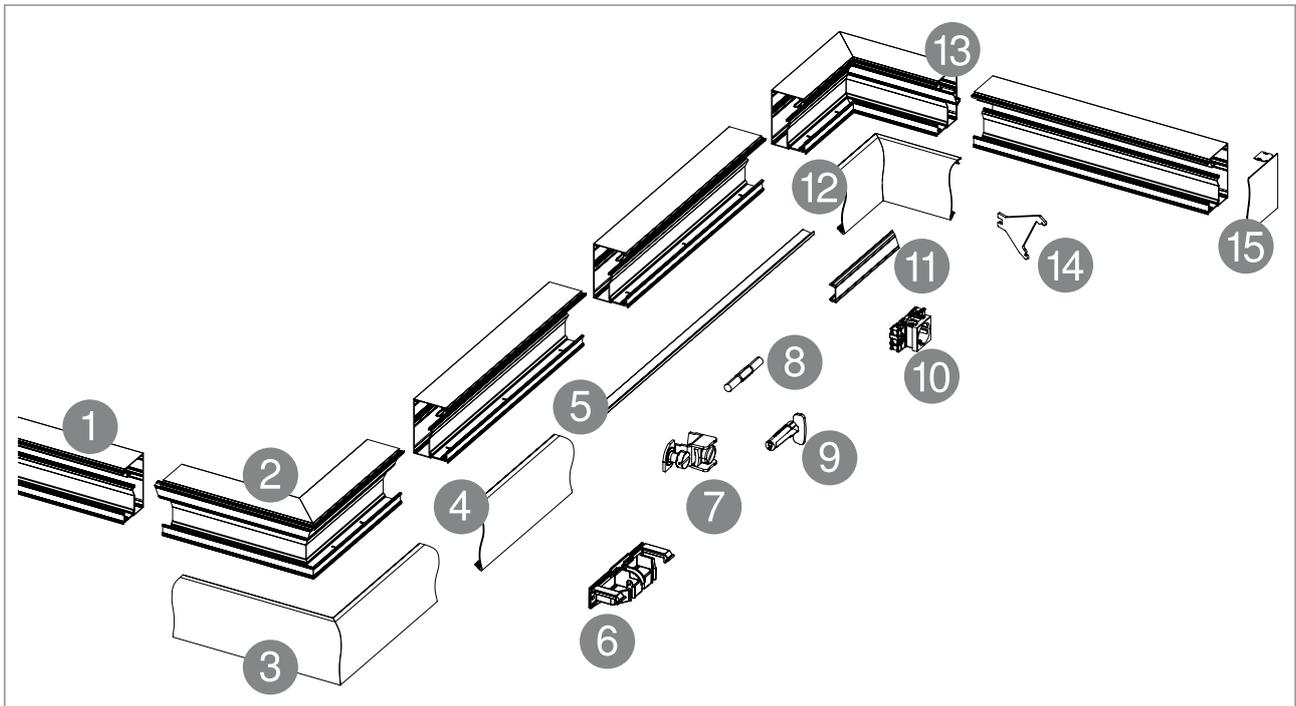
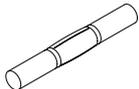
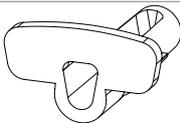
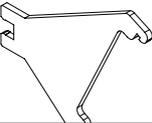


Fig. 1: System description, GAD Design device installation trunking

The following components belong to the GAD Design device installation trunking:

Item no.	Designation	Figure	Function
1	GAD Design device installation trunking		Trunking base for covered cable routing and device installation in internal areas. With construction-side base perforation for direct mounting on the wall.
2	External corner		External corner for direction change of the GAD Design device installation trunking.
3	External corner cover		External corner cover to close external corners. Available in the Soft, Swing and Style design versions.
4	Trunking cover		Trunking cover to close the GAD Design device installation trunking. Available in the Soft, Swing and Style design versions.
5	Partition		Partition for the GAD Design device installation trunking. To install different voltage levels.
6	Cover adapter		Cover adapter for mounting on trunking bases and fittings of the GAD Design device installation trunking. Used to accept the trunking cover and keeps it at a sufficient distance.
7	8AWR protective conductor connection bracket		Protective conductor connection bracket to include the GAD Design device installation trunking in the protective measure. Clamping range: 2 x 1.5–4 mm ²

Mounting the GAD Design device installation trunking

8	Joint connector		Joint connector as notching pin for direct joint-to-joint connection of the trunking bases without joint cover.
9	Spacer		Spacer for use between the trunking covers of the GAD Design device installation trunking. The spacer ensures secure maintenance of a minimum spacing between trunking covers.
10	Socket		Socket for installation in the GAD Design device installation trunking.
11	Cover		Cover to close the 45 mm track in the GAD Design device installation trunking.
12	Internal corner cover		Internal corner cover to close the internal corners. Available in the Soft, Swing and Style design versions.
13	Internal corner		Internal corner for direction change of the GAD Design device installation trunking.
14	Stabiliser plate		Stabiliser plate to stabilise the system opening of the GAD Design device installation trunking. The panel is placed in the trunking base and supports the acceptance of covers and ensures a secure hold of the devices.
15	End piece		End piece for the GAD Design device installation trunking. Available in the Soft, Swing and Style design versions and for closure on the left or right side.

