Underfloor trunking systems

Help your customers to stay ahead of the game!

The face of modern office architecture is shaped by large glass frontages and expansive interior areas, and classic external walls and internal walls are increasingly on their way out. This means that electrical engineers need to go ever further "underground" if they are to set up a capable, high-performance electrical infrastructure.

At Hager, we wish to continue to offer our active support with this in the future – and this is why we have significantly expanded our range of underfloor trunking systems.

The right system for every floor
The new underfloor trunking systems from Hager offer the perfect solution for every type of floor and for every requirement relating to electrotechnical installations – whether as a floor-mounted trunking system, a screed-covered trunking system, a trunking system that fits flush with the surface of the screed, systems for double floors or systems for cavity floors.

Alongside standard systems, we also continue to offer customised project solutions for special requirements, e. g. systems for heavy-duty loads.

Better than ever: the new tehalit.BKB
As part of the ongoing improvements, we have also optimised some of our more successful solutions: for example, the tehalit.BKB system is now even easier to install and even more practical to use. It is now available with three different variants of the upper part, which feature footfall sound insulation and can be ordered separately from the lower part. Of course, we still offer service posts and workplace connection systems that deliver elegant transitions between floor and workplace.

Help your customers to be happy without walls – with underfloor trunking systems from Hager!

Screed-covered trunking systems

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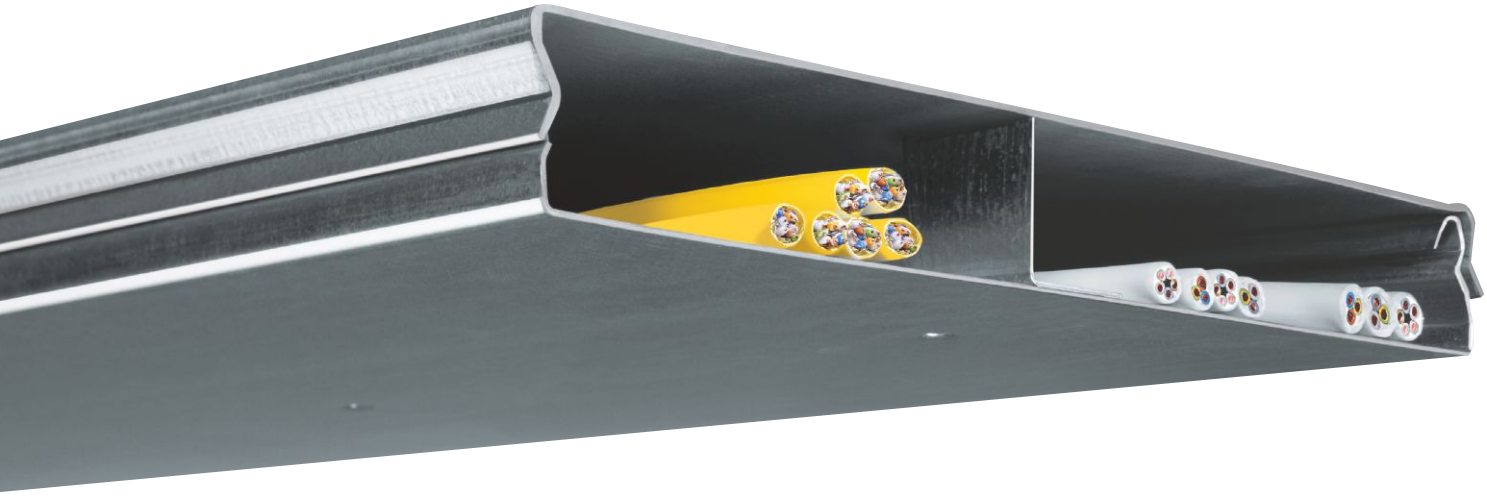
The quick installation system for every application
The flexible solution for all types of screed delivers impressive and practical installation advantages: Pre-assembled underfloor trunking enables quick and easy installation at the construction site, and the snapped-on trunking covers can easily be taken off before the screed is poured to allow simple insertion of the lines from above – rendering complex cable drawing-in processes completely unnecessary. And because all underfloor trunking and junction boxes are made of zinc-plated steel plate in accordance with DIN EN 10327, the entire system is perfectly protected against corrosion.



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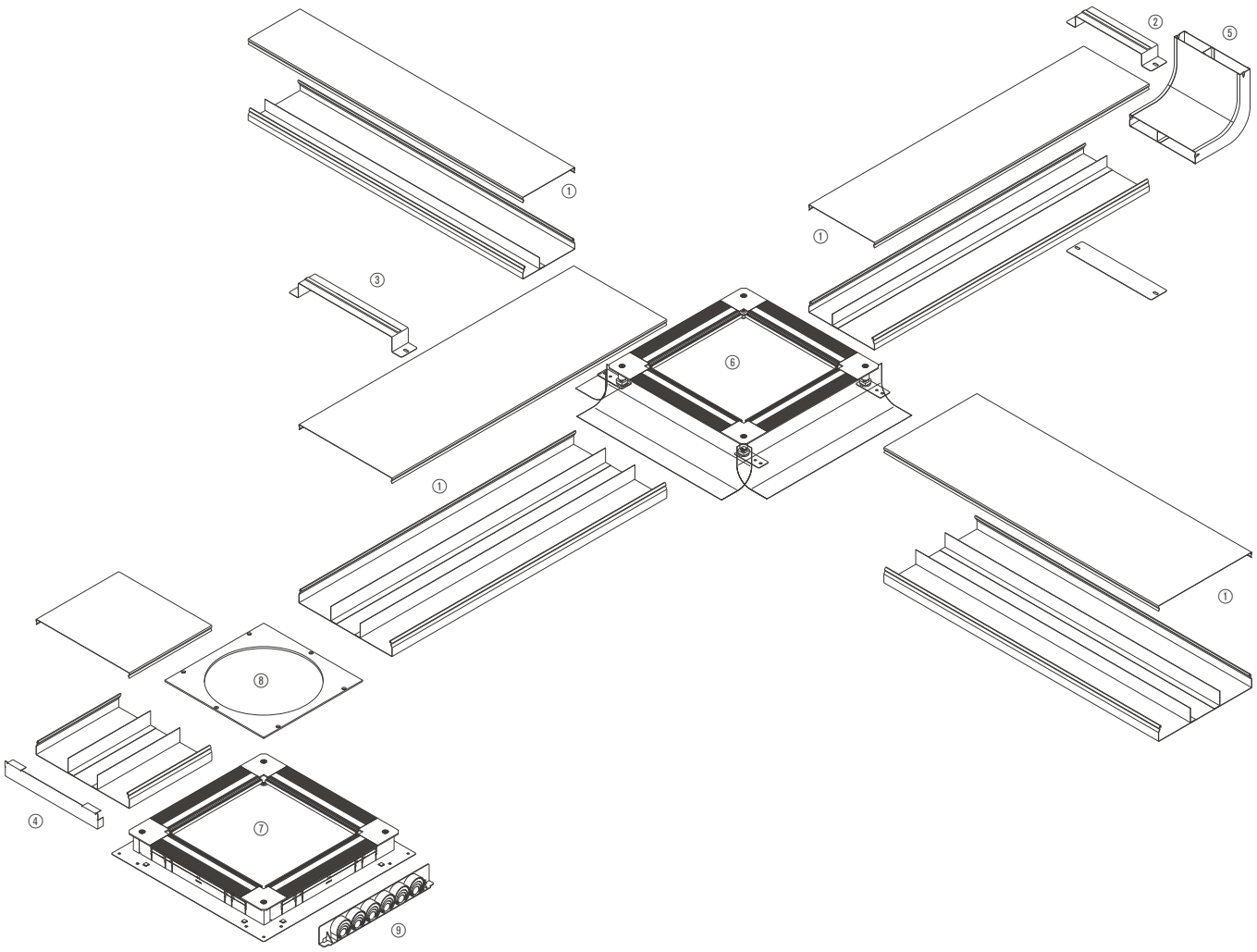

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① Basic profile comprising Upper and lower part

② Clamp

③ Bracket

④ End bracket

⑤ Vertical elbow

⑥ Universal junction box with foil casing

⑦ Universal junction box with steel plate casing

⑧ Fitting frame

⑨ Pipe inlet

Trunkings	Trunking width mm	Trunking height mm	Variant	Compartment dimensions mm	Usable cross-section cm²	Max. Line allocation Ø 11 mm, half full	Page
UK1900282	190	28	2 compartments	75 / 115	53.2	21 (8 / 13)	1.4
UK1900283	190	28	3 compartments	60 / 70 / 60	53.2	20 (6 / 8 / 6)	1.4
UK1900382	190	38	2 compartments	75 / 115	72.2	29 (11 / 18)	1.4
UK1900383	190	38	3 compartments	60 / 70 / 60	72.2	28 (9 / 10 / 9)	1.4
UK1900482	190	48	2 compartments	75 / 115	91.2	36 (14 / 22)	1.4
UK1900483	190	48	3 compartments	60 / 70 / 60	91.2	35 (11 / 13 / 11)	1.4
UK2400282	240	28	2 compartments	100 / 140	67.2	27 (11 / 16)	1.6
UK2400283	240	28	3 compartments	85 / 70 / 85	67.2	26 (9 / 8 / 9)	1.6
UK2400382	240	38	2 compartments	100 / 140	91.2	36 (15 / 21)	1.6
UK2400383	240	38	3 compartments	85 / 70 / 85	91.2	36 (13 / 10 / 13)	1.6
UK2400482	240	48	2 compartments	100 / 140	115.2	46 (19 / 27)	1.6
UK2400483	240	48	3 compartments	85 / 70 / 85	115.2	45 (16 / 13 / 16)	1.6
UK3400282	340	28	2 compartments	140 / 200	95.2	39 (16 / 23)	1.8
UK3400283	340	28	3 compartments	115 / 110 / 115	95.2	38 (13 / 12 / 13)	1.8
UK3400382	340	38	2 compartments	140 / 200	129.2	52 (21 / 31)	1.8
UK3400383	340	38	3 compartments	115 / 110 / 115	129.2	53 (18 / 17 / 18)	1.8
UK3400482	340	48	2 compartments	140 / 200	163.2	66 (27 / 39)	1.8
UK3400483	340	48	3 compartments	115 / 110 / 115	163.2	65 (22 / 21 / 22)	1.8

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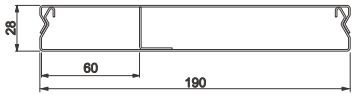
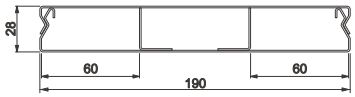
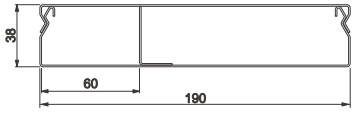
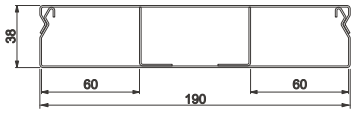
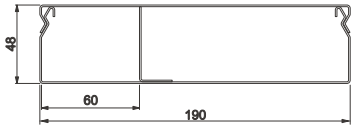
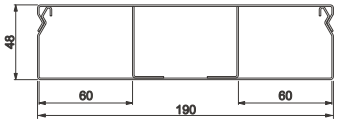
Screed-covered trunking system, trunking width 190 mm

- Underfloor trunking UK compliant with DIN EN 50085-1 and 2-2 for screed-covered installation, for installation on bare floor
- Line routing is made quick and easy thanks to the removable covers.

Standard length
2000 mm

Material
Galvanised sheet metal, Galvanised in accordance with DIN EN 10327

Material thickness
Upper part 1.25 mm
Lower part 1.0 mm

	Basic profile Sheet metal	Trunking height mm
UK190282 	**UK190282** PU 2 m	28
UK190283 	**UK190283** PU 2 m	28
UK190382 	**UK190382** PU 2 m	38
UK190383 	**UK190383** PU 2 m	38
UK190482 	**UK190482** PU 2 m	48
UK190483 	**UK190483** PU 2 m	48

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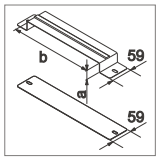
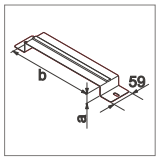
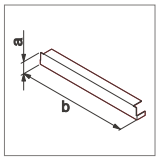


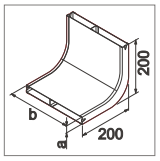
Clamp
Sheet metal



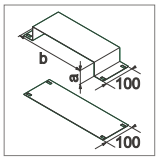
Bracket
Sheet metal



End bracket
Sheet metal



Vertical elbow
Sheet metal



Expansion bushing
Sheet metal

UKS190280 PU 20 pc	**UKB190280** PU 20 pc	**UKE190280** PU 20 pc	**UKK190282** PU 1 pc	**UKM190280** PU 20 pc
Dim. a = 28 mm Dim. b = 190 mm	Dim. a = 28 mm Dim. b = 190 mm	Dim. a = 28 mm Dim. b = 190 mm	Dim. a = 28 mm Dim. b = 190 mm	Dim. a = 28 mm Dim. b = 190 mm
UKS190280 PU 20 pc	**UKB190280** PU 20 pc	**UKE190280** PU 20 pc	**UKK190283** PU 1 pc	**UKM190280** PU 20 pc
Dim. a = 28 mm Dim. b = 190 mm	Dim. a = 28 mm Dim. b = 190 mm	Dim. a = 28 mm Dim. b = 190 mm	Dim. a = 28 mm Dim. b = 190 mm	Dim. a = 28 mm Dim. b = 190 mm
UKS190380 PU 20 pc	**UKB190380** PU 20 pc	**UKE190380** PU 20 pc	**UKK190382** PU 1 pc	**UKM190380** PU 20 pc
Dim. a = 38 mm Dim. b = 190 mm	Dim. a = 38 mm Dim. b = 190 mm	Dim. a = 38 mm Dim. b = 190 mm	Dim. a = 38 mm Dim. b = 190 mm	Dim. a = 38 mm Dim. b = 190 mm
UKS190380 PU 20 pc	**UKB190380** PU 20 pc	**UKE190380** PU 20 pc	**UKK190383** PU 1 pc	**UKM190380** PU 20 pc
Dim. a = 38 mm Dim. b = 190 mm	Dim. a = 38 mm Dim. b = 190 mm	Dim. a = 38 mm Dim. b = 190 mm	Dim. a = 38 mm Dim. b = 190 mm	Dim. a = 38 mm Dim. b = 190 mm
UKS190480 PU 20 pc	**UKB190480** PU 20 pc	**UKE190480** PU 20 pc	**UKK190482** PU 1 pc	**UKM190480** PU 20 pc
Dim. a = 48 mm Dim. b = 190 mm	Dim. a = 48 mm Dim. b = 190 mm	Dim. a = 48 mm Dim. b = 190 mm	Dim. a = 48 mm Dim. b = 190 mm	Dim. a = 48 mm Dim. b = 190 mm
UKS190480 PU 20 pc	**UKB190480** PU 20 pc	**UKE190480** PU 20 pc	**UKK190483** PU 1 pc	**UKM190480** PU 20 pc
Dim. a = 48 mm Dim. b = 190 mm	Dim. a = 48 mm Dim. b = 190 mm	Dim. a = 48 mm Dim. b = 190 mm	Dim. a = 48 mm Dim. b = 190 mm	Dim. a = 48 mm Dim. b = 190 mm

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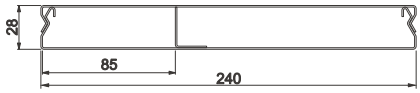
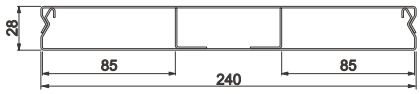
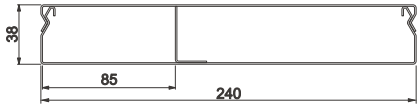
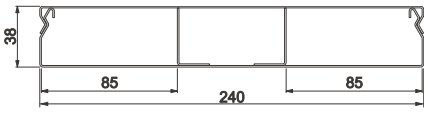
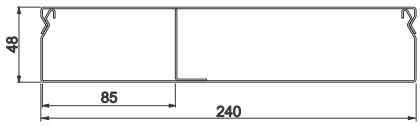
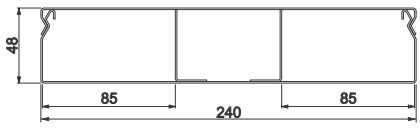
Screed-covered trunking system, trunking width 240 mm

- Underfloor trunking UK compliant with DIN EN 50085-1 and 2-2 for screed-covered installation, for installation on bare floor
- Line routing is made quick and easy thanks to the removable upper parts.

Standard length
2000 mm

Material
Galvanised sheet metal, Galvanised in accordance with DIN EN 10327

Material thickness
Upper part 1.25 mm
Lower part 1.0 mm

	Basic profile Sheet metal	Trunking height mm
UK240282 	**UK240282** PU 2 m	28
UK240283 	**UK240283** PU 2 m	28
UK240382 	**UK240382** PU 2 m	38
UK240383 	**UK240383** PU 2 m	38
UK240482 	**UK240482** PU 2 m	48
UK240483 	**UK240483** PU 2 m	48

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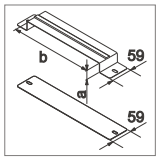


Clamp
Sheet metal

UKS240280
PU 20 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKS240280
PU 20 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKS240380
PU 20 pc

Dim. a = 38 mm
Dim. b = 240 mm

UKS240380
PU 20 pc

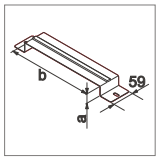
Dim. a = 38 mm
Dim. b = 240 mm

UKS240480
PU 20 pc

Dim. a = 48 mm
Dim. b = 240 mm

UKS240480
PU 20 pc

Dim. a = 48 mm
Dim. b = 240 mm



Bracket
Sheet metal

UKB240280
PU 20 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKB240280
PU 20 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKB240380
PU 20 pc

Dim. a = 38 mm
Dim. b = 240 mm

UKB240380
PU 20 pc

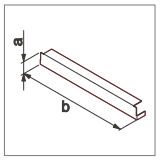
Dim. a = 38 mm
Dim. b = 240 mm

UKB240480
PU 20 pc

Dim. a = 48 mm
Dim. b = 240 mm

UKB240480
PU 20 pc

Dim. a = 48 mm
Dim. b = 240 mm



End bracket
Sheet metal

UKE240280
PU 20 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKE240280
PU 20 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKE240380
PU 20 pc

Dim. a = 38 mm
Dim. b = 240 mm

UKE240380
PU 20 pc

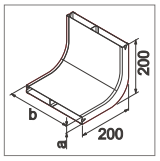
Dim. a = 38 mm
Dim. b = 240 mm

UKE240480
PU 20 pc

Dim. a = 48 mm
Dim. b = 240 mm

UKE240480
PU 20 pc

Dim. a = 48 mm
Dim. b = 240 mm



Vertical elbow
Sheet metal

UKK240282
PU 1 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKK240283
PU 1 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKK240382
PU 1 pc

Dim. a = 38 mm
Dim. b = 240 mm

UKK240383
PU 1 pc

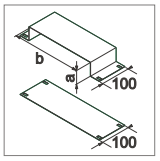
Dim. a = 38 mm
Dim. b = 240 mm

UKK240482
PU 1 pc

Dim. a = 48 mm
Dim. b = 240 mm

UKK240483
PU 1 pc

Dim. a = 48 mm
Dim. b = 240 mm



Expansion bushing
Sheet metal

UKM240280
PU 20 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKM240280
PU 20 pc

Dim. a = 28 mm
Dim. b = 240 mm

UKM240380
PU 20 pc

Dim. a = 38 mm
Dim. b = 240 mm

UKM240380
PU 20 pc

Dim. a = 38 mm
Dim. b = 240 mm

UKM240480
PU 20 pc

Dim. a = 48 mm
Dim. b = 240 mm

UKM240480
PU 20 pc

Dim. a = 48 mm
Dim. b = 240 mm

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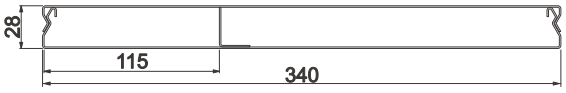
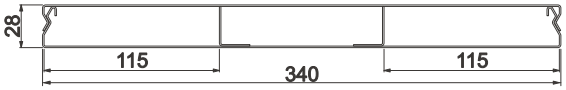
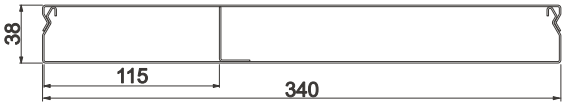
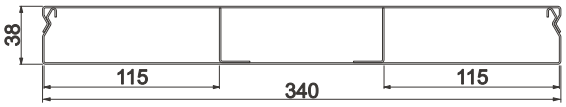
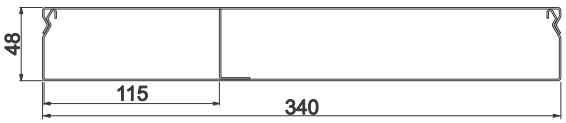
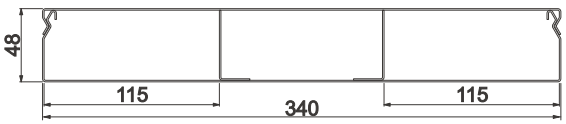
Screed-covered trunking system, trunking width 340 mm

- Underfloor trunking UK compliant with DIN EN 50085-1 and 2-2 for screed-covered installation, for installation on bare floor
- Line routing is made quick and easy thanks to the removable upper parts.

Standard length
2000 mm

Material
Galvanised sheet metal, Galvanised in accordance with DIN EN 10327

Material thickness
Upper part 1.25 mm
Lower part 1.0 mm

	Basic profile Sheet metal	Trunking height mm
UK340282 	**UK340282** PU 2 m	28
UK340283 	**UK340283** PU 2 m	28
UK340382 	**UK340382** PU 2 m	38
UK340383 	**UK340383** PU 2 m	38
UK340482 	**UK340482** PU 2 m	48
UK340483 	**UK340483** PU 2 m	48

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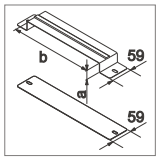


Clamp
Sheet metal

UKS340280
PU 20 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKS340280
PU 20 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKS340380
PU 20 pc

Dim. a = 38 mm
Dim. b = 340 mm

UKS340380
PU 20 pc

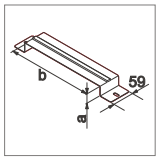
Dim. a = 38 mm
Dim. b = 340 mm

UKS340480
PU 20 pc

Dim. a = 48 mm
Dim. b = 340 mm

UKS340480
PU 20 pc

Dim. a = 48 mm
Dim. b = 340 mm



Bracket
Sheet metal

UKB340280
PU 20 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKB340280
PU 20 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKB340380
PU 20 pc

Dim. a = 38 mm
Dim. b = 340 mm

UKB340380
PU 20 pc

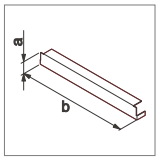
Dim. a = 38 mm
Dim. b = 340 mm

UKB340480
PU 20 pc

Dim. a = 48 mm
Dim. b = 340 mm

UKB340480
PU 20 pc

Dim. a = 48 mm
Dim. b = 340 mm



End bracket
Sheet metal

UKE340280
PU 20 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKE340280
PU 20 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKE340380
PU 20 pc

Dim. a = 38 mm
Dim. b = 340 mm

UKE340380
PU 20 pc

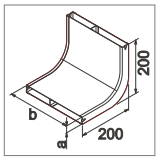
Dim. a = 38 mm
Dim. b = 340 mm

UKE340480
PU 20 pc

Dim. a = 48 mm
Dim. b = 340 mm

UKE340480
PU 20 pc

Dim. a = 48 mm
Dim. b = 340 mm



Vertical elbow
Sheet metal

UKK340282
PU 1 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKK340283
PU 1 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKK340382
PU 1 pc

Dim. a = 38 mm
Dim. b = 340 mm

UKK340383
PU 1 pc

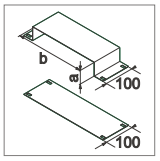
Dim. a = 38 mm
Dim. b = 340 mm

UKK340482
PU 1 pc

Dim. a = 48 mm
Dim. b = 340 mm

UKK340483
PU 1 pc

Dim. a = 48 mm
Dim. b = 340 mm



Expansion bushing
Sheet metal

UKM340280
PU 20 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKM340280
PU 20 pc

Dim. a = 28 mm
Dim. b = 340 mm

UKM340380
PU 20 pc

Dim. a = 38 mm
Dim. b = 340 mm

UKM340380
PU 20 pc

Dim. a = 38 mm
Dim. b = 340 mm

UKM340480
PU 20 pc

Dim. a = 48 mm
Dim. b = 340 mm

UKM340480
PU 20 pc

Dim. a = 48 mm
Dim. b = 340 mm

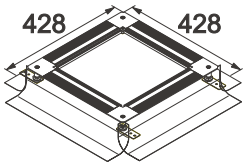
- Underfloor universal junction box in accordance with DIN EN 50085-1 and -2-2
- With internal stepless height adjustment
- With bottom plate and flexible transparent casing for installation in the screed layer
- Connection of underfloor trunking could not be easier – simply cut the foil with scissors or a knife
- Suitable for the mounting of installation units via a fitting frame (to be ordered separately)
- With factory-fitted footfall noise insulation and height-adjustment set screws
- Height-adjustable from the minimum installation height

▶ from page 1.15

UDB2120170

Universal junction box with bottom plate, size 2

Properties:
- For max. 4 sets of trunking with a nominal width of 240 mm

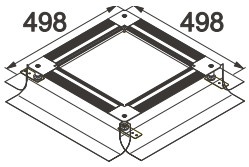


Designation	Height adjustment range [mm]	PU	Order no.
Underfloor box with bottom plate size 2	50-80	8	**UDB2050080**
Underfloor box with bottom plate size 2	75-125	5	**UDB2075125**
Underfloor box with bottom plate size 2	120-170	9	**UDB2120170**
Underfloor box with bottom plate size 2	165-215	5	**UDB2165215**
Underfloor box with bottom plate size 2	215-265	5	**UDB2215265**

UDB3120170

Universal junction box with bottom plate, size 3

Properties:
- For max. 4 sets of trunking with a nominal width of 340 mm



Designation	Height adjustment range [mm]	PU	Order no.
Underfloor box with bottom plate size 3	50-80	8	**UDB3050080**
Underfloor box with bottom plate size 3	75-125	5	**UDB3075125**
Underfloor box with bottom plate size 3	120-170	9	**UDB3120170**
Underfloor box with bottom plate size 3	165-215	5	**UDB3165215**
Underfloor box with bottom plate size 3	215-265	5	**UDB3215265**

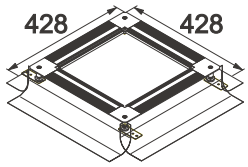
- Underfloor universal junction box in accordance with DIN EN 50085-1 and -2-2
- With internal stepless height adjustment
- With bottom plate and flexible transparent casing for installation in the screed layer
- Connection of underfloor trunking could not be easier – simply cut the foil with scissors or a knife
- Suitable for the mounting of installation units via a fitting frame (to be ordered separately)
- With factory-fitted footfall noise insulation and height-adjustment set screws
- Height-adjustable from the minimum installation height

▶ from page 1.15

UDH2120170

Universal junction box with retaining tabs, size 2

Properties:
- For max. 4 sets of trunking with a nominal width of 240 mm

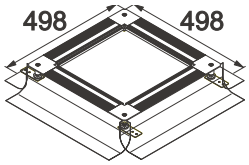


Designation	Height adjustment range [mm]	PU	Order no.
Underfloor box with retaining tabs size 2	50-80	8	**UDH2050080**
Underfloor box with retaining tabs size 2	75-125	5	**UDH2075125**
Underfloor box with retaining tabs size 2	120-170	9	**UDH2120170**
Underfloor box with retaining tabs size 2	165-215	5	**UDH2165215**
Underfloor box with retaining tabs size 2	215-265	5	**UDH2215265**

UDH3120170

Universal junction box with retaining tabs, size 3

Properties:
- For max. 4 sets of trunking with a nominal width of 340 mm



Designation	Height adjustment range [mm]	PU	Order no.
Underfloor box with retaining tabs size 3	50-80	8	**UDH3050080**
Underfloor box with retaining tabs size 3	75-125	5	**UDH3075125**
Underfloor box with retaining tabs size 3	120-170	9	**UDH3120170**
Underfloor box with retaining tabs size 3	165-215	5	**UDH3165215**
Underfloor box with retaining tabs size 3	215-265	5	**UDH3215265**

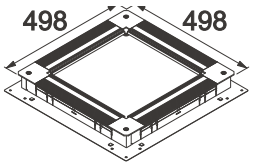
- Underfloor universal junction box in accordance with DIN EN 50085-1 and -2-2
- With internal stepless height adjustment
- With bottom plate and sheet metal casing for installation in the screed layer
- Suitable for the mounting of installation units via a fitting frame (to be ordered separately)
- The sheet metal walls have a perforation matching the cross-sectional pattern of the underfloor trunking UK.
- Minimum installation height 70 mm
- Height adjustment above 120 mm only possible with levelling frame

▶ from page 1.15

UDS3070120

Universal junction box with sheet metal casing size 3

Properties:
- For max. 4 sets of trunking with a nominal width of 340 mm

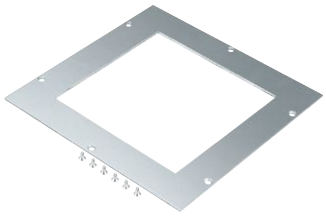


Designation	Height adjustment range [mm]	PU	Order no.
Underfloor box, sheet metal, size 3	70-120	3	**UDS3070120**

Material:
Galvanised sheet metal,
Galvanised in accordance with
DIN EN 10327

Material thickness:
4 mm

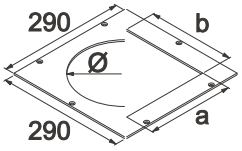
▶ from page 1.15



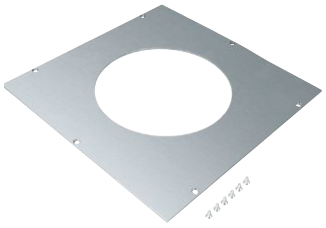
UDM2200Q06

Fitting frame size 2

Properties:
- For installation of service units or blank covers, as a base for pedestal boxes or as a blank cover
- Dimensions: 290 x 290 mm



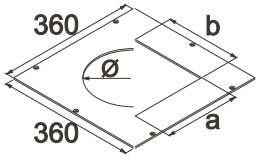
Designation	Ø [mm]	a [mm]	b [mm]	PU	Order no.
Fitting frame for underfloor box size 2 blank				5	**UDM2000BLD**
Fitting frame for underfloor box size 2 with blankings GBZ	50			10	**UDM2050GBZ**
Fitting frame for underfloor box size 2 with blankings E04		147	247	10	**UDM2147E04**
Fitting frame for underfloor box size 2 with blankings E09		200	253	10	**UDM2200E09**
Fitting frame for underfloor box size 2 with blankings Q06		200	200	10	**UDM2200Q06**
Fitting frame for underfloor box size 2 with blankings R06	215			10	**UDM2215R06**
Fitting frame for underfloor box size 2 with blankings Q12		244	244	10	**UDM2244Q12**



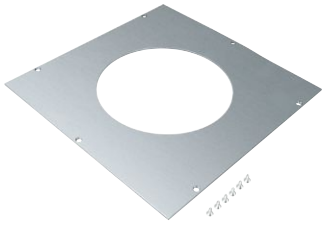
UDM3215R06

Fitting frame size 3

Properties:
- For installation of service units or blank covers, as a base for pedestal boxes or as a blank cover
- Dimensions: 360 x 360 mm



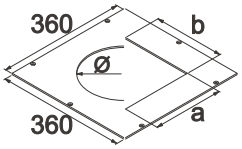
Designation	Ø [mm]	a [mm]	b [mm]	PU	Order no.
Fitting frame for underfloor box size 3 blank				5	**UDM3000BLD**
Fitting frame for underfloor box size 3 with blankings GBZ	50			10	**UDM3050GBZ**
Fitting frame for underfloor box size 3 with blankings E04		147	247	10	**UDM3147E04**
Fitting frame for underfloor box size 3 with blankings E09		200	253	10	**UDM3200E09**
Fitting frame for underfloor box size 3 with blankings Q06		200	200	10	**UDM3200Q06**
Fitting frame for underfloor box size 3 with blankings R06	215			10	**UDM3215R06**
Fitting frame for underfloor box size 3 with blankings Q12		244	244	10	**UDM3244Q12**
Fitting frame for underfloor box size 3 with blankings R10	275			10	**UDM3275R10**
Fitting frame for underfloor box size 3 with blankings Q08		294	294	10	**UDM3294Q08**
Fitting frame for underfloor box size 3 with blankings R12	306			10	**UDM3306R12**



UDM3215SLR06

Heavy-duty fitting frame size 3

Properties:
- For installation of service units or blank covers, as a base for pedestal boxes or as a blank cover
- Height-adjustment set screws need to be ordered separately
- Dimensions: 360 x 360 mm

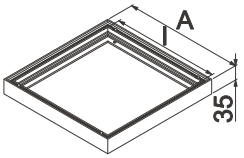


Designation	Ø [mm]	a [mm]	b [mm]	PU	Order no.
Heavy-duty fitting frame with blankings Q06		200	200	1	**UDM3200SLQ06**
Heavy-duty fitting frame with blankings Q12		244	244	1	**UDM3244SLQ12**
Heavy-duty fitting frame with blankings R06	215			1	**UDM3215SLR06**
Heavy-duty fitting frame with blankings R12	306			1	**UDM3306SLR12**

UDAR335

Levelling frame

Properties:
- Levelling frame made of aluminium for fitting frame UDM
- For adjustment to screed layers with a height of more than 35 mm



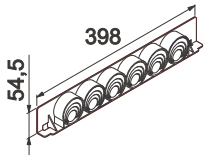
Designation	Outer dimension A [mm]	Internal dimension I [mm]	PU	Order no.
Levelling frame size 2 height 35 mm	296 x 296	290 x 290	1	**UDAR235**
Levelling frame size 3 height 35 mm	366 x 366	360 x 360	1	**UDAR335**

UDS32050RE

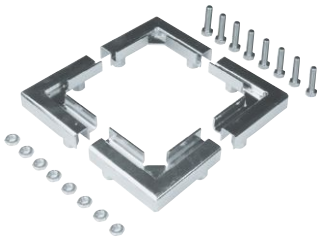
Pipe inlet for universal junction box with bottom plate and sheet metal casing

Properties:
- Pipe inlet made of plastic, for connection of electrical installation pipes to underfloor box UDS3070120
- With pre-stamped sealing plugs for pipe diameters 20, 32, 40 and 50 mm

Material: Polyamide



Designation	PU	Order no.
Pipe inlet for underfloor box UDS3070120	260	**UDS32050RE**



UDSLS098

Heavy-duty frame

Properties:
- Heavy-duty frames are supplied as a set (with height-adjustment set screws)
- Suitable for use with universal junction boxes UDB, UDH, UDS size 3
- Heavy-duty frames can be subjected to loads of up to 20 kN in conjunction with heavy-duty fitting frames

Designation	Height adjustment range [mm]	PU	Order no.
Heavy-duty frame for screed height 073-098		4	**UDSLS098**
Heavy-duty frame for screed height 093-118		4	**UDSLS118**
Heavy-duty frame for screed height 113-138		4	**UDSLS138**
Heavy-duty frame for screed height 138-163		4	**UDSLS163**
Heavy-duty frame for screed height 158-183		4	**UDSLS183**
Heavy-duty frame for screed height 178-203		4	**UDSLS203**
Heavy-duty frame for screed height 198-223		4	**UDSLS223**

Underfloor trunking

Identifier	Type	Trunking width	Trunking height	Number of compartments
UK = underfloor trunking	W = basic profile E = end bracket B = bracket K = vertical elbow S = Clamp M = expansion bushing	X 190 = 190 mm 240 = 240 mm 340 = 340 mm	Y 28 = 28 mm 38 = 38 mm 48 = 48 mm	Z 0 = no compartments 2 = two compartments 3 = three compartments

Universal junction box

Identifier	Variant	Size	Height adjustment range
UD = underfloor junction box	X B = with bottom plate H = with retaining tabs S = with sheet metal casing	Y 2 = 428 x 428 mm 3 = 498 x 498 mm	Z 050080 = 50 - 80 mm 075125 = 75 - 125 mm 120170 = 120 - 170 mm 165215 = 165 - 215 mm 215265 = 215 - 265 mm For version S only: 070120 = 70 - 120 mm

Fitting frame

Identifier	Variant	Size	Size and type of blankings
UD = underfloor junction box	X M = fitting frame	Y 2 = 290 x 290 mm 3 = 360 x 360 mm	Z 000BLD = no blanking 050GBZ = blanking GBZ round 50 mm 215R06 = blanking R06 round 215 mm 275R10 = blanking R10 round 275 mm 306R12 = blanking R12 round 306 mm 200Q06 = blanking Q06 200 x 200 mm 294Q08 = blanking Q08 294 x 294 mm 244Q12 = blanking Q12 244 x 244 mm 147E04 = blanking E04 147 x 247 mm 200E09 = blanking E09 200 x 253 mm

Levelling frame and pipe inlet

Identifier	Variant	Size	Elevation/pre-stamping	Type
UD = underfloor junction box	W AR = levelling frame S = with sheet metal casing	X 2 = 428 x 428 mm 3 = 498 x 498 mm 2050 = pre-stamping 20 - 32 - 40 - 50 mm	Y 35 = 35 mm	 RE = pipe insert

Heavy-duty frame and fitting frame for heavy loads

Identifier	Variant	Screed height range
UD = underfloor junction box	Y SLS = heavy-duty frame	Z 098 = 073 - 098 mm 118 = 093 - 118 mm 138 = 113 - 138 mm 163 = 138 - 163 mm 183 = 158 - 183 mm 203 = 178 - 203 mm 223 = 198 - 223 mm

Identifier	Variant	Size of blanking	Type	Type of blanking
UD = underfloor junction box	W M3 = fitting frame size 3	X 200 = 200 x 200 mm 244 = 244 x 240 mm 215 = round 215 mm 306 = round 306 mm	Y SL = heavy-duty	Z Q06 = blanking Q06 200 x 200 mm Q12 = blanking Q12 244 x 244 mm R06 = blanking R06 round 215 mm R12 = blanking R12 round 306 mm

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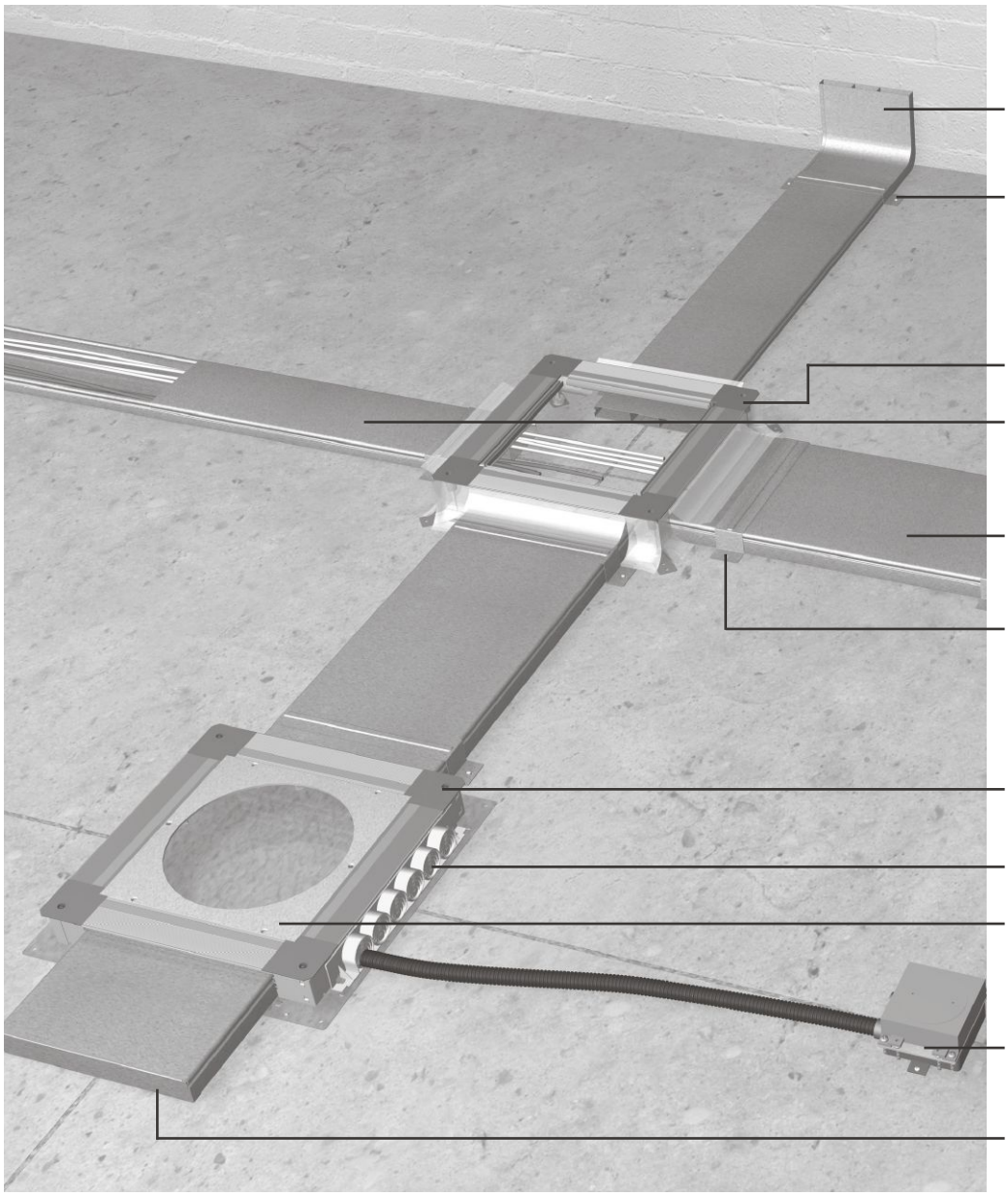
Screed-covered trunking systems

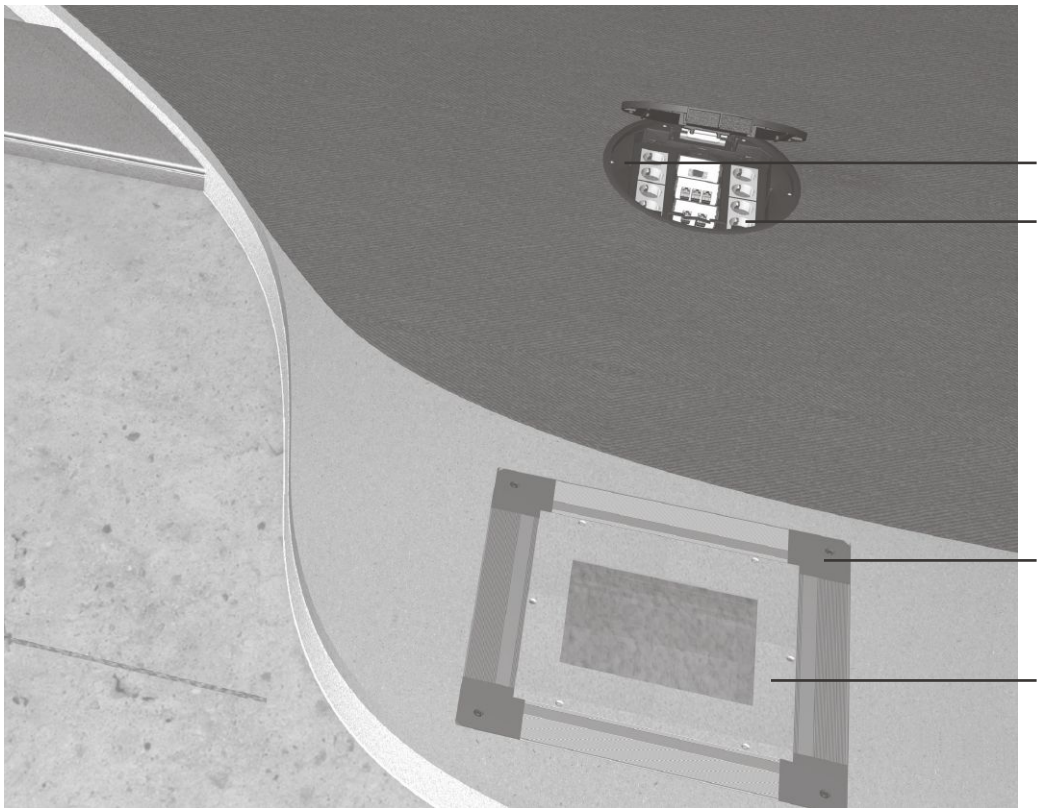


Advantages at a glance

Quick and easy installation
The pre-fabricated underfloor trunking system with accessories enables quick and easy installation on-site.

Robust quality
All underfloor trunking and junction boxes are made of galvanised sheet metal in accordance with DIN EN 10327 and are therefore protected against corrosion.

Easy cable routing and installation
The covers of the underfloor trunking are snapped on and can be taken off before the screed is poured. Cables can be placed in the open trunking from above. This means that there is no need for the complicated process of pulling the wiring into the trunking. This facilitates a convenient, space-saving, orderly and bundled installation of cables.



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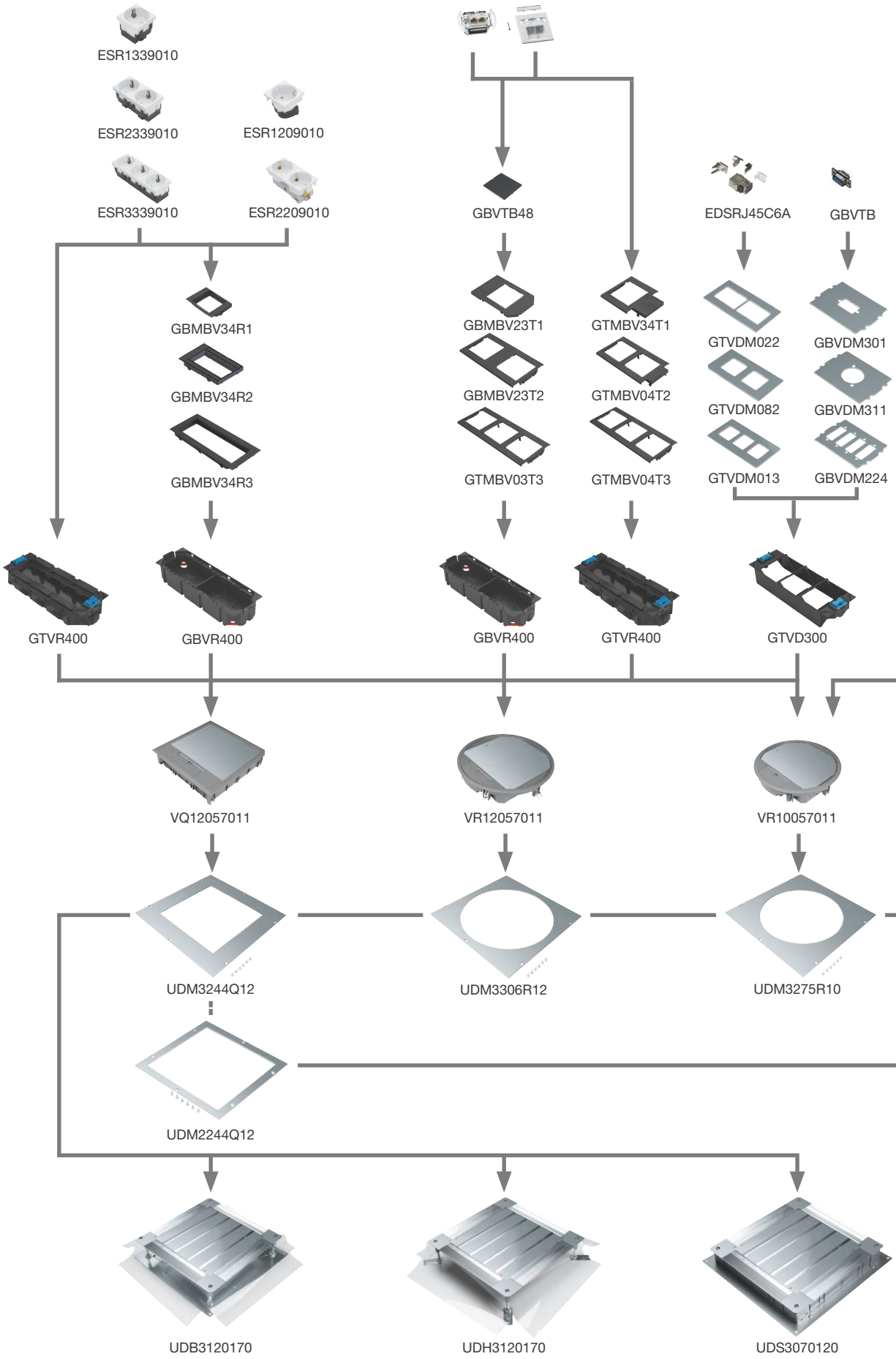
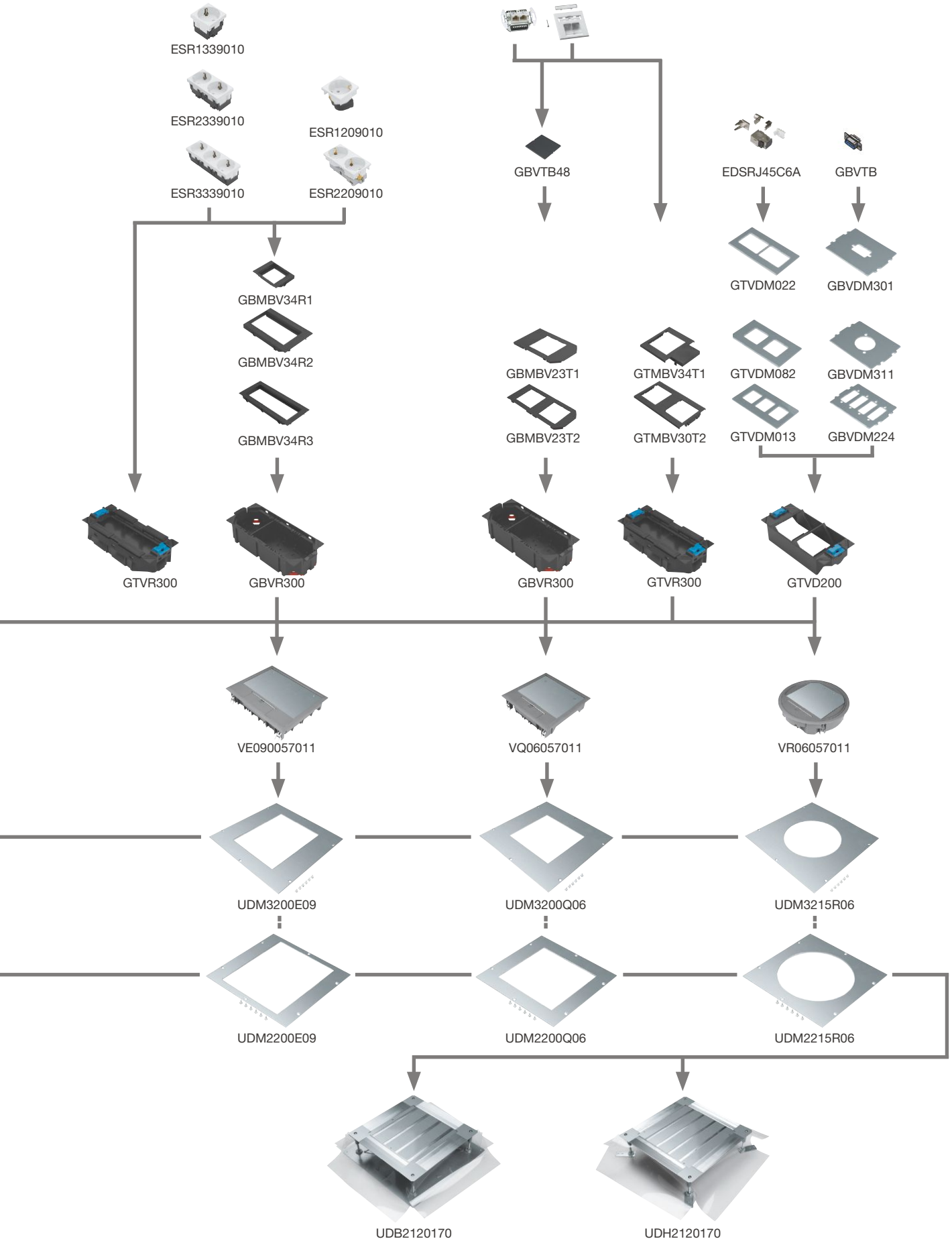
Selection of a number of possible combinations

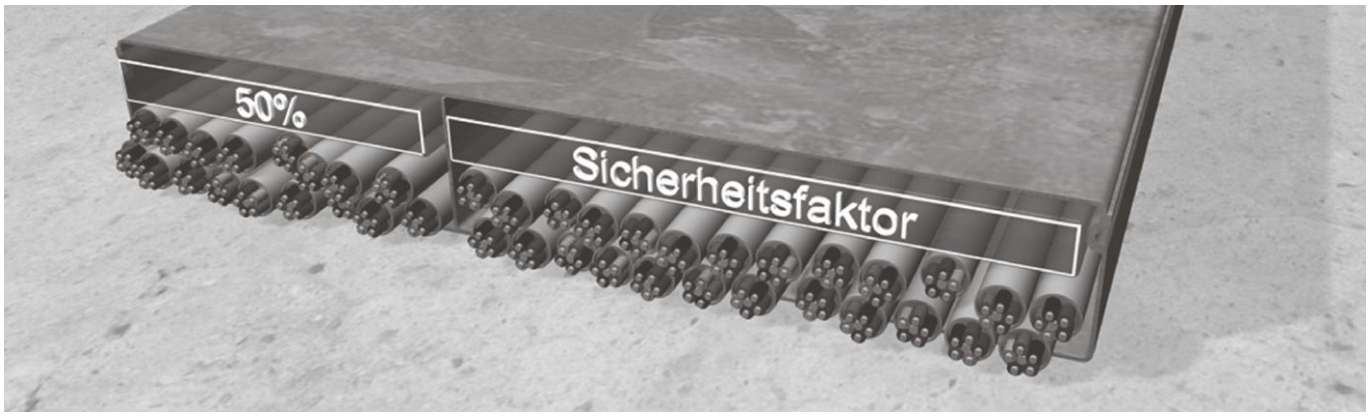



ESR1339010
ESR2339010
ESR1209010
ESR3339010
ESR2209010
GBMBV34R1
GBMBV34R2
GBMBV34R3
GBVTB48
EDSRJ45C6A
GBVTB
GTVDM022
GBVDM301
GBMBV23T1
GTMBV34T1
GTVDM082
GBVDM311
GBMBV23T2
GTMBV30T2
GTVDM013
GBVDM224
GTVR300
GBVR300
GBVR300
GTVR300
GTVD200
VE090057011
VQ06057011
VR06057011
UDM3200E09
UDM3200Q06
UDM3215R06
UDM2200E09
UDM2200Q06
UDM2215R06
UDB2120170
UDH2120170

Determining the line volume

The line volume must be known in order to define the correct trunking size. In practice, lines never run perfectly in parallel and side-by-side in a way that would ensure maximum space utilisation. This is why the formula $(d)^2$, i.e. the diameter squared, must be applied. To ensure sufficient space for possible later retrofitting, trunking ducts should only be filled to 50% of their volume. This also makes it easier to pull the lines into the trunking. Also, it must be noted that the calculation does not take into account bottom troughs and outlets that possibly interrupt the line path. In practice, energy and data lines are routed separately from each other in the trunking. Partition walls separate the trunking into several compartments. If this applies to your installation, then calculate the volume required for each compartment separately.

The line volume configurator provided at www.hager.de will help you make the necessary calculations. The values calculated are for guide purposes only. Heat dissipation caused by lines carrying high currents must be taken into account. Compliance with all applicable regulations such as DIN VDE 0100 must be ensured.



Compartment width mm	Nominal height of trunking mm	Usable cross-section cm²	Line diameter in mm															
			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
60	28	16.8	33	23	17	13	10	8	6	5	4	4	3	3	2	2	2	2
	38	22.8	45	31	23	17	14	11	9	7	6	5	5	4	3	3	3	2
	48	28.8	57	40	29	22	17	14	11	10	8	7	6	5	4	4	3	3
70	28	19.6	39	27	20	15	12	9	8	6	5	5	4	3	3	3	2	2
	38	26.6	53	36	27	20	16	13	10	9	7	6	5	5	4	4	3	3
	48	33.6	67	46	34	26	20	16	13	11	9	8	7	6	5	5	4	4
75	28	21.0	42	29	21	16	12	10	8	7	6	5	4	4	3	3	2	2
	38	28.5	57	39	29	22	17	14	11	9	8	7	6	5	4	4	3	3
	48	36.0	72	50	36	28	22	18	14	12	10	9	8	7	6	5	4	4
85	28	23.8	47	33	24	18	14	11	9	8	7	6	5	4	4	3	3	2
	38	32.3	64	44	32	25	19	16	13	11	9	8	7	6	5	4	4	4
	48	40.8	81	56	41	31	25	20	16	14	12	10	9	7	7	6	5	5
100	28	28.0	56	38	28	21	17	14	11	9	8	7	6	5	4	4	3	3
	38	38.0	76	52	38	29	23	19	15	13	11	9	8	7	6	5	5	4
	48	48.0	96	66	48	37	29	24	19	16	14	12	10	9	8	7	6	6
110	28	30.8	61	42	31	24	19	15	12	10	9	7	6	6	5	4	4	3
	38	41.8	83	58	42	32	25	20	17	14	12	10	9	8	7	6	5	5
	48	52.8	105	73	53	41	32	26	21	18	15	13	11	10	9	8	7	6
115	28	32.2	64	44	32	25	19	16	13	11	9	8	7	6	5	4	4	4
	38	43.7	87	60	44	34	26	21	18	15	12	11	9	8	7	6	6	5
	48	55.2	110	76	56	43	34	27	22	19	16	14	12	10	9	8	7	6
140	28	39.2	78	54	40	30	24	19	16	13	11	10	8	7	6	6	5	4
	38	53.2	106	73	54	41	32	26	21	18	15	13	11	10	9	8	7	6
	48	67.2	134	93	68	52	41	33	27	23	19	17	14	13	11	10	9	8

Application

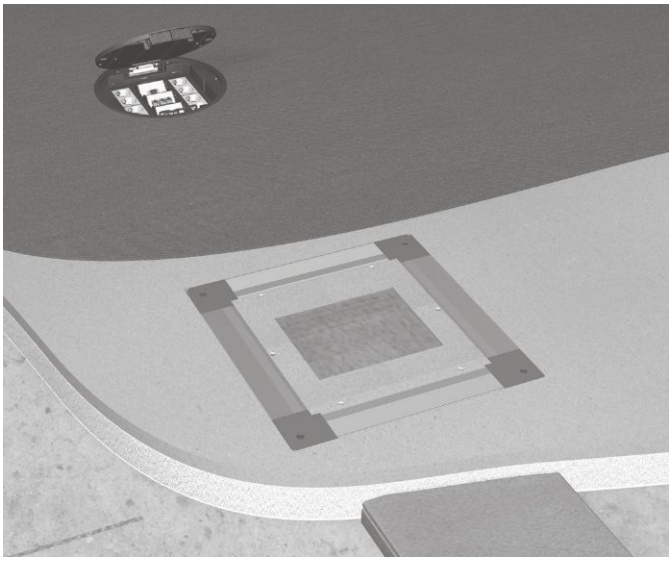
The screed-embedded underfloor trunking system can be used with any kind of screed such as cement screed, floating screed, flowing screed, or, if special provisions are made, hot screed/mastic asphalt. The screed-embedded trunking system is suitable for use in office, administration or exhibition areas, but also in residential buildings. Anywhere, in fact, where sturdy construction is valued.

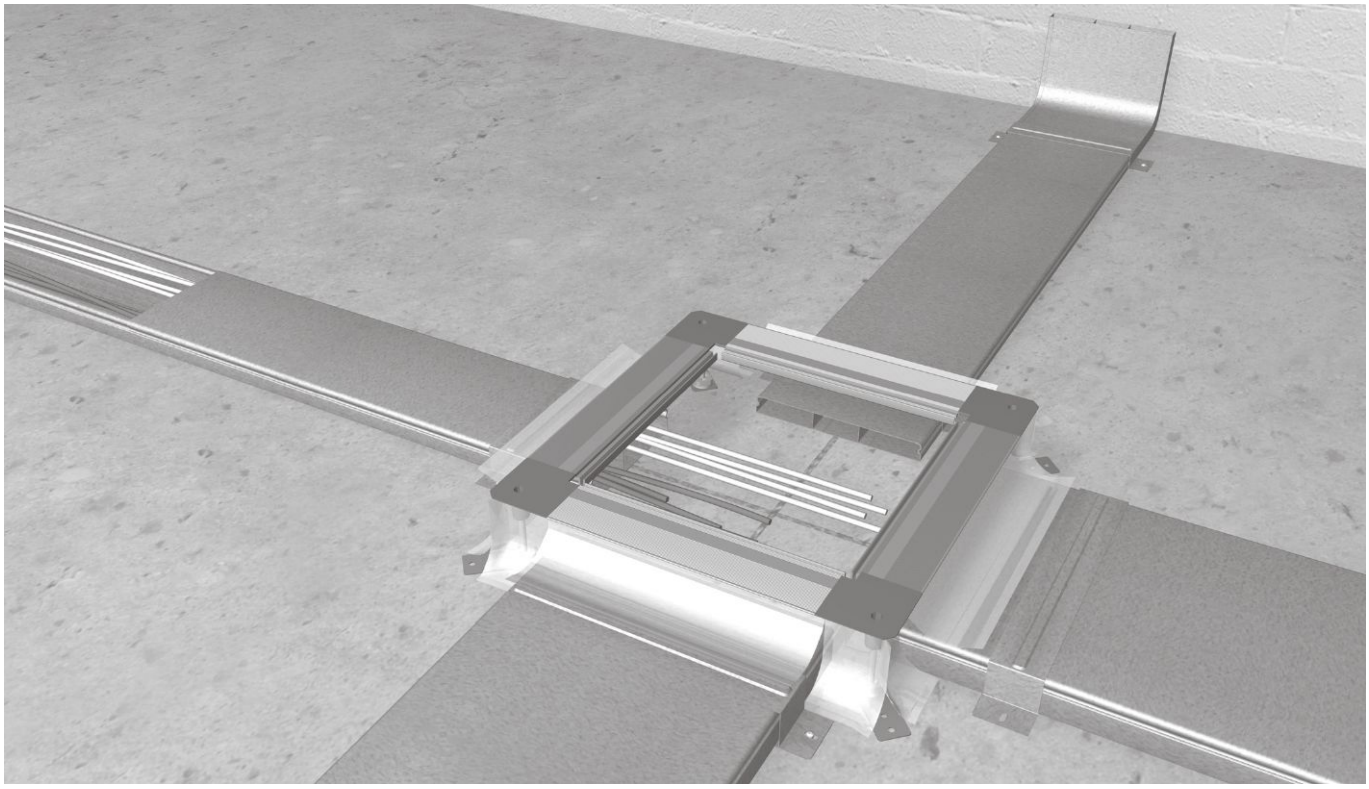
How it works

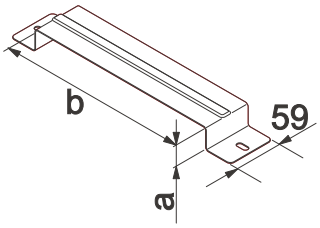
Our probably most widely used underfloor trunking system is very simple yet surprisingly diverse when it comes to potential applications. Junction boxes are connected to each other via underfloor trunkings to form networks. They ensure a structured supply and offer access to energy, data and telecommunication lines through the floor.

Users can customise their installation to suit individual requirements thanks to the large range of different trunking cross-sections that is available. Afterwards the screed is installed up to the upper edge of the junction boxes. Depending on the properties of the floor surface (usually a bare concrete floor), junction boxes with pre-stamped trunking inlets made completely of sheet metal or junction boxes with foil casing and factory-fitted footfall sound insulation can be used.

With both junction box variants, stepless height adjustment can be performed via the height adjustment screws that are accessible from above. The underfloor trunking is completely concealed once the screed has been poured. Then you can install service units or cassettes in the junction boxes, including sockets and data systems.







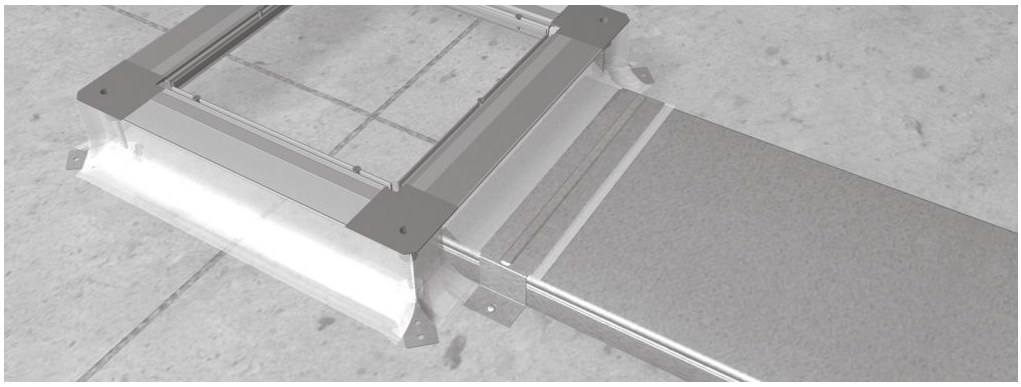
Bracket UKB

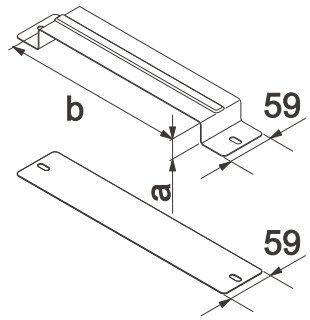
Bracket UKB for fastening the trunking onto the bare floor. One bracket is required for each trunking inlet in junction boxes. Any additional requirements due to local conditions should be calculated and ordered separately.

Material: DIN EN 10327
Galvanised sheet metal, **Material thickness:**
Galvanised in accordance with 0.90 mm

Order number	Dimensions b x a [mm]
UKB190280	190 x 28
UKB190380	190 x 38
UKB190480	190 x 48
UKB240280	240 x 28
UKB240380	240 x 38
UKB240480	240 x 48
UKB340280	340 x 28
UKB340380	340 x 38
UKB340480	340 x 48

Installation example



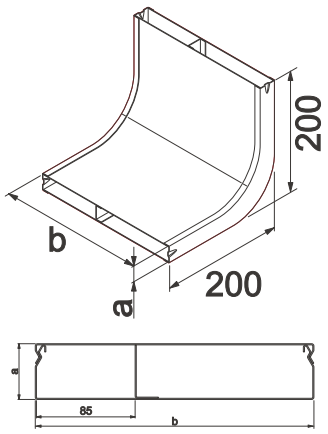


Clamp UKS

Clamp UKS for connection of trunking sections at the butt joints and for fastening the trunking. Equi-potential bonding is achieved by clamping in the ends of the trunking or the ends of the vertical elbow between the cover and lower part. We recommend an allowance of 0.5 clamps per metre of trunking. Any additional requirements due to local conditions should be calculated and ordered separately.

Material: DIN EN 10327
Galvanised sheet metal, **Material thickness:**
Galvanised in accordance with 0.90 mm

Order number	Dimensions b x a [mm]
UKS190280	190 x 28
UKS190380	190 x 38
UKS190480	190 x 48
UKS240280	240 x 28
UKS240380	240 x 38
UKS240480	240 x 48
UKS340280	340 x 28
UKS340380	340 x 38
UKS340480	340 x 48



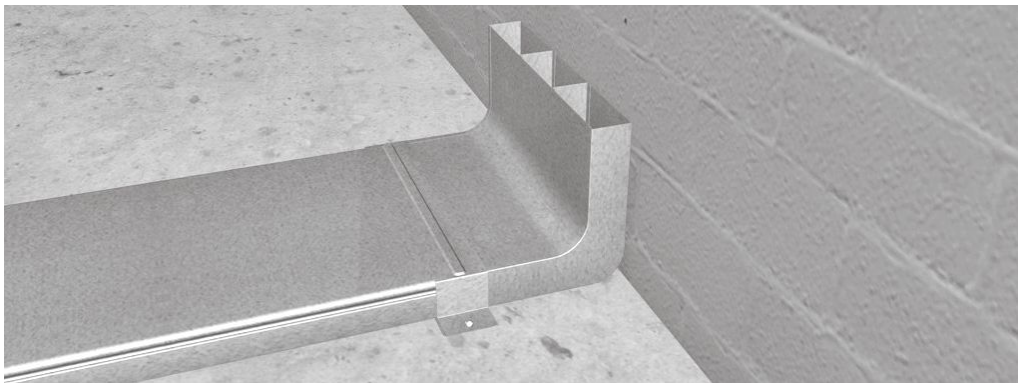
Vertical elbow UKK

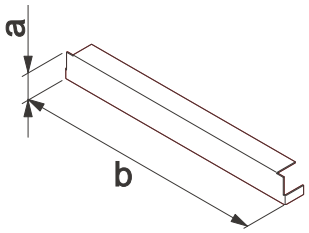
Vertical elbow UKK for routing transitions from horizontal to the vertical plane.
The connection between the vertical elbow and the trunking is made with a clamp.

