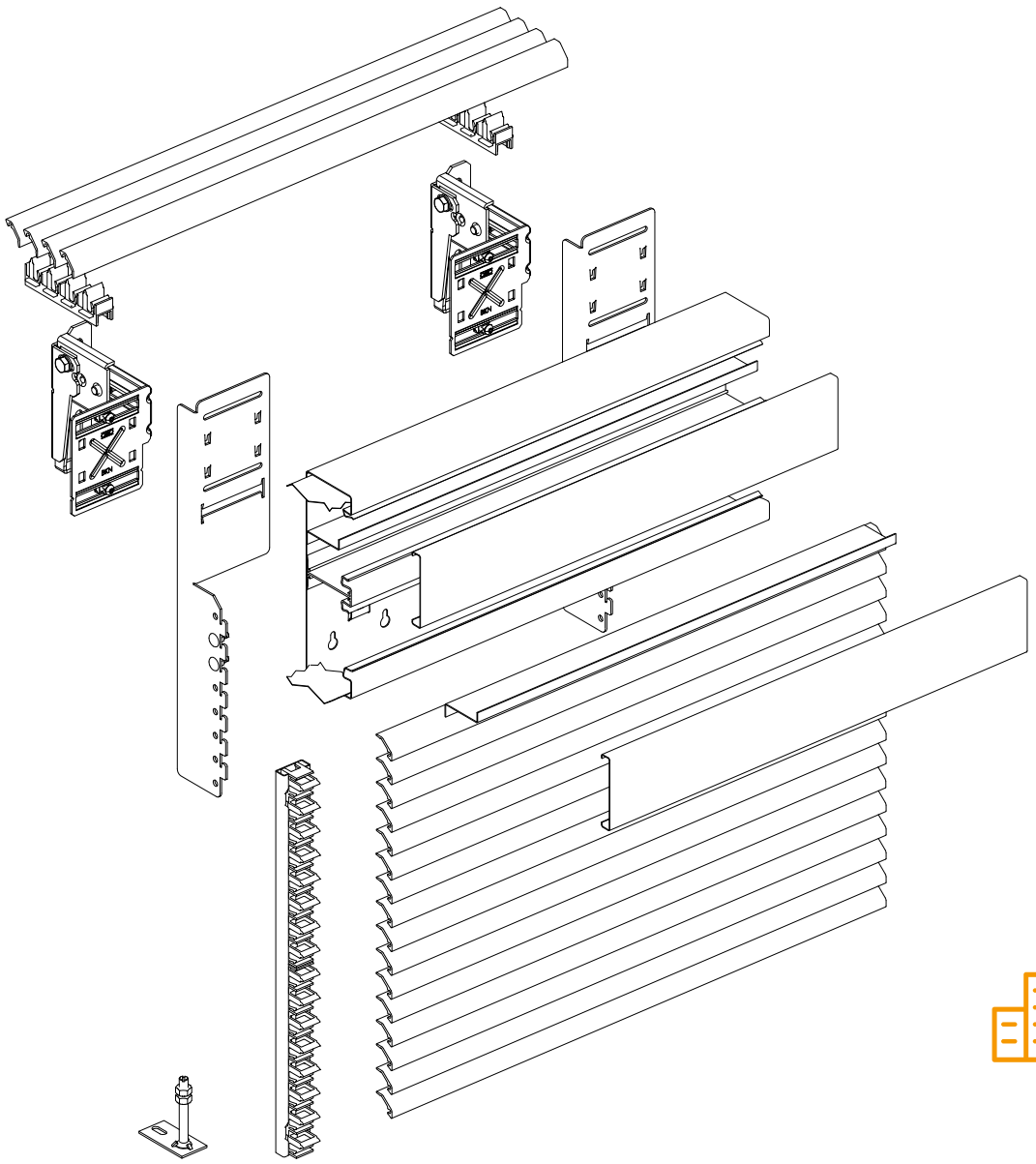


Mounting instructions

Device installation trunking mounting accessories

OBO BETTERMANN

Device installation trunking mounting accessories
Mounting instructions

Table of contents

1 About these instructions

1.1 Target group

These instructions are intended for the following target groups:

– Trained electrical specialists charged with mounting the mounting accessories

– 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 (October 2025).

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

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

All the documents supplied with the product must be stored in an easily accessible location, so that they are available when information is required. (Only for printed instructions)

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

To find out more about planning and mounting the product, we recommend a comprehensive training course.

1.3 Types of warning information

Note! *Indicates important information or assistance.*

1.4 Basic standards and regulations

Note! *The applicable national regulations of the respective country must be complied with.*

– DIN EN 50085, VDE 0604-2-1:2012-09 “Cable trunking systems and cable ducting systems for electrical installations”

– DIN VDE 0100 – Part 410: Protection measures

– DIN VDE 0100 – Part 520: Selection and erection of electrical equipment/Protection against external electrical influences (EMC)

– DIN VDE 0105: Operation of electrical installations (general

requirements)

– DIN VDE 0107: Heavy-current installations in medical rooms

– DIN VDE 0298: Application of cables and cords in power installations

– EN 50310: Telecommunications bonding networks for buildings and other structures

– EN 50174: Information technology – Cabling installation

– DIN 18015-1: Electrical installations in residential buildings – Part 1: Planning principles

– prEN 50642: Cable management systems – Test method for content of halogens

– Safety regulations for office workstations

– Protection against unauthorised access, e.g. in administrations, military or similar

– Shock protection for protection areas for civil defence

1.5 Applicable documents

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

– Symbol approvals, see https://www.obo.de/service/downloads/zertifikate/gebaeudeinstallation/leitungsfuehrungs-systeme/

2 Intended use

Structural factors often require device installation trunking to be mounted at a specific distance from the wall or breastwork. Here, depth-adjustable fastening panels are used, which allow exact fastening.

The open spaces between the device installation trunking and the wall or the floor can be covered both horizontally and vertically using appropriate mounting accessories and convection grid profiles.

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.

– Do not stand on painted or coated surfaces, in order to prevent damage to the surfaces.

3.2 Personal protective equipment

List of personal protective equipment to be used:

Use hand protection

Wear safety shoes

4 Necessary tools

List of tools to be used:

– Screwdriver

– Drill

5 System overview

5.1 System description

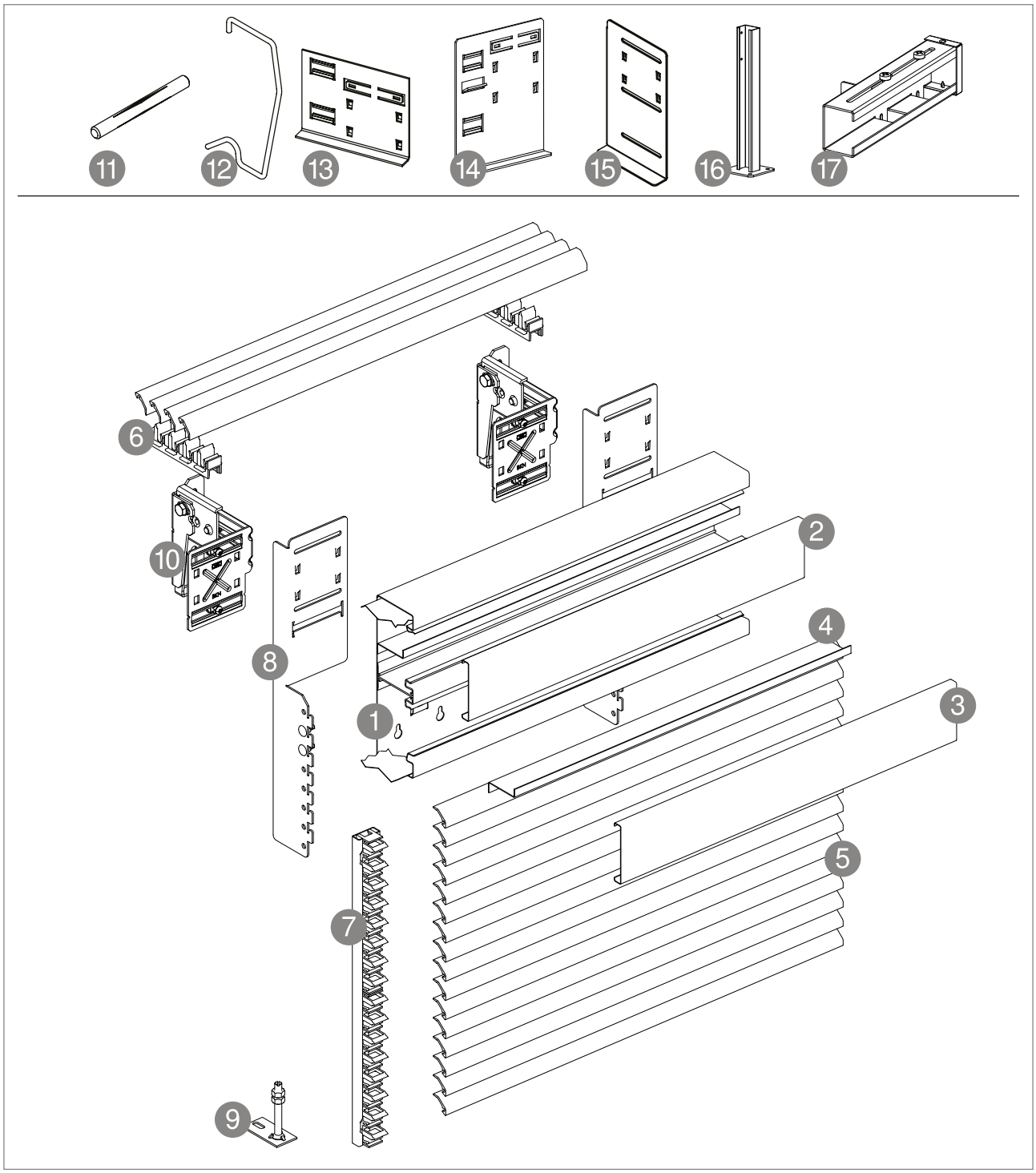
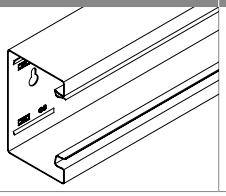
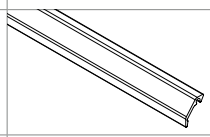
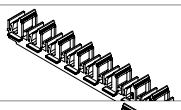
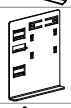
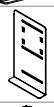
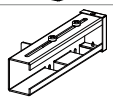


