Screed-covered trunking systems

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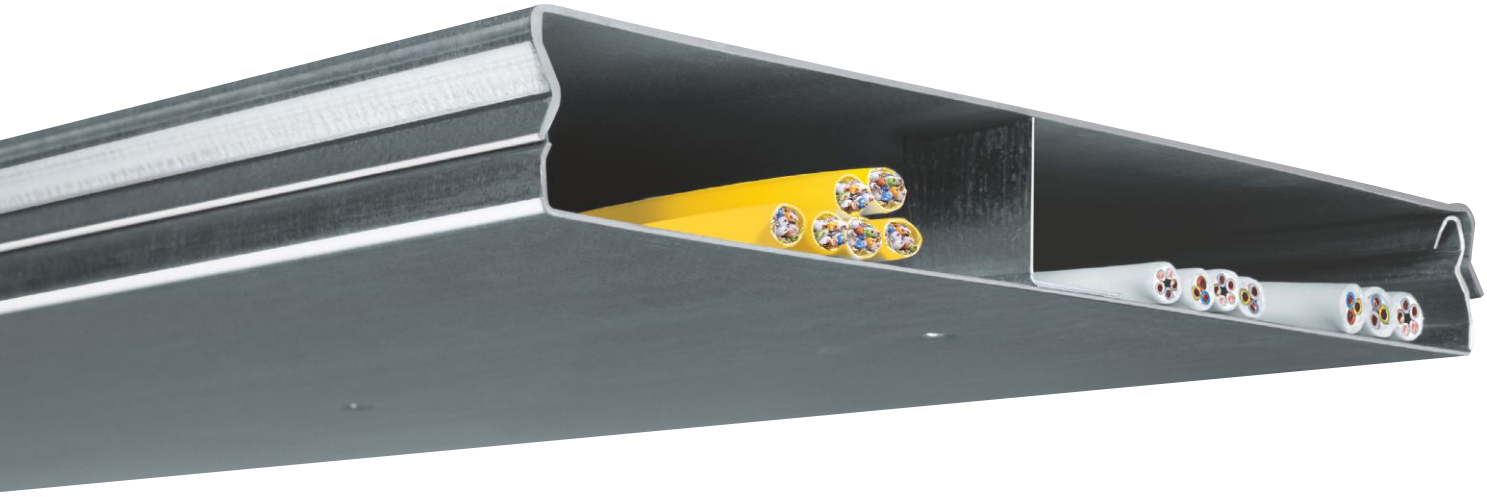
The quick installation system for every application
The flexible solution for all types of screed delivers impressive and practical installation advantages: Pre-assembled underfloor trunking enables quick and easy installation at the construction site, and the snapped-on trunking covers can easily be 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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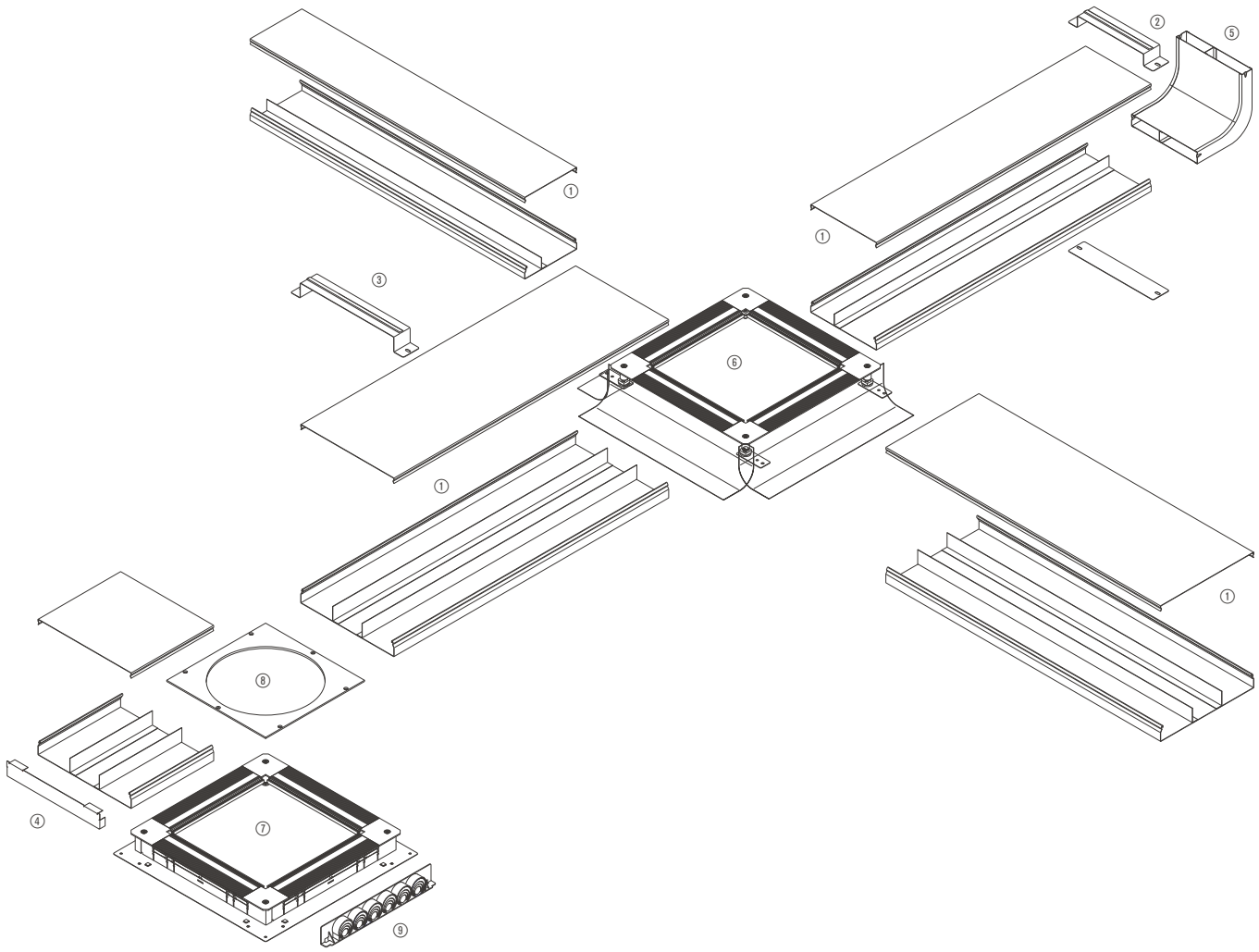

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① Basic profile comprising Upper and lower part

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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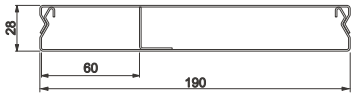
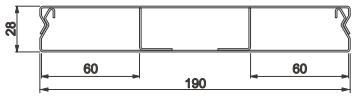
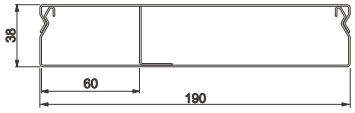
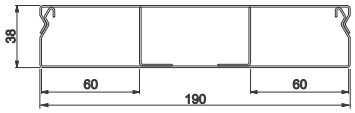
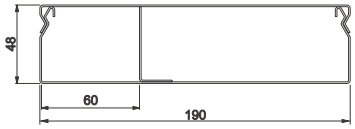
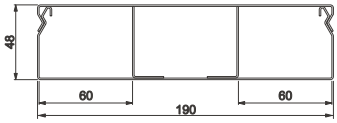
Screed-covered trunking system, trunking width 190 mm

- 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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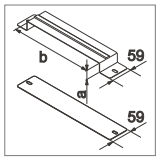


Clamp
Sheet metal

UKS190280
PU 20 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKS190280
PU 20 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKS190380
PU 20 pc

Dim. a = 38 mm
Dim. b = 190 mm

UKS190380
PU 20 pc

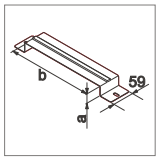
Dim. a = 38 mm
Dim. b = 190 mm

UKS190480
PU 20 pc

Dim. a = 48 mm
Dim. b = 190 mm

UKS190480
PU 20 pc

Dim. a = 48 mm
Dim. b = 190 mm



Bracket
Sheet metal

UKB190280
PU 20 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKB190280
PU 20 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKB190380
PU 20 pc

Dim. a = 38 mm
Dim. b = 190 mm

UKB190380
PU 20 pc

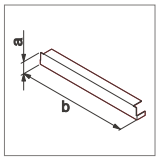
Dim. a = 38 mm
Dim. b = 190 mm

UKB190480
PU 20 pc

Dim. a = 48 mm
Dim. b = 190 mm

UKB190480
PU 20 pc

Dim. a = 48 mm
Dim. b = 190 mm



End bracket
Sheet metal

UKE190280
PU 20 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKE190280
PU 20 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKE190380
PU 20 pc

Dim. a = 38 mm
Dim. b = 190 mm

UKE190380
PU 20 pc

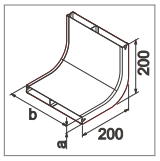
Dim. a = 38 mm
Dim. b = 190 mm

UKE190480
PU 20 pc

Dim. a = 48 mm
Dim. b = 190 mm

UKE190480
PU 20 pc

Dim. a = 48 mm
Dim. b = 190 mm



Vertical elbow
Sheet metal

UKK190282
PU 1 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKK190283
PU 1 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKK190382
PU 1 pc

Dim. a = 38 mm
Dim. b = 190 mm

UKK190383
PU 1 pc

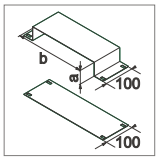
Dim. a = 38 mm
Dim. b = 190 mm

UKK190482
PU 1 pc

Dim. a = 48 mm
Dim. b = 190 mm

UKK190483
PU 1 pc

Dim. a = 48 mm
Dim. b = 190 mm



Expansion bushing
Sheet metal

UKM190280
PU 20 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKM190280
PU 20 pc