Material: DIN EN 10327
Galvanised sheet metal, **Material thickness:**
Galvanised in accordance with 0.75 mm

Order number	Variant	Dimensions b x a [mm]	Dimensions of compartments
UKK190282	2 compartments	190 x 28	75 / 115
UKK190382	2 compartments	190 x 38	75 / 115
UKK190482	2 compartments	190 x 48	75 / 115
UKK190283	3 compartments	190 x 28	60 / 70 / 60
UKK190383	3 compartments	190 x 38	60 / 70 / 60
UKK190483	3 compartments	190 x 48	60 / 70 / 60
UKK240282	2 compartments	240 x 28	100 / 140
UKK240382	2 compartments	240 x 38	100 / 140
UKK240482	2 compartments	240 x 48	100 / 140
UKK240283	3 compartments	240 x 28	85 / 70 / 85
UKK240383	3 compartments	240 x 38	85 / 70 / 85
UKK240483	3 compartments	240 x 48	85 / 70 / 85
UKK340282	2 compartments	340 x 28	140 / 200
UKK340382	2 compartments	340 x 38	140 / 200
UKK340482	2 compartments	340 x 48	140 / 200
UKK340283	3 compartments	340 x 28	115 / 110 / 115
UKK340383	3 compartments	340 x 38	115 / 110 / 115
UKK340483	3 compartments	340 x 48	115 / 110 / 115

Installation example





End bracket UKE

End bracket for screed-embedded closed underfloor trunking.

Material: DIN EN 10327
Galvanised sheet metal, **Material thickness:**
Galvanised in accordance with 0.90 mm

Order number	Dimensions b x a [mm]
UKE190280	190 x 28
UKE190380	190 x 38
UKE190480	190 x 48
UKE240280	240 x 28
UKE240380	240 x 38
UKE240480	240 x 48
UKE340280	340 x 28
UKE340380	340 x 38
UKE340480	340 x 48

General instructions:

DIN standard
Please observe for screed overlap of trunkings according DIN 18560 "Screeds of building industry".

Earthing
System components must be included in the earthing measures according to DIN VDE 0100.

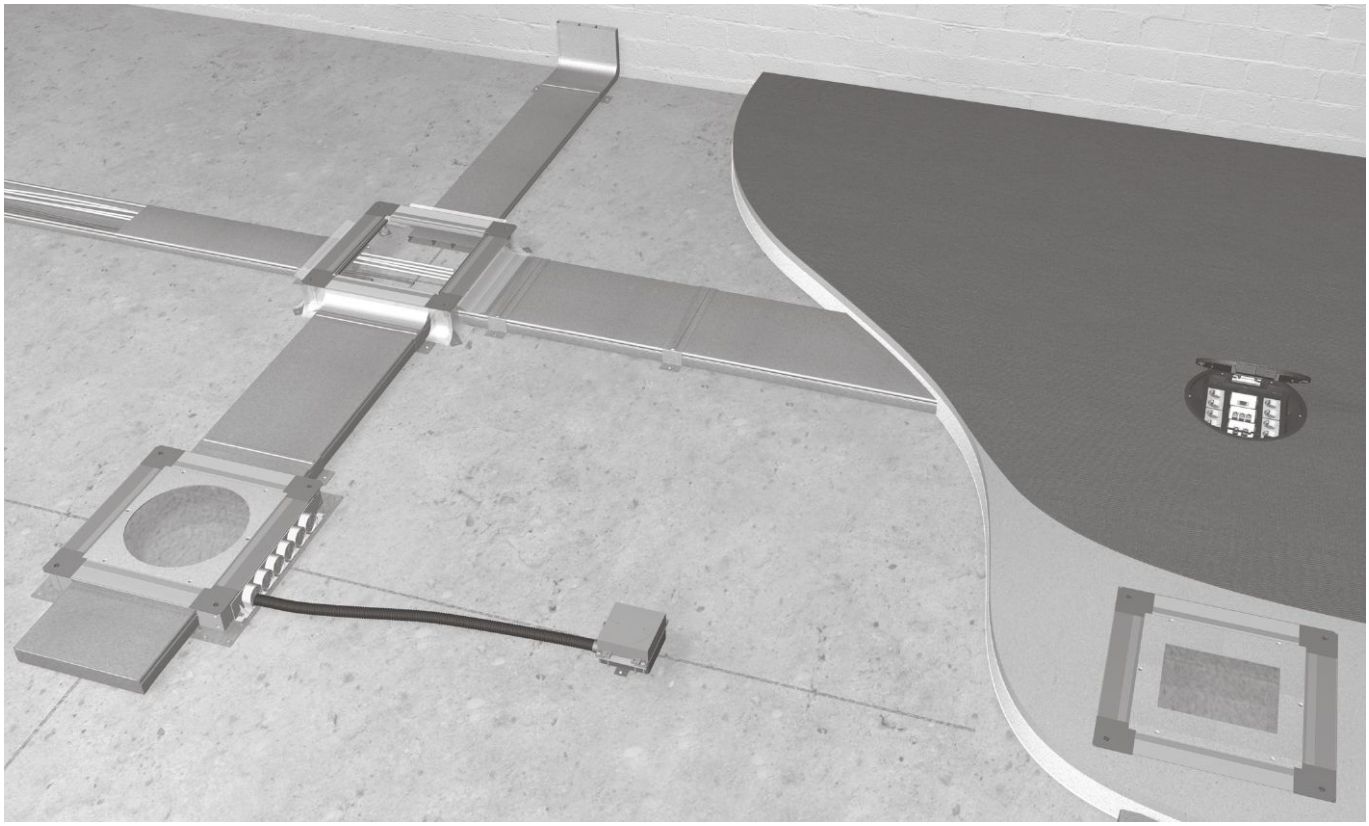
Support
Components must be supported to prevent deformation, if required.

Sealing
Trunking and universal junction boxes must be protected against screed ingress during installation.

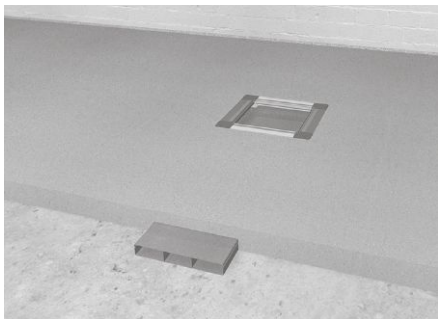
Curing
Do not walk or impose any mechanical load on the trunking system before the screed has hardened.

Protective covers
The protection lids may only be removed from the universal junction box and be replaced by the fitting frames immediately before installation of the flooring.

Conterminal trades
Observe the general information and the information concerning conterminal trades (screed layer, floor fitter).

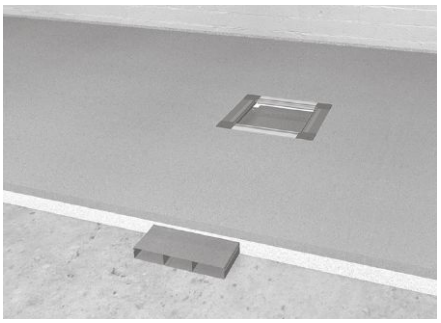


Installation in monolithic screed



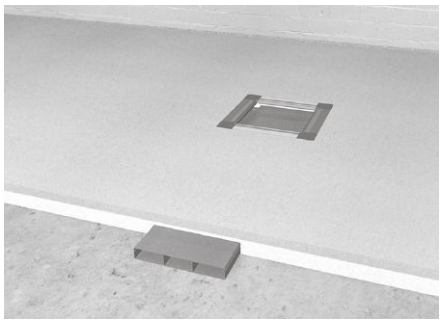
Disperse the cement screed directly onto the concrete slab and onto the underfloor trunkings.

Installation in floating floor screed



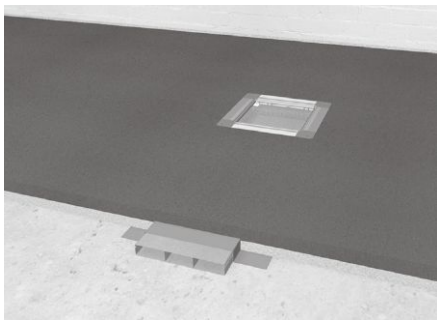
Cement screed is applied onto an insulating layer. The underfloor trunking is integrated in this insulation layer.

Installation in floating screed



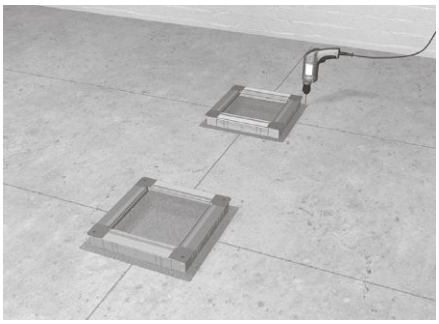
The installation of trunking and universal junction boxes is similar to the installation in cement screed. In addition, the system must be protected against the ingress of floating screed during installation.

Installation in hot screed (UDS3 only)



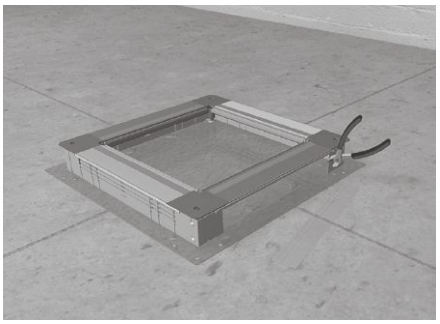
When casting hot screed or mastic asphalt temperatures of approx. 280 °C may occur. This requires trunking and universal junction boxes to be covered and insulated with bituminous corrugated board. Due to the high temperatures, lines must not be installed before the hot screed has completely cooled down.

Position the universal junction boxes according to the lay-out.



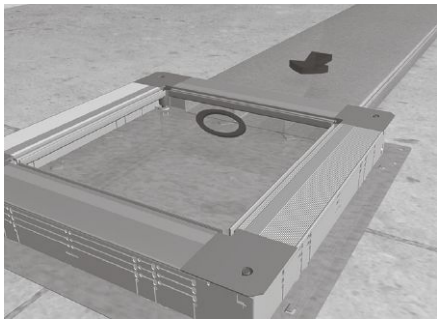
Position the universal junction boxes on the slab and secure them according to the lay-out.

Notch universal junction boxes UDS3



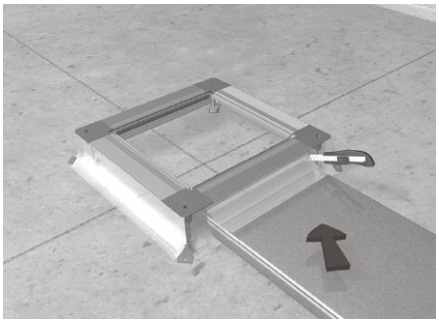
Create a notch in the corresponding sidewall of the universal junction box to connect the trunking. Use a wire cutter to cut out the panel along the perforation as required.

Connect the trunking to universal junction boxes UDS3



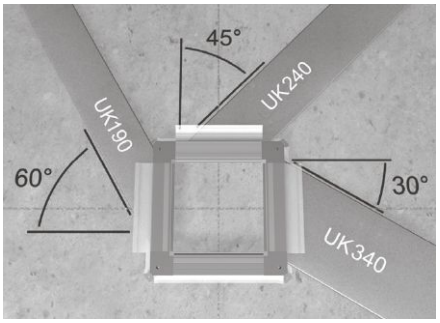
Insert the trunking through the notched side part and move it up to the stop at the bottom plate. The system must be protected by the customer against the ingress of liquid screed during installation.

Connect the trunking to universal junction box UDH



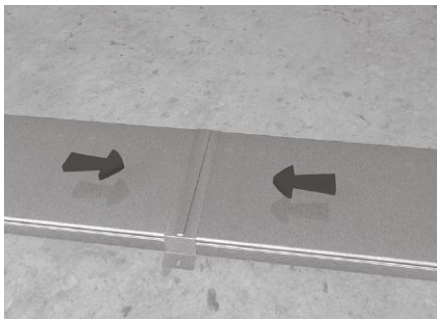
Insert the trunking under the flexible screed casing. Cut the flexible screed casing so that the trunking is enclosed with the foil. The system must be protected by the customer against the ingress of liquid screed during installation.

Bevel joints are possible



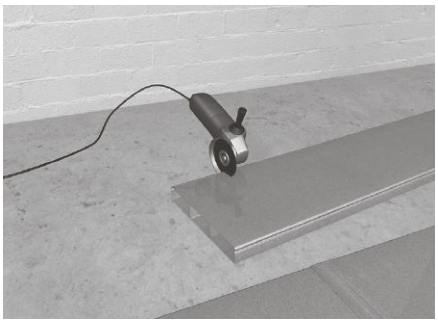
Universal junction boxes UDB3 and UDH3 allow trunking to be introduced at an angle as specified. This layout makes the drawing of cables more difficult. Up to 50° for junction box UDH2 and UK190 or up to 40° for UDH2 and UK240.

Lay the trunking



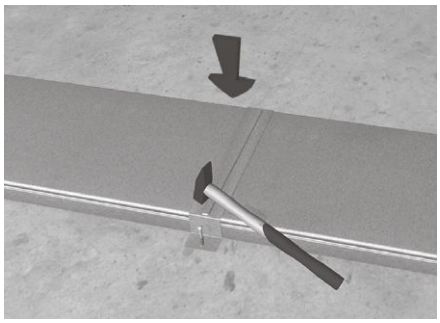
Lay the trunking segments edge to edge. The partition walls must be aligned.

Cut the trunking as required



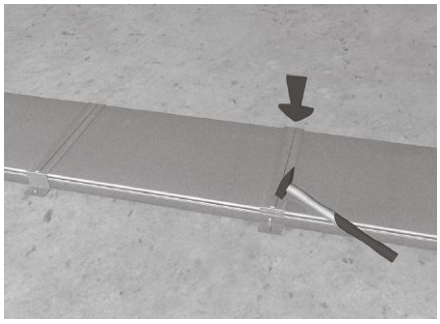
Cut trunking segments to length, if required. Sharp edges must then be deburred.

Attach the clamps



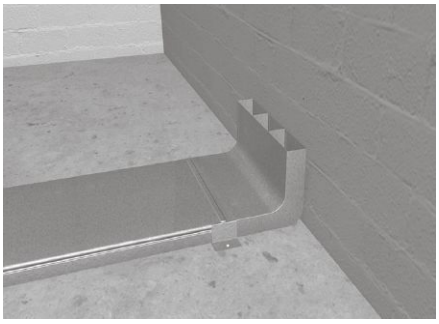
Connect the two trunking segments at their edges using a clamp and dowel it to the slap through the two holes (7 x 15 mm). The installation of the clamp is also required to ensure equipotential bonding between the trunking segments in accordance with DIN VDE 0100.

Additional brackets



If required, trunking segments can be secured between the joints using additional brackets.

Connect the vertical elbow

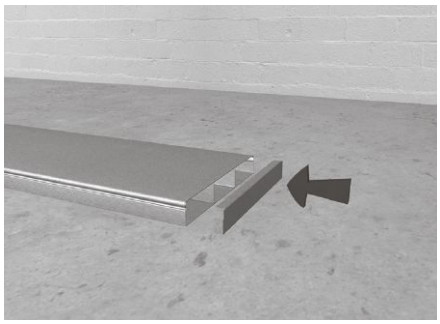


Connect the vertical elbows as wall connection to the trunking using a clamp.

Connect the feed channel

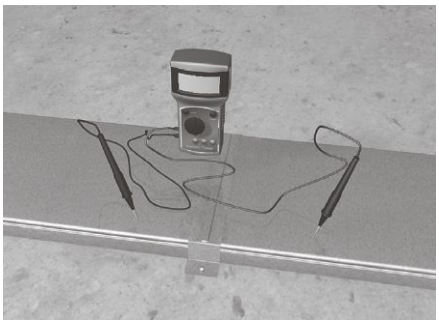
A feed channel can be attached to the vertical elbow for further line routing. This trunking segment connects the underfloor trunking to the wall trunking.

Attach the end bracket



If the trunking ends in the middle of the room, then the cut edge must be closed by an end bracket. The end cap does not need to be secured by screws.

Earthing measures



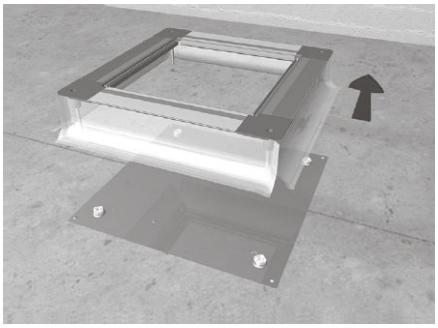
The trunking segments are joined mechanically and electrically by the clamps. All contact areas must be clean and free of grease.

Alternative installation method:

Attach the universal junction box

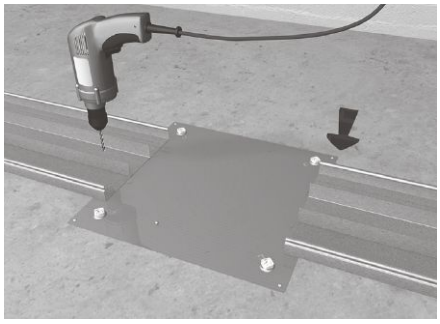
Secure the universal junction box to the slab.

Remove the upper part of the box



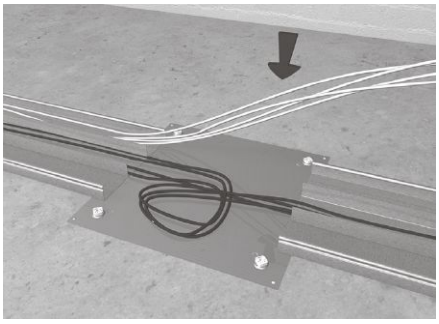
Pull the upper part from the universal junction box out of the soundproofing mounts. Bottom plate and soundproofing mounts remain firmly on the slab.

Attach the upper part of the trunking



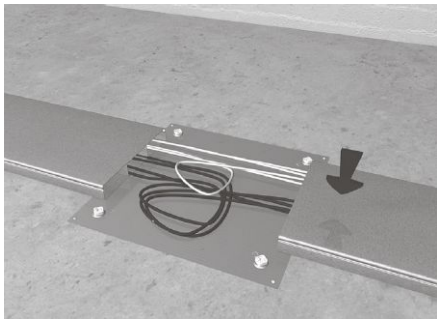
Thanks to the removable lid, the trunking can attached to the slab quickly and easily. Drive anchors, fasteners or other means may be used for the purpose.

Insert the cables from above



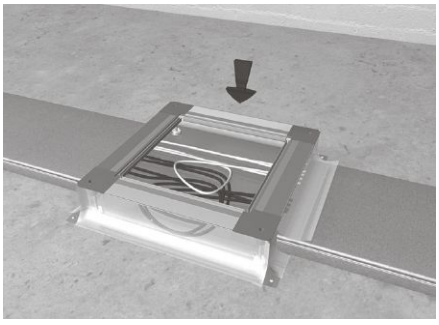
Cables can be placed in the open trunking from above. It is not necessary to pull the cables in. This facilitates a convenient, space-saving, orderly and bundled installation of cables.
Caution: Due to the high temperatures, this is not feasible in hot screed installations.

Attach the lid



The lid of the trunking is put on from above and snaps into place.

Attach the upper part of the box



The upper part of universal junction box UDH and UDB is put on from above and over the trunking into the soundproofing mounts.

General instructions:

DIN standard
Please observe for screed overlap of trunkings according DIN 18560 "Screeds of building industry".

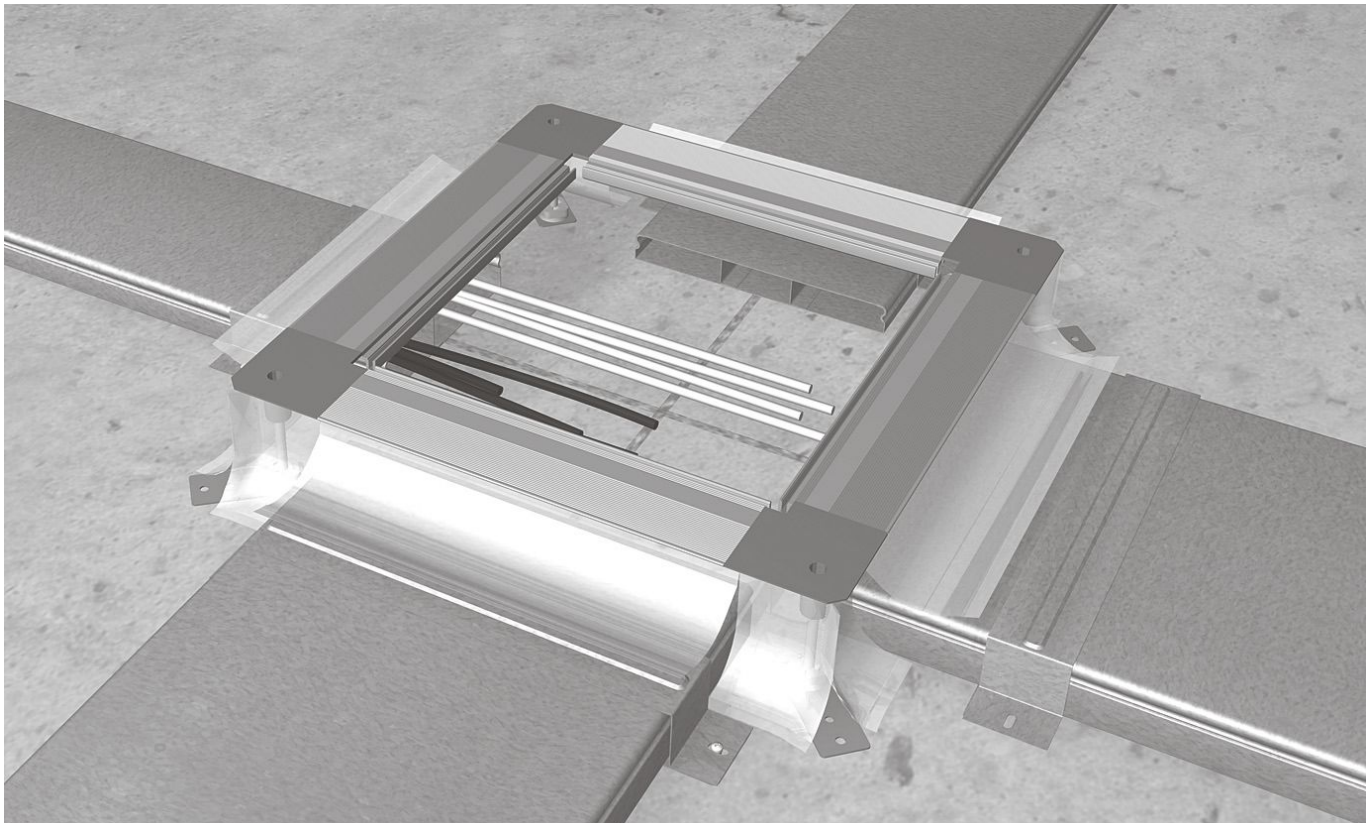
Earthing
System components must be included in the earthing measures according to DIN VDE 0100.

Sealing
Trunking and universal junction box must be protected by the customer against screed ingress during installation.

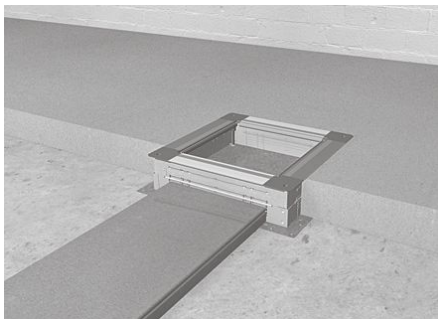
Hardening
Do not walk on the trunking system or impose any mechanical loads on it before the screed has hardened.

Protective covers
The protection lids may only be removed from the universal junction box and be replaced by the fitting frames immediately before installation of the flooring.

Conterminal trades
Observe the general information and the information concerning conterminal trades (screed layer, floor fitter).

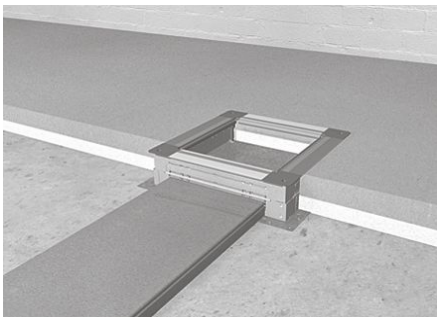


Installation in monolithic screed



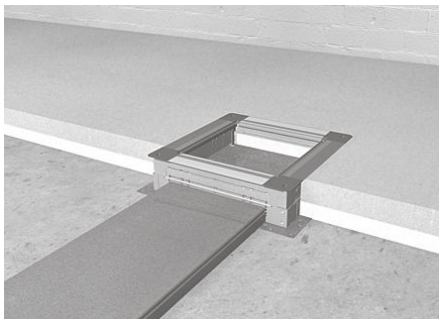
Cement screed is directly applied onto the slab and the galvanised underfloor trunking.

Installation in floating floor screed



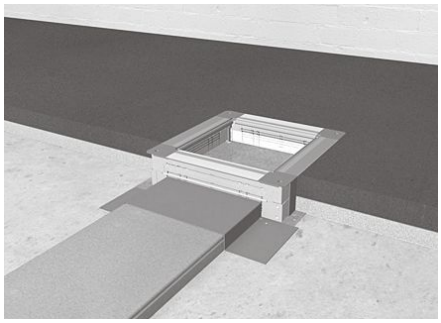
Cement screed is applied onto an insulating layer. The underfloor trunking is integrated in this insulation layer.

Installation in floating screed



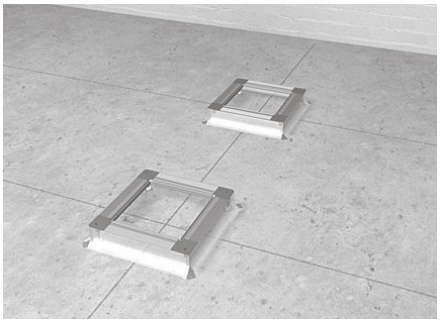
The installation of trunking and universal junction boxes is similar to the installation in cement screed. In addition, the system must be protected against the ingress of floating screed during installation.

Installation in hot screed (UDS3 only)



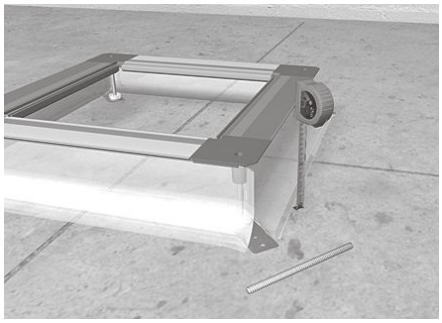
When casting hot screed or mastic asphalt temperatures of approx. 280 °C may occur. This requires trunking and universal junction boxes to be covered and insulated with bituminous corrugated board. Due to the high temperatures, lines must not be installed before the hot screed has completely cooled down.

Position the universal junction boxes according to the lay-out.



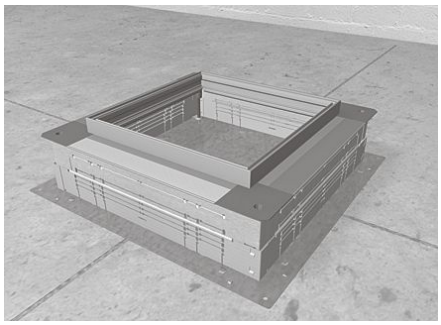
Locate the universal junction boxes on the slab and secure them according to the lay-out. The flexible screed casing must be on the outside.

Check the levelling area



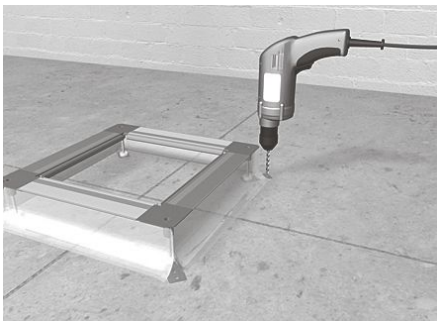
Check the levelling area on the slab. The studs of universal junction box UDB or UDH can be replaced, if required. Turn them counterclockwise to separate them from the soundproofing mounts. Do not pull the studs out or drive them in.

Screed height above 120 mm with UDS3



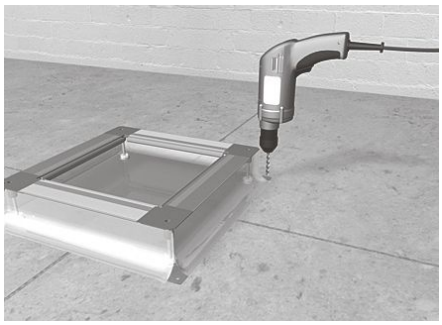
For screed heights of more than 120 mm the height of universal junction box UDS3 can be increased by 35 mm using levelling frame UDAR335. Place levelling frame onto the frame of the underfloor box and secure it with four screws.

Attach universal junction box UDH



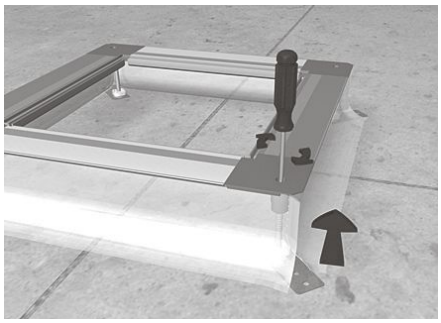
If universal junction box UDH is used, dowel all four brackets to the slab. Each bracket is pre-drilled with 1 x 6 mm and 1 x 7 mm holes.

Attach junction box UDB or UDS3



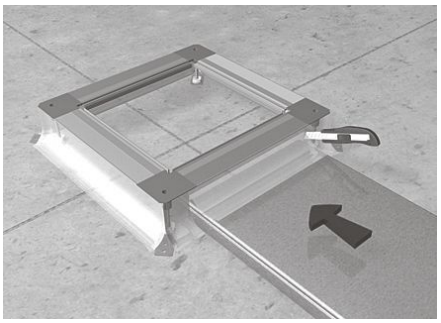
For universal junction box UDB or UDS3, the bottom plate must be secured to the slab at all four corners. Holes of 6.5 mm are provided in each corner.

Level the universal junction box



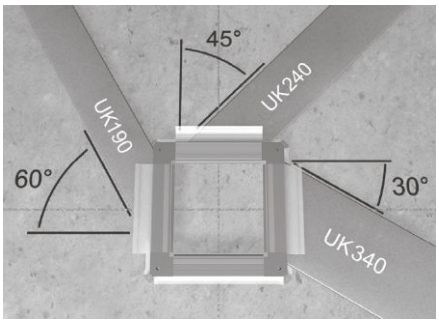
Level the box frame to the required height using a screwdriver to turn the studs at all four corners. The elastic mounting of the frame prevents cracks in the screed during curing.

Feed in the trunking



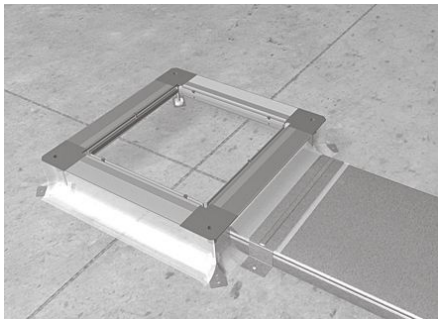
Cut in the film formwork to fit height and width of the trunking. Lift the film tab and push the trunking up to the stop on the bottom plate or approx. 40 mm under the universal junction box.

Angled trunking in-feed is possible



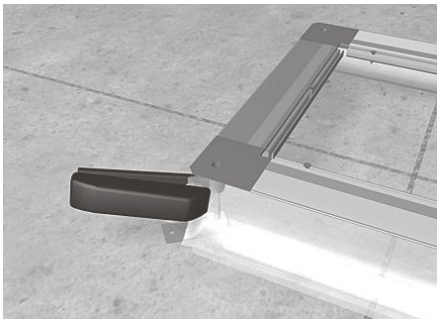
Universal junction boxes UDB3 and UDH3 allow trunking to be introduced at an angle as specified. This layout makes the installation of lines more difficult.

Attach the trunking



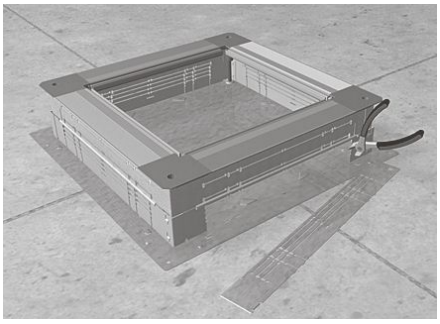
Pinch the film tab between trunking and bracket. Attach the bracket using plugs and screws.

Connect the film



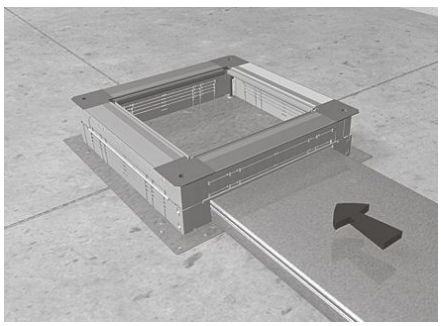
Join the screed formwork film at all four corners using a stapling pliers.

Cut out universal junction box UDS3



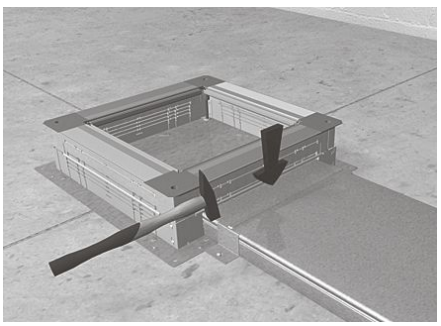
Before installation, a corresponding cut-out must be created in the universal junction box to allow connection of the trunking. Use a wire cutter to cut out the panel along the perforation as required.

Feed in the trunking



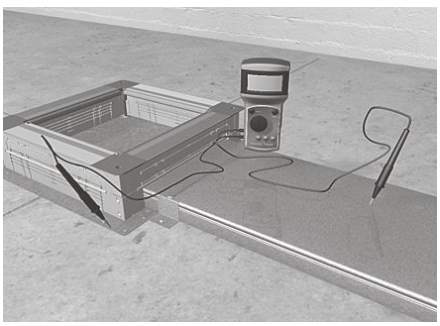
Introduce the trunking into the opening created in the sidewall and push it against the stop at the bottom plate.

Attach the trunking



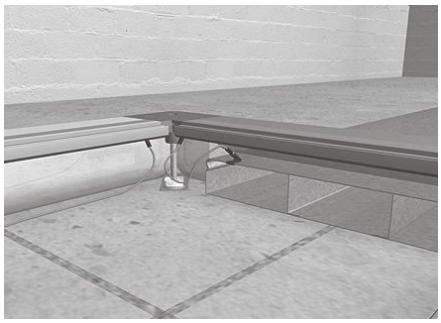
Connect the trunking to the universal junction box using a bracket.

Grounding of UDS3 / UDB



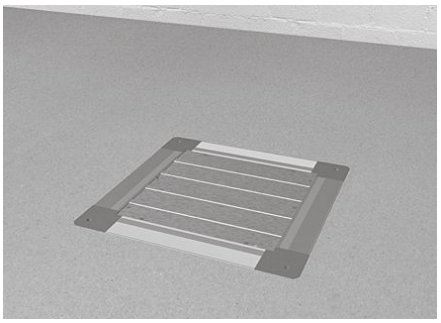
The force of the bracket pressing the trunking onto the bottom plate ensure the electric conductivity of the universal junction box and the trunking. The contact areas must be clean and free of grease. The ground conductor in the universal junction box must be connected to the ground connection on site.

Grounding underfloor box UDH



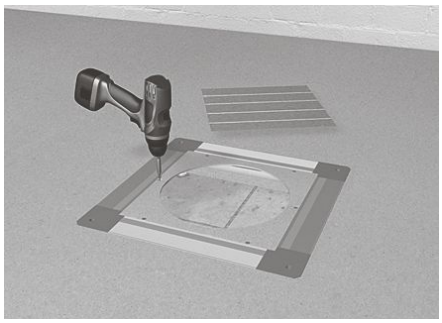
Connect the ground cable provided in the universal junction box the supplying trunking end to ensure electrical conductivity between the two components. The ground cable in the universal junction box must be connected to the ground connection on site.

Install the screed



Install screed up to the top edge of the universal junction boxes. The protection lid only serves as protection against ingress of foreign material and must not be rolled over or subject to any other load.

Replace the protection lid



Do not remove the protection lid until the flooring is being installed, and replace it by an fitting frame. Secure it to the box frame or levelling frame using screws.

Install the service unit

After laying the flooring, cut out the openings of the installed fitting frames and install the service unit or cassette.

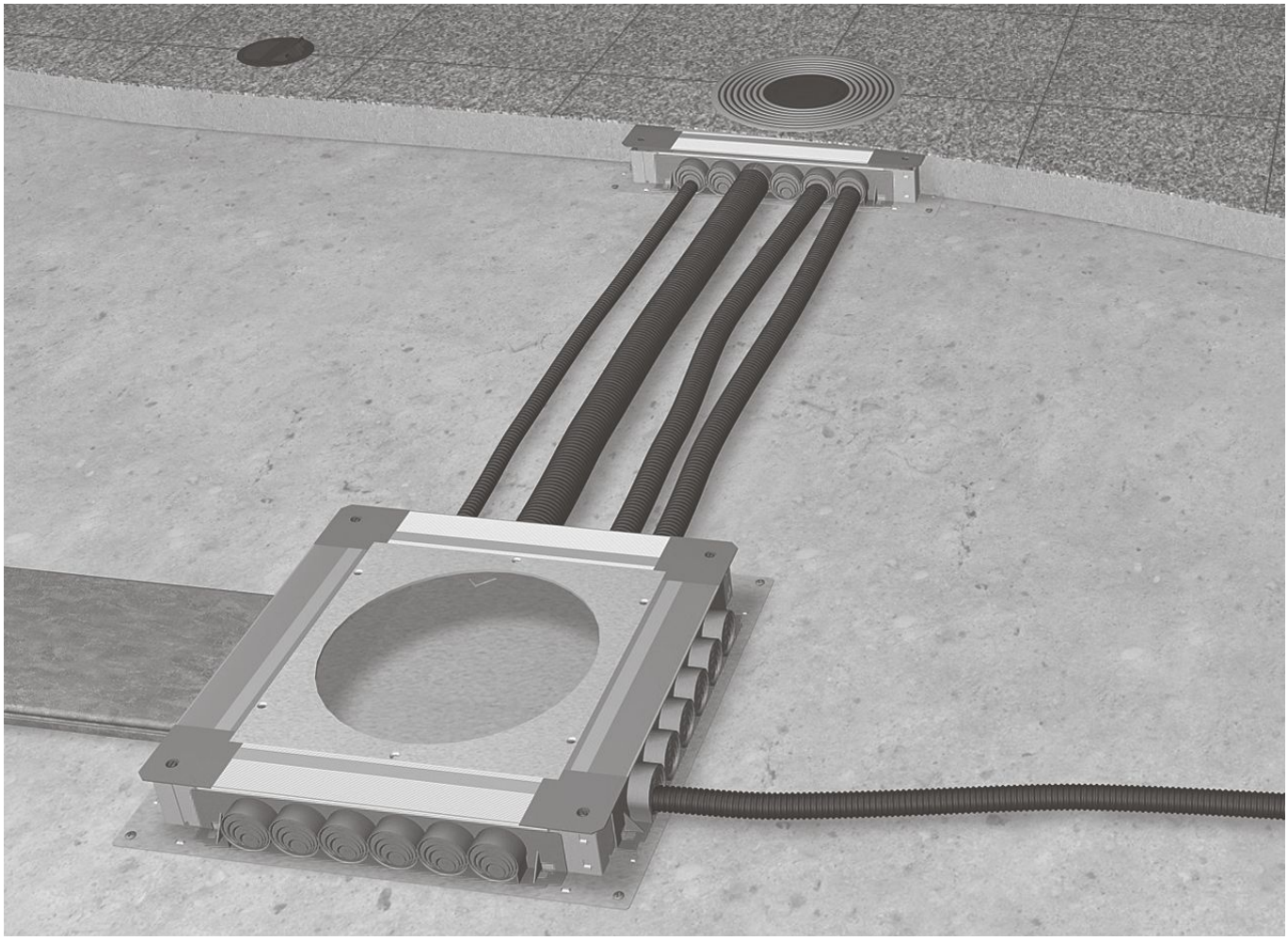
General instructions:

Several diameters
By breaking out the perforated plugs, conduits with standard diameters of 20 mm, 32 mm, 40 mm and 50 mm can be used.

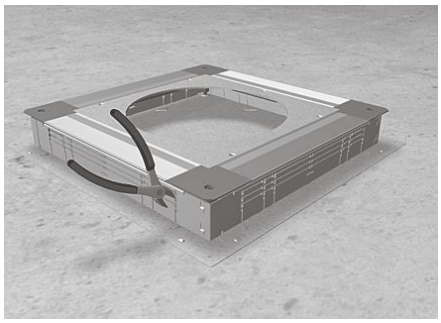
No additional parts needed
No additional parts such as reduction pieces or adapters are needed.

Full-length support
The out-of-centre arrangement of the plugs ensure that the ducts remain flat on the slab along their entire length.
This ensure a continuous thickness of the screed right up to the sidewalls of the junction box.

Snap-in function
The conduits snap in to facilitate the specific use of underfloor trunking or conduits.

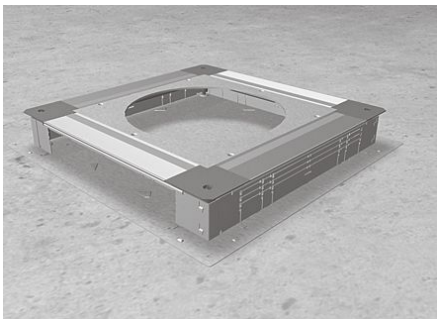


Cut out the sidewall



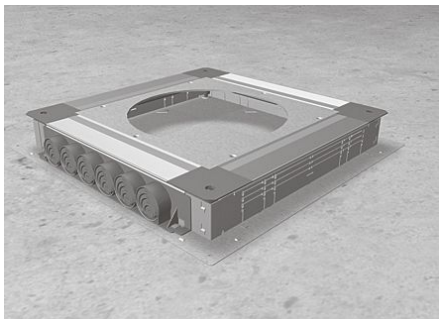
Notch the sidewall along the outermost perforation using a wire cutter.

Remove the sidewall



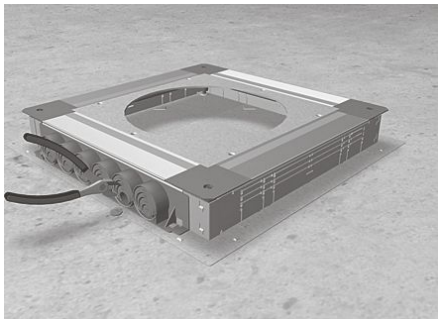
Remove cut-out sheet metal from sidewall.

Snap in the pipe inlet



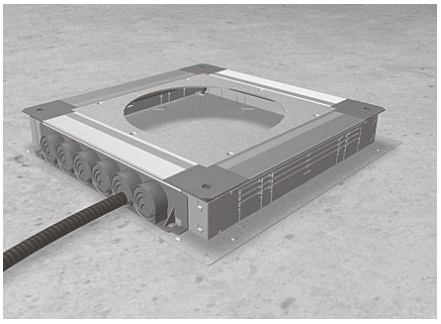
From the front face, snap pipe inlet UDS3 RE 20-50 into the lugs provided. The connection does not require any screws.

Notch the pipe inlet



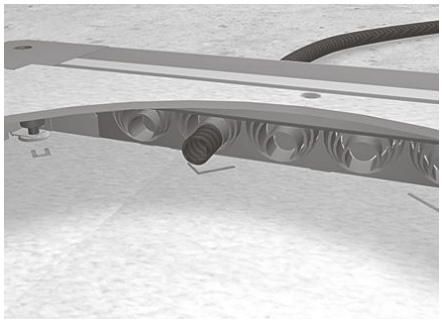
Notch the perforated plugs to the required diameter using a wire cutter or utility cutter.

Insert cable conduit



Insert the cable conduit into the opening.

Position cable conduit



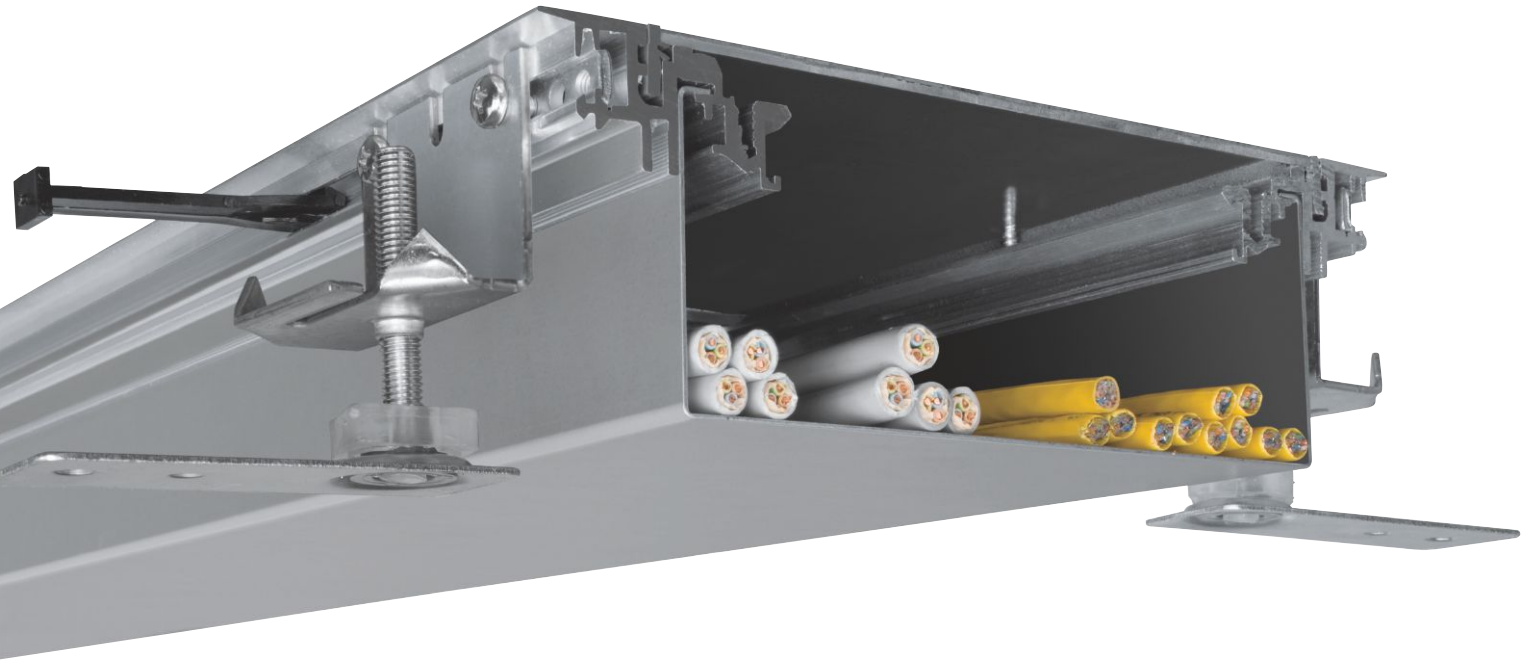
Let the cable conduit protrude approximately 1-2 cm into the inside of the junction box. Then attach the cable conduit outside the junction box to the slab to prevent it from floating.

Screed-flush trunking systems

tehalit.BKB | electraplan.BK

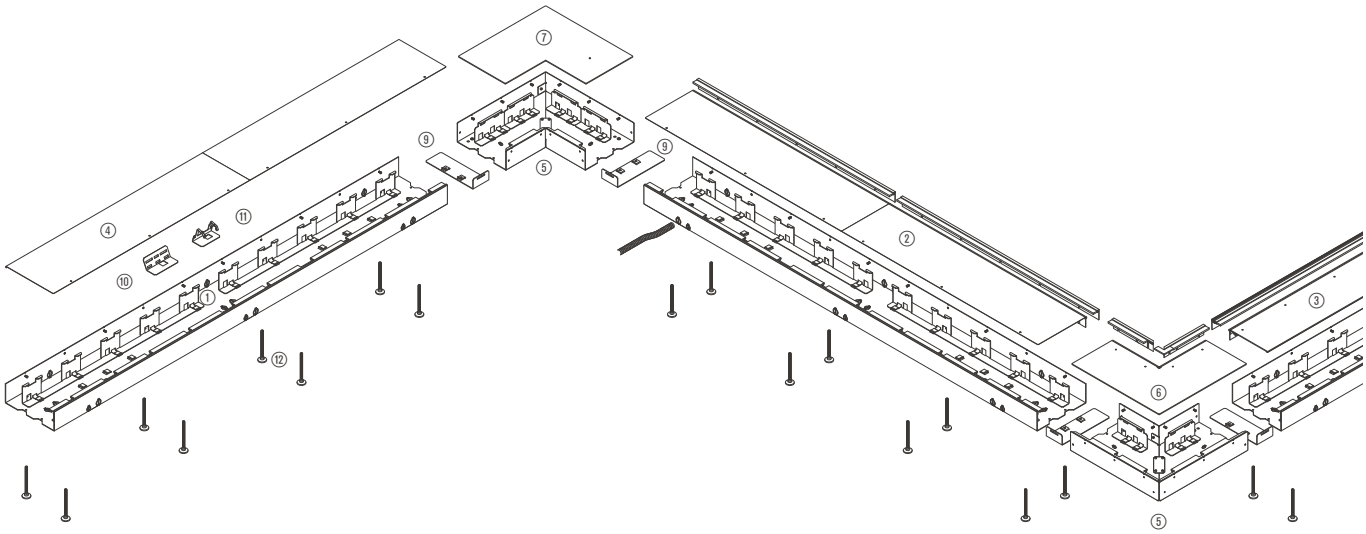
tehalit.BKB: Perfectly integrated
With the screed-flush trunking system tehalit.BKB, energy, data and communication connections can be flexibly provided anywhere they are needed – even in rooms with glass walls or large window surface. The system could not be simpler: Thanks to the range of specially shaped elements in the tehalit.BKB system, concealed lines can be routed to any corner of the room.

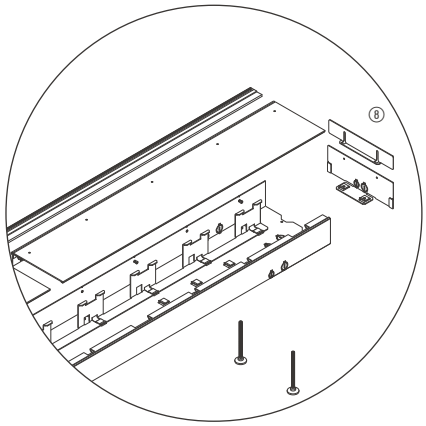
electraplan.BK: Flat & wide
Thanks to the very compact height of the electraplan.BK system, it is also suitable for very shallow screed depths from 30 mm without and from 45 mm with footfall sound insulation. With a large trunking width of up to 600 mm, the system offers plenty of space to house large volumes of cables and lines. Particularly practical: Even after installation, the trunking covers can be opened at any time, and thanks to the flexible foil casing it is no problem at all to cross over e.g. heating pipes. Particularly practical: Even after installation, the trunking covers can be opened at any time, and thanks to the flexible foil casing it is no problem at all to cross over e.g. heating pipes. Alternatively we also have trunking with separate bottoms that ensure a clean and tidy installation, protecting lines against dust and dirt.



tehalit.BKB

electraplan.BK





tehalit.BKB

① Trunking lower part

② Upper part with brush

③ Upper part with brush for LED

④ Upper part closed

⑤ Low-angled bracket for bottom part

⑥ Low-angled bracket, outer,
for upper part with brush

⑦ Low-angled bracket for upper part closed

⑧ End plate

⑨ Coupling set

⑩ Device carrier for trunking sockets

⑪ Device carrier for data systems technology

⑫ Set screws

- Screed-flush trunking for dry-cleaned floors in accordance with DIN EN 50085
- Installation of devices with device carriers
- Ease of access thanks to removable upper part and cable outlet on the wall side (outlet brush)
- Minimum screed height 96 mm
- Upper part can be covered with all types of floor coverings (parquet flooring, carpets, tiles or laminate) (5 - 25 mm)
- Levelling of the trunking via internally accessible set screws
- Withstands point loads of up to 150 kg
- Minimum recommendation: 4 set screws and 4 fastening screws per running metre (not included in the delivery package)
- Straightforward retrofitting for energy and data
- Important: Installation of edge insulation strips between trunking and screed
- Observe the earthing requirements

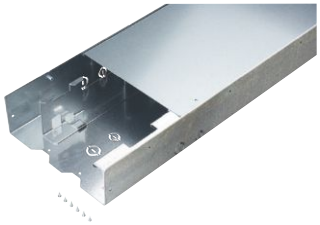
Available brush colours
Black

Material
Galvanised sheet metal

Standard length
2000 mm
Lower part 2000 mm
Upper part 2 x 1000 mm

Form of delivery
Trunking comprising upper and lower part

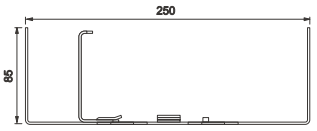
▶ from page 2.35



BKB250851

BKB trunking lower part

Dimensions (W x H): 250 x 85 mm
Length: 2000 mm
Including assembly cover and 6 drilling screws for fastening
Set screws not included in delivery package

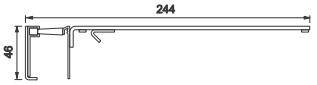


Designation	PU	Order no.
Lower part of balustrade floor trunking BKB25085	2	**BKB250851**

BKB250852B

BKB upper part with brush

Supplied length: 2 x 1000 mm
Available brush colours: Black

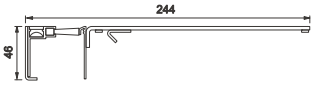


Designation	PU	Order no.
Upper part with brush for BKB25085	2	**BKB250852B**

BKB250852BLED

BKB upper part with brush for LED

Supplied length: 2 x 1000 mm
Available brush colours: Black
Transparent range for LED chain installation

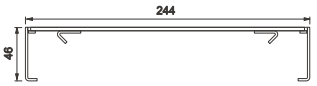


Designation	PU	Order no.
Upper part with brush and LED for BKB25085	2	**BKB250852BLED**

BKB250852G

BKB upper part closed

Supplied length: 2 x 1000 mm
For installation away from the wall

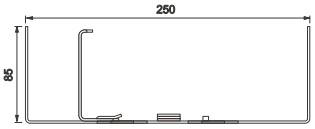


Designation	PU	Order no.
Upper part closed for BKB25085	2	**BKB250852G**

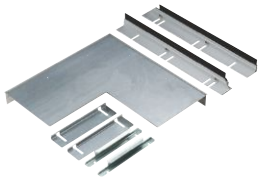
BKB2508551

BKB low-angled bracket for bottom part

Lower part for low-angled bracket, inner and outer
Dimensions (W x H) 250 x 85 mm
Including assembly cover and 7 drilling screws for fastening
Set screws not included in delivery package



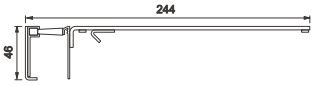
Designation	PU	Order no.
Low-angled bracket for lower part, inner/outer for BKB25085	1	**BKB2508551**



BKB2508554B

BKB low-angled bracket, inner, for upper part with brush

Available brush colours:
Black

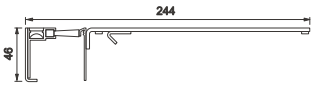


Designation	PU	Order no.
Low-angled bracket, upper part, brush/inner for BKB25085	1	**BKB2508554B**

BKB2508554BLED

BKB low-angled bracket, inner, for upper part with brush and LED

Available brush colours: Black
Transparent range for LED chain installation

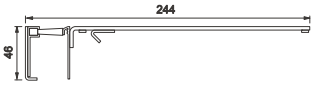


Designation	PU	Order no.
Low-angled bracket, upper part, brush/LED/inner for BKB25085	1	**BKB2508554BLED**

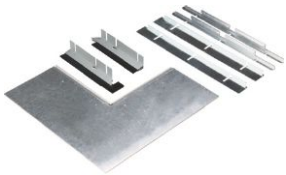
BKB2508553B

BKB low-angled bracket, outer, for upper part with brush

Available brush colours: Black



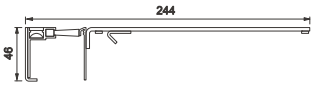
Designation	PU	Order no.
Low-angled bracket, upper part, brush/outer for BKB25085	1	**BKB2508553B**



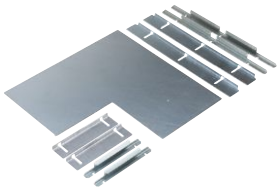
BKB2508553BLED

BKB low-angled bracket, outer, for upper part with brush and LED

Available brush colours: Black
Transparent range for LED chain installation



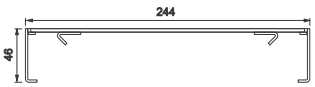
Designation	PU	Order no.
Low-angled bracket, upper part, brush/LED/outer for BKB25085	1	**BKB2508553BLED**



BKB2508554G

BKB low-angled bracket, upper part closed

Upper part for low-angled bracket, inner and outer
For installation away from the wall



Designation	PU	Order no.
Low-angled bracket, upper part closed, for BKB25085	1	**BKB2508554G**

BKB250858T

BKB T-piece adapter, galvanised sheet metal

Includes 2 countersunk screws and 6 drilling screws

Designation	PU	Order no.
T-piece adapter for BKB25085 galv. sh. metal	1	**BKB250858T**

BKB250856

BKB end plate, galvanised sheet metal

Includes 2 countersunk screws

Designation	PU	Order no.
End plate for BKB250856 galv. sh. metal	1	**BKB250856**

BKB250857

BKB coupling set, galvanised sheet metal

Connector, electrical and mechanical for BKB25085 lower parts
Includes 4 countersunk screws

Designation	PU	Order no.
Coupling set for BKB250857 galv. sh. metal	1	**BKB250857**

BKBGTR910

BKB device carrier for trunking sockets (C-profile), galvanised sheet metal

Device carrier for fastening of trunking sockets (C-profile device installation)

Designation	PU	Order no.
Device carrier for trunking socket for BKB	1	**BKBGTR910**

BKBGTR911

BKB device carrier for DNT devices, galvanised sheet metal

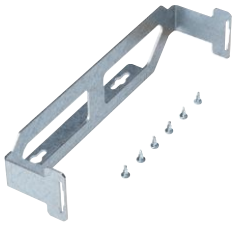
Device carrier for fastening of data network technology devices

Designation	PU	Order no.
Device carrier data/communication for BKB	1	**BKBGTR911**

BKBGTR922

BKB device carrier for 2-way electraplan device casing, galvanised sheet metal

Designation	PU	Order no.
Device carrier electraplan 2-way for BKB	1	**BKBGTR922**



BKBGTR923

BKB device carrier for 3-way electraplan device casing, galvanised sheet metal

Designation	PU	Order no.
Device carrier electraplan 3-way for BKB	1	**BKBGTR923**

BKBNS60

Levelling set 60

8 set screws:
- 96 - 145 mm
The indicated height range corresponds to the height of the screed.

Designation	PU	Order no.
Levelling set 96-145 mm for BKB	1	**BKBNS60**

BKBNS120

Levelling set 120

8 set screws:
- 145 - 210 mm
The indicated height range corresponds to the height of the screed.

Designation	PU	Order no.
Levelling set 145-210 mm for BKB	1	**BKBNS120**

BKBNSD60

Levelling set 60 with insulation

8 set screws with insulation for height adjustment:
- 96 - 145 mm
The indicated height range corresponds to the height of the screed.

Designation	PU	Order no.
Levelling set 96-145 mm w insulation for BKB	1	**BKBNSD60**

BKBNSD120

Levelling set 120 with insulation

8 set screws with insulation for height adjustment:
- 145 - 210 mm
The indicated height range corresponds to the height of the screed.

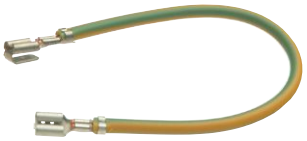
Designation	PU	Order no.
Levelling set 145-210 mm w insulation for BKB	1	**BKBNSD120**

L4187CHRO

Earth conductor clamp

For base terminals up to a cross section of 10 mm²

Designation	PU	Order no.
Earth conductor clamp, chrome-plated	10	**L4187CHRO**



L4181

Earthing conductor

Pluggable, cross-section 4 mm², for electrical connection of the base profile and upper parts as well as for bypassing moulded parts

Designation	PU	Order no.
Earthing conductor, L = 150 mm, push-on contact	100	**L4181GNGE**
Earthing conductor, L = 300 mm, push-on contact	100	**L4182GNGE**
Earthing conductor, L = 600 mm, push-on contact	25	**L4183GNGE**

BS90SET

2-component silicone fire protection foam S90

Cable insulation
For installation in walls and floors for fire resistance classification S90 in accordance with DIN4102.
Building inspectorate approval: Approval no.: Z19.15-1256
Installation instructions and the certificate of technical approval from the relevant building inspectorate can be downloaded from www.hager.de/downloads.
Further data and requirements calculation table can be found in the technical attachments.

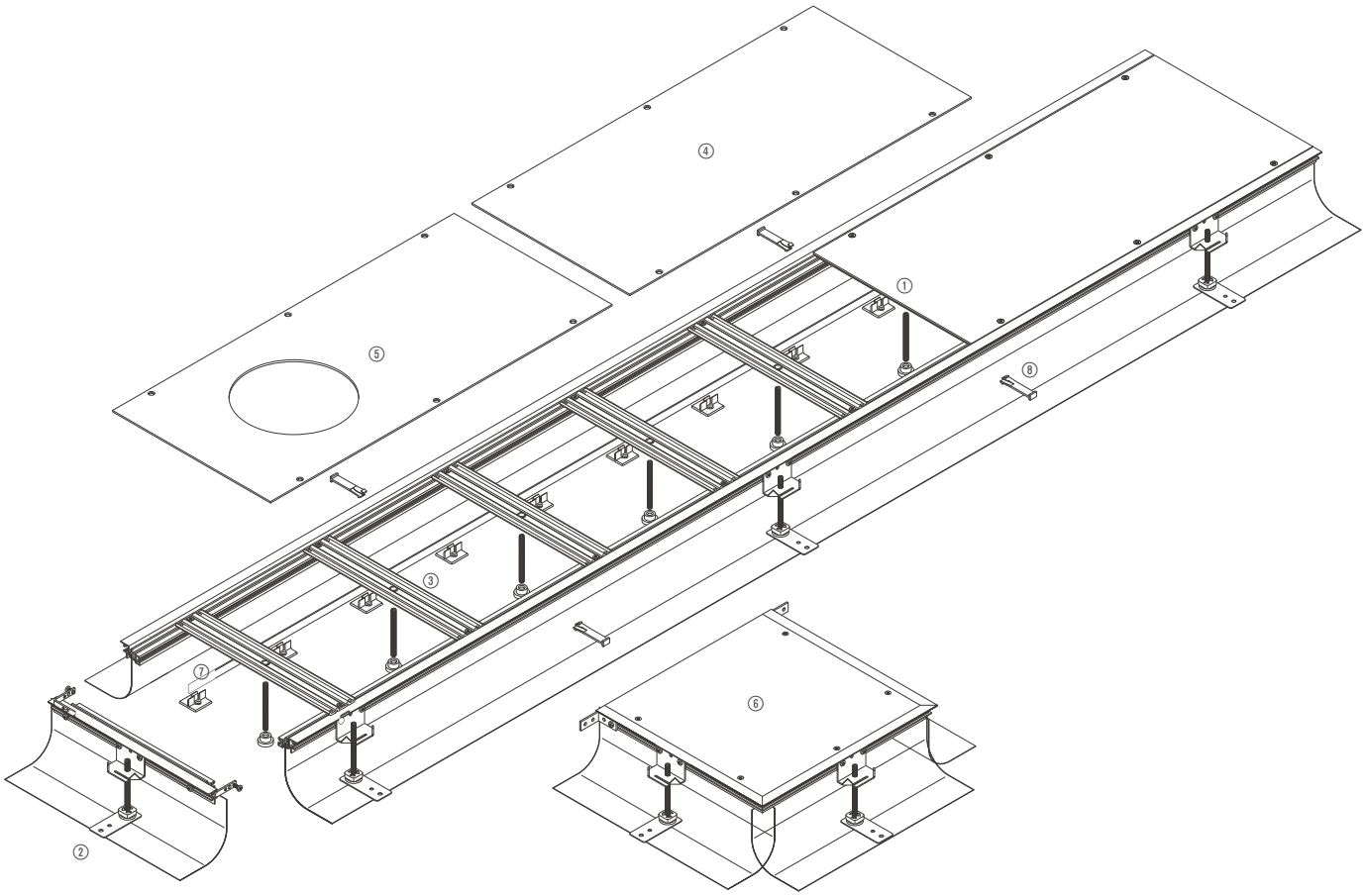
Designation	PU	Order no.
Fire protection foam set	1	**BS90SET**
Fire protection foam can	1	**BS90D**
Shaped part	1	**BS90F**
3 adapter spray tubes	1	**BS90S**
Valve tongs	1	**BS90Z**

L5804

Sound barrier

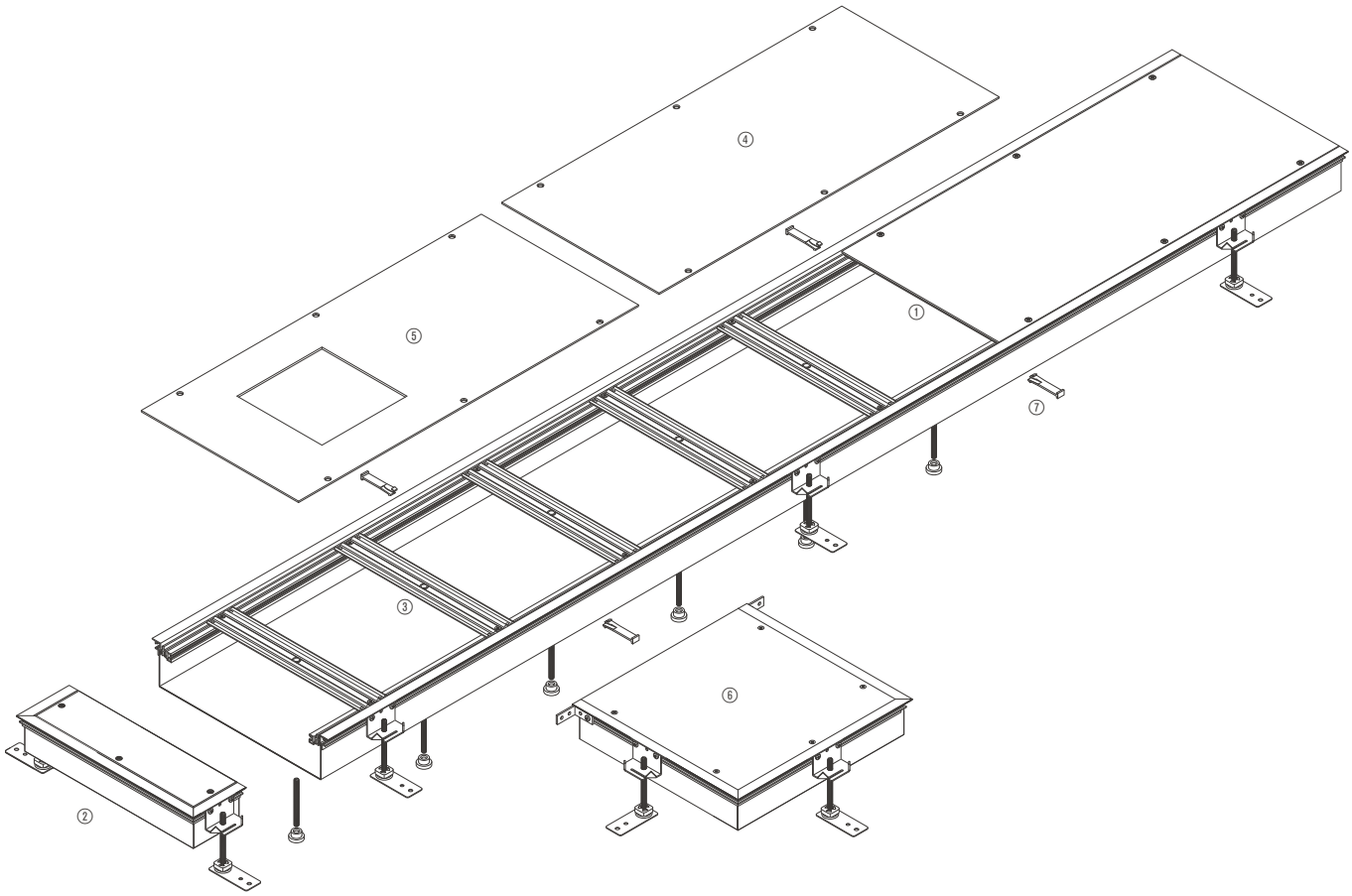
1 set = 15 pigtails, pigtail length: 300 mm, ø 30 mm, damping approx. 40 dB, non-combustible, building materials classification A1, not suitable for use as a firewall.