Tab. 1: System description, GAD Design device installation trunking

6 Mounting the GAD Design device installation trunking

6.1 Preparations for mounting

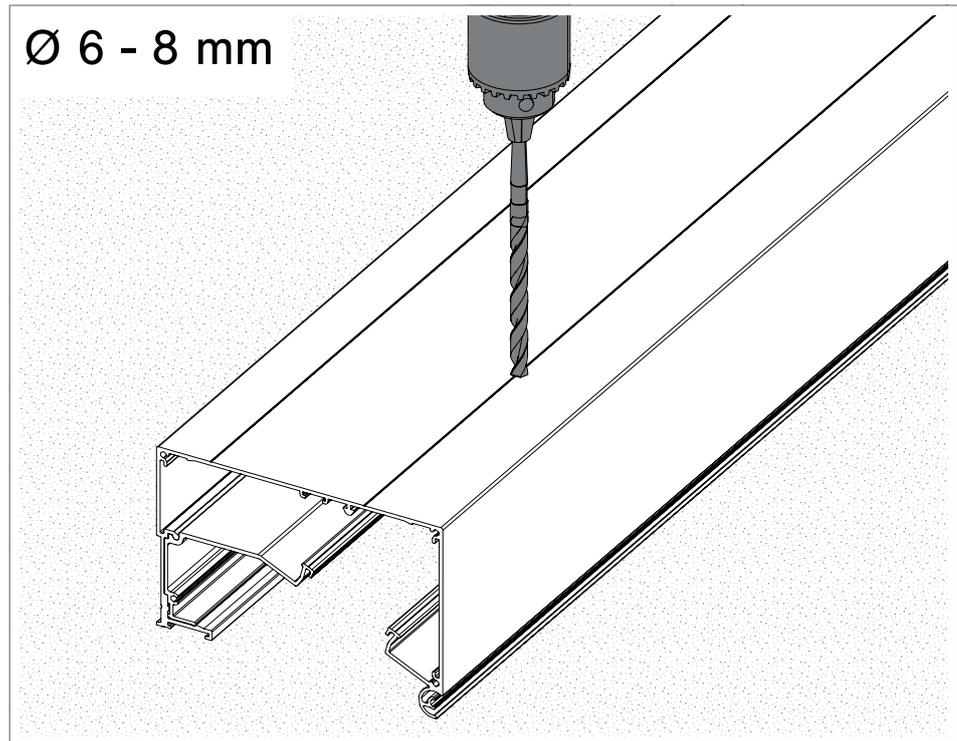


Fig. 2: Pre-drilling the GAD Design device installation trunking

1. Pre-drill the GAD Design device installation trunking ① with a diameter of 6–8 mm.

6.2 Mounting the GAD Design device installation trunking

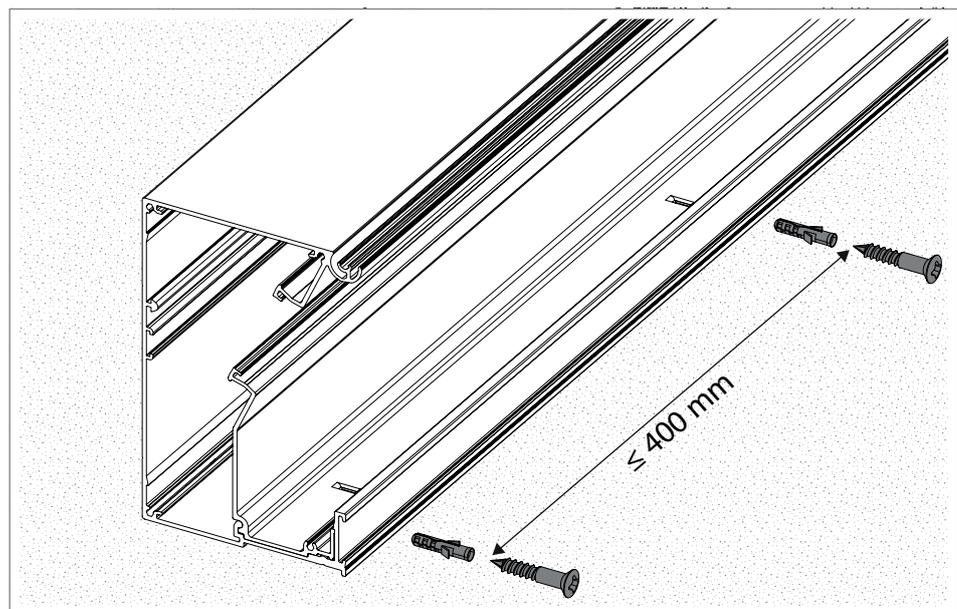


Fig. 3: Fastening the GAD Design device installation trunking

1. Fasten the GAD Design device installation trunking ① to the wall in the slots using suitable fastening material (e.g. screw and anchor).

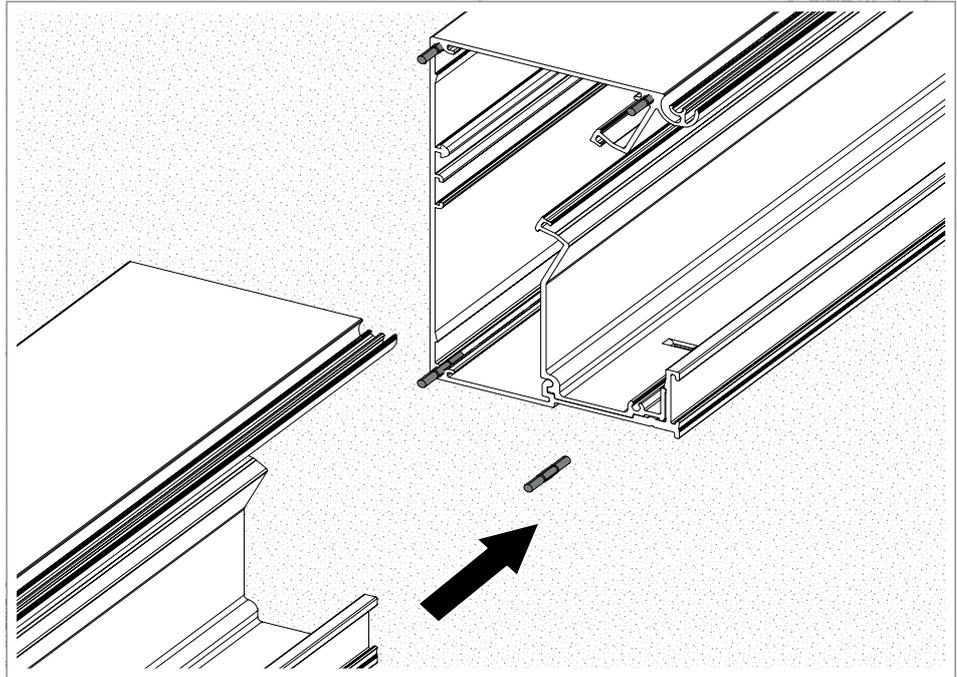


Fig. 4: Mounting joint connectors

Optional! *Mounting of the joint connectors is optional.*

Note! *The joint connector must also be mounted with the fittings.*

2. Align the GAD Design device installation trunking ① with four joint connectors ⑧. In doing so, knock in the joint connector ⑧ until the grooved raised section has disappeared fully into the GAD Design device installation trunking ①.