Dim. a = 28 mm
Dim. b = 190 mm

UKM190380
PU 20 pc

Dim. a = 38 mm
Dim. b = 190 mm

UKM190380
PU 20 pc

Dim. a = 38 mm
Dim. b = 190 mm

UKM190480
PU 20 pc

Dim. a = 48 mm
Dim. b = 190 mm

UKM190480
PU 20 pc

Dim. a = 48 mm
Dim. b = 190 mm

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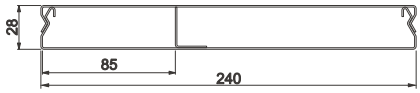
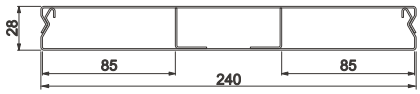
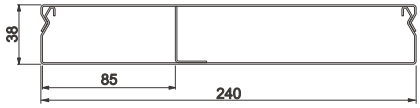
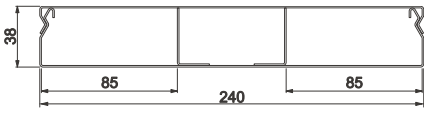
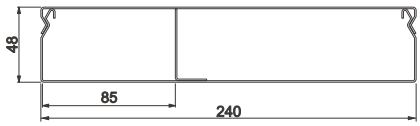
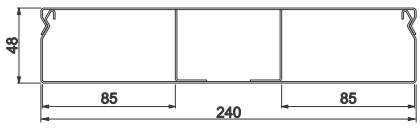
Screed-covered trunking system, trunking width 240 mm

- 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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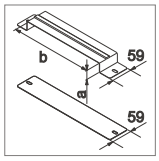


Clamp
Sheet metal

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

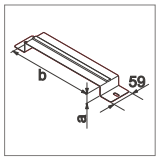
Dim. a = 38 mm
Dim. b = 240 mm

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

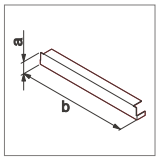
Dim. a = 38 mm
Dim. b = 240 mm

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

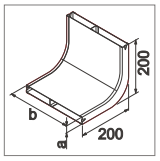
Dim. a = 38 mm
Dim. b = 240 mm

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

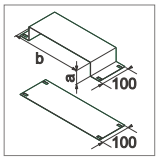
Dim. a = 38 mm
Dim. b = 240 mm

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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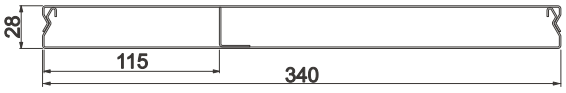
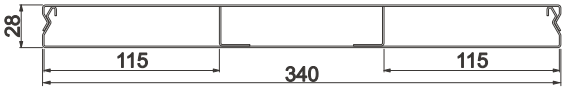
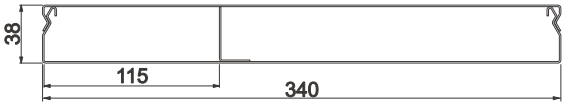
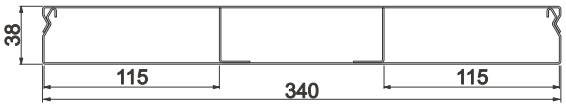
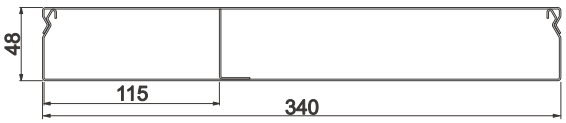
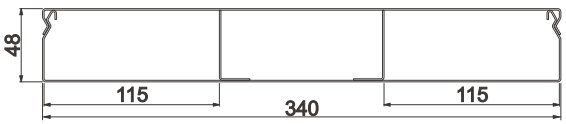
Screed-covered trunking system, trunking width 340 mm

- 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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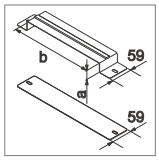
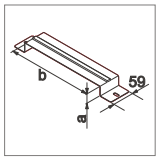
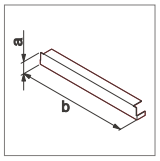


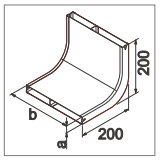
Clamp
Sheet metal



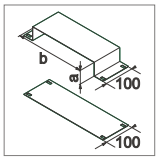
Bracket
Sheet metal



End bracket
Sheet metal



Vertical elbow
Sheet metal



Expansion bushing
Sheet metal

UKS340280 PU 20 pc	**UKB340280** PU 20 pc	**UKE340280** PU 20 pc	**UKK340282** PU 1 pc	**UKM340280** PU 20 pc
Dim. a = 28 mm Dim. b = 340 mm	Dim. a = 28 mm Dim. b = 340 mm	Dim. a = 28 mm Dim. b = 340 mm	Dim. a = 28 mm Dim. b = 340 mm	Dim. a = 28 mm Dim. b = 340 mm
UKS340280 PU 20 pc	**UKB340280** PU 20 pc	**UKE340280** PU 20 pc	**UKK340283** PU 1 pc	**UKM340280** PU 20 pc
Dim. a = 28 mm Dim. b = 340 mm	Dim. a = 28 mm Dim. b = 340 mm	Dim. a = 28 mm Dim. b = 340 mm	Dim. a = 28 mm Dim. b = 340 mm	Dim. a = 28 mm Dim. b = 340 mm
UKS340380 PU 20 pc	**UKB340380** PU 20 pc	**UKE340380** PU 20 pc	**UKK340382** PU 1 pc	**UKM340380** PU 20 pc
Dim. a = 38 mm Dim. b = 340 mm	Dim. a = 38 mm Dim. b = 340 mm	Dim. a = 38 mm Dim. b = 340 mm	Dim. a = 38 mm Dim. b = 340 mm	Dim. a = 38 mm Dim. b = 340 mm
UKS340380 PU 20 pc	**UKB340380** PU 20 pc	**UKE340380** PU 20 pc	**UKK340383** PU 1 pc	**UKM340380** PU 20 pc
Dim. a = 38 mm Dim. b = 340 mm	Dim. a = 38 mm Dim. b = 340 mm	Dim. a = 38 mm Dim. b = 340 mm	Dim. a = 38 mm Dim. b = 340 mm	Dim. a = 38 mm Dim. b = 340 mm
UKS340480 PU 20 pc	**UKB340480** PU 20 pc	**UKE340480** PU 20 pc	**UKK340482** PU 1 pc	**UKM340480** PU 20 pc
Dim. a = 48 mm Dim. b = 340 mm	Dim. a = 48 mm Dim. b = 340 mm	Dim. a = 48 mm Dim. b = 340 mm	Dim. a = 48 mm Dim. b = 340 mm	Dim. a = 48 mm Dim. b = 340 mm
UKS340480 PU 20 pc	**UKB340480** PU 20 pc	**UKE340480** PU 20 pc	**UKK340483** PU 1 pc	**UKM340480** PU 20 pc
Dim. a = 48 mm Dim. b = 340 mm	Dim. a = 48 mm Dim. b = 340 mm	Dim. a = 48 mm Dim. b = 340 mm	Dim. a = 48 mm Dim. b = 340 mm	Dim. a = 48 mm Dim. b = 340 mm

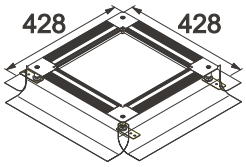
- Underfloor universal junction box in accordance with DIN EN 50085-1 and -2-2
- With internal stepless height adjustment
- With bottom plate and flexible transparent casing for installation in the screed layer
- Connection of underfloor trunking could not be easier – simply cut the foil with scissors 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

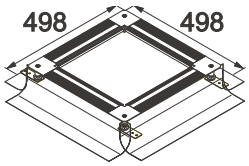


Designation	Height adjustment range [mm]	PU	Order no.
Underfloor box with bottom plate size 2	50-80	8	**UDB2050080**
Underfloor box with bottom plate size 2	75-125	5	**UDB2075125**
Underfloor box with bottom plate size 2	120-170	9	**UDB2120170**
Underfloor box with bottom plate size 2	165-215	5	**UDB2165215**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

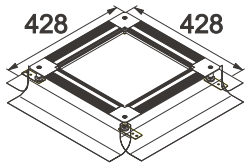
- Underfloor universal junction box in accordance with DIN EN 50085-1 and -2-2
- With internal stepless height adjustment
- With bottom plate and flexible transparent casing for installation in the screed layer
- Connection of underfloor trunking could not be easier – simply cut the foil with scissors 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

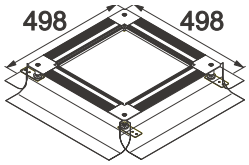


Designation	Height adjustment range [mm]	PU	Order no.
Underfloor box with retaining tabs size 2	50-80	8	**UDH2050080**
Underfloor box with retaining tabs size 2	75-125	5	**UDH2075125**
Underfloor box with retaining tabs size 2	120-170	9	**UDH2120170**
Underfloor box with retaining tabs size 2	165-215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

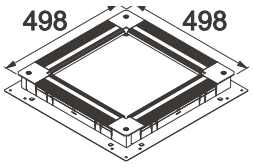
- Underfloor universal junction box in accordance with DIN EN 50085-1 and -2-2
- With internal stepless height adjustment
- With bottom plate and sheet metal casing for installation in the screed layer
- Suitable for the mounting of installation units via a fitting frame (to be ordered separately)
- 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

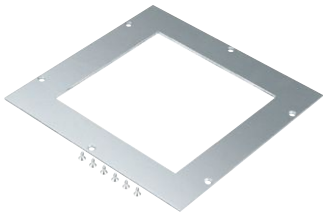


Designation	Height adjustment range [mm]	PU	Order no.
Underfloor box, sheet metal, size 3	70-120	3	**UDS3070120**

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

Material thickness:
4 mm

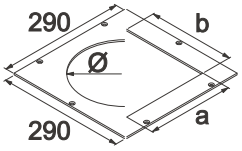
▶ from page 1.15



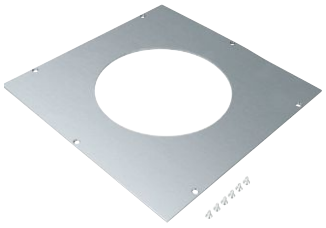
UDM2200Q06

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



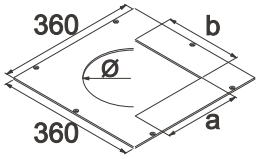
Designation	Ø [mm]	a [mm]	b [mm]	PU	Order no.
Fitting frame for underfloor box size 2 blank				5	**UDM2000BLD**
Fitting frame for underfloor box size 2 with blankings GBZ	50			10	**UDM2050GBZ**
Fitting frame for underfloor box size 2 with blankings E04		147	247	10	**UDM2147E04**
Fitting frame for underfloor 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**