Designation	PU	Order no.
Sound barrier = 15 pigtails	1	**L5804**



electraplan.BK

① Basic profile
② Cover
③ Cross member
④ Blank cover
⑤ Cover with blanking
⑥ Side junction box
⑦ Partition wall
⑧ Screed anchor



electraplan.BK

① Basic profile

③ End piece

③ Cross member

④ Blank cover

⑤ Cover with blanking

⑥ Side junction box

⑦ Screed anchor

Trunking with flexible screed casing

Trunkings	Nominal size	Outer width mm	Trunking height max. mm	Levelling range mm	Usable cross-section cm²	Max. Line allocation Ø 11 mm, half full	Page
BKF150045	150	166	70	45 - 70	77	31	2.14
BKF150065	150	166	110	65 - 110	121	50	2.14
BKF150105	150	166	150	105 - 150	165	68	2.14
BKF150145	150	166	190	145 - 190	209	86	2.14
BKF200045	200	216	70	45 - 70	112	46	2.14
BKF200065	200	216	110	65 - 110	176	72	2.14
BKF200105	200	216	150	105 - 150	240	99	2.14
BKF200145	200	216	190	145 - 190	304	125	2.14
BKF250045	250	266	70	45 - 70	147	60	2.14
BKF250065	250	266	110	65 - 110	231	95	2.14
BKF250105	250	266	150	105 - 150	315	130	2.14
BKF250145	250	266	190	145 - 190	399	164	2.14
BKF300045	300	316	70	45 - 70	182	75	2.14
BKF300065	300	316	110	65 - 110	286	118	2.14
BKF300105	300	316	150	105 - 150	390	161	2.14
BKF300145	300	316	190	145 - 190	494	204	2.14
BKF350045	350	366	70	45 - 70	217	89	2.14
BKF350065	350	366	110	65 - 110	341	140	2.14
BKF350105	350	366	150	105 - 150	465	192	2.14
BKF350145	350	366	190	145 - 190	589	243	2.14
BKF400045	400	416	70	45 - 70	252	104	2.14
BKF400065	400	416	110	65 - 110	396	163	2.14
BKF400105	400	416	150	105 - 150	540	223	2.14
BKF400145	400	416	190	145 - 190	684	282	2.14
BKF500045	500	516	70	45 - 70	322	133	2.14
BKF500065	500	516	110	65 - 110	506	209	2.14
BKF500105	500	516	150	105 - 150	690	285	2.14
BKF500145	500	516	190	145 - 190	874	361	2.14
BKF600045	600	616	70	45 - 70	392	161	2.14
BKF600065	600	616	110	65 - 110	616	254	2.14
BKF600105	600	616	150	105 - 150	840	347	2.14
BKF600145	600	616	190	145 - 190	1064	439	2.14

Trunking with trunking bottom

Trunkings	Nominal size	Outer width mm	Pull height mm	Levelling range mm	Usable cross-section cm²	Max. Line allocation Ø 11 mm, half full	Page
BKW150040	150	166	28	40 - 60	37.5	15	2.16
BKW150050	150	166	38	50 - 70	50.9	21	2.16
BKW150060	150	166	48	60 - 100	64.3	26	2.16
BKW150070	150	166	58	70 - 110	77.7	32	2.16
BKW200060	200	216	48	60 - 100	88.3	36	2.16
BKW200070	200	216	58	70 - 110	106.7	44	2.16
BKW200080	200	216	68	80 - 120	125.1	51	2.16
BKW200090	200	216	78	90 - 130	143.5	59	2.16
BKW250060	250	266	48	60 - 100	112.3	46	2.16
BKW250070	250	266	58	70 - 110	135.7	56	2.16
BKW250080	250	266	68	80 - 120	159.1	65	2.16
BKW250090	250	266	78	90 - 130	182.5	75	2.16
BKW300060	300	316	48	60 - 100	136.3	56	2.16
BKW300070	300	316	58	70 - 110	164.7	68	2.16
BKW300080	300	316	68	80 - 120	193.1	79	2.16
BKW300090	300	316	78	90 - 130	221.5	91	2.16
BKW350060	350	366	48	60 - 100	160.3	66	2.16
BKW350070	350	366	58	70 - 110	193.7	80	2.16
BKW350080	350	366	68	80 - 120	227.1	93	2.16
BKW350090	350	366	78	90 - 130	260.5	107	2.16
BKW400060	400	416	48	60 - 100	184.3	76	2.16
BKW400070	400	416	58	70 - 110	222.7	92	2.16
BKW400080	400	416	68	80 - 120	261.1	107	2.16
BKW400090	400	416	78	90 - 130	299.5	123	2.16
BKW500060	500	516	48	60 - 100	232.3	96	2.16
BKW500070	500	516	58	70 - 110	280.7	116	2.16
BKW500080	500	516	68	80 - 120	329.1	136	2.16
BKW500090	500	516	78	90 - 130	377.5	156	2.16
BKW600060	600	616	48	60 - 100	280.3	115	2.16
BKW600070	600	616	58	70 - 110	338.7	139	2.16
BKW600080	600	616	68	80 - 120	397.1	164	2.16
BKW600090	600	616	78	90 - 130	455.5	188	2.16

Trunking system with flexible screed casing and sealing option

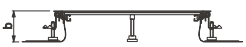
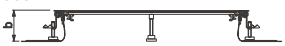
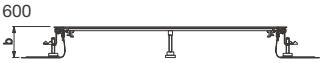
Trunkings	Nominal size	Outer width mm	Trunking height max. mm	Levelling range mm	Usable cross-section cm²	Max. Line allocation Ø 11 mm, half full	Page
BKFD150045	150	170	70	45 - 70	77	31	2.22
BKFD150065	150	170	110	65 - 110	121	50	2.22
BKFD150105	150	170	150	105 - 150	165	68	2.22
BKFD150145	150	170	190	145 - 190	209	86	2.22
BKFD200045	200	220	70	45 - 70	112	46	2.22
BKFD200065	200	220	110	65 - 110	176	72	2.22
BKFD200105	200	220	150	105 - 150	240	99	2.22
BKFD200145	200	220	190	145 - 190	304	125	2.22
BKFD250045	250	270	70	45 - 70	147	60	2.22
BKFD250065	250	270	110	65 - 110	231	95	2.22
BKFD250105	250	270	150	105 - 150	315	130	2.22
BKFD250145	250	270	190	145 - 190	399	164	2.22
BKFD300045	300	320	70	45 - 70	182	75	2.22
BKFD300065	300	320	110	65 - 110	286	118	2.22
BKFD300105	300	320	150	105 - 150	390	161	2.22
BKFD300145	300	320	190	145 - 190	494	204	2.22
BKFD350045	350	370	70	45 - 70	217	89	2.22
BKFD350065	350	370	110	65 - 110	341	140	2.22
BKFD350105	350	370	150	105 - 150	465	192	2.22
BKFD350145	350	370	190	145 - 190	589	243	2.22
BKFD400045	400	420	70	45 - 70	252	104	2.22
BKFD400065	400	420	110	65 - 110	396	163	2.22
BKFD400105	400	420	150	105 - 150	540	223	2.22
BKFD400145	400	420	190	145 - 190	684	282	2.22
BKFD500045	500	520	70	45 - 70	322	133	2.22
BKFD500065	500	520	110	65 - 110	506	209	2.22
BKFD500105	500	520	150	105 - 150	690	285	2.22
BKFD500145	500	520	190	145 - 190	874	361	2.22
BKFD600045	600	620	70	45 - 70	392	161	2.22
BKFD600065	600	620	110	65 - 110	616	254	2.22
BKFD600105	600	620	150	105 - 150	840	347	2.22
BKFD600145	600	620	190	145 - 190	1064	439	2.22

Trunking with trunking bottom and sealing option

Trunkings	Nominal size	Outer width mm	Pull height mm	Levelling range mm	Usable cross-section cm²	Max. Line allocation Ø 11 mm, half full	Page
BKWD150040	150	170	28	40 - 60	37.5	15	2.24
BKWD150050	150	170	38	50 - 70	50.9	21	2.24
BKWD150060	150	170	48	60 - 100	64.3	26	2.24
BKWD200060	200	220	48	60 - 100	88.3	36	2.24
BKWD200070	200	220	58	70 - 110	106.7	44	2.24
BKWD200080	200	220	68	80 - 120	125.1	51	2.24
BKWD200090	200	220	78	90 - 130	143.5	59	2.24
BKWD250060	250	270	48	60 - 100	112.3	46	2.24
BKWD250070	250	270	58	70 - 110	135.7	56	2.24
BKWD250080	250	270	68	80 - 120	159.1	65	2.24
BKWD250090	250	270	78	90 - 130	182.5	75	2.24
BKWD300060	300	320	48	60 - 100	136.3	56	2.24
BKWD300070	300	320	58	70 - 110	164.7	68	2.24
BKWD300080	300	320	68	80 - 120	193.1	79	2.24
BKWD300090	300	320	78	90 - 130	221.5	91	2.24
BKWD350060	350	370	48	60 - 100	160.3	66	2.24
BKWD350070	350	370	58	70 - 110	193.7	80	2.24
BKWD350080	350	370	68	80 - 120	227.1	93	2.24
BKWD350090	350	370	78	90 - 130	260.5	107	2.24
BKWD400060	400	420	48	60 - 100	184.3	76	2.24
BKWD400070	400	420	58	70 - 110	222.7	92	2.24
BKWD400080	400	420	68	80 - 120	261.1	107	2.24
BKWD400090	400	420	78	90 - 130	299.5	123	2.24
BKWD500060	500	520	48	60 - 100	232.3	96	2.24
BKWD500070	500	520	58	70 - 110	280.7	116	2.24
BKWD500080	500	520	68	80 - 120	329.1	136	2.24
BKWD500090	500	520	78	90 - 130	377.5	156	2.24
BKWD600060	600	620	48	60 - 100	280.3	115	2.24
BKWD600070	600	620	58	70 - 110	338.7	139	2.24
BKWD600080	600	620	68	80 - 120	397.1	164	2.24
BKWD600090	600	620	78	90 - 130	455.5	188	2.24

electraplan.BK - Screed-flush trunking system with flexible screed casing for dry-cleaned floors

- BKF: Complete trunking with flexible screed casing for screed-flush installation in dry rooms with dry-cleaned floors
- Floor-flush installation units can be installed from a screed height of 55 mm
- Blank covers and covers with blanking: Galvanised sheet metal in accordance with DIN EN 10327, material thickness 3 mm, length 800 mm, fastening bores countersunk on one side to facilitate individual choice of floor coverings
- Abutting edge for covering: PC/ABS halogen-free, 0 or 4 mm high, grey colour, flush-mounted
- Flexible screed casing: PVC, UV-resistant, highly impact-resistant
- Trunking levelling height from 30 mm with footfall sound insulation from 45 mm
- With factory-fitted levelling clamps, footfall sound insulation and set screws enclosed in accessories package

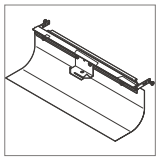
Nominal size	**BKF** levelling height b 45 - 70 mm sheet metal	**BKF** levelling height b 65 - 110 mm sheet metal	**BKF** levelling height b 105 - 150 mm sheet metal	**BKF** levelling height b 145 - 190 mm sheet metal
150 	**BKF150045** PU 24 m	**BKF150065** PU 24 m	**BKF150105** PU 24 m	**BKF150145** PU 24 m
200 	**BKF200045** PU 24 m	**BKF200065** PU 24 m	**BKF200105** PU 24 m	**BKF200145** PU 24 m
250 	**BKF250045** PU 24 m	**BKF250065** PU 24 m	**BKF250105** PU 24 m	**BKF250145** PU 24 m
300 	**BKF300045** PU 24 m	**BKF300065** PU 24 m	**BKF300105** PU 24 m	**BKF300145** PU 24 m
350 	**BKF350045** PU 24 m	**BKF350065** PU 24 m	**BKF350105** PU 24 m	**BKF350145** PU 24 m
400 	**BKF400045** PU 24 m	**BKF400065** PU 24 m	**BKF400105** PU 24 m	**BKF400145** PU 24 m
500 	**BKF500045** PU 24 m	**BKF500065** PU 24 m	**BKF500105** PU 24 m	**BKF500145** PU 24 m
600 	**BKF600045** PU 24 m	**BKF600065** PU 24 m	**BKF600105** PU 24 m	**BKF600145** PU 24 m

Standard length
2400 mm

Material
Galvanised sheet metal,
Galvanised in accordance with
DIN EN 10327

Note
- The blank covers are reinforced by load-bearing cross members located underneath them.
- Optional snap fastener on the blank cover
- The load-bearing capacity for components installed flush with the floor is 1500 N, a small amount of bending is permissible.
- Sealing piece with foil as termination for screed-flush trunking, for pushing onto the end of the trunking

▶ from page 2.40



Sealing piece for BKF
Levelling height b
Sheet metal

BKFV150
PU 1 pc

BKFV200
PU 1 pc

BKFV250
PU 1 pc

BKFV300
PU 1 pc

BKFV350
PU 1 pc

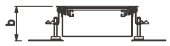
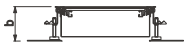
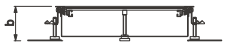
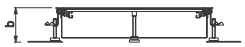
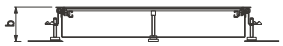
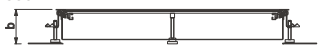
BKFV400
PU 1 pc

BKFV500
PU 1 pc

BKFV600
PU 1 pc

electraplan.BK – screed-flush trunking system with trunking bottom for dry-cleaned floors

- BKW: Complete trunking with trunking bottom for screed-flush installation in dry rooms with dry-cleaned floors
- Trunking bottom: 1 mm sheet metal, galvanised in accordance with DIN EN 10327
- Floor-flush installation units can be installed on trunking with an adjustment range of 70 - 110 mm or higher.
- Blank covers and covers with blanking: Galvanised sheet metal in accordance with DIN EN 10327, material thickness 3 mm, length 800 mm, fastening bores countersunk on one side to facilitate individual choice of floor coverings
- Abutting edge for covering PC/ABS halogen-free, 0 or 4 mm high, grey colour, flush-mounted
- Trunking levelling height from 30 mm with footfall sound insulation from 45 mm
- With factory-fitted levelling clamps, footfall sound insulation and set screws enclosed in accessories package
- Fixed inserted sheet metal partition wall available on request

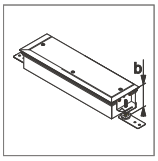
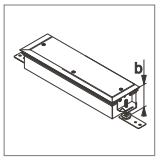
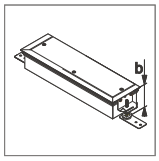
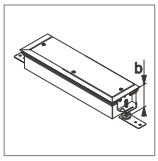
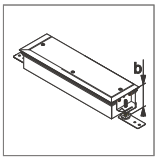
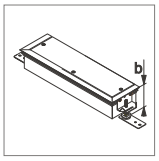
Nominal size	**BKW** Levelling height b 40 - 60 mm sheet metal	**BKW** Levelling height b 50 – 70 mm Sheet metal	**BKW** Levelling height b 60 - 100 mm sheet metal	**BKW** Levelling height b 70 – 110 mm Sheet metal	**BKW** Levelling height b 80 – 120 mm Sheet metal	**BKW** Levelling height b 90 – 130 mm Sheet metal
150 	**BKW150040** PU 24 m	**BKW150050** PU 24 m	**BKW150060** PU 24 m	**BKW150070** PU 24 m		
200 			**BKW200060** PU 24 m	**BKW200070** PU 24 m	**BKW200080** PU 24 m	**BKW200090** PU 24 m
250 			**BKW250060** PU 24 m	**BKW250070** PU 24 m	**BKW250080** PU 24 m	**BKW250090** PU 24 m
300 			**BKW300060** PU 24 m	**BKW300070** PU 24 m	**BKW300080** PU 24 m	**BKW300090** PU 24 m
350 			**BKW350060** PU 24 m	**BKW350070** PU 24 m	**BKW350080** PU 24 m	**BKW350090** PU 24 m
400 			**BKW400060** PU 24 m	**BKW400070** PU 24 m	**BKW400080** PU 24 m	**BKW400090** PU 24 m
500 			**BKW500060** PU 24 m	**BKW500070** PU 24 m	**BKW500080** PU 24 m	**BKW500090** PU 24 m
600 			**BKW600060** PU 24 m	**BKW600070** PU 24 m	**BKW600080** PU 24 m	**BKW600090** PU 24 m

Standard length
2400 mm

Material
Galvanised sheet metal, galvanised in accordance with DIN EN 10327

Note
- The blank covers are reinforced by load-bearing cross members located underneath them.
- Optional snap fastener on the blank cover
- The load-bearing capacity for components installed flush with the floor is 1500 N, a small amount of bending is permissible.
- End piece with trunking bottom as termination for screed-flush trunking, for connection to the end of the trunking - With factory-fitted levelling clamps, footfall sound insulation and set screws enclosed

▶ from page 2.40

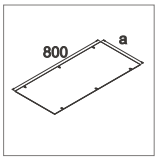
					
BKW end piece Levelling height b 40 - 60 mm sheet metal	**BKW end piece** Levelling height b 50 – 70 mm Sheet metal	**BKW end piece** Levelling height b 60 – 100 mm Sheet metal	**BKW end piece** Levelling height b 70 – 110 mm Sheet metal	**BKW end piece** Levelling height b 80 – 120 mm Sheet metal	**BKW end piece** Levelling height b 90 – 130 mm Sheet metal
BKWE150040 PU 1 pc	**BKWE150050** PU 1 pc	**BKWE150060** PU 1 pc	**BKWE150070** PU 1 pc		
		BKWE200060 PU 1 pc	**BKWE200070** PU 1 pc	**BKWE200080** PU 1 pc	**BKWE200090** PU 1 pc
		BKWE250060 PU 1 pc	**BKWE250070** PU 1 pc	**BKWE250080** PU 1 pc	**BKWE250090** PU 1 pc
		BKWE300060 PU 1 pc	**BKWE300070** PU 1 pc	**BKWE300080** PU 1 pc	**BKWE300090** PU 1 pc
		BKWE350060 PU 1 pc	**BKWE350070** PU 1 pc	**BKWE350080** PU 1 pc	**BKWE350090** PU 1 pc
		BKWE400060 PU 1 pc	**BKWE400070** PU 1 pc	**BKWE400080** PU 1 pc	**BKWE400090** PU 1 pc
		BKWE500060 PU 1 pc	**BKWE500070** PU 1 pc	**BKWE500080** PU 1 pc	**BKWE500090** PU 1 pc
		BKWE600060 PU 1 pc	**BKWE600070** PU 1 pc	**BKWE600080** PU 1 pc	**BKWE600090** PU 1 pc

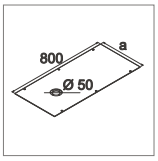
- As additional covering, fastening bores countersunk on one side to facilitate individual choice of floor coverings, incl. Fastening screws
- Blank covers and covers with blankings for service units

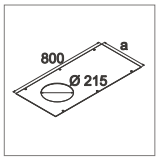
Blankings:
GBZ: round 50 mm
R06: round 215 mm
R10: round 275 mm
R12: round 306 mm
Q06: square 200 x 200 mm
Q08: square 294 x 294 mm
Q12: square 244 x 244 mm
E04: rectangular 147 x 247 mm
E09: rectangular 200 x 253 mm

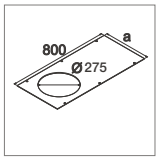
Standard length
800 mm

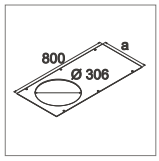
Material
3 mm galvanised sheet metal, galvanised in accordance with DIN EN 10327





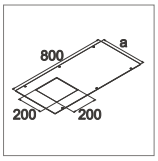




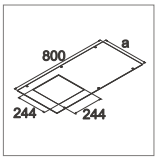


Nominal size a	Blank cover Sheet metal	Cover Blanking for GBZ Sheet metal	Cover Blanking for R06 Sheet metal	Cover Blanking for R10 Sheet metal	Cover Blanking for R12 Sheet metal
150	**BKA150800** PU 1 pc	**BKA150800GBZ** PU 1 pc			
200	**BKA200800** PU 1 pc	**BKA200800GBZ** PU 1 pc			
250	**BKA250800** PU 1 pc	**BKA250800GBZ** PU 1 pc			
300	**BKA300800** PU 1 pc	**BKA300800GBZ** PU 1 pc	**BKA300800R06** PU 1 pc		
350	**BKA350800** PU 1 pc	**BKA350800GBZ** PU 1 pc	**BKA350800R06** PU 1 pc	**BKA350800R10** PU 1 pc	
400	**BKA400800** PU 1 pc	**BKA400800GBZ** PU 1 pc	**BKA400800R06** PU 1 pc	**BKA400800R10** PU 1 pc	**BKA400800R12** PU 1 pc
500	**BKA500800** PU 1 pc	**BKA500800GBZ** PU 1 pc	**BKA500800R06** PU 1 pc	**BKA500800R10** PU 1 pc	**BKA500800R12** PU 1 pc
600	**BKA600800** PU 1 pc	**BKA600800GBZ** PU 1 pc	**BKA600800R06** PU 1 pc	**BKA600800R10** PU 1 pc	**BKA600800R12** PU 1 pc

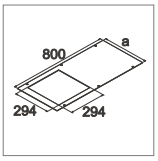
▶ from page 2.40



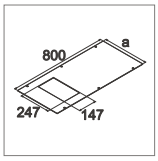
Cover
Blanking
for Q06
Sheet metal



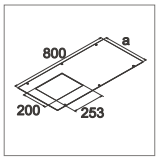
Cover
Blanking
for Q08
Sheet metal



Cover
Blanking
for Q12
Sheet metal



Cover
Blanking
for E04
Sheet metal



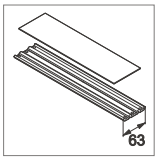
Cover
Blanking
for E09
Sheet metal

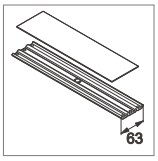
			BKA250800E04 PU 1 pc	
BKA300800Q06 PU 1 pc			**BKA300800E04** PU 1 pc	**BKA300800E04** PU 1 pc
BKA350800Q06 PU 1 pc		**BKA350800Q12** PU 1 pc	**BKA350800E04** PU 1 pc	**BKA350800E09** PU 1 pc
BKA400800Q06 PU 1 pc	**BKA400800Q08** PU 1 pc	**BKA400800Q12** PU 1 pc	**BKA400800E04** PU 1 pc	**BKA400800E09** PU 1 pc
BKA500800Q06 PU 1 pc	**BKA500800Q08** PU 1 pc	**BKA500800Q12** PU 1 pc	**BKA500800E04** PU 1 pc	**BKA500800E09** PU 1 pc
BKA600800Q06 PU 1 pc	**BKA600800Q08** PU 1 pc	**BKA600800Q12** PU 1 pc	**BKA600800E04** PU 1 pc	**BKA600800E09** PU 1 pc

- Cross members for additional load-bearing support underneath blank covers and covers with blankings on screed-flush trunking, fastened with screws in the trunking side profile
- BKTN: without centre support
- BKTMN: with centre support, set screws need to be ordered separately

Note
- Traversen mit Mittenunterstützung müssen zur Vermeidung einer unzulässigen Durchbiegung bauseitig mit Nivellierstiften M8 ausgerüstet werden

▶ from page 2.40





Nominal size a	Cross member Sheet metal	Cross member for centre support Sheet metal
150	**BKTN150** PU 1 pc	
200	**BKTN200** PU 1 pc	
250	**BKTN250** PU 1 pc	**BKTMN250** PU 1 pc
300	**BKTN300** PU 1 pc	**BKTMN300** PU 1 pc
350	**BKTN350** PU 1 pc	**BKTMN350** PU 1 pc
400		**BKTMN400** PU 1 pc
500		**BKTMN500** PU 1 pc
600		**BKTMN600** PU 1 pc

electraplan.BK – screed-flush trunking system with flexible screed casing and sealing option

- BKFD: Complete trunking with flexible screed casing and sealing option for screed-flush installation in dry rooms
- Floor-flush installation units can be installed from a screed height of 55 mm
- Blank covers and covers with blanking: Galvanised sheet metal in accordance with DIN EN 10327, material thickness 3 mm, length 800 mm, fastening bores countersunk on one side to facilitate individual choice of floor coverings
- Abutting edge for covering PC/ABS halogen-free, 0 or 4 mm high, grey colour, flush-mounted
- Flexible screed casing: PVC, UV-resistant, highly impact-resistant
- Trunking levelling height from 30 mm with footfall sound insulation from 45 mm
- With factory-fitted levelling clamps, sealing tape, footfall sound insulation and set screws enclosed

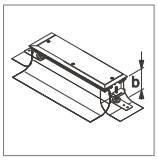
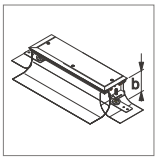
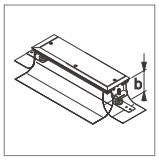
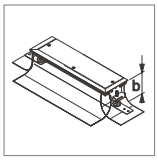
Nominal size	**BKFD** Levelling height b 45 – 70 mm Sheet metal	**BKFD** Levelling height b 65 – 110 mm Sheet metal	**BKFD** Levelling height b 105 – 150 mm Sheet metal	**BKFD** Levelling height b 145 – 190 mm Sheet metal
150 	**BKFD150045** PU 24 m	**BKFD150065** PU 24 m	**BKFD150105** PU 24 m	**BKFD150145** PU 24 m
200 	**BKFD200045** PU 24 m	**BKFD200065** PU 24 m	**BKFD200105** PU 24 m	**BKFD200145** PU 24 m
250 	**BKFD250045** PU 24 m	**BKFD250065** PU 24 m	**BKFD250105** PU 24 m	**BKFD250145** PU 24 m
300 	**BKFD300045** PU 24 m	**BKFD300065** PU 24 m	**BKFD300105** PU 24 m	**BKFD300145** PU 24 m
350 	**BKFD350045** PU 24 m	**BKFD350065** PU 24 m	**BKFD350105** PU 24 m	**BKFD350145** PU 24 m
400 	**BKFD400045** PU 24 m	**BKFD400065** PU 24 m	**BKFD400105** PU 24 m	**BKFD400145** PU 24 m
500 	**BKFD500045** PU 24 m	**BKFD500065** PU 24 m	**BKFD500105** PU 24 m	**BKFD500145** PU 24 m
600 	**BKFD600045** PU 24 m	**BKFD600065** PU 24 m	**BKFD600105** PU 24 m	**BKFD600145** PU 24 m

Standard length
2400 mm

Material
Galvanised sheet metal, galvanised in accordance with DIN EN 10327

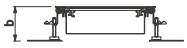
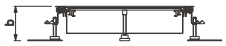
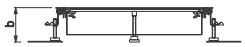
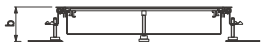
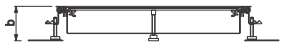
Note
- The blank covers are reinforced by load-bearing cross members located underneath them.
- Optional snap fastener on the blank cover
- The load-bearing capacity for components installed flush with the floor is 1500 N, a small amount of bending is permissible.
- End piece with foil as termination for screed-flush trunking, for connection to the end of the trunking - With factory-fitted levelling clamps, sealing tape, footfall sound insulation and set screws enclosed in accessories package

▶ from page 2.40

			
BKFD end piece Levelling height b 45 – 70 mm Sheet metal	**BKFD end piece** Levelling height b 65 – 110 mm Sheet metal	**BKFD end piece** Levelling height b 105 -150 mm Sheet metal	**BKFD end piece** Levelling height b 145 – 190 mm Sheet metal
BKFDE150045 PU 1 pc	**BKFDE150065** PU 1 pc	**BKFDE150105** PU 1 pc	**BKFDE150145** PU 1 pc
BKFDE200045 PU 1 pc	**BKFDE200065** PU 1 pc	**BKFDE200105** PU 1 pc	**BKFDE200145** PU 1 pc
BKFDE250045 PU 1 pc	**BKFDE250065** PU 1 pc	**BKFDE250105** PU 1 pc	**BKFDE250145** PU 1 pc
BKFDE300045 PU 1 pc	**BKFDE300065** PU 1 pc	**BKFDE300105** PU 1 pc	**BKFDE300145** PU 1 pc
BKFDE350045 PU 1 pc	**BKFDE350065** PU 1 pc	**BKFDE350105** PU 1 pc	**BKFDE350145** PU 1 pc
BKFDE400045 PU 1 pc	**BKFDE400065** PU 1 pc	**BKFDE400105** PU 1 pc	**BKFDE400145** PU 1 pc
BKFDE500045 PU 1 pc	**BKFDE500065** PU 1 pc	**BKFDE500105** PU 1 pc	**BKFDE500145** PU 1 pc
BKFDE600045 PU 1 pc	**BKFDE600065** PU 1 pc	**BKFDE600105** PU 1 pc	**BKFDE600145** PU 1 pc

electraplan.BK – screed-flush trunking system with trunking bottom and sealing option

- BKWD: Complete trunking with trunking bottom and sealing option for screed-flush installation in dry rooms
- Trunking bottom: 1 mm sheet metal, galvanised in accordance with DIN EN 10327
- Floor-flush installation units can be installed on trunking with an adjustment range of 70 - 110 mm or higher.
- Blank covers and covers with blanking: Galvanised sheet metal in accordance with DIN EN 10327, material thickness 3 mm, length 800 mm, fastening bores countersunk on one side to facilitate individual choice of floor coverings
- Abutting edge for covering: PC/ABS halogen-free, 0 or 4 mm high, grey colour, flush-mounted
- Trunking levelling height from 30 mm with footfall sound insulation from 45 mm
- With factory-fitted levelling clamps, sealing tape, footfall sound insulation and set screws enclosed
- Fixed inserted sheet metal partition wall available on request

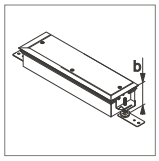
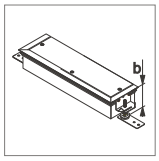
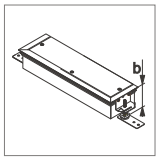
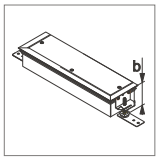
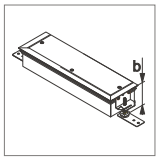
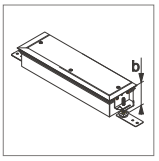
Nominal size	BKWD Levelling height b 40 – 60 mm Sheet metal	BKWD Levelling height b 50 – 70 mm Sheet metal	BKWD Levelling height b 60 – 100 mm Sheet metal	BKWD Levelling height b 70 – 110 mm Sheet metal	BKWD Levelling height b 80 – 120 mm Sheet metal	BKWD Levelling height b 90 – 130 mm Sheet metal
150 	**BKWD150040** PU 24 m	**BKWD150050** PU 24 m	**BKWD150060** PU 24 m			
200 			**BKWD200060** PU 24 m	**BKWD200070** PU 24 m	**BKWD200080** PU 24 m	**BKWD200090** PU 24 m
250 			**BKWD250060** PU 24 m	**BKWD250070** PU 24 m	**BKWD250080** PU 24 m	**BKWD250090** PU 24 m
300 			**BKWD300060** PU 24 m	**BKWD300070** PU 24 m	**BKWD300080** PU 24 m	**BKWD300090** PU 24 m
350 			**BKWD350060** PU 24 m	**BKWD350070** PU 24 m	**BKWD350080** PU 24 m	**BKWD350090** PU 24 m
400 			**BKWD400060** PU 24 m	**BKWD400070** PU 24 m	**BKWD400080** PU 24 m	**BKWD400090** PU 24 m
500 			**BKWD500060** PU 24 m	**BKWD500070** PU 24 m	**BKWD500080** PU 24 m	**BKWD500090** PU 24 m
600 			**BKWD600060** PU 24 m	**BKWD600070** PU 24 m	**BKWD600080** PU 24 m	**BKWD600090** PU 24 m

Standard length
2400 mm

Material
Galvanised sheet metal, galvanised in accordance with DIN EN 10327

Note
- The blank covers are reinforced by load-bearing cross members located underneath them.
- Optional snap fastener on the blank cover
- The load-bearing capacity for components installed flush with the floor is 1500 N, a small amount of bending is permissible.
- End piece with trunking bottom as termination for screed-flush trunking, for connection to the end of the trunking - With factory-fitted levelling clamps, sealing tape, footfall sound insulation and set screws enclosed in accessories package

▶ from page 2.40

					
BKWD end piece Levelling height b 40 - 60 mm sheet metal	**BKWD end piece** Levelling height b 50 – 70 mm Sheet metal	**BKWD end piece** Levelling height b 60 - 100 mm sheet metal	**BKWD end piece** Levelling height b 70 – 110 mm Sheet metal	**BKWD end piece** Levelling height b 80 – 120 mm Sheet metal	**BKWD end piece** Levelling height b 90 – 130 mm Sheet metal
BKWDE150040 PU 1 pc	**BKWDE150050** PU 1 pc	**BKWDE150060** PU 1 pc			
		BKWDE200060 PU 1 pc	**BKWDE200070** PU 1 pc	**BKWDE200080** PU 1 pc	**BKWDE200090** PU 1 pc
		BKWDE250060 PU 1 pc	**BKWDE250070** PU 1 pc	**BKWDE250080** PU 1 pc	**BKWDE250090** PU 1 pc
		BKWDE300060 PU 1 pc	**BKWDE300070** PU 1 pc	**BKWDE300080** PU 1 pc	**BKWDE300090** PU 1 pc
		BKWDE350060 PU 1 pc	**BKWDE350070** PU 1 pc	**BKWDE350080** PU 1 pc	**BKWDE350090** PU 1 pc
		BKWDE400060 PU 1 pc	**BKWDE400070** PU 1 pc	**BKWDE400080** PU 1 pc	**BKWDE400090** PU 1 pc
		BKWDE500060 PU 1 pc	**BKWDE500070** PU 1 pc	**BKWDE500080** PU 1 pc	**BKWDE500090** PU 1 pc
		BKWDE600060 PU 1 pc	**BKWDE600070** PU 1 pc	**BKWDE600080** PU 1 pc	**BKWDE600090** PU 1 pc

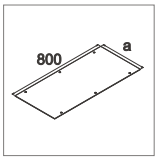
- As additional covering, fastening bores countersunk on one side to facilitate individual choice of floor coverings, incl. Fastening screws
- Blank covers and covers with blankings for pedestal boxes and service units VANR12

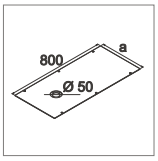
Blankings
GBZ: round 50 mm
R12: round 306 mm

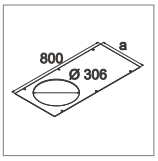
Standard length
800 mm

Material
3 mm galvanised sheet metal, Galvanised in accordance with DIN EN 10327

▶ from page 2.40







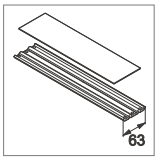
Nominal size a	**Blank cover** Sheet metal	**Abdeckung** Blanking for GBZ Sheet metal	**Abdeckung** Blanking for R12 Sheet metal
150	**BKAD150** PU 1 pc	**BKAD150GBZ** PU 1 pc	
200	**BKAD200** PU 1 pc	**BKAD200GBZ** PU 1 pc	
250	**BKAD250** PU 1 pc	**BKAD250GBZ** PU 1 pc	
300	**BKAD300** PU 1 pc	**BKAD300GBZ** PU 1 pc	
350	**BKAD350** PU 1 pc	**BKAD350GBZ** PU 1 pc	
400	**BKAD400** PU 1 pc	**BKAD400GBZ** PU 1 pc	**BKAD400R12** PU 1 pc
500	**BKAD500** PU 1 pc	**BKAD500GBZ** PU 1 pc	**BKAD500R12** PU 1 pc
600	**BKAD600** PU 1 pc	**BKAD600GBZ** PU 1 pc	**BKAD600R12** PU 1 pc

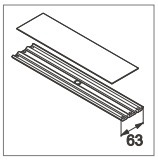
- Cross members for additional load-bearing support underneath blank covers and covers with blankings on screed-flush trunking, fastened with screws in the trunking side profile
- BKTN: without centre support

- BKTMD: with centre support, set screws need to be ordered separately

Note
- Cross members with a centre support must be equipped with set screws M8 on-site to prevent excessive bending.

▶ from page 2.40

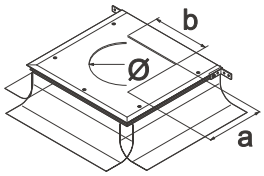




Nominal size	Cross member Sheet metal	Cross member for centre support Sheet metal
150	**BKTD150** PU 1 pc	
200	**BKTD200** PU 1 pc	
250	**BKTD250** PU 1 pc	**BKTMD250** PU 1 pc
300	**BKTD300** PU 1 pc	**BKTMD300** PU 1 pc
350	**BKTD350** PU 1 pc	**BKTMD350** PU 1 pc
400		**BKTMD400** PU 1 pc
500		**BKTMD500** PU 1 pc
600		**BKTMD600** PU 1 pc

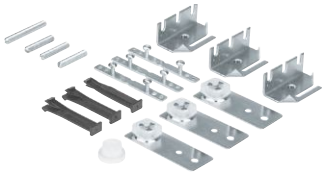
BKSAB00

Junction box with foil



Properties:
- Junction box for side mounting on floor trunking for dry rooms with dry or wet-cleaned flooring, for the mounting of installation units (flush with the floor or protruding above it) with fitting frame
- Outer dimension: 411 x 388 mm
- Junction boxes avoid narrowing of the trunking cross-section, which is otherwise unavoidable when installation units are mounted directly in the trunking.
- A levelling clamp from the existing trunking and a levelling set are required for the installation.
- The levelling set needs to be ordered separately.
- Available with trunking bottom on request

Blanking designation	Ø [mm]	a [mm]	b [mm]	PU	Order no.
Side junction box for floor trunking, blank				1	**BKSAB00**
Side junction box for floor trunking with GBZ blanking	50			1	**BKSAG00**
Side junction box for floor trunking with E04 blanking		147	247	1	**BKSAE04**
Side junction box for floor trunking with E09 blanking		200	253	1	**BKSAE09**
Side junction box for floor trunking with Q06 blanking		200	200	1	**BKSAQ06**
Side junction box for floor trunking with R06 blanking	215			1	**BKSAR06**
Side junction box for floor trunking with Q12 blanking		244	244	1	**BKSAQ12**
Side junction box for floor trunking with R10 blanking	275			1	**BKSAR10**
Side junction box for floor trunking with Q08 blanking		294	294	1	**BKSAQ08**
Side junction box for floor trunking with R12 blanking	306			1	**BKSAR12**

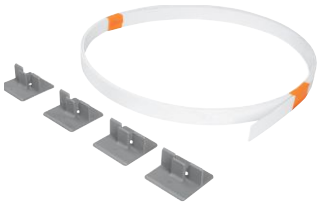


BKSAN045070

Levelling set for junction box

Properties:
- Levelling set comprising 3 levelling clamps, 4 set screws with insulating mounts, 3 screed anchors

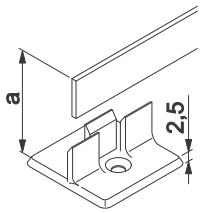
Designation	Height adjustment range [mm]	PU	Order no.
Levelling set for BKSA h.-adj. range 45- 70		1	**BKSAN045070**
Levelling set for BKSA h.-adj. range 65-110		1	**BKSAN065110**
Levelling set for BKSA h.-adj. range 105-150		1	**BKSAN105150**
Levelling set for BKSA h.-adj. range 145-190		1	**BKSAN145190**



BKTWK16

Partition wall made of PS

Properties:
- Partition wall for separating trunking into compartments, accessory for screed-flush trunking
- Includes 4 partition wall feet for attachment with anchors to the bare floor
- Total height with partition wall feet = nominal height a + 2.5 mm
- Length: 2000 mm

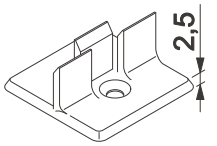


Designation	PU	Order no.
Partition wall, nominal height 16 mm, L = 2000 mm, PS	2	**BKTWK16**
Partition wall, nominal height 31mm, L = 2000 mm, PS	2	**BKTWK31**
Partition wall, nominal height 46mm, L = 2000 mm, PS	2	**BKTWK46**
Partition wall, nominal height 61mm, L = 2000 mm, PS	2	**BKTWK61**
Partition wall, nominal height 76mm, L = 2000 mm, PS	2	**BKTWK76**
Partition wall, nominal height 91mm, L = 2000 mm, PS	2	**BKTWK91**

BKTWF00

Partition wall foot made of PS

Properties:
- If required



Designation	PU	Order no.
PS partition wall foot for PS partition wall	2	**BKTWF00**

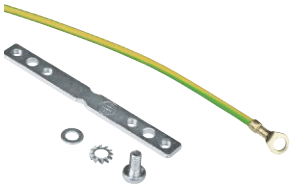
BKTWS20

Partition wall made of sheet metal

Properties:
- Partition wall for separating trunking into compartments, accessory for screed-flush trunking
- For attachment to the bare floor with anchors
- Length: 2400 mm

Material:
- 1 mm galvanised sheet metal, galvanised in accordance with DIN EN 10327

Designation	PU	Order no.
Partition wall, nominal height 20 mm, L = 2400 mm, sheet metal	24	**BKTWS20**
Partition wall, nominal height 35mm, L = 2400 mm, sheet metal	24	**BKTWS35**
Partition wall, nominal height 50mm, L = 2400 mm, sheet metal	24	**BKTWS50**
Partition wall, nominal height 65mm, L = 2400 mm, sheet metal	24	**BKTWS65**
Partition wall, nominal height 80mm, L = 2400 mm, sheet metal	24	**BKTWS80**
Partition wall, nominal height 95mm, L = 2400 mm, sheet metal	24	**BKTWS95**
Partition wall, nominal height 110mm, L = 2400 mm, sheet metal	24	**BKTWS110**



BKZSA200

Earth conductor for earthing of the trunking system

Properties:
- Screwed to straight trunking connector, flexible wire 2.5 mm², 200 mm long, green/yellow
- 1 x ring cable lug, 1 x wire end ferrule
- Suitable for screed-flush trunking systems for dry-cleaned floors

Designation	PU	Order no.
Earth conductor for earthing of the underfloor trunking	1	**BKZSA200**

BKZSAK00

Earth conductor, connecting clamp

Properties:
- Connecting terminal with inner profile slot, flexible wire 4 mm², 200 mm long, green/yellow
- Suitable for screed-flush floor trunking with sealing option

Designation	PU	Order no.
Earth conductor clamp for underfloor trunking	1	**BKZSAK00**

BKZM203

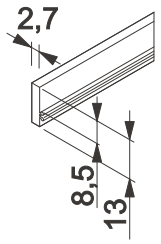
Sponge rubber strip

Properties:
- Sponge rubber strip for absorbing expansion pressure, self-adhesive, for installation on-site on the side profiles
- 2 metres of sponge rubber required for each metre of trunking
- Always coordinate use of the sponge rubber strips with the screed layer.

Designation	PU	Order no.
Sponge rubber strip, 20 x 3mm, self-adhesive	1	**BKZM203**

BKZBSK7011

Abutting edge for covering

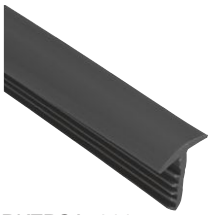


Properties:
- If required
- The abutting edge for the covering can be used visibly (height 4 mm) or concealed by the floor covering.
- 2 metres of abutting edge for covering required for each metre of trunking
- Abutting edge for covering with a height of 3.2 mm available on request

Material:
- PC/ABS halogen-free

Available colours:
- RAL7011, iron grey
- RAL9005, deep black

Designation	PU	Order no.
Abutting edge for covering height 4 mm PC/ABS hal.-free, eg	2	**BKZBSK7011**
Abutting edge for covering height 4 mm PC/ABS hal.-free, ts	2	**BKZBSK9005**



BKZBSA7011

Butt joint cover:

Properties:
- To meet additional demand
- Remove factory-fitted abutting edge
- 2 metres of butt joint cover required for each metre of trunking

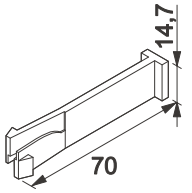
Designation	PU	Order no.
Butt joint cover PVC iron grey	2	**BKZBSA7011**

BKZEA00

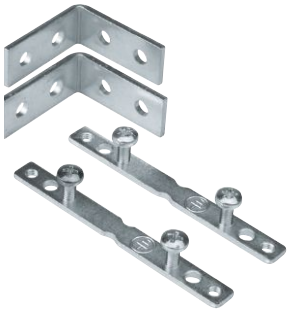
Screed anchor

Properties:
- For stabilising the trunking side profiles
- For snapping into the trunking side profile
- Max. installation gap between screed anchors is 800 mm along the side profile.

Material:
- PA6



Designation	PU	Order no.
Screed anchor, plastic PA6	1	**BKZEA00**

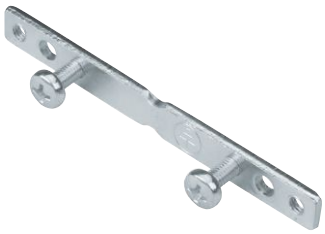


BKZVS90

Connection set

Properties:
- For use as additional installation material in order to create 90° branches on-site using the existing trunking material.
- Comprises 2 outer angled connectors 18 mm, 2 straight trunking connectors and 2 screws M5 x 12

Designation	PU	Order no.
Connection set for 90 deg. branch, steel	1	**BKZVS90**



BKZKV180

Trunking connector straight

Properties:
- If required

Designation	PU	Order no.
Underfloor trunking connector straight 180 deg. steel	1	**BKZKV180**

BKZKV090

Trunking connector angled

Properties:
- If required

Designation	PU	Order no.
Underfloor trunking connector angled 90 degrees, steel	1	**BKZKV090**

BKZN030

Levelling clamp

Properties:
- Levelling clamp for mounting set screws
- External assembly on the side profile of screed-flush trunking with a straight trunking connector and two screws
- Maximum installation distance between levelling clamps 800 mm along the trunking side profile

Material:
Steel, electroplated

	From height of ducting with footfall sound insulation mountings
BKZN30	**45 mm**
BKZN50	**65 mm**

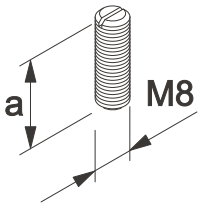
Designation	PU	Order no.
Lev. clamp for mounting lev. studs Lev. height 45	1	**BKZN030**
Lev. clamp for mounting lev. studs Lev. height 65	1	**BKZN050**

BKZNS25

Set screws

Properties:
- Set screw M8 for elevating the screed-flush trunking, for screwing into the levelling clamp or cross member

Note:
- Set screws that protrude above the upper edge of the screed or cross member must be shortened.
- Other heights available on request



Designation	Length a	PU	Order no.
Set screw M8 x 25, levelling height 25 mm		1000	**BKZNS25**
Set screw M8 x 30, levelling height 30mm		100	**BKZNS30**
Set screw M8 x 35, levelling height 35mm		1	**BKZNS35**
Set screw M8 x 40, levelling height 40mm		2500	**BKZNS40**
Set screw M8 x 45, levelling height 45mm		2500	**BKZNS45**
Set screw M8 x 50, levelling height 50mm		1500	**BKZNS50**
Set screw M8 x 55, levelling height 55mm		1500	**BKZNS55**
Set screw M8 x 60, levelling height 60mm		1500	**BKZNS60**
Set screw M8 x 65, levelling height 65mm		600	**BKZNS65**
Set screw M8 x 70, levelling height 70mm		1000	**BKZNS70**
Set screw M8 x 75, levelling height 75mm		1500	**BKZNS75**
Set screw M8 x 80, levelling height 80mm		1200	**BKZNS80**
Set screw M8 x 85, levelling height 85mm		500	**BKZNS85**
Set screw M8 x 90, levelling height 90mm		250	**BKZNS90**
Set screw M8 x 100, levelling height 100mm		500	**BKZNS100**
Set screw M8 x 120, levelling height 120mm		500	**BKZNS120**
Set screw M8 x 140, levelling height 140mm		400	**BKZNS140**
Set screw M8 x 160, levelling height 160mm		200	**BKZNS160**

BKZKM80

Lock nut M8

Properties:
- Nut M8 for locking set screws in cross members

Designation	PU	Order no.
Lock nut M8 for locking h.-adj. pin	1	**BKZKM80**

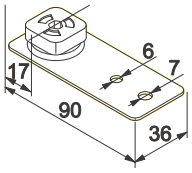
BKZHP00

Retaining tab with insulating mount

Properties:
- Retaining tab with insulating mount for fastening of the screed-flush trunking on the bare floor for footfall sound-insulated installation of set screws M8

Material:
- Retaining tabs made of galvanised steel in accordance with DIN EN 10327
- Insulating mount made of plastic

Note:
- When using retaining tabs with insulating mounts, the minimum installation height for the trunking is 45 mm.

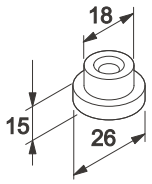


Designation	PU	Order no.
Retaining tab made of steel, with insulating mount	1	**BKZHP00**

BKZNSD0

Insulating mount for cross member

Properties:
- Insulating mount for footfall sound-insulated mounting of set screws M8 in cross members
- The insulating mount increases the levelling height by 5 mm



Designation	PU	Order no.
Insulating mount for set screws	1	**BKZNSD0**

BKZSH20

Suction lifter, max. load capacity 20 kg

Properties:
- For lifting blank covers

Designation	PU	Order no.
Suction lifter for blank covers (max. weight 20 kg)	10	**BKZSH20**

BKZSH30

Suction lifter, max. load capacity 30 kg

Properties:
- For lifting blank covers

Designation	PU	Order no.
Suction lifter for blank covers (max. weight 30 kg)	1	**BKZSH30**

BKZKH30

Claw lifter, max. load capacity 30 kg

Properties:
- For lifting blank covers

Designation	PU	Order no.
Claw lifter for blank covers, max. 30 kg	1	**BKZKH30**

tehalit.BKB is designed for installation along walls or window fronts for screed-flush floor installations. Installation with a closed upper part is also possible within a room. The trunking system comes with an upper part with a closed design, a brush and an LED chamber with brush.

Product features
- Suitable for dry-cleaned floors in accordance with DIN EN 50085
- Suitable for floor coverings with a thickness ranging from 5 to 25 mm
- The upper part can be covered with dry-cleaned floor coverings (carpet, parquet flooring, laminate,…) or with wet-cleaned floor coverings (natural stone, marble, tiles,…). Due to the open design, the trunking system is only suitable for dry-cleaned rooms.
- Floor covering is glued onto the cover
- Recommended minimum height of trunking = minimum screed height = 96 mm
- Do not forget the edge insulation strip between the trunking and the screed!
- It may be necessary to install sound insulation at the transition between office units (sound insulation barrier, product no. L5804, see catalogue 'Leitungsführung + Raumanschlusssysteme')
- A trunking firewall (BS90SET) must be installed when routing the trunking through fire safety walls
- Other trunking heights and widths available on request
- Height levelling via internally accessible adjustment screws
- Easy access to cables and sockets is provided via the removable upper part and via the cable outlet on the wall side on upper parts with a brush. Length of the upper parts: 1 m, length of the trunking bottom part: 2 m.
- Also available as closed trunking without a cable outlet for installation in areas that people walk in
- Withstands point loads of up to 150 kg (in accordance with the relevant standard)
- Separate delivery of the lower part (always with fitting frame) and 3 different upper parts (with brush, closed, with brush and LED compartment)

Advantages
- Investors can split investment requirements into separate construction and building equipment management phases.
- Users benefit from great application and upgrade flexibility with an almost invisible energy and data network infrastructure
- Simplified planning process through integration of group connection points or device installation
- Separate delivery of upper and lower parts – allowing basic installation in the preliminary building works phase and completion in the final construction phase
- Suitable upper parts can be used freely to match the final placement of furniture.
- Upper and lower parts are delivered separately, but the lower part is always supplied with a fitting frame to prevent the risk of personal injury during preliminary building works.
- Installation depends on the way the office space is divided up and used.
- Easy options for changing the energy and data network infrastructure once the system is in use.
- Removable covers offer access to the installation space.
- Can be combined with Hager system components
- Also suitable for use in the home for energy, media and data connection systems+

Device installation
- Group connection points for energy and data network
- All products from the installation device range, e. g.

- Energy distribution
- Sockets
- Overvoltage protection
- Network connections
- Antenna sockets
- Also suitable for installation of Electraplan devices

Line occupancy (guide values)
- Compartment 1: 31 x ø11 mm; e. g. 3 x 1.5 mm²
- Compartment 2: 25 x ø11 mm; e. g. 3 x 1.5 mm²

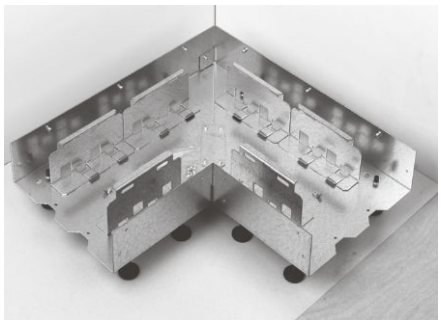
Installation concept

Preliminary building works phase
1. Installation of the tehalit.BKB system along outer walls or glass fronts in the screed flooring. If possible, a direct connection should be made between the tehalit.BKB system and the cable distribution room or the sub-distribution.
2. Basic installation of the energy and data network infrastructure in the tehalit.BKB system via group connection points. The distribution and number of group connection points depends on the required volume of equipment in the office space (at least 1 group connection point for every 20 to 40 m²).
3. Ensure the installation is compliant with the following standards by using group connection points or conventional connections:

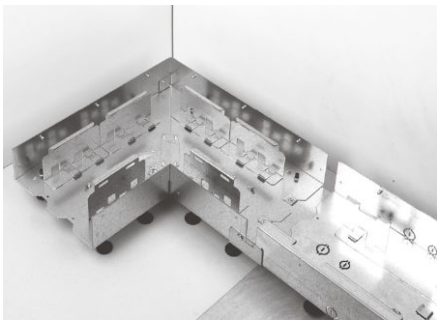
- Energy distribution systems: DIN VDE 0634 Part 1 and Part 2, DIN VDE 0100 (in particular Part 520), DIN VDE 0105,
- Data network systems: Structured cabling in accordance with EN 50173-1, EN 50173-4, EN 50174-2

Final construction phase
1. Individual installation only once the room layout and usage have been defined
2. Connection of consumers close to walls directly via the group connection points (no additional installation components required)
3. Connection of consumers out in the open using additional Hager system components
4. Pluggable connection systems for safe and reliable installations

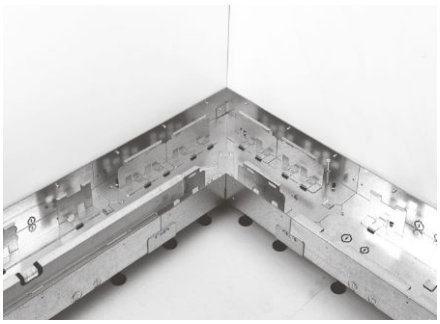
Usage phase
5. Flexible and quick changes can be made to the energy and data cabling if the room layout or usage change.
6. Optional installation of plinths



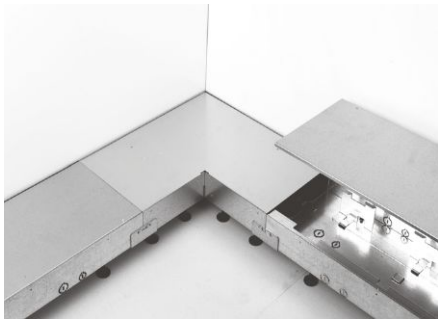
1. Screw in the set screws with or without insulating mounts.
2. Align the trunking lower part or inner/outer corner on the wall side.



3. Joints are connected via couplings. The ends of the trunking are sealed off with end pieces. No screed must be allowed to penetrate inside the trunking. A conductive connection is established between the coupling and the lower parts using the screws enclosed in the packaging of the coupling.



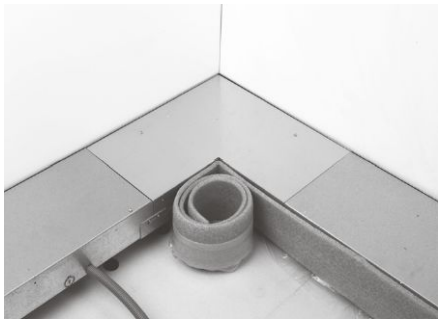
4. Levelling of the trunking. The trunking itself forms the binding setting edge for the screed, so the levelling process must be coordinated with the company laying the screed. Minimum recommendation: 4 levelling screws per running meter.



5. Secure the trunking on the bare floor using fastening screws.
   Minimum recommendation: 2 fastening screws per running meter.
6. Lay the fitting frame in position.

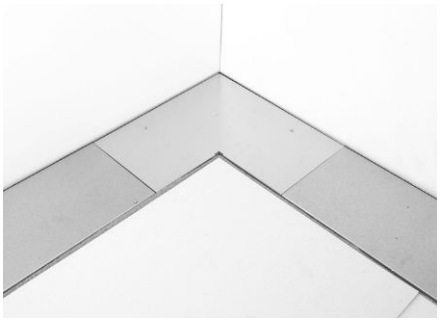
7. If necessary connect empty tubes; open the cut-outs beforehand with a slotted screwdriver. Empty pipes can be connected on four sides.

8. Screw in the fitting frame using the drilling screws enclosed with the trunking (in the attached foil packaging). These are screwed directly through the bores in the fitting frame into the support of the lower trunking part (without pre-drilling).



8. Attach the wall insulation strip on the side of the trunking facing the screed (make sure that no screed runs under the trunking). Special precautions must be taken when using floating screed, hot screed or aggressive screed. Depending on the floor covering (e. g. liquid material) it may be necessary to consult the manufacturer.

9 If necessary, support the side of the trunking facing the screed to prevent the side wall from bending under the pressure of the screed. The screed layer needs to work the screed cleanly and carefully up to the level of the top edge of the trunking. Make sure that no screed or parts of the floor covering (e. g. liquid material) can run into the trunking.



10. Screed installation

11. All metallic parts of the trunking system must be covered by VDE-compliant protection measures.

12. Application of the floor covering (0-25 mm).

13. Floor covering adjustment – version 1 with brush:
    The outlet brush supplied with the upper part is attached to the wall side of the trunking lower part and adjusted in the same way as the floor covering stop attached to the trunking lower part to the corresponding height of the floor covering by pushing it upward or downward, after which it is then tightened in place using a 3-mm Allen key (not included in the delivery package).

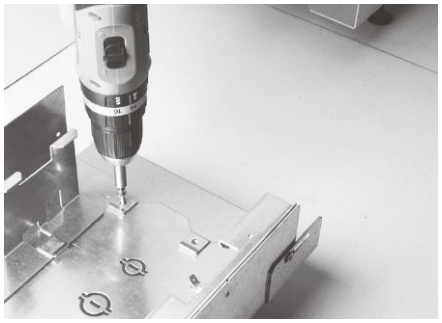
14. Floor covering adjustment – version 2 closed:
    The floor covering stop supplied with the upper part and the support for the upper part are attached to the wall side of the trunking lower part and adjusted in the same way as the floor covering stop attached to the trunking lower part to the corresponding height of the floor covering by pushing them upward or downward, after which they are then tightened in place using a 3-mm Allen key (not included in the delivery package).s Note: the "support rake" (system carrier) in the lower part needs to be moved to allow the upper part to fit.

15. Floor covering adjustment – version 2 with LED:
    The outlet brush supplied with the upper part is attached to the wall side of the trunking lower part and adjusted in the same way as the floor covering stop attached to the trunking lower part to the corresponding height of the floor covering by pushing it upward or downward, after which it is then tightened in place using a 3-mm Allen key (not included in the delivery package).
    Note: the "support rake" (system carrier) in the lower part needs to be moved to allow the upper part to fit correctly.

Advantages of the tehalit.BKB system
The balustrade floor trunking offers many advantages in day-to-day use: even in areas without walls, connections can be made available wherever they are required. The installation is concealed and therefore has no impact on the overall appearance of the office space. Excess connecting cable lengths or data network components can be easily hidden in the trunking, so there are no loose lines that get in the way in the room.
If you decide to change the way the office space is used at a later date, this is no problem thanks to the removable covers of the tehalit.BKB system, which offer easy access to lines, devices and group collection points. Retrofit installations are thus possible at any time. The selection of upper parts can be adapted at any time to meet the changing requirements of tenants or owners.

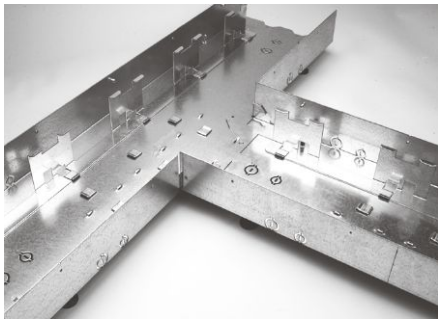
T-piece installation instructions

1. To produce the T-piece, you will only need the shaped part shown above and a jig saw to create the 250 mm cut-out in the trunking. **Caution! Before cutting out the marked cut-out, remove the support for the upper part and the floor stop rail.** These two parts are refitted after completion of the cut-out to ensure optimum support for the upper part and to achieve a clean transition to the floor covering.

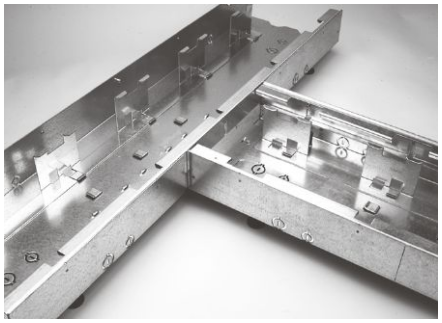


2. The tabs protruding flat to the rear are inserted into the trunking lower part that is to be connected and then screwed to the trunking using the enclosed self-tapping screws.

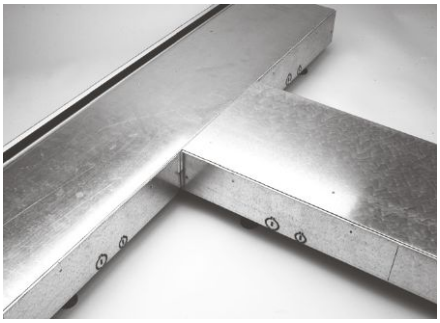
3. The tabs protruding to the sides are inserted into the trunking lower part that is to be branched off and screwed into the trunking with the enclosed drilling screws.



4. The trunking lower parts are aligned once the screws have been screwed in.



5. The stop profiles are then installed.



6. Installation of the fitting frame.

Cable insulation
For installation in walls and floors for fire resistance classification S90 in accordance with DIN4102.
Building inspectorate approval: Approval no.: Z19.15-1256

Min. firewall length 150 mm

Form of delivery:
BS90SET comprising of
1 Fire protection foam can (BS90D)
1 Shaped part (BS90F)
1 Valve tongs (BS90Z)
3 Spray tubes with adapter (BS90S)
2 Identification signs
1 AbZ, approval no.: Z19.15-1256
1 Installation instructions

Yield: approx. 2,100 cm³

BS90S
3 Spray pipes with adapter

BS90D
1 Fire safety foam can
(Only to be used in conjunction with valve tongs BS90Z and spray tubes BS90S)

Yield: approx. 900 cm³

BS90Z
1 Valve tongs

BS90F
1 Shaped part

Yield: approx. 1,200 cm³

2-component silicone fire protection foam S90
Requirements calculation table for cable fire partitioning

Trunking type	Volume in cm³	Trunking without line occupancy	Trunking with maximum line occupancy
BKB25085	3.188	1.0 set + 1.0 socket	1.4 socket

Sound barrier

Sound barrier L5804
Maximum fill level of empty trunking

Trunking types	Pigtails
BKB25085	25

Floor trunking

Identifier	Type	Trunking width Nominal size	Levelling range
BK = floor trunking	X	Y	Z
	F = with foil W = with trunking bottom FD = with foil and sealing option WD = with trunking bottom and sealing option	150 200 250 300 350 400 500 600	(foil) 045 = 45 - 70 mm 065 = 65 - 110 mm 105 = 105 - 150 mm 145 = 145 - 190 mm (trunking bottom) 040 = 40 - 60 mm 050 = 50 - 70 mm 060 = 60 - 100 mm 070 = 70 - 110 mm 080 = 80 - 120 mm 090 = 90 - 130 mm

Floor trunking sealing end piece

Identifier	Type	Type	Trunking width Nominal size	Levelling range
BK = floor trunking	W	X	Y	Z
	F = with foil W = with trunking bottom FD = with foil and sealing option WD = with trunking bottom and sealing option	V = sealing piece E = end piece	150 200 250 300 350 400 500 600	(trunking bottom) 040 = 40 - 60 mm 050 = 50 - 70 mm 060 = 60 - 100 mm 070 = 70 - 110 mm 080 = 80 - 120 mm 090 = 90 - 130 mm

Floor trunking covers

Identifier	Type	with sealing option	Trunking width Nominal size	Type of blanking
BK = floor trunking	W A = cover	X = standard (without sealing tape) D = for sealing tape	Y 150 200 250 300 350 400 500 600	Z = without blanking GBZ = blanking GBZ round 50 mm R06 = blanking R06 round 215 mm R10 = blanking R10 round 275 mm R12 = blanking R12 round 306 mm Q06 = blanking Q06 200 x 200 mm Q08 = blanking Q08 294 x 294 mm Q12 = blanking Q12 244 x 244 mm E04 = blanking E04 147 x 247 mm E09 = blanking E09 200 x 253 mm

Floor trunking cross members

Identifier	Type	with sealing option	Trunking width Nominal size
BK = floor trunking	X	Y	Z
	T = cross member TM = cross member with centre support	N = standard (without sealing strip) D = for sealing tape	150 200 250 300 350 400 500 600

Floor trunking junction boxes

Identifier	Type	Type of blanking
BK = floor trunking	Y	Z
	SA = side junction box	B00 = without blanking G00 = blanking GBZ round 50 mm R06 = blanking R06 round 215 mm R10 = blanking R10 round 275 mm R12 = blanking R12 round 306 mm Q06 = blanking Q06 200 x 200 mm Q08 = blanking Q08 294 x 294 mm Q12 = blanking Q12 244 x 244 mm E04 = blanking E04 147 x 247 mm E09 = blanking E09 200 x 253 mm

Floor trunking junction boxes – levelling set

Identifier	Type	Addition	Levelling range
BK = floor trunking	X	Y	Z
	SA = side Junction box	N = levelling set	045070 = 45 - 70 mm 065110 = 65 - 110 mm 105150 = 105 - 150 mm 145190 = 145 - 190 mm

Floor trunking partition walls

Identifier	Type	Material	Nominal height
BK = floor trunking	X	Y	Z
	TW = partition wall	K = plastic - PS F00 = plastic foot S = steel panel	(plastic) 16 = 16 mm – for trunking height 30 mm 31 = 31 mm – for trunking height 45 mm 46 = 46 mm – for trunking height 60 mm 61 = 61 mm – for trunking height 75mm 76 = 76 mm – for trunking height 90 - 100 mm 91 = 91 mm – for trunking height 105 - 120 mm (sheet metal) 20 = 20 mm – for trunking height 45 mm 35 = 35 mm – for trunking height 60 mm 50 = 50 mm – for trunking height 75 mm 65 = 65 mm – for trunking height 90 mm 80 = 80 mm – for trunking height 100 mm 95 = 95 mm – for trunking height 105 mm 110 = 110 mm – for trunking height 120 mm

Floor trunking accessories

Identifier	Type	Type	Colour/angle/height/length
BK = floor trunking	X	Y	Z
	Z = accessories	SA = earth connection SAK00 = earth conductor clamp M = sponge rubber strips BSK = abutting edge for covering BSA = butt joint cover EA00 = screed anchor VS = connection set KV = trunking connector N = levelling clamp NS = set screw KM = lock nut HP00 = retaining tab NSD0 = soundproofing mount for set screws SH = suction lifter KH = claw lifter	200 = length 200 mm 203 = 20 x 3 mm 7011 = RAL 7011, iron grey 9005 = RAL 9005, deep black 7011 = RAL 7011, iron grey 90 = angled, 90 degrees 180 = straight, 180 degrees 090 = angled, 90 degrees 030 = from trunking height 30 050 = from trunking height 50 25 - 160 = levelling height 80 = for M8 20 = load-bearing capacity up to 20 kg 30 = load-bearing capacity up to 30 kg 30 = load-bearing capacity up to 30 kg

General description

The screed-flush trunking system offers covers that can be opened continuously along the full length of the trunking. The screed is installed flush to the top of the trunking. The height of the complete screed-flush trunking system can be adjusted via a stepless adjustment. Once fully installed, the trunking covers can be opened at any time. This means that it is no problem at all to install cables or lines at a later date. It is also possible to fit installation units or pedestal boxes through the installation openings in the trunking covers. When using trunking junction boxes, this system offers the advantage that smaller trunking cross-sections can be chosen as the entire interior of the trunking is available for lines to be inserted. Screed-flush trunking is available for dry and wet-cleaned floors with a flexible foil casing or with a sheet metal bottom. Factory-fitted footfall sound insulation and the freedom to use any preferred floor covering means that this system also meets the highest requirements in terms of flexibility.

This height-adjustable system is perfect for all applications in which the final installation details are not yet clear or in which the highest possible degree of flexibility is to be retained. Thanks to their width of up to 600 mm, these trunkings are used where a high number of lines is required. This screed-flush trunking is used in production halls with bare floors as well as in office and administration buildings where the floor coverings are glued onto the trunking covers. Due to its low height, the trunking system can be installed in screeds with very low profiles starting from 40 mm.