6.3 Mounting the socket

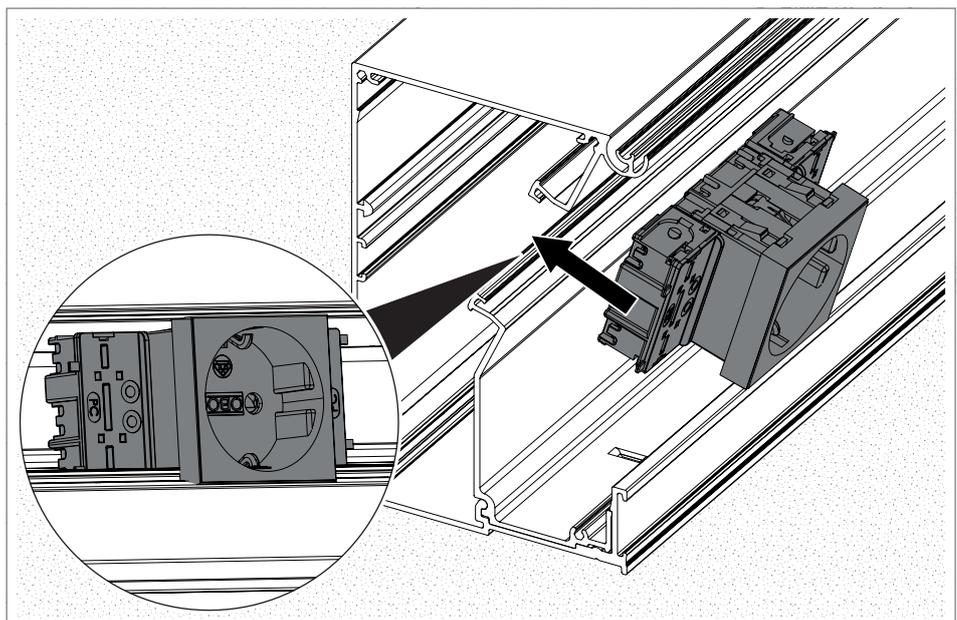


Fig. 5: Mounting the socket



Risk to life through electric shock!

Energised components! Electrical installation work may only be carried out by an electrical engineer.

1. Engage the socket ⑩ in the profile and connect it.

Optional! *The following action step is only required if the distance between the sockets is greater than 500 mm.*