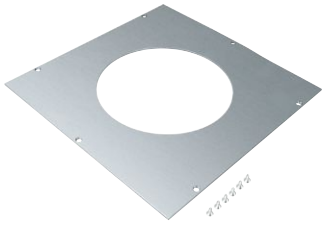
UDM3215R06

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



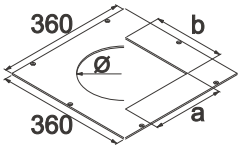
Designation	Ø [mm]	a [mm]	b [mm]	PU	Order no.
Fitting frame for underfloor box size 3 blank				5	**UDM3000BLD**
Fitting frame for underfloor box size 3 with blankings GBZ	50			10	**UDM3050GBZ**
Fitting frame for underfloor box size 3 with blankings E04		147	247	10	**UDM3147E04**
Fitting frame for underfloor 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

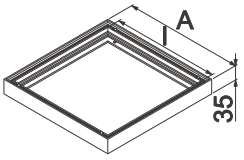


Designation	Ø [mm]	a [mm]	b [mm]	PU	Order no.
Heavy-duty fitting frame with blankings Q06		200	200	1	**UDM3200SLQ06**
Heavy-duty fitting frame with blankings Q12		244	244	1	**UDM3244SLQ12**
Heavy-duty fitting frame with blankings R06	215			1	**UDM3215SLR06**
Heavy-duty fitting frame with blankings R12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



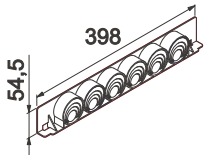
Designation	Outer dimension A [mm]	Internal dimension I [mm]	PU	Order no.
Levelling frame size 2 height 35 mm	296 x 296	290 x 290	1	**UDAR235**
Levelling frame size 3 height 35 mm	366 x 366	360 x 360	1	**UDAR335**

UDS32050RE

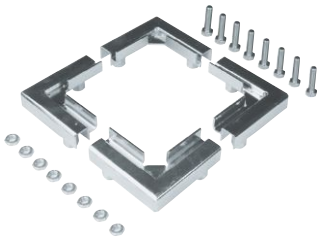
Pipe inlet for universal junction box with bottom plate and sheet metal casing

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

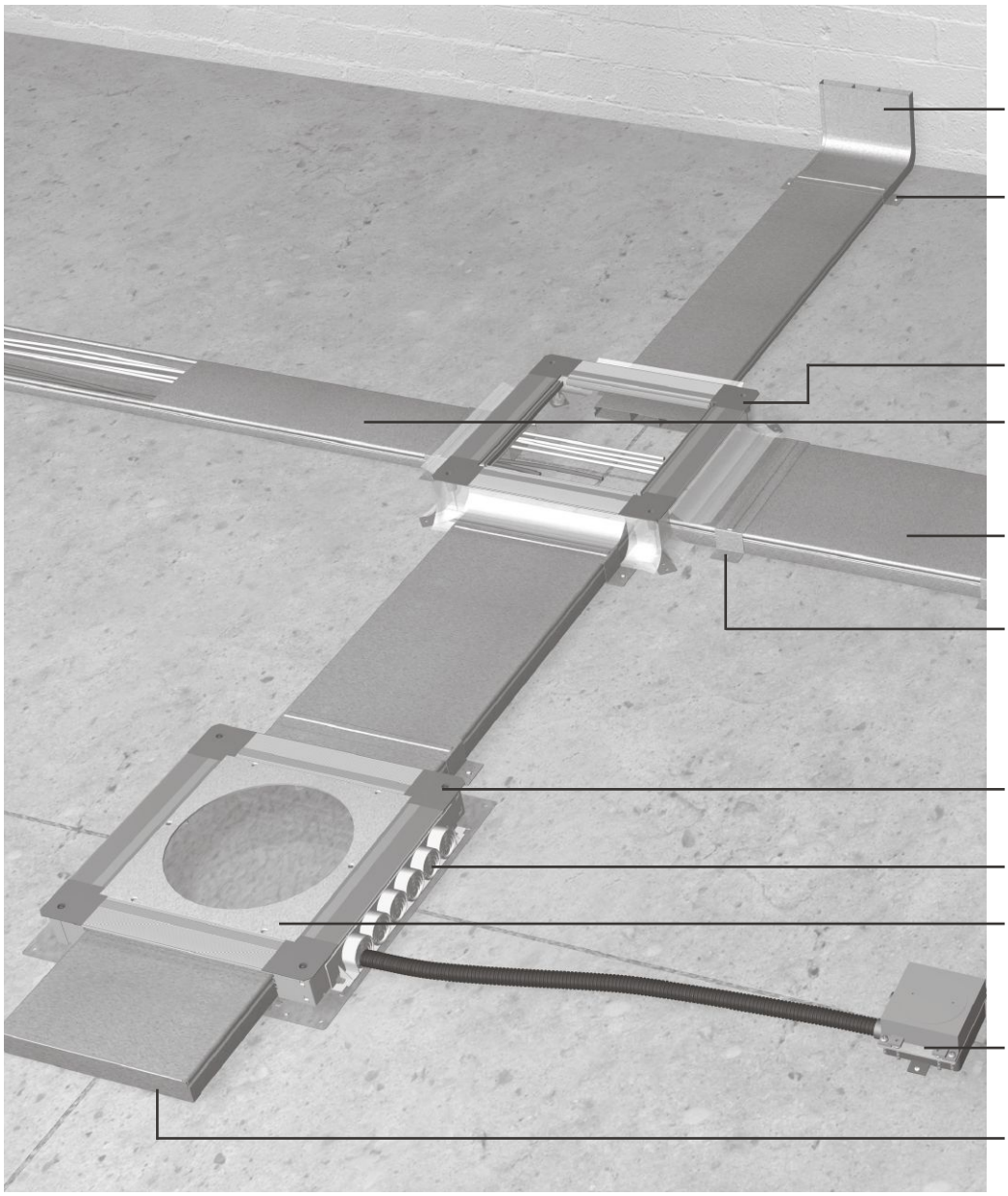
Identifier	Variant	Size	Elevation/pre-stamping	Type
UD = underfloor junction box	W AR = levelling frame S = with sheet metal casing	X 2 = 428 x 428 mm 3 = 498 x 498 mm 2050 = pre-stamping 20 - 32 - 40 - 50 mm	Y 35 = 35 mm	 RE = pipe insert