BKF trunking with foil casing for dry-cleaned floors

Properties:
- Suitable for dry-cleaned floors
- Easy and flexible installation
- Flexibility to other areas of installation, e.g. transverse heating pipes or ducts
- Entire internal space is available to hold lines

BKF trunking with trunking bottom for dry-cleaned floors

Properties:
- Suitable for dry-cleaned floors
- Easy access to the lines
- Clean installation is possible, lines are protected against dust and dirt

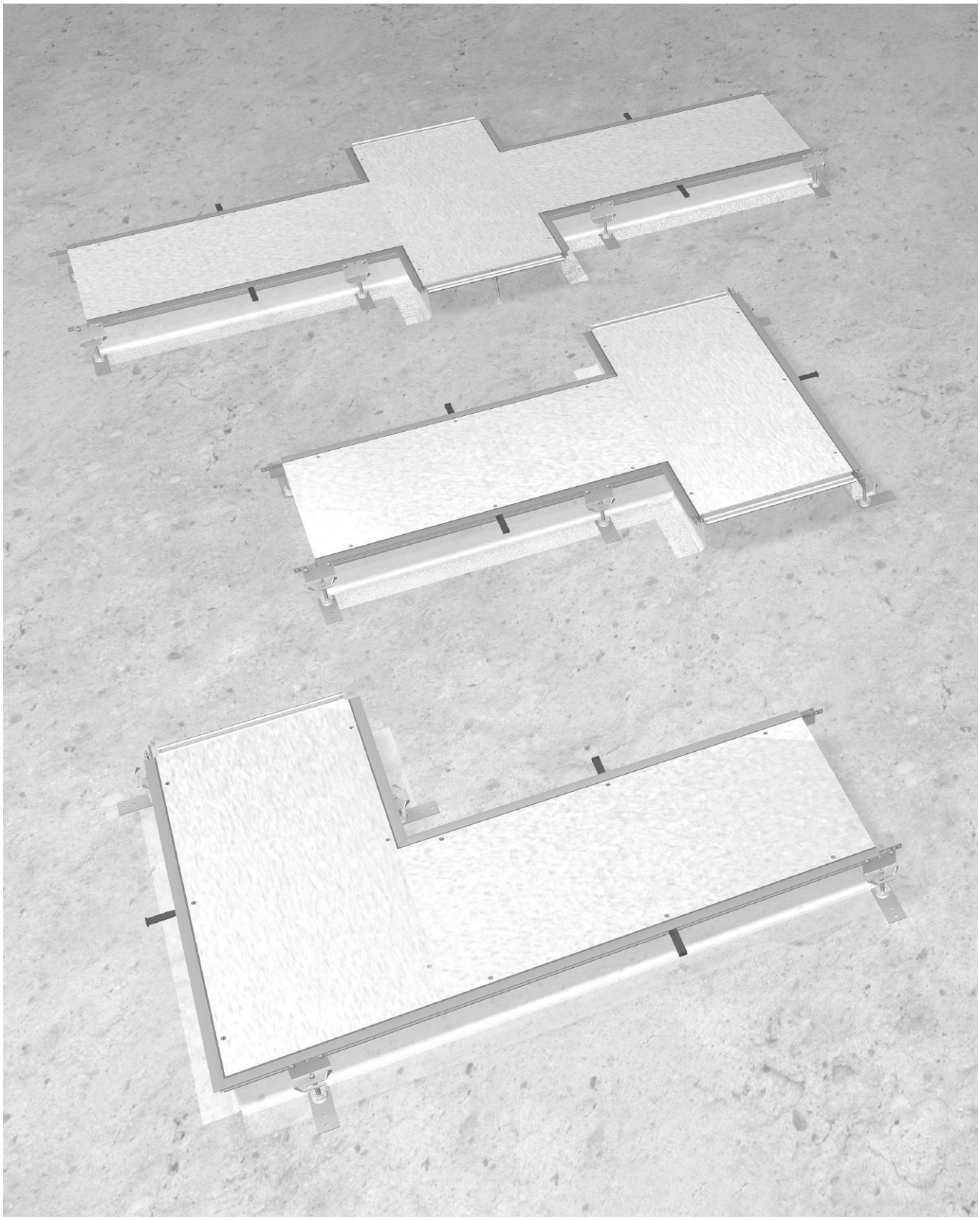
BKFD trunking with foil casing and sealing option

Properties:
- Suitable for wet-cleaned floors
- Easy and flexible installation
- Flexibility to other areas of installation, e.g. transverse heating pipes or ducts
- Entire internal space is available to hold lines

BKWD trunking with trunking bottom and sealing option

Properties:
- Suitable for wet-cleaned floors
- Easy access to the lines
- Clean installation is possible, lines are protected against dust and dirt

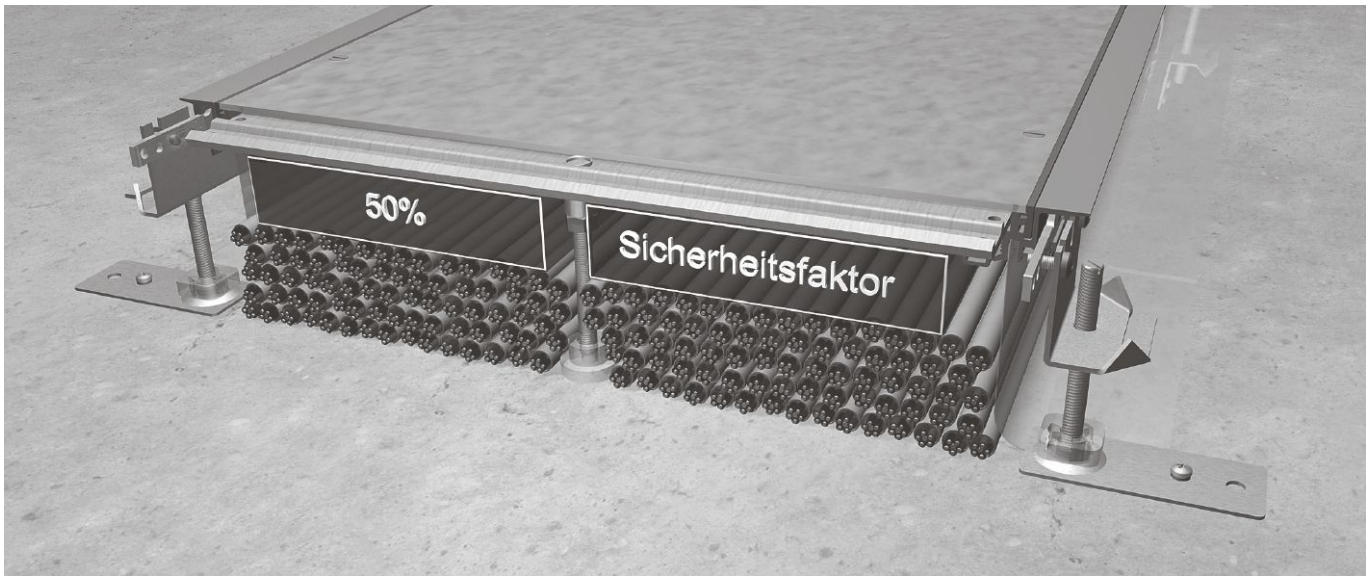
Available on request.
Ready-assembled shaped parts are available on request.
They can be assembled with the standard trunking on-site following the building-block principle. The different sizes can be fed off from the standard trunking. Shaped parts are supplied with factory-fitted levelling clamps. Footfall sound insulation and set screws are included in the accessories package.



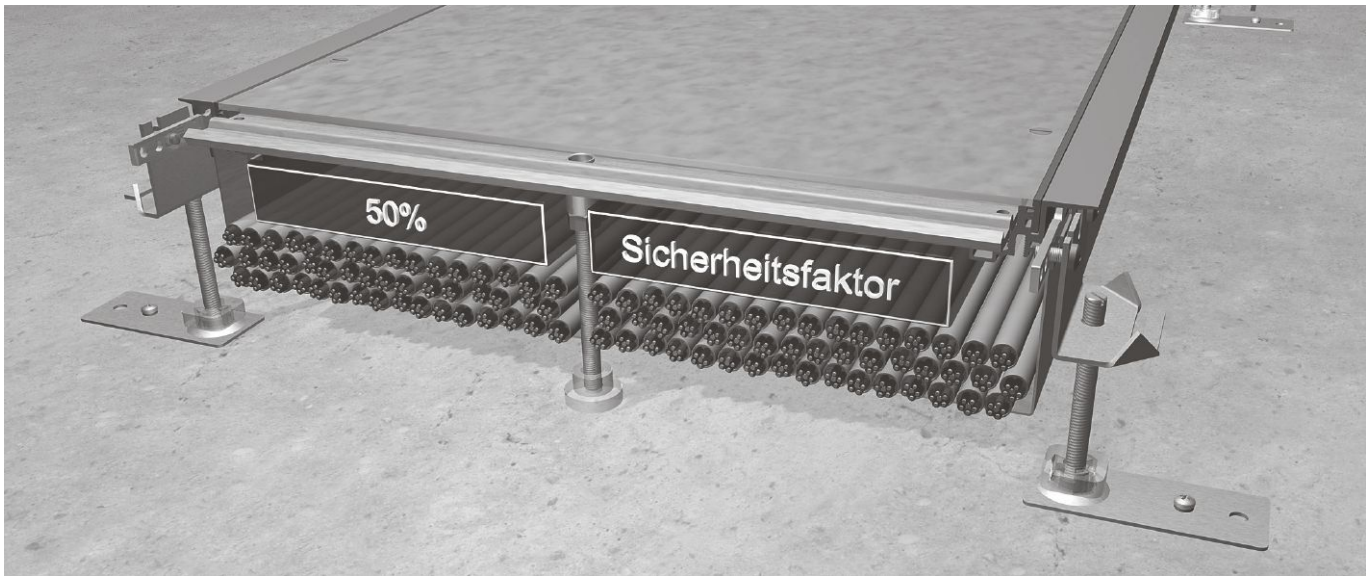
Determining the line volume

The line volume must be known in order to define the correct trunking size. In practice, lines never run perfectly in parallel and side-by-side in a way that would ensure maximum space utilisation. This is why the formula $(d)^2$, i.e. the diameter squared, must be applied.

This is why the formula $(d)^2$, i.e. the diameter squared, must be applied. To ensure sufficient space for possible later retrofitting, trunking ducts should only be filled to 50% of their volume. This also makes it easier to pull the lines into the trunking. Also, it must be noted that the calculation does not take into account bottom troughs and outlets that possibly interrupt the line path.



Order number	Height max. mm	Usable cross-section cm²	Line diameter in mm															
			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BKF150045	70	77	154	106	78	60	47	38	31	26	22	19	17	15	13	11	10	9
BKF150065	110	121	242	168	123	94	74	60	50	42	35	30	26	23	20	18	16	15
BKF150105	150	165	330	229	168	128	101	82	68	57	48	42	36	32	28	25	22	20
BKF150145	190	209	418	290	213	163	129	104	86	72	61	53	46	40	36	32	28	26
BKF200045	70	112	224	155	114	87	69	56	46	38	33	28	24	21	19	17	15	14
BKF200065	110	176	352	244	179	137	108	88	72	61	52	44	39	34	30	27	24	22
BKF200105	150	240	480	333	244	187	148	120	99	83	71	61	53	46	41	37	33	30
BKF200145	190	304	608	422	310	237	187	152	125	105	89	77	67	59	52	46	42	38
BKF250045	70	147	294	204	150	114	90	73	60	51	43	37	32	28	25	22	20	18
BKF250065	110	231	462	320	235	180	142	115	95	80	68	58	51	45	39	35	31	28
BKF250105	150	315	630	437	321	246	194	157	130	109	93	80	70	61	54	48	43	39
BKF250145	190	399	798	554	407	311	246	199	164	138	118	101	88	77	69	61	55	49
BKF300045	70	182	364	252	185	142	112	91	75	63	53	46	40	35	31	28	25	22
BKF300065	110	286	572	397	291	223	176	143	118	99	84	72	63	55	49	44	39	35
BKF300105	150	390	780	541	397	304	240	195	161	135	115	99	86	76	67	60	54	48
BKF300145	190	494	988	686	504	385	304	247	204	171	146	126	109	96	85	76	68	61
BKF350045	70	217	434	301	221	169	133	108	89	75	64	55	48	42	37	33	30	27
BKF350065	110	341	682	473	347	266	210	170	140	118	100	86	75	66	58	52	47	42
BKF350105	150	465	930	645	474	363	287	232	192	161	137	118	103	90	80	71	64	58
BKF350145	190	589	1178	818	601	460	363	294	243	204	174	150	130	115	101	90	81	73
BKF400045	70	252	504	350	257	196	155	126	104	87	74	64	56	49	43	38	34	31
BKF400065	110	396	792	550	404	309	244	198	163	137	117	101	88	77	68	61	54	49
BKF400105	150	540	1080	750	551	421	333	270	223	187	159	137	120	105	93	83	74	67
BKF400145	190	684	1368	950	697	534	422	342	282	237	202	174	152	133	118	105	94	85
BKF500045	70	322	644	447	328	251	198	161	133	111	95	82	71	62	55	49	44	40
BKF500065	110	506	1012	702	516	395	312	253	209	175	149	129	112	98	87	78	70	63
BKF500105	150	690	1380	958	704	539	425	345	285	239	204	176	153	134	119	106	95	86
BKF500145	190	874	1748	1213	891	682	539	437	361	303	258	222	194	170	151	134	121	109
BKF600045	70	392	784	544	400	306	241	196	161	136	115	100	87	76	67	60	54	49
BKF600065	110	616	1232	855	628	481	380	308	254	213	182	157	136	120	106	95	85	77
BKF600105	150	840	1680	1166	857	656	518	420	347	291	248	214	186	164	145	129	116	105
BKF600145	190	1064	2128	1477	1085	831	656	532	439	369	314	271	236	207	184	164	147	133



Order number	Height max. mm	Usable cross-section cm²	Line diameter in mm															
			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BKW150040	28	37.5	75	52	38	29	23	18	15	13	11	9	8	7	6	5	5	4
BKW150050	38	50.9	101	70	51	39	31	25	21	17	15	12	11	9	8	7	7	6
BKW150060	48	64.3	128	89	65	50	39	32	26	22	19	16	14	12	11	9	8	8
BKW150070	58	77.7	155	107	79	60	47	38	32	26	22	19	17	15	13	11	10	9
BKW200060	48	88.3	176	122	90	69	54	44	36	30	26	22	19	17	15	13	12	11
BKW200070	58	106.7	213	148	108	83	65	53	44	37	31	27	23	20	18	16	14	13
BKW200080	68	125.1	250	173	127	97	77	62	51	43	37	31	27	24	21	19	17	15
BKW200090	78	143.5	287	199	146	112	88	71	59	49	42	36	31	28	24	22	19	17
BKW250060	48	112.3	224	156	114	87	69	56	46	39	33	28	24	21	19	17	15	14
BKW250070	58	135.7	271	188	138	106	83	67	56	47	40	34	30	26	23	20	18	16
BKW250080	68	159.1	318	221	162	124	98	79	65	55	47	40	35	31	27	24	22	19
BKW250090	78	182.5	365	253	186	142	112	91	75	63	54	46	40	35	31	28	25	22
BKW300060	48	136.3	272	189	139	106	84	68	56	47	40	34	30	26	23	21	18	17
BKW300070	58	164.7	329	228	168	128	101	82	68	57	48	42	36	32	28	25	22	20
BKW300080	68	193.1	386	268	197	150	119	96	79	67	57	49	42	37	33	29	26	24
BKW300090	78	221.5	443	307	226	173	136	110	91	76	65	56	49	43	38	34	30	27
BKW350060	48	160.3	320	222	163	125	98	80	66	55	47	40	35	31	27	24	22	20
BKW350070	58	193.7	387	269	197	151	119	96	80	67	57	49	43	37	33	29	26	24
BKW350080	68	227.1	454	315	231	177	140	113	93	78	67	57	50	44	39	35	31	28
BKW350090	78	260.5	521	361	265	203	160	130	107	90	77	66	57	50	45	40	36	32
BKW400060	48	184.3	368	256	188	144	113	92	76	64	54	47	40	36	31	28	25	23
BKW400070	58	222.7	445	309	227	174	137	111	92	77	65	56	49	43	38	34	30	27
BKW400080	68	261.1	522	362	266	204	161	130	107	90	77	66	58	51	45	40	36	32
BKW400090	78	299.5	599	416	305	234	184	149	123	104	88	76	66	58	51	46	41	37
BKW500060	48	232.3	464	322	237	181	143	116	96	80	68	59	51	45	40	35	32	29
BKW500070	58	280.7	561	389	286	219	173	140	116	97	83	71	62	54	48	43	38	35
BKW500080	68	329.1	658	457	335	257	203	164	136	114	97	83	73	64	56	50	45	41
BKW500090	78	377.5	755	524	385	294	233	188	156	131	111	96	83	73	65	58	52	47
BKW600060	48	280.3	560	389	286	219	173	140	115	97	82	71	62	54	48	43	38	35
BKW600070	58	338.7	677	470	345	264	209	169	139	117	100	86	75	66	58	52	46	42
BKW600080	68	397.1	794	551	405	310	245	198	164	137	117	101	88	77	68	61	55	49
BKW600090	78	455.5	911	632	464	355	281	227	188	158	134	116	101	88	78	70	63	56

General instructions:

DIN standard
System components must be included in the earthing measures in accordance with DIN VDE 0100.

Support
If trunking bottoms are used, they must be supported from below to prevent deformation.

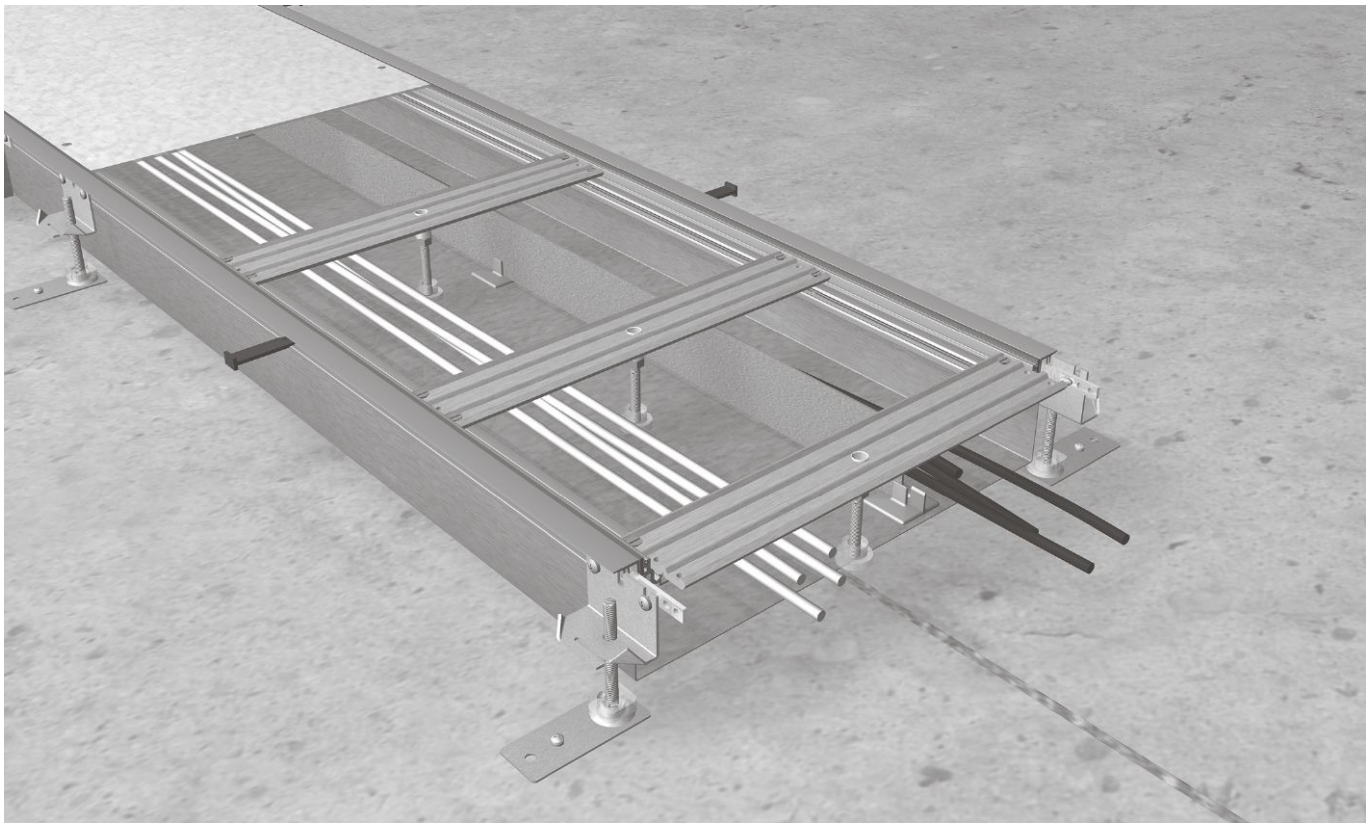
Sealing
Gaps must be sealed against screed ingress.
The flexible screed casing must not have any contact with hot screed.

Protection
Protective measures must be coordinated with the screed layer.

No load
Do not remove the cross members and do not impose any mechanical loads or walk on the trunking system before the screed has hardened.

Protective covers
Protective covers of service outlets must not be removed until right before flooring installation.

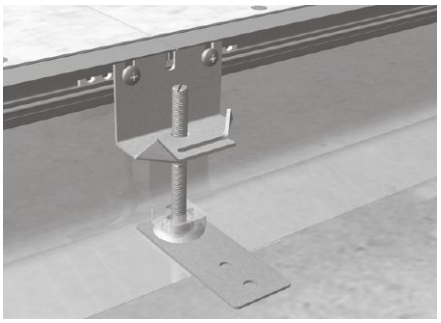
Further instructions
Ensure that the installation instructions for the screed layers and the flooring fitters are observed and that they are passed on to the contractors responsible before laying the flooring.



Mark the trunking routing

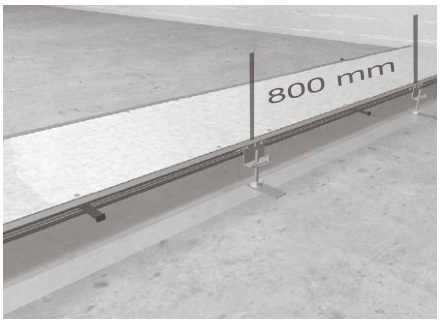
Mark the trunking routing on the slab according to the installation plan using chalk or string. Check the actual levelling heights on the slab.

Assemble the levelling sets



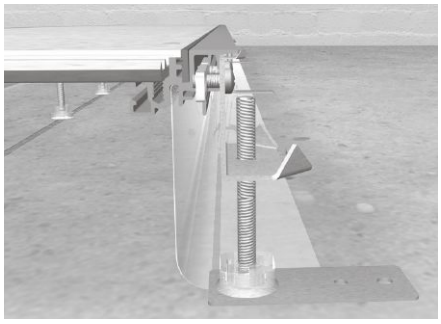
Install the M8 set screws into the levelling clamps. Place brackets with insulating mounts on a level and firm surface and push in the set screws.

Position the levelling sets



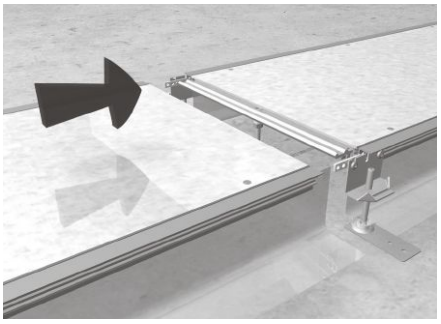
The levelling clamps should be spaced at 800 mm along the trunking lateral profile. Roughly adjust the levelling height.

Adjust the screed casing



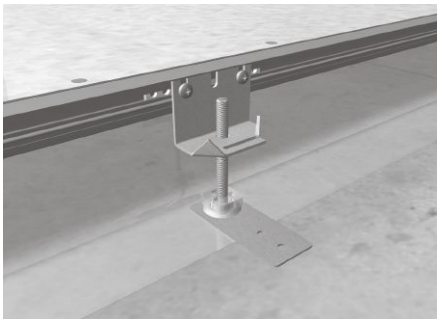
The screed casing must be outside the trunking, extending from the trunking lateral profile downward and vertically outward onto the slab. The retaining tabs rest on the horizontal part of the casing, pressing it onto the slab.

Join the trunking sections



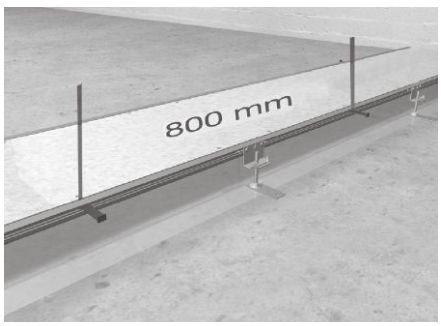
At the joints of the trunking sections, push the pre-assembled cross members halfway under the cover of the subsequent trunking section. At this section, slacken the cover screw and butt-join the sections.

Secure the trunking sections



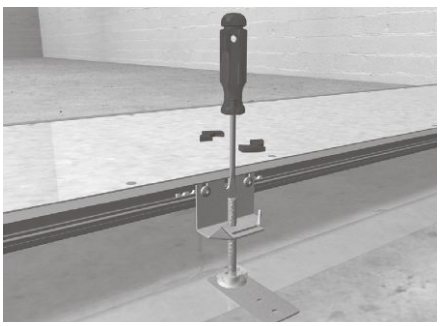
Connect the sections using trunking connector, levelling clamp and M5 bolts. Tighten the cover screws. The flexible screed casing must overlap at the section joint.

Snap in the screed anchor



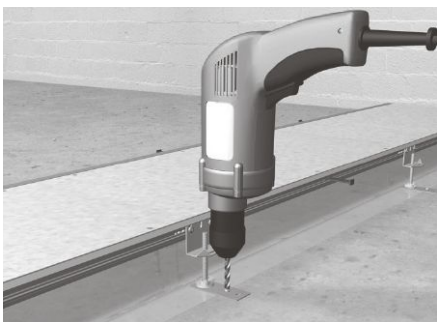
Snap the screed anchor into the profile groove to stabilise the trunking lateral profiles. The spacing along the lateral profiles must not exceed 800 mm.

Level the trunking



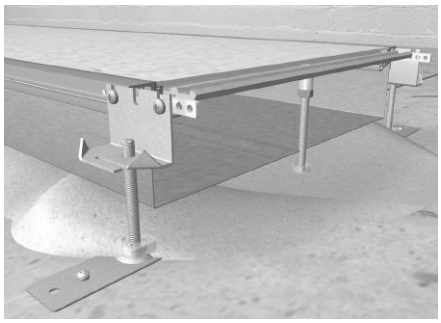
Adjust the top edge of the trunking lateral profile to the required height.

Secure the retaining tabs



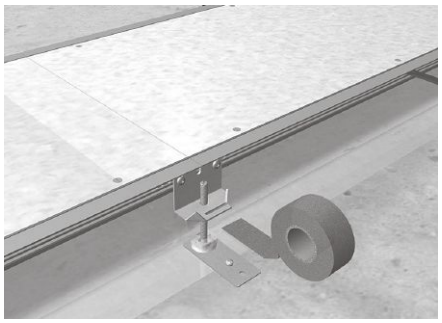
Plug the retaining tabs to the slab.

Support the trunking bottom



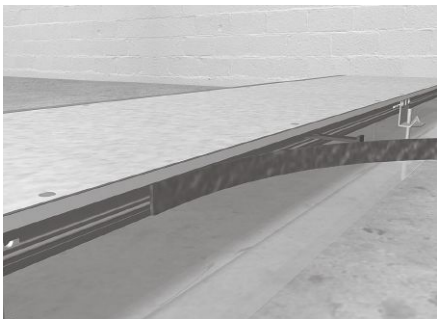
If using trunking bottoms, use underlays. Ensure that the screed installer is explicitly informed of this measure. If cross members with levelling support are used, the trunking bottom must be perforated on site so that the set screw firmly sits on the slab!

Seal the joints



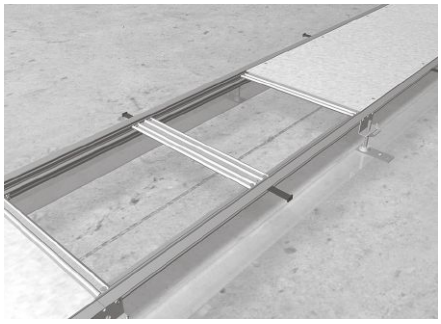
Carefully seal the joints of the trunking system against screed ingress.

Screed expansion



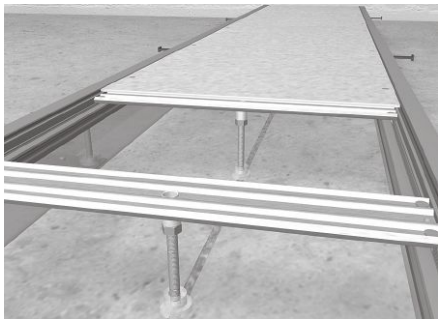
Screed may expand while hardening, causing it to push against the trunking. The pressure is determined by the size of the screed slab and its composition. Sponge rubber strips may be attached to the profile to reduce pressure. Please consult the screed layer.

Position the cross members



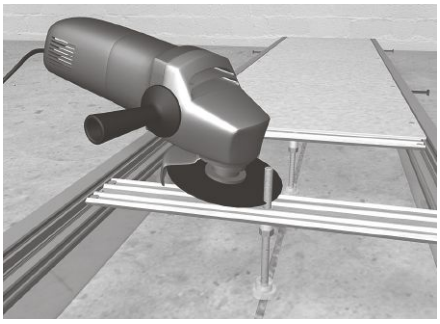
Each cover butt joint must be supported by a cross member. From trunking nominal widths greater than 300 mm, covers must be additionally supported between the joints. The cross members must be equally spaced.

Cross members with threaded sleeve



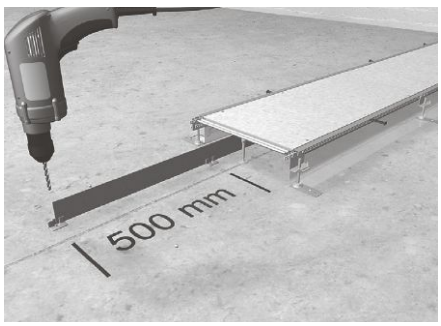
Install the set screw in the threaded sleeve. Install lock nut BKZKM80 and insulating mount BKZNSD0 to the set screw. Slightly tension the cross member against the slab using the set screw. Secure the set screw using lock nut BKZKM80 below the levelling sleeve.

Shorten set screws



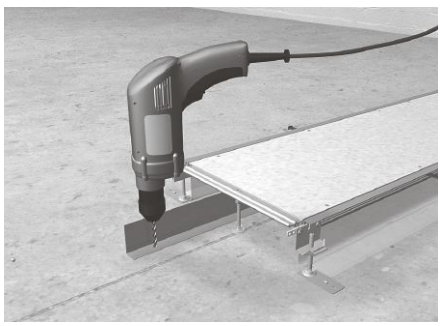
If required, trim the set screws so that they are flush with the top edge of the cross member.

Trunking partition wall BKTWK



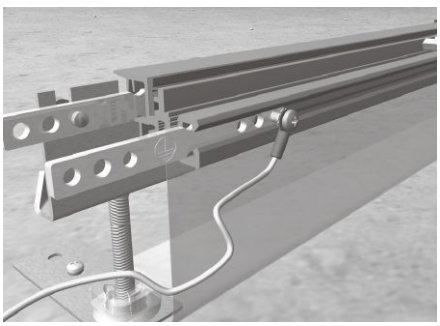
Plug the feet of trunking partition wall BKTWK at a spacing of 500 mm to the slab. Push the partition wall into the feet.

Trunking partition wall BKTWS



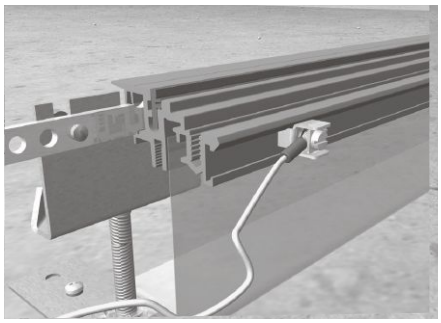
Plug partition wall BKTWS directly to the slab. Bores in the separating walls must be created on site. Connect the separating wall to ground using the tap-on grounding clamps provided.

Earthing measure for trunking BKF



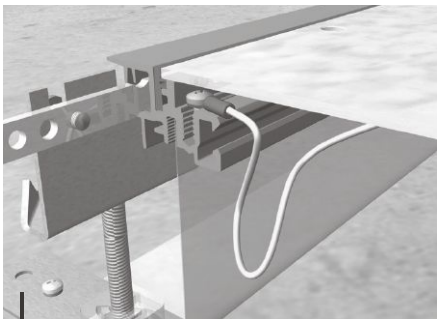
During installation of trunking, push connector from the side into inner profile slot. Remove blank cover from trunking and tighten the screw at the connector. Connect the earth conductor cable to the earthing measure using an end sleeve (available as option).

Earthing measures for trunking BKFD



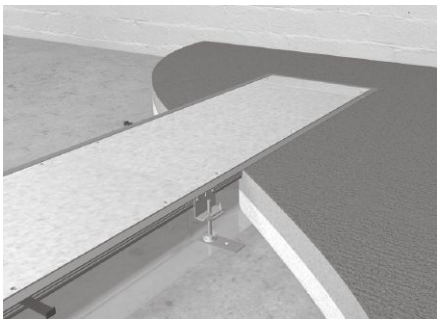
During installation of trunkings, push the connector clamps (available as option) from the side into the inner profile slot. Remove blank cover from trunking and tighten bolt M3 at the connector clamp. Connect the earth conductor cable connector clamp to the earthing measure.

Blank cover with cover snap fastener



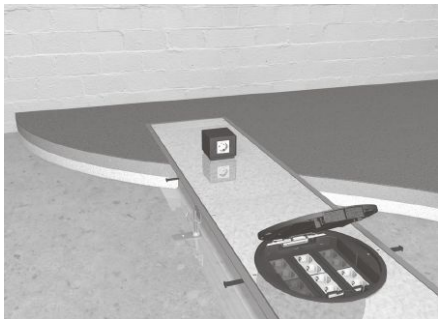
The earth conductor cable (available as option) is welded to the blank cover with cover snap at the factory. After installation, remove the blank covers from the trunking and secure the earth conductor cable of the blank cover to the profile using the eyelet.

Lay the screed



Install the screed up to the top edge of the trunking profiles. Blank covers can be fitted with flooring using adhesive.

Install installation units



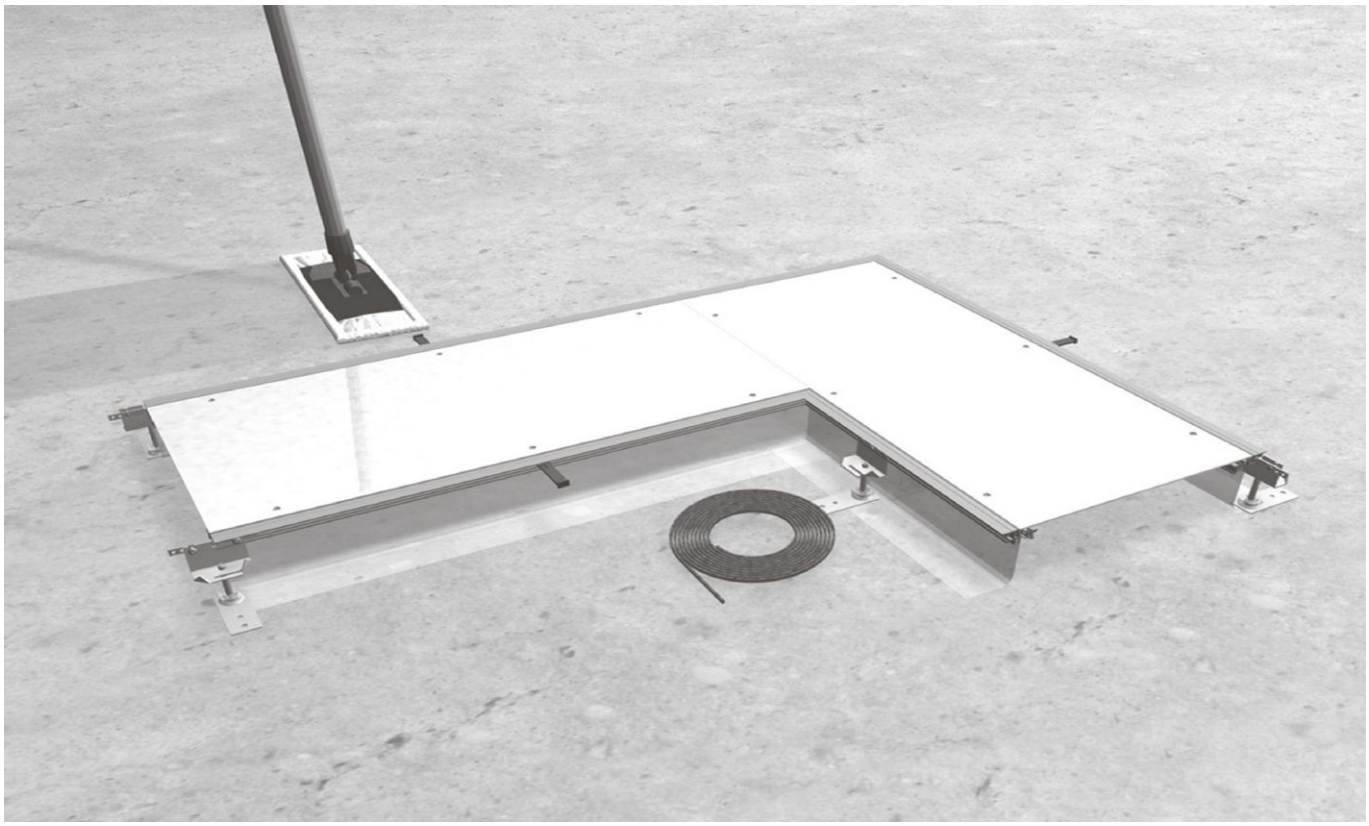
Installation units such as Service units or floor-mounting pedestal boxes can be installed in the trunking. This requires replacing the blank cover by an installation cover with a corresponding opening.

General instructions:

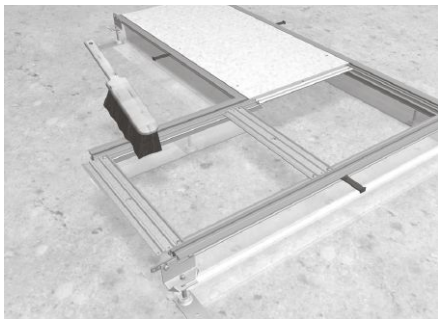
Seal
The seal is made of compressed cellular rubber with wax-plastic water-proofing.

Properties
After unrolling, the material takes some time to expand, thereby pressing itself between trunking cover and lateral profile.

Storage
The sealing tape may only be processed at room temperatures between 15 °C and 25 °C.
Before installation, the sealing tape must have been stored at room temperature for at least 24 hours.

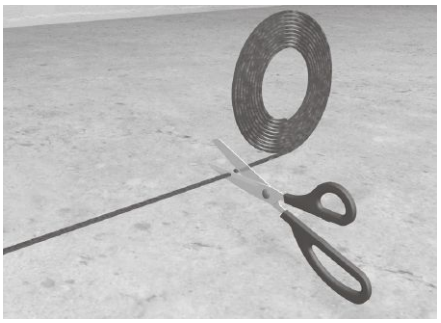


Preparation



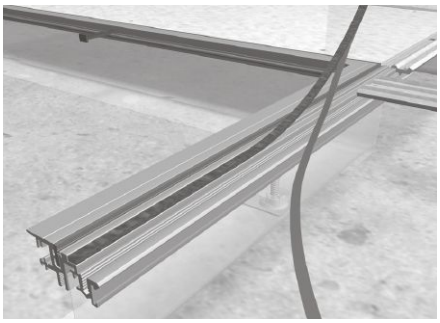
Before installing the sealing tape, open the trunking system and clean it on the inside and outside. The slot holding the sealing tape must be free of dust and grease. Do not open the trunking system before the screed has fully hardened.

Cut off sealing tape



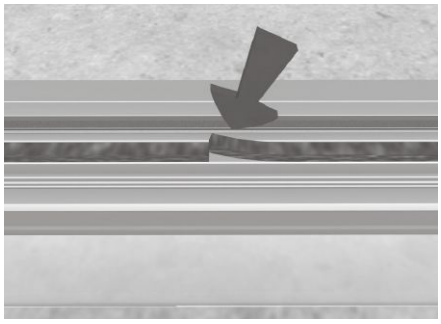
Cut off the required length.

Attach adhesive sealing tape



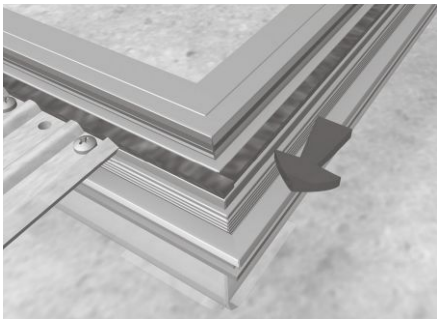
Peel off the backing paper over a length of approx. 20 - 30 cm. Place the sealing tape into the slot in the lateral profile and press it in lightly.

Sealing tape joints



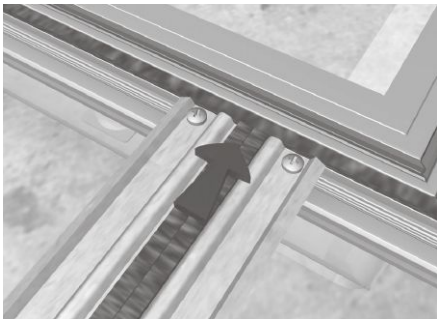
At the joints, the sealing tape ends must join exactly and with slight pressure. Do not cut them at an angle and do not let them overlap.

Sealing corners



Never bend the sealing tape around a corner without cutting it. As with the joints, join the ends with slight pressure.

Cross members



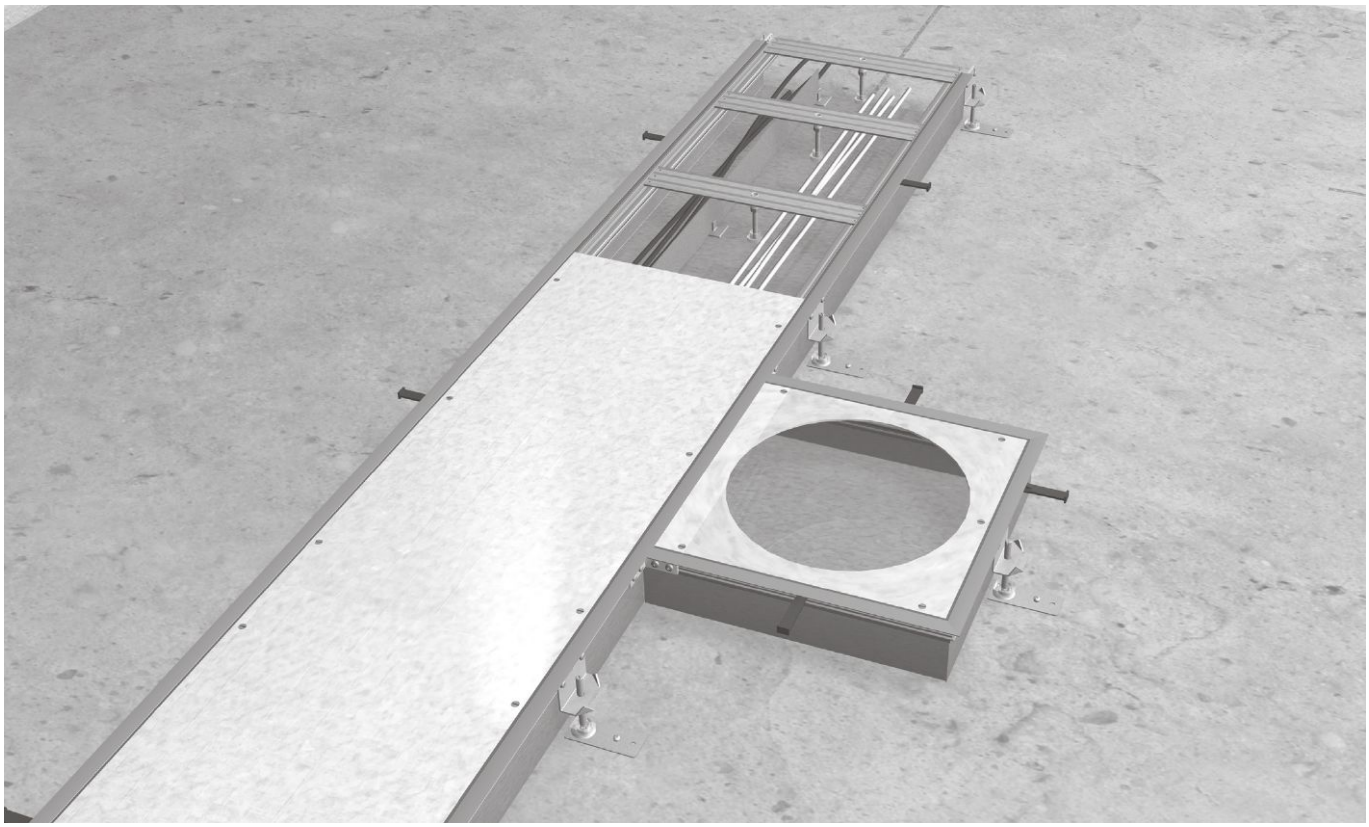
Install two sealing strips in the centre of the cross member. Install their ends as with the 90° corner. Install sealing tape only at the cross members supporting cover joints.

General instructions:

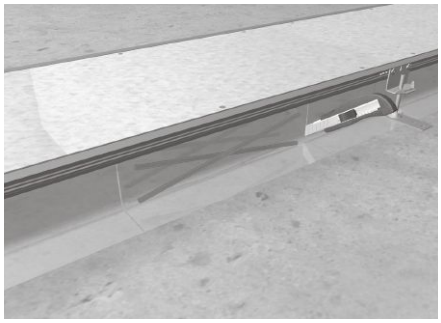
Lateral attachment
Connection socket BKSA can be installed to the side of trunking BKF / BKFD to allow installation of flush-floor or pedestal installation units via an installation opening.

Larger cross-section
Sockets eliminate the reduction of the cross-section in the trunking immanent with direct installation of installation units in the trunking.

Accessories
Installation requires one levelling clamp of the existing trunking and one levelling set BKSAN.

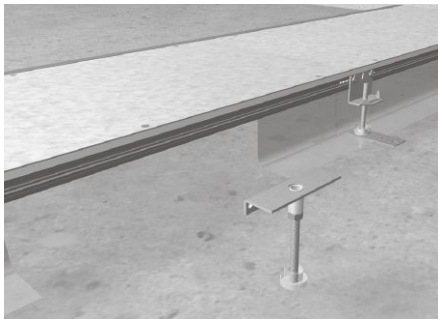


Cut out the screed casing



Cut out the screed casing on the side so that the connection socket can be attached.

Prepare the levelling set

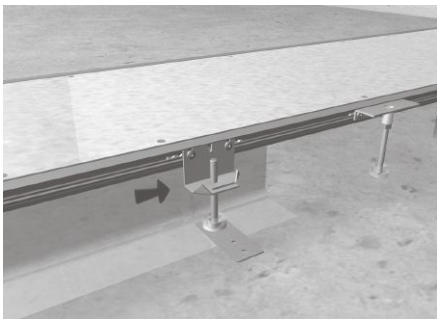


Install nut BKZKM80 and insulating mount BKZNSD0 to the set screw. Install set screw into support bracket.

Attach the levelling set

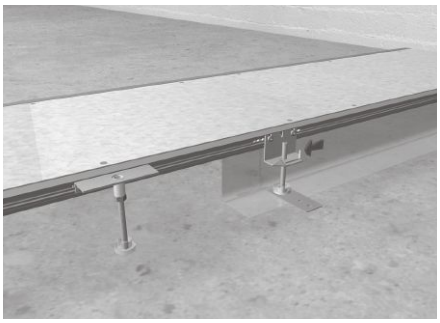
Secure the support bracket to the trunking lateral profile using a trunking connector. Tighten the set screws against the slab. Secure the set screw by tightening lock nut BKZKM80 from below against the threaded sleeve. If required, cut off the set screw so that it is flush with the top edge of the support bracket.

Install the levelling set



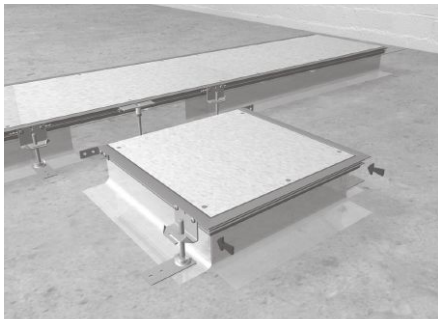
Insert the trunking connector into the outer slot of the lateral profile. Install set screw BKZNS into the levelling clamp. Install the retaining tab with insulating mount BKZHP00.

Slide the levelling set into position



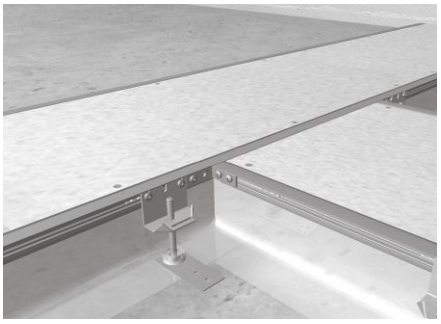
Disconnect the existing levelling clamp at the trunking from the connector. Slide both parts to the installation position of the socket to be installed.

Install the levelling set



Engage the trunking connector in the outer slot of the connecting socket. Screw the levelling clamp to the slot of the connecting socket using a trunking connector. Install the set screw BKZNS into the levelling clamp. Install the retaining tab with insulating mount BKZHP00.

Attach the connecting socket



Connect the connecting socket to the trunking lateral profile. Install the angled connection, tighten the screws. The screed casing must be on the outside.

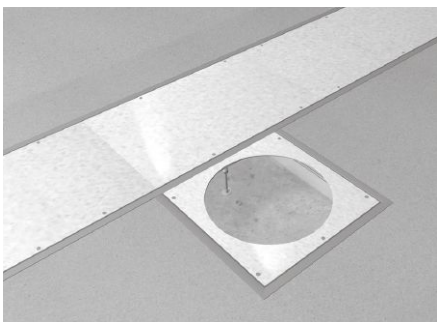
Plug the retaining tabs

Plug the retaining tabs to the slab.

Engage the screed anchor

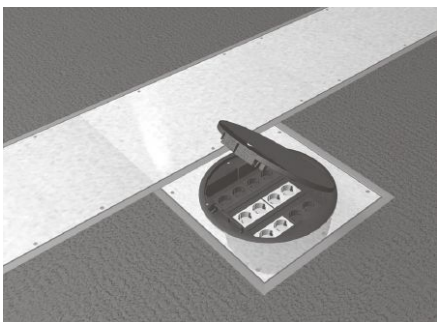
Engage the screed anchor into the profile of the connecting socket.

Lay the screed



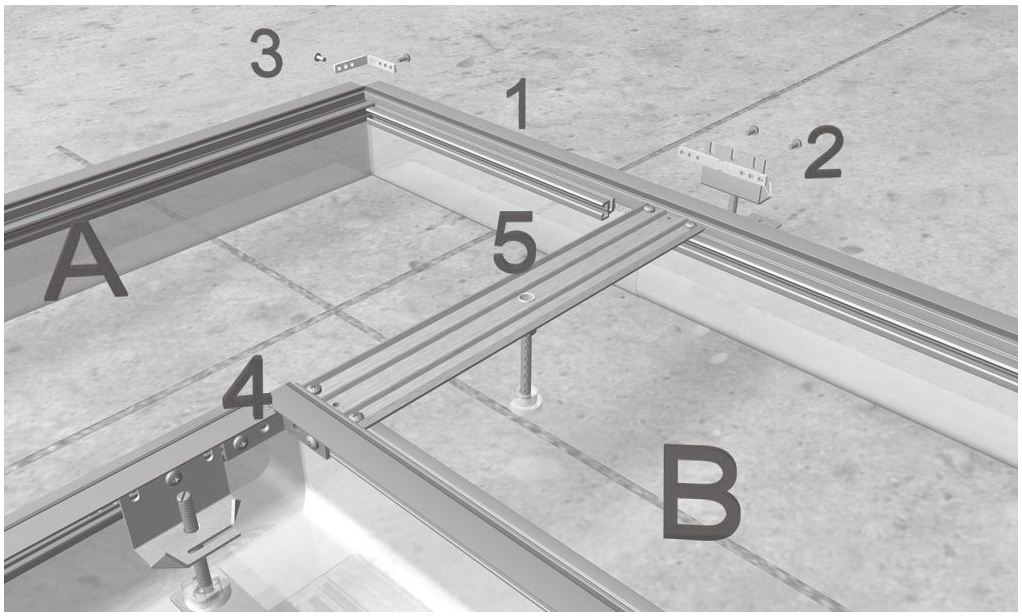
Once the screed is installed, the adhesive protective cover can be removed.

Insert the service unit



Insert the service unit into the opening and secure it. Due to the connection socket, the entire cross-section of the main trunking is maintained.

90° angle branch made by customer



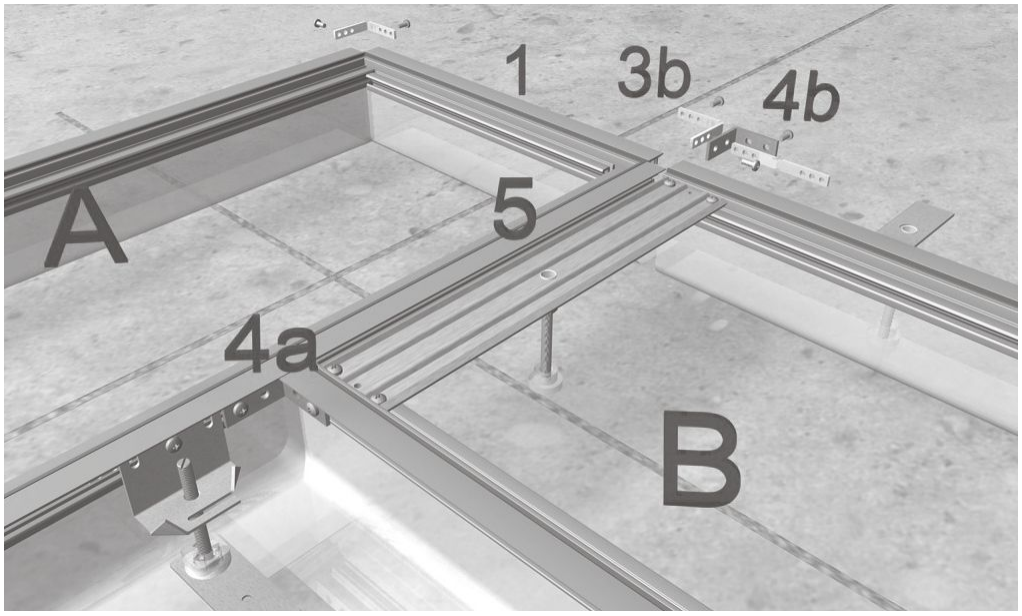
Please order the following additional parts:
1 x connection set BKZVS90
1 x end piece BKFV

Shorten trunking section A on one side by the width dimension (trunking - 20 mm).
Attach end piece (1) with levelling clamp and trunking connector (2) to trunking section B.
Attach trunking section A and end piece at the outer corner of the angled connectors (3).

Join the trunking sections at the inner corner using the angled connector (4) and secure them.
Attach the cross member (5) to the trunking lateral profile of trunking section B.

The cross member must support the covers of trunking sections A and B. Cross members installed in trunking sections wider than 350 mm must be fitted with the levelling support.
Locate the levelling brackets at an even spacing of max. 800 mm and secure them to the trunking using connectors.

90° angle branch made by the customer for installation heights greater than 40 mm



Please order the following additional parts:
1 x connection set BKZVS90
1 x end piece BKFV

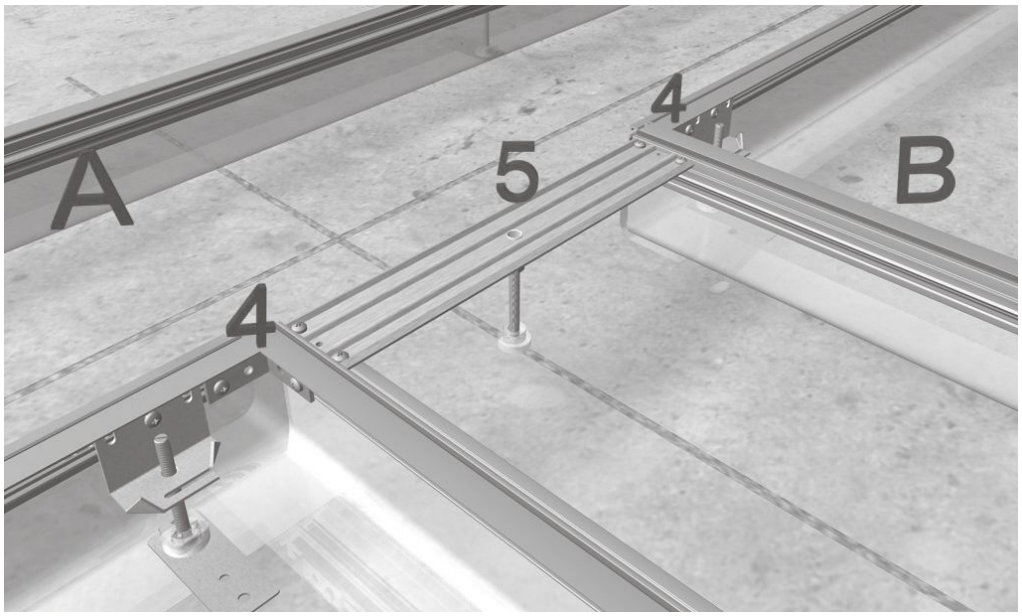
Cut out the screed casing at the branch-out.
Attach the angled piece (4b) to the angle connector (3b) and attach the end piece (1) to trunking end A using the M5 bolt. Connect trunking section A and B using the angled connector (4a, 4b).

Attach the cross member (5) to the trunking lateral profile of trunking section (B). The cross member must support the cover joint of trunking section B. Cross members installed in trunking sections wider than 350 mm must be fitted with the levelling support.

Locate the levelling brackets at an even spacing of max. 800 mm and secure them to the trunking using connecting pieces.

As an alternative, the shaped parts can be ordered as pre-assembled units!

T-branch made by the customer



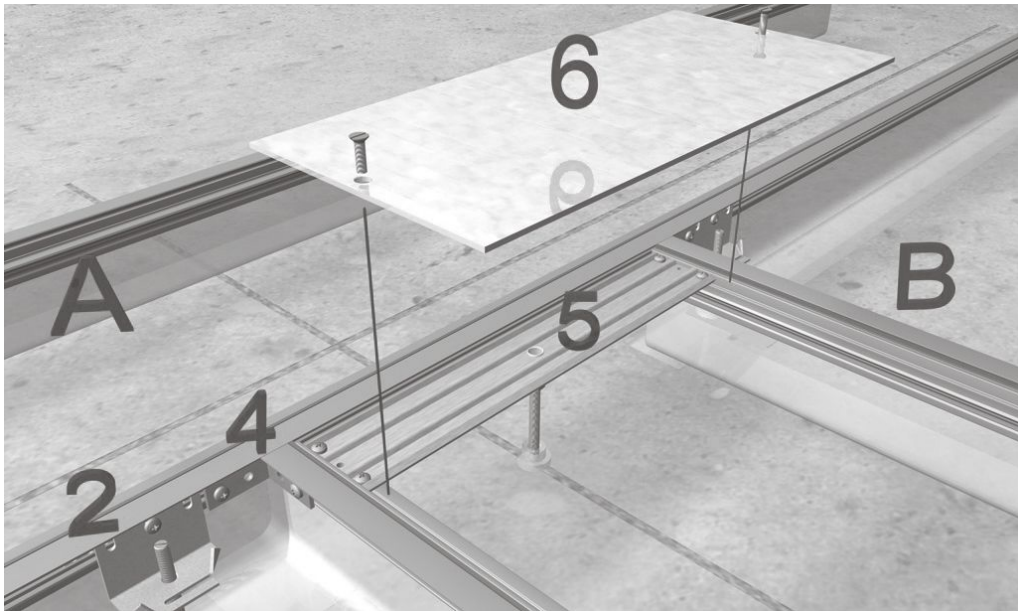
Please order the following additional parts:
1 x connection set BKZVS90

Create a cut-out on one side of the trunking section A that fits the width of the branched-out trunking section B.
Insert the branched-out trunking section B into the cut-out.
Join both trunking sections using an angled connector (4).

Attach the cross member (5) to the trunking lateral profile of trunking section B. The cross member must support the covers of trunking sections A and B. Cross members installed in trunking sections wider than 350 mm must be fitted with the levelling support.

Locate the levelling brackets at an even spacing of max. 800 mm and secure them to the trunking using connectors.

T-branch made by the customer for installation heights greater than 40 mm



Please order the following additional parts:
1 x connection set BKZVS90

Locate branched-out trunking section B at section A and connect them using an angled connector (4).
Attach the cross member (5) to the trunking lateral profile of trunking section B. The cross member must support the cover joint of trunking section B. Cross members installed in trunking sections wider than 350 mm must be fitted with the levelling support.
Locate the levelling brackets at an even spacing of max. 800 mm and secure them to the trunking using connecting pieces. Recommendation: Firmly bolt a short piece of blank cover (6) to trunking section B. If no blank cover (6) is used, then the flooring may not adhere reliably to the lateral profile of trunking section A in the area of the branch-out.

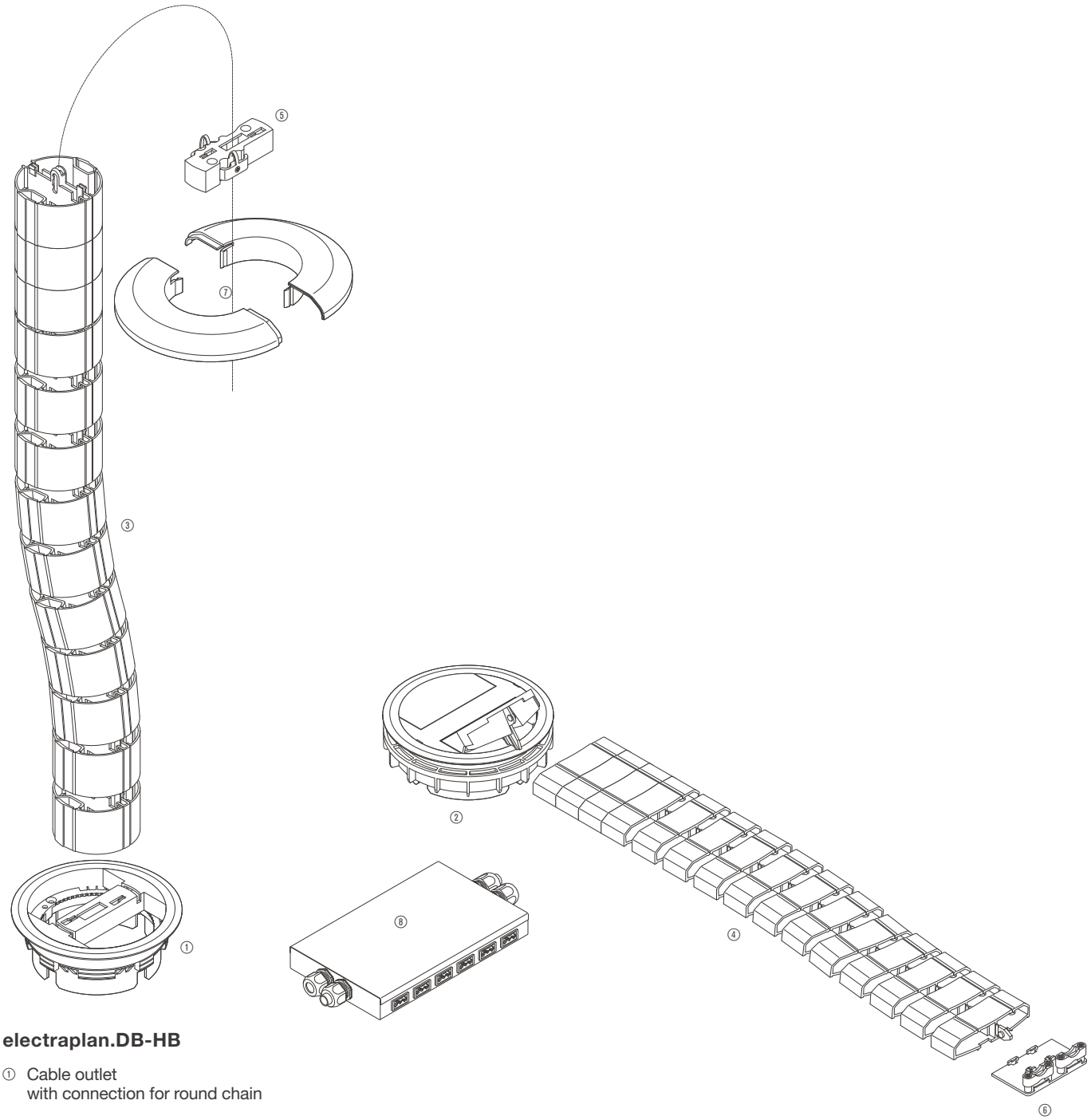
As an alternative, the shaped parts can be ordered as pre-assembled units!