Abb. 1: System description: device installation trunking mounting accessories

Item no.	Designation	Figure	Function
1	Device installation trunking		Device installation trunking, symmetrical for routing large volumes of electrical cables indoors. With base perforation for direct mounting on the wall. Device installation possible. Modul 45® devices and switch programmes in support ring and support clamp design can be installed with accessory mounting boxes.

Item no.	Designation	Figure	Function
2	Steel cover		Sheet steel cover for closing the device installation trunking.
3	Plastic cover		Plastic cover to close the device installation trunking.
4	Partition		Partition to divide the device installation trunking for the installation of different voltage levels.
5	Convection grid profile KG2		Sloping convection grid profile, for the optically attractive closing of spaces between the device installation trunking and the wall. The convection grid profiles are suitable for horizontal and vertical mounting.
6	Horizontal profile connector PV		Horizontal profile connector with guide slits to lock convection grid profiles. The profile connector is mounted on the fastening panel using the clamp, type SP3.
7	Vertical profile connector PVV		Vertical profile connector with guide slits to lock convection grid profiles for the creation of a convection grid unit.
8	Mounting and connection profile MVKG		Mounting and connection profile for panel mounting of device installation trunking in conjunction with vertical convection grid profiles.
9	Floor bracket BVL		The BVL floor bracket is used to fasten vertical profile connectors of type PVV/N2... on the floor.
10	Fastening panel BKN		Fastening panel for mounting device installation trunking on skirting board constructions and as a support for the convection grid.
11	Coupling pin 8VS4		Coupling pin to connect convection grid profiles.
12	Clamp SP3		Clamp to lock supports between the convection grid and the fixing panel.
13	Wall panel adapter KS		Wall panel adapter for mounting GK70... device installation trunking to fastening panels.
14	Wall panel adapter KSS		Wall panel adapter to mount the Signa Base (BRK 70...) and Signa Style (BRA 70...) device installation trunking to fastening panels.
15	Connection profile KSP		Connection profile for mounting and stabilising Rapid 80 device installation trunking, type GS and GA, of nominal width 170 mm and 210 mm.
16	BOS floor support		Floor support for mounting device installation trunking in front of window facades.
17	BOSKB trunking fastening		Trunking fastening for mounting of Rapid 80 (GK, GS, GA) device installation trunking on floor panels.

Tab. 1: System description: device installation trunking mounting accessories

Structural factors often require device installation trunking to be mounted at a specific distance from the wall or breastwork. Here, depth-adjustable fastening panels are used, which allow exact fastening.

The open spaces between the device installation trunking and the wall or the floor can be covered both horizontally and vertically using appropriate mounting accessories and convection grid profiles.

The standard colours are pure white, light grey, cream white and naturally anodised, but all the other RAL colours can also be provided.

6 Mounting the mounting accessories for device installation trunking

6.1 Mounting device installation trunking on fastening panels BKN

Fastening panel BKN for mounting device installation trunking on skirting board constructions and as a support for the convection grid.

Fastening panel BKN can be used for all device installation trunking types Rapid 80 (GK, GS and GA trunkings), Signa Base and Signa Style. Connection profiles KSP, wall panel adapters KS and wall panel adapters KSS are used to adapt the hole pattern for certain trunking types and fastening panel BKN. When mounting plastic GK device installation trunking and Rapid IBIS trunking, the matching KS wall panel adapter is also required. The KSS wall panel adapter is used for Signa Base and Signa Style device installation trunking. Connection profile KSP is required for mounting double trunking of type GS-D70170 and GS-D90170, as well as all GS and GA device installation trunking with a nominal width of 170 and 210 mm.

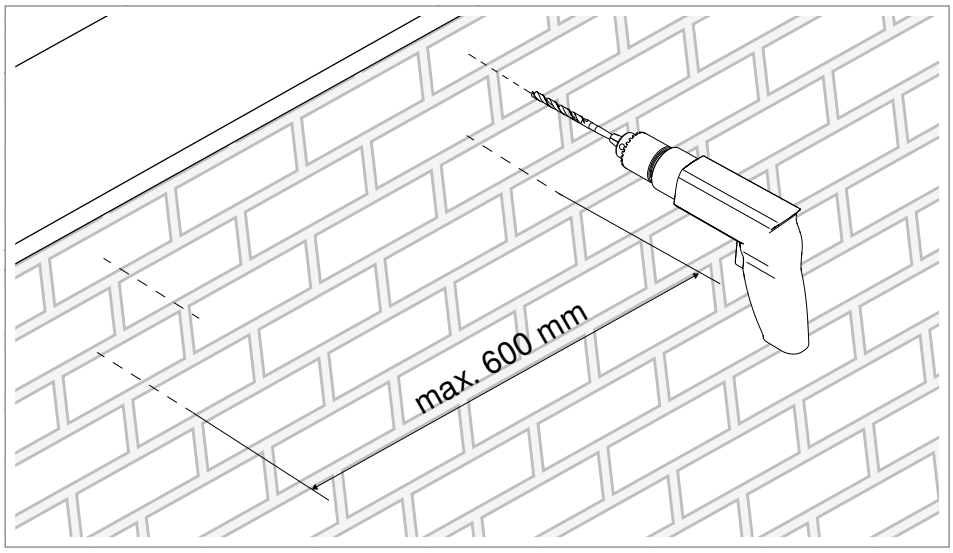


Abb. 2: Preparing trunking mounting

Note! *To mount the Rapid 80 (type GA) device installation trunking, the trunking base must be given the appropriate perforations in advance.*

Note! *To mount the Signa Base and Signa Style device installation trunking, the distance between the fastening panels must be a multiple of 80 mm.*

Note! *Mount 2 m device installation trunking with three fastening panels.*

1. Transfer the drill holes to the fastening substrate, taking care not to exceed the spacing of 600 mm.
2. Drill fastening holes.