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

Screed-covered trunking systems

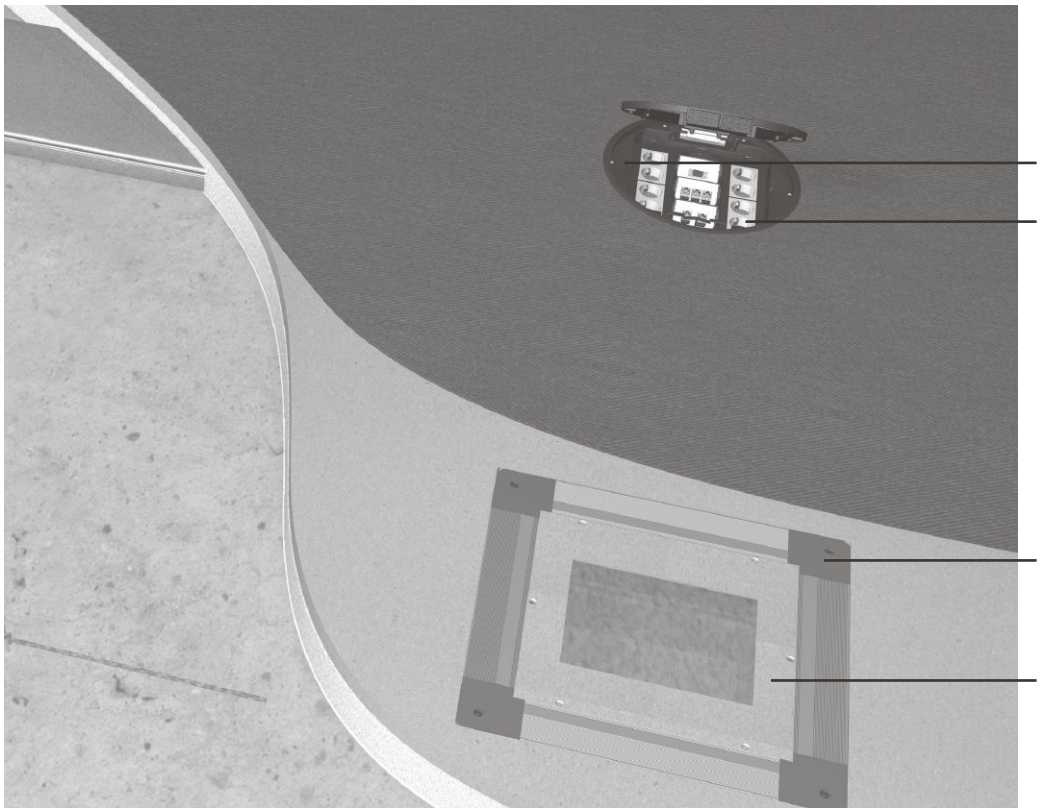


Advantages at a glance

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

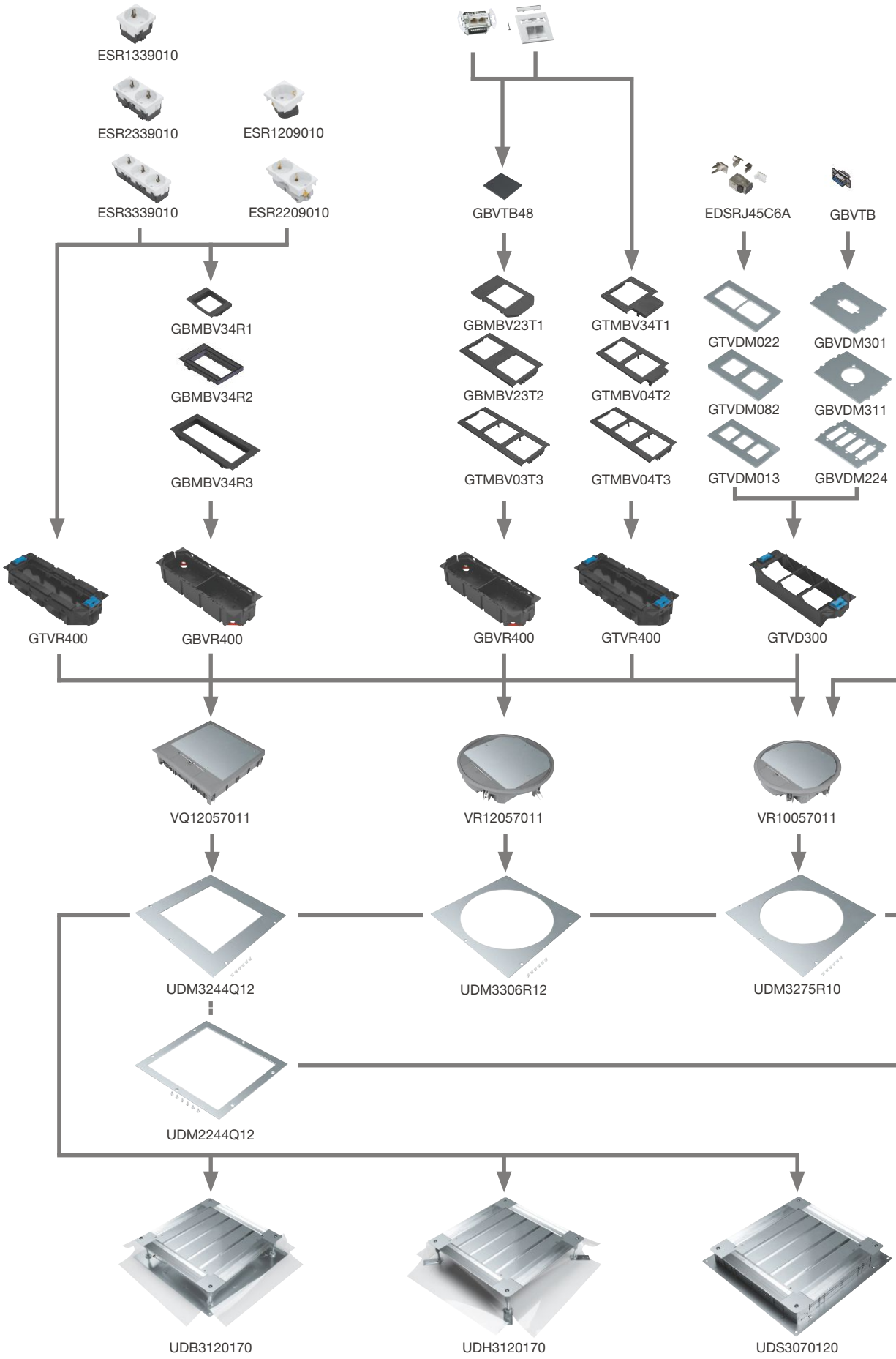
Robust quality
All underfloor trunking and junction boxes are made of galvanised sheet metal in accordance with DIN EN 10327 and are therefore protected against corrosion.

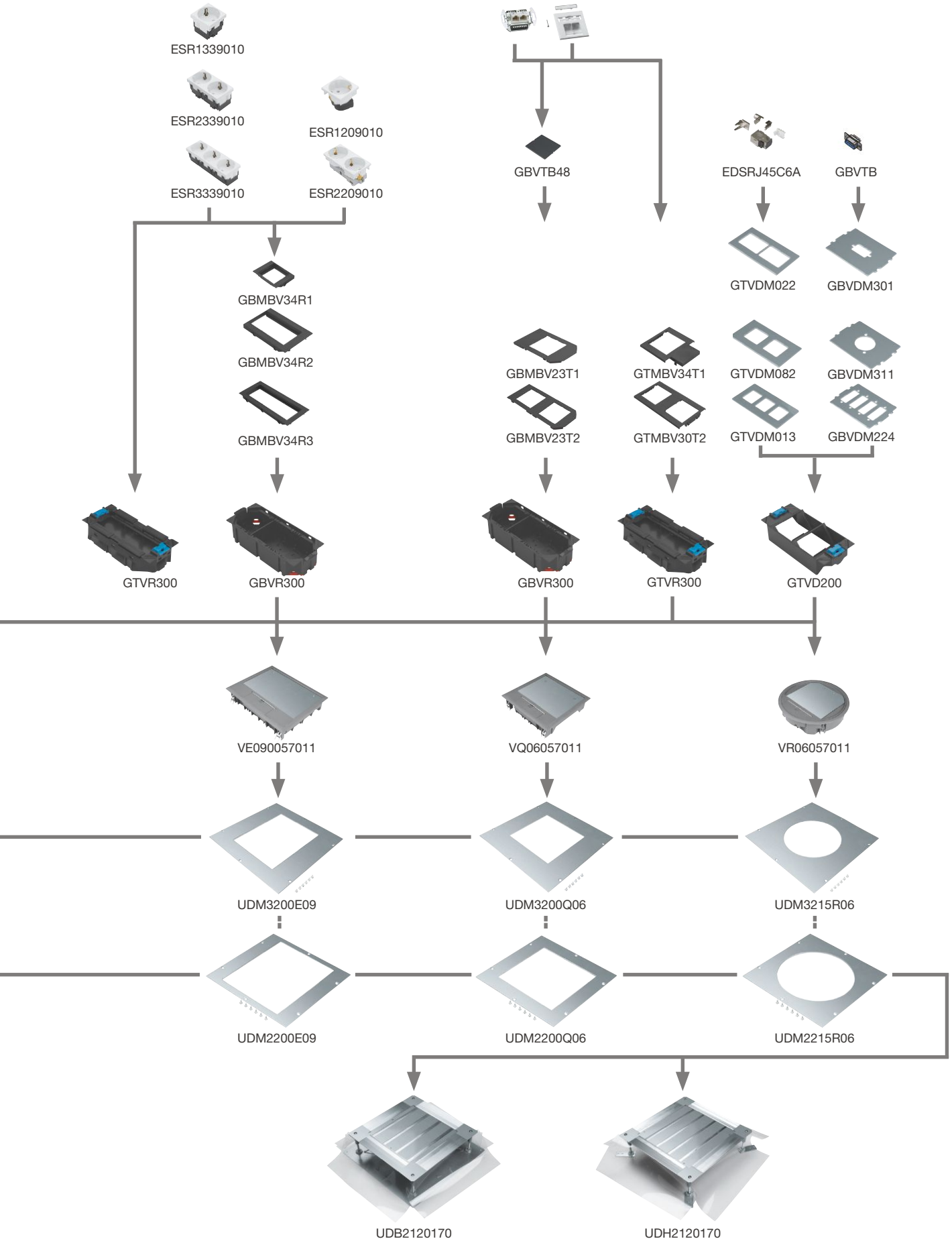
Easy cable routing and installation
The covers of the underfloor trunking are snapped on and can be taken off before the screed is poured. Cables can be placed in the open trunking from above. This means that there is no need for the complicated process of pulling the wiring into the trunking. This facilitates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



electraplan.UK

Selection of a number of possible combinations

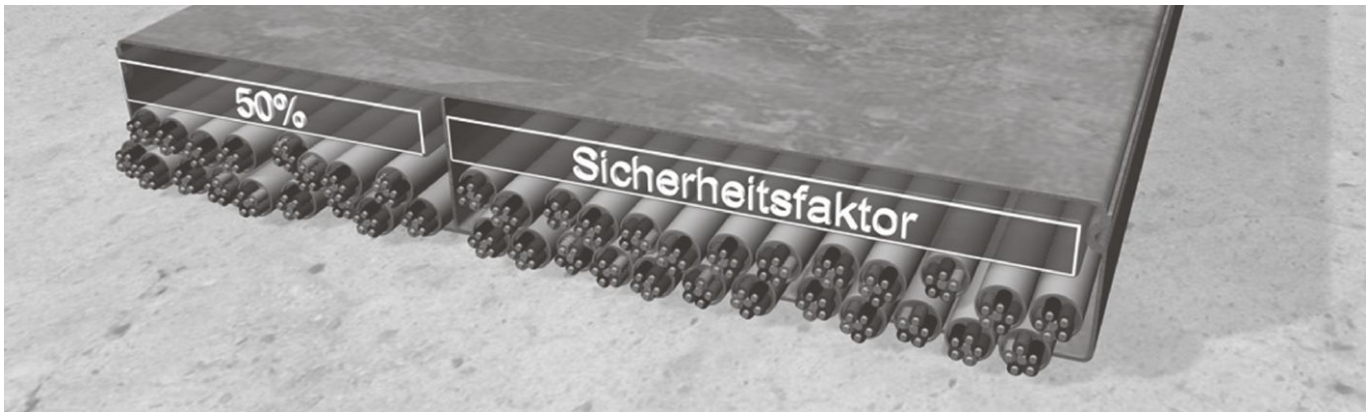



ESR1339010
ESR2339010
ESR1209010
ESR3339010
ESR2209010
GBMBV34R1
GBMBV34R2
GBMBV34R3
GBVTB48
EDSRJ45C6A
GBVTB
GTVDM022
GBVDM301
GBMBV23T1
GTMBV34T1
GTVDM082
GBVDM311
GBMBV23T2
GTMBV30T2
GTVDM013
GBVDM224
GTVR300
GBVR300
GBVR300
GTVR300
GTVD200
VE090057011
VQ06057011
VR06057011
UDM3200E09
UDM3200Q06
UDM3215R06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

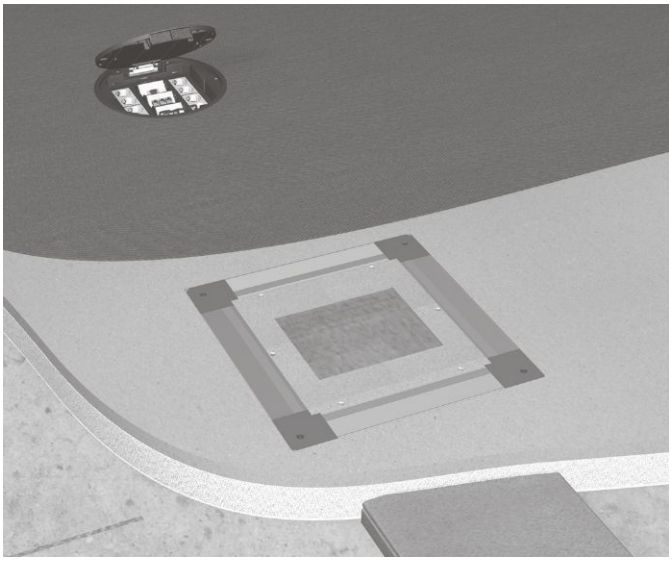
The screed-embedded underfloor trunking system can be used with any kind of screed such as cement screed, floating screed, flowing screed, or, if special provisions are made, hot screed/mastic asphalt. The screed-embedded trunking system is suitable for use in office, administration or exhibition areas,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