Double floors and cavity floors

electraplan.DB-HB

Two systems in one
Whether for stacked double floors or cavity floors with a closed screed covering – in both cases, the flexible electraplan.DB-HB system is the perfect solution: With pre-assembled lines and device casings with sockets, the final installation is simply a case of plugging in the electrical distribution. And with this practical plug-and-play technology, changes can be implemented quickly and easily.

electraplan.DB-HB



electraplan.DB-HB

① Cable outlet
with connection for round chain

② Cable outlet
with connection for flat chain

② Round chain

④ Flat chain

⑤ Connection adapter
for round chain

⑥ Connection adapter
for flat chain

⑦ Rosette for round chain

⑧ Connection point

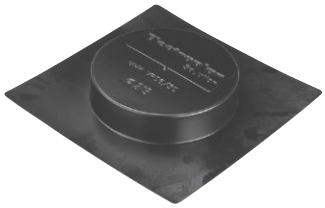
- Standard height: 50 mm
- Casing elements also available on request with a height of 110 mm

Material
Plastic

Shapes
R06: round 215 mm
R10: round 275 mm
R12: round 306 mm
Q06: square 200 x 200 mm
Q12: square 244 x 244 mm
E09: rectangular 200 x 253 mm

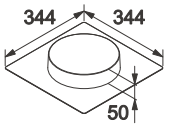
Note
- Position the casing elements on the floor before casting the screed
- Once the screed has set and reached the required hardness, cut off the protruding part from the casing element

▶ from page 3.11



SEVR0650

Casing elements for supply units and height-adjustable cassettes



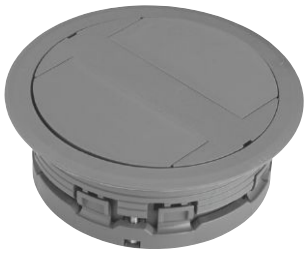
Designation	PU	Order no.
Casing element f VR06 round 215mm H50mm	15	**SEVR0650**
Casing element f VR10 round 275mm H50mm	10	**SEVR1050**
Casing element f VR12 round 306mm H50mm	1	**SEVR1250**
Casing element f VR06 square 200mm H50mm	25	**SEVQ0650**
Casing element f VR12 square 244mm H50mm	1	**SEVQ1250**
Casing element f VE09 200x253mm H50mm	1	**SEVE0950**

- For installation in double or cavity floors
- Clamping range greater than 20 mm
- Outer diameter: 132 mm
- Installation opening: 112 mm

Material
Polyamide (halogen-free)

Available colours
RAL 7011, iron grey
RAL 9005, deep black

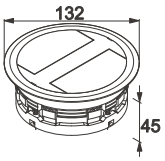
▶ from page 3.11



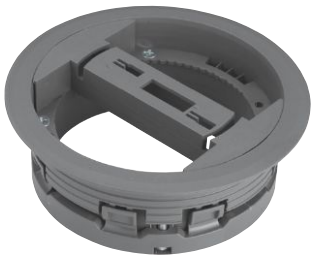
LAFKG207011

Cable outlet for dry-cleaned floors

Properties:
- With connection for flat chain



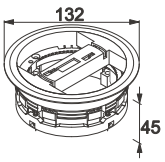
Designation	PU	Order no.
Cable outlet f fl chain clamp>20mm eg	18	**LAFKG207011**
Cable outlet f fl chain clamp>20mm ts	18	**LAFKG209005**



LARKG207011

Cable outlet for dry-cleaned floors

Properties:
- With connection for round chain

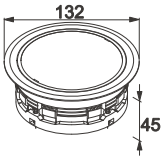


Designation	PU	Order no.
Cable outlet f rd chain clamp>20mm eg	18	**LARKG207011**
Cable outlet f rd chain clamp>20mm ts	18	**LARKG209005**

LATUG207011

Cable outlet for wet-cleaned floors

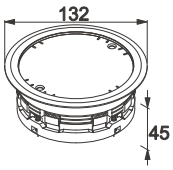
Properties:
- With integrated splashwater protection



Designation	PU	Order no.
Cable outlet, tube, wet-cleaned fl. clamp>20mm eg	18	**LATUG207011**
Cable outlet, tube, wet-cleaned fl. clamp>20mm ts	18	**LATUG209005**

LABLG207011

Blank cover with steel plate inlay



Designation	PU	Order no.
Cable outlet bl. cov. clamp>20mm eg	18	**LABLG207011**
Cable outlet bl. cov. clamp>20mm ts	18	**LABLG209005**

- For installation in double or cavity floors
- Clamping range less than 20 mm
- Outer diameter: 132 mm
- Installation opening: 112 mm

Material
Polyamide (halogen-free)

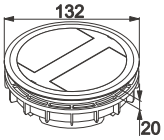
Available colours
RAL 7011, iron grey
RAL 9005, deep black

▶ from page 3.11

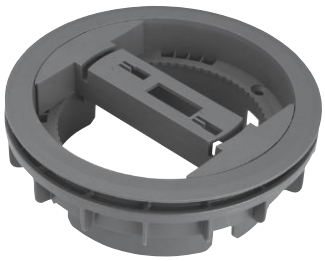
LAFKK207011

Cable outlet for dry-cleaned floors

Properties:
- With connection for flat chain



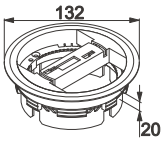
Designation	PU	Order no.
Cable outlet f fl chain clamp<20mm eg	18	**LAFKK207011**
Cable outlet f fl chain clamp<20mm ts	18	**LAFKK209005**



LARKK207011

Cable outlet for dry-cleaned floors

Properties:
- With connection for round chain

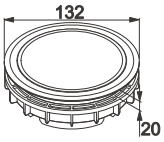


Designation	PU	Order no.
Cable outlet f rd chain clamp<20mm eg	18	**LARKK207011**
Cable outlet f rd chain clamp<20mm ts	18	**LARKK209005**

LATUK207011

Cable outlet for wet-cleaned floors

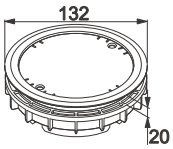
Properties:
- With integrated splashwater protection



Designation	PU	Order no.
Cable outlet, tube, wet-cleaned fl. clamp<20mm eg	18	**LATUK207011**
Cable outlet, tube, wet-cleaned fl. clamp<20mm ts	18	**LATUK209005**

LABLK207011

Blank cover with steel plate inlay



Designation	PU	Order no.
Cable outlet bl. cov. clamp<20mm eg	18	**LABLK207011**
Cable outlet bl. cov. clamp<20mm ts	18	**LABLK209005**

- Flat cable chain for line trunking on the floor
- Stepproof
- Two locking positions, thus also enabling rigid connection
- Extensive accessories

Wiring capacity
8 x 3 x 1.5 mm²

Material
Polyamide (halogen-free)

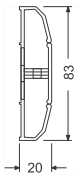
Available colours
RAL 7011, iron grey
RAL 9005, deep black

▶ from page 3.11

FK17011

Flat chain

Properties:
- Length (fully extended): 1 m
- 2 chambers for housing data and energy lines
- Adapted to room distributor system



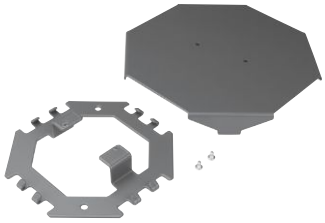
Designation	PU	Order no.
Flat chain made of polyamide 1m eg	15	**FK17011**
Flat chain made of polyamide 1m ts	15	**FK19005**

FKA7011

Flat-chain adapter

Properties:
- For connection of the flat chain to the cable outlet of the service unit
- Material: Polyamide

Designation	PU	Order no.
Flat-chain adapter f. service unit eg	1	**FKA7011**
Flat chain adapter f. service unit ts	1	**FKA9005**



FKB7011

Floor distributor

Properties:
- For crossing of wiring on the floor
- Comprises an upper and a lower part
- Flat chain is simply hooked in
- Material: Sheet metal

Designation	PU	Order no.
Flat-chain floor distributor complete St eg	1	**FKB7011**
Flat-chain floor distributor complete St ts	8	**FKB9005**

FKS7011

Step protection

Properties:
- For additional protection under increased loads
- Length: 1 m, custom lengths available on request
- Material: Sheet metal

Designation	PU	Order no.
Flat chain step protection 1m steel eg	1	**FKS7011**
Flat chain step protection 1m steel ts	1	**FKS9005**

FKH7011

Bottom support

Properties:
- For fixing the flat chain on the floor
- Length: 0.5 m
- Material: Sheet metal

Designation	PU	Order no.
Flat chain bottom support 0.5m steel eg	8	**FKH7011**
Flat chain bottom support 0.5m steel ts	8	**FKH9005**

FKWB000

Support with strain relief

Properties:
- Support for screwing onto the wall or floor
- Strain relief for 2 lines
- Material: Polyamide

Designation	PU	Order no.
Flat-chain support with strain relief	1	**FKWB000**

- Round line routing chain for connection of the floor outlet to the desk connection
- Safe and reliable protection for the lines
- Easy to open and close again with folding mechanism
- Flexible in all directions but can also be locked to form a rigid connection
- Extensive accessories

Wiring capacity
16 x 3 x 1.5 mm²

Material
Polypropylene

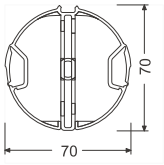
Available colours
RAL 7035, light grey

▶ from page 3.11

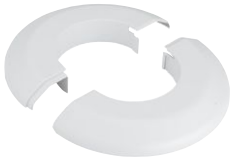
RK17035

Round chain

Properties:
- Length (fully extended): 1 m (18 chain links)
- 2 compartments for data and energy lines
- Adapted to room distributor system



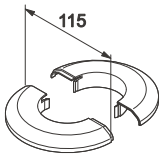
Designation	PU	Order no.
Round chain made of polypropylene 1m lg	8	**RK17035**



RKR7035

Rosette

Properties:
- For covering the cable outlet after connection of the round chain
- Material: Polypropylene



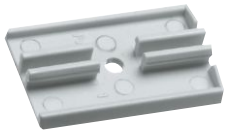
Designation	PU	Order no.
Round chain rosette PP cover for LARK lg	10	**RKR7035**

RKA7035

Connection adapter

Properties:
- Connection adapter with strain relief for floor or ceiling connection
- Material: Polypropylene

Designation	PU	Order no.
Round-chain connection adapter PP lg	12	**RKA7035**



RKWH000

Wall holder

Properties:
- For safe and reliable attachment of the round chain to the wall
- Material: Polypropylene

Designation	PU	Order no.
Round-chain wall holder PP	1	**RKWH000**

- Group connection point for underfloor high-voltage installations
- For the connection of floor-level installation units in cavity floors or double floors via plug connections
(WG: Wieland GST 18i/3 or WA: Wago Winsta)
- For supply lines with diameters ranging from 9 - 17 mm via M25 screw gland with strain relief
- Feed: 400 V AC3 / 16 A to spring-loaded double terminals 5 x 4 mm²

Material
Housing made of 1 mm steel plate Galvanised in accordance with DIN EN 10327
All plastic parts used are halogen-free

Available colours Plug-type connectors
white, similar to RAL 9010
black, similar to RAL 9005

Dimensions
L x W x H: 325 x 195 x 45 mm

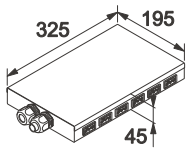
▶ from page 3.11

SPWG069010

Group connection point with 6 plug connectors

Properties:
- For max. 2 supply lines with diameters ranging from 9 to 17 mm via M25 screw gland with strain relief
- 6 AC outputs for 230 V supply lines 16 A
- Internal wiring 2.5 mm² for each phase 2 x socket

WG: Wieland GST 18i/3
WA: Wago Winsta



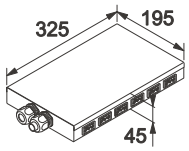
Designation	PU	Order no.
Group connection point for energy WG 6 sockets white	1	**SPWG069010**
Group connection point for energy WG 6 sockets black	1	**SPWG069005**
Group connection point for energy WA 6 sockets white	1	**SPWA069010**
Group connection point for energy WA 6 sockets black	1	**SPWA069005**

SPWG129010

Group connection point with 12 plug connectors

Properties:
- For max. 2 supply lines with diameters ranging from 9 to 17 mm via M25 screw gland with strain relief
- 12 AC outputs for 230 V supply lines 16 A
- Internal wiring 2.5 mm² for each phase 4 x socket

WG: Wieland GST 18i/3
WA: Wago Winsta



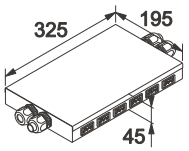
Designation	PU	Order no.
Group connection point for energy WG 12 sockets white	1	**SPWG129010**
Group connection point for energy WG 12 sockets black	1	**SPWG129005**
Group connection point for energy WA 6 sockets white	1	**SPWA069010**
Group connection point for energy WA 12 sockets black	1	**SPWA129005**

SPWG669010

Group connection point with 2 x 6 plug connectors

Properties:
- For max. 4 supply lines with diameters ranging from 9 to 17 mm via M25 screw gland with strain relief
- 12 AC outputs for 230 V supply lines 16 A
- Internal wiring 2.5 mm² for each phase 2 x socket

WG: Wieland GST 18i/3
WA: Wago Winsta



Designation	PU	Order no.
Group connection point for energy WG 2 x 6 sockets	1	**SPWG669010**
Group connection point for energy WA 2 x 6 sockets	1	**SPWA669010**

- Connecting lines for connection of the pre-assembled device casings to group connection points
- Optionally also suitable for use as an extension
- 3 x 1.5 mm² or 3 x 2.5 mm²
- 1 x plug and 1 x socket:

  WG: Wieland GST 18i/3
  WA: Wago Winsta

Available colours
RAL 9005, deep black
RAL 9010, pure white

Available lengths
1, 3, 5, 8, 10 m

Outer material
PVC

▶ from page 3.11

VLWG013159005

Connecting cable black Wieland GST

Designation	PU	Order no.
Connecting cable WG 1m 3x1.5² black	1	**VLWG013159005**
Connecting cable WG 3m 3x1.5² black	1	**VLWG033159005**
Connecting cable WG 5m 3x1.5² black	1	**VLWG053159005**
Connecting cable WG 8m 3x1.5² black	1	**VLWG083159005**
Connecting cable WG 10m 3x1.5² black	1	**VLWG103159005**
Connecting cable WG 1m 3x2.5² black	1	**VLWG013259005**
Connecting cable WG 3m 3x2.5² black	1	**VLWG033259005**
Connecting cable WG 5m 3x2.5² black	1	**VLWG053259005**
Connecting cable WG 8m 3x2.5² black	1	**VLWG083259005**
Connecting cable WG 10m 3x2.5² black	1	**VLWG103259005**

VLWA053159005

Connecting cable black Wago Winsta

Designation	PU	Order no.
Connecting cable WA 1m 3x1.5² black	1	**VLWA013159005**
Connecting cable WA 3m 3x1.5² black	1	**VLWA033159005**
Connecting cable WA 5m 3x1.5² black	1	**VLWA053159005**
Connecting cable WA 8m 3x1.5² black	1	**VLWA083159005**
Connecting cable WA 10m 3x1.5² black	1	**VLWA103159005**
Connecting cable WA 1m 3x2.5² black	1	**VLWA013259005**
Connecting cable WA 3m 3x2.5² black	1	**VLWA033259005**
Connecting cable WA 5m 3x2.5² black	1	**VLWA053259005**
Connecting cable WA 8m 3x2.5² black	1	**VLWA083259005**
Connecting cable WA 10m 3x2.5² black	1	**VLWA103259005**

VLWG013159010

Connecting cable white Wieland GST

Designation	PU	Order no.
Connecting cable WG 1m 3x1.5² white	1	**VLWG013159010**
Connecting cable WG 3m 3x1.5² white	1	**VLWG033159010**
Connecting cable WG 5m 3x1.5² white	1	**VLWG053159010**
Connecting cable WG 8m 3x1.5² white	1	**VLWG083159010**
Connecting cable WG 10m 3x1.5² white	1	**VLWG103159010**
Connecting cable WG 1m 3x1.5² white	1	**VLWG013259010**
Connecting cable WG 3m 3x1.5² white	1	**VLWG033259010**
Connecting cable WG 5m 3x1.5² white	1	**VLWG053259010**
Connecting cable WG 8m 3x1.5² white	1	**VLWG083259010**
Connecting cable WG 10m 3x1.5² white	1	**VLWG103259010**

VLWA053159010

Connecting cable white Wago Winsta

Designation	PU	Order no.
Connecting cable WA 1m 3x1.5² white	1	**VLWA013159010**
Connecting cable WA 3m 3x1.5² white	1	**VLWA033159010**
Connecting cable WA 5m 3x1.5² white	1	**VLWA053159010**
Connecting cable WA 8m 3x1.5² white	1	**VLWA083159010**
Connecting cable WA 10m 3x1.5² white	1	**VLWA103159010**
Connecting cable WA 1m 3x2.5² white	1	**VLWA013259010**
Connecting cable WA 3m 3x2.5² white	1	**VLWA033259010**
Connecting cable WA 5m 3x2.5² white	1	**VLWA053259010**
Connecting cable WA 8m 3x2.5² white	1	**VLWA083259010**
Connecting cable WA 10m 3x2.5² white	1	**VLWA103259010**

electraplan.DB-HB
Device casings (equipped)

- Device casing fully equipped with Schuko sockets
- Length of connecting cable: 50 cm
- 3 x 1.5 mm² or 3 x 2.5 mm²
- Connector:
  WG: Wieland GST 18i/3
  WA: Wago Winsta

Available colours
RAL 9010, pure white
RAL 2004, orange

Note
Further device casing combinations are available on request

▶ from page 3.11

GTV4RW0ROWG315

Device casings (equipped)

Designation	PU	Order no.
Device casing 4xRW 0xRO WG H05VV-F3G1.5	1	**GTV4RW0ROWG315**
Device casing 4xRW 0xRO WG H05VV-F3G2.5	1	**GTV4RW0ROWG325**
Device casing 4xRW 0xRO WA H05VV-F3G1.5	1	**GTV4RW0ROWA315**
Device casing 4xRW 0xRO WA H05VV-F3G2.5	1	**GTV4RW0ROWA325**
Device casing 0xRW 4xRO WG H05VV-F3G1.5	1	**GTV0RW4ROWG315**
Device casing 0xRW 4xRO WG H05VV-F3G2.5	1	**GTV0RW4ROWG325**
Device casing 0xRW 4xRO WA H05VV-F3G1.5	1	**GTV0RW4ROWA315**
Device casing 0xRW 4xRO WA H05VV-F3G2.5	1	**GTV0RW4ROWA325**
Device casing 2xRW 2xRO WG H25VV-F3G1.5	1	**GTV2RW2ROWG315**
Device casing 2xRW 2xRO WG H25VV-F3G2.5	1	**GTV2RW2ROWG325**
Device casing 2xRW 2xRO WA H25VV-F3G1.5	1	**GTV2RW2ROWA315**
Device casing 2xRW 2xRO WA H25VV-F3G2.5	1	**GTV2RW2ROWA325**

Double floor – Cavity floor – Group connection points

Identifier	Type	Type	Altitude
SE = casing element	X	Y	Z
	V = service unit	R06 = round 215 mm R10 = round 275 mm R12 = round 306 mm Q06 = square 200 x 200 mm Q12 = square 244 x 244 mm E09 = square 200 x 253 mm	50 = height 50 mm

Double floor – Cavity floor – Cable outlets

Identifier	Type	Type	Colour
LA = cable outlet	X	Y	Z
	FK = with connection for flat chain RK = with connection for round chain TU = tube BL = blank cover	G20 = clamping range greater than 20 mm K20 = clamping range less than 20 mm	7011 = RAL 7011, iron grey 9005 = RAL 9005, deep black

Double floor – Cavity floor – Chains and accessories

Identifier	Accessories	Colour
FK = flat chain	Y	Z
	1 = length 1 m A = adapter B = floor distributor S = protection (step protection) H = holder (floor holder) WB000 = wall and floor holder	7011 = RAL 7011, iron grey 9005 = RAL 9005, deep black

Identifier	Accessories	Colour
RK = round chain	Y	Z
	1 = length 1 m R = rosette A = connection adapter WH000 = wall holder	7035 = RAL 7035, light grey

Double floor – Cavity floor – Group connection points

Identifier	Socket manufacturer	Number of sockets	Socket colour
SP = group connection point	X	Y	Z
	WG = Wieland GST 18i/3 WA = Wago Winsta	06 = 6 sockets 12 = 12 sockets 66 = 2 x 6 sockets	9005 = RAL 9005, deep black 9010 = RAL 9010, pure white

Double floor – Cavity floor – Connecting cables

Identifier	Socket and plug manufacturer	Cable length	Cable cross-section	Cable colour
VL = connecting cable	W	X	Y	Z
	WG = Wieland GST 18i/3 WA = Wago Winsta	01 = 1 m 03 = 3 m 05 = 5 m 08 = 8 m 10 = 10 m	315 = 3 x 1.5 mm² 325 = 3 x 2.5 mm²	9005 = RAL 9005, deep black 9010 = RAL 9010, pure white

Device carriers for installation devices - pre-assembled

Identifier	Accessories	Number of sockets in pure white	Number of sockets pure orange	Socket and plug manufacturer	Cable cross-section
GT	V	W	X	Y	Z
Device carriers	V = service unit	4RW = four Schuko sockets, pure white 2RW = two Schuko sockets, pure white 0RW = no Schuko socket, pure white	4RO = four Schuko sockets, pure orange 2RO = two Schuko sockets, pure orange 0RO = no Schuko socket, pure orange	WG = Wieland GST 18i/3 WA = Wago Winsta	315 = 3 x 1.5 mm² 325 = 3 x 2.5 mm²

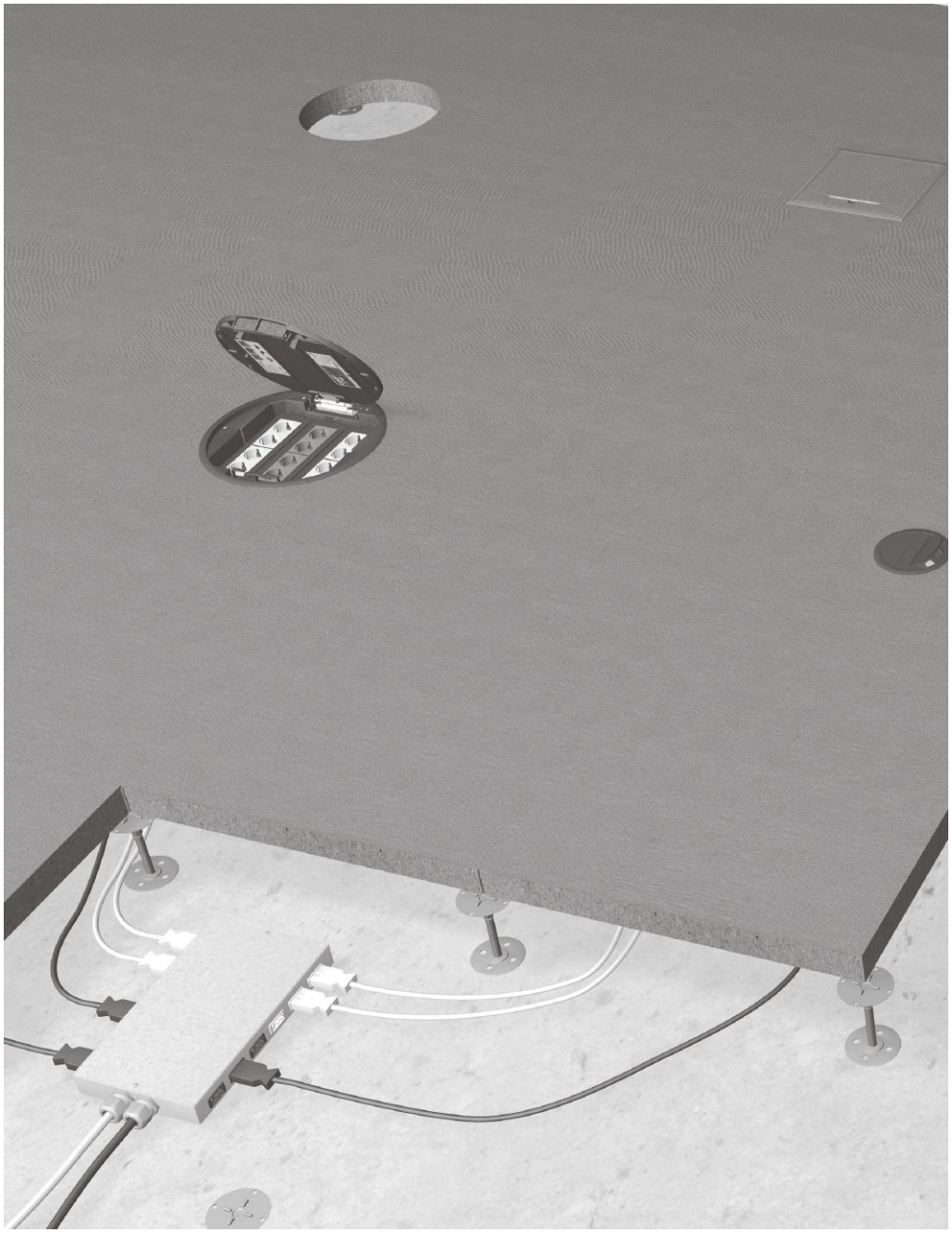
Double floor - general description - function and application

Fast installation
With pre-assembled cables and device casings with sockets, the final office installation is simply a case of plugging in the electrical distribution.

High flexibility
Thanks to the plug-and-play technology, all changes can be implemented quickly and easily.

How it works
Straightforward, time-saving installation: an installation result that not only fits perfectly, but one that also looks great. With a system for underfloor areas that delivers energy and data simply and safely to their destinations. Easy routing of pre-assembled lines with plug-and-play technology – and any re-routing can be done in the shortest possible time, as the floor panels can be lifted up and full accessibility is available over the entire length. The lines are distributed and divided into sections via multiple group connection points. These flexible, decentralised, freely combinable group connection points split energy connections into up to six self-locking input plugs. The pre-assembled device casings round off the system. Supply units with device casings and sockets are then installed in double floor panels with pre-assembled assembly openings.

Open-plan offices with large floor areas that are subdivided with partition walls into a large number of smaller computer workplaces but which need to retain the option of restructuring the floor plan will find this flexible system indispensable. The same applies to computer server rooms fitted with double floors, which offer maximum flexibility thanks to their design. In showrooms or exhibition stands that are regularly redesigned to specific requirements, fully-networked power and data networks can be integrated in this way.

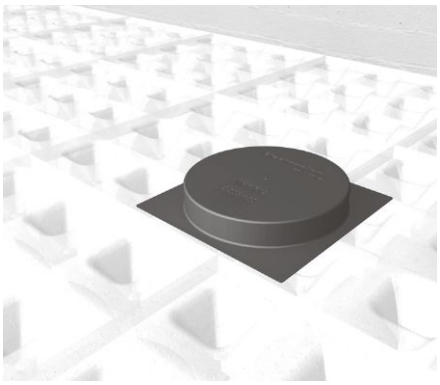


General information

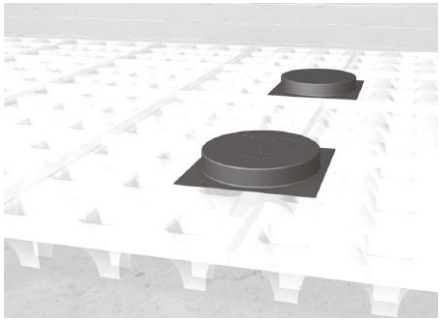
Applicability
These installation instructions apply to all casing elements of any size and shape.

Material
Casing elements are made of plastic.
Transport
Casing elements can be stacked to save space during transport.

110 mm
Casing elements with a height of 110 mm for higher screeds are available upon request.

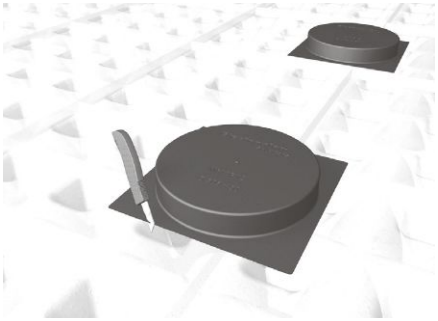


Position the casing elements



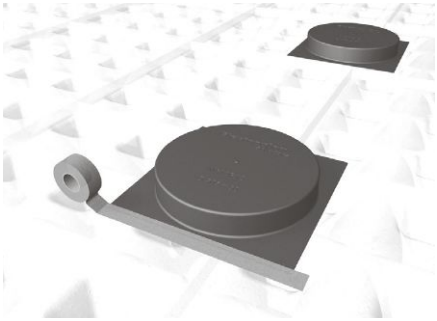
Position the casing elements on the cavity floor before casting the screed.

Trim the casing elements



If required, trim the edges of the casing elements so that directly bordering recesses can be filled with screed.

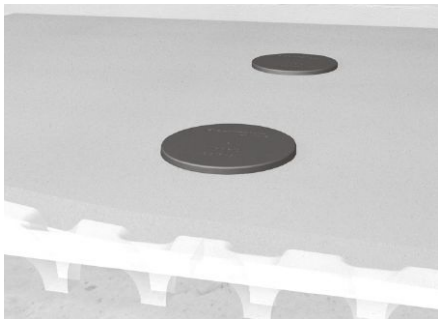
Mask the casing elements



Attach the casing element to the cavity floor (provided by the customer) using adhesive tape.

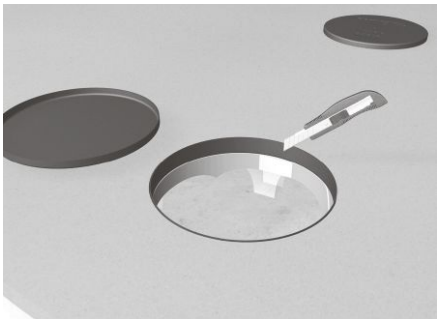
Caution:
Recesses allowing screed to enter into the casing element from outside must be sealed e.g. by fabric adhesive tape.

Cast the screed



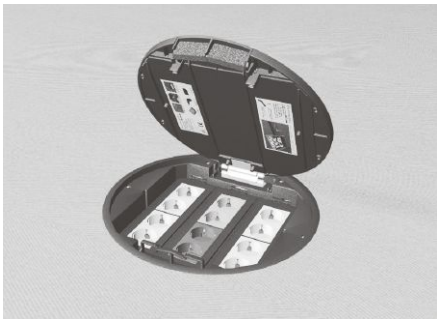
Cast the screed, filling the recessed structure of the cavity floor.

Cut off protruding material



Once the screed has hardened according to specifications, cut any protruding material off the casing element.

Install the service unit



After laying the flooring, insert the supply unit into the opening and secure it.

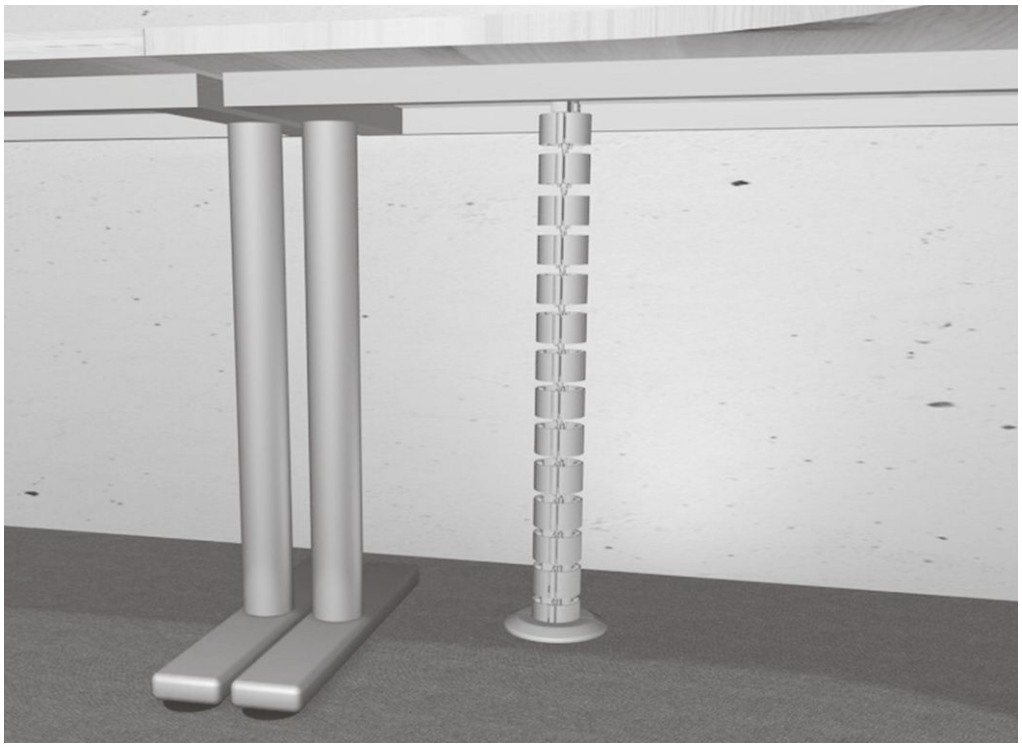
General instructions:

Floor-to-desk routing
Round conduit chain connecting floor to desk.

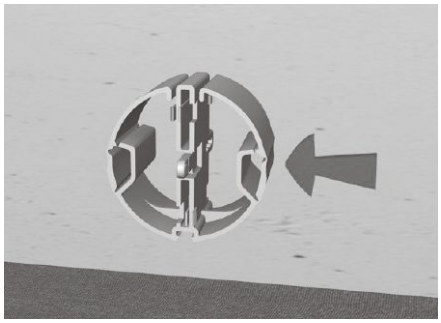
Protection
The chain provides reliable protection to the cables.

Simple and spacious
Easy to open and close thanks to a snap mechanism. It provides sufficient capacity for different cables.

Flexible
The chain is flexible in all directions but can also be locked to form a rigid connection.
Bending radii of luminous conductors or copper lines are not exceeded.

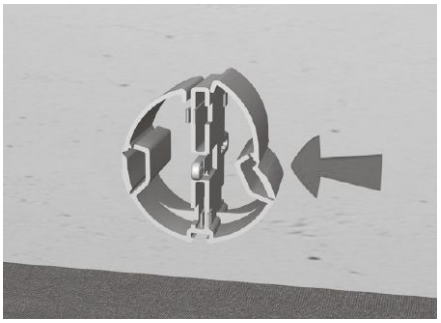


Push in the round chain



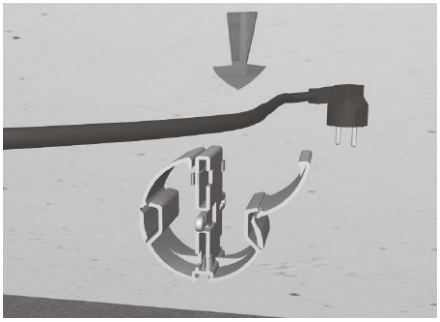
Push in the round chain at the sides.

Open the round chain



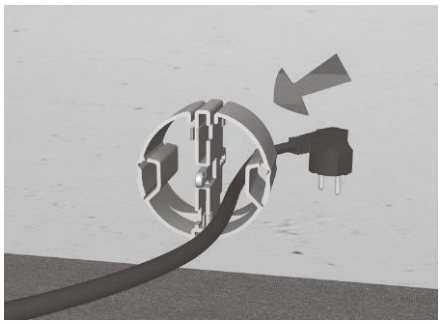
Press the lateral perforation to open the chain‘s snap mechanism.

Thread in the cables



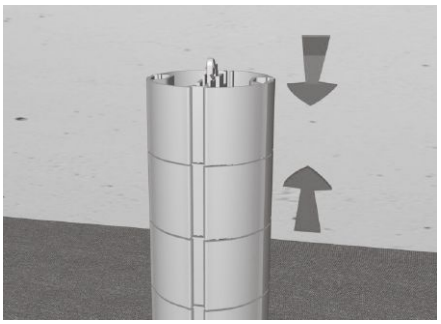
Insert cables from above into the opening.

Close the round chain



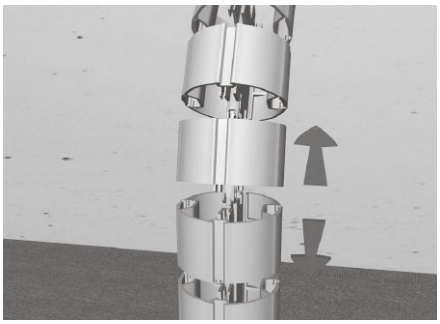
Push the upper lid of the round chain back to close it. The lid returns to its original position.

Create a rigid connection



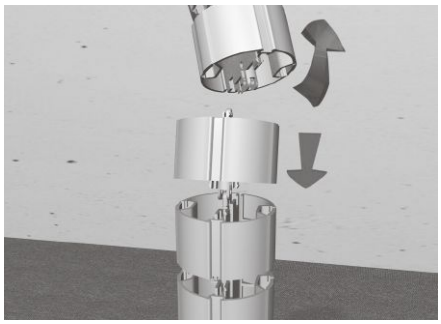
Push the links of the round chain together to create a rigid connection.

Create a flexible connection



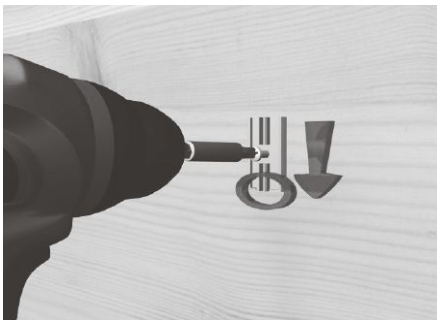
To make the round chain flexible, pull to release the catch mechanisms. The round chain is then flexible in all directions.

Split the round chain



Round chain links can be separated by turning and pulling.

Install the wall mount



Secure the wall mount to the wall using a screw. The wall mount must be attached in such a way that the guide slot is closed at the bottom.

Attach the round chain

Insert the round chain link with the slotted side from above into the wall mount.

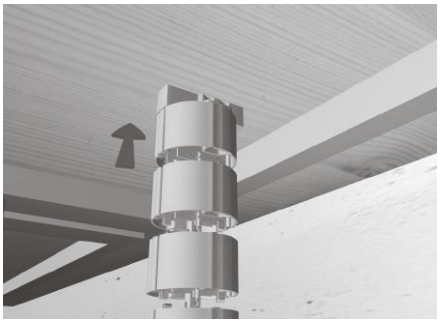
Snap in the round chain

Push the entire round chain into the guide groove from below.

Attach the connection adapter

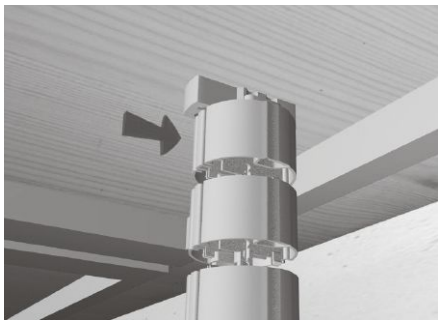
To attach the round chain to the underside of a desktop, the connection adapter must be mounted to the desktop underside.

Plug in the round chain



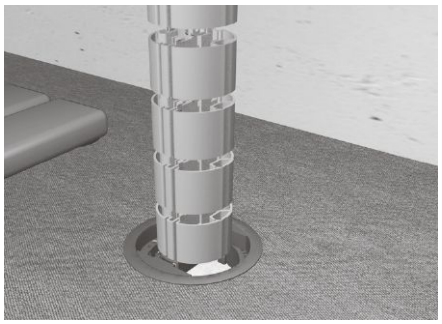
Push the round chain into the connection adapter from below.

Snap in the round chain



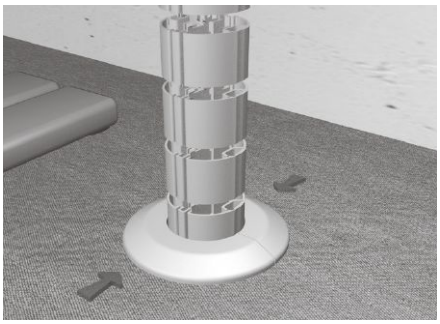
Push the round chain from the side into the centre of the connection adapter. The round chain snaps in and is then locked in position.

Connect to the cable outlet



Attach the round chain to the cable outlet in the same manner. Push it in and move it to the centre position from the side.

Install the rosette cover



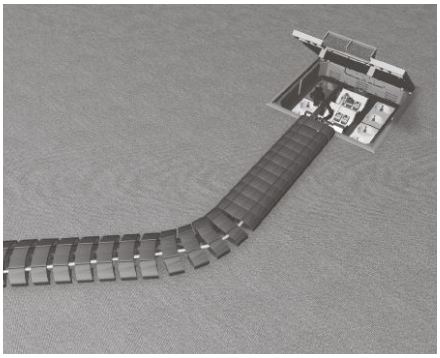
Position the two-piece rosette cover from both sides around the round chain and clip it together.

General instructions:

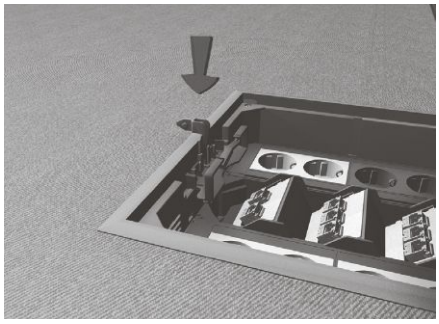
Flat
Flat flexible wire cover for running cables across the floor

Latching and spacious
The two latching positions allow the chain to make a rigid connection Two compartments facilitate the parallel routing of data and power lines

Rigidity
The rigid design ensures a high level of protection against stepping

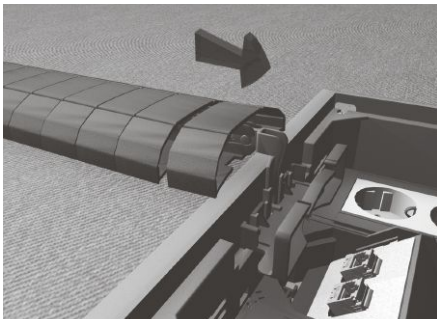


Insert the flexible wire cover adapter



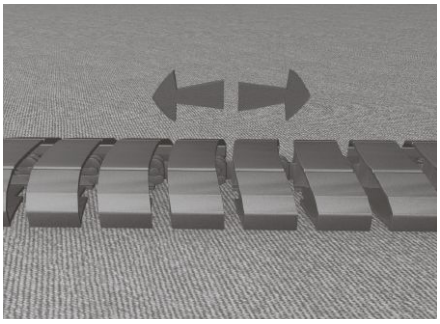
Insert the flexible wire cover adapter from above into the centre groove.

Connect the flexible wire cover



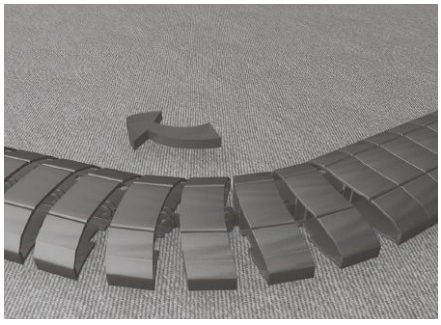
Clip the flexible wire cover with the groove into the latch of the flexible wire cover adapter.

Alternatively, expand the flexible wire cover



To make the flexible wire cover flexible, pull apart the individual joints until they are held by the second latching point.

Routing bends

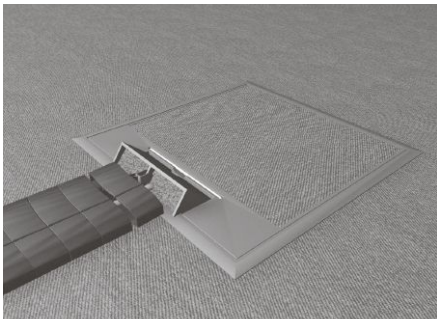


If the individual links of the flexible wire cover are pulled apart, they can also be routed in a radius.

Thread in the cables

Plug the connectors into the power sockets. Then push the cable from above into the flexible wire cover. The lateral perforation of the flexible wire cover link can be pushed down.

Close the lid



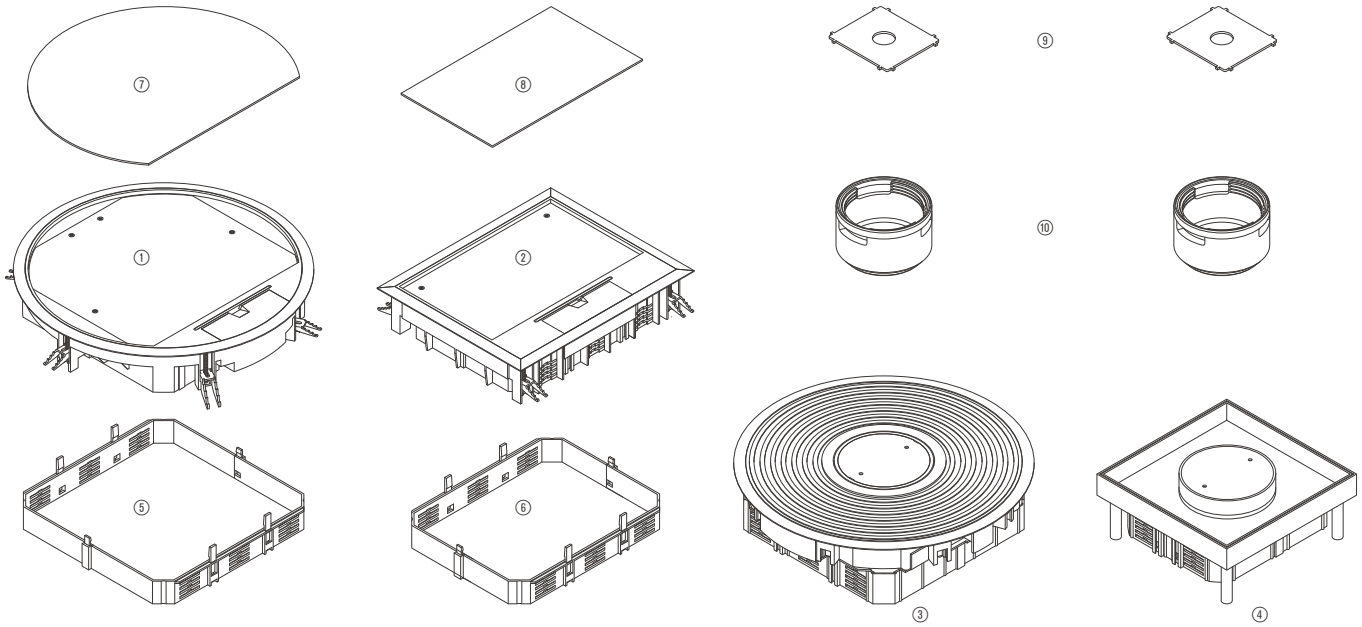
Close the lid of the supply unit. The cable outlet remains open when the flexible wire cover is connected.

Service units and installation units

electraplan.VE-EE

A system of perfectly matched components
Different sizes, shapes, materials and colours for different heights. Device installation solutions from Hager are available in various designs: rectangular, square or round, for dry-cleaned or wet-cleaned floors, for loads from 1,500 to 20,000 N, in various colours and materials, for the most diverse applications and screed heights of 40 to 100 mm.
Of course, these products offer all benefits of Hager system engineering: One mounting kit is all you need to install any service unit into any Electraplan underfloor trunking systems from Hager. The makes ordering easier because all service units, except VANR12 for wet-cleaned floors, are fitted at the factory with this mounting kit. This means: minimal effort and maximum reliability when ordering!

electraplan.VE-EE



electraplan.VE-EE

① Service unit VR12

② Service unit VE09

③ Service unit for wet-cleaned floors VANR12

④ Stainless-steel cassette Q06

⑤ Snap-in ladder extension RLV1230

⑥ Snap-in ladder extension RLVE0930

⑦ Cover inlay for service unit VR12

⑧ Cover inlay for service unit VE09

⑨ Pin wrench

⑩ Tube cable outlet

- Made of polyamide in accordance with DIN EN 50085-1 and -2-2 for dry rooms with dry-cleaned floors
- With carpet frame for 5 or 12 mm flooring thickness
- Universal mounting kit for installation in junction boxes, trunking systems, double floors or cavity floors
- Minimum installation depth with 5 mm flooring recess: 70 mm
- Minimum installation depth with 12 mm flooring recess: 77 mm

Material
Polyamide

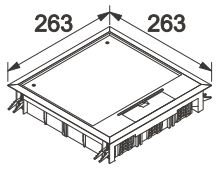
Available colours
RAL 7011, iron grey
RAL 9005, deep black

▶ from page 4.29

VQ12057011

Service unit VQ12

Properties:
- For up to 12 installation devices in 3 device casings GTVR400, GBVR400, GTVD300
- Device casings can be lowered in increments down to 18 mm
- Including cable holder
- Outer dimensions: 263 x 263 mm
- Installation dimensions: 244 x 244 mm

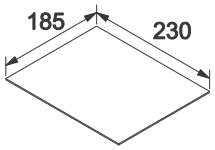


Designation	PU	Order no.
Service unit Q12 f 5mm flooring eg	4	**VQ12057011**
Service unit Q12 f 5mm flooring ts	4	**VQ12059005**
Service unit Q12 f 12mm flooring eg	3	**VQ12127011**
Service unit Q12 f 12mm flooring ts	3	**VQ12129005**

VEDEQ12P1

Cover inlay for service unit VQ12

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: 185.3 x 230 mm
- Material thickness: 1 mm - P1
  2 mm - P2

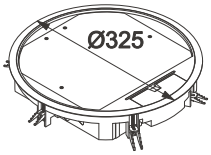


Designation	PU	Order no.
Cover inlay made of cardboard for VQ12 1mm	300	**VEDEQ12P1**
Cover inlay made of cardboard for VQ12 2mm	300	**VEDEQ12P2**

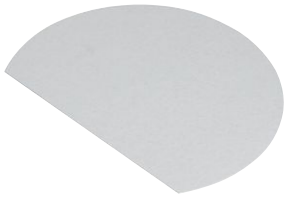
VR12057011

Service unit VR12

Properties:
- For up to 12 installation devices in 3 device casings GTVR400, GBVR400, GTVD300
- Device casings can be lowered in increments down to 18 mm
- Including cable holder
- Outer dimensions: Ø 325 mm
- Installation dimensions: Ø 306 mm



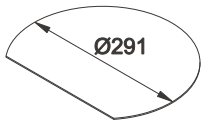
Designation	PU	Order no.
Service unit R12 f 5mm flooring eg	4	**VR12057011**
Service unit R12 f 5mm flooring ts	4	**VR12059005**
Service unit R12 f 12mm flooring eg	3	**VR12127011**
Service unit R12 f 12mm flooring ts	3	**VR12129005**



VEDER12P1

Cover inlay for service unit VR12

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: Ø 291 mm
- Material thickness: 1 mm - P1
  2 mm - P2

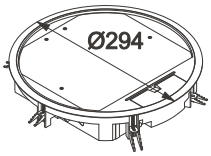


Designation	PU	Order no.
Cover inlay made of cardboard for VR12 1mm	300	**VEDER12P1**
Cover inlay made of cardboard for VR12 2mm	300	**VEDER12P2**

VR10057011

Service unit VR10

Properties:
- For up to 10 installation devices in 3 device casings
- 1 x device casing GTVR400, GBVR400, GTVD300 (centre) and 2 x device casing GTVR300, GBVR300, GTVD200 (left and right)
- Device casings can be lowered in increments down to 18 mm
- Including cable holder
- Outer dimensions: Ø 294 mm
- Installation dimensions: Ø 275 mm

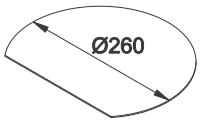


Designation	PU	Order no.
Service unit R10 f 5mm flooring eg	4	**VR10057011**
Service unit R10 f 5mm flooring ts	4	**VR10059005**
Service unit R10 f 12mm flooring eg	3	**VR10127011**
Service unit R10 f 12mm flooring ts	3	**VR10129005**

VEDER10P1

Cover inlay for service unit VR10

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: Ø 260 mm
- Material thickness: 1 mm - P1
  2 mm - P2

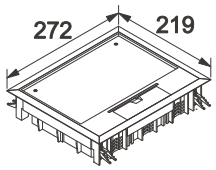


Designation	PU	Order no.
Cover inlay made of cardboard for VR10 1mm	300	**VEDER10P1**
Cover inlay made of cardboard for VR10 2mm	300	**VEDER10P2**

VE09057011

Service unit VE09

Properties:
- For up to 9 installation devices in 3 device casings GTVR300, GBVR300, GTVD200
- Device casings can be lowered in increments down to 18 mm
- Including cable holder
- Outer dimensions: 219 x 272 mm
- Installation dimensions: 200 x 253 mm

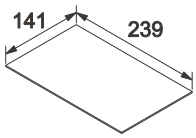


Designation	PU	Order no.
Service unit E09 f 5mm flooring eg	6	**VE09057011**
Service unit E09 f 5mm flooring ts	6	**VE09059005**
Service unit E09 f 12mm flooring eg	5	**VE09127011**
Service unit E09 f 12mm flooring ts	5	**VE09129005**

VEDEE09P1

Cover inlay for service unit VE09

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: 141.3 x 239 mm
- Material thickness: 1 mm - P1
  2 mm - P2

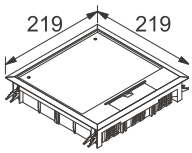


Designation	PU	Order no.
Cover inlay made of cardboard for VE09 1mm	300	**VEDEE09P1**
Cover inlay made of cardboard for VE09 2mm	300	**VEDEE09P2**

VQ06057011

Service unit VQ06

Properties:
- For up to 6 installation devices in 2 device casings GTVR300, GBVR300, GTVD200
- Device casings can be lowered in increments down to 18 mm
- Including cable holder
- Outer dimensions: 219 x 219 mm
- Installation dimensions: 200 x 200 mm

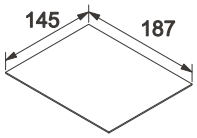


Designation	PU	Order no.
Service unit Q06 f 5mm flooring eg	7	**VQ06057011**
Service unit Q06 f 5mm flooring ts	7	**VQ06059005**
Service unit Q06 f 12mm flooring eg	6	**VQ06127011**
Service unit Q06 f 12mm flooring ts	6	**VQ06129005**

VEDEQ06P1

Cover inlay for service unit VQ06

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: 145.3 x 187 mm
- Material thickness: 1 mm - P1
  2 mm - P2

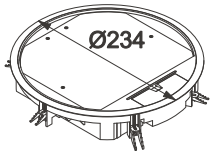


Designation	PU	Order no.
Cover inlay made of cardboard for VQ06 1mm	300	**VEDEQ06P1**
Cover inlay made of cardboard for VQ06 2mm	300	**VEDEQ06P2**

VR06057011

Service unit VR06

Properties:
- For up to 6 installation devices in 3 device casings GTVR300, GBVR300, GTVD200
- Device casings can be lowered in increments down to 18 mm
- Including cable holder
- Outer dimensions: Ø 234 mm
- Installation dimensions: Ø 215 mm

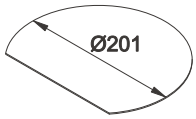


Designation	PU	Order no.
Service unit R06 f 5mm flooring eg	7	**VR06057011**
Service unit R06 f 5mm flooring ts	7	**VR06059005**
Service unit R06 f 12mm flooring eg	6	**VR06127011**
Service unit R06 f 12mm flooring ts	6	**VR06129005**

VEDER06P1

Cover inlay for service unit VR06

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: Ø 201 mm
- Material thickness: 1 mm - P1
  2 mm - P2



Designation	PU	Order no.
Cover inlay made of cardboard for VR06 1mm	300	**VEDER06P1**
Cover inlay made of cardboard for VR06 2mm	300	**VEDER06P2**

- Made of polyamide in accordance with DIN EN 50085-1 and -2-2 for dry rooms with dry-cleaned floors
- With carpet frame for 5 or 12 mm flooring thickness
- Universal mounting kit for installation in junction boxes, trunking systems, double floors or cavity floors
- Minimum installation depth with 5 mm flooring recess: 60 mm
- Minimum installation depth with: 12 mm flooring recess: 65 mm

Material
Polyamide

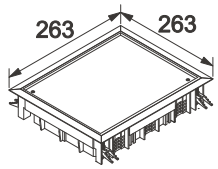
Available colours
RAL 7011, iron grey
RAL 9005, deep black

▶ from page 4.29

VDQ12057011

Cover VDQ12

Properties:
- Outer dimension: 263 x 263 mm
- Installation dimensions: 244 x 244 mm

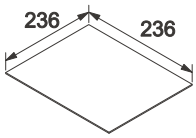


Designation	PU	Order no.
Cover Q12 f 5mm flooring eg	4	**VDQ12057011**
Cover Q12 f 5mm flooring ts	4	**VDQ12059005**
Cover Q12 f 12mm flooring eg	3	**VDQ12127011**
Cover Q12 f 12mm flooring ts	3	**VDQ12129005**

VDDEQ12P1

Cover inlay for cover VDQ12

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: 236 x 236 mm
- Material thickness: 1 mm - P1
  2 mm - P2

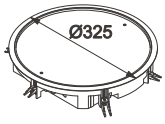


Designation	PU	Order no.
Cover inlay made of cardboard for VDQ12 1mm	300	**VDDEQ12P1**
Cover inlay made of cardboard for VDQ12 2mm	300	**VDDEQ12P2**

VDR12057011

Cover VDR12

Properties:
- Outer dimensions: Ø 325 mm
- Installation dimensions: Ø 306 mm



Designation	PU	Order no.
Cover R12 f 5mm flooring eg	4	**VDR12057011**
Cover R12 f 5mm flooring ts	4	**VDR12059005**
Cover R12 f 12mm flooring eg	3	**VDR12127011**
Cover R12 f 12mm flooring ts	3	**VDR12129005**

VDDER12P1

Cover inlay for cover VDR12

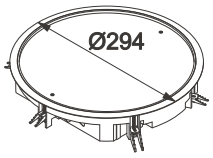
Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: Ø 297 mm
- Material thickness: 1 mm - P1
  2 mm - P2

Designation	PU	Order no.
Cover inlay made of cardboard for VDR12 1mm	300	**VDDER12P1**
Cover inlay made of cardboard for VDR12 2mm	300	**VDDER12P2**

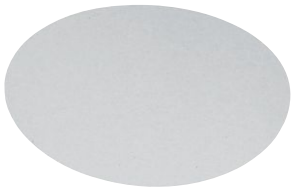
VDR10057011

Cover VDR10

Properties:
- Outer dimensions: Ø 294 mm
- Installation dimensions: Ø 275 mm

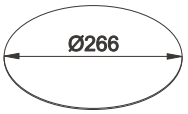


Designation	PU	Order no.
Cover R10 f 5mm flooring eg	4	**VDR10057011**
Cover R10 f 5mm flooring ts	4	**VDR10059005**
Cover R10 f 12mm flooring eg	3	**VDR10127011**
Cover R10 f 12mm flooring ts	3	**VDR10129005**



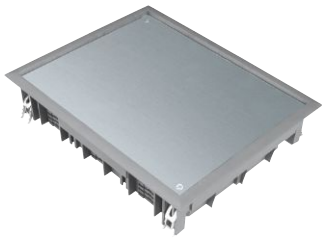
VDDER10P1

Cover inlay for cover VDR10



Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: Ø 266 mm
- Material thickness: 1 mm - P1
  2 mm - P2

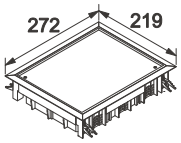
Designation	PU	Order no.
Cover inlay made of cardboard for VDR10 1mm	300	**VDDER10P1**
Cover inlay made of cardboard for VDR10 2mm	300	**VDDER10P2**



VDE09057011

Cover VDE09

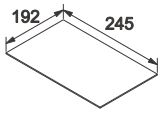
Properties:
- Outer dimension: 219 x 272 mm
- Installation dimensions: 200 x 253 mm



Designation	PU	Order no.
Cover E09 f 5mm flooring eg	6	**VDE09057011**
Cover E09 f 5mm flooring ts	6	**VDE09059005**
Cover E09 f 12mm flooring eg	5	**VDE09127011**
Cover E09 f 12mm flooring ts	5	**VDE09129005**

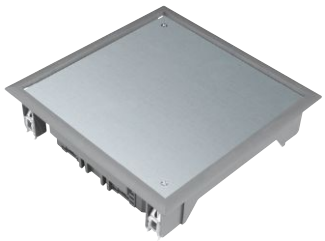
VDDEE09P1

Cover inlay for cover VDE09



Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: 192 x 245 mm
- Material thickness: 1 mm - P1
  2 mm - P2

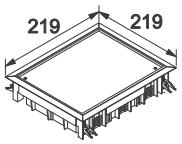
Designation	PU	Order no.
Cover inlay made of cardboard for VDE09 1mm	300	**VDDEE09P1**
Cover inlay made of cardboard for VDE09 2mm	300	**VDDEE09P2**



VDQ06057011

Cover VDQ06

Properties:
- Outer dimension: 219 x 219 mm
- Installation dimensions: 200 x 200 mm

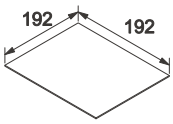


Designation	PU	Order no.
Cover Q06 f 5mm flooring eg	7	**VDQ06057011**
Cover Q06 f 5mm flooring ts	7	**VDQ06059005**
Cover Q06 f 12mm flooring eg	6	**VDQ06127011**
Cover Q06 f 12mm flooring ts	6	**VDQ06129005**

VDDEQ06P1

Cover inlay for cover VDQ06

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: 192 x 192 mm
- Material thickness: 1 mm - P1
  2 mm - P2

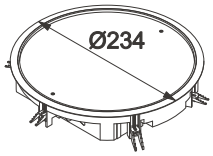


Designation	PU	Order no.
Cover inlay made of cardboard for VDQ06 1mm	300	**VDDEQ06P1**
Cover inlay made of cardboard for VDQ06 2mm	300	**VDDEQ06P2**

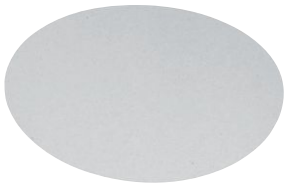
VDR06057011

Cover VDR06

Properties:
- Outer dimensions: Ø 234
- Installation dimensions: Ø 215 mm



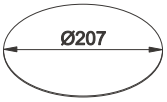
Designation	PU	Order no.
Cover R06 f 5mm flooring eg	7	**VDR06057011**
Cover R06 f 5mm flooring ts	7	**VDR06059005**
Cover R06 f 12mm flooring eg	1	**VDR06127011**
Cover R06 f 12mm flooring ts	1	**VDR06129005**



VDDER06P1

Cover inlay for cover VDR06

Properties:
- Cover inlay made of cardboard to serve as spacer between cover and flooring
- Dimensions: Ø 207 mm
- Material thickness: 1 mm - P1
  2 mm - P2



Designation	PU	Order no.
Cover inlay made of cardboard for VDR06 1mm	300	**VDDER06P1**
Cover inlay made of cardboard for VDR06 2mm	300	**VDDER06P2**

- Stainless-steel service units
- Made of stainless steel in accordance with DIN EN 60670-1 for dry rooms with dry-cleaned floors
- With carpet frame for 12 mm flooring thickness
- Universal mounting kit for installation in junction boxes, trunking systems, double floors or cavity floors
- Minimum installation depth with 12 mm flooring recess: 77 mm

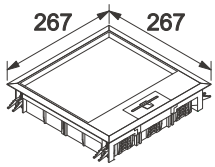
Material
Stainless steel

▶ from page 4.29

VEQ1212E

Service unit VQ12 made of stainless steel

Properties:
- For up to 12 installation devices in 3 device casings GTVR400, GBVR400, GTVD300
- Device casings can be lowered in increments down to 18 mm
- Outer dimensions: 267 x 267 mm
- Installation dimensions: 244 x 244 mm

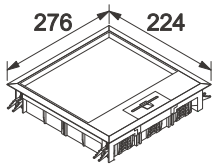


Designation	PU	Order no.
Service unit Q12 made of stainless steel	1	**VEQ1212E**

VEE0912E

Service unit VE09 made of stainless steel

Properties:
- For up to 9 installation devices in 3 device casings GTVR300, GBVR300, GTVD200
- Device casings can be lowered in increments down to 18 mm
- Outer dimensions: 224 x 276 mm
- Installation dimensions: 200 x 253 mm

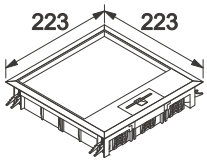


Designation	PU	Order no.
Service unit E09 made of stainless steel	1	**VEE0912E**

VEQ0612E

Service unit VQ06 made of stainless steel

Properties:
- For up to 6 installation devices in 2 device casings GTVR300, GBVR300, GTVD200
- Device casings can be lowered in increments down to 18 mm
- Outer dimensions: 223 x 223 mm
- Installation dimensions: 200 x 200 mm



Designation	PU	Order no.
Service unit Q06 made of stainless steel	1	**VEQ0612E**

- Height-adjustable stainless-steel cassettes for dry-cleaned and wet-cleaned floors
- Load-bearing capacity in accordance with DIN EN 60670-1, -23 up to 1500 N
- Two variants:
- Q06: Installation opening: 200 x 200 mm for up to 6 installation devices in 2 device casings GTVR300, GBVR300 or GTVD200
- Q12: Installation opening: 244 x 244 mm for up to 12 installation devices in 3 device casings GTVR400, GBVR400 or GTVD300
- Device casings can be lowered in increments down to 18 mm
- Also fits a snap-in ladder extension
- Two cassette heights:
  1: Cassette height 23 mm inside, 28 mm outside
  2: Cassette height 38 mm inside, 43 mm outside
- Minimum installation depth from top edge of finished floor: 100 x 115 mm

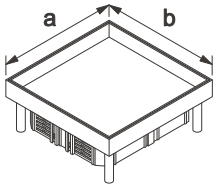
Material
Stainless steel

Note
Order one levelling set EKNS per cassette as an option

▶ from page 4.29

EKQ0600BL1

Height-adjustable stainless-steel cassette, blank, square, for wet-cleaned floors

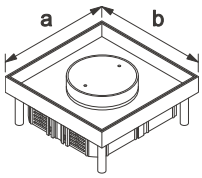


Designation	a [mm]	b [mm]	PU	Order no.
Stainless-steel cassette Q06 BL outer height 28mm	200	200	1	**EKQ0600BL1**
Stainless-steel cassette Q06 BL outer height 43mm	200	200	1	**EKQ0600BL2**
Stainless-steel cassette Q12 BL outer height 28mm	244	244	1	**EKQ1200BL1**
Stainless-steel cassette Q12 BL outer height 43mm	244	244	1	**EKQ1200BL2**

EKQ0600TM1

Height-adjustable stainless-steel cassette, with tube mounting set, square, for wet-cleaned floors

Properties:
- The tube cable outlet is not included in the supply

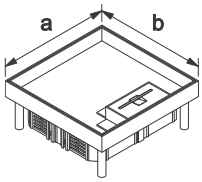


Designation	a [mm]	b [mm]	PU	Order no.
Stainless-steel cassette Q06 TM outer height 28mm	200	200	1	**EKQ0600TM1**
Stainless-steel cassette Q06 TM outer height 43mm	200	200	1	**EKQ0600TM2**
Stainless-steel cassette Q12 TM outer height 28mm	244	244	1	**EKQ1200TM1**
Stainless-steel cassette Q12 TM outer height 43mm	244	244	1	**EKQ1200TM2**

EKQ0600LE1

Height-adjustable stainless-steel cassette with cable outlet, square, for wet-cleaned floors

Properties:
- Cable outlet variant: rectangular (LE)



Designation	a [mm]	b [mm]	PU	Order no.
Stainless-steel cassette Q06 LE outer height 28mm	200	200	1	**EKQ0600LE1**
Stainless-steel cassette Q06 LE outer height 43mm	200	200	1	**EKQ0600LE2**
Stainless-steel cassette Q12 LE outer height 28mm	244	244	1	**EKQ1200LE1**
Stainless-steel cassette Q12 LE outer height 43mm	244	244	1	**EKQ1200LE2**

- Height-adjustable stainless-steel cassettes for dry-cleaned and wet-cleaned floors
- Load-bearing capacity in accordance with DIN EN 60670-1, -23: up to 1500 N
- Two variants:
- R06: Installation opening: Ø 215 mm for up to 6 installation devices in 2 device casings GTVR300, GBVR300 or GTVD200
- R12: Installation opening: Ø 306 mm for up to 12 installation devices in 3 device casings GTVR400, GBVR400 or GTVD300
- Device casings can be lowered in increments down to 18 mm
- Also fits a snap-in ladder extension
- Two cassette heights: 1: Cassette height 23 mm inside, 28 mm outside 2: Cassette height 38 mm inside, 43 mm outside
- Minimum installation depth from top edge of finished floor: 100 x 115 mm

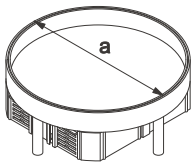
Material
Stainless steel

Note
Order one levelling set for cassettes EKNS per cassette as an option

▶ from page 4.29

EKR0600BL1

Height-adjustable stainless-steel cassette, blank, round, for wet-cleaned floors

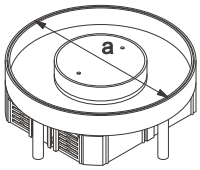


Designation	a [mm]	PU	Order no.
Stainless-steel cassette R06 BL outer height 28mm	215	1	**EKR0600BL1**
Stainless-steel cassette R06 BL outer height 43mm	215	1	**EKR0600BL2**
Stainless-steel cassette R12 BL outer height 28mm	300	1	**EKR1200BL1**
Stainless-steel cassette R12 BL outer height 43mm	300	1	**EKR1200BL2**

EKR0600TM1

Height-adjustable stainless-steel cassette, with tube mounting set, round, for wet-cleaned floors

Properties:
- The tube cable outlet is not included in the supply

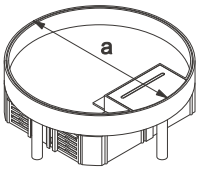


Designation	a [mm]	PU	Order no.
Stainless-steel cassette R06 TM outer height 28mm	215	1	**EKR0600TM1**
Stainless-steel cassette R06 TM outer height 43mm	215	1	**EKR0600TM2**
Stainless-steel cassette R12 TM outer height 28mm	300	1	**EKR1200TM1**
Stainless-steel cassette R12 TM outer height 43mm	300	1	**EKR1200TM2**

EKR0600LE1

Height-adjustable stainless-steel cassette with square cable outlet for dry-cleaned floors

Properties:
- Cable outlet variant: rectangular (LE)



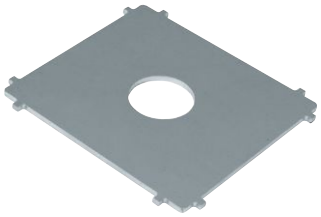
Designation	a [mm]	PU	Order no.
Stainless-steel cassette R06 LE outer height 28mm	215	1	**EKR0600LE1**
Stainless-steel cassette R06 LE outer height 43mm	215	1	**EKR0600LE2**
Stainless-steel cassette R12 LE outer height 28mm	300	1	**EKR1200LE1**
Stainless-steel cassette R12 LE outer height 43mm	300	1	**EKR1200LE2**

TULAA105

Tube cable outlet

Properties:
- Floor-protruding cable outlet made of aluminium
- Without tube blank lid
- Outer diameter: 105 mm
- Inner diameter: 80 mm
- Material: Aluminium, naturally anodised

Designation	PU	Order no.
Tube cable outlet, aluminium w/o cover	1	**TULAA105**



TUSS000

Pin wrench

Properties:
- For removal and installation of tube blank lid

Designation	PU	Order no.
Pin wrench for tube blank lid	1	**TUSS000**

EKNS075

Levelling set for cassette cover

Properties:
- Comprises 4 x studs M8, 4 x lock nuts M8, 4 x foot retainers
- Levelling range relates to top edge of finished floor

Designation Levelling range	PU	Order no.
Levelling set f stainless-steel cass. 100-150mm	1	**EKNS075**
Levelling set f stainless-steel cass. 145-195mm	1	**EKNS120**
Levelling set f stainless-steel cass. 190-240mm	1	**EKNS165**

- Stand-alone, robust under-floor junction box system with traversable cassette cover, for dry rooms with dry-cleaned or wet-cleaned floors
- Maximum load-bearing capacity: 20 kN
- The minimum installation height of this cassette is 100 mm, plus the height of the trunking connected

Material
Stainless steel / steel

Note
Order one levelling set for cassettes EKSNS per cassette as an option

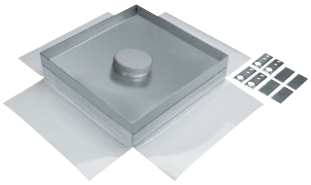
▶ from page 4.29

EKSQ405BL

Heavy-duty cassette Q405 blank

Properties:
- Outer dimension: 405 x 405 mm
- Cassette cover outer dimension: 44 mm
- Cassette cover inner dimension: 28 mm

Designation	PU	Order no.
Stainless-steel cassette Q405 blank 20 kN	1	**EKSQ405BL**

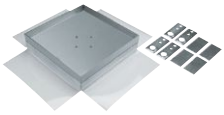


EKSQ405TM

Heavy-duty cassette Q405 with tube mounting set

Properties:
- Outer dimension: 405 x 405 mm
- Cassette cover outer dimension: 44 mm
- Cassette cover inner dimension: 28 mm
- A snap-in latching rail is required in order to use installation devices
- The snap-in latching rail accepts up to 12 installation devices in 3 device casings

Designation	PU	Order no.
Stainless-steel cassette Q405 TM 20 kN	1	**EKSQ405TM**

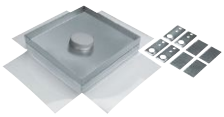


EKSQ1220BL

Heavy-duty cassette Q12 blank

Properties:
- Outer dimension: 243 x 234 mm
- Cassette cover outer dimension: 38 mm
- Cassette cover inner dimension: 23 mm

Designation	PU	Order no.
Stainless-steel cassette Q12 blank 20 kN	1	**EKSQ1220BL**

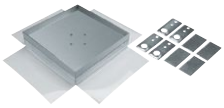


EKSQ1220TM

Heavy-duty cassette Q12 with tube mounting set

Properties:
- Outer dimension: 243 x 234 mm
- Cassette cover outer dimension: 38 mm
- Cassette cover inner dimension: 23 mm
- Fitting installation devices requires a snap-in latching rail
- The snap-in latching rail accepts up to 12 installation devices in 3 device casings

Designation	PU	Order no.
Stainless-steel cassette Q12 TM 20 kN	1	**EKSQ1220TM**

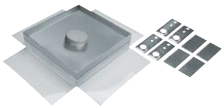


EKSQ0620BL

Heavy-duty cassette Q06 blank

Properties:
- Outer dimension: 200 x 200 mm
- Cassette cover outer dimension: 34 mm
- Cassette cover inner dimension: 23 mm

Designation	PU	Order no.
Stainless-steel cassette Q06 blank 20 kN	1	**EKSQ0620BL**



EKSQ0620TM

Heavy-duty cassette Q06 with tube mounting set

Properties:
- Outer dimension: 200 x 200 mm
- Cassette cover outer dimension: 34 mm
- Cassette cover inner dimension: 23 mm
- Fitting installation devices requires a snap-in latching rail
- The snap-in latching rail accepts up to 6 installation devices in 2 device casings

Designation	PU	Order no.
Stainless-steel cassette Q06 TM 20 kN	1	**EKSQ0620TM**

Heavy-duty cassette R12 blank

Properties:
- Outer dimension: Ø 305 mm
- Cassette cover outer dimension: 38 mm
- Cassette cover inner dimension: 23 mm

Designation	PU	Order no.
Stainless-steel cassette R12 blank 20 kN	1	**EKSR1220BL**

Heavy-duty cassette R12 with tube mounting set

Properties:
- Outer dimension: Ø 305 mm
- Cassette cover outer dimension: 38 mm
- Cassette cover inner dimension: 23 mm
- Fitting installation devices requires a snap-in latching rail
- The snap-in latching rail accepts up to 12 installation devices in 3 device casings

Designation	PU	Order no.
Stainless-steel cassette R12 TM 20 kN	1	**EKSR1220TM**

Heavy-duty cassette R06 blank

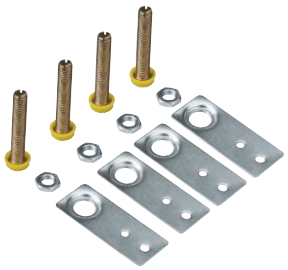
Properties:
- Outer dimension: Ø 215 mm
- Cassette cover outer dimension: 34 mm
- Cassette cover inner dimension: 23 mm

Designation	PU	Order no.
Stainless-steel cassette R06 blank 20 kN	1	**EKSR0620BL**

Heavy-duty cassette R06 with tube mounting set

Properties:
- Outer dimension: Ø 215 mm
- Cassette cover outer dimension: 38 mm
- Cassette cover inner dimension: 23 mm
- Fitting installation devices requires a snap-in latching rail
- The snap-in latching rail accepts up to 6 installation devices in 2 device casings

Designation	PU	Order no.
Stainless-steel cassette R06 TM 20 kN	1	**EKSR0620TM**



EKSNS070

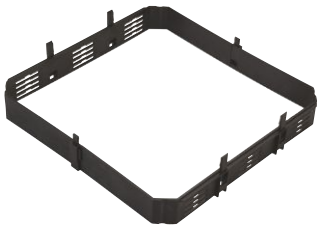
Levelling set for heavy-duty cassette

Properties:
- Comprising 4 x studs M12 with insulation cap and retaining tab
- Levelling range relates to top edge of finished floor

Designation Levelling range	PU	Order no.
Levelling set f cassette 20 kN 115-150mm	1	**EKSNS070**
Levelling set f cassette 20 kN 150-180mm	1	**EKSNS100**
Levelling set f cassette 20 kN 170-200mm	1	**EKSNS120**

- For incremental lowering of device casings down to 30 mm
- Snap-in ladder extensions can be stacked
- The snap-in ladder extension is supplied in 2 pieces that are plugged together on site

▶ from page 4.29

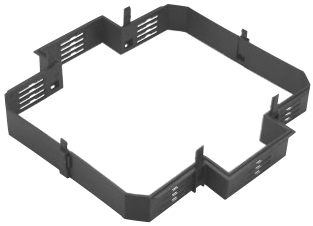


RLV1230

Snap-in ladder extension RLV1230

Properties:
- Fits VQ12/R12

Designation	PU	Order no.
Snap-in ladder extension f Q12 R12 um 30mm	75	**RLV1230**

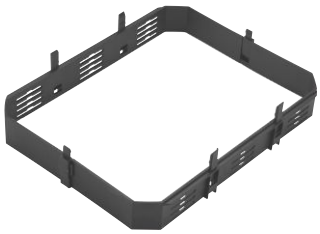


RLVR1030

Snap-in ladder extension RLVR1030

Properties:
- Fits VR10

Designation	PU	Order no.
Snap-in ladder extension f R10 um 30mm	20	**RLVR1030**

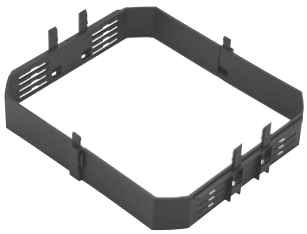


RLVE0930

Snap-in ladder extension RLVE0930

Properties:
- Fits VE09

Designation	PU	Order no.
Snap-in ladder extension f E09 by 30mm	32	**RLVE0930**



RLV0630

Snap-in ladder extension RLV0630

Properties:
- Fits VQ06/R06

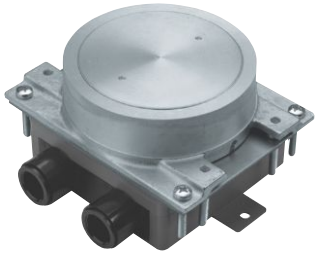
Designation	PU	Order no.
Snap-in ladder extension f Q06 R06 by 30mm	135	**RLV0630**

- Junction boxes for dry rooms with dry-cleaned or wet-cleaned floors, for flush installation into finished floor
- For floorings with a maximum thickness of 30 mm, including adhesive, e.g. for wood, stone or tile flooring
- As device casing for an installation device, for the connection of max. 2 pipes M20/M25
- Top edge of junction box equals the height of the finished floor
- Complete with cover, one sealing strip and one pipe inlet
- Includes support ring for 1 support bracket device

Material
Cast upper part made of aluminium, lower part made of plastic

Installation height
90 – 115 mm

▶ from page 4.29

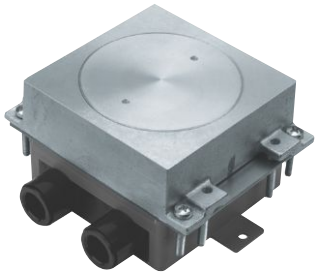


UDAR125A

Junction box, round

Properties:
- Upper part made of aluminium

Designation	PU	Order no.
Junction box, round, 125 mm, upper part alum.	1	**UDAR125A**



UDAQ125A

Junction box, square

Properties:
- Upper part made of aluminium

Designation	PU	Order no.
Junction box, square, 125 mm, upper part alum.	1	**UDAQ125A**

UDLA0000

Cable outlet for junction boxes

Properties:
- Replaces existing blank cover
- With hinged cover and notch for cable outlet

Designation	PU	Order no.
Cable outlet for junction box UDAR/Q	1	**UDLA0000**

ESN19010

Schuko socket

Properties:
- 2-pole 16 A/250 V

Designation	PU	Order no.
Schuko socket, 2-pole pure white	10	**ESN19010**

UDKPQ06E

Complete underfloor junction box package, stainless steel

Properties:
- Including stainless-steel cassette Q06, two device casings GBVR300, casing cover GBMBV23T2, 2 partition walls GTVRT00, triple socket ESR3339010 with cover GBMBV34R3
- With factory-mounted footfall sound insulation
- 4 set screws M8
- Screed cover including screws
- Minimum installation height 105 mm
- Levelling range + 50 mm
- M20 / M25 cut-outs for the connection of installation pipes
- Installation opening 200 x 200 mm

Designation	PU	Order no.
Compl pack junct. box incl ss cass. Q06	1	**UDKPQ06E**

UDKPQ067011

Complete underfloor junction box package

Properties:
- Including service unit VQ06, two device casings GBVR300, casing cover GBMBV23T2, 2 partition walls GTVRT00, triple socket ESR3339010 with cover GBMBV34R3
- With factory-mounted footfall sound insulation
- 4 set screws M8
- Screed cover including fastening screws
- Minimum installation height 95 mm
- M20 / M25 cut-outs for the connection of installation pipes
- Installation opening 200 x 200 mm

Designation	PU	Order no.
Compl pack junct. box incl VQ06 iron grey	1	**UDKPQ067011**
Compl pack junct. box incl VQ06 deep black	1	**UDKPQ069005**

UDBDQ06

Junction box

Properties:
- Junction box accepting service units VQ06 and VEQ06 or cassettes EKQ06
- With factory-mounted footfall sound insulation
- Screed cover including Fastening screws
- Minimum installation height 95 mm
- M20 / M25 cut-outs for the connection of installation pipes
- Installation opening 200 x 200 mm

Designation	PU	Order no.
Junction box for VQ06 or KQ06	1	**UDBDQ06**

- Massive, high-quality junction box made of brushed stainless steel or bronze casting.
- Protection class IP20 Traversable variant. Unobtrusive and noble appeal. Suitable for floors, walls or furniture.
- Furnished with a Rastec 45 socket and a RJ45 data module
- Carpet frame overlaps flooring trim edge

▶ from page 4.29

BSQRJ45R45E

Floor socket, square

Properties:
- Minimum installation depth: 60 mm
- Installation dimensions: 101 x 101 mm
- E - stainless steel
- B - bronze

Designation	PU	Order no.
Floor socket square single a. RJ45 stainl.	1	**BSQRJ45R45E**
Floor socket round single a. RJ45 bronze	1	**BSQRJ45R45B**

BSRRJ45R45E

Floor socket, round

Properties:
- Minimum installation depth: 60 mm
- Installation dimensions: 101 x 101 mm
- E - stainless steel
- B - bronze

Designation	PU	Order no.
Floor socket round single a. RJ45 stainl.	1	**BSRRJ45R45E**
Floor socket round single a. RJ45 bronze	1	**BSRRJ45R45B**

BSFRJ45R45E

Floor socket, square, with wing opening

Properties:
- Minimum installation depth: 48 mm
- Installation dimensions: 107 x 107 mm
- E - stainless steel
- B - bronze

Designation	PU	Order no.
Floor socket, wing, single a. RJ45 stainl.	1	**BSFRJ45R45E**
Floor socket, wing, single a. RJ45 bronze	1	**BSFRJ45R45B**

- Pedestal boxes made of polyamide for installation projecting the floor
- For two voltage types max.