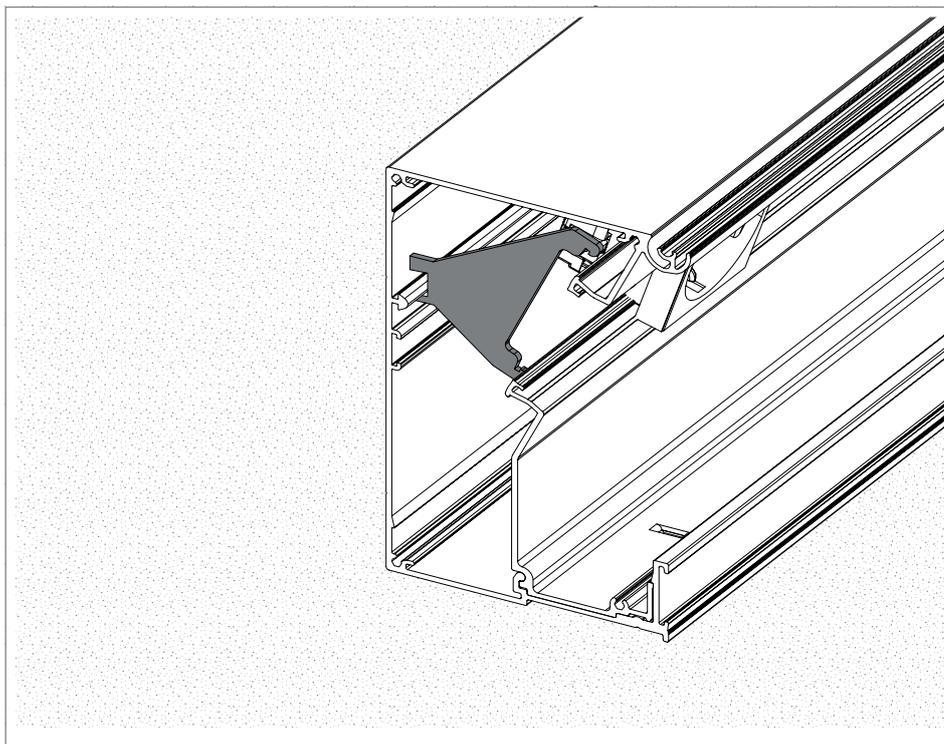


Fig. 6: Mounting the stabiliser plate

2. Mount the stabiliser plate ⑭ between the two sockets ⑩.

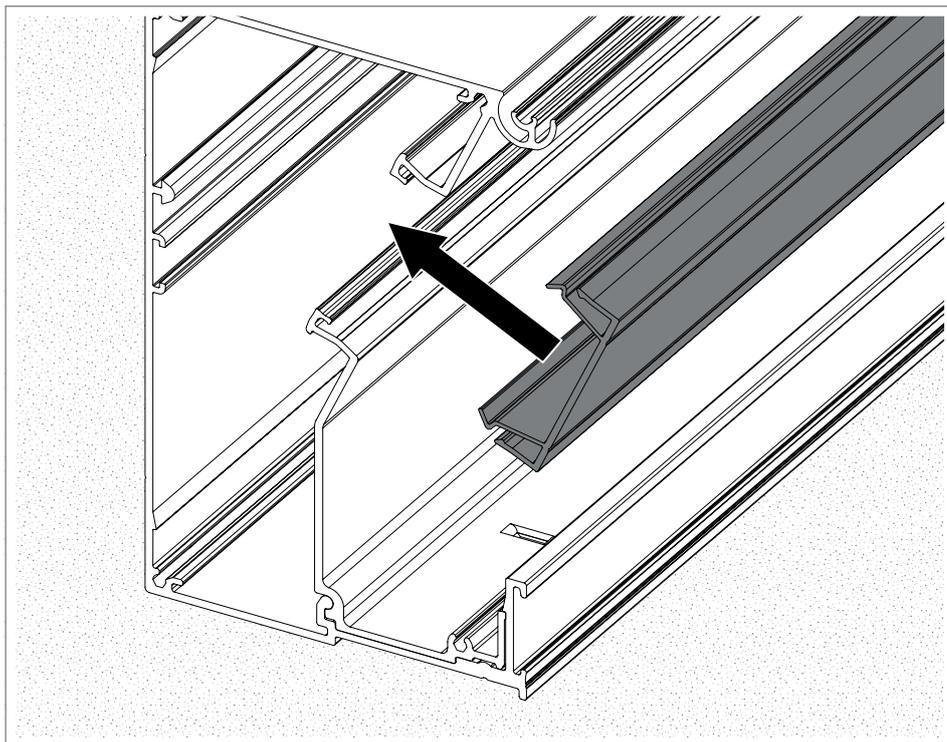


Fig. 7: Mounting the trunking cover

3. Close the GAD Design device installation trunking ❶ with the trunking covers ❷.

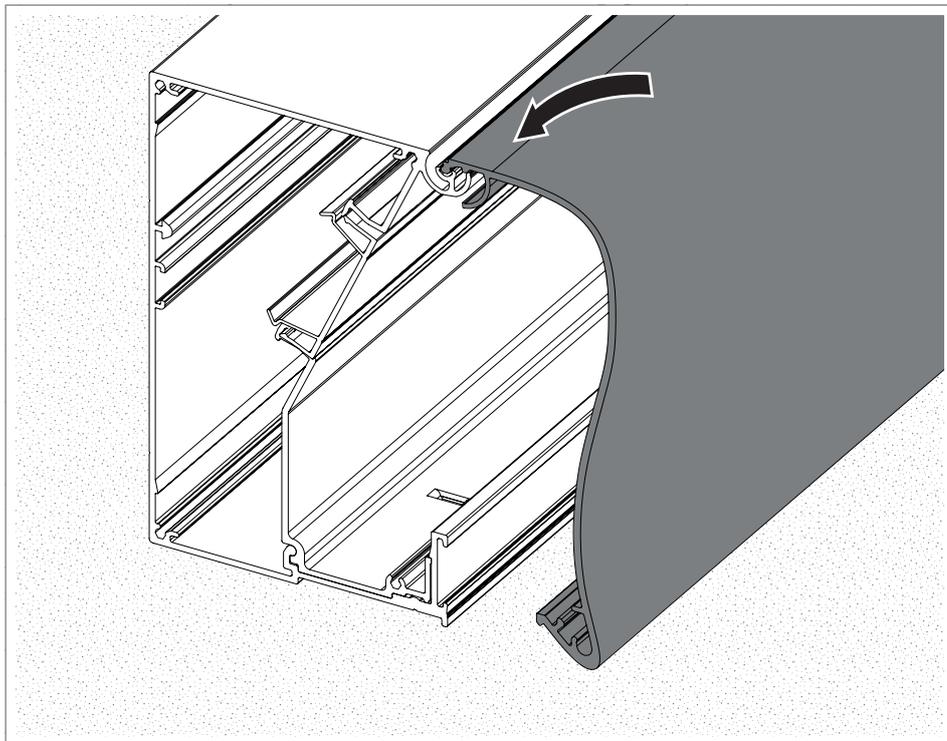


Fig. 8: Mounting the trunking cover

4. Close the GAD Design device installation trunking ❶ with the trunking cover ❸.

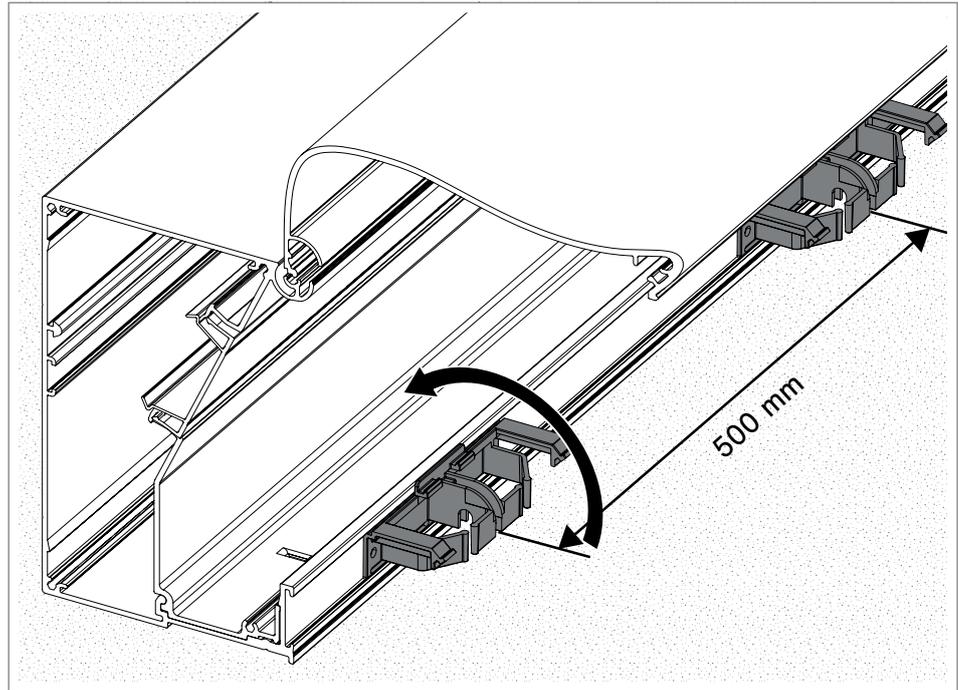


Fig. 9: Mounting the cover adapter

5. Engage the cover adapter ⑥ in the C profile rail of the GAD Design device installation trunking ①. In doing so, maintain a distance of 500 mm.