3. Clean the drill holes carefully, e.g. through suction or blowing-out.

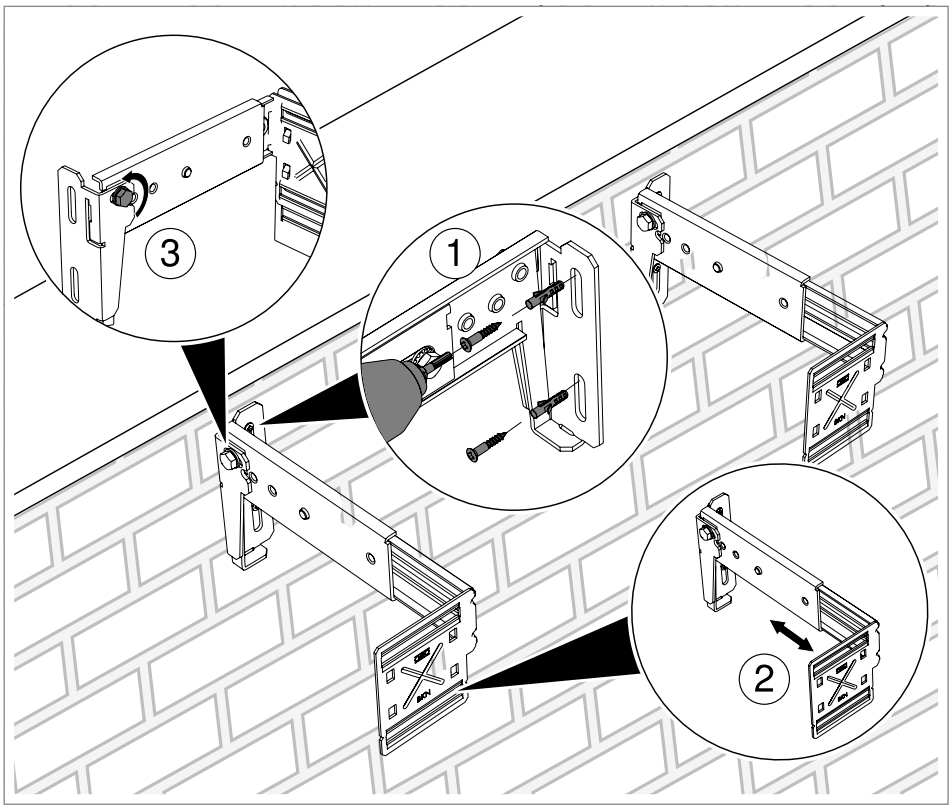


Abb. 3: Mounting the BKN fastening panel

Note! *In the case of mounting on fastening panels BKN, the distance between the individual panels must be selected in such a way that the trunking with the fastening system receives the full load capacity. The spacing may not exceed 600 mm.*

Note! *Height compensation is performed using the slots in the BKN fastening panel.*

4. Fasten the BKN fastening panel ⑩ to the wall in the slots using suitable fastening material (e.g. screw and anchor).

5. Adjust the required depth of the BKN fastening panel BKN ⑩ using the horizontal adjustment area.

6. Adjust the required incline of the BKN fastening panel ⑩ using the vertical adjustment area (incline of up to 3°).

6.2 Mounting the KSP connection profile

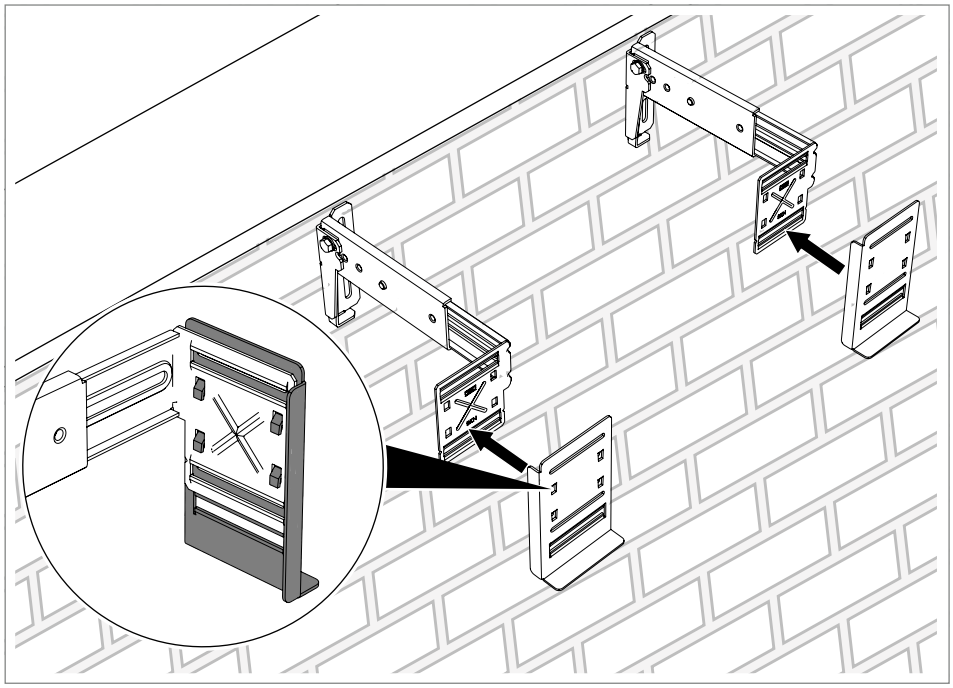


Abb. 4: Mounting the KSP connection profile

1. Remove the cage nut from the BKN fastening profile ⑩.
2. Hang the hook on the rear side of the KSP connection profile ⑮ into the BKN fastening panel ⑩.
3. Engage the cage nut in the KSP connection profile ⑮.

6.3 Mounting the KS wall panel adapter

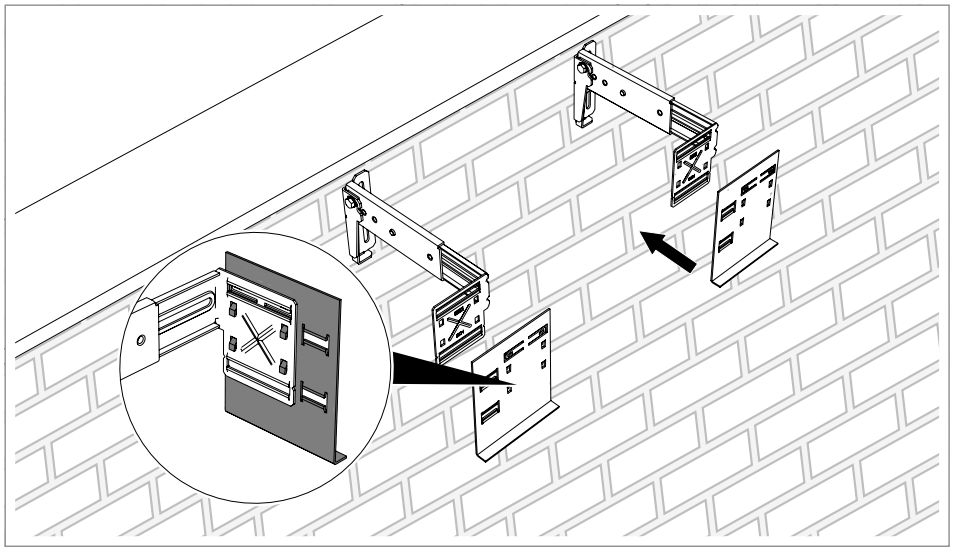


Abb. 5: Mounting the KS wall panel adapter

1. Remove the cage nut from the BKN fastening profile ⑩.
2. Hang the hook on the rear side of the KS wall panel adapter ⑬ into the BKN fastening panel BKN ⑩.