Material
Polyamide

Available colours
RAL 7011, iron grey
RAL 9005, deep black

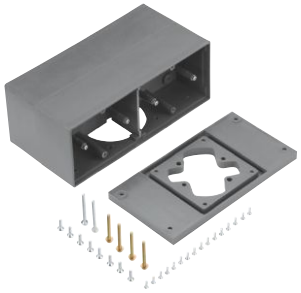
▶ from page 4.29

GBZ27011

Pedestal box 2

Properties:
- Two installation fields, one front and one rear

Designation	PU	Order no.
GB pedestal box 2 inst. fields eg	1	**GBZ27011**
GB pedestal box 2 inst. fields ts	1	**GBZ29005**



GBZ47011

Pedestal box 4

Properties:
- Four installation fields, two front and two rear
- Including 2 partition walls

Designation	PU	Order no.
GB pedestal box 4 inst. fields eg	1	**GBZ47011**
GB pedestal box 4 inst. fields ts	1	**GBZ49005**

GBZ87011

Pedestal box 8

Properties:
- Eight installation fields, four front and four rear
- Including 4 partition walls

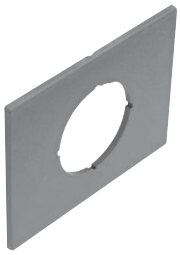
Designation	PU	Order no.
GB pedestal box 8 inst. fields eg	1	**GBZ87011**
GB pedestal box 8 inst. fields ts	1	**GBZ89005**

GBZWB7011

Installation wall, blank

Properties:
- Installation walls for each installation field of the pedestal boxes
- Blank

Designation	PU	Order no.
Installation wall, blank, f 1 inst. field eg	10	**GBZWB7011**
Installation wall, blank, f 1 inst. field ts	50	**GBZWB9005**



GBZWN7011

Installation wall standard D

Properties:
- Installation walls for each installation field of the pedestal boxes
- For installation of support bracket devices

Designation	PU	Order no.
Installation wall std.D f 1 inst. field eg	50	**GBZWN7011**
Installation wall std.D f 1 inst. field ts	50	**GBZWN9005**

GBZWR17011

Installation wall for 1 x Rastec 50

Properties:
- Installation walls for each installation field of the pedestal boxes
- Installation of a Rastec 45 device requires adapter frame GBMAR5045

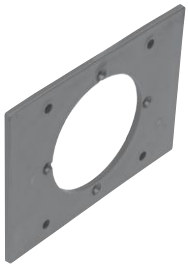
Designation	PU	Order no.
Installation wall 1xRtc f 1 inst. field eg	10	**GBZWR17011**
Installation wall 1xRtc f 1 inst. field ts	50	**GBZWR19005**

GBZWR27011

Installation wall for 2 x Rastec 50

Properties:
- Installation walls for each installation field of the pedestal boxes
- Installation of two Rastec 45 devices requires two adapter frames GBMAR5045

Designation	PU	Order no.
Installation wall 2xRtc f 1 inst. field eg	10	**GBZWR27011**
Installation wall 2xRtc f 1 inst. field ts	50	**GBZWR29005**



GBZWC7011

Installation wall CEE

Properties:
- Installation walls for each installation field of the pedestal boxes
- For installation of CEE devices

Designation	PU	Order no.
Installation wall CEE f 1 inst. field eg	10	**GBZWC7011**
Installation wall CEE f 1 inst. field ts	10	**GBZWC9005**

GBZKR00

Clamping ring

Properties:
- Required for assembly of pedestal box bases on screed-embedded trunking systems, cavity floors or double floors

Designation	PU	Order no.
Clamping ring for assembly with UK HB or DB	1	**GBZKR00**

- Hinged cover with carpet frame made of polyamide in accordance with DIN EN 50085-1 and -2-2
- Mounting kit with a clamping range of 5 - 15 mm plus the flooring thickness stated on the hinged cover for junction boxes, flush floor trunking system, floor-mounted trunking system
- For 5 mm or 12 mm flooring height
- Installation height: from 50 mm

Material
Polyamide

Available colours
RAL 7011, iron grey
RAL 9005, deep black

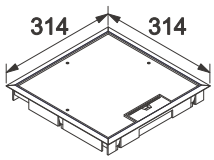
Note
Other flooring thicknesses and mounting systems are available upon request

▶ from page 4.29

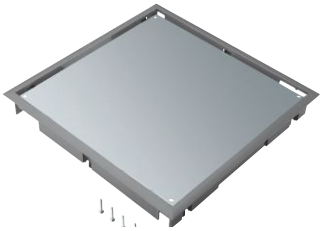
KDQ08057011

Hinged cover KDQ08 for ultra-low installation depth

Properties:
- For up to 8 installation devices in 4 device casings GBES2 or GBM5050
- Outer dimension of flooring frame: 314 x 314 mm
- Installation dimensions: 294 x 294 mm



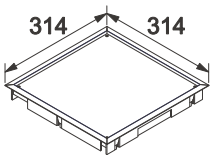
Designation	PU	Order no.
Hinged cover Q08 for 5mm flooring eg	4	**KDQ08057011**
Hinged cover Q08 for 5mm flooring ts	4	**KDQ08059005**
Hinged cover Q08 for 12mm flooring eg	4	**KDQ08127011**
Hinged cover Q08 for 12mm flooring ts	4	**KDQ08129005**



BDQ08057011

Blank cover BDQ08 for ultra-low installation depth

Properties:
- Outer dimension of flooring frame: 314 x 314 mm
- Installation dimensions: 294 x 294 mm

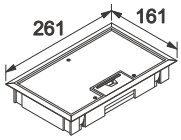


Designation	PU	Order no.
Blank cover Q08 for 5mm flooring thickness eg	1	**BDQ08057011**
Blank cover Q08 for 5mm flooring thickness ts	1	**BDQ08059005**
Blank cover Q08 for 12mm flooring thickness eg	1	**BDQ08127011**
Blank cover Q08 for 12mm flooring thickness ts	1	**BDQ08129005**

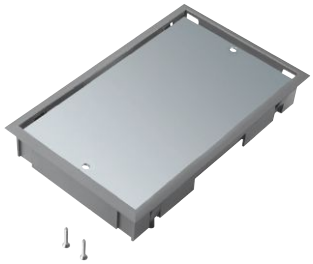
KDE04057011

Hinged cover KDE04 for ultra-low installation depth

Properties:
- For up to 4 installation devices in 2 device casings GBES2 or GBM5050
- Outer dimension of flooring frame: 161 x 261 mm
- Installation dimensions: 147 x 247 mm



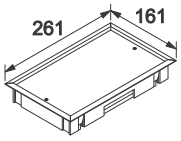
Designation	PU	Order no.
Hinged cover E04 for 5mm flooring thickness eg	9	**KDE04057011**
Hinged cover E04 for 5mm flooring thickness ts	9	**KDE04059005**
Hinged cover E04 for 8mm flooring thickness eg	9	**KDE04087011**
Hinged cover E04 for 8mm flooring thickness ts	9	**KDE04089005**



BDE04057011

Blank cover BDE04 for ultra-low installation depth

Properties:
- Outer dimension of flooring frame: 161 x 261 mm
- Installation dimensions: 147 x 247 mm



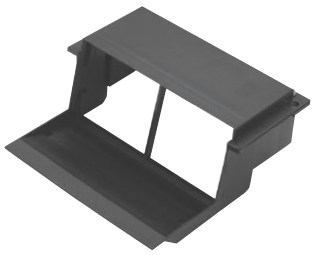
Designation	PU	Order no.
Blank cover E04 for 5mm flooring thickness eg	1	**BDE04057011**
Blank cover E04 for 5mm flooring thickness ts	1	**BDE04059005**
Blank cover E04 for 8mm flooring thickness eg	1	**BDE04087011**
Blank cover E04 for 8mm flooring thickness ts	1	**BDE04089005**

GBES29010

Device casing for hinged cover

Properties:
- Device casing for hinged cover KDQ08 and KDE04
- With 2 Schuko sockets, 2-pole, 16 A / 250 V
- Including 2 strain reliefs
- 50 mm installation depth from top edge of finished floor
- Delivery colours of power sockets: RAL 9010 pure white, RAL 2004 pure orange, RAL 3000 blazing red

Designation	PU	Order no.
Dev. cas. for KDQ08/E04 power socket, 2x rw	125	**GBES29010**
Dev. cas. for KDQ08/E04 power socket, 2x or	125	**GBES22004**
Dev. cas. for KDQ08/E04 power socket, 2x ro	125	**GBES23000**



GBM5050

Device casing for data systems technology for hinged cover

Properties:
- Device casing for hinged cover KDQ08 and KDE04
- For 2 installation devices Rastec 50 x 50 mm
- Installation of two Rastec 45 devices requires two adapter frames GBMAR5045
- Including 2 strain reliefs
- 60 mm installation depth from top edge of finished floor

Designation	PU	Order no.
Dev. cas. for KDQ08/E04 f 2 Inst.dev. R 50	125	**GBM5050**

GBMAR5045

Adapter frame

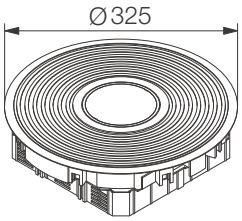
Properties:
- Adapter frame from Rastec 50 x 50 mm to Rastec 45 x 45 mm

Designation	PU	Order no.
Dev. cas. adapter frame Rastec R50 to R45	1250	**GBMAR5045**

VANR1200

Service unit for wet-cleaned floors for the installation tube cable outlet made of aluminium

Properties:
- Service unit with flooring frame made of aluminium for wet-cleaned floors
- Protection rating IP 66
- Full-aluminium cover with grooved structure
- For up to 12 installation devices in 3 device casings GTVR400, GBVR400 or GTVD300
- Device casings can be lowered in increments down to 18 mm
- Mounting kit for double floors upon request
- A tube cable outlet made of aluminium must be ordered as an option if required
- Outer dimension of flooring frame: Ø 325 mm
- Installation opening dimension: Ø 306 mm
- Installation height from 70 mm for GBVR400 and GTVD300
- Installation height from 80 mm for GTVR400
- Material: Aluminium
- Variant:
  R - Aluminium grooved structure
  R ts - aluminium grooved structure with deep black accents
  HB - with mounting kit for cavity floor
  BD - with mounting kit for junction boxes

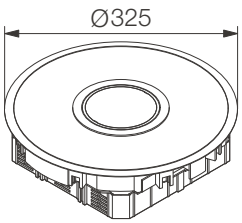


Designation	PU	Order no.
Serv.unit R12 w set HB wet Al-Tub R	3	**VANR1200**
Serv.unit R12 w set BD wet Al-Tub R	3	**VANR1201**
Serv.unit R12 w set HB wet Al-Tub R ts	1	**VANR12009005**
Serv.unit R12 w set BD wet Al-Tub R ts	1	**VANR12019005**

VANR12003

Service unit for wet-cleaned floors for the installation tube cable outlet made of aluminium

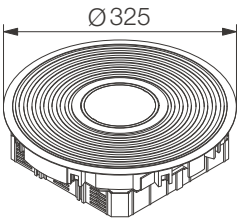
Properties:
- Service unit with flooring frame made of aluminium for wet-cleaned floors
- Protection rating IP 66
- Full-aluminium cover, also fits bonded floorings of 3 mm thickness (e. g. PVC, Linoleum or chequered aluminium panel)
- For up to 12 installation devices in 3 device casings GTVR400, GBVR400 or GTVD300
- Device casings can be lowered in increments down to 18 mm
- Mounting kit for double floors upon request
- A tube cable outlet made of aluminium must be ordered as an option if required
- Outer dimension of flooring frame: Ø 325 mm
- Installation opening dimension: Ø 306 mm
- Installation height from 70 mm for GBVR400 and GTVD300
- Installation height from 80 mm for GTVR400
- Material: Aluminium
- Variant:
  HB - with mounting kit for cavity floor
  BD - with mounting kit for junction boxes



Designation	PU	Order no.
Serv.unit R12 w set HB wet Al-Tub 3mm	1	**VANR12003**
Serv.unit R12 w wet BD wet Al-Tub 3mm	1	**VANR12013**

VANR1200TU

Service unit for wet-cleaned floors with tube cable outlet made of polyamide

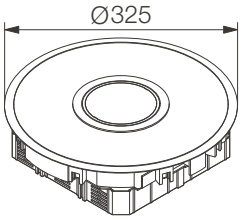


Properties:
- Service unit with flooring frame made of aluminium for wet-cleaned floors
- Protection rating IP 66
- Full-aluminium cover with grooved structure
- For up to 12 installation devices in 3 device casings GTVR400, GBVR400 or GTVD300
- Device casings can be lowered in increments down to 18 mm
- Mounting kit for double floors upon request
- A tube cable outlet made of polyamide is integrated in the cover and can be used as line outlet if reversed by 180°
- Outer dimension of flooring frame: Ø 325 mm
- Installation opening dimension: Ø 306 mm
- Installation height from 105 mm for GBVR400 and GTVD300
- Installation height from 115 mm for GTVR400
- Material: Aluminium
- Variant:
  R - Aluminium grooved structure
  R ts - aluminium grooved structure with deep black accents
  HB - with mounting kit for cavity floor
  BD - with mounting kit for junction boxes

Designation	PU	Order no.
Serv.unit R12 w set HB wet PA-Tub Al R	1	**VANR1200TU**
Serv.unit R12 w set BD wet PA-Tub Al R	1	**VANR1201TU**
Serv.unit R12 w set HB wet PA-T Al R ts	1	**VANR12009005TU**
Serv.unit R12 w set BD wet PA-T Al R ts	1	**VANR12019005TU**

VANR12003TU

Service unit for wet-cleaned floors with tube cable outlet made of polyamide



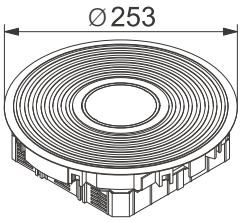
Properties:
- Service unit with flooring frame made of aluminium for wet-cleaned floors
- Full-aluminium cover, also fits bonded floorings of 3 mm thickness (e. g. PVC, Linoleum or chequered aluminium panel)
- For up to 12 installation devices in 3 device casings GTVR400, GBVR400 or GTVD300
- Device casings can be lowered in increments down to 18 mm
- Mounting kit for double floors upon request
- A tube cable outlet made of polyamide is integrated in the cover and can be used as line outlet if reversed by 180°
- Outer dimension of flooring frame: Ø 325 mm
- Installation dimensions: Ø 306 mm
- Installation height from 105 mm for GBVR400 and GTVD300
- Installation height from 115 mm for GTVR400
- Material: Aluminium
- Variant:
  HB - with mounting kit for cavity floor
  BD - with mounting kit for junction boxes

Designation	PU	Order no.
Serv.unit R12 w set HB wet PA-T Al 3mm	1	**VANR12003TU**
Serv.unit R12 w set BD wet PA-T Al 3mm	1	**VANR12013TU**

VANR2009005

Service unit for wet-cleaned floors for the installation of tube cable outlets made of aluminium

Properties:
- Service unit with flooring frame made of aluminium for wet-cleaned floors
- Full-aluminium cover with grooved structure
- For up to 6 installation devices in 3 device casings GTVR300, GBVR300 or GTVD200
- Device casings can be lowered in increments down to 18 mm
- Mounting kit for double floors upon request
- A tube cable outlet made of aluminium must be ordered as an option if required
- Outer dimension of flooring frame: Ø 253 mm
- Installation dimensions: Ø 242 mm
- Installation height from 70 mm for GBVR300 and GTVD200
- Installation height from 80 mm for GTVR300
- Material: Aluminium
- Variant:
  HB - with mounting kit for cavity floor
  BD - with mounting kit for junction boxes

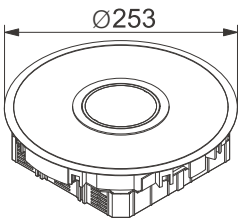


Designation	PU	Order no.
Serv.unit R2 w set HB wet Al-Tub R ts	1	**VANR2009005**
Serv.unit R2 w set BD wet Al-Tub R ts	1	**VANR2019005**

VANR2003

Service unit for wet-cleaned floors for the installation of tube cable outlets made of aluminium

Properties:
- Service unit with flooring frame made of aluminium for wet-cleaned floors
- Full-aluminium cover, also fits bonded floorings of 3 mm thickness (e. g. PVC, linoleum or chequered aluminium panel)
- For up to 6 installation devices in 3 device casings GTVR300, GBVR300 or GTVD200
- Device casings can be lowered in increments down to 18 mm
- Mounting kit for double floors upon request
- A tube cable outlet made of aluminium must be ordered as an option if required
- Outer dimension of flooring frame: Ø 253 mm
- Installation dimensions: Ø 242 mm
- Installation height from 70 mm for GBVR300 and GTVD200
- Installation height from 80 mm for GTVR300
- Material: Aluminium
- Variant:
  HB - with mounting kit for cavity floor
  BD - with mounting kit for junction boxes



Designation	PU	Order no.
Serv.unit R2 w set HB wet Al-Tub 3mm	1	**VANR2003**
Serv.unit R2 w set BD wet Al-Tub 3mm	1	**VANR2013**

Service units - Installation units

Identifier	Shape/number of installation devices	Flooring cutout /cover inlay - cardboard	Colour/material
V = service unit VE = Service unit made of stainless steel VD = Cover VEDE = service unit cover inlay VDDE = cover inlay	Y R06 = round 215 mm R10 = round 275 mm R12 = round 306 mm Q06 = square 200 x 200 mm Q12 = square 244 x 244 mm E09 = square 200 x 253 mm	Y 05 = 5 mm flooring cutout 12 = 12 mm flooring cutout P1 = cover inlay with 1 mm material thickness P2 = cover inlay with 2 mm material thickness	**Z** 7011 = RAL 7011, iron grey 9005 = RAL 9005, deep black E = stainless steel

Service units - installation units - height-adjustable stainless-steel cassettes

Identifier Material	Shape/number of installation devices	Variant	Cassette height
EK = stainless-steel cassette	X R06 = round 215 mm R12 = round 306 mm Q06 = square 200 x 200 mm Q12 = square 244 x 244 mm	Y 00BL = blank 00TM = tube mounting set 00LE = cable outlet, square	Z 1 = 23 mm inside - 28 mm outside 2 = 38 mm inside - 43 mm outside

Service units - installation units, height-adjustable stainless-steel cassettes - accessories - tube cable outlets

Identifier	Type	Material	Outer diameter
TU = tube	X LA = cable outlet SS000 = pin wrench	Y A = aluminium	Z 105 = 105 mm

Service units - installation units, height-adjustable stainless-steel cassettes - accessories - levelling set

Identifier	Type	Levelling range
EK = stainless-steel cassette	Y NS = levelling set	Z 075 = 100 - 150 mm 120 = 145 - 195 mm 165 = 190 - 240 mm

Service units - installation units - heavy-duty stainless-steel cassettes

Identifier Material	Shape/number of installation devices	Max. Load-bearing capacity	Variant
EKS = heavy-duty stainless-steel cassette	X R06 = round 215 mm R12 = round 306 mm Q405 = square 405 x 405 mm Q06 = square 200 x 200 mm Q12 = square 244 x 244 mm	Y 20 = 20 kN	Z BL = blank TM = tube mounting set

Service units - installation units - stainless-steel cassettes - heavy-duty - accessories - levelling set

Identifier	Type	Levelling range
EKS = heavy-duty stainless-steel cassette	Y NS = levelling set	Z 075 = 100 - 150 mm 120 = 145 - 195 mm 165 = 190 - 240 mm

Service units - installation units - accessories - snap-in ladder extension

Identifier	Shape/number of installation devices	Height of snap-in ladder extension
RLV = snap-in ladder extension	Y 12 = for Q12 and R12 R10 = for R10 E09 = for E09 06 = for Q06 and R06	Z 30 = approx. 30 mm

Service units - installation units, junction boxes, accessories

Identifier	Variant	Variant	Size	Material, upper part
UD = underfloor junction box	W A = junction box LA = cable outlet for junction boxes	X R = round Q = square 0000 = for all junction boxes	Y 125 = 125 mm	Z A = aluminium

Power socket

Identifier	Variant	Number of power socket boxes	Colour
E = Installation device	X SN = Schuko (standard D)	Y 1 = single	Z 9010 = RAL 9010, pure white

Service units - installation units - ZuHause complete packages

Identifier	Type	Colour/material
UDKP = underfloor junction box complete package UDBD = underfloor junction box	Y Q06 = square 200 x 200 mm	Z 7011 = RAL 7011, iron grey 9005 = RAL 9005, deep black E = stainless steel

Service units - installation units - power sockets

Identifier	Shape	Furnishing	Colour/material
BS = floor socket	X Q = square / hinged R = round / hinged F = wing opening / square	Y RJ45R45 = RJ45 data socket and Rastec 45 power socket	Z E = stainless-steel cast material B = bronze cast material

Service units - Installation units - Pedestal boxes

Identifier	Number of installation fields	Colour
GBZ = device casing for pedestal box	Y 2 = two fields, 1 x front, 1 x rear 4 = four fields, 2 x front, 2 x rear 8 = eight fields, 4 x front, 4 x rear	Z 7011 = RAL 7011, iron grey 9005 = RAL 9005, deep black

Service units - installation units - pedestal boxes - accessories

Identifier	Accessories	Type	Colour
GBZ = device casing for pedestal box	X W = installation wall KR00 = clamping ring	Y B = blank N = standard D R1 = 1 x Rastec R2 = 2 x Rastec C = 1 x CEE	Z 7011 = RAL 7011, iron grey 9005 = RAL 9005, deep black

Service units - installation units - hinged cover for ultra-low installation depth

Identifier	Shape/number of installation devices	Flooring cutout / cover inlay - cardboard	Colour
KD = hinged cover BD = blank cover	X Q08 = square for 8 installation devices E04 = rectangular for 4 installation devices	Y 05 = 5 mm flooring cutout 08 = 8 mm flooring cutout 12 = 12 mm flooring cutout	Z 7011 = RAL 7011, iron grey 9005 = RAL 9005, deep black

Service units - installation units - device casings

Identifier	Type	Number of power socket casings / adapter type	Colour
GB = device casings	X ES = installation device, Schuko power socket M = for 2 Mosaic installation devices MAR = adapter frame for Rastec 50 x 50 to 45 x 45 mm	Y 2 = two power socket casings 5050 = Rastec 50 x 50 mm 5045 = 50 x 50 to 45 x 45 mm	Z 9010 = RAL 9010, pure white 2004 = RAL 2004, pure orange 3000 = RAL 3000, blazing red

Service units - installation units - wet-cleaned floors

Identifier	Shape/number of installation devices	Mounting kit	Type/colour	Colour/material
VAN = service unit, aluminium (flooring frame), wet-cleaned floors	W R12 = round, for up to 12 installation devices R2 = round, for up to 6 installation devices	X 00 = with mounting kit for cavity floors 01 = with mounting kit for junction boxes	Y = aluminium, chequered 9005 = RAL 9005, deep black, grooves in contrasting colour 03 = for bonding in of 3-mm flooring	Z TU = integrated tube made of polyamide

Device casings - general description - function and application

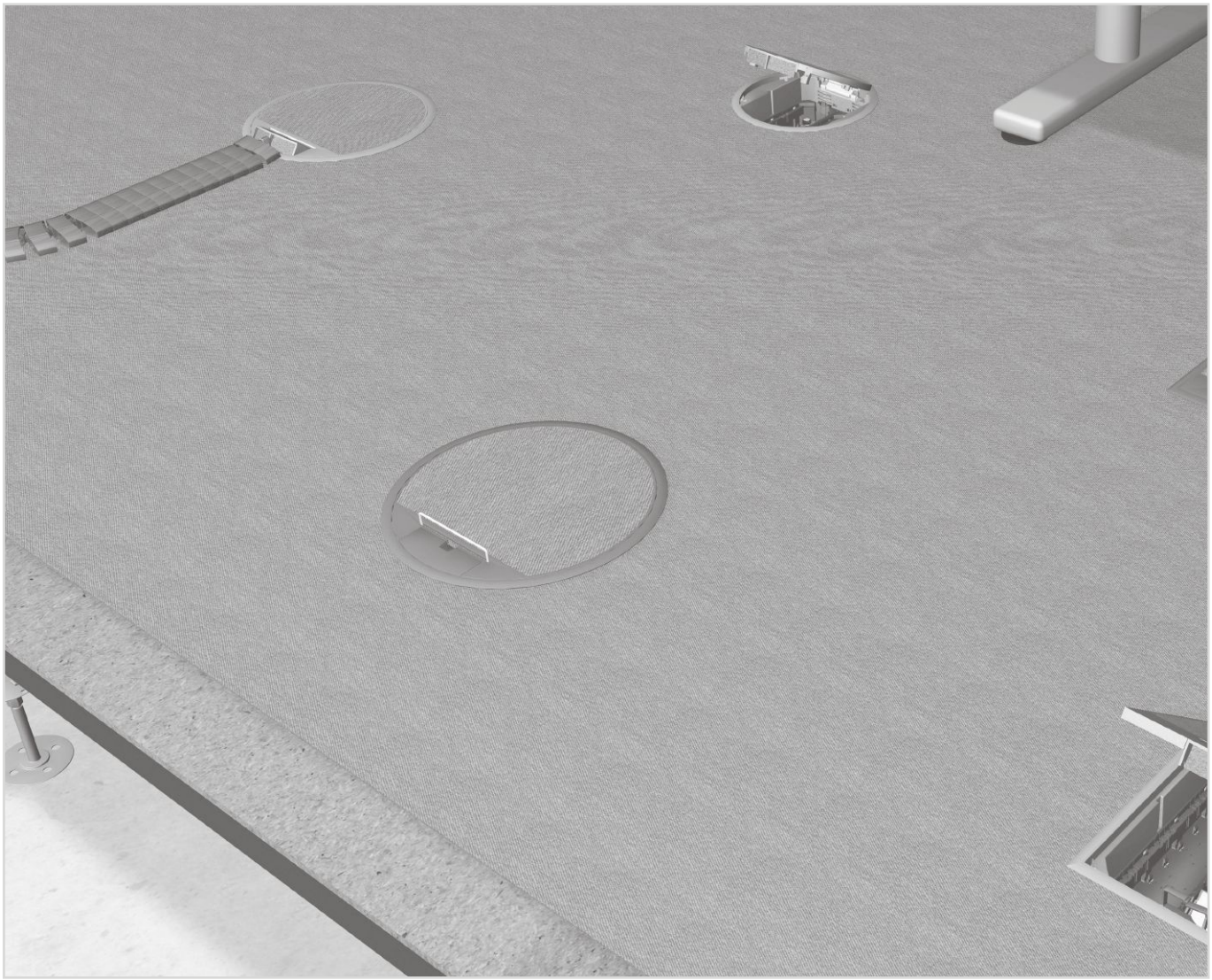
Mounting kit
One standardised mounting kit can be used for all underfloor trunking systems.

Captive system
The handle bar in the lid of the cover is captive and cannot be lost. The cable outlet cannot be pulled out, even if it is pulled hard.

12 mm
Flooring material of different thickness up to 12 mm can be bonded into the cover.

Snap-in system
Snap-in ladder extensions sealed around the entire circumference can be engaged into the service unit from below.

Flat chains
Flat chains can be safely connected to all service units using a flat-chain adapter.

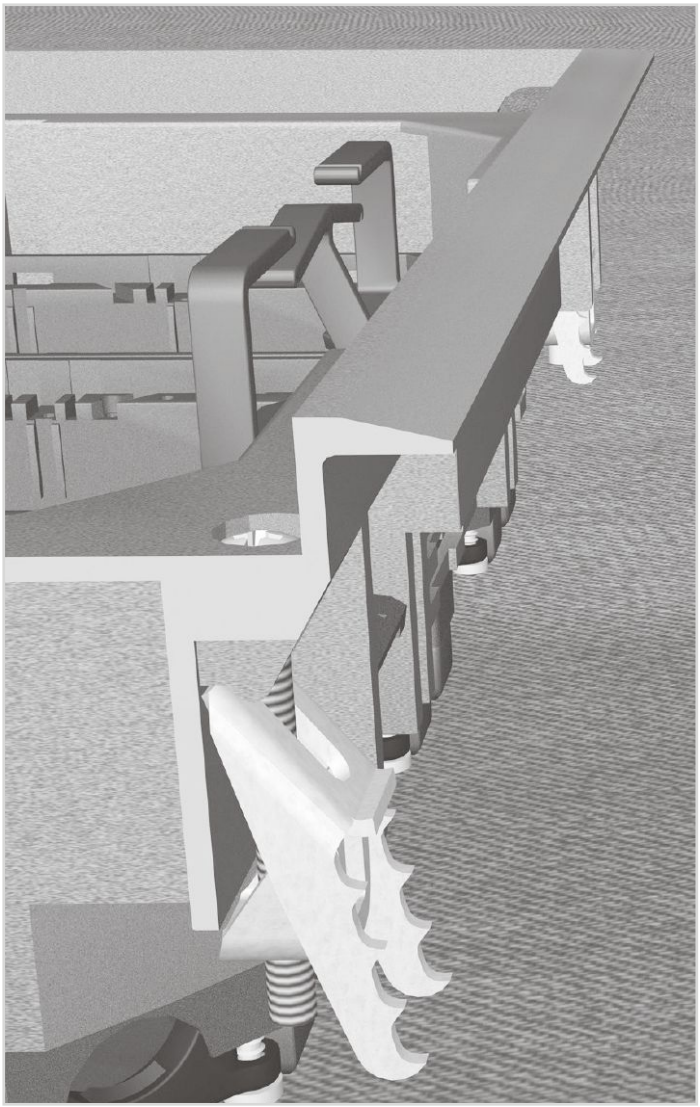


Installation in junction boxes - installation in double floors - installation in cavity floors

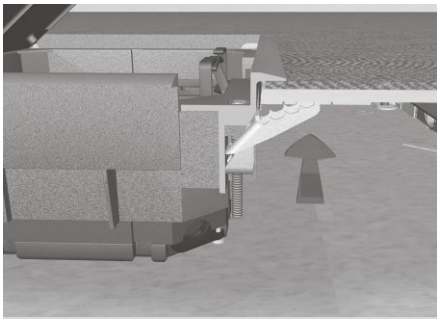
No matter which trunking system you wish to equip with service units, you can always use the same mounting kit. Specifying specific mounting kits when ordering is no longer necessary. With the exception of VANR12 for wet-cleaned floors, all service units are provided with this mounting kit.

Thanks to an innovative tilting mechanism, the force of the metal claws is always applied correctly. When using a junction box, the claw is pushed upward against the mounting panel. In double floors, the shark-like teeth of the claws are forced into the double floor from the sides and from below.

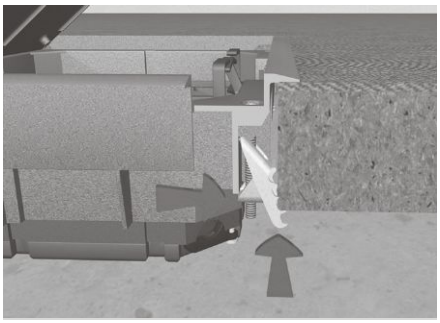
If the floor plate is larger than 50 mm or when installing the components into a cavity floor, the claws are pressed into the installation opening from the side.



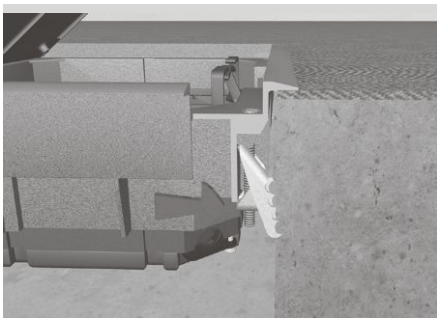
Installation in junction boxes



Installation in double floors



Installation in cavity floors



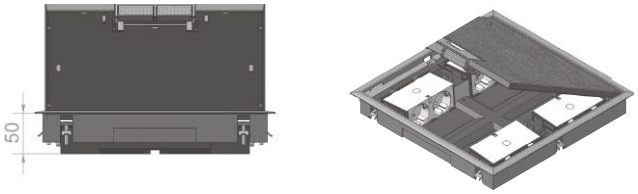
Installation depths

Is the screed height sufficient or is 50 mm a little on the tight side?

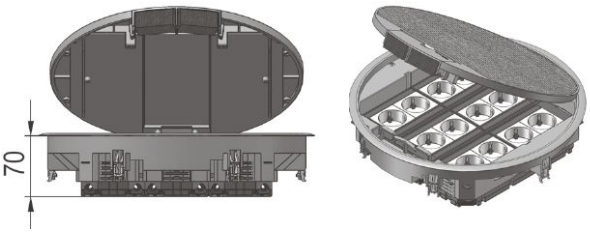
The service units from Hager offer the matching solution for any situation. If the screed height is sufficient, standard device casings may be used.

Screed heights exceeding 70 mm allow the installation of GBVR400 or GBVR300 for Schuko power sockets and GTVD300 or GTVD200 for data sockets. If the screed height exceeds 80 mm, GTVR400 and GTVR300 for Schuko power sockets can be installed. In screeds higher than 100 mm it is even possible to use snap-in ladder extensions to install the device casing even deeper. This provides more space for convenient socket options in the service unit.
However, if screed height is critical, device casings for "ultra-low installation depth" are available for installation in screeds starting from 50 mm. Here, the plugs are plugged into the hinged cover KDQ08 or KDE04 in horizontal direction.

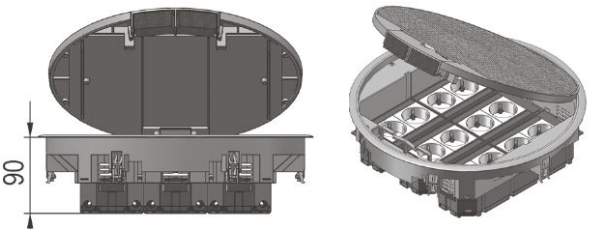
Hinged cover Q08 / E04 for ultra-low installation depth
Installation depth: from 50 mm



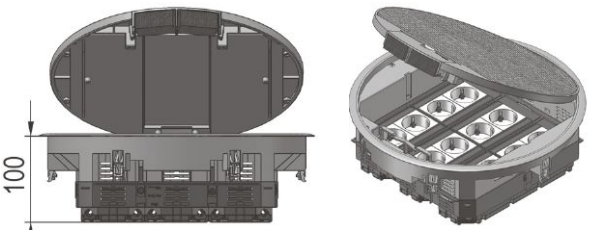
Device casing in top latching position
Installation depth: from 80/70 mm



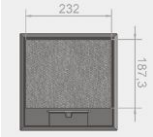
Device casing in bottom latching position
Installation depth: from 100/90 mm



Device casing with snap-in ladder extension
Installation depth: from 110/100 mm

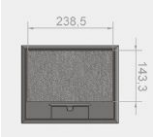


Service units, rectangular and square



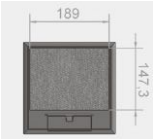
Service unit VQ12

Outer dimension [mm]	Installation dimension [mm]	Flooring cutout
263 x 263	244 x 244	5 mm 12 mm



Service unit VE09

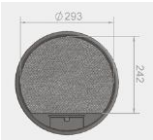
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout
219 x 272	200 x 253	5 mm 12 mm



Service unit VQ06

Outer dimension [mm]	Installation dimension [mm]	Flooring cutout
219 x 219	200 x 200	5 mm 12 mm

Service units, round



Service unit VR12

Outer dimension	Installation dimension	Flooring cutout
Ø 325 mm	Ø 306 mm	5 mm 12 mm

Service unit VR10

Outer dimension	Installation dimension	Flooring cutout
Ø 294 mm	Ø 275 mm	5 mm 12 mm

Service unit VR06

Outer dimension	Installation dimension	Flooring cutout
Ø 234 mm	Ø 215 mm	5 mm 12 mm

Service units made of aluminium

Service unit VANR12003TU

Outer dimension	Installation dimension	Flooring cutout
Ø 325 mm	Ø 306 mm	3 mm

Service unit VANR12003

Outer dimension	Installation dimension	Flooring cutout
Ø 325 mm	Ø 306 mm	3 mm

Service units, rectangular and square

Service unit VQ12

Number of power sockets [max. pcs.]	Number of device casings
12	3 x GTVR400 / GBVR400

Service unit VE09

Number of power sockets [max. pcs.]	Number of device casings
9	3 x GTVR300 / GBVR300

Service unit VQ06

Number of power sockets [max. pcs.]	Number of device casings
6	2 x GTVR300 / GBVR300

Service units, round

Service unit VR12

Number of power sockets [max. pcs.]	Number of device casings
12	3 x GTVR400 / GBVR400

Service unit VR10

Number of power sockets [max. pcs.]	Number of device casings
10	1 x GTVR400 + 2 x GTVR300 / 1 x GBVR400 + 2 x GBVR300

Service unit VR06

Number of power sockets [max. pcs.]	Number of device casings
6	2 x GTVR300 / GBVR300

Service units made of aluminium

Service unit VAN R12

Number of power sockets [max. pcs.]	Number of device casings
12	3 x GTVR400 / GBVR400

Service units for wet-cleaned floors

Grooved structure
The standard version with its aluminium grooves offers a uniform design without any irritating disruptions.

3-mm flooring
Service unit VANR12 fits a bonded flooring of 3 mm thickness (e.g. PVC, linoleum or chequered aluminium panel).

Aluminium
Cover and flooring frame are entirely made of aluminium.

Higher loads
The variants with aluminium tube lid and groove structure can support heavy loads and are traversable.

General instructions:

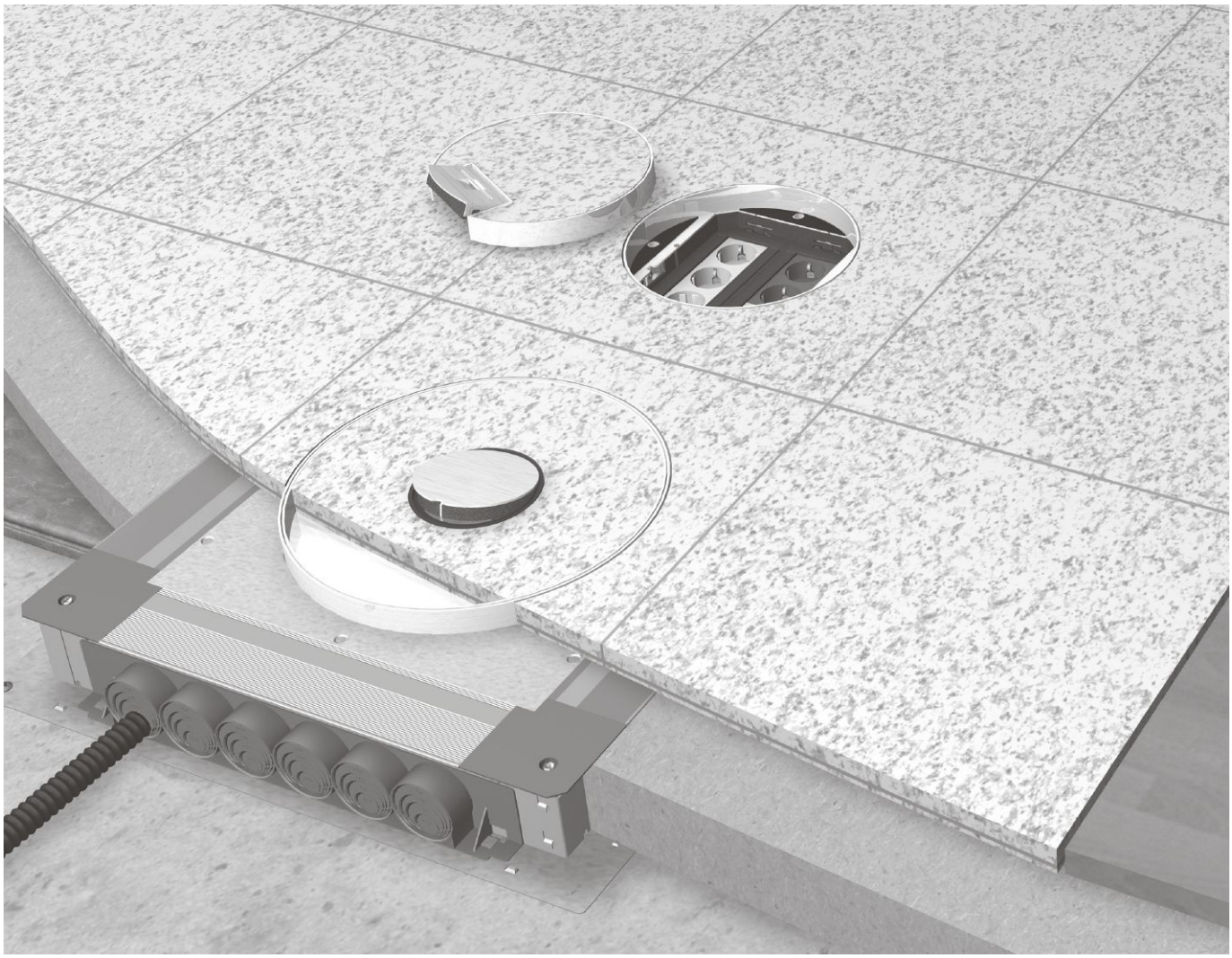
Wet-cleaning
Cassettes variants BL (blank) and TM (tube mounting set) are suitable for wet-cleaned floors.
Variant LE (with cable outlet) should not be wet-cleaned.

Stepless
The studs allow stepless height-adjustment.

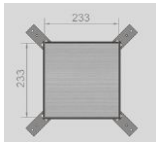
Snap-in ladder
Device casing can be installed at lesser heights using the snap-in ladder.

Snap-in ladder extension
A snap-in ladder extension can also be installed.

Solid
The units are characterised by compact designs.

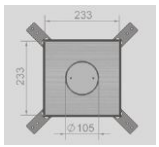


Stainless-steel cassettes, square



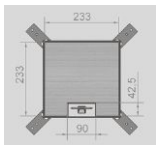
Stainless-steel cassette EKQ1200BL

Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
243 x 243	244 x 244	233 x 233 x 23



Stainless-steel cassette EKQ1200TM

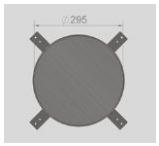
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
243 x 243	244 x 244	233 x 233 x 23



Stainless-steel cassette EKQ1200LE

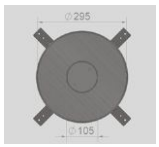
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
243 x 243	244 x 244	233 x 233 x 23

Stainless-steel cassettes, round



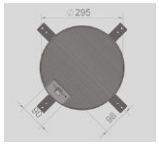
Stainless-steel cassette EKR1200BL

Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
Ø 305	Ø 306	Ø 295 x 23



Stainless-steel cassette EKR1200TM

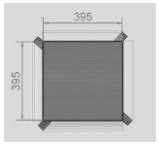
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
Ø 305	Ø 306	Ø 295 x 23



Stainless-steel cassette EKR1200LE

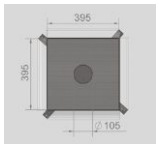
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
Ø 305	Ø 306	Ø 295 x 23

Stainless-steel cassette, heavy duty



Heavy-duty cassette EKSQ405BL

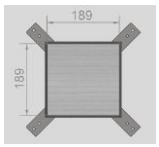
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
405 x 405	406 x 406	395 x 395 x 28



Heavy-duty cassette EKSQ405TM

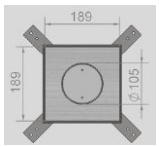
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
405 x 405	406 x 406	395 x 395 x 28

Stainless-steel cassettes, square



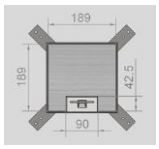
Stainless-steel cassette EKQ0600BL

Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
199 x 199	200 x 200	189 x 189 x 23



Stainless-steel cassette EKQ0600TM

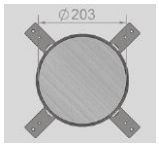
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
199 x 199	200 x 200	189 x 189 x 23



Stainless-steel cassette EKQ0600LE

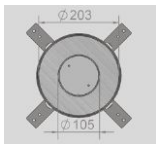
Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
199 x 199	200 x 200	189 x 189 x 23

Stainless-steel cassettes, round



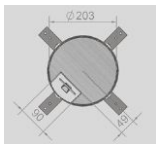
Stainless-steel cassette EKR0600BL

Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
Ø 214	Ø 215	Ø 203 x 23



Stainless-steel cassette EKR0600TM

Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
Ø 214	Ø 215	Ø 203 x 23



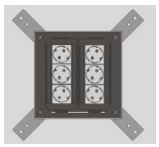
Stainless-steel cassette EKR0600LE

Outer dimension [mm]	Installation dimension [mm]	Flooring cutout [mm]
Ø 214	Ø 215	Ø 203 x 23

Stainless-steel cassettes, square

Stainless-steel cassette EKQ1200

Number of power sockets [max. pcs.]	Number of device casings
12	3 x GTVR400 / GBVR400



Stainless-steel cassette EKQ0600

Number of power sockets [max. pcs.]	Number of device casings
6	2 x GTVR300 / GBVR300

Stainless-steel cassettes, round

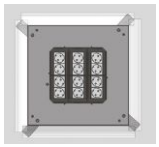
Stainless-steel cassette EKR1200

Number of power sockets [max. pcs.]	Number of device casings
12	3 x GTVR400 / GBVR400

Stainless-steel cassette EKR0600

Number of power sockets [max. pcs.]	Number of device casings
6	2 x GTVR300 / GBVR300

Stainless-steel cassette, heavy duty



Heavy-duty cassette EKSQ05

Number of power sockets [max. pcs.]	Number of device casings
12	3 x GTVR400 / GBVR400

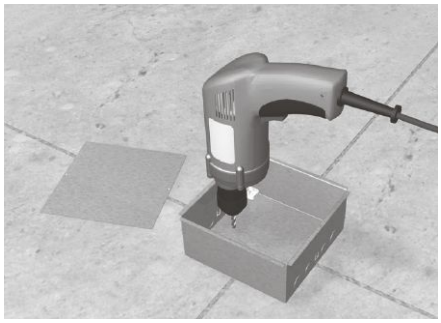
General instructions:

Compatibility
Junction box UDS-ZuHause can be fitted with service unit VQ06 or height-adjustable stainless-steel cassette EKQ06.

Earthing
System components must be included in the earthing measures in accordance with DIN VDE 0100.

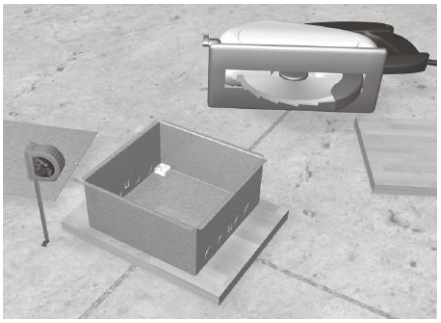
Observe our general information and the information concerning other related trades (screed layers, floor fitters).

Install sheet-metal casing



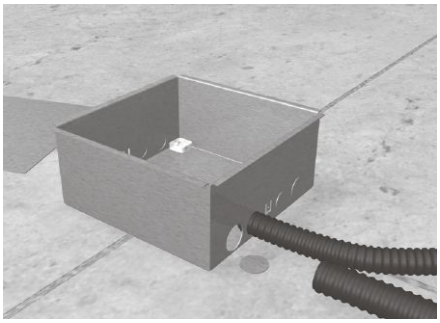
Fasten the casing to the slab with two screws.

Underlay sheet-metal casing



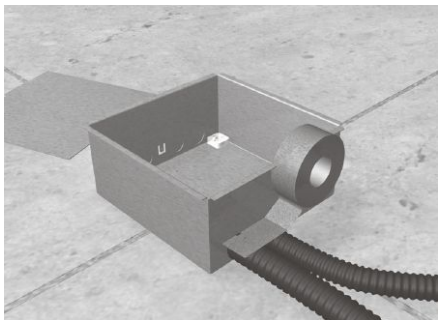
If required, underlay the casing to achieve the required height, depending on the planned screed height.

Connect the installation pipes



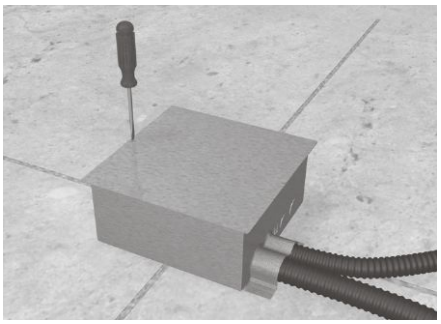
Knock out the blankings for installation pipes and insert the installation pipe. Blankings fit pipes M25 or M20.

Seal the sheet-metal casing



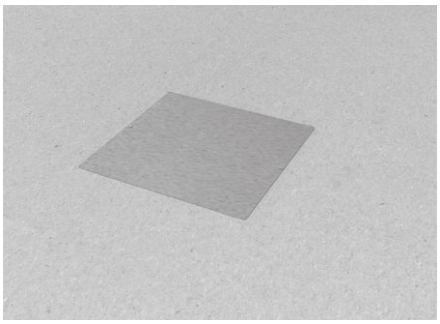
Seal the sheet-metal casing using adhesive tape to prevent screed ingress.

Install the protective cover



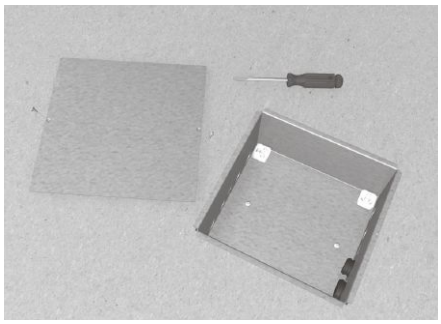
Secure the protective cover to the casing using two screws. The cover serves as protection during screed-laying.

Lay the screed



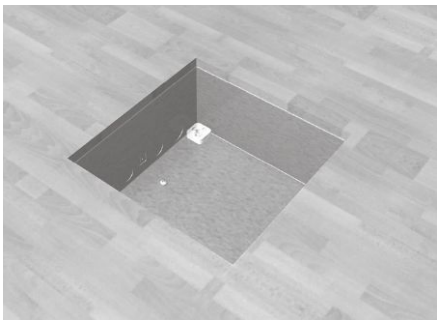
Lay the screed flush with the upper edge of the sheet-metal casing.

Remove the protective cover



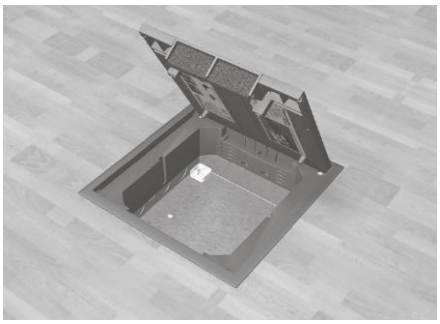
Remove the protective cover after the screed has hardened completely.

Install the flooring



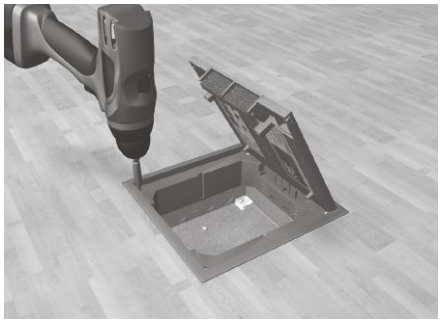
Install the flooring, leaving an installation opening of 200 x 200 mm.

Insert service unit VQ06



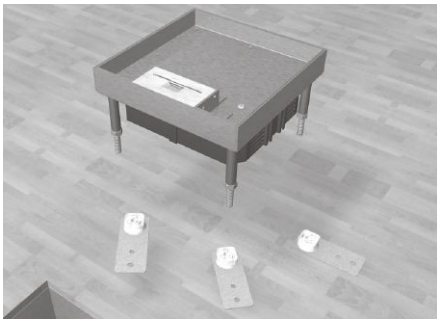
Place service unit VQ06 into the installation opening.

Fasten service unit VQ06



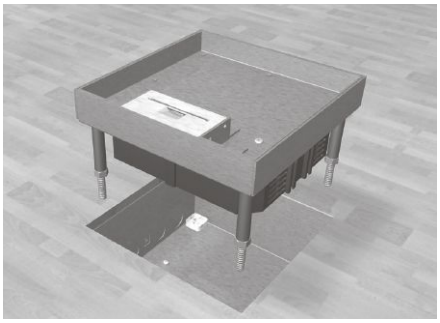
Using a cordless screwdriver, fasten the four mounting kits of the service unit hand-tight.

Prepare cassette EKQ06



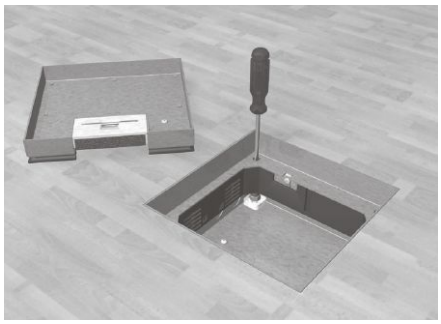
Remove the retaining tabs and soundproofing mounts from the set screws.

Insert cassette EKQ06



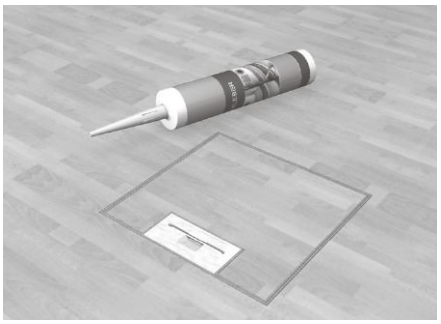
Place the cassette into the installation opening. Press the set screws into the soundproofing mounts of the UDS-ZuHause unit.

Align cassette EKQ06



Using the four set screws, adjust the cassette to the required height. The cassette must be flush with the top edge of the finished flooring.

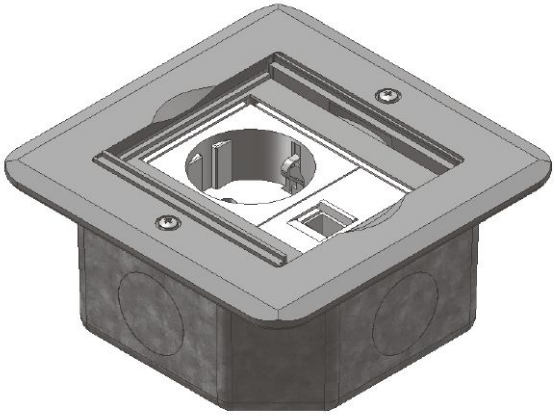
Bond the flooring into place

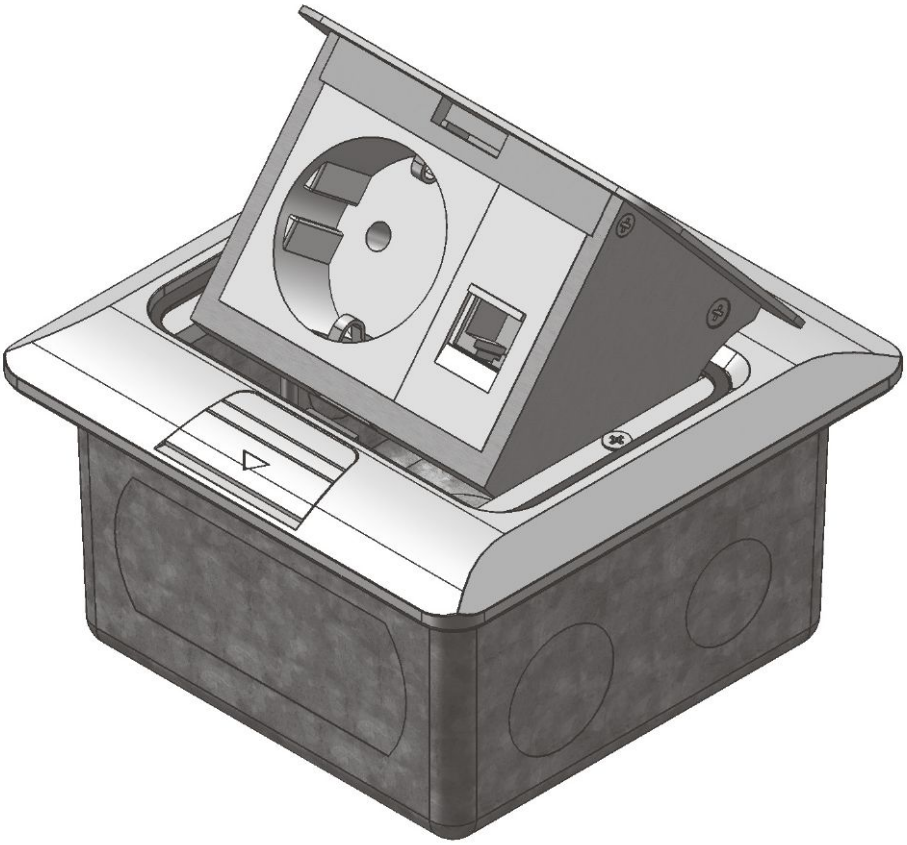


Cut a piece of flooring to size and bond in into the cassette cover.

General instructions:

Massive, high-quality floor sockets made of brushed stainless steel or bronze casting. Protection rating IP20, traversable, discrete and elegant. Suitable for floors, walls or furniture. Fitted with a Rastec 45® power socket and a RJ45 data module. Two variants are available. With the retractable variant, power socket and data module can be fully retracted to create a flush surface. With the hinged variant, two covers can be closed like a cabinet door.

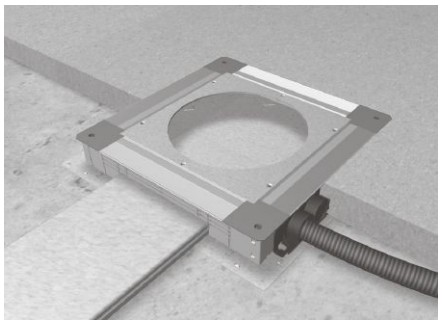




General instructions:

The following installation instructions refer to the installation of VR12 service units and apply to all other service units alike.

Installation in universal junction box



Replace the screed protection cover by fitting frame UDM3306R12.

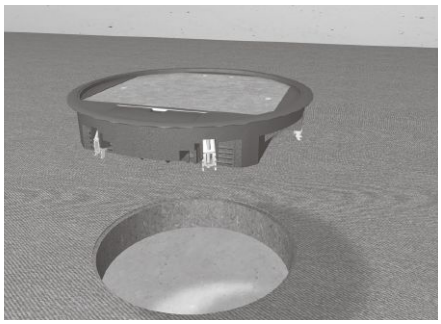
Installation in cavity floor or double floor

Create an installation opening with a diameter of 306 mm (tolerance + 1 mm) in the double floor or cavity floor.

Lay the flooring

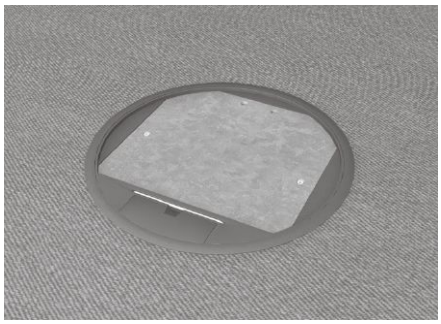
Hard flooring such as wood, PVC or tiles should be worked around the service unit leaving space for an expansion joint.

Check the mounting kit



Fit the service unit into the installation opening.

Align the service unit

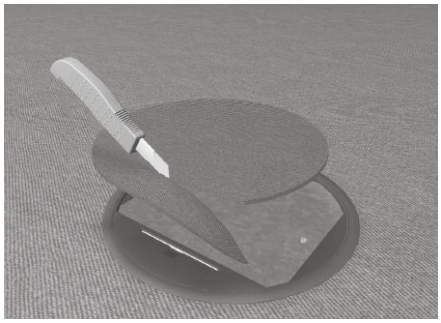


Align the service unit to suit the premises. Consider the opening direction of the cover.