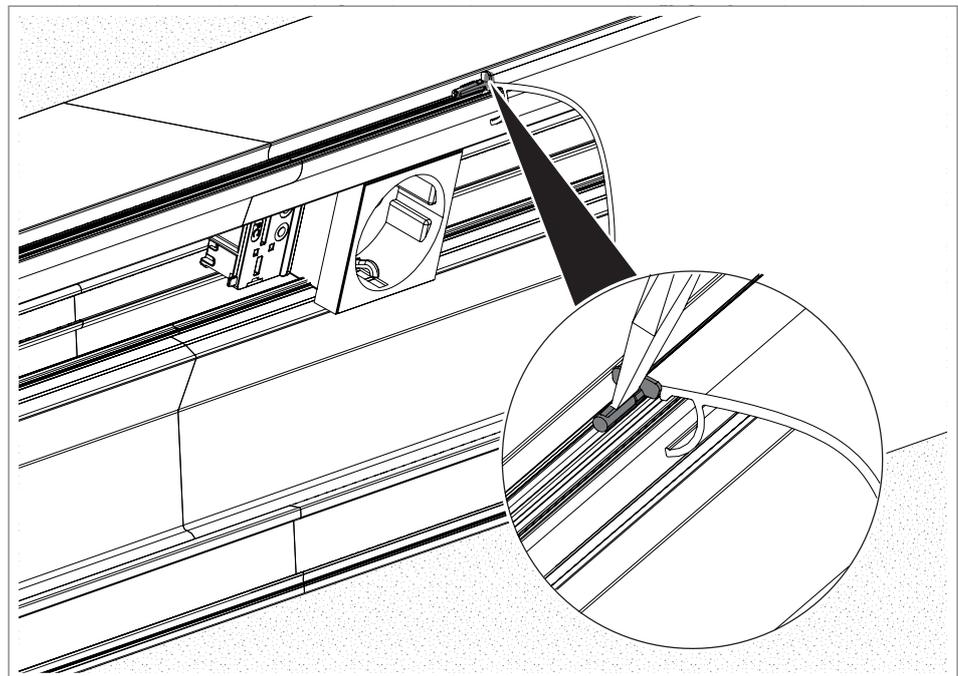


Fig. 10: Mounting the spacer

6. Using a screwdriver, mount the spacer ⑨ in the C profile rail of the GAD Design device installation trunking ①.

6.4 Mounting fittings

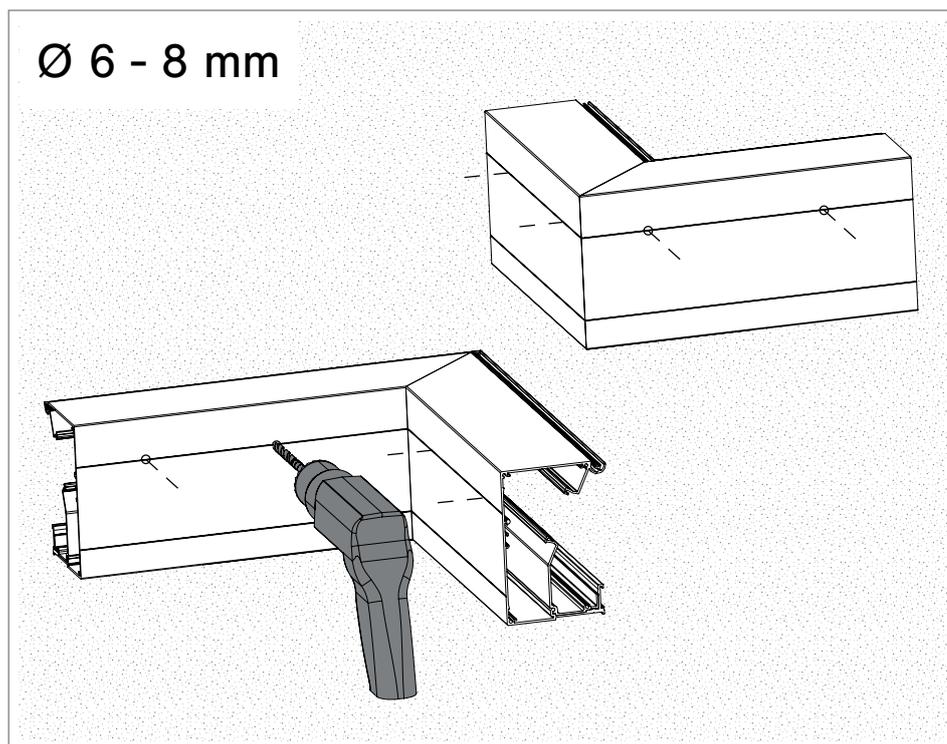


Fig. 11: Pre-drilling fittings

1. Pre-drill fittings 2/13 of the GAD Design device installation trunking 1 with a diameter of 6–8 mm.

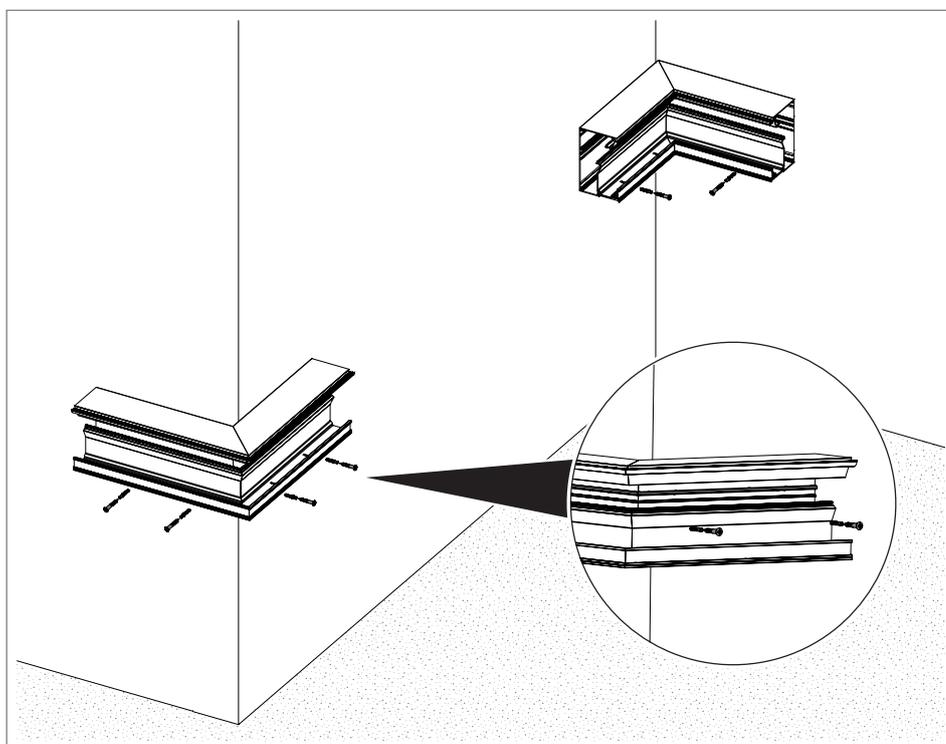


Fig. 12: Mounting fittings

2. Fasten fittings 2/13 of the GAD Design device installation trunking 1 on the wall in the drilled holes using suitable fastening materials (e.g.

screws and anchors).