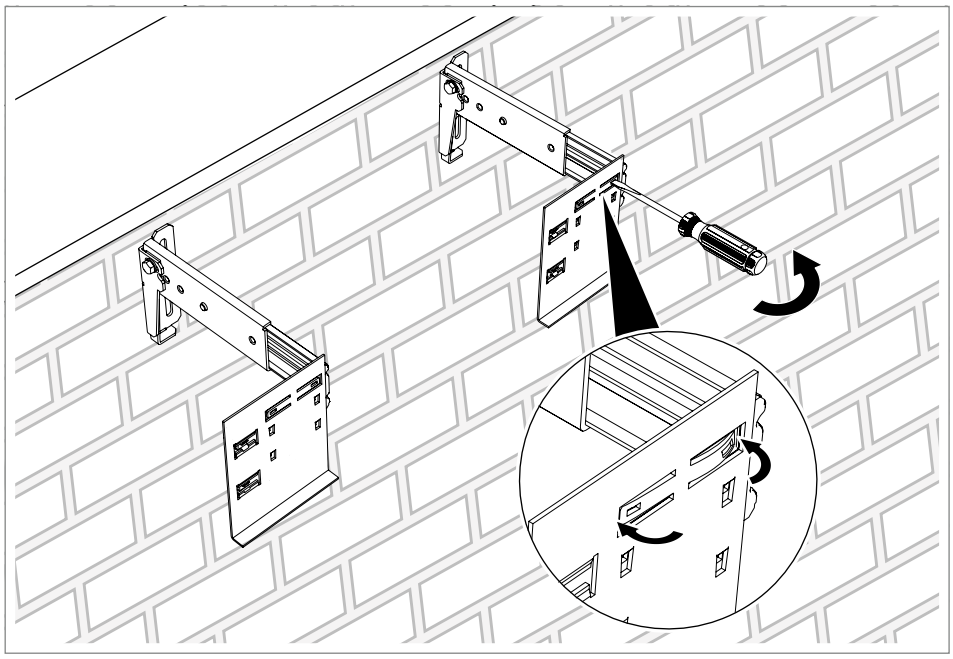


Abb. 6: Locking the wall panel adapter

Note! *With the Rapid IBIS device installation trunking, the wall panel adapter must be locked additionally.*

3. Lock the KS wall panel adapter ⑬ by bending the fastening straps.
4. Snap the cage nut in the KS wall panel adapter ⑬.

6.4 Mounting the KSS wall panel adapter

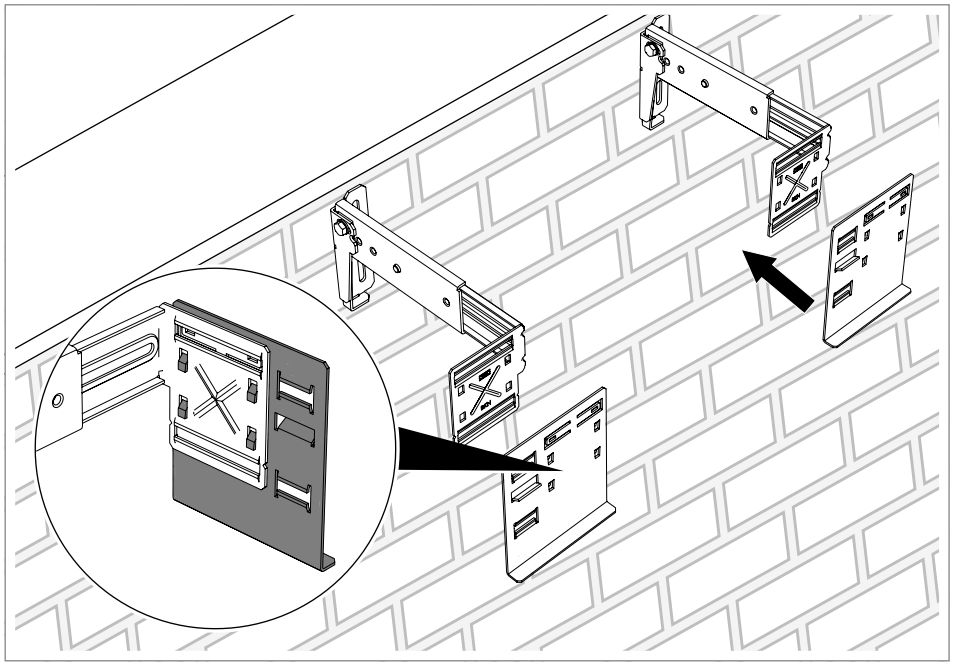


Abb. 7: Mounting the KSS wall panel adapter

1. Remove the cage nut from the BKN fastening profile ⑩.

2. Hang the hook on the rear side of the KSS wall panel adapter ⑭ into the BKN fastening panel BKN ⑩.

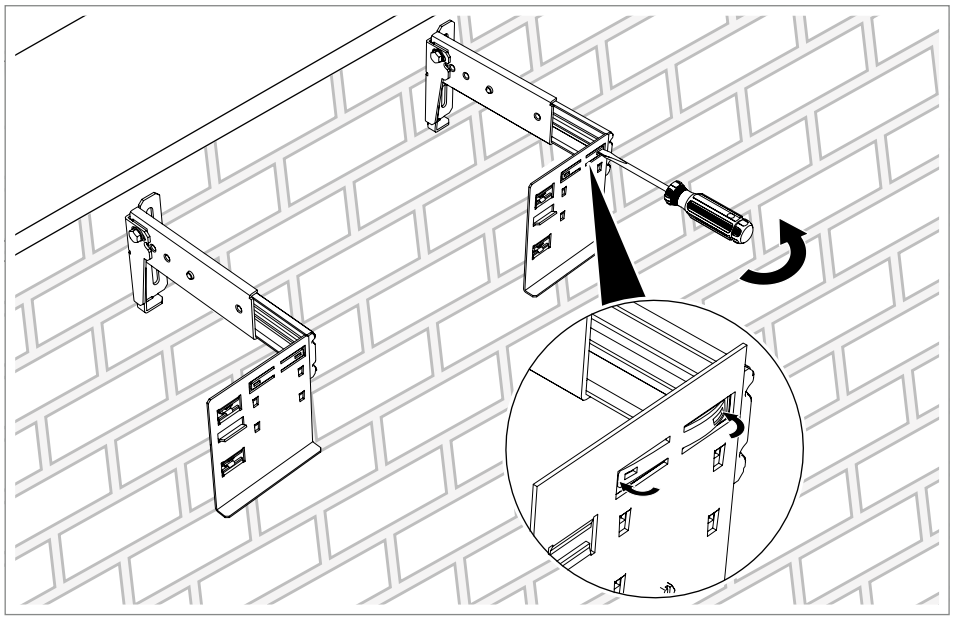


Abb. 8: Locking the wall panel adapter KSS

3. Lock the KSS wall panel adapter ⑭ by bending the fastening straps.

4. Snap the cage nut in the KSS wall panel adapter ⑭.

6.4.1 Mounting the device installation trunking Rapid 80

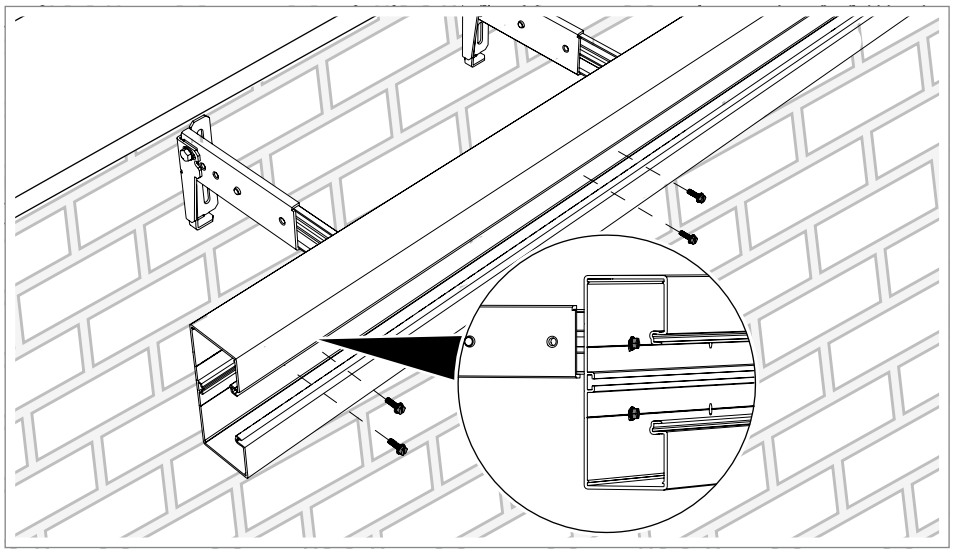


Abb. 9: Mounting the device installation trunking Rapid 80

1. Fasten the Rapid 80 device installation trunking ❶ to the BKN fastening panel ⑩ or the KSP connection profile ⑮/KS wall panel adapter ⑬ using the cage nuts and the associated screws.