Attach the service unit

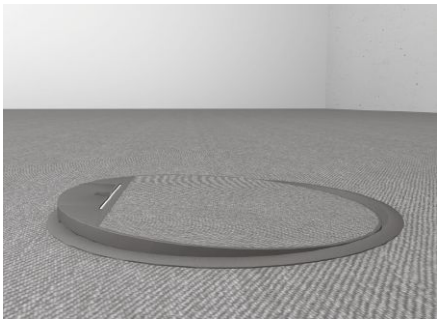
Fasten the internal screws of the mounting kit crosswise (Allen head H2).

Bond the flooring into place



Cut the flooring to size and bond it into the cover of the service unit.

Remove the cover (optional)

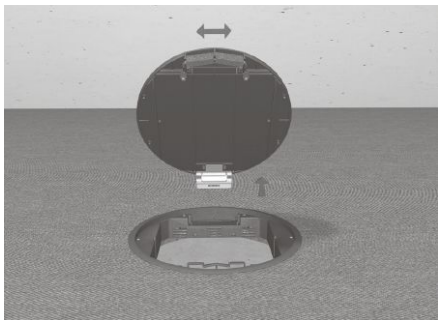


The cover can be separated from the frame to facilitate installation. Open the cover and pull it away from the hinge. This provides access to the screws of the mounting kit and a slot at the hinge.

Release the snap lock

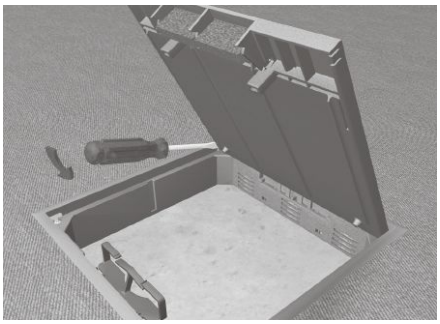
Insert a flat-bladed screwdriver between hinge and latching tab. Push down the screwdriver while pivoting it toward the cover to release the latching tab.

Pull off the cover



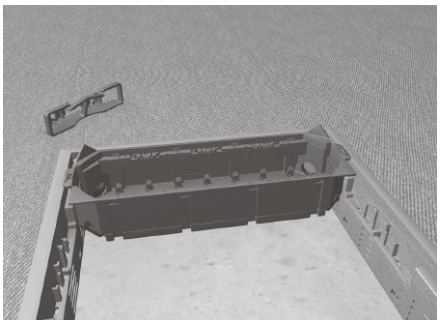
Pull off the cover. Work the hinge piece out of its seat by wiggling it left and right.

Remove the square cover



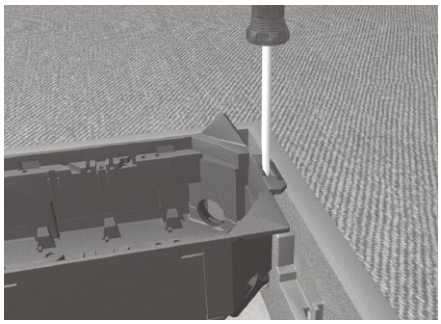
In case of square covers, insert and twist a screwdriver to release the latching tab.

Insert the device casing



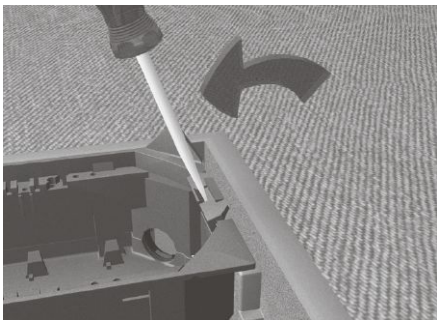
Locate the device casing with one side into the snap-in ladder extension. The latching tabs must audibly engage in the ladder extension on both sides.

Insert a screw driver



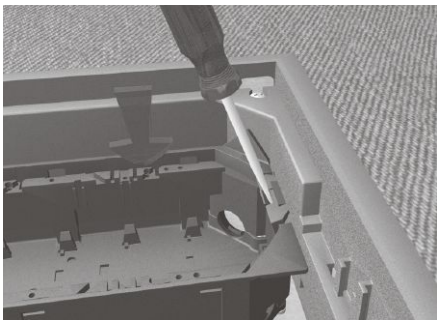
Insert the screwdriver into the opening of the tab. This ensures an optimal guidance of the device casing tab.

Bend the tab inward



Bend the device casing tab inward using a screwdriver.

Position the device casing



Adjust the device casing to the required height using the screwdriver.

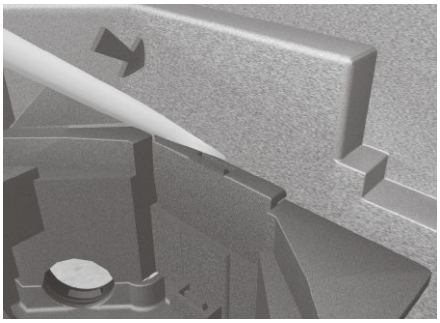
Snap-in the device casing

Snap in the device casing tab at the required height using a screwdriver. The tab must engage audibly.

Snap in the opposite side

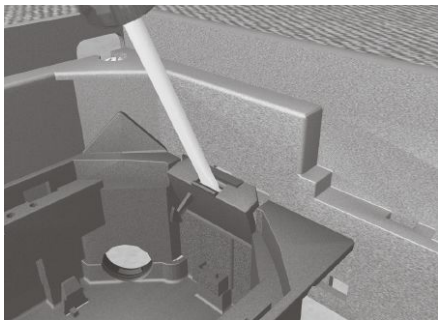
Following the principle of the preceding steps, latch the device casing into the service unit on the opposite side.

Release the device casing



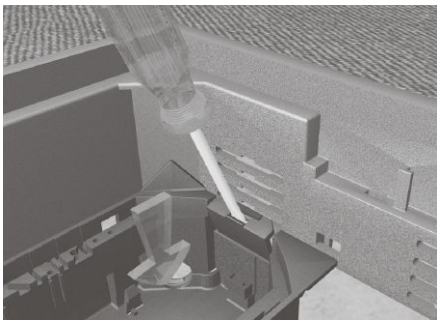
Insert the screwdriver into the perforation at an angle and turn it upward to release the tab of the device casing from the service unit.

Pull out the device casing tab



Bend the tab of the device case inward using a screwdriver and pull it from the perforation of the service unit.

Move the device casing to a lower position



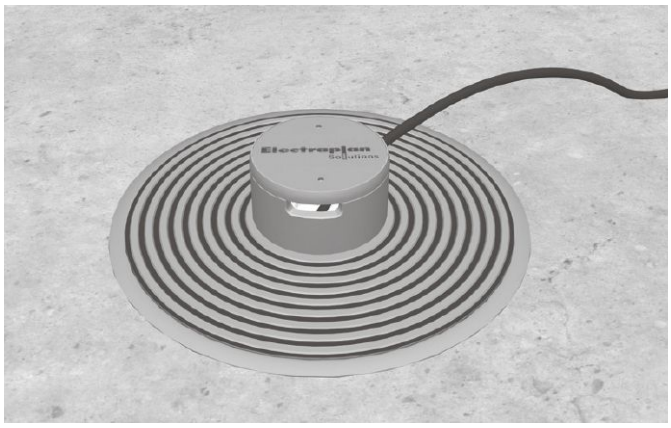
Adjust the device casing to the required height using the screwdriver.

Snap in the device casing

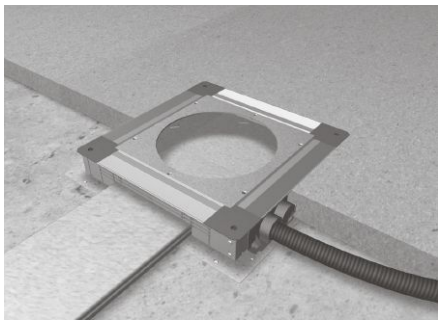
Snap in the device casing tab at the required height using a screwdriver. The tab must engage audibly.

General instructions:

Cleaning
Carefully clean all sealing surfaces of the cover each time you close it.



Installation in universal junction box

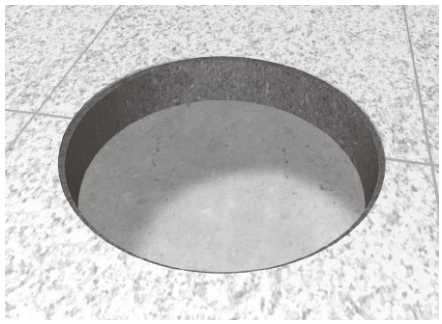


Replace the screed protection cover by fitting frame UDM3306R12.

Installation in cavity floor or double floor

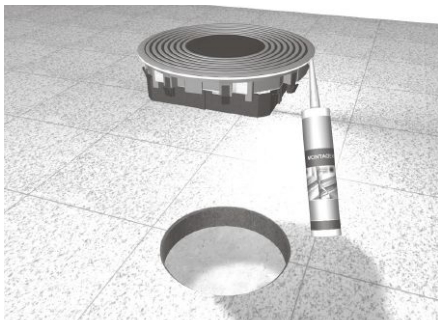
Create an installation opening with a diameter of 306 mm (tolerance + 1 mm) in the double floor or cavity floor.

Lay the flooring



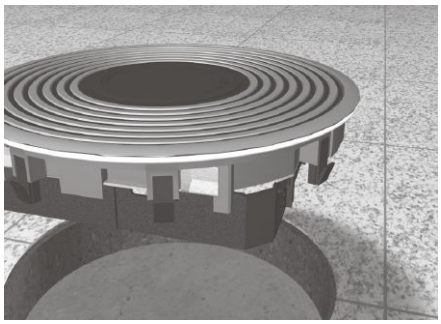
Hard flooring such as wood, PVC or tiles should be worked around the service unit leaving space for an expansion joint.

Seal the service unit



Apply suitable sealant to the lower surface of the flooring frame.

Check the mounting kit



Check the distance between the mounting kit and the height of the floor construction and push the service unit into the installation opening. If it is difficult to push in, turn out the screws of the mounting kit until the mounting kit engages in the floor panel from below.

Align the service unit

Align the service unit to suit the premises. Consider the opening direction of the cover.

Attach the service unit

Slightly turn in the inner screws of the eight mounting kits.

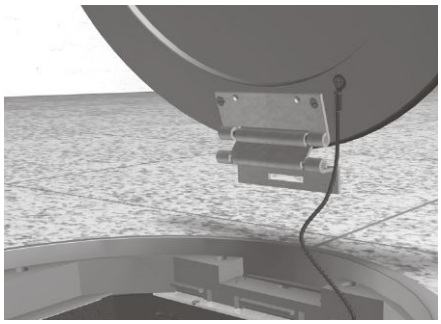
Remove the cover (optional)

The cover can be separated from the frame to facilitate installation. Open the cover and pull it away from the hinge. This provides access to the screws of the mounting kit and a slot at the hinge.

Release the snap lock

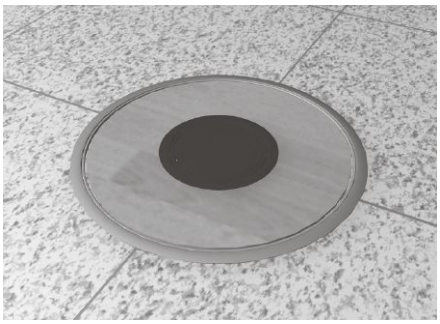
Insert the screwdriver into the slot in the hinge piece until resistance is noticeable. Push down the screwdriver, pivoting it toward the cover. The motion combined with a slight jerk will release the latching mechanism.

Pull off the cover



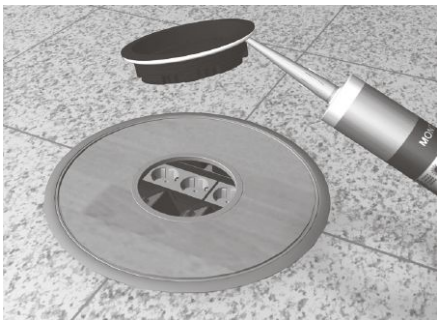
Pull off the cover. Work the hinge piece out of its seat by wiggling it left and right.

Service unit with flooring



A service unit suitable for bonding in 3-mm flooring is available as an option. This requires accurate trimming of the flooring.
Outer Ø = 293 mm
Inner Ø for aluminium tube = 107,5 mm
Inner Ø for polyamide tube = 129.5 mm

Bond in the polyamide tube



When installing service unit VANR1200TU, suitable sealant must be applied to the lower surface of the flooring frame of the polyamide tube after bonding in the flooring.

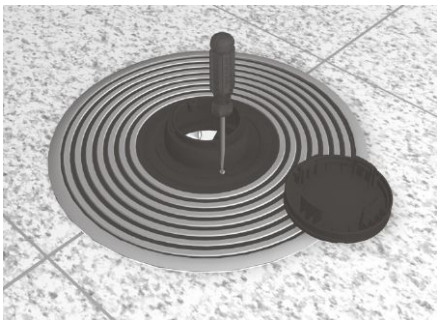
Prise open the polyamide tube lid

When installing service unit VAN with polyamide tube, insert a screwdriver into the two perforations and lever it upward to push up the lid.

Turn the polyamide tube centre piece

Remove the centre piece of the tube cable outlet by hand, reverse it by 180° and push it back on. The cover of the service unit can now be opened by reaching into the opening and pulling it upward.

Attach the polyamide tube centre piece



Use the two screws clipped in the tube lid to secure the tube centre piece to the cover of the service unit. The tube is now secured against lateral force and will remain in position.

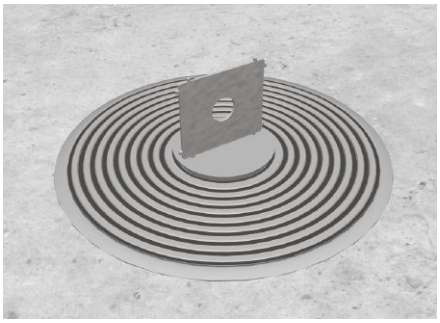
Thread in the cables

Open the cover and feed the cables through the opening of the polyamide tube into a power socket. Carefully clean all sealing surfaces before closing the cover.

Close the polyamide tube

Carefully close the cover of the service unit. Snap the bayonet fitting of the tube lid into the centre piece and close it. The service unit is now protected against splash water (according DIN VDE 0634) of up to 30 mm

Screw on the aluminium tube lid

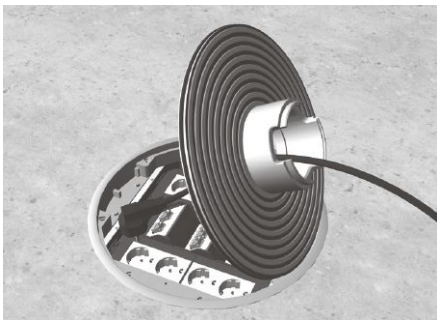


When installing a VAN service unit with aluminium tube, unscrew the aluminium tube lid using pin wrench TUSS000 and remove it. The cover of the service unit can now be opened by reaching into the opening and pulling it upward.

Screw in the aluminium tube

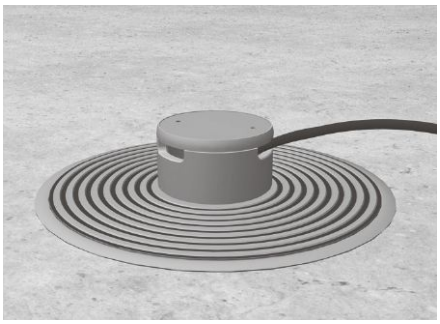
Screw aluminium tube TULAA105 into the thread of the service unit cover.

Thread in the cables



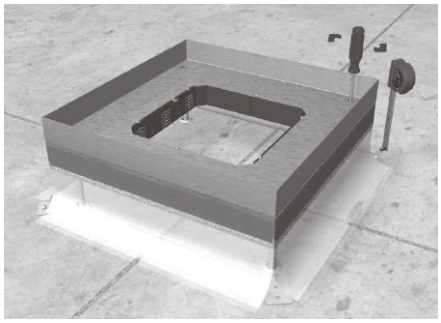
Open the cover and feed the cables through the opening of the aluminium tube into a power socket. Carefully clean all sealing surfaces before closing the cover.

Close the aluminium tube



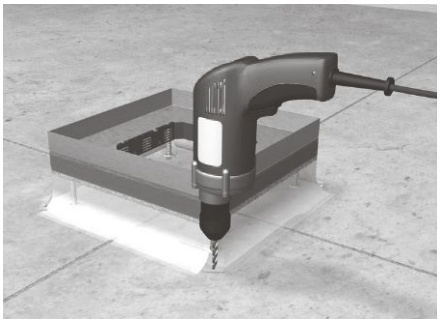
Carefully close the cover of the service unit. Screw the tube closing ring into the tube lid at the cable outlet. The service unit is now protected against splash water (according DIN VDE 0634) of up to 30 mm.

Level the cassette frame



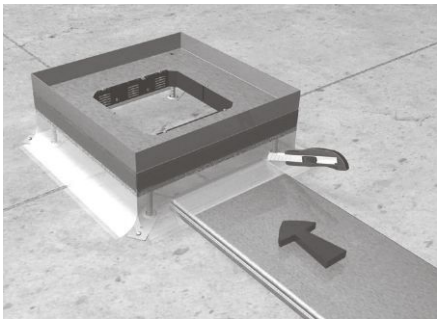
Position the angled frame with the cassette frame screwed to it on the slab and use the set screws to adjust the height.

Attach the cassette frame



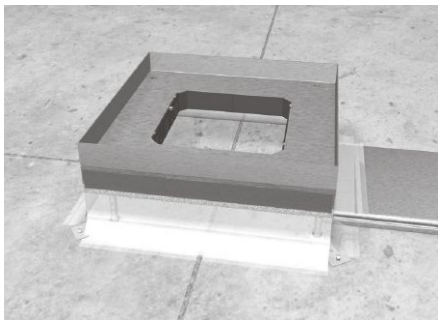
Secure the retaining tabs to the slab.

Feed in the trunking



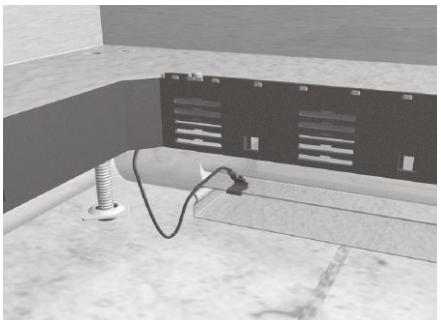
Cut in the film formwork to fit height and width of the trunking. Lift the film flap and push the trunking approx. 40 mm below the cassette frame.

Seal the cassette frame



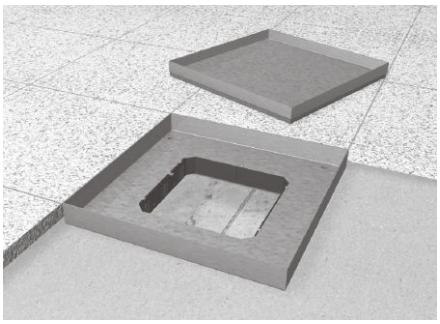
Seal all openings and joints.

Earthing measures at cassette frame



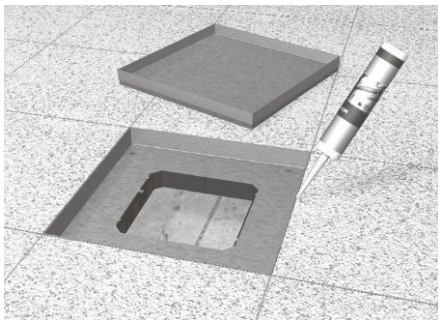
The earthing cable must be connected to the earthing measures provided on site.

Lay screed and flooring



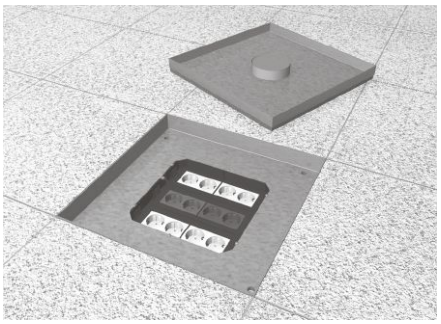
Work screed or flooring around the cassette frame leaving space for an expansion joint, ensure absolute cleanliness in the cassette area.

Seal the expansion joint



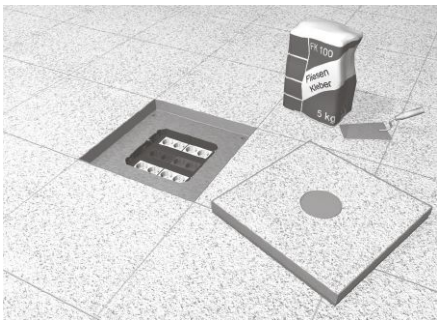
Seal the expansion joint around the cassette frame using an elastic sealant.

Fit the cassette



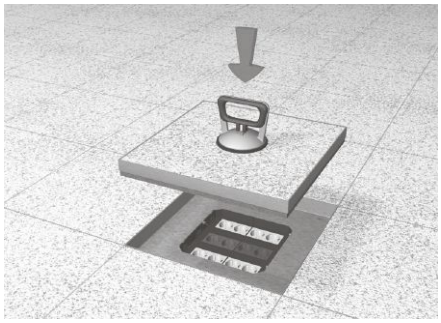
Install the device casings with their power sockets and data modules into the latching rail.

Bond the flooring into the cassette cover



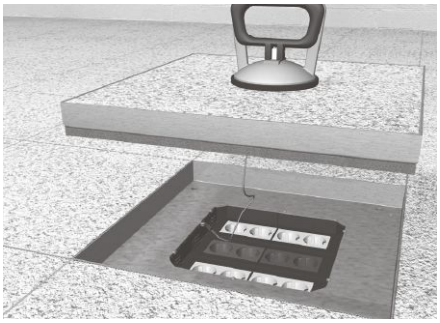
Cover cassette cover with flooring. Ensure that the adhesive is evenly spread and that the flooring is flat on the cassette cover, as otherwise the flooring may break.

Install the cassette cover



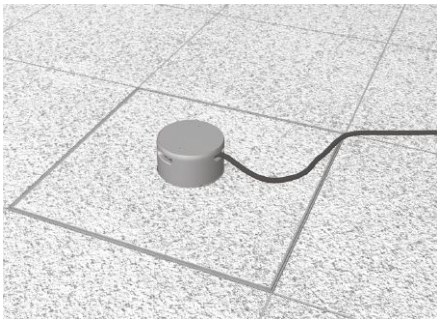
Once screed and flooring adhesive have sufficiently hardened, install the cassette cover into the cassette frame using a suction lifter (e.g. BKZSH30).

Earthing measures at cassette cover



Use the earthing cable to connect the cassette cover to the cassette frame.

Cassette cover with tube



If lines are to be routed out of the cassette, then an aluminium tube TULAA105 can be screwed onto the cassette using a tube mounting kit.

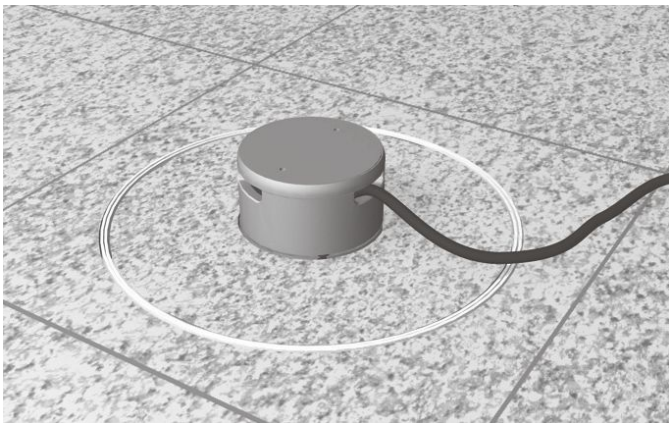
Suitable for high loads

The heavy-duty cassette is designed for loads up to 20,000 Newton.

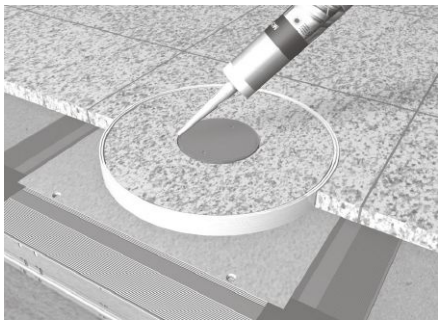
General instructions:

We recommend to protect the visible areas against damage during construction work.

The installation instructions apply to all installation units with tube cable outlets made of aluminium. This includes for example stainless-steel cassettes, heavy-duty cassettes but also service unit VANR12.

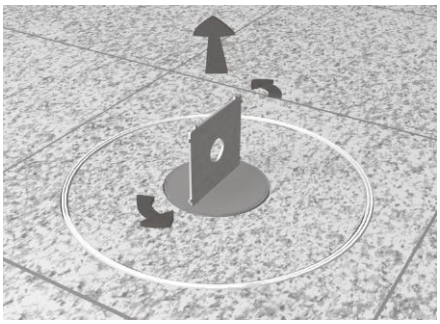


Seal against moisture



The flooring must be flush with the top edge of the cassette cover or outer frame. The joint between flooring and tube mounting set must be sealed against moisture by the customer.

Open the tube lid

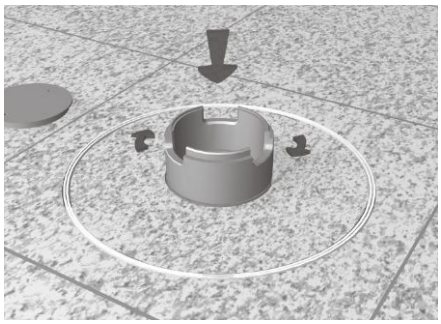


Open the lid of the tube mounting set using pin wrench TUSS000 (to be ordered separately).

Check the rubber seal

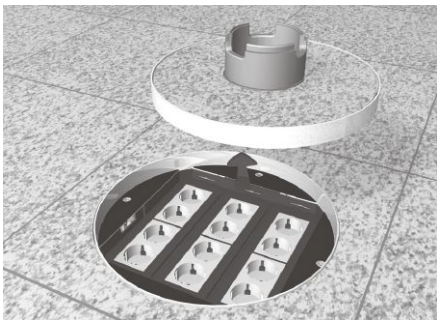
After unscrewing the tube lid, ensure that the rubber seal is correctly located in the tube mounting set and does not stick to the tube lid. The rubber seal should be lubricated with petroleum jelly ('Vaseline') in regular intervals.

Screw in the tube cable outlet



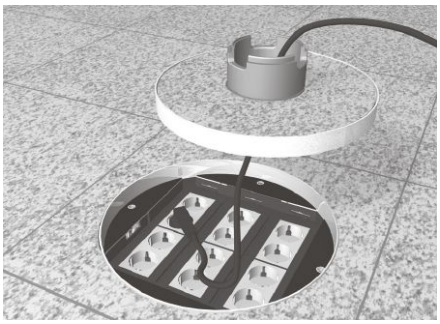
Screw the tube cable outlet onto the tube mounting set by hand.

Remove the cassette cover



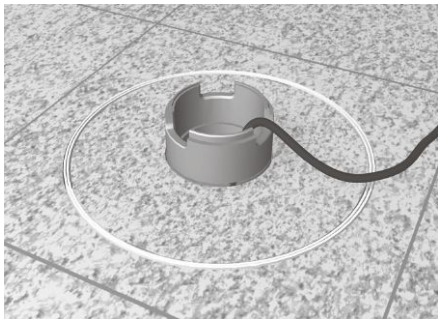
Remove the cassette cover upward.

Thread in the connection cables



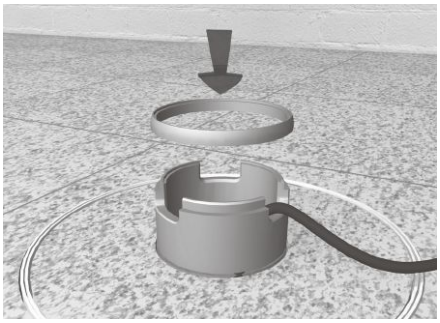
Thread the connection cable from above through the tube cable outlet and plug it into the installation device.

Close the cassette cover



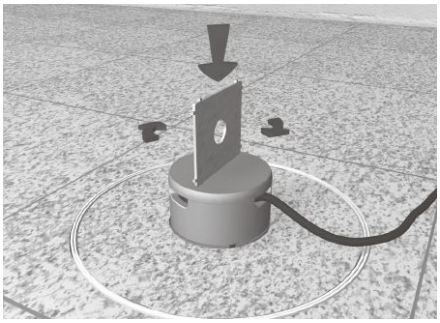
Reinstall the cassette cover and place the connecting cable into one of the three cut-outs of the tube cable outlet.

Position the tube closing ring



Position the tube closing ring from above onto the tube cable outlet.

Close the tube cable outlet



Screw the tube lid into the tube cable outlet using pin wrench TUSS000 (to be ordered separately).

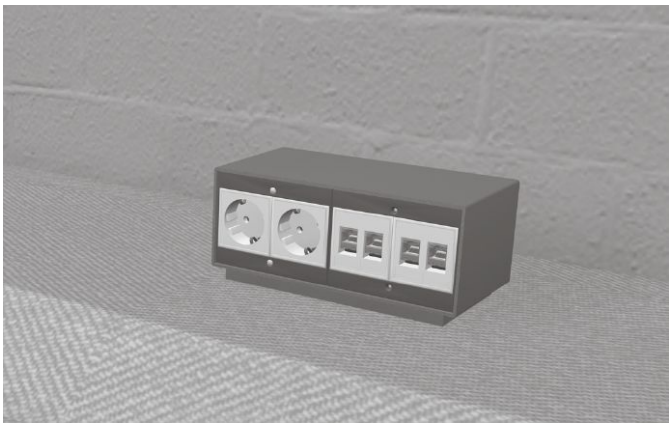
Suitable for high loads

The robust tube cable outlet is made of aluminium and is designed for high loads. The loads specified for cassette and junction box must be observed.

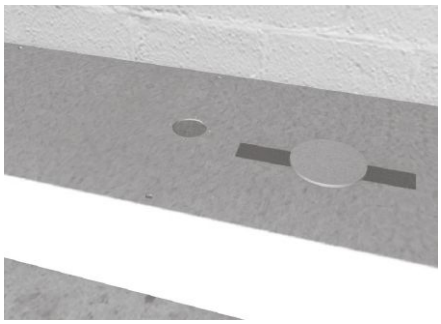
General instructions:

Projecting
Pedestal boxes made of polyamide for installation on top of the floor.

Furnishing
The largest variant accommodates two voltages, 8 installation fields and up to sixteen installation devices.

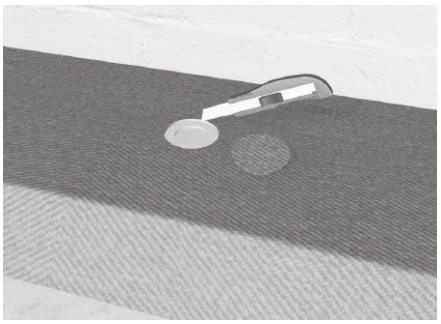


Remove the protective cover



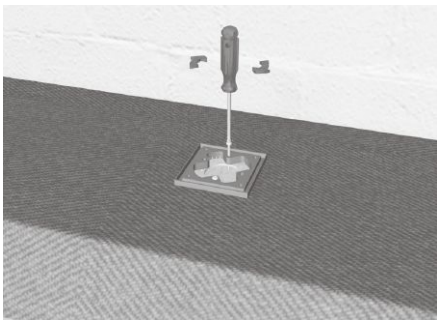
The installation opening covers (AKMGBZ, to be ordered separately) of the corresponding trunking systems are fitted with protective covers at the factory. These must be removed directly before laying the flooring.

Cut out the installation opening



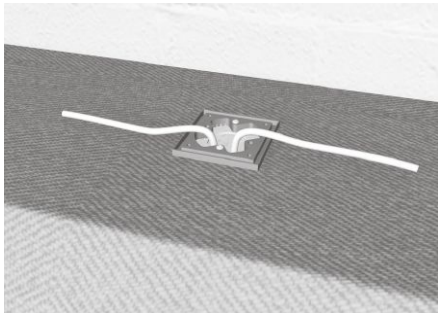
Once the flooring is laid, cut out the installation openings.

Install the base



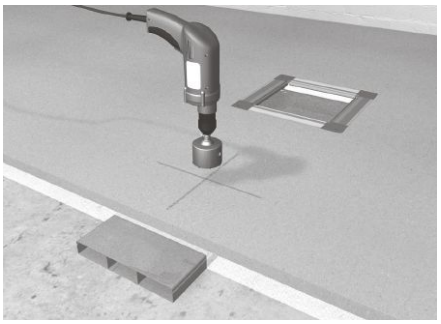
The base of the pedestal box is fixed to the installation opening using the two bolts M4 x 40 mm provided.

Thread in the cables



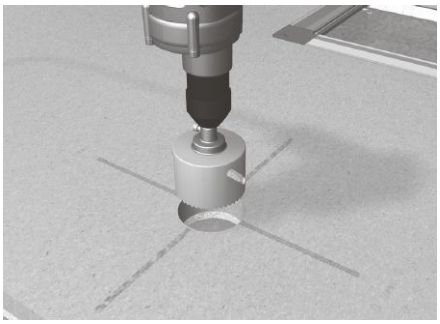
Route the cables through the installation opening and the base.

Drill the screed



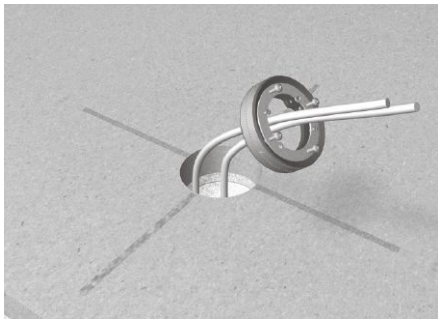
Cut a hole into the screed down to the underlying trunking using a carbide hole saw.

Cut a hole into the trunking



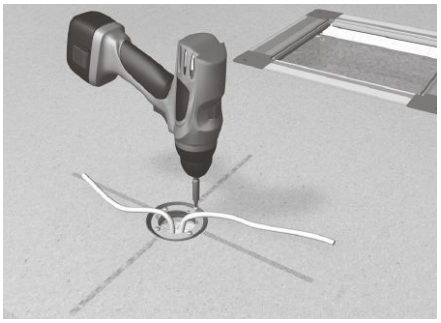
Cut a hole into the trunking using a hole saw.

Thread the cables through the clamping



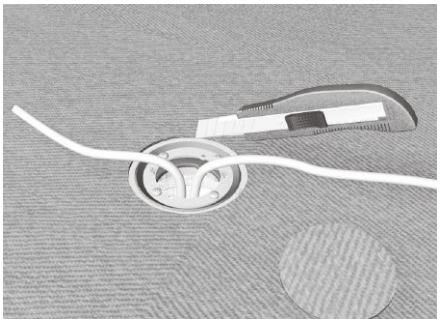
Thread the cables out of the underfloor trunking and through the drilled outlet / clamping ring GBZKR00 (to be ordered separately) so that the screw heads point upward.

Clamp the clamping ring



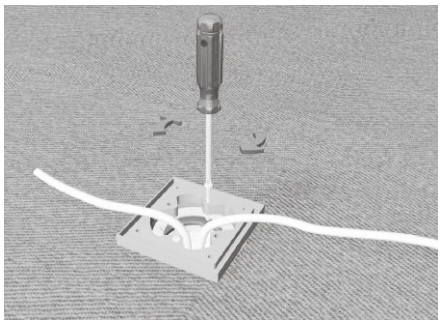
Install the clamping ring into the drilled hole and tighten the screws to clamp it.

Cut out the holes



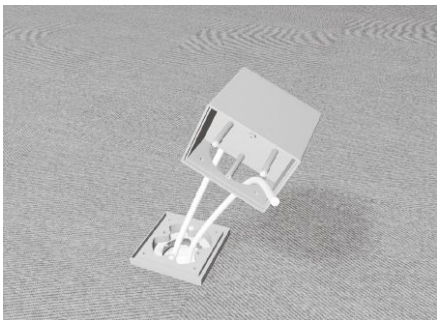
After laying the flooring, cut out the drill holes using a cutter.

Install the base



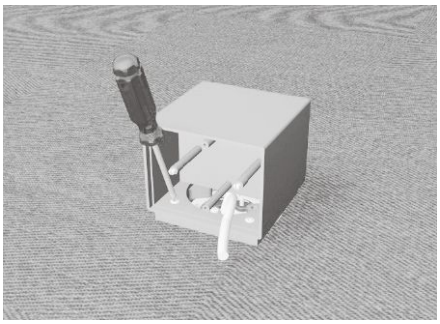
Secure the base of the pedestal box in the clamping ring using two bolts M4 x 40 mm.

Thread in the cables



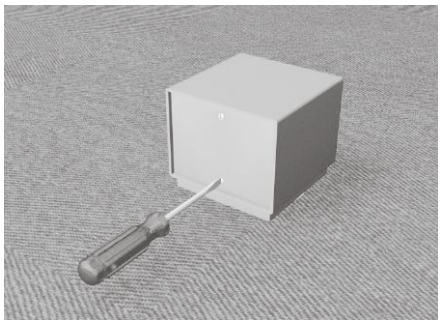
Route the cables from below through the pedestal box (observing the distribution of installation slots and voltages types). Pedestal boxes with 4 or 8 installation fields require a partition wall to be fitted.

Fasten the pedestal box



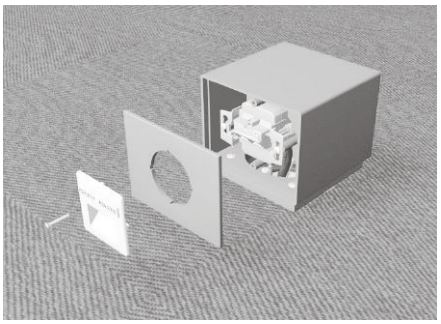
Position the pedestal box on the base and secure it using four bolts M4 x 12 mm.

Secure the blank plate



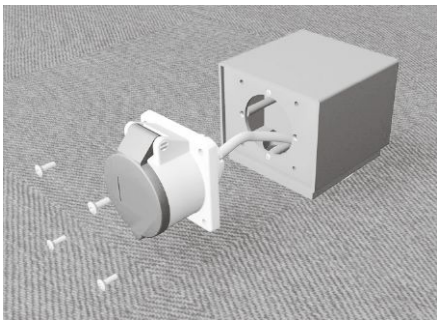
Secure the blank plate in the pedestal box using two screws.

Installation wall for 1 x standard D



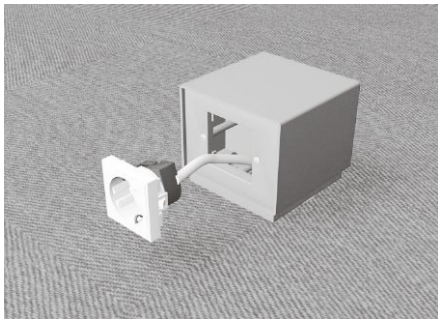
Connect the cables to the installation device and secure it in the pedestal box using two screws. Insert the installation walls and screw down the central plate of the installation device.

Installation wall for 1 x CEE



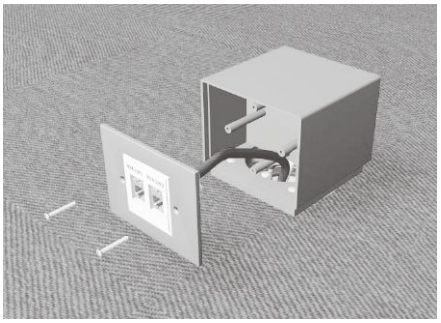
Thread the cables through the installation wall and the rubber part (rubber part included in delivery package of CEE power socket). Secure the installation wall in the pedestal box using two screws. Connect the cables to the CEE power sockets and secure the CEE power sockets to the installation wall using four bolts M4 x16 mm.

Installation wall for 1 x Rastec 45®



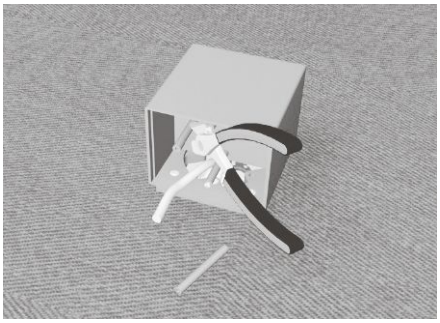
Thread the cables through the installation wall and secure the installation wall to the pedestal box using two screws. Connect the cables to the installation devices and snap the installation devices into the installation wall.

Installation wall for 1 x Rastec 45®



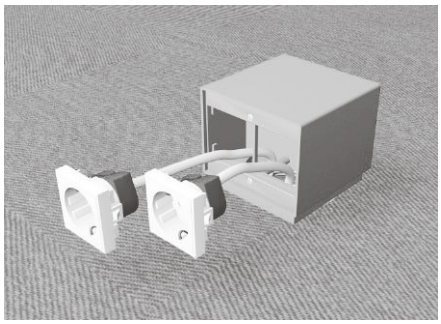
Devices such as telephone or data sockets must be installed into the respective mounting plates beforehand.

Installation wall for 2 x Rastec 45®



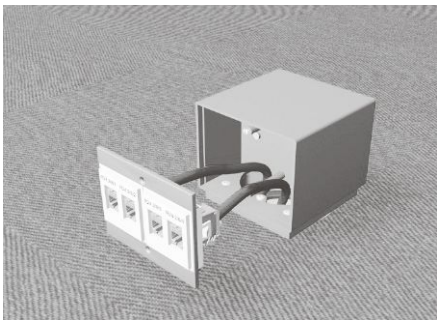
Cut off the two outer studs as close as possible at the rear wall using a wire cutter or nipper pliers.

Installation wall for 2 x Rastec 45®



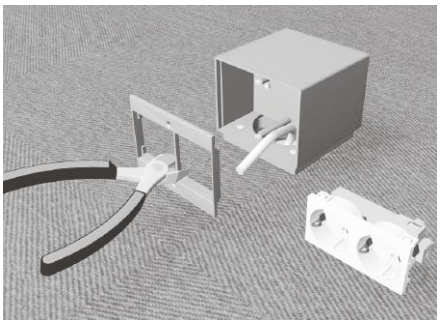
Thread the cables through the installation wall and secure the installation wall to the pedestal box using two screws. Connect the cables to the installation devices and snap the installation devices into the installation wall.

Installation wall for 2 x Rastec 45®



Devices such as telephone or data sockets must be installed into the respective mounting plates beforehand.

Installation wall for double Rastec 45®



When using twin-type sockets of type Rastec 45 ®, the centre rib at the installation wall must be removed using a wire cutter.

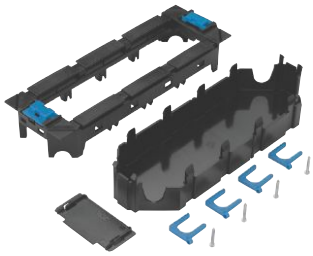
Device casings - Installation devices

electraplan.GB-EG

Snap-in system
Quicker, more convenient and more reliable than any other system: Device casings, sockets and other accessories are matched for a perfect fit and can be plugged together thanks to their accurately engaging tabs – without the hassle of screw-type connections. This saves time and money. Individually customised solutions can be realised with ease.

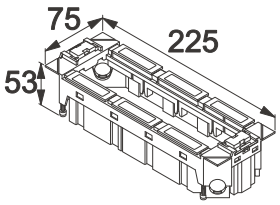
electraplan.GB-EG

▶ from page 5.13



GTVR400

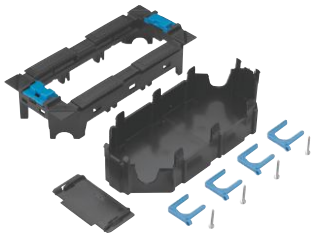
Device carriers for service units VQ12, VR12 or VR10 (centre)



Properties:
- For 4 Schuko power sockets R45 or up to 3 installation devices with support bracket
- Including 4 strain reliefs and 1 partition wall
- Dimensions: 53 x 75 x 225 mm (H x W x L)
- Assembly type: snap-in, with latch
- Material: PC/ABS, halogen-free
- Delivery colour: graphite black

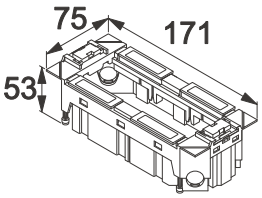
Note:
- Matching blanking cover 45 x 45 mm in pure white: L4750

Designation	PU	Order no.
Device carrier f 4 installation dev. Rastec	20	**GTVR400**



GTVR300

Device carrier for service unit VQ06, VR06 or VR10 (left and right)



Properties:
- For 3 Schuko power sockets R45 or up to 2 installation devices with support bracket
- Including 4 strain reliefs and 1 partition wall
- Dimensions: 53 x 75 x 171 mm (H x W x L)
- Assembly type: snap-in, with latch
- Material: PC/ABS, halogen-free
- Delivery colour: graphite black

Note:
- Matching blanking cover 45 x 45 mm in pure white: L4750

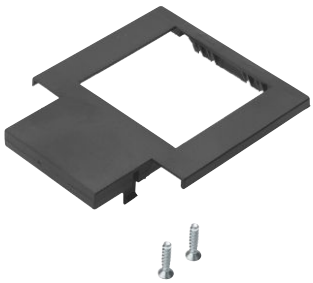
Designation	PU	Order no.
Device carrier f 3 installation dev. Rastec	25	**GTVR300**

GTVRT00

Device carrier partition wall

Properties:
- for device carrier GTVR400 und GTVR300
- To meet additional demand

Designation	PU	Order no.
Device carrier partition wall for GTVR300/400	1	**GTVRT00**



GTMBV34T1

Media covers

Properties:
- For installation of support bracket devices in device carrier GTVR400 or GTVR300
- Opening: 48 x 48 mm
- GTMBV34T1 covers: 1/2 GTVR400 or 2/3 GTVR300
- GTMBV30T2 covers: 3/3 GTVR300
- GTMBV04T2 covers: 3/4 GTVR400
- GTMBV04T3 covers: 4/4 GTVR400

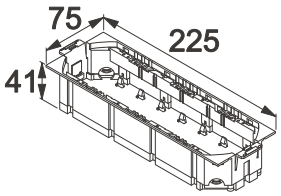
Designation	PU	Order no.
Device carrier media cov. f 1 support bracket device	1	**GTMBV34T1**
Device carrier media cov. f 2 support bracket device	1	**GTMBV30T2**
Device carrier media cov. f 2 support bracket device	1	**GTMBV04T2**
Device carrier media cov. f 3 support bracket device	1	**GTMBV04T3**

▶ from page 5.13

GBVR400

Device casing for service unit VQ12, VR12 or VR10 (centre)

Properties:
- for 4 Schuko power sockets or 4 installation devices Rastec 45 (e. g. 4 Schuko power sockets) or 3 installation devices with support bracket
- Including 4 strain reliefs and 1 partition wall
- Dimensions: 41 x 75 x 225 mm (H x W x L)

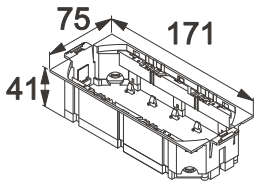


Designation	PU	Order no.
Device casing f 4 installation dev. Rastec	28	**GBVR400**

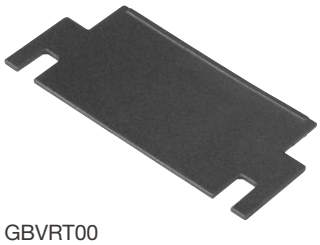
GBVR300

Device casing for service unit VQ06, VR06 or VR10 (left and right)

Properties:
- for 3 Schuko power sockets or 3 installation devices Rastec 45 (e. g. 3 Schuko power sockets) or 2 installation devices with support bracket
- Including 4 strain reliefs and 1 partition wall
- Dimensions: 41 x 75 x 171 mm (H x W x L)



Designation	PU	Order no.
Device casing f 3 installation dev. Rastec	35	**GBVR300**

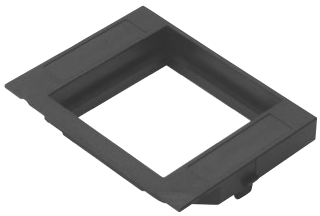


GBVRT00

Device casing partition wall

Properties:
- For device carrier GTVR400 und GTVR300
- To meet additional demand

Designation	PU	Order no.
Device casing partition wall f GBVR300/400	1	**GBVRT00**



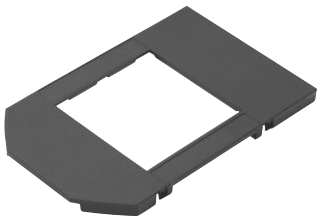
GBMBV34R1

Cover plates

Properties:
- For installation of Rastec 45 installation devices in device casing GBVR400 or GBVR300
- Including 4 strain reliefs and 1 partition wall
- GBMBV34R1 covers: 1/3 GBVR300 or 1/4 GBVR400 opening 45 x 45 mm
- GBMBV34R2 covers: 2/3 GBVR300 or 2/4 GBVR400 opening 45 x 90 mm
- GBMBV34R3 covers: 3/3 GBVR300 or 3/4 GBVR400 opening 45 x 135 mm

Note:
- Matching blanking cover 45 x 45 mm in pure white: L4750

Designation	PU	Order no.
Device casing cover plate for 1 x Rastec	12	**GBMBV34R1**
Device casing cover plate for 2 x Rastec	12	**GBMBV34R2**
Device casing cover plate for 3 x Rastec	12	**GBMBV34R3**



GBMBV23T1

Cover plates

Properties:
- For installation of support bracket devices in device casing GBVR400 or GBVR300
- Opening: 48 x 48 mm
- RAL 9005, deep black
- GBMBV23T1 covers: 2/3 GBVR300 or 1/4 GBVR400
- GBMBV23T2 covers: 3/3 GBVR300 or 3/4 GBVR400
- GBMBV03T3 covers: 4/4 GBVR400

Designation	PU	Order no.
Device casing cover pl f 1 support bracket device	12	**GBMBV23T1**
Device casing cover pl f 2 support bracket device	12	**GBMBV23T2**
Device casing cover pl f 3 support bracket device	12	**GBMBV03T3**

GBVTB48

Blanking cap

Properties:
- Blanking cap closing opening 48 x 48 mm
- RAL 9005, deep black

Designation	PU	Order no.
- Blanking cap for 48 x 48 mm	12	**GBVTB48**

- Schuko power socket 20° Rastec 45 2-pole 16 A / 250 V
- Screw-type terminals
- Dimensions of single module: 45 x 45 mm
- Dimensions of double module: 45 x 90 mm

Available colours
RAL 9010, pure white
RAL 2004, pure orange
RAL 6001, emerald green

▶ from page 5.13

ESR1209010

Schuko power socket 20° Rastec 45, single

Designation	PU	Order no.
Schuko power socket single Rastec 20G rw	48	**ESR1209010**
Schuko power socket single Rastec 20G ro	48	**ESR1202004**
Schuko power socket single Rastec 20G sg	48	**ESR1206001**

ESR2209010

Schuko power socket 20° Rastec 45, double

Designation	PU	Order no.
Schuko power socket double Rastec 20G rw	24	**ESR2209010**
Schuko power socket double Rastec 20G ro	100	**ESR2332004**
Schuko power socket double Rastec 20G sg	24	**ESR2206001**

- Schuko power socket 33° Rastec 45 2-pole 16 A / 250 V
- Spring-loaded terminals
- Dimensions of single module: 45 x 45 mm
- Dimensions of double module: 45 x 90 mm
- Dimensions of triple module: 45 x 135 mm

Available colours
RAL 9010, pure white
RAL 2004, pure orange
RAL 6029, mint green

▶ from page 5.13

ESR1339010

Schuko power socket 33° Rastec 45, single

Designation	PU	Order no.
Schuko power socket single Rastec 33G rw	20	**ESR1339010**
Schuko power socket single Rastec 33G ro	20	**ESR1332004**
Schuko power socket single Rastec 33G mg	20	**ESR1336029**

ESR2339010

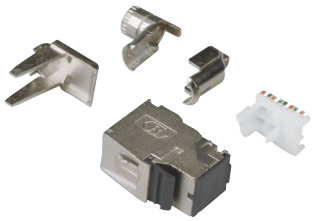
Schuko power socket 33° Rastec 45, double

Designation	PU	Order no.
Schuko power socket double Rastec 33G rw	100	**ESR2339010**
Schuko power socket double Rastec 20G ro	100	**ESR2332004**
Schuko power socket double Rastec 33G mg	100	**ESR2336029**

ESR3339010

Schuko power socket 33° Rastec 45, triple

Designation	PU	Order no.
Schuko power socket triple Rastec 33G rw	50	**ESR3339010**
Schuko power socket triple Rastec 33G ro	50	**ESR3332004**
Schuko power socket triple Rastec 33G mg	50	**ESR3336029**

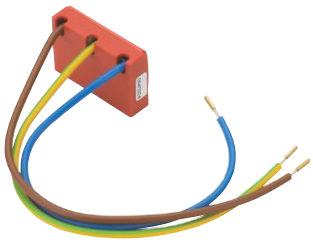


EDSRJ45C6A

Data module RJ45 Cat.6a

Properties:
- Shielded variant - S
- Unshielded variant - U

Designation	PU	Order no.
Data module Cat 6a, single, shielded	10	**EDSRJ45C6A**
Data module Cat 6a, single, unshielded	10	**EDURJ45C6A**



EUS315

Fine-level surge protection device

Properties:
- The surge protection conductor provides fine-level protection on grid the side for electric consumers. It has been designed to be installed in device casings and outputs an acoustic signal in the event of a defect.
- EUS315 - surge protection module with 3 connecting lines of 1.5 mm² each for the connection of a single or multiple power socket
- EUS615 - surge protection module with 6 connecting lines of 1.5 mm² each for the pass-through wiring of several single or multiple power sockets

Designation	PU	Order no.
Fine-level protection with 3 connecting lines	60	**EUS315**
Fine-level protection with 6 connecting lines	60	**EUS615**

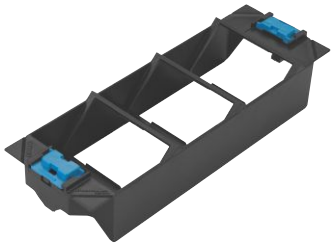
EMR019010

Blank plate Rastec 45

Properties:
- Blank plate for Rastec 45
- Dimensions 1-module: 45 x 22.5 mm
- Dimensions 2-module: 45 x 45 mm

Designation	PU	Order no.
Blank plate, single, for Rastec 45 rw	2000	**EMR019010**
Blank plate, double, for Rastec 45 rw	1600	**EMR029010**

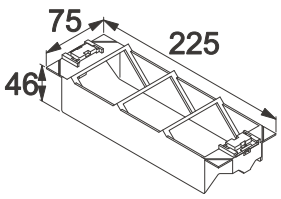
▶ from page 5.13



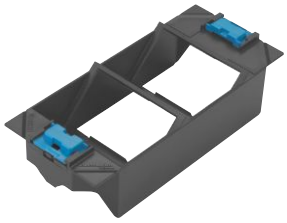
GTVD300

Device carrier for 3 mounting plates for data equipment

Properties:
- Device carrier for service units VQ12, VR12 or VR10 (centre)
- Accepts 3 mounting plates for data or media equipment
- Dimensions: 46 x 75 x 225 mm (H x W x L)
- Assembly type: snap-in, with latch
- Minimum installation depth: 70 mm with 5 mm flooring recess in the cover of the service unit
- Minimum installation depth: 77 mm with 12 mm flooring recess in the cover of the service unit
- Material: PC/ABS, halogen-free
- Delivery colour: RAL 9011, graphite black



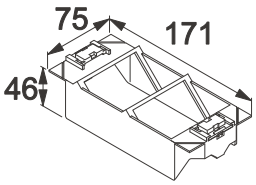
Designation	PU	Order no.
Device carrier f. 3 mount. pl. f. data equ.	1	**GTVD300**



GTVD200

Device carrier for 2 mounting plates for data equipment

Properties:
- Device carrier for service unit VQ06, VR06 or VR10 (left and right)
- Accepts 2 mounting plates for data or media equipment
- Dimensions: 46 x 75 x 171 mm (H x W x L)
- Assembly type: snap-in, with latch
- Minimum installation depth: 70 mm with 5 mm flooring recess in the cover of the service unit
- Minimum installation depth: 77 mm with 12 mm flooring recess in the cover of the service unit
- Material: PC/ABS, halogen-free
- Delivery colour: RAL 9011, graphite black



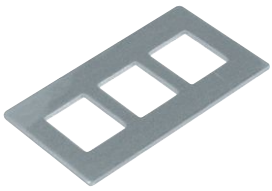
Designation	PU	Order no.
Device carrier f. 2 mount. pl. f. data equ.	1	**GTVD200**

GTVDM00B

Mounting plate

Properties:
- Metal blank mounting plate covering unused angled slots

Designation	PU	Order no.
Mounting plate, blank, GTV data equipment	1	**GTVDM00B**



GTVDM013

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 19.3 x 14.8 mm, e.g. Rutenbeck

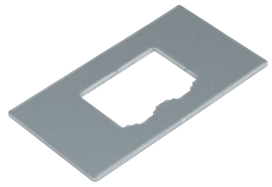
Designation	PU	Order no.
Mounting plate data 3-f RJ45 19.3x14.8	1	**GTVDM013**

GTVDM022

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 20.4 x 27.7 mm, e.g. R&M

Designation	PU	Order no.
Mounting plate data 2-f RJ45 20.4x27.7	1	**GTVDM022**

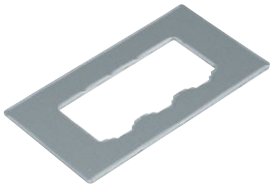


GTVDM032

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 19.5/21.7 x 14.85 mm, e.g. BRT

Designation	PU	Order no.
Mounting plate data 2-f RJ45 19.5x14.85	1	**GTVDM032**

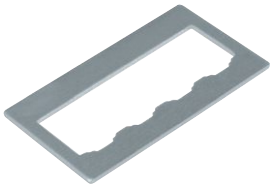


GTVDM033

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 19.5/21.7 x 14.85 mm, e.g. BRT

Designation	PU	Order no.
Mounting plate data 3-f RJ45 19.5x14.85	1	**GTVDM033**

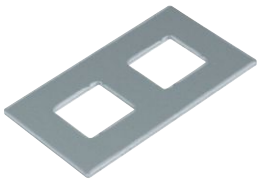


GTVDM034

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 19.5/21.7 x 14.85 mm, e.g. BRT

Designation	PU	Order no.
Mounting plate data 4-f RJ45 19.5x14.85	1	**GTVDM034**

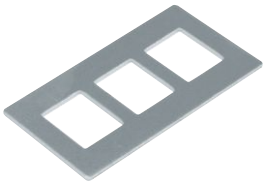


GTVDM042

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 17.2 x 18.3 mm, e.g. Lexcom

Designation	PU	Order no.
Mounting plate data 2-f RJ45 17.2x18.3	1	**GTVDM042**

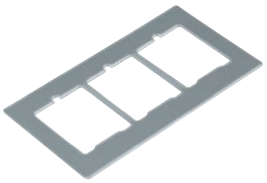


GTVDM053

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 20.1 x 14.8 mm, e.g. AMP

Designation	PU	Order no.
Mounting plate data 3-f RJ45 20.1x14.8	1	**GTVDM053**

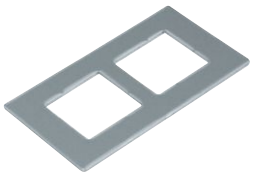


GTVDM063

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 18 x 22.8 mm, e.g. Corning

Designation	PU	Order no.
Mounting plate data 3-f RJ45 18x22.8	1	**GTVDM063**

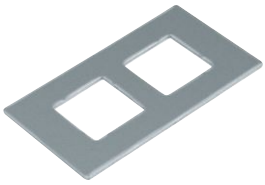


GTVDM072

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 21.7 x 22.4 mm, e.g. Kerpen

Designation	PU	Order no.
Mounting plate data 2-f RJ45 21.7x22.4	1	**GTVDM072**

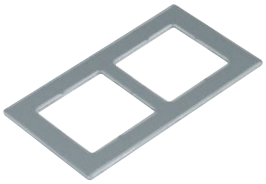


GTVDM082

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 20.1 x 19.5 mm, e.g. AT&T

Designation	PU	Order no.
Mounting plate data 2-f RJ45 20.1x19.5	1	**GTVDM082**



GTVDM092

Mounting plate

Properties:
- Metal mounting plate for data equipment with installation opening: 25.2 x 25.2 mm, e.g. Panduit

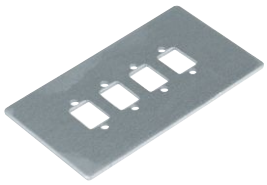
Designation	PU	Order no.
Mounting plate data 2-f RJ45 25.2x25.2	1	**GTVDM092**

GTVDM202

Mounting plate

Properties:
- Metal mounting plate for ST-type fibre-optic equipment, installation opening 9.8 x 8 mm

Designation	PU	Order no.
Mounting plate data 2-f LWL 9.8x8	1	**GTVDM202**

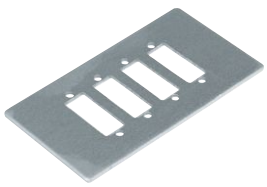


GTVDM214

Mounting plate

Properties:
- Metal mounting plate for SC-Simplex-type fibre-optic equipment, installation opening 9.7 x 13.3 mm

Designation	PU	Order no.
Mounting plate data 4-f LWL 9.7x13.3	1	**GTVDM214**



GTVDM224

Mounting plate

Properties:
- Metal mounting plate for SC-Duplex-type fibre-optic equipment, installation opening 9.7 x 26 mm

Designation	PU	Order no.
Mounting plate data 4-f LWL 9.7x26	1	**GTVDM224**

GTVDM301

Mounting plate

Properties:
- Metal mounting plate for data equipment, audio or video equipment type D-Sub 9, installation opening 12.8 x 21 mm

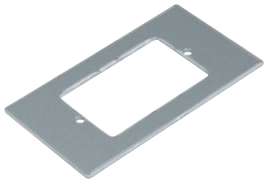
Designation	PU	Order no.
Mounting plate f. audio/video D-Sub9 12.8x21	1	**GTVDM301**

GTVDM311

Mounting plate

Properties:
- Metal mounting plate for audio equipment type XLR, installation opening Ø 24 mm

Designation	PU	Order no.
Mounting plate f. audio XLR diam. 24mm	1	**GTVDM311**



GTVDM331

Mounting plate

Properties:
- Metal mounting plate for Kindermann multimedia connecting modules, installation opening 25 x 39 mm

Designation	PU	Order no.
Mounting plate for multimedia 25x39mm	1	**GTVDM331**

- For installation of CEE power sockets
- Minimum installation depth: 170 mm
- Fits the following CEE power sockets:

16 A:
hager ECEE165
ABL Sursum - F51S300
Mennekes - TwinCONTAKT 338

32 A:
hager ECEE325
ABL Sursum - F53S300

Note
CEE power socket not included in supply

▶ from page 5.13

GBVC400

CEE mounting panel GBVC400

Properties:
- Mounting panel for stainless-steel cassette EKQ12, EKR12, service unit VQ12, VR12, VANR12 or VR10 (centre)
- Replaces device casing GTVR400, GBVR400 or GTVD300

Designation	PU	Order no.
Mount. panel CEE repl. f. GB/GTVR400/GTVD300	1	**GBVC400**

GBVC300

CEE mounting panel GBVC300

Properties:
- Mounting panel for stainless-steel cassette EKQ06, EKR06, service unit VQ06, VR06, VE09 or VR10 (left and right)
- Replaces device casing GTVR300, GBVR300 or GTVD200
- Suitable for connection of CEE angled plug

Designation	PU	Order no.
Mount. panel CEE repl. f. GB/GTVR300/GTVD200	1	**GBVC300**

ECEE165

CEE power socket

Properties:
- CEE power socket, straight
- Splash-water protection rating IP 44
- 5-pole 400 V 50/60 Hz
- ECEE16 - 16 A
- ECEE32 - 32 A

Designation	PU	Order no.
CEE power socket, straight, 16 A IP44	10	**ECEE165**
CEE power socket, straight, 32 A IP44	1	**ECEE325**

Device carrier - installation devices

Identifier	Accessories	Number of installed Accessories	Type	Type
GT = device carriers	Y V = for service unit	Z R400 = four Schuko power sockets Rastec 45 or three installation devices with support bracket R300 = three Schuko power sockets Rastec 45 or two installation devices with support bracket RT00 = partition wall		
	W MB = Media cover for installation of support bracket devices	X V = for service unit	Y 34 = for GTVR300 and GTVR400 30 = for GBV300 only 04 = for GBV400 only	Z T1 = 1 x opening f. support bracket device T2 = 2 x opening f. support bracket device T3 = 3 x opening f. support bracket device

Device casing - installation devices

Identifier	Accessories	Number of installed Accessories	Type	Type
GB = device casings	Y V = for service unit	Z R400 = four Schuko power sockets or four installation devices Rastec 45 or three installation devices with support bracket R300 = three Schuko power sockets or three installation devices Rastec 45 or two installation devices with support bracket RT00 = partition wall		
	W MB = Media cover for installation of Rastec 45 support bracket devices	X V = for service unit	Y 34 = for GBVR300 and GBVR400	Z R1 = 1 x Rastec 45 R2 = 2 x Rastec 45 R3 = 3 x Rastec 45
	Y MB = Media cover for installation of support bracket devices	Y V = for service unit	 23 = for GBVR300 and GBVR400 03 = for GBVR400 only	Z T1 = 1 x opening f. support bracket device T2 = 2 x opening f. support bracket device T3 = 3 x opening f. support bracket device

Device casings - installation devices - Schuko power sockets

Identifier	Type	Type Accessory/shielding	Orientation/degrees	Colour
E = Installation devices	W	X	Y	Z
	S = Schuko power socket	R1 = Rastec 45, single R2 = Rastec 45, double R3 = Rastec 45, triple	20 = 20 degrees 33 = 33 degrees	9010 = RAL 9010, pure white 2004 = RAL 2004, pure orange 3000 = RAL 3000, blazing red 6001 = RAL 6001, emerald green 6029 = RAL 6029, mint green
	D = Data module	S = shielded U = unshielded	RJ45 = RJ45	C6A = Cat.6A
	U = Surge protection	S315 = 3 connecting lines 1.5 mm² S615 = 6 connecting lines 1.5 mm²		
	MR01 = Blank plate for Rastec 45, single MR02 = Blank plate for Rastec 45, double			9010 = RAL 9010, pure white

Device casings installation devices - Device casings for data equipment

Identifier	Accessories	Type Accessories	Type	Number of openings
GT = device carriers	W	X	Y	Z
	V = for service unit	D = data equipment	200 = for installation of 2 mounting plates 300 = for installation of 3 mounting plates	
		DM = Data equipment mounting plate	00B = Blank RJ45 01 x 19.3 x 14.8 02 x 20.4 x 27.7 03 = 19.5/21.7 x 14.85 04 x 17.2 x 18.3 05 x 20.1 x 14.8 06 x 18 x 22.8 07 x 21.7 x 22.4 08 x 20.1 x 19.5 09 x 25.2 x 25.2 Optical fibres 20 x 9.8 x 8 21 x 9.7 x 13.3 22 x 9.7 x 26 Audio/video 30 = 12.8 x 21 - D-Sub 9 31 = diameter 24 - XLR 33 = 25 x 39 - Kindermann	1 = one opening 2 = two openings 3 = three openings 4 = four openings

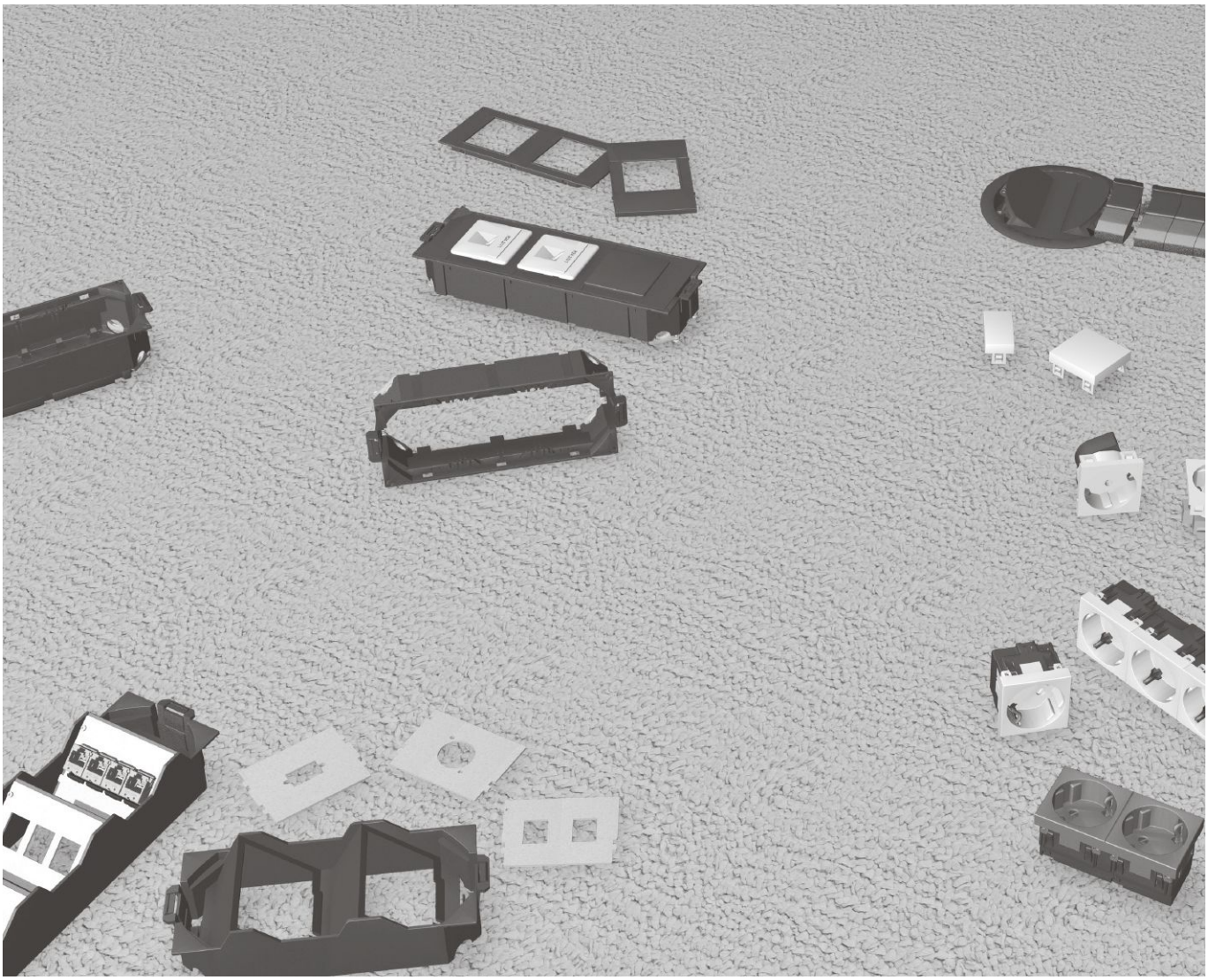
Mounting panels and CEE power socket

Identifier	Type	Type Accessories	Type
GB = device casings	X	Y	Z
	V = for service unit	C = CEE mounting panel	300 = replaces GBVR300, GTVR300, GTVD200 400 = replaces GBVR400, GTVR400, GTVD300
E = Installation device	CEE = CEE	16 = 16 A 32 = 32 A	5 = 5-pole

Device casings - General description - Function and application

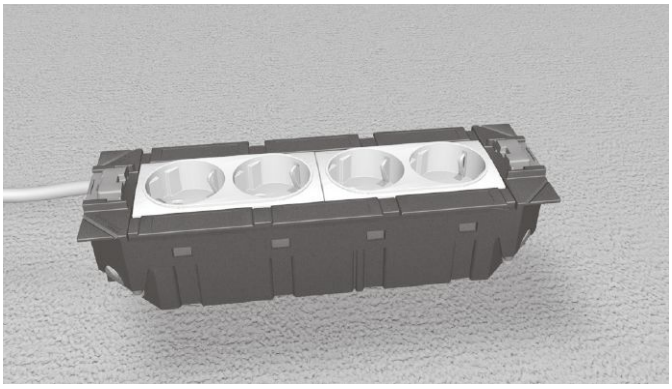
Snap-in connections
Device casings, power sockets and other accessories are easily assembled thanks to their snap-in connections.
Precisely fitting tabs eliminate the need to use screws.