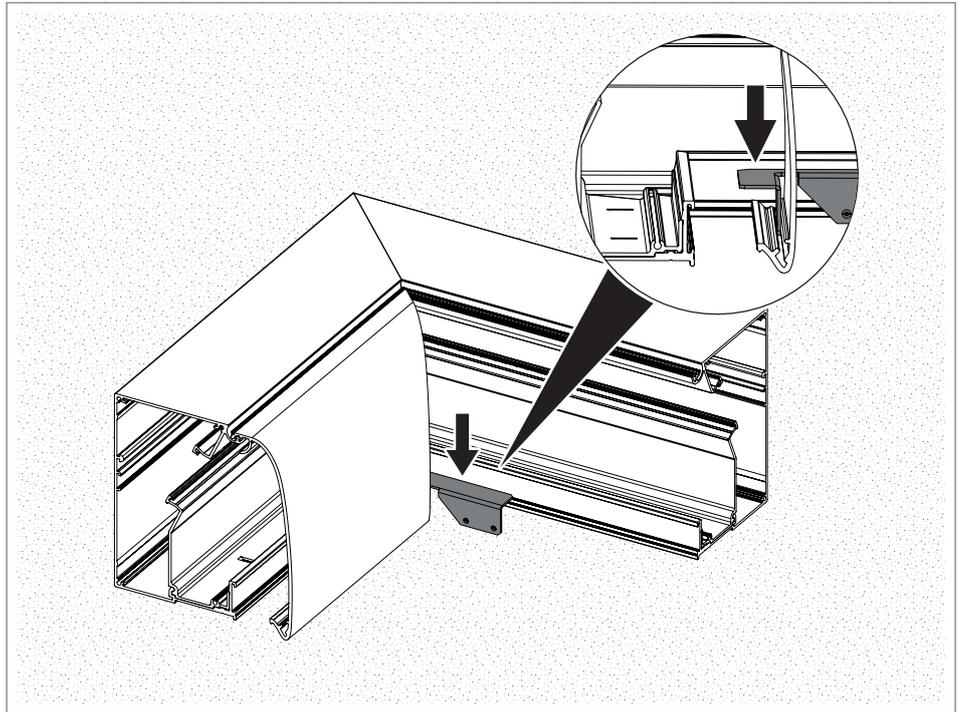


Fig. 13: Mounting the lock

3. Push the lock into the cover of the fittings ③/⑫.

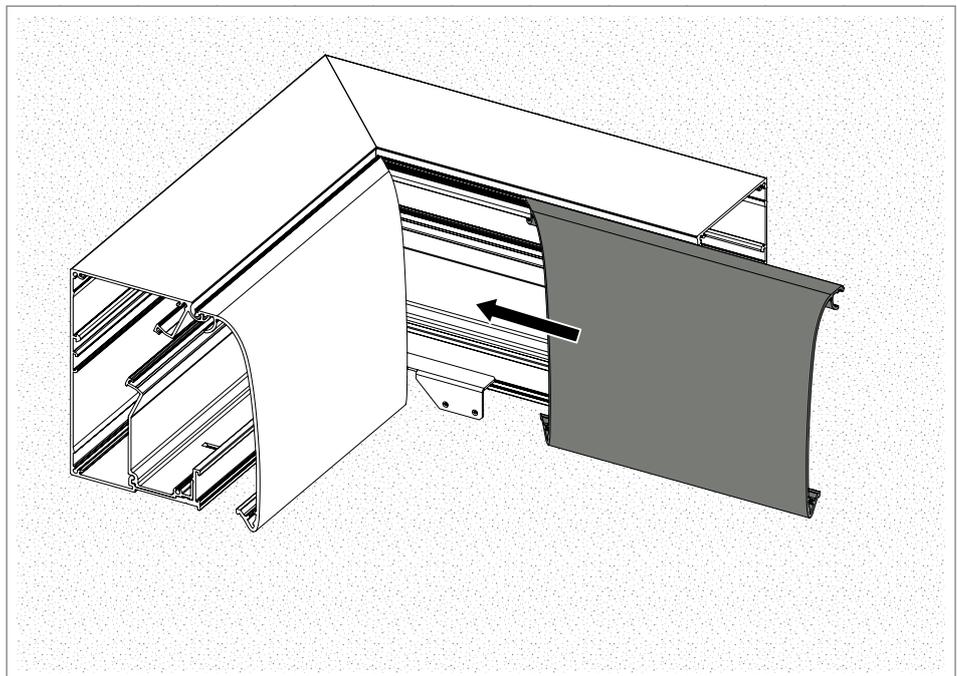


Fig. 14: Engaging the fittings' cover

4. Push the cover of the fittings ③/⑫ onto the lock.

6.5 Mounting accessories

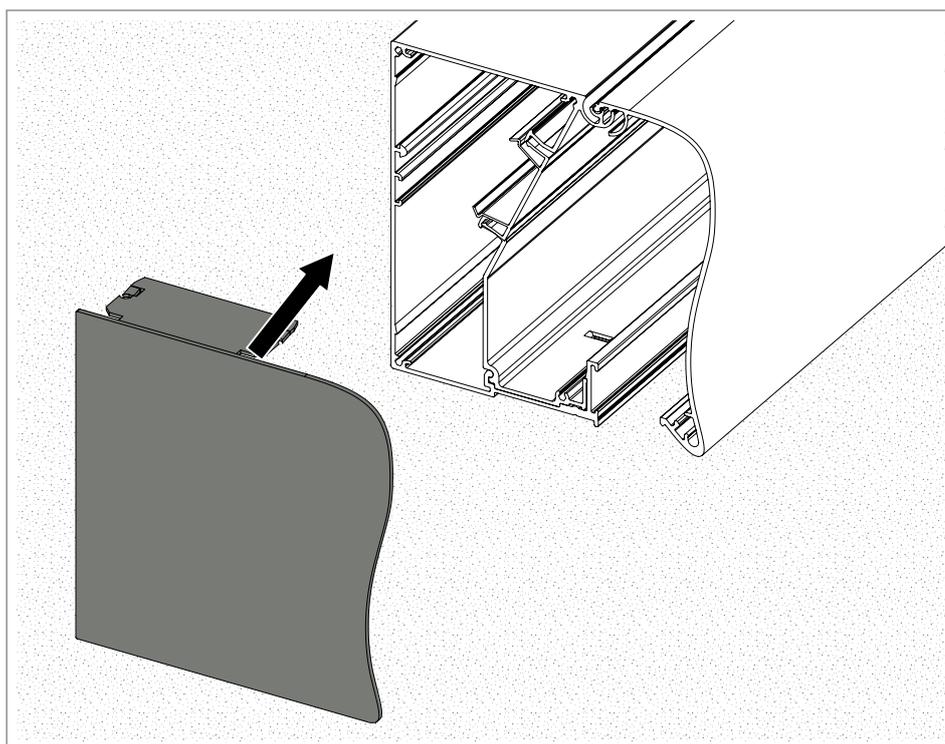


Fig. 15: Mounting the end piece

1. Engage the end pieces 15 onto the trunking ends.

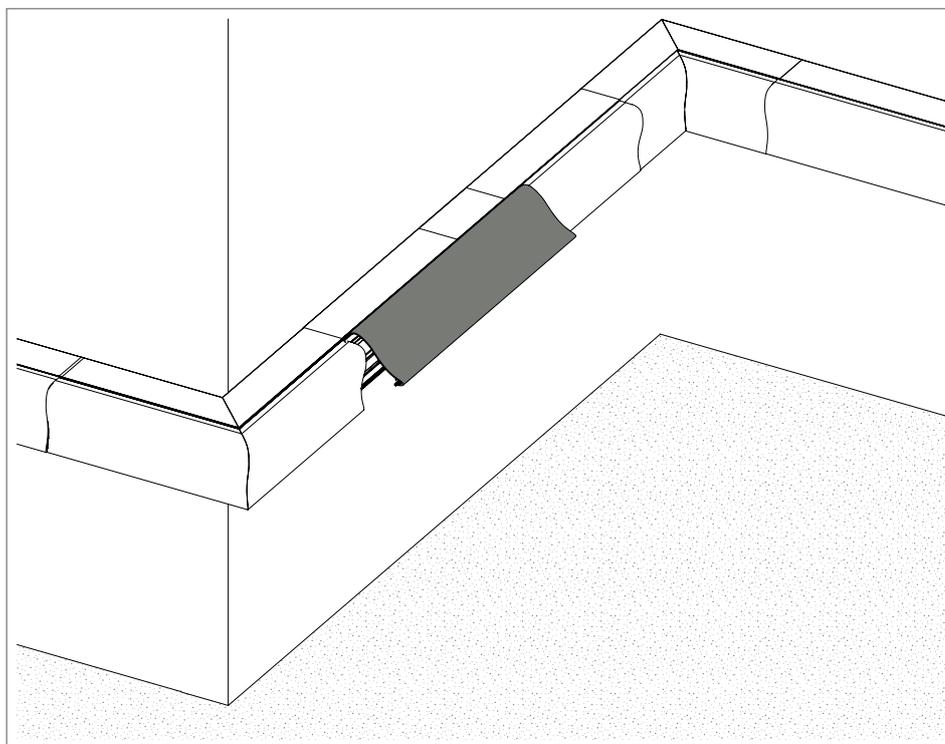


Fig. 16: Opening the trunking cover

2. Open the trunking cover 3/4/12 to run out the cables.

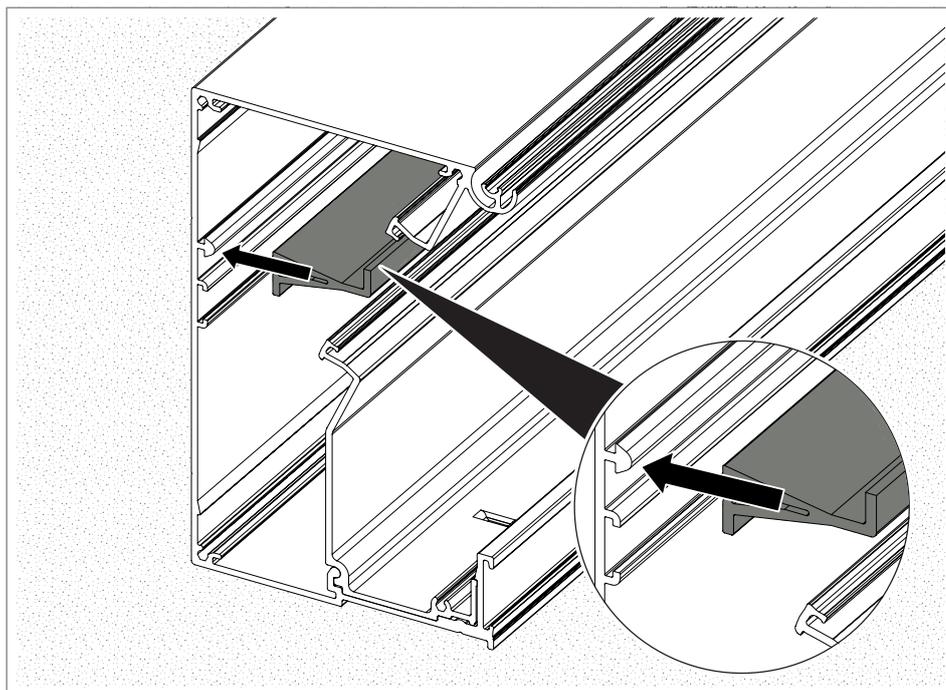


Fig. 17: Mounting the partition

3. Engage the partition ⑤ onto the mushroom profile.

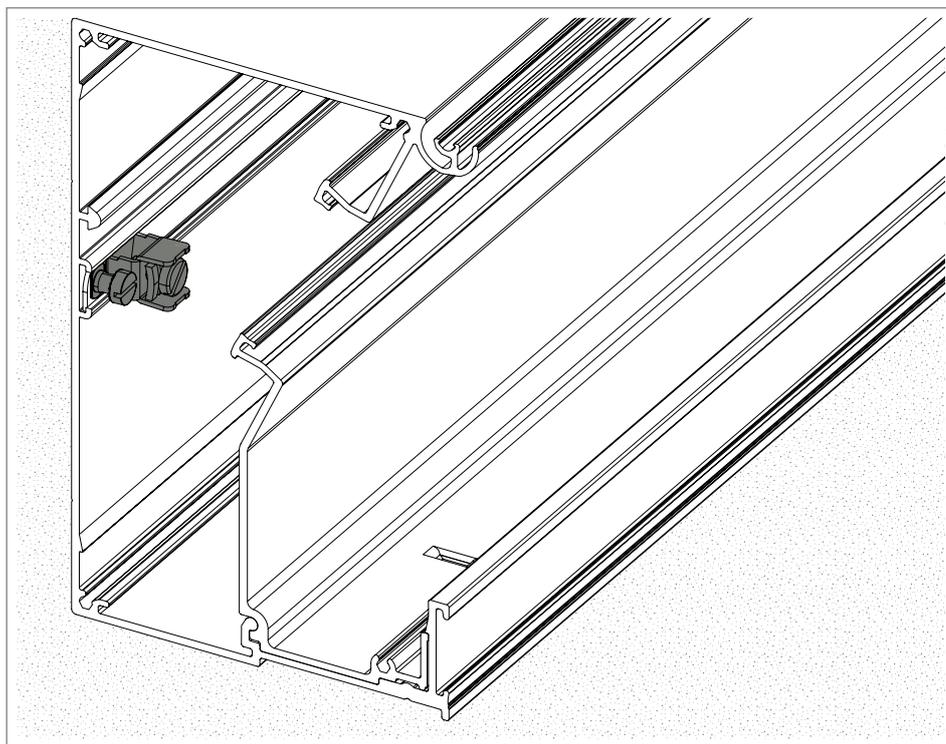


Fig. 18: Creating the earthing connection

Note!

*As soon as the GAD Design device installation trunking is included in the protective equipotential bonding with the 8AWR earth conductor clamp, then the whole system is earthed.
The joint connector automatically interconnects each trunking base and fitting.*

4. Create the earthing connection with the 8AWR protective conductor connection bracket ⑦.

7 Disposing of the GAD Design device installation trunking

Observe the local waste disposal regulations:

- Metallic parts as scrap metal