6.4.2 Mounting device installation trunking Signa Base and Signa Style

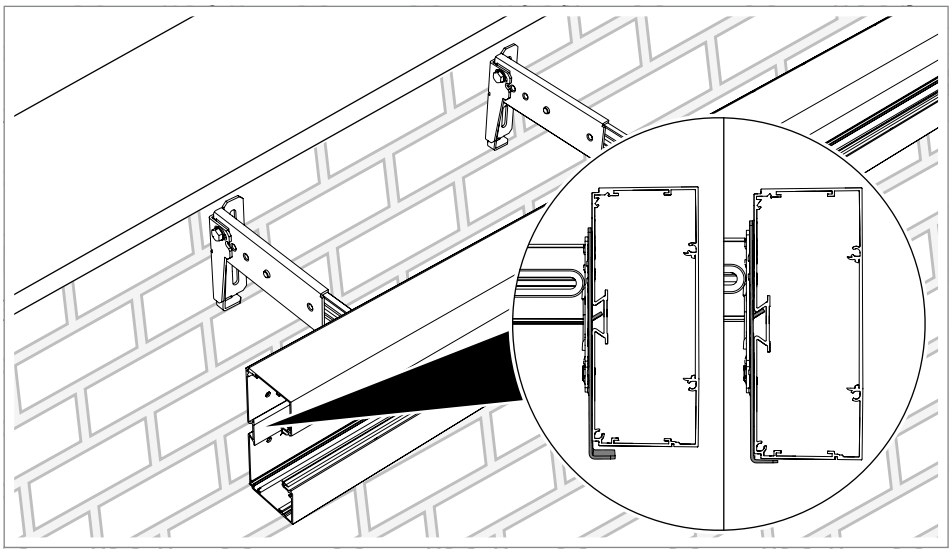


Abb. 10: Hanging device installation trunking Signa Base and Signa Style

1. Hang the central groove on the rear side of the Signa Base and Signa Style device installation trunking ❶ in the straps of the KSS wall panel adapter ⓮.

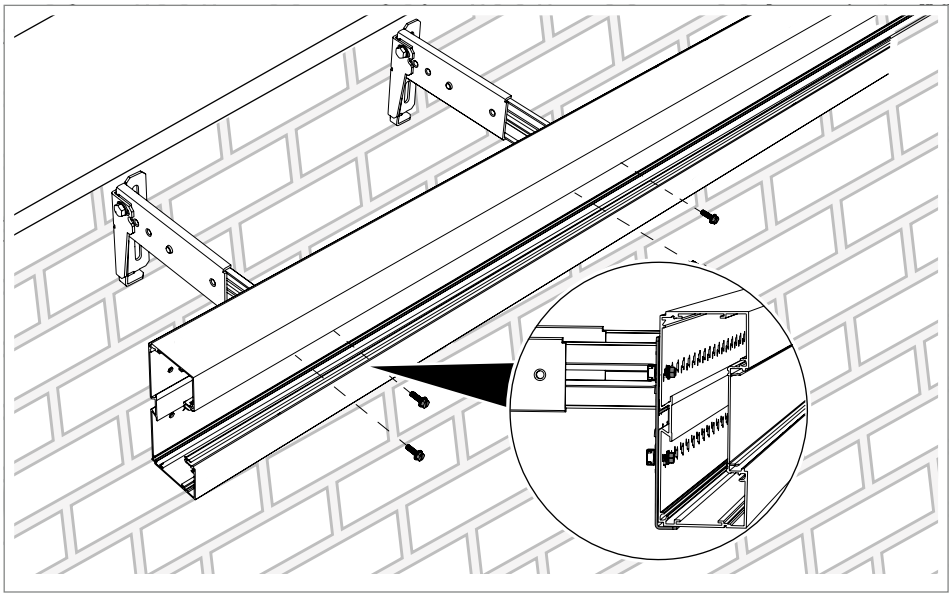


Abb. 11: Mounting device installation trunking Signa Base and Signa Style

2. Fasten the Signa Base and Signa Style device installation trunking ❶ to the BKN fastening panel ❿ or KSS wall panel adapter ⓮ using the cage nuts and the associated screws.

6.5 Mounting convection grid profiles KG2

Convection grid profiles are used for visual masking of radiator corners and enabling the circulation of the heating air.

Note! *When mounting the trunking in the vicinity of radiators (in front of or above them), then a distance of at least 35 mm must be maintained, so*

that the hot air does not cause unpermitted heating of the trunking system and the cables routed within. The maximum permitted temperatures of the cable manufacturer and the resulting switch-off conditions must be considered!

6.5.1 Mounting horizontal convection grid profiles KG2

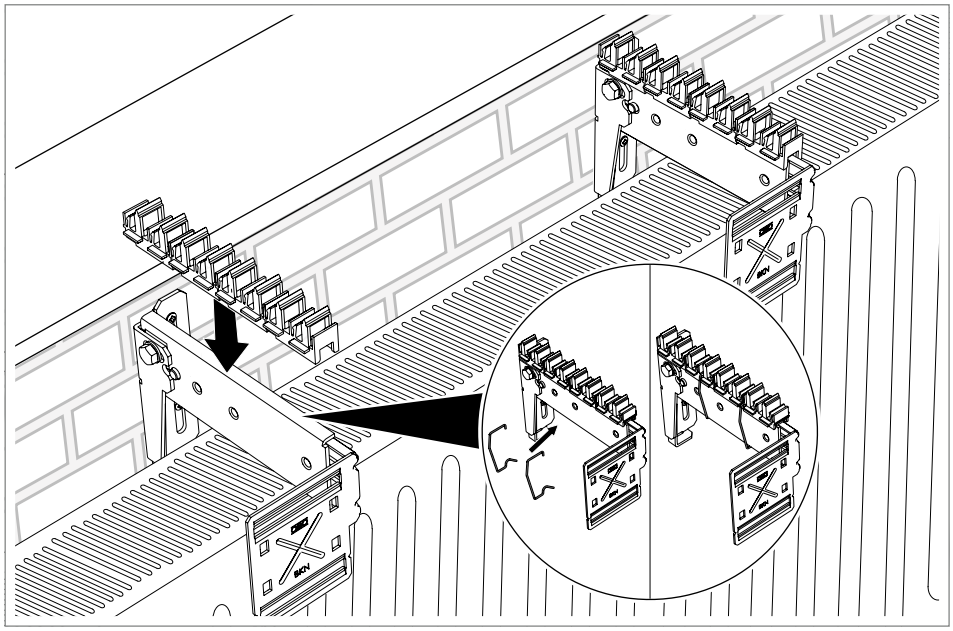


Abb. 12: Mounting the horizontal profile connectors

1. Snap the PV horizontal profile connector ❻ onto the BKN fastening panel ❿.
2. Fasten the PV horizontal profile connector ❻ to the BKN fastening panel ❿ using the SP3 clamp ⓬.

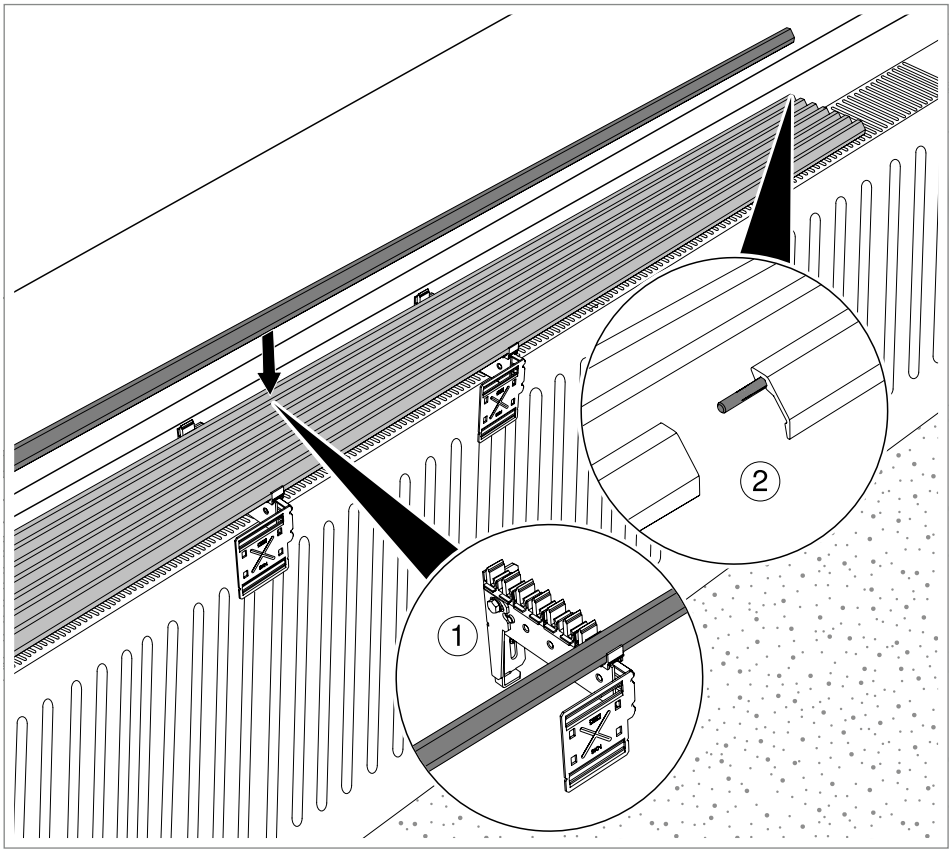


Abb. 13: Mounting the horizontal grid profiles KG2

3. Snap the KG2 convection grid profiles ❺ onto the PV horizontal profile connectors ❻.

4. Using the 8VS4 coupling pin ⓫ interconnect the KG2 convection grid profiles ❺ at the joints, in order to avoid height differences.