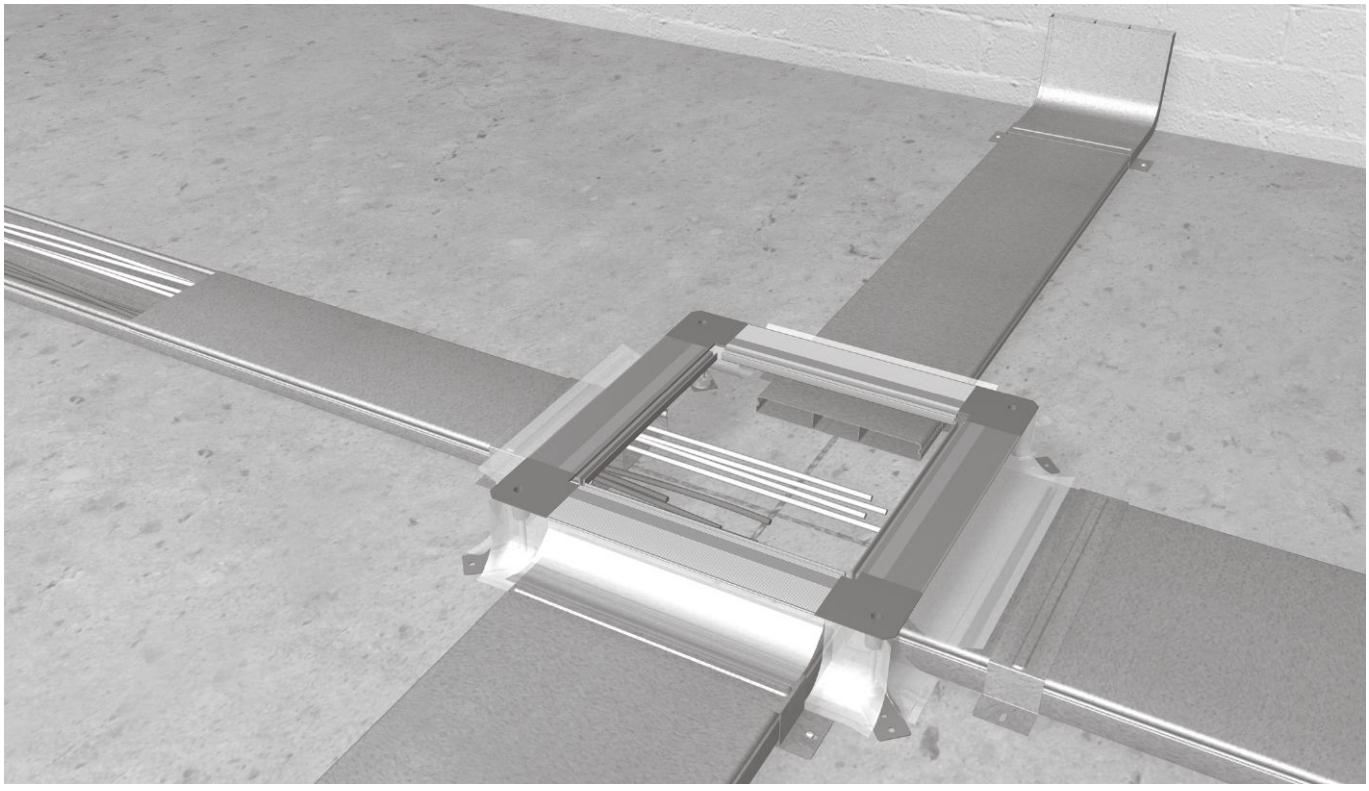
How it works

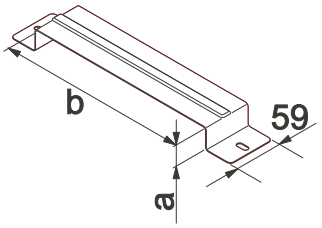
Our probably most widely used underfloor trunking system is very simple yet surprisingly diverse when it comes to potential applications. Junction boxes are connected to each other via underfloor trunkings to form networks. They ensure a structured supply and offer access to energy, data and telecommunication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







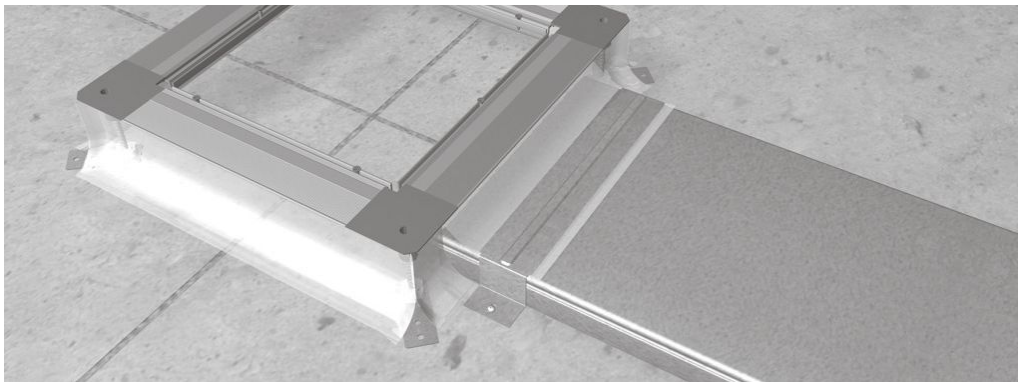
Bracket UKB

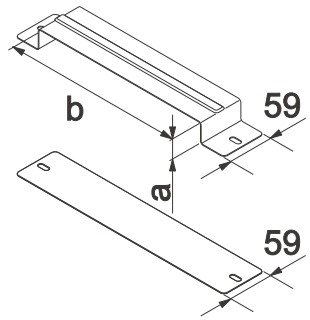
Bracket UKB for fastening the trunking onto the bare floor. One bracket is required for each trunking inlet in junction boxes. Any additional requirements due to local conditions should be calculated and ordered separately.

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



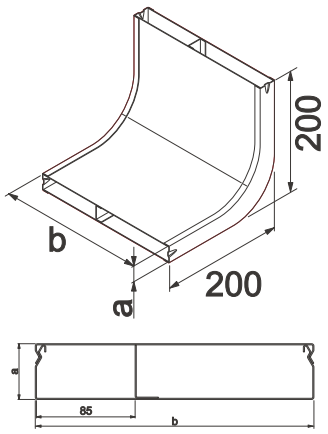


Clamp UKS

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



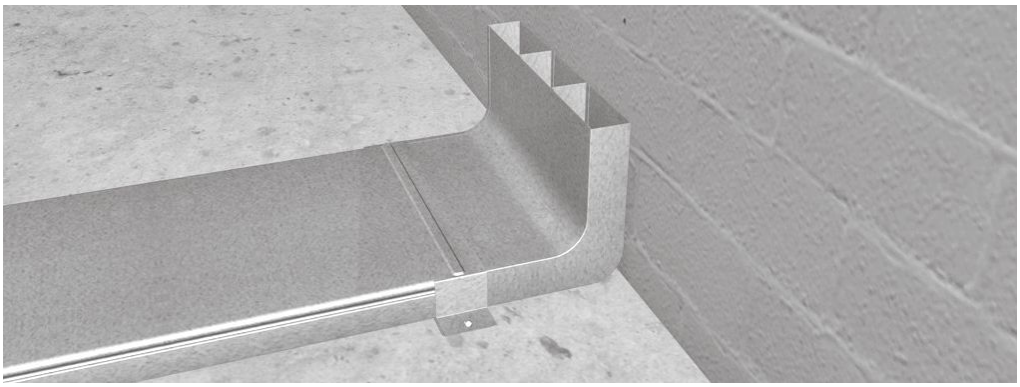
Vertical elbow UKK

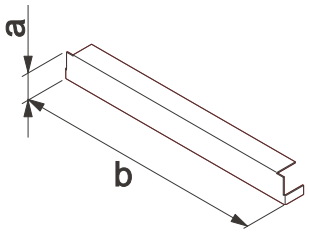
Vertical elbow UKK for routing transitions from horizontal to the vertical plane.
The connection between the vertical elbow and the trunking is made with a clamp.

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.

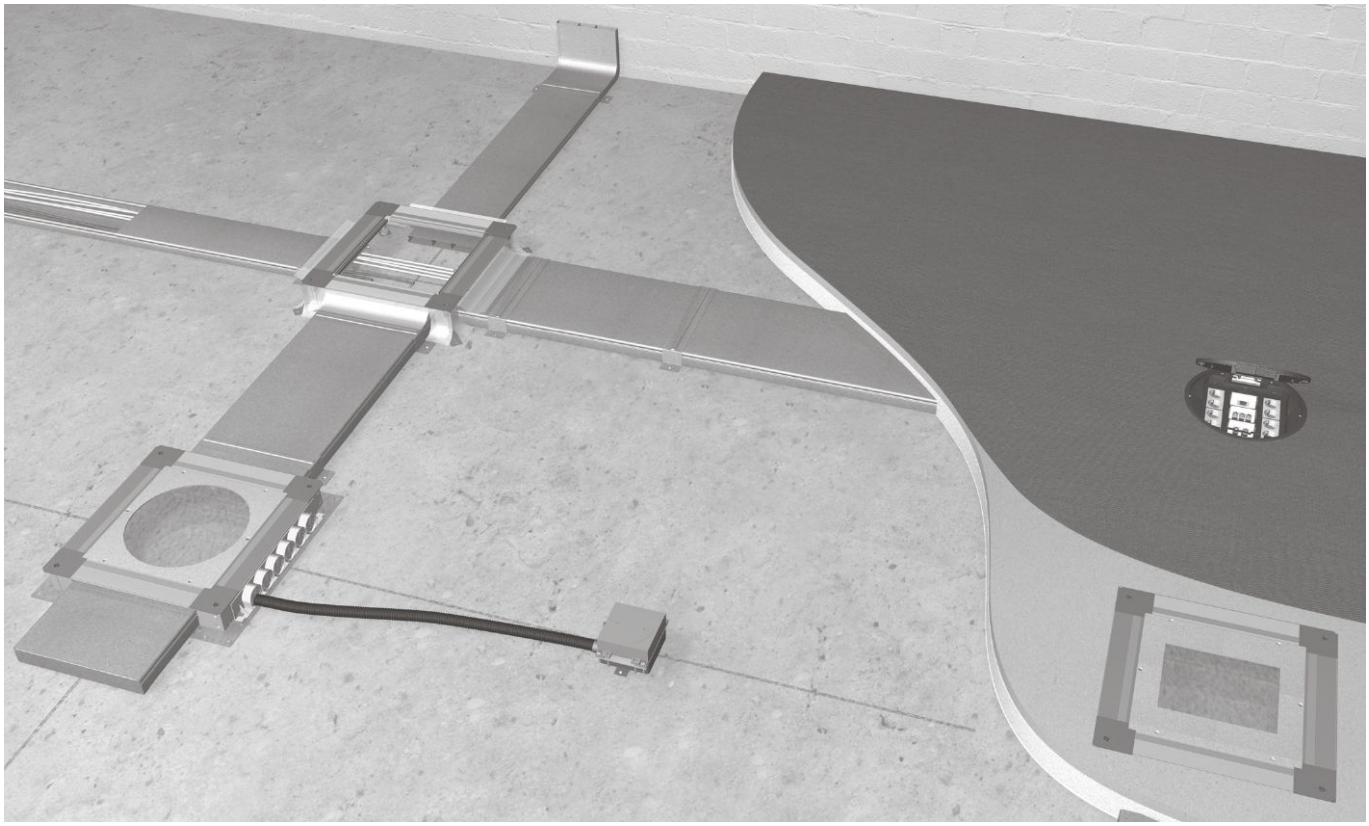
Support
Components must be supported to prevent deformation, if required.