- Plastic parts as domestic waste

8 Technical data

8.1 GAD Design device installation trunking

Type	Item no.	Dimensions (in mm)	Material	Surface
GAD UEL	6115775	114 x 140 x 2,000	Aluminium	Anodised

Tab. 2: Technical data: GAD Design device installation trunking

8.2 Fittings

8.2.1 External corner

Type	Item no.	Dimensions (in mm)	Material	Surface
GAD AEL	6115789	114 x 140 x 300	Aluminium	Anodised

Tab. 3: Technical data: External corner

8.2.2 Internal corner

Type	Item no.	Dimensions (in mm)	Material	Surface
GAD IEL	6115795	114 x 140 x 300	Aluminium	Anodised

Tab. 4: Technical data: Internal corner

8.2.3 End piece

Type	Item no.	Dimensions (in mm)	Material	Surface
GAD EL Swing EL	6115915	133 x 140 x 37	Aluminium	Anodised
GAD EL Soft EL	6115935	126 x 140 x 37	Aluminium	Anodised
GAD EL Style EL	6115955	125 x 140 x 37	Aluminium	Anodised
GAD ER Swing EL	6115925	133 x 140 x 37	Aluminium	Anodised
GAD ER Soft EL	6115945	126 x 140 x 37	Aluminium	Anodised

GAD ER Style EL	6115965	125 x 140 x 37	Aluminium	Anodised
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Tab. 5: Technical data: End piece

8.3 Accessories

Type	Item no.	Dimensions (in mm)	Material	Colour
GAD OTA	6115975	25 x 80 x 29	Polyamide	Graphite black