6.5.2 Mounting vertical convection grid profiles KG2

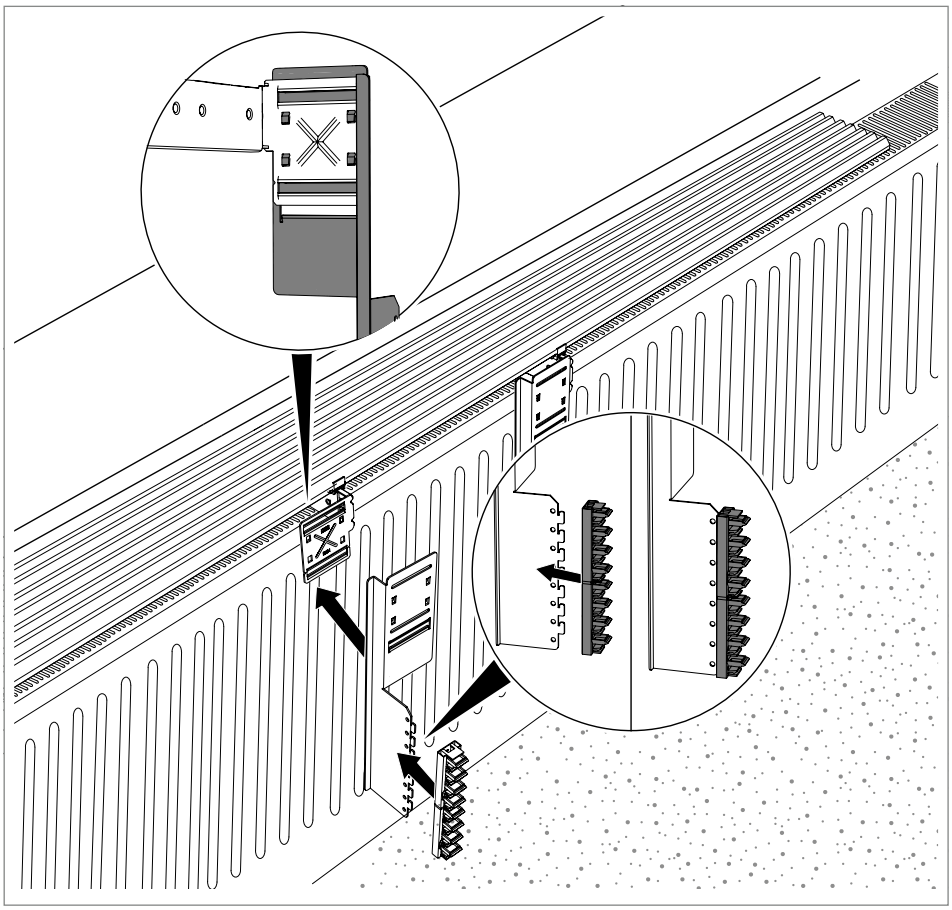


Abb. 14: Mounting the mounting and connection profiles MVKG

1. Hang the MVKG mounting and connection profile ❽ on the BKH fastening panel ❿.

2. Hang the PVV vertical profile connector ❼ on the MVKG mounting and connection profile ❽.

3. Fasten the device installation trunking ❶ to the MVKG mounting and connection profile ❽ using the cage nuts and the associated screws.

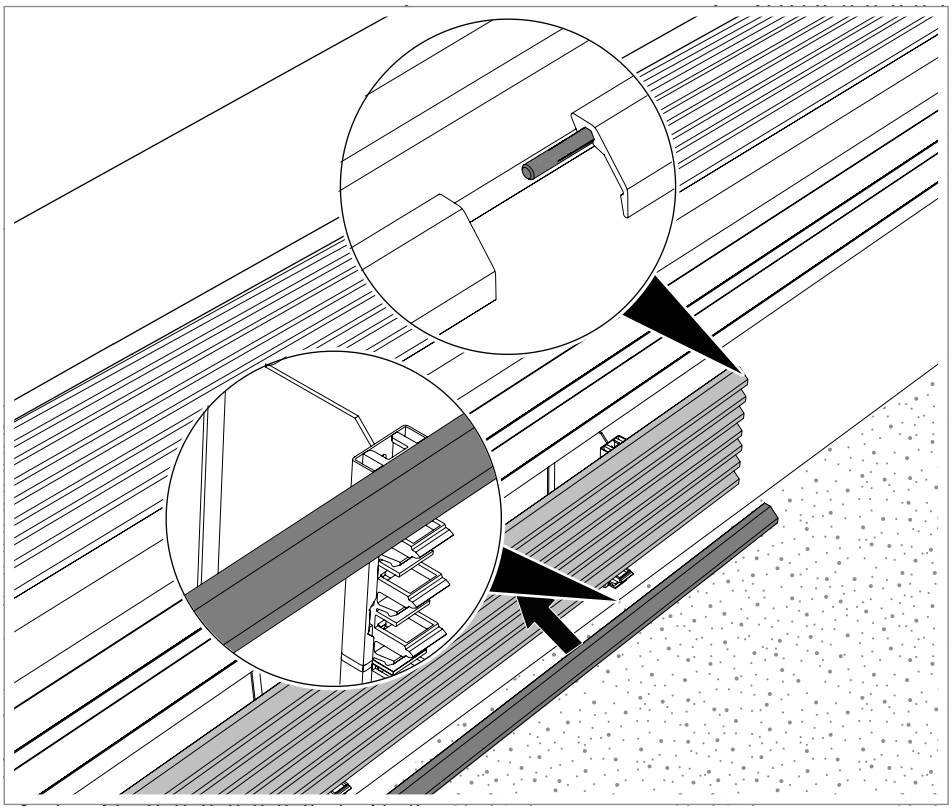


Abb. 15: Mounting vertical convection grid profiles KG2

4. Snap the KG2 convection grid profiles ❺ onto the PVV vertical profile connectors ❼.

5. Using the 8VS4 coupling pin ⓫ interconnect the KG2 convection grid profiles ❺ at the joints, in order to avoid height differences.