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

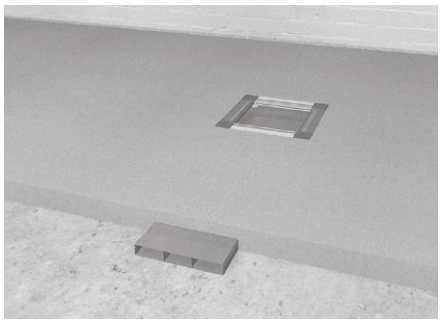
Curing
Do not walk or impose any mechanical load on the trunking system before the screed has hardened.

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).

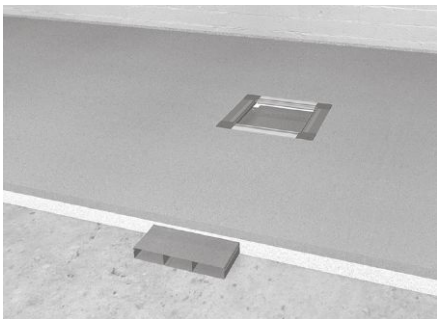


Installation in monolithic screed



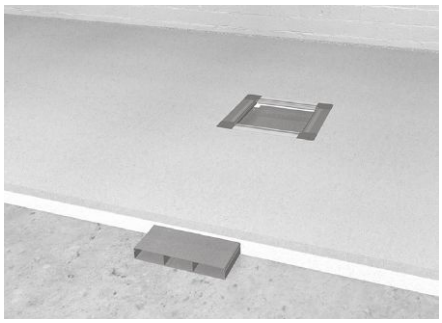
Disperse the cement screed directly onto the concrete slab and onto the underfloor trunkings.

Installation in floating floor screed



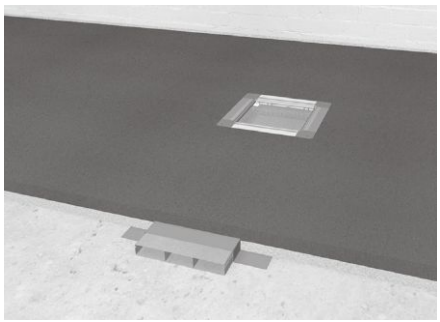
Cement screed is applied onto an insulating layer. The underfloor trunking is integrated in this insulation layer.

Installation in floating screed



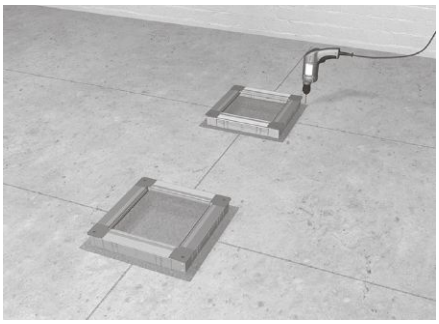
The installation of trunking and universal junction boxes is similar to the installation in cement screed. In addition, the system must be protected against the ingress of floating screed during installation.

Installation in hot screed (UDS3 only)



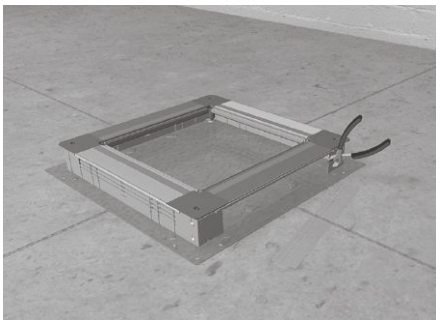
When casting hot screed or mastic asphalt temperatures of approx. 280 °C may occur. This requires trunking and universal junction boxes to be covered and insulated with bituminous corrugated board. Due to the high temperatures, lines must not be installed before the hot screed has completely cooled down.

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



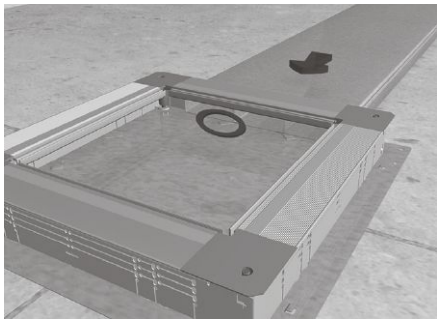
Position the universal junction boxes on the slab and secure them according to the lay-out.

Notch universal junction boxes UDS3



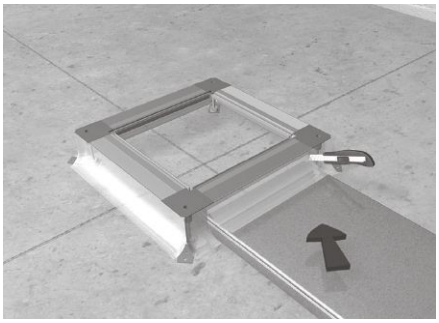
Create a notch in the corresponding sidewall of the universal junction box to connect the trunking. Use a wire cutter to cut out the panel along the perforation as required.

Connect the trunking to universal junction boxes UDS3



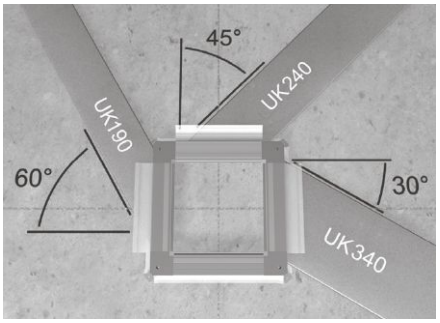
Insert the trunking through the notched side part and move it up to the stop at the bottom plate. The system must be protected by the customer against the ingress of liquid screed during installation.

Connect the trunking to universal junction box UDH



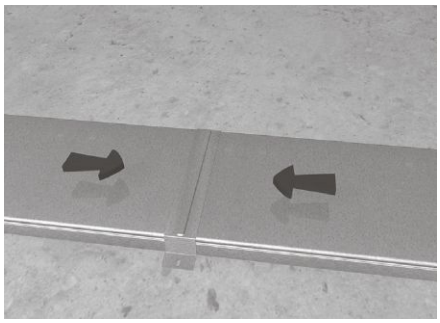
Insert the trunking under the flexible screed casing. Cut the flexible screed casing so that the trunking is enclosed with the foil. The system must be protected by the customer against the ingress of liquid screed during installation.

Bevel joints are possible



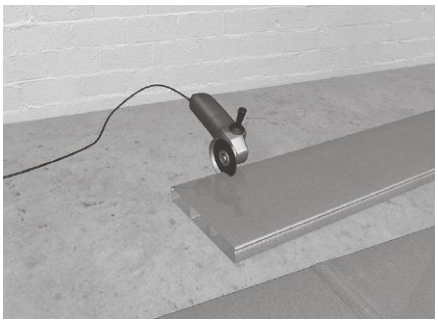
Universal junction boxes UDB3 and UDH3 allow trunking to be introduced at an angle as specified. This layout makes the drawing of cables more difficult. Up to 50° for junction box UDH2 and UK190 or up to 40° for UDH2 and UK240.

Lay the trunking



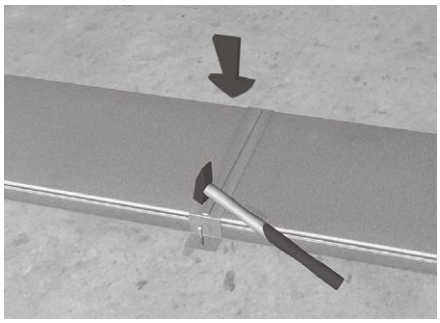
Lay the trunking segments edge to edge. The partition walls must be aligned.

Cut the trunking as required



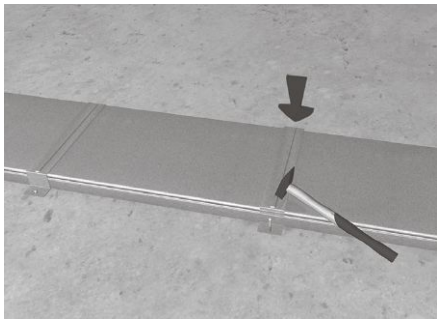
Cut trunking segments to length, if required. Sharp edges must then be deburred.

Attach the clamps



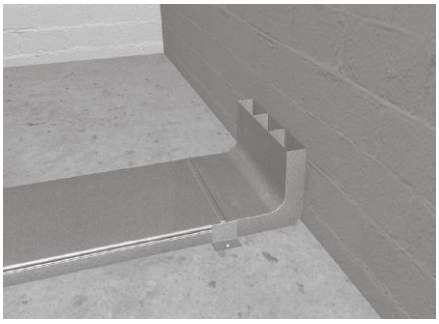
Connect the two trunking segments at their edges using a clamp and dowel it to the slap through the two holes (7 x 15 mm). The installation of the clamp is also required to ensure equipotential bonding between the trunking segments in accordance with DIN VDE 0100.

Additional brackets



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

Connect the vertical elbow

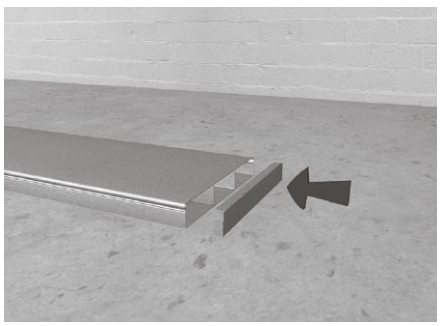


Connect the vertical elbows as wall connection to the trunking using a clamp.