GAD SB	6115995	62 x 58 x 2	Steel	
2371 40	6023096	40 x 2.000	Polyvinyl chloride	Light grey

Tab. 6: Technical data: Accessories

8.3.1 Covers

Type	Item no.	Dimensions (in mm)	Material	Surface
OT GAD Swing EL	6115825	52 x 140 x 999	Aluminium	Anodised
OT GAD Soft EL	6115835	45 x 140 x 999	Aluminium	Anodised
OT GAD Style EL	6115845	44 x 140 x 999	Aluminium	Anodised
OT A Swing EL	6115851	52 x 140 x 433	Aluminium	Anodised
OT A Swing EL	6115855	45 x 140 x 426	Aluminium	Anodised
OT A Style EL	6115865	44 x 140 x 424	Aluminium	Anodised
OT I Swing EL	6115875	52 x 140 x 218	Aluminium	Anodised
OT I Soft EL	6115885	45 x 140 x 218	Aluminium	Anodised
OT I Style EL	6115895	44 x 140 x 218	Aluminium	Anodised

Tab. 7: Technical data: Covers

8.3.2 Earthing components

Type	Item no.	Dimensions (in mm)	Material	Surface
8AWR	6288704	20 x 12 x 15	Steel	Electrogalvanised
GEK AKU45	6116752	3 x 24	Steel	

Tab. 8: Technical data: Earthing components

8.3.3 Spacer

Type	Item no.	Dimensions (in mm)	Material	Colour
GAD OTD RW	6115980	9 x 12 x 5.5	Polyamide	Pure white
GAD OTD LGR	6115982	9 x 12 x 5.5	Polyamide	Light grey
GAD OTD SW	6115985	9 x 12 x 5.5	Polyamide	Graphite black

Tab. 9: Technical data: Spacer

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Building Connections