6.5.3 Mounting floor bracket BVL

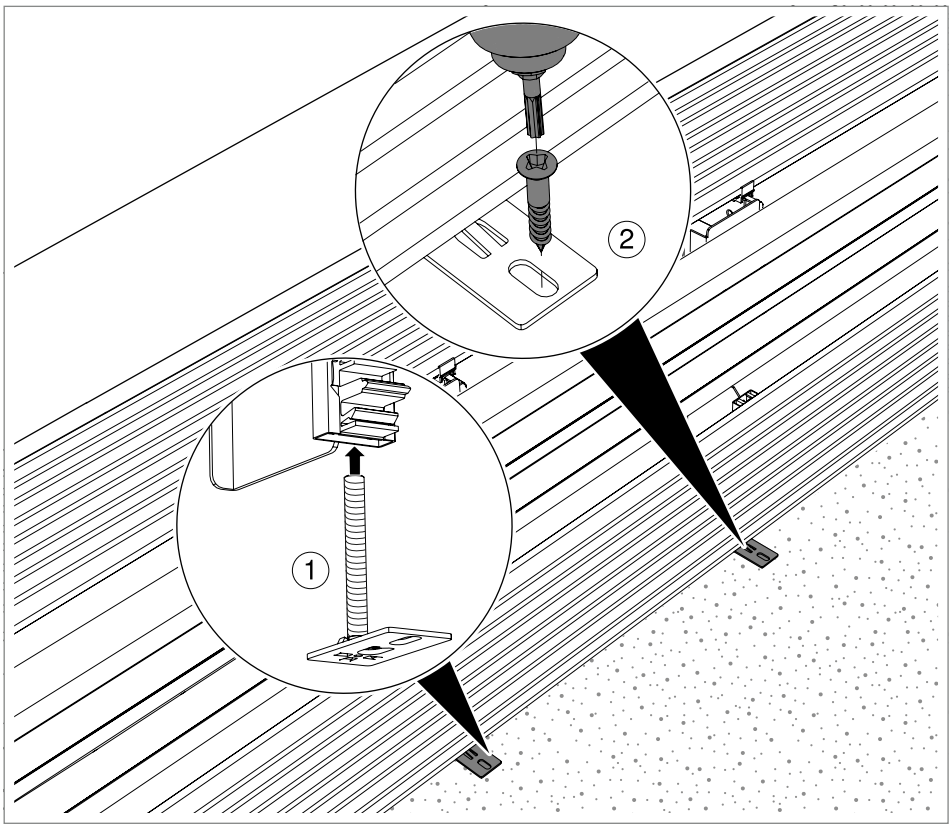


Abb. 16: Mounting floor bracket BVL

1. Slide the BVL floor bracket ⑨ into the PVV vertical profile connectors ⑦ from below.

2. Screw the BVL floor bracket ⑨ to the floor.

6.6 Mounting device installation trunking on floor support BOS

The trunking fastening can be used to position GS and GA device installation trunking on the BOS floor support freely in a room (e.g. in front of floor to ceiling windows).

The BOS floor supports and the corresponding cable fastenings are available in different lengths. The distance between the top edge of the trunking system and the floor corresponds to the length of the BOS floor support. To adjust the height of the trunking, the BOSKB trunking fastening can be pushed up by up to 100 mm.

Note! *Due to the locking perforation on the rear side of the trunking, the GS device installation trunking should not be mounted in front of window areas. The GA device installation trunking can be used for this.*

Note! *In the case of mounting on floor supports, the distance between the individual supports must be selected in such a way that the trunking with the fastening system receives the full load capacity. The spacing may not exceed 600 mm.*

6.6.1 Mounting floor support BOS and trunking fastening BOSKB

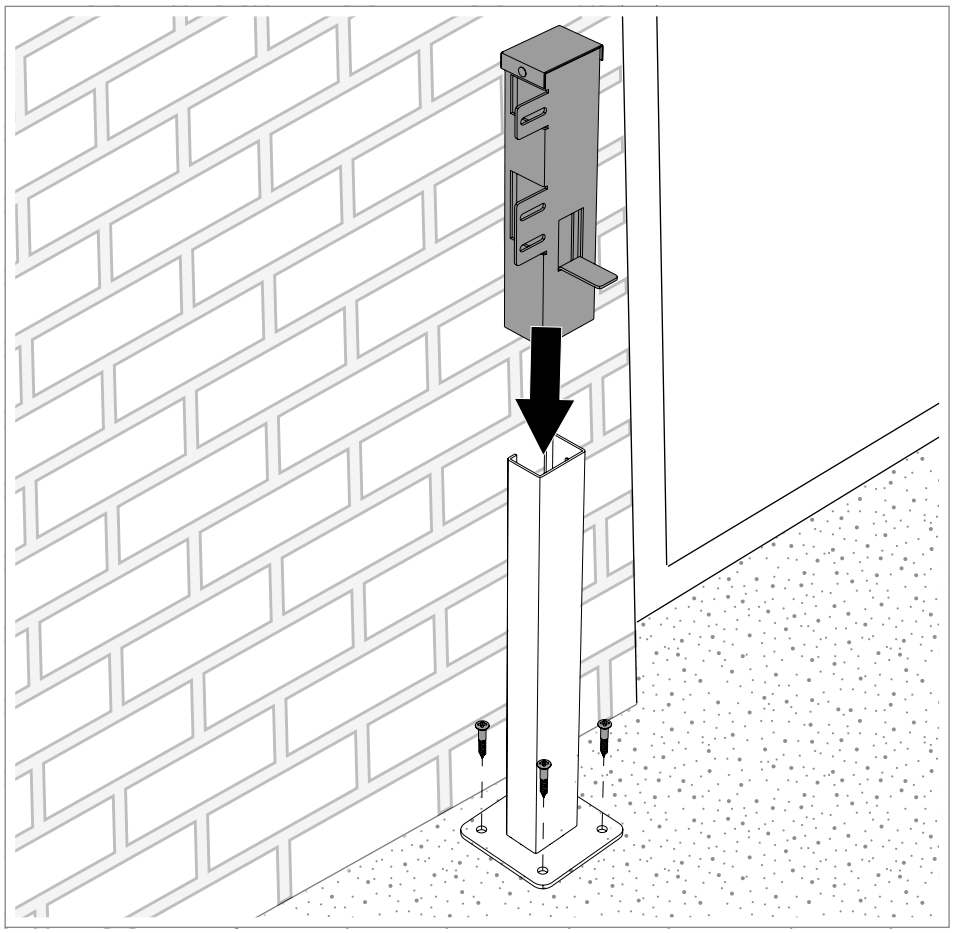


Abb. 17: Mounting the BOS floor support and BOSKB trunking fastening

1. Screw the BOS floor support ⑯ to the floor with 4 fastening screws, ensuring that the spacing of 600 mm is not exceeded.