Connect the feed channel

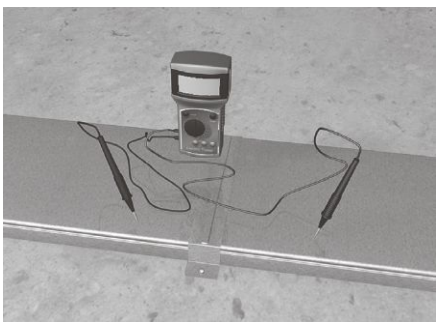
A feed channel can be attached to the vertical elbow for further line routing. This trunking segment connects the underfloor trunking to the wall trunking.

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



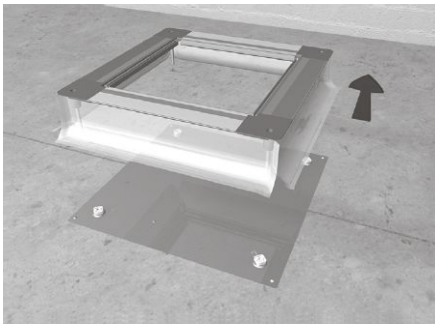
The trunking segments are joined mechanically and electrically by the clamps. All contact areas must be clean and free of grease.

Alternative installation method:

Attach the universal junction box

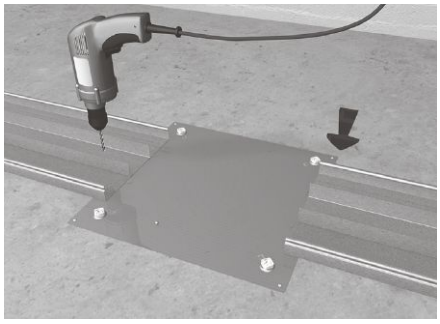
Secure the universal junction box to the slab.

Remove the upper part of the box



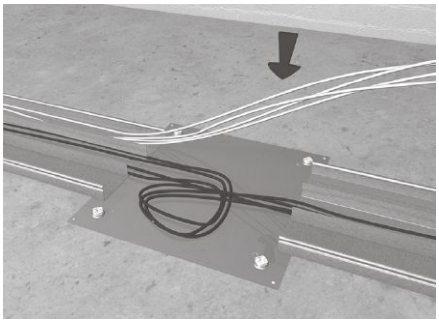
Pull the upper part from the universal junction box out of the soundproofing mounts. Bottom plate and soundproofing mounts remain firmly on the slab.

Attach the upper part of the trunking



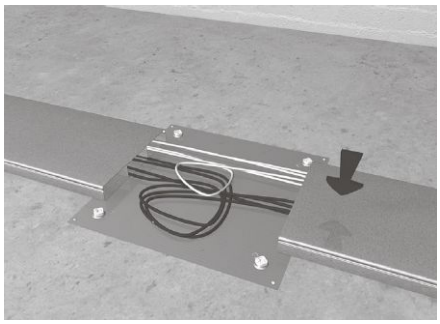
Thanks to the removable lid, the trunking can attached to the slab quickly and easily. Drive anchors, fasteners or other means may be used for the purpose.

Insert the cables from above



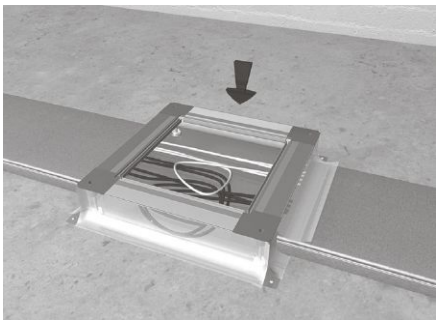
Cables can be placed in the open trunking from above. It is not necessary to pull the cables in. This facilitates a convenient, space-saving, orderly and bundled installation of cables.
Caution: Due to the high temperatures, this is not feasible in hot screed installations.

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".

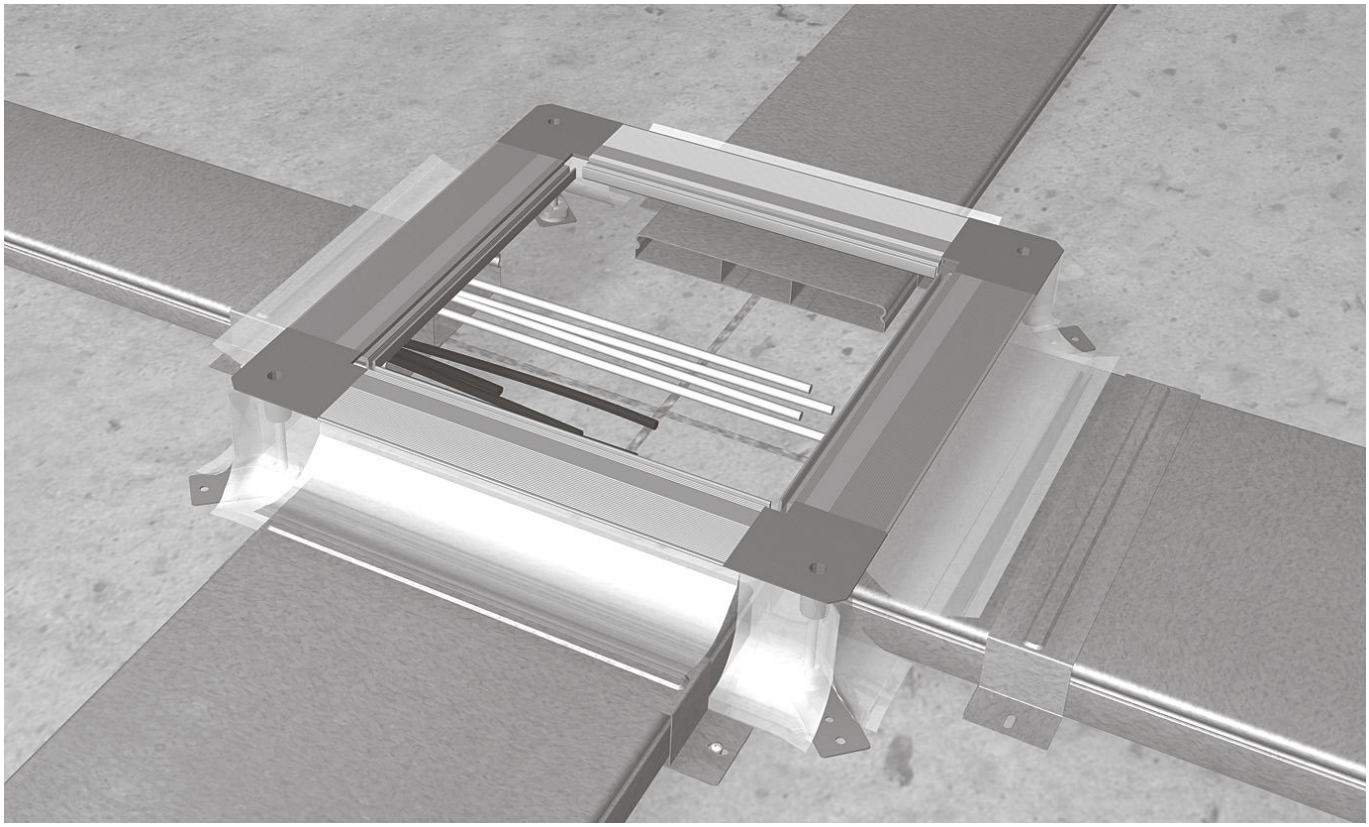
Earthing
System components must be included in the earthing measures according to DIN VDE 0100.

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

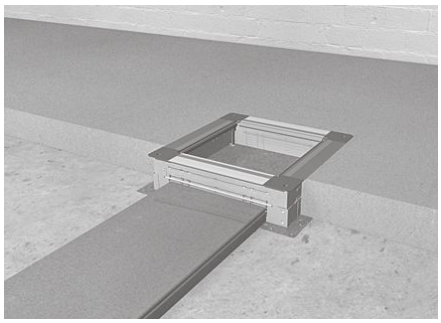
Hardening
Do not walk on the trunking system or impose any mechanical loads on it before the screed has hardened.

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).

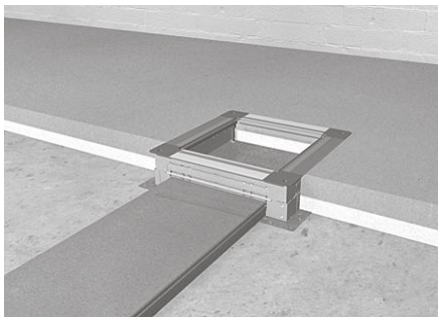


Installation in monolithic screed



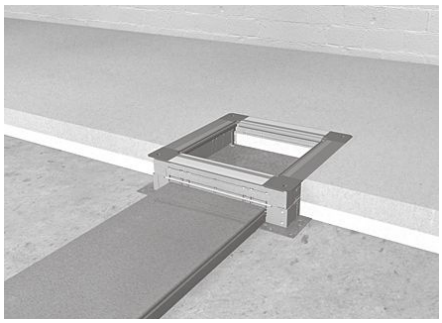
Cement screed is directly applied onto the slab and the galvanised underfloor trunking.

Installation in floating floor screed



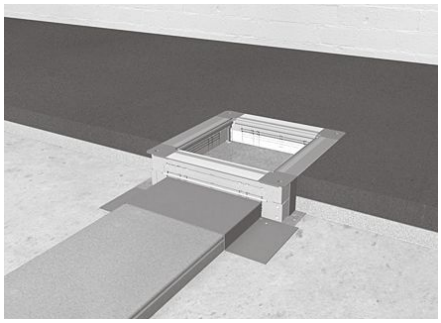
Cement screed is applied onto an insulating layer. The underfloor trunking is integrated in this insulation layer.

Installation in floating screed



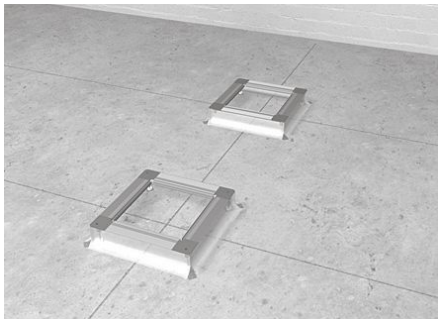
The installation of trunking and universal junction boxes is similar to the installation in cement screed. In addition, the system must be protected against the ingress of floating screed during installation.