Compatibility
All components are matched for optimal fit. Different solutions can be realised for almost any application.

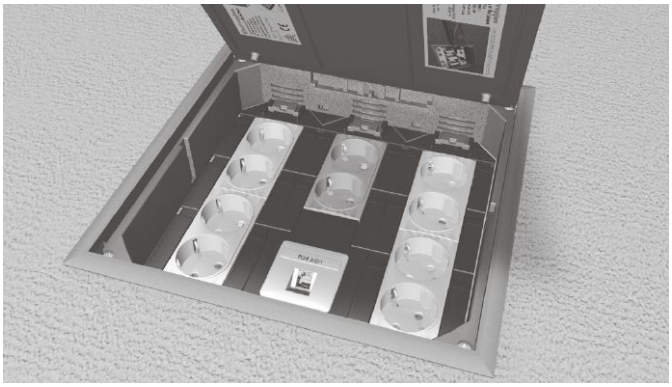


The new and innovative device carriers GTVR300 and GTVR400 are easy to install. Pinching cables or accidentally tearing cables from terminals is now a thing of the past. It is no longer necessary to thread cables and lines into the device carriers before installation. All installation steps are visible.

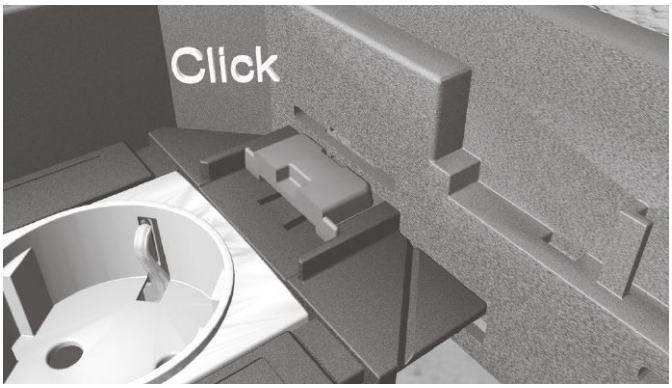
The installation device such as a power socket is snapped into the top part of the device carrier and connected. After arranging the individual strands, the bottom of the device casing is snapped in place.

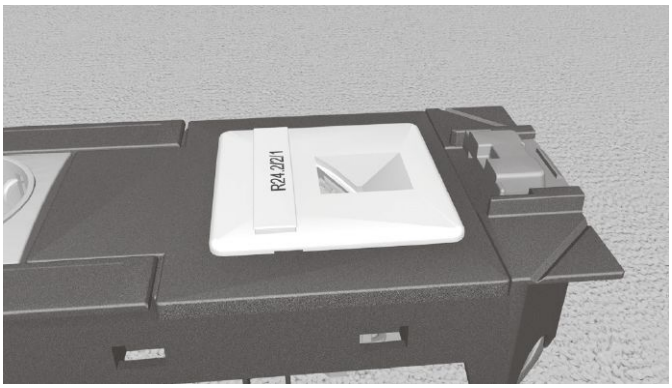


Webs and design elements can be removed if required to permit the combined use of Rastec 45® sockets and supporting-web devices. Fitting the device carrier with a combination of Schuko power sockets in Rastec 45® format and supporting-web devices e.g. for network connections is not a problem.



Rastec 45® installation devices can be snapped in without any additional cover plates. The device carriers latch in the service units easily and reliably.





Devices casings for data and media equipment are characterised by sloped compartments that accept mounting plates of any type. Ideal for conference or multi-media rooms. Thanks to the modular design, systems can be arranged flexibly. For example, you can combine data equipment sockets with audio and video sockets in the same device casing.

Installation is easy. Mounting plates are pushed from above into brackets where they securely latch into place.

No matter which hole pattern you may need, almost anything is possible! All hole patterns for the following connections can be realised: data equipment, optical fibres, audio cinch, audio 3.5 mm stereo jack, audio XLR, 15-pin VGA or DVI-D digital, S-Video, BNC, USB, PS2 for keyboard and mouse, serial data transmission via 9-pin D-Sub.

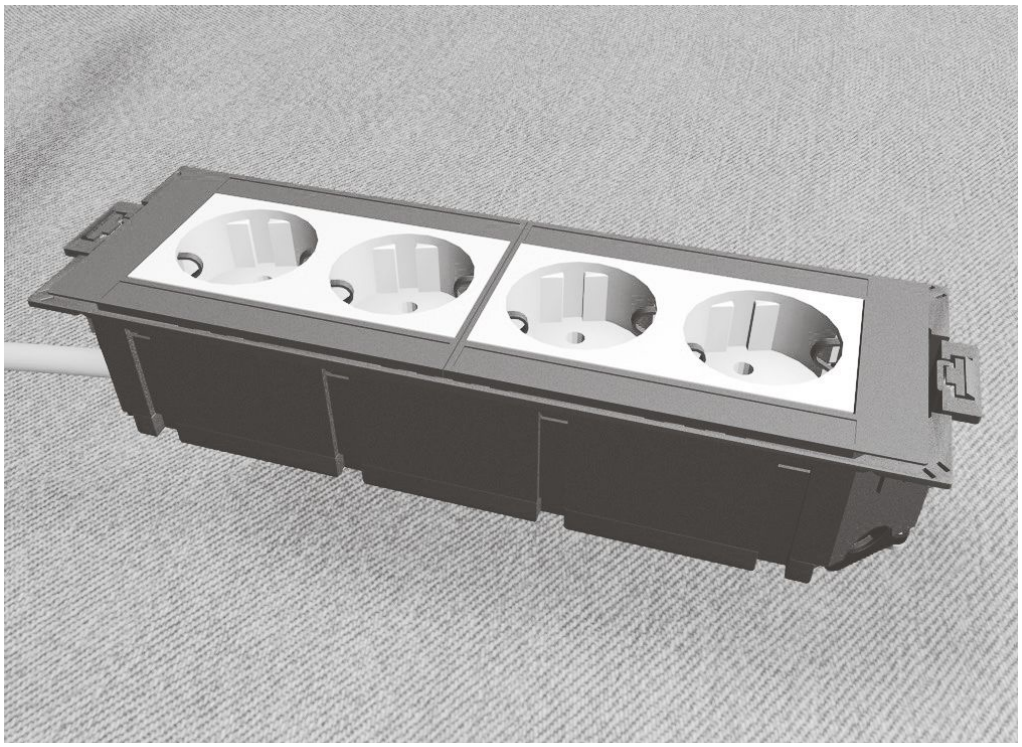
Some mounting plates with the most commonly used hole patterns are shown on pages 5.8 to 5.11. Is your hole pattern missing? No problem, just get in touch with us.

All mounting plates come at the same price! No matter which hole pattern you need or even if you require a customised hole pattern, the price of the mounting plate will always be the same.

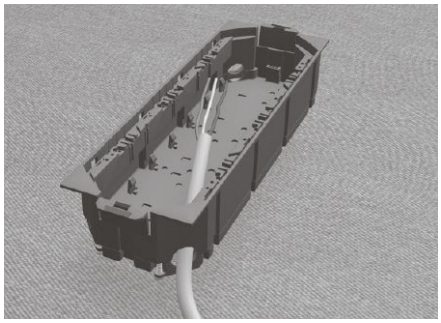
General instructions:

System-specific sockets
The device casings GBVR400 and GBVR300 fit system-specific Schuko sockets with protective earth contacts.
Rastec 45® Schuko sockets with protective earth contacts can also be installed using mounting plates.

Overvoltage
Overvoltage protection modules can be installed as an option.

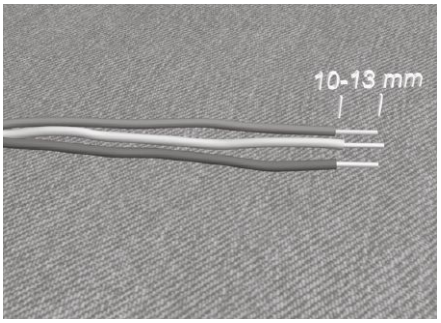


Route the cable into the device casing



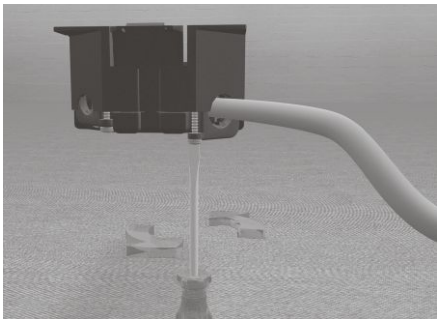
Route cable through side opening of device casing.

Strip the cables



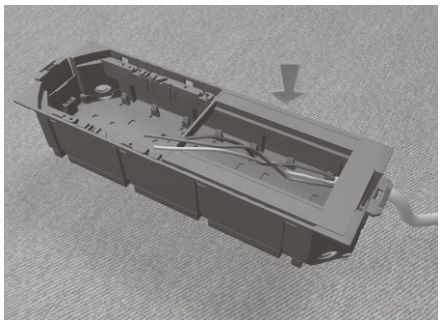
Strip insulation of the individual wires to a length of 10 to 13 mm.

Pull off the strain relief



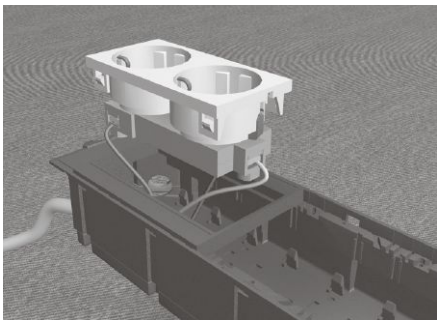
Pull back surplus cables and tighten screw of respective strain relief.

Snap in the mounting plate for Rastec 45®



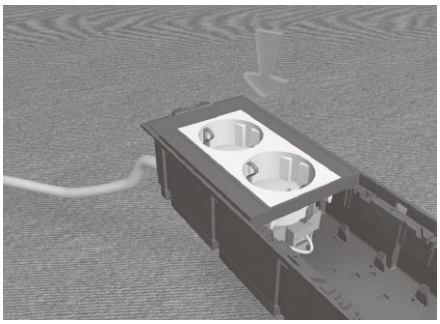
Rastec 45® sockets are installed into device casings using a mounting plate. Insert mounting plate from the top into guide of device casing until the tabs snap in.

Connect socket Rastec 45®



Connect socket Rastec 45®, routing the wires through the opening in the mounting plate.

Snap in socket Rastec 45®

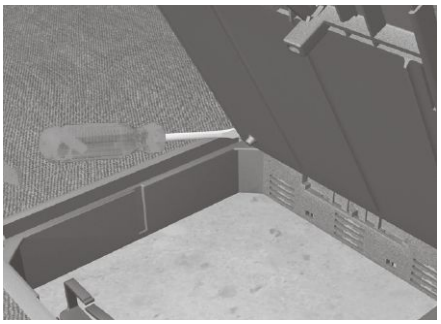


Socket for Rastec 45® is pushed into the mounting plate from above until it snaps in.

Turn the corners upwards (optional)

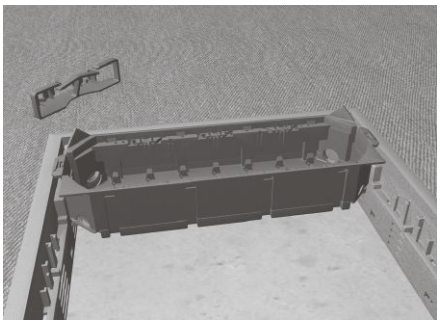
If the device casing is not installed in the middle of the service unit, the corners of the device casing are turned upwards or downwards. This avoids the cumbersome procedure of cutting off the corners.

Remove the cover



To simplify the installation procedure we recommend removing the cover prior to installation. Twist the screwdriver to loosen the tabs.

Locate the device casing



Position the device casing horizontally in the service unit. The corners of the device casing are turned upward or downward.

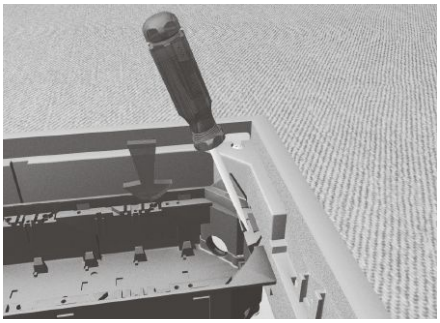
Insert a screw driver

Use the screwdriver to snap in the device casing lug at the required height. The tab must engage audibly.

Bend the lug inward

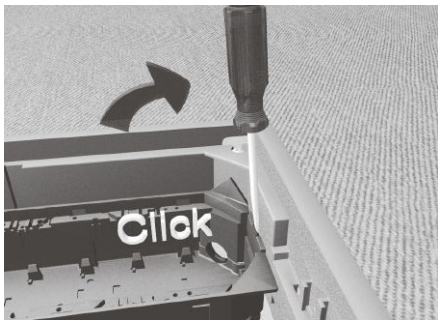
Bend the device casing lug inwards using a screwdriver.

Locate the device casing



Adjust the device casing to the required height using the screwdriver.

Snap in the device casing

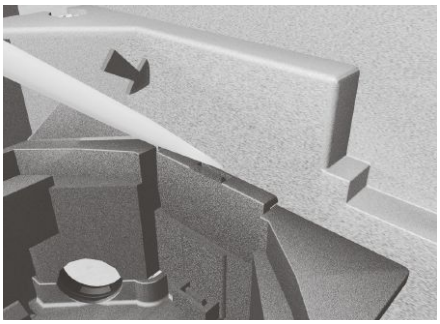


Snap in the device casing lug at the required height using a screwdriver. The tab must snap in audibly.

Snap in the opposite side

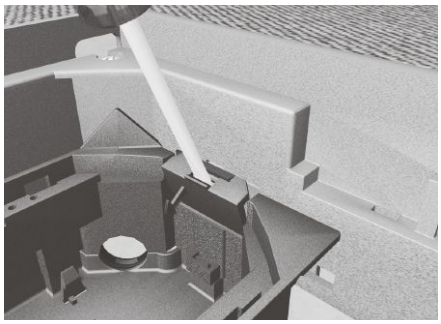
Following the principle of the preceding steps, snap the device casing into the service unit on the opposite side.

Release the device casing



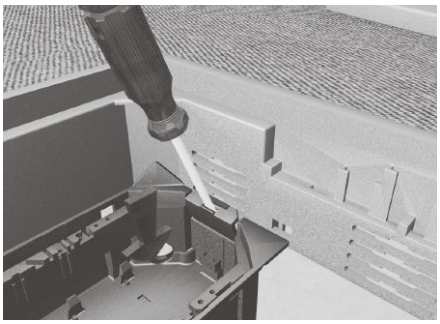
Insert the screwdriver into the perforation at an angle and turn it upward to release the tab of the device casing from the service unit.

Pull out the lug of the device casing



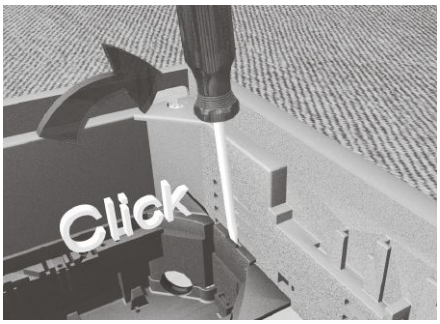
Bend the lug of the device case inward using a screwdriver and pull it from the perforation of the service unit.

Lower the device casing



Adjust the device casing to the required height using the screwdriver.

Snap in the device casing

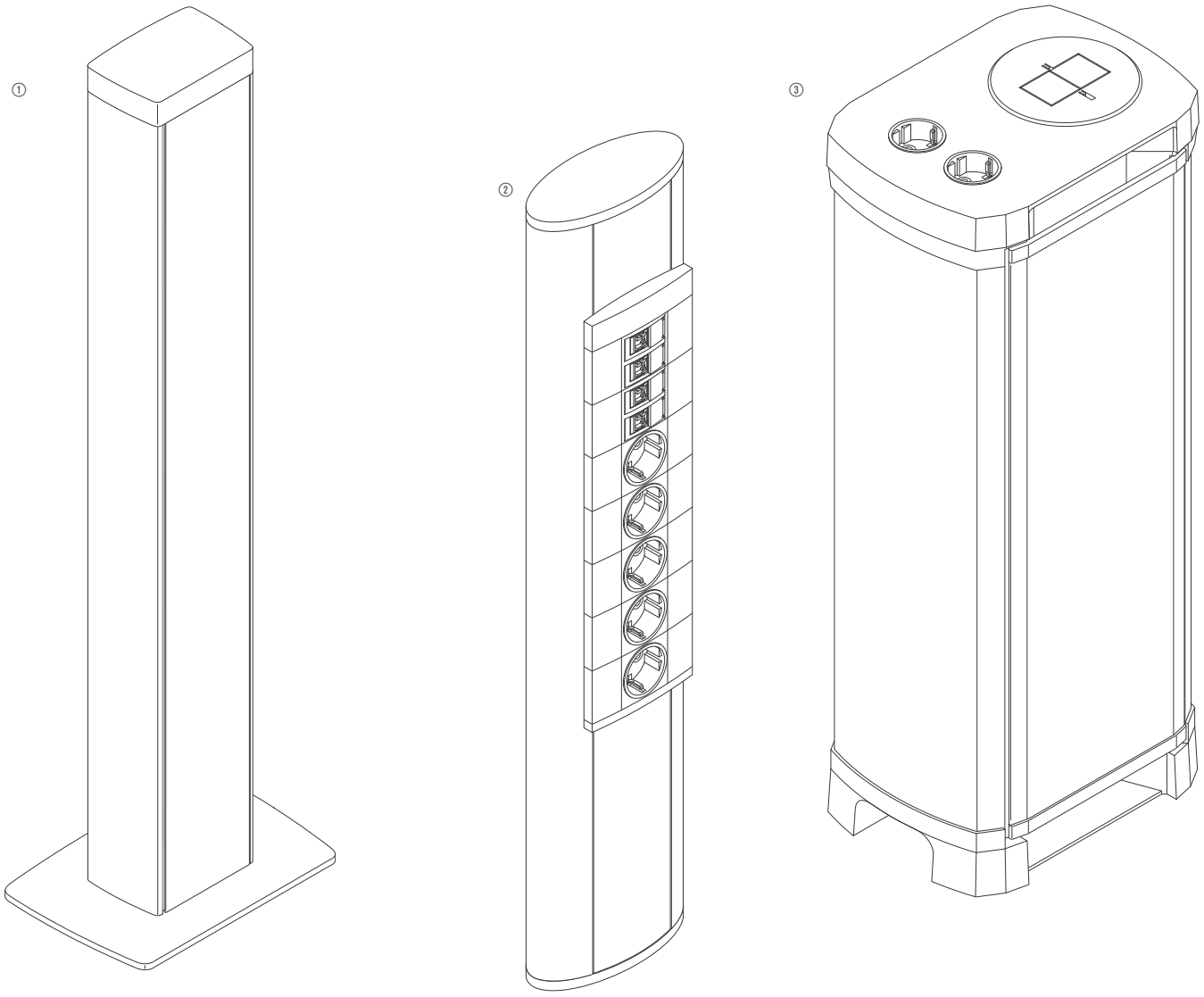


Snap in the device casing lug at the required height using a screwdriver. The tab must snap in audibly.

Service posts

tehalit.DAP | DEP | Room distributors

Down to earth
There‘s most likely no solution that is more practical or more easy on the eye when it comes to freely distributing power outlets and data ports across the floor space: The tehalit.DA200 service posts are available with installation positions for front-latching installation devices on one or both sides or, as a particularly appealing solution, as the tehalit.DEP 'exklusiv'variant which comes prefitted with 5 SCHUKO® power sockets and four Cat.6 STP data ports. Room distributors provide even more connecting capacity. They can be fitted individually but are also available with preassembled connecting modules.



tehalit.DAP | DEP | Room distributors

① tehalit.DAP

② tehalit.DEP

③ Room distributors

- Service post made of DA 200 profile for the distribution of power and data across the entire floor space
- Solid mounting of floor plate to floor
- Underground line infeed

Device installation
Installation of front-latching devices using the WAGO-WINSTA plug-in system and modular bezel system, or industry-standard device installation, see catalogue 'Cable management + Trunking system solutions 2012'.

Scope of supply:
- Top part and base
- Floor plate
- Cap
- Earthing kit

Available colours
ELN, aluminium, naturally anodised
RAL 9010, pure white

- ELN variant with floor plate and cap in RAL 9011, graphite black
- RAL 9010 variant with floor plate and cap in RAL 9010, pure white

Material
- Body: aluminium
- Cap: polyamide
- Floor plate: sheet metal

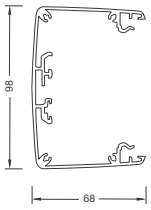
Custom solutions and lengths on request.

▶ from page 6.9

DAP806509010

Service post, single-sided

Aluminium installation post for front-latching installation devices with modular covers, slightly convex profile (68 x 98 mm), floor plate (168 x 138 mm)

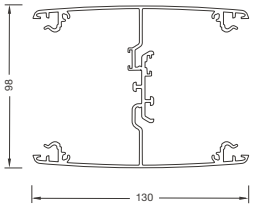


Designation	PU	Order no.
Service post, 650 mm, naturally anod.	1	**DAP80650ELN**
Service post, 650 mm, pure white	1	**DAP806509010**

DAP2806509010

Service post, double-sided

Aluminium installation post for front-latching installation devices with modular covers, slightly curved profile (130 x 98 mm), floor plate (168 x 200 mm)



Designation	PU	Order no.
Service post, 2-sided 650 mm, naturally anod.	1	**DAP280650ELN**
Service post, 2-sided 650 mm, pure white	1	**DAP2806509010**

- Attractively shaped, elliptic profile providing installation positions on both sides for preassembled device installation module[s] with 5 SCHUKO® power sockets and 4 Cat.6 STP data ports
- Height 650 mm
- Attachment: Service post base screws to double floor or cavity floor
- 2 earthing kits L5805 and assembly kit (4 screws, 4 plugs) included in delivery package.

Available colours
- Core profile made of aluminium, black anodised
- Device installation module, RAL 9011, graphite black
- Design element of device installation module painted in titanium grey

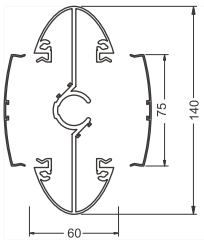
Material
- Body: aluminium
- Device installation module made of plastic
- Service post cap and base made of steel

▶ from page 6.9

DEP650D

Service post DEP 'exklusiv'

- Elliptic profile
- Prefitted with pre-wired device installation module with 5 SCHUKO® power sockets and 4 Cat.6 STP data ports, line length from module 3.5 m
- Height 650 mm



Designation	PU	Order no.
Design service post, 0.65m, 4xCat.6, 5xSTD	1	**DEP650D**

DEPMD

Device installation module for DEP design service post

- For device installation on both sides of the design service post or as replacement
- Prefitted with 5 SCHUKO® power sockets and 4 Cat.6 STP data ports
- Prewired with 3.5 m line length
- Preassembled lines with WAGO-WINSTA and RJ45 connector technology

Designation	PU	Order no.
Preass. module f. DEP 4xCat.6, 5xSTD	1	**DEPMD**

- Table-height room distributor for power and data distribution across the entire floor space
- Attractive housing
- Interior easily accessible via two large doors
- Storage space for feed lines and patch cables
- Interfaces for floor-mounted trunking or flat chains for line routing
- Connections for round chains and flat chains
- Suitable for loading with pre-assembled connecting modules or with individual devices from the programme of front-latching devices
- Custom variants e.g. with workplace lighting or retractable workplace connection system are possible

Material
- Housing made of anodised aluminium and plastic finished in RAL 7035 light grey or, in case of variant finished in RAL 7021, with cap and base in RAL 7021 anthracite.
- Standard height 640 mm
- 2 power socket boxes integrated in cap (WAGO-WINSTA)
- Custom variants with switch, surge protection device or power socket combinations on request
- Cable holders

▶ from page 6.9

G70707035

Room distributor for connecting modules

For installation of up to 4 power socket combinations

Designation	PU	Order no.
Room distr.empty,f.conn. modules,an	1	**G70707021**
Room distr.empty,f.conn. modules,lg	1	**G70707035**

G70717035

Room distributor for connecting modules and device installation, front-latching

For installation of max. 2 power socket combinations and 2 installation profiles (1 compartment), length 550 mm for front-latching devices

Designation	PU	Order no.
Room distr.empty,f.conn. module/Ecol.fro,an	1	**G70717021**
Room distr.empty,f.conn. module/Ecol.fro,lg	1	**G70717035**

G70727035

Room distributor for device installation, front-latching

with 4 installation profiles (2 compartments)
Length 550 mm for front-latching devices

Designation	PU	Order no.
Room distr.,empty,f.Ecol.front-l.dev.inst.,an	1	**G70727021**
Room distr.,empty,f.Ecol.front-l.dev.inst.,lg	1	**G70727035**

▶ from page 6.9

G7017ELN

Connecting module

Designation	PU	Order no.
Connecting module eln WA-WI 4STD an	1	**G7010ELN**
Connecting module eln WA-WI 5STD 3ant 2red	1	**G7011ELN**
Connecting module eln WA-WI switch 4STD ant	1	**G7012ELN**
Connecting module eln WA-WI ÜS-S-NF 3STD an	1	**G7013ELN**
Connecting module eln WA-WI 7STD ant	1	**G7014ELN**
Connecting module eln WA-WI 7STD red	1	**G7015ELN**
Connecting module eln WA-WI 7STD 4ant 3red	1	**G7016ELN**
Connecting module eln WA-WI ÜS-S-NF 4STD an	1	**G7017ELN**
Connecting module eln Master/Slave 1/4 anth	1	**G7018ELN**

G71517035

Installation kit for front-latching device installation

For retrofitting of distributor G7070 or G7071
(requires disassembly of housing)
Material: PC/ABS halogen-free

Designation	PU	Order no.
Installation kit Ecoline, light grey	1	**G71517035**

G71527035

Cover

for covering unused installation slots of G7071 or G7072
Material: PVC

Designation	PU	Order no.
Ecoline cover (L=300mm), light grey	20	**G71527035**

G7150

Connecting and extension kit

Comprising: 1 connecting line 5 m, with VDE angled plug,
2 pass-through connecting lines with male connector and female connector (300 mm), 2-way distributor for parallel distribution

- 3 x 1.5 mm²

Designation	PU	Order no.
Connecting and extension kit f. room distr.	1	**G7150**

G4741

Connecting lines

- Connecting line with VDE angled plug and male connector, 3-pole
- 3 x 1.5 mm²

Designation	PU	Order no.
WAGO conn.l.Schuko angled plug,1m	1	**G4721**
WAGO conn.l.Schuko angled plug,2m	1	**G4731**
WAGO conn.l.Schuko angled plug,3m	1	**G4741**
WAGO conn.l.Schuko angled plug,4m	1	**G4751**
WAGO conn.l.Schuko angled plug,5m	1	**G4761**

G4732

Connecting lines

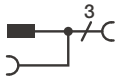
With male connector and female connector
- 3 x 1.5 mm²
- 3 x 2.5 mm²
- 3 x 2.5 mm² halogen-free (hfr)

Designation	PU	Order no.
WAGO conn. line 3x1.5mm², 300mm	10	**G4719**
WAGO conn. line 3x1.5mm², 450mm	10	**G4730**
WAGO conn. line 3x1.5mm², 750mm	10	**G4732**
WAGO conn. line 3x1.5mm², 1500mm	20	**G4735**
WAGO conn. line 3x1.5mm², 2500mm	10	**G4736**
WAGO conn. line 3x1.5mm², 4500mm	10	**G4740**
WAGO conn. line 3x1.5mm², 5000mm	10	**G4745**
WAGO conn. line 3x1.5mm², 7500mm	5	**G4746**
WAGO conn. line 3x1.5mm²,10000mm	5	**G4749**
WAGO conn. line 3x1.5mm²,12500mm	10	**G4750**
WAGO conn. line 3x2.5mm², 300mm	10	**G4733**
WAGO conn. line 3x2.5mm², 450mm	10	**G4743**
WAGO conn. line 3x2.5mm², 750mm	10	**G4753**
WAGO conn. line 3x2.5mm², 1500mm	20	**G4796**
WAGO conn. line 3x2.5mm², 2500mm	10	**G4797**
WAGO conn. line 3x2.5mm², 4500mm	10	**G4798**
WAGO conn. line 3x2.5mm², 5000mm	10	**G4762**
WAGO conn. line 3x2.5mm², 7500mm	5	**G4764**
WAGO conn. line 3x2.5mm², hfr, 300mm	10	**G4790**
WAGO conn. line 3x2.5mm², hfr, 450mm	10	**G4791**
WAGO conn. line 3x2.5mm², hfr, 750mm	5	**G4792**
WAGO conn. line 3x2.5mm², hfr, 1500mm	20	**G4793**
WAGO conn. line 3x2.5mm², hfr, 2500mm	10	**G4794**
WAGO conn. line 3x2.5mm², hfr, 4500mm	10	**G4795**

G4773

Distributor, 2-way

For parallel-switching of multiple power sockets

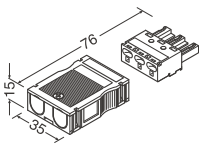


Designation	PU	Order no.
H-distributor 3 p.	10	**G4773**

G4703

Male connector

The male connector is required to connect the power socket

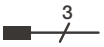


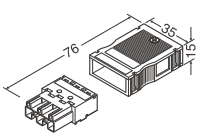
Designation	PU	Order no.
Male connector 3 p.	25	**G4703**

G4713

Output connector

For the connection to further power sockets





Designation	PU	Order no.
Output connector 3 p.	25	**G4713**

G7075SCHW

Installation connecting unit

Ready for installation with 4 SCHUKO® power sockets,
2 RJ45, 2-f, Cat.6 (Patch/Patch)

Designation	PU	Order no.
Installation connecting unit,RV-M,4Schuko, sch	1	**G7075SCHW**

G7091

Cable holder

Holder for excessive line lengths to keep the inside of the housing tidy

Designation	PU	Order no.
Cable holder, room distributor	50	**G7091**

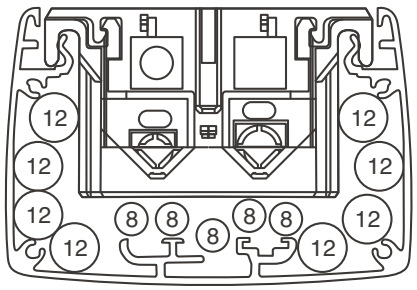
G7170

Hook-and-loop cable wrap

5 m roll,
15 mm wide

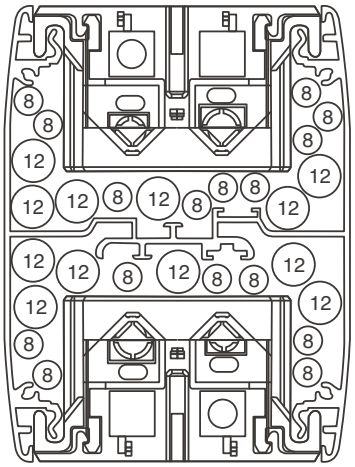
Designation	PU	Order no.
Hook-and-loop cable wrap	5	**G7170**

Example shows device installation box G2850
for the installation of commercially available flush-mounted components from various manufacturers.



Profile, single-sided variant:
Min. 6 x Ø 12 mm
Min. 4 x Ø 8 mm

NYM-J5 x 2.5 mm² - Ø 12.2 mm - power line
PIMF-100 Ω - Ø 8.2 mm - data line



Profile, double-sided variant:
Min. 12 x Ø 12 mm
Min. 8 x Ø 8 mm

Bending radii

Lines

According to VDE 0298 part 3 (1983) the following bending radii must be observed for plastic lines:

Power type	**U_o <= 0.6/1 kV**				**U_o >= 0.6/1 kV**
Power ratings for fixed	Outer line diameter in mm				
Routing	d <= 10	10< d <= 25	25 < d		
Fixed routing	4d	4d	4d		6d
Flexible lines	Outer diameter of line in mm				
	d <= 8	8 < d <= 25	12 < d < 20	20 < d	6d
Fixed routing	3d	3d	4d	4d	10d
Infeed	3d	4d	5d	5d	

Optical fibre

Manufacturer	**Outer diameter of line in mm**	**Minimum bending radii in mm**
Alcatel/Kabelmetal	3.5 - 12	20 - 95
ANT	3.5 - 12	150
Dätwyler	3.0 - 7.9	30 - 120
Kabelreydt	3.4 - 11.6	20 - 175
Belden	2.9 - 13	75 - 130

Information is subject to change

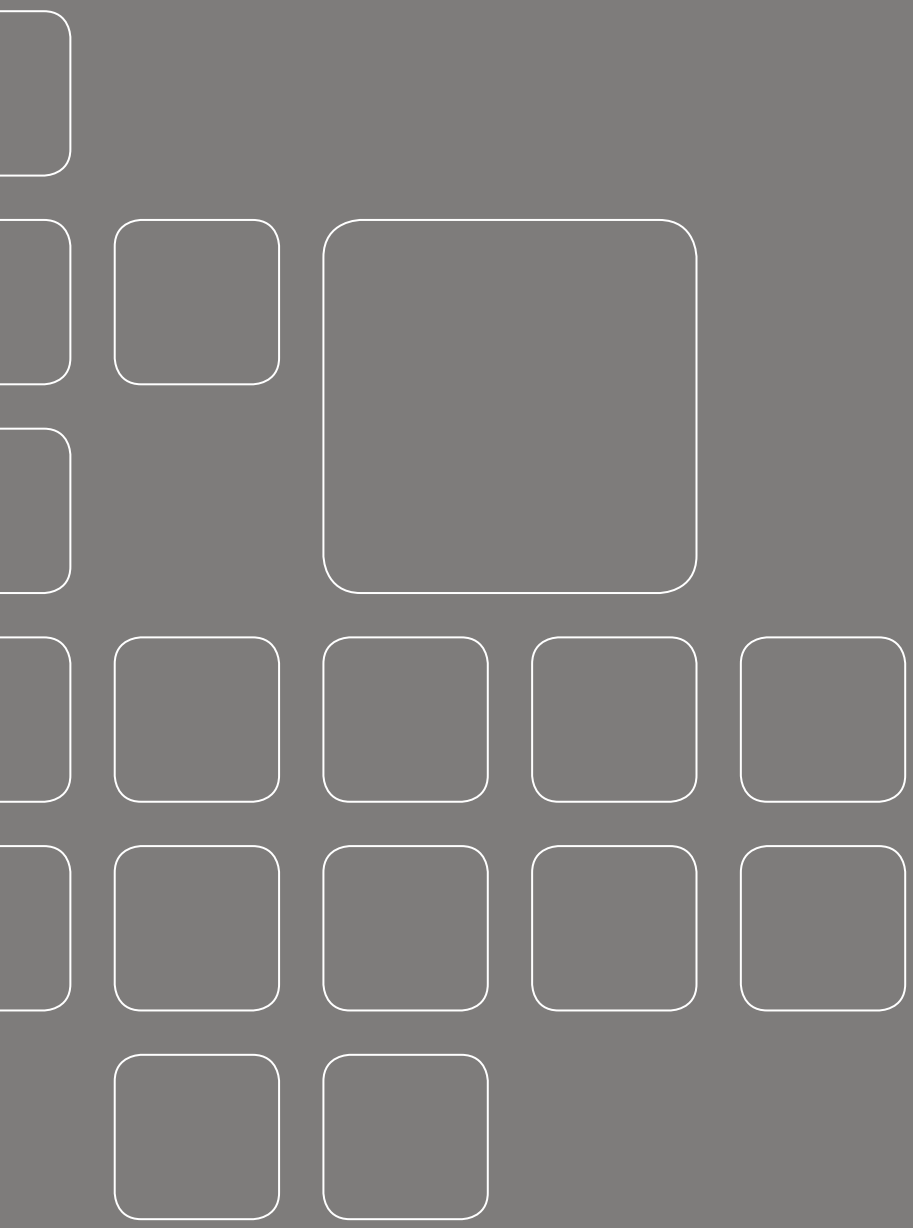
Standard EN 187101 recommends the following:

$$R_{radius} = 10 \times d_{cable}$$

with R_{bend} = bending radius of cable,
d_{cable} = cable diameter

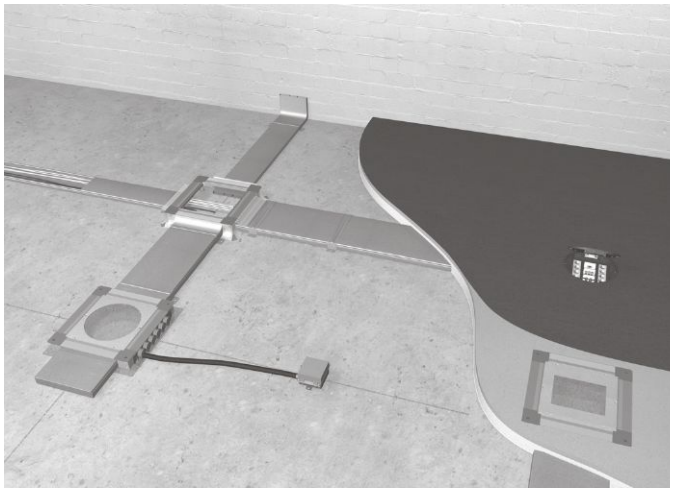
Cable manufacturers may specify deviating bending radii. Please observe the technical data sheets provided with the respective products.

Technical information



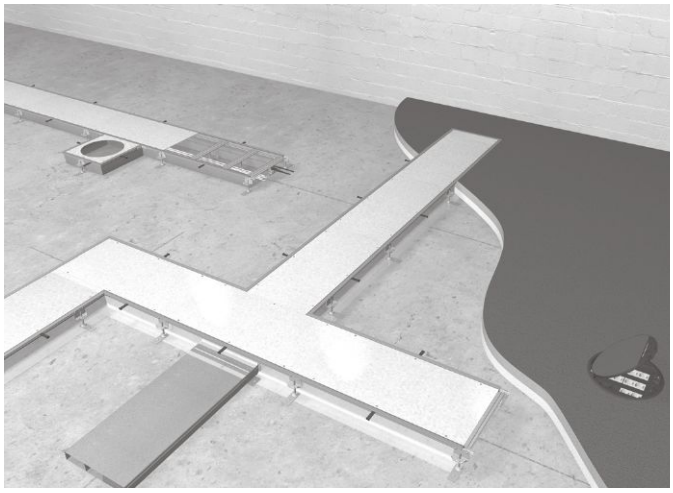
Technical information

Five different types of floor systems are commonly used. Right from the start, the floor system defines the layout and the components to be used. Depending on the system, only certain products can be used. The general concept of the system is fundamentally different depending on whether it is a screed-embedded trunking system as is commonly used in new buildings or a floor-mounted trunking system as is often used in refurbishing projects. Individual solutions and combination options are available for each specific system.



Underfloor trunking system

The screed-embedded underfloor trunking system can be used with any kind of screed such as cement screed, floating screed, flowing screed, or, if special provisions are made, hot screed/mastic asphalt. Screed-embedded trunking can be used in residential and in commercial buildings.

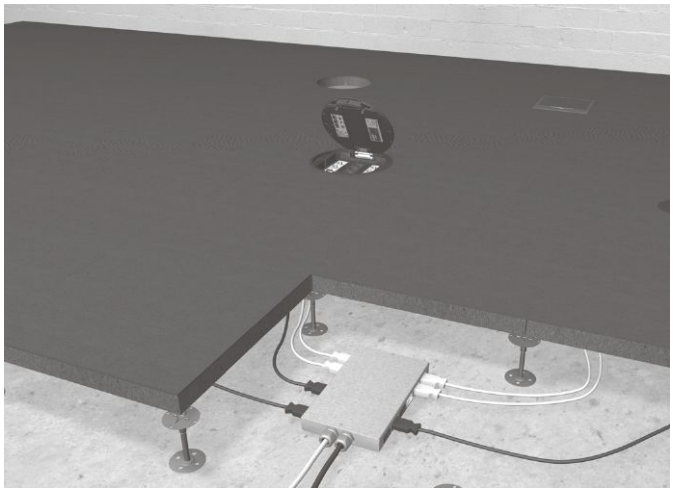


Flush-floor trunking system

This system is variable in height and is used wherever the final height of screed and flooring is not yet certain or in cases where a maximum of flexibility is to be retained. Thanks to their width of up to 600 mm, these trunkings are used where a high number of lines is required. This variant, which achieves a flush finish with the screed surface, is used in bare production hall designs, but also in office and administration buildings where the cover of the trunking system is covered with bonded flooring. Due to its low height, the trunking system can be installed in screeds with very low profiles starting from 30 mm.

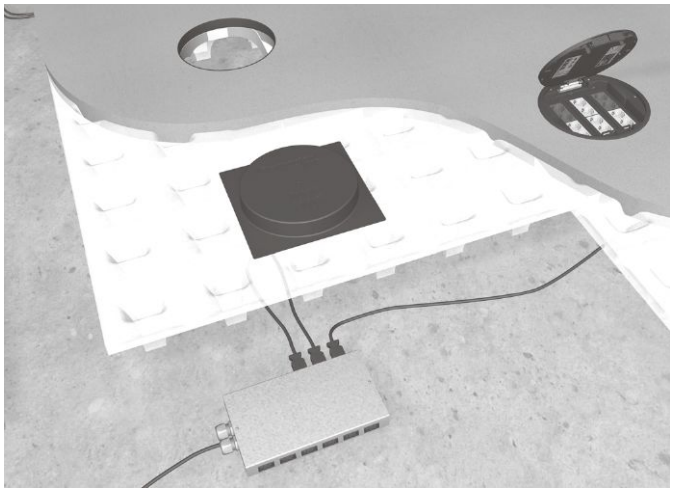
Floor-mounted trunking system

This trunking system is particularly well suited to building refurbishing projects or to building installation upgrades and expansions.
The system is mainly used when modernising office and administration buildings or for construction projects where the electrical systems need to be installed quickly on the already finished floor.
If the building structure does not permit the installation of underfloor trunking due to structural reasons or if the building is listed and subject to a preservation order, floor-mounted trunking can be installed on top of the finished floor. Thanks to its robustness, floor-mounted trunking can also be used in assembly shops, laboratories or industrial buildings.



Double floor / Cavity floor

This flexible solution is indispensable for all open-plan offices or call centres with large floor spaces that are subdivided with partition walls into a large number of smaller computer workplaces but which need to retain the option of restructuring the floor plan.
The same applies to computer server rooms fitted with double floors which offer maximum flexibility thanks to their design. In showrooms or exhibition stands that are regularly redesigned to specific requirements, fully-networked power and data networks can be integrated in this way.

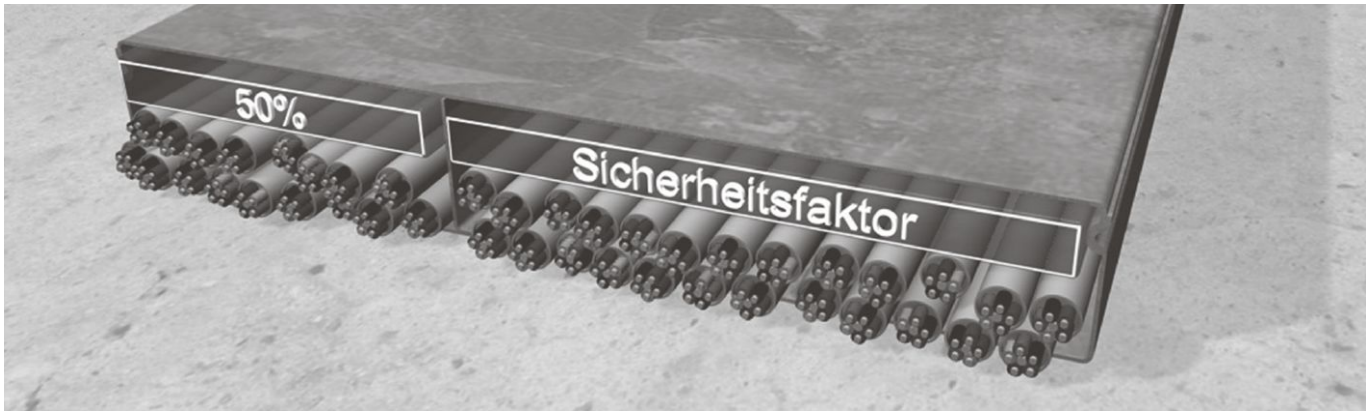


Cavity floor

Cavity floors are made by laying prefabricated Styrofoam or plastic shells onto the bare floor which are then covered with screed. Unlike the double floor, where individual plates can be replaced as needed, the cavity floor is an enclosed screed slab mounted on supports. Similar to a double floor, wiring can be installed in a very flexible manner using 'plug-n-play' systems.

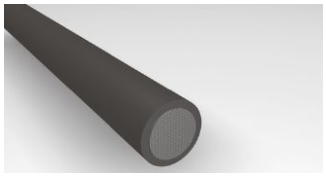
The line volume must be known in order to define the correct trunking size. In practice, lines never run perfectly in parallel and side-by-side in a way that would ensure maximum space utilisation. This is why the formula $(d)^2$, i.e. the diameter squared, must be applied. To ensure sufficient space for possible later retrofitting, trunking ducts should only be filled to 50% of their volume. This also makes it easier to pull the lines into the trunking. Also, it must be noted that the calculation does not take into account bottom troughs and outlets that possibly interrupt the line path. In practice, power lines and data lines are routed separately in the trunking. Partition walls separate the trunking into several compartments. If this applies to your installation, then calculate the volume required for each compartment separately.
The line volume configurator provided at www.hager.de will help you make the necessary calculations.

The values calculated are for guide purposes only. Heat dissipation caused by lines carrying high currents must be taken into account. Compliance with all applicable regulations such as DIN VDE 0100 must be ensured.



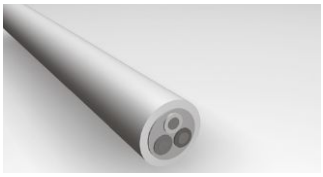
Overview of the most common line types including diameters and space requirements:

High-voltage cable



Cable type	Diameter mm	Space required cm²
1 x 10	10.5	1.10
1 x 16	11.5	1.32
1 x 25	12.5	1.56
1 x 35	13.5	1.82
1 x 50	15.5	2.40
1 x 70	16.5	2.72
1 x 95	18.5	3.42
1 x 120	20.5	4.20
1 x 150	22.5	5.06
3 x 1.5	11.5	1.32
3 x 2.5	12.5	1.56
3 x 10	17.5	3.06
3 x 16	19.5	3.80
3 x 50	26.0	6.76
3 x 70	30.0	9.00
3 x 120	36.0	12.96
4 x 1.5	12.5	1.56
4 x 2.5	13.5	1.82
4 x 6	16.5	2.72
4 x 10	18.5	3.42
4 x 16	21.5	4.62
4 x 25	25.5	6.50
4 x 35	28.0	7.84
4 x 50	30.0	9.00
4 x 70	34.0	11.56
4 x 95	39.0	15.21
4 x 120	42.0	17.64
4 x 150	47.0	22.00
5 x 1.5	13.5	1.82
5 x 2.5	14.5	2.10
5 x 6	18.5	3.42
5 x 10	20.5	4.20
5 x 16	22.5	5.06
5 x 25	27.5	7.56
5 x 35	34.0	11.56
5 x 50	40.0	16.00

High-voltage cable



Cable type	Diameter mm	Space required cm²
1 x 4	6.5	0.42
1 x 6	7.0	0.49
1 x 10	8.0	0.64
1 x 16	9.5	0.90
1 x 25	12.5	1.56
3 x 1.5	9.1	0.83
3 x 2.5	10.4	1.08
3 x 4	11.0	1.21
4 x 1.5	9.0	0.81
4 x 2.5	10.5	1.10
4 x 4	12.5	1.56
4 x 6	13.5	1.82
4 x 10	16.5	2.72
4 x 16	19.0	3.61
4 x 25	23.5	5.52
4 x 35	26.0	6.76
5 x 1.5	10.8	1.17
5 x 2.5	12.2	1.49
5 x 4	13.5	1.82
5 x 6	14.5	2.10
5 x 10	18.0	3.24

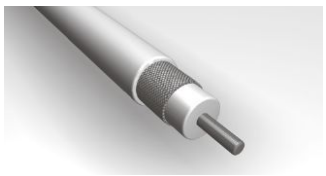
Telecommunication line

Cable type	Diameter mm	Space required cm²
2 x 2 x 0.6	5.0	0.25
4 x 2 x 0.6	6.9	0.48
6 x 2 x 0.6	7.2	0.52
10 x 2 x 0.6	7.5	0.56
20 x 2 x 0.6	9.0	0.81
40 x 2 x 0.6	11.0	1.12
60 x 2 x 0.6	13.0	1.69
100 x 2 x 0.6	17.0	2.89
200 x 2 x 0.6	23.0	5.29
2 x 2 x 0.8	6.0	0.36
4 x 2 x 0.8	7.0	0.49
6 x 2 x 0.8	8.5	0.72
10 x 2 x 0.8	9.5	0.90
20 x 2 x 0.8	13.0	1.69
40 x 2 x 0.8	16.5	2.72
60 x 2 x 0.8	20.0	4.00
100 x 2 x 0.8	25.5	6.50
200 x 2 x 0.8	32.0	10.24

Data line

Cable type	Diameter mm	Space required cm²
CAT 5	8.2	0.67
CAT 6	8.2	0.67

Coaxial line



Cable type	Diameter mm	Space required cm²
RG-59	6.5	0.42
10Base5	12.5	1.56

Preparation

The screed must be fully cured before installation. Flooring that becomes detached from the screed constitutes a trip hazard.
Use a butt joint cover to eliminate trip hazards. Follow the relevant health and safety guidelines in the workplace that apply in your country.
In Germany, you must ensure compliance with section 4.9 "Safety regulations for office workplaces" of the Administration Professional Liability Insurers Association. In this case, and if the carpet frays significantly, we recommend the installation of a butt joint cover.
Note: The company laying the flooring is responsible for cutting and laying the flooring accurately at the exit points of the trunking system (VOB Part C/DIN 18365).
Trunking covers made of wood materials must be treated on both sides, as otherwise the trunking covers may warp.
If flooring is bonded on one side only, we recommend the use of double-sided adhesive carpet tape.

Covering butt edge / connection of flooring at flush floor trunking system:

The blank trunking covers need to be lifted off before the flooring can be laid.
A plastic PVC profile is installed at the factory in the left side and right side profile of the trunking.
The plastic profile can be fitted flush (bonded over) or raised (visible) as a covering butt joint edge.

Flush covering butt joint edge (0 mm protrusion):

This type of installation is recommended if the trunking covers are rarely lifted. This is not suitable for fraying carpets. We recommend using a butt joint cover. Insert the plastic profile in a flush position inside the trunking side profile and bond it in place. After the bond has cured, lay the carpet over the trunking and cut off the flooring on the inside of the plastic profile. Do not damage the plastic profile. The cut-off carpet should be used for covering the blank trunking covers. In the case of hard flooring such as wood or tiles the flooring should be worked up to the inside of the PVC profile. An appropriate expansion joint must be provided.

Raised covering butt joint edge (4 mm protrusion, also available in 3.2 mm as an option):

This type of installation is recommended if the trunking covers will be lifted frequently. This is not suitable for fraying carpets. We recommend using a butt joint cover. Remove the plastic profile from the trunking side profile. Lay the carpet over the trunking, cut off the flooring on the inside of the trunking side profile. The cut-off carpet should be used for covering the blank trunking covers. Insert the plastic profile in the trunking side profile in a raised position and bond it in place. A PVC flooring can be welded to the butt edge. In the case of hard flooring such as wood or tiles the flooring should be worked up to the inside of the PVC profile. An appropriate expansion joint must be provided.

Concealed screw heads (rare lifting of trunking covers):

Set clean trunking covers with the countersunk side facing upwards into the trunking and screw in the fastening screws.
Cover and bond each trunking cover with flooring. Take care to observe the direction of the web of the carpet.
(Attention: Before you open the trunking cover, detach the flooring from the trunking cover to gain access to the fastening screws.)

Visible screw heads (frequent lifting of trunking covers):

Bond the flooring to the non-countersunk side of the clean trunking cover.
Take care to observe the direction of the web of the carpet. Place the trunking cover into the trunking. Screw the fastening screws of the trunking cover through the carpet into the trunking side profile. The web of the carpet covers and conceals the screw heads.

Butt joint cover / connection of flooring to flush floor trunking system:

The use of a butt joint cover is recommended for easily fraying carpet. Items are supplied loose in sections of 2.4 meters. The blank trunking covers need to be lifted off before the flooring can be laid. A plastic PVC profile is installed at the factory in the left side and right side profile of the trunking. Remove the plastic profile from the trunking side profile. Lay the carpet over the trunking, cut off the flooring on the inside of the trunking side profile. The cut-off carpet should be used for covering the blank trunking covers. In the case of hard flooring such as wood or tiles the flooring should be worked up to the inside of the PVC profile. An appropriate expansion joint has to be considered. Press the butt joint cover into the slot between the blank trunking covers and the trunking side profile. Do not pull the butt joint cover in a lengthwise direction.

Floor boxes and installation openings in trunking covers:

Remove the factory-installed protective cover. In the case of universal junction boxes the protective cover must be exchanged against a fitting frame UDM2 or UDM3 (to be ordered separately) in accordance with the size of the service unit or cover. In the case of device casings and installation openings a fitting frame is not necessary as the device boxes and installation openings can directly accommodate service units and covers of the corresponding size.

Service units or covers with flooring frame:

Lay the carpet over the respective installation opening and cut off at the inside of the installation opening. In the case of hard flooring such as wood or tiles an appropriate expansion joint to the installation opening must be provided.

Service units or covers with carpet edge:

Lay the carpet over the respective installation opening and cut off approx. 3 mm larger than the inside of the installation opening. In the case of hard flooring such as wood or tiles the service unit must be installed before laying the flooring. An appropriate expansion joint must be provided.

Cutting out the flooring:

The cut-out carpet should be used to cover relevant cover of the service unit or cover to be used. Templates for carpets for cutting the flooring of the respective lid must be ordered separately. When covering the lids with carpet take care to observe the direction of the web of the carpet. In the case of hard flooring an appropriate expansion joint in the lid must be provided.

General instructions:

When levelled to the required screed height, the trunking system must not be subjected to loads, be walked on or opened before the screed has cured to the required strength. In the case of covers with snap fastenings, the screws securing the cover must not be removed until the screed has been cured. Flush floor trunking and junction boxes must be levelled to the correct height before the screed is laid (meter rules provided by the customer). The person laying the screed must verify the levelling height. Carefully lay the screed against the flush floor trunkings and junction boxes and compact it to ensure that the required load-bearing capacity is achieved. All trunking openings that are larger than the screed aggregate used must be sealed.

Flowing screed:
Before the screed is applied, the trunking and junction boxes must be weighted down to prevent them floating up. Trunking and junction boxes must be protected against screed ingress by the customer. Sufficient screed must run under the side profiles and against the film. Cavities must be avoided.

Aggressive screeds:
The customer must insulate all metal parts coming into contact with the screed using a chloride-free and alkali-free bitumen coating or other suitable measures (VOB Part C).

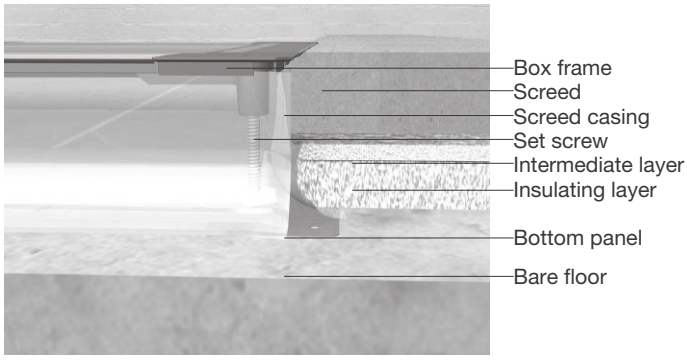
Corrosion:
The corrosion on metal underfloor components can be reduced to a minimum if the maximum moisture content of the screed (in accordance with DIN 4725 part 4) is observed. Trunkings must be sufficiently ventilated for drying.

Hot screed:
Flush floor trunking and junction boxes must not come into direct contact with hot screeding compound. In the case of screed casing, an approx. 10 cm wide layer must be worked up to the components for thermal insulation, e.g. cement screed. Metal casing and trunking bottoms must be thermally insulated, e.g. with bituminous corrugated board. Screed-embedded trunkings should be covered with 2 to 3 layers of bituminous corrugated board. Avoid any cavities!
Hager will not be liable for any damage caused by incorrect installation on the trunking system or the junction boxes in conjunction with hot screed.

Expansion pressure of the screed slab:
The screed may expand during the curing phase and press against the trunking and the junction box. This depends on the size of the screed slab and the composition of the screed. Following recommendations by screed companies, we offer a true-to-size self-adhesive soft rubber strip that can be fixed at the upper part of the profile so that the expansion pressure of the screed slab onto the trunking is minimised.
The decision about the use of soft rubber strip has to be coordinated with the screed layer.

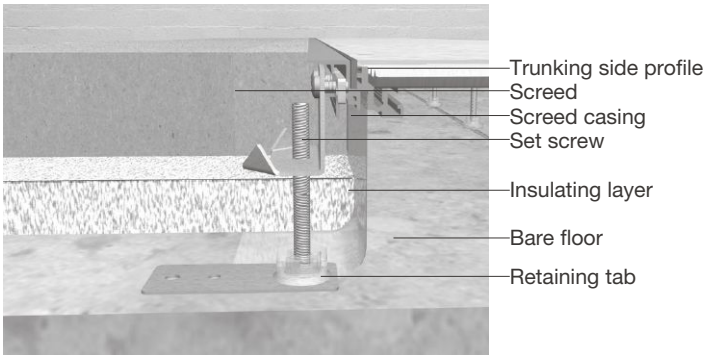
Footfall sound insulation and screed casing:

Junction boxes



It is essential that the footfall sound insulation mat is brought up to the screed casing of the flush floor trunking and junction box.

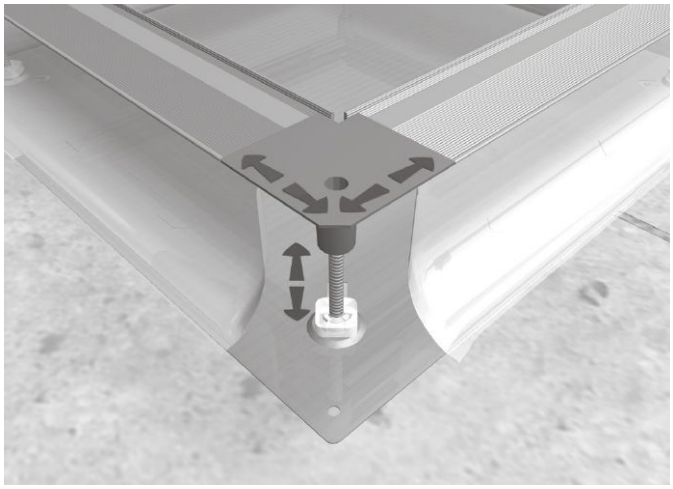
Flush floor trunking



Metal conductive sound bridges from the flush floor trunking to the bare floor or from the junction boxes with screed casing to the bare floor must be avoided.

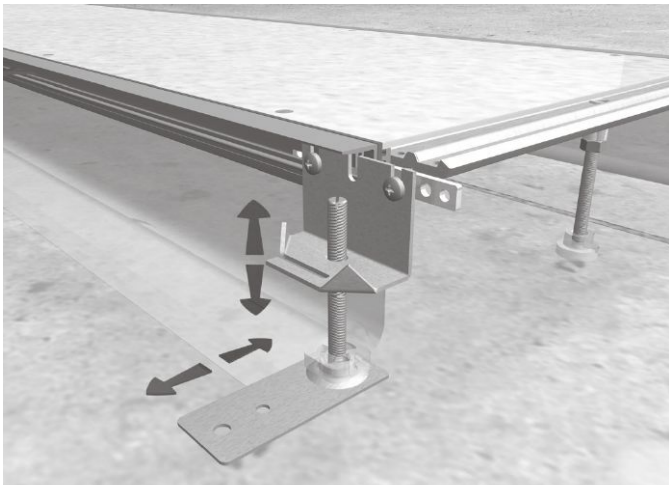
Flexible system suspension:

Junction boxes



The flexible system suspension allows the top part of the junction box or flush floor trunking to follow the movement of the screed slab.

Flush floor trunking



To prevent cracking, rigid joints between the flush floor trunking or junction box and the bare floor must be avoided.

Mechanical load:
The trunking system, junction boxes and service units are manufactured to the technical requirements of DIN EN 50085 and DIN EN 60670. Flush-mounted floor components have a load-bearing capacity of 1,500 N. Slight sagging is permissible.

Installation:
When installing underfloor trunking systems the different expansion and shrinkage behaviours of the adjoining materials (screed, floorings) must be observed. Suitable measures must be taken to protect the underfloor trunking system against these movements (variation of volume). To prevent cracks in thin floorings (stone, tiles), it must be verified that the flooring is suitable for the application.

Safety measures, equipotential bonding:
Underfloor trunking systems, installation units and accessories made of metal and the metal parts of composite items must be included in the safety measures in accordance with DIN VDE 0100. The connections between the components can be considered to be sufficiently conductive if the connection points are either welded, soldered, riveted, bolted or if bare metallic surfaces are joined under pressure. Expansion joints made at the building site must be connected by flexible lines to ensure equipotential bonding. The protective conductor terminal must accommodate the required number of conductors of a rated cross-section of 1.5 to 4 mm^2. The protective conductor connection may be waived for inactive metal parts such as screws, rivets, type plates if these parts are very small or located in positions where they cannot be grasped or do not provide a large contact surface.

Soundproofing:
Soundproofing in buildings is defined in DIN 4109. The transmission of sound inside trunking systems can be restricted through the use of suitable soundproofing materials on site. Fire safety regulations must be observed when selecting the soundproofing materials. The transmission of structure-borne sound through ceilings caused by footsteps can be reduced through the use of screed-covered trunking with soundproofing mats. Flush floor trunking systems from Hager are available with soundproofing mounts on request. The soundproofing mounts reduce the transmission of structure-borne sound through the ceiling.

Fire protection:
General statements pertaining to fire safety are outlined in DIN 4102. Cable bulkheads with cable bushings must comply with the DIN specifications and must be certified. Special regulations are contained in the fire protection ordinances applicable on site.

Dimensions:
General tolerances of dimensions provided for metal parts are based on DIN 2768 part 1 (medium). General tolerances of dimensions provided for plastic parts are based on DIN 16901.

Further standards, directives and regulations:
Installation and operation of underfloor electrical installations must comply with the requirements of the following DIN standards, VDE statuary requirements and regulations in their latest issue.

- DIN EN 60670-1 and -23 (Underfloor electrical installation - built-in units)
- DIN EN 50085-1 and -2-2 (Underfloor electrical installation - trunkings and accessories)
- DIN VDE 0100 (especially part 520)
- DIN VDE 0105
- DIN VDE 0107
- DIN VDE 0108 (see annex 1 of part 1)
- DIN VDE 0298
- DIN VDE 0800
- DIN 31000/VDE 01000
- FTZ directive 731TR1
- TAB (Technical connection conditions) of the utility provider responsible
- BGV A2 (Electrical plants and devices)
- AVB Elt. V (General conditions for power supply to tariff customers)
- VOB (Service regulations for construction services)
- Safe design of passages, floors and stairs
- Directive: Construction and equipment of schools
- Directive on fire safety, form 2013 (Vds)

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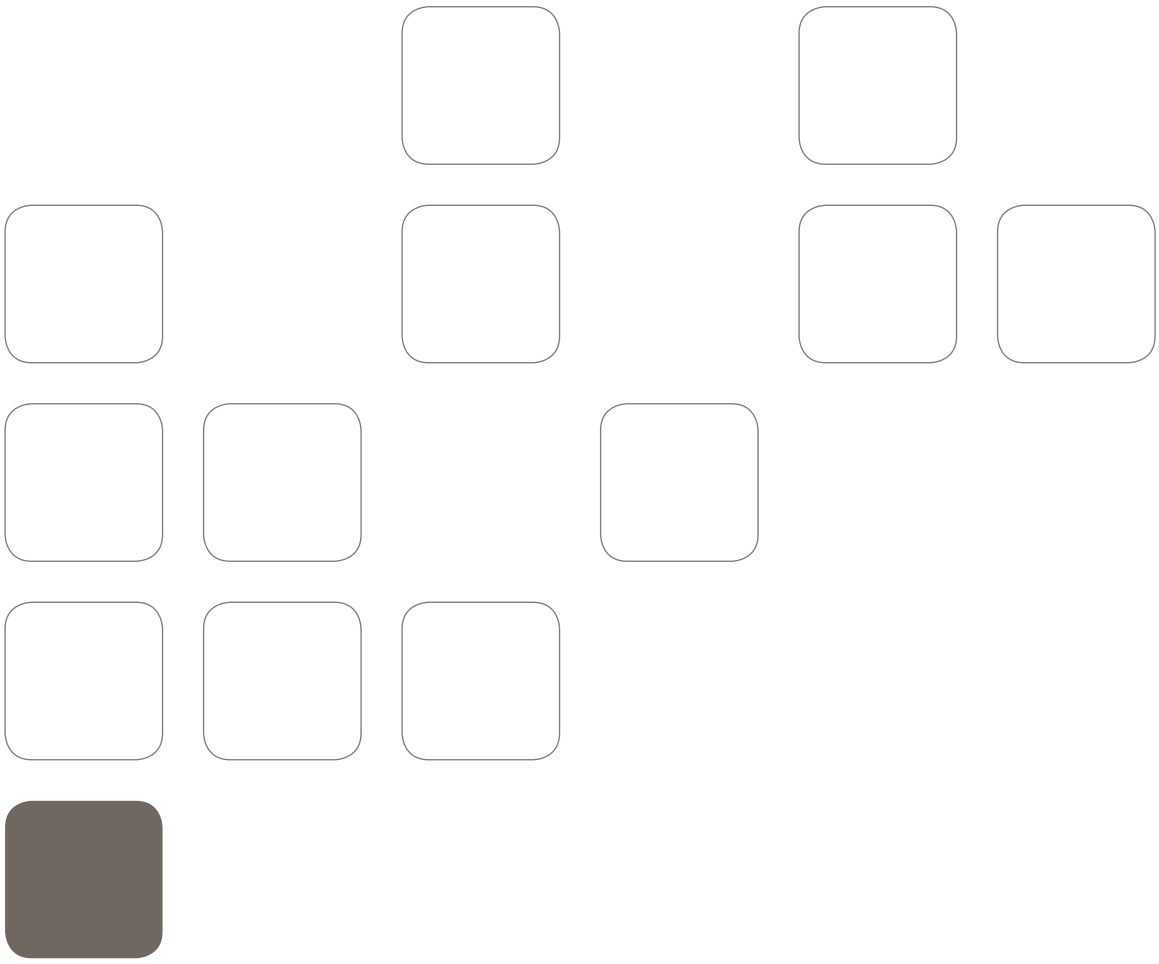

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