2. Place the BOSKB trunking fastening ⑰ on the BOS floor support ⑯.

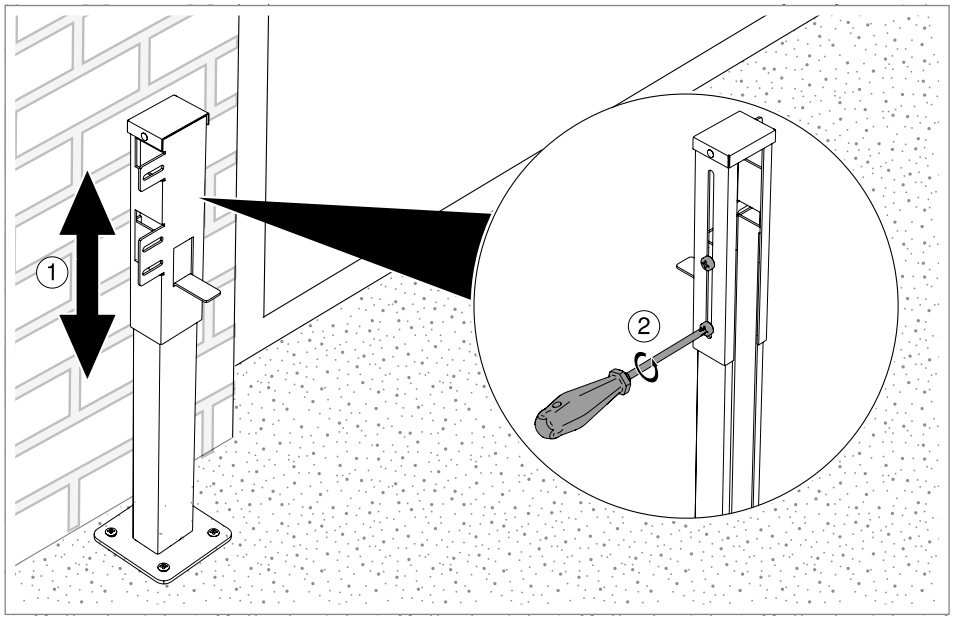


Abb. 18: Adjusting the height

3. Adjust the height of the BOS floor support ⑯ to the BOSKB trunking fastening ⑰.

4. Fix the BOSKB trunking fastening ⑰ with the two screws.

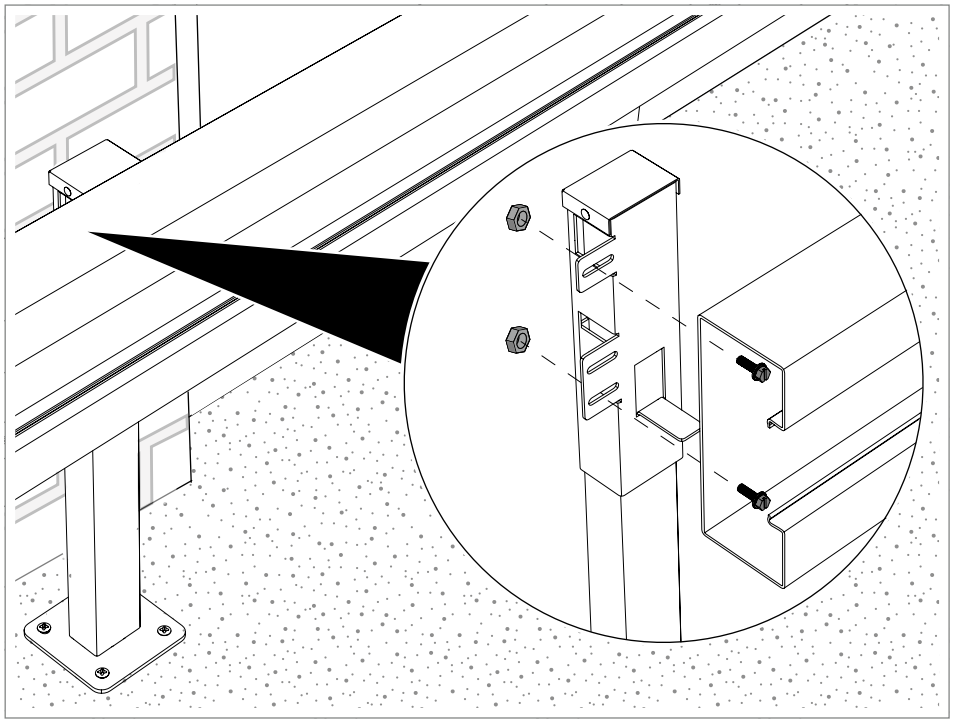


Abb. 19: Mounting the trunking

Note! *To mount the GA device installation trunking, the trunking base must be given the appropriate perforations in advance.*

5. Screw the trunking to the BOSKB trunking fastening ⑰ using nuts and bolts.

7 Mounting accessories maintenance

The requirements for maintaining mounting accessories vary depending on the mounting location and use.

Observe the following basic rules:

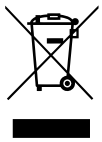
– If the mounting accessories are subjected to dynamic loads, e.g. when mounted directly to machine parts or conveyor systems, shaking motions or vibrations may loosen the mounting elements used. In this case, check the screw connections and the stability of the trunking system regularly.

– If only static loads occur, the trunking system does not have to be maintained.

8 Mounting accessories disassembly

Dismantling of all the elements of the mounting accessories takes place in the reverse order to mounting.

9 Mounting accessories disposal



Comply with the local waste disposal regulations.

– Metallic parts: As scrap metal

– Plastic parts: As plastic

– Packaging: As household waste (depending on packaging type)

10 Technical data

10.1 Wall panel adapter KS

Wall panel adapter KS	
Item no.	6279802, 6279804, 6279806
Material	Steel
Surface	Strip galvanised
Dimensions	KS70110: 128 x 102 x 27 mm KS70130: 128 x 122 x 27 mm KS70170: 128 x 162 x 27 mm

Tab. 2: Technical data: Wall panel adapter KS

10.2 Wall panel adapter KSS

Wall panel adapter KSS	
Item no.	6133669, 6133670, 6133671
Material	Steel
Surface	Strip galvanised
Dimensions	KSS70110: 130 x 107 x 17 mm KSS70130: 130 x 122 x 17 mm KSS70170: 130 x 152 x 17 mm

Tab. 3: Technical data: Wall panel adapter KSS

10.3 Connection profile KSP

Connection profile KSP	
Item no.	6279810, 6279812
Material	Steel

Connection profile KSP	
Surface	Strip galvanised
Dimensions	KSP 170: 92 x 152 x 36 mm KSP 210: 92 x 192 x 36 mm

Tab. 4: Technical data: Connection profile KSP

10.4 Convection grid profiles KG2

Convection grid profiles KG2	
Item no.	6287700, 6287710, 6287723, 6287733
Material	Aluminium
Colour	Pure white, anodised
Dimensions	20 x 22 x 2,000 mm or 20 x 22 x 3,000 mm

Tab. 5: Technical data: Convection grid profiles KG2

10.5 BOS floor support

BOS floor support	
Item no.	6288900, 6288902, 6288904
Material	Steel
Colour	Pure white
Dimensions	BOS400: 400–500 mm BOS600: 600–700 mm BOS800: 800–900 mm

Tab. 6: Technical data: Floor support BOS

10.6 BOSKB trunking fastening

BOSKB trunking fastening	
Item no.	6288911, 6288913, 6288915
Material	Steel
Colour	Pure white
Dimensions	BOSKB130: 130 mm BOSKB170: 170 mm BOSKB210: 210 mm

Tab. 7: Technical data: Trunking fastening BOSKB

10.7 Fastening panel BKN

Fastening panel BKN	
Item no.	6288001, 6288003, 6288005, 6288007

Fastening panel BKN	
Material	Steel
Surface	Strip galvanised
Dimensions	BKN50 80: 83 x 128 x 140 mm BKN75 125: 127 x 128 x 140 mm BKN120 205: 205 x 128 x 140 mm BKN200 350: 351 x 128 x 140 mm
Spacing from wall	BKN50 80: 53–83 mm BKN75 125: 78–127 mm BKN120 205: 120–205 mm BKN200 350: 198–351 mm

Tab. 8: Technical data: Fastening panel BKN

10.8 Mounting and connection profile MVKG

Item no.	Type	Dimensions	Material	Surface
6279820	MVKG70130	99 x 320 x 68 mm	Steel	Strip galvanised
6279822	MVKG70170	99 x 360 x 68 mm	Steel	Strip galvanised
6279824	MVKG70210	99 x 400 x 68 mm	Steel	Strip galvanised
6279826	MVKG90130	99 x 320 x 88 mm	Steel	Strip galvanised
6279828	MVKG90170	99 x 360 x 88 mm	Steel	Strip galvanised
6279830	MVKG90210	99 x 400 x 88 mm	Steel	Strip galvanised

Tab. 9: Technical data: Mounting and connection profile MVKG

10.9 Profile connector (horizontal) PV

Item no.	Type	Dimensions	Material	Colour
6288100	PV N3 50H	20 x 32 x 50 mm	Polypropylene	Natural
6288102	PV N3 75H	20 x 32 x 75 mm	Polypropylene	Natural
6288104	PV N3 100H	20 x 32 x 100 mm	Polypropylene	Natural
6288106	PV N3 125H	20 x 32 x 125 mm	Polypropylene	Natural
6288108	PV N3 150H	20 x 32 x 150 mm	Polypropylene	Natural
6288110	PV N3 175H	20 x 32 x 175 mm	Polypropylene	Natural
6288112	PV N3 200H	20 x 32 x 200 mm	Polypropylene	Natural
6288114	PV N3 225H	20 x 32 x 225 mm	Polypropylene	Natural
6288116	PV N3 250H	20 x 32 x 250 mm	Polypropylene	Natural
6288118	PV N3 275H	20 x 32 x 275 mm	Polypropylene	Natural
6288120	PV N3 300H	20 x 32 x 300 mm	Polypropylene	Natural

Tab. 10: Technical data: Profile connector (horizontal) PV

10.10 Profile connector (vertical) PVV

Item no.	Type	Dimensions	Material	Surface
6288034	PVV N2 150	32 x 34 x 150 mm	Polypropylene	Transparent
6288044	PVV N2 475	32 x 34 x 475 mm	Polypropylene	Transparent
6288084	PVV N2 500	32 x 34 x 500 mm	Polypropylene	Transparent
6288050	PVV N2 600	32 x 34 x 600 mm	Polypropylene	Transparent
6288052	PVV N2 625	32 x 34 x 625 mm	Polypropylene	Transparent
6288058	PVV N2 700	32 x 34 x 700 mm	Polypropylene	Transparent
6288090	PVV N2 800	32 x 34 x 800 mm	Polypropylene	Transparent
6288066	PVV N2 875	32 x 34 x 875 mm	Polypropylene	Transparent

Tab. 11: Technical data: Profile connector (vertical) PVV

10.11 Accessories

Item no.	Type	Dimensions	Material	Surface
6279800	SP3	65 x 39 x 1.8 mm	Steel	Strip galvanised
6287810	8VS4	4 x 40 mm	Steel	Galvanised
6288180	BVL	30 x 60 x 73 mm	Steel	Strip galvanised

Tab. 12: Technical data: Accessories

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