Installation in hot screed (UDS3 only)



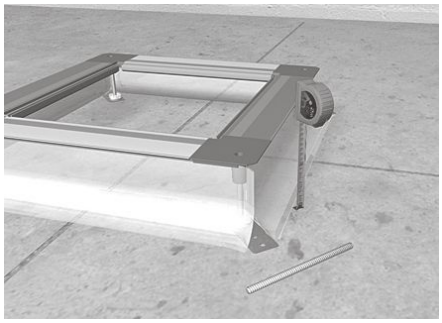
When casting hot screed or mastic asphalt temperatures of approx. 280 °C may occur. This requires trunking and universal junction boxes to be covered and insulated with bituminous corrugated board. Due to the high temperatures, lines must not be installed before the hot screed has completely cooled down.

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



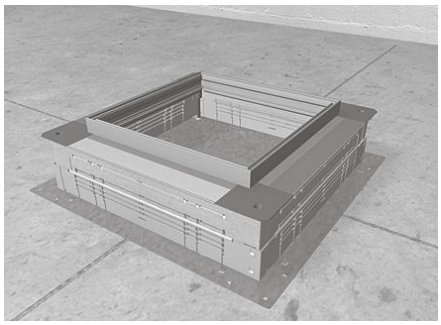
Locate the universal junction boxes on the slab and secure them according to the lay-out. The flexible screed casing must be on the outside.

Check the levelling area



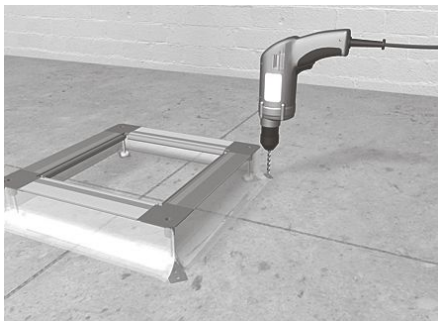
Check the levelling area on the slab. The studs of universal junction box UDB or UDH can be replaced, if required. Turn them counterclockwise to separate them from the soundproofing mounts. Do not pull the studs out or drive them in.

Screed height above 120 mm with UDS3



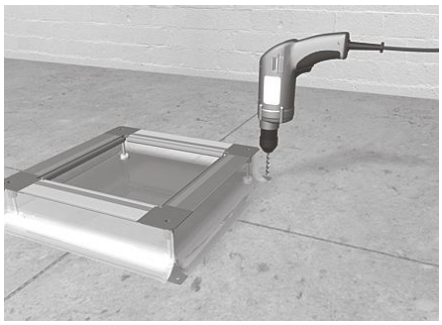
For screed heights of more than 120 mm the height of universal junction box UDS3 can be increased by 35 mm using levelling frame UDAR335. Place levelling frame onto the frame of the underfloor box and secure it with four screws.

Attach universal junction box UDH



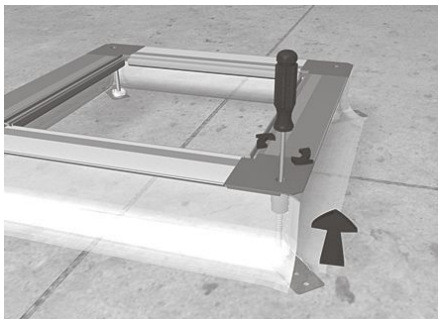
If universal junction box UDH is used, dowel all four brackets to the slab. Each bracket is pre-drilled with 1 x 6 mm and 1 x 7 mm holes.

Attach junction box UDB or UDS3



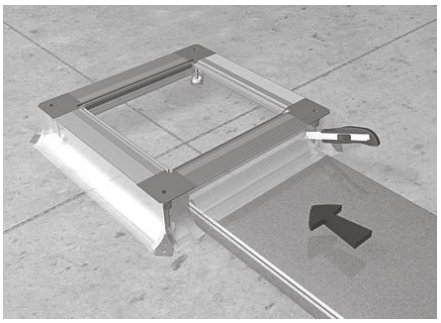
For universal junction box UDB or UDS3, the bottom plate must be secured to the slab at all four corners. Holes of 6.5 mm are provided in each corner.

Level the universal junction box



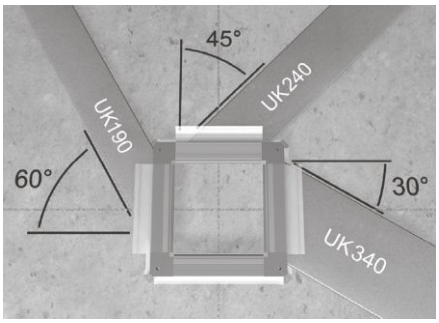
Level the box frame to the required height using a screwdriver to turn the studs at all four corners. The elastic mounting of the frame prevents cracks in the screed during curing.

Feed in the trunking



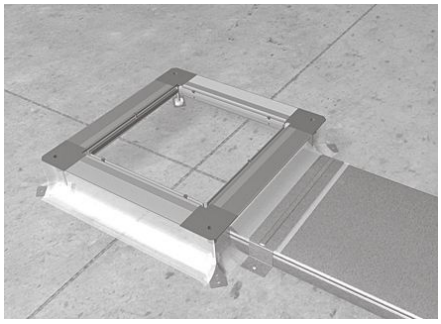
Cut in the film formwork to fit height and width of the trunking. Lift the film tab and push the trunking up to the stop on the bottom plate or approx. 40 mm under the universal junction box.

Angled trunking in-feed is possible



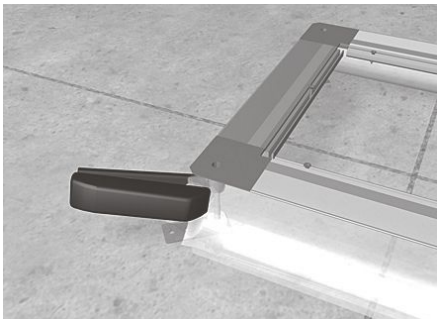
Universal junction boxes UDB3 and UDH3 allow trunking to be introduced at an angle as specified. This layout makes the installation of lines more difficult.

Attach the trunking



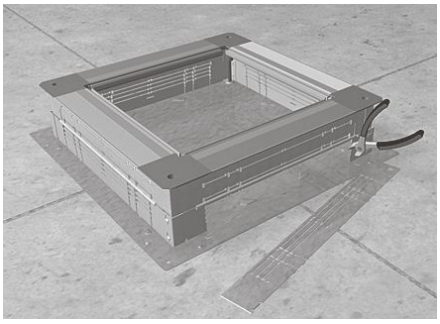
Pinch the film tab between trunking and bracket. Attach the bracket using plugs and screws.

Connect the film



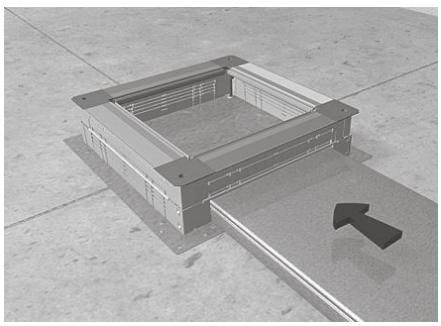
Join the screed formwork film at all four corners using a stapling pliers.

Cut out universal junction box UDS3



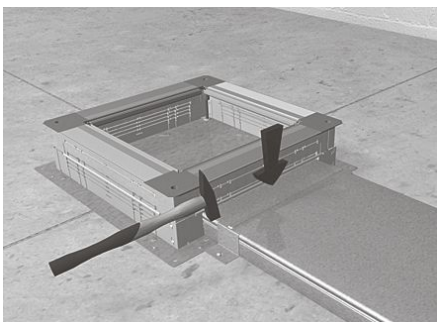
Before installation, a corresponding cut-out must be created in the universal junction box to allow connection of the trunking. Use a wire cutter to cut out the panel along the perforation as required.

Feed in the trunking



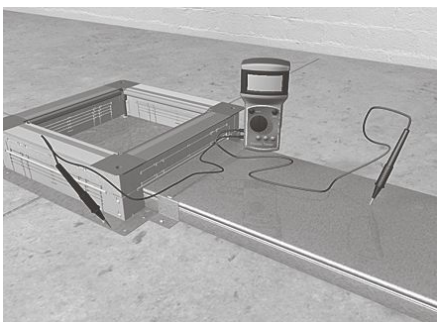
Introduce the trunking into the opening created in the sidewall and push it against the stop at the bottom plate.

Attach the trunking



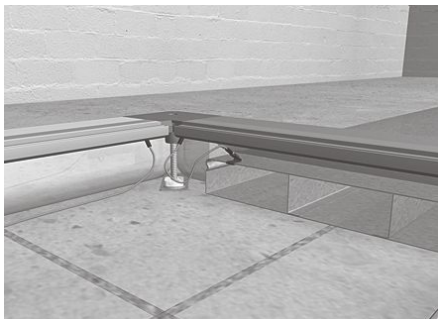
Connect the trunking to the universal junction box using a bracket.

Grounding of UDS3 / UDB



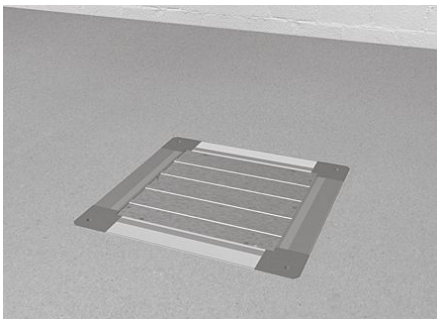
The force of the bracket pressing the trunking onto the bottom plate ensure the electric conductivity of the universal junction box and the trunking. The contact areas must be clean and free of grease. The ground conductor in the universal junction box must be connected to the ground connection on site.

Grounding underfloor box UDH



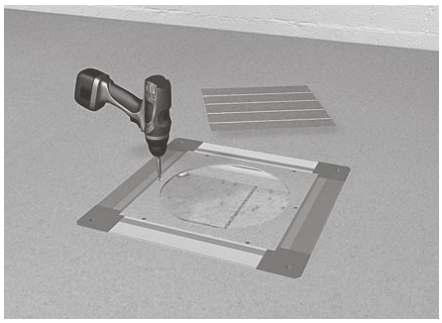
Connect the ground cable provided in the universal junction box the supplying trunking end to ensure electrical conductivity between the two components. The ground cable in the universal junction box must be connected to the ground connection on site.

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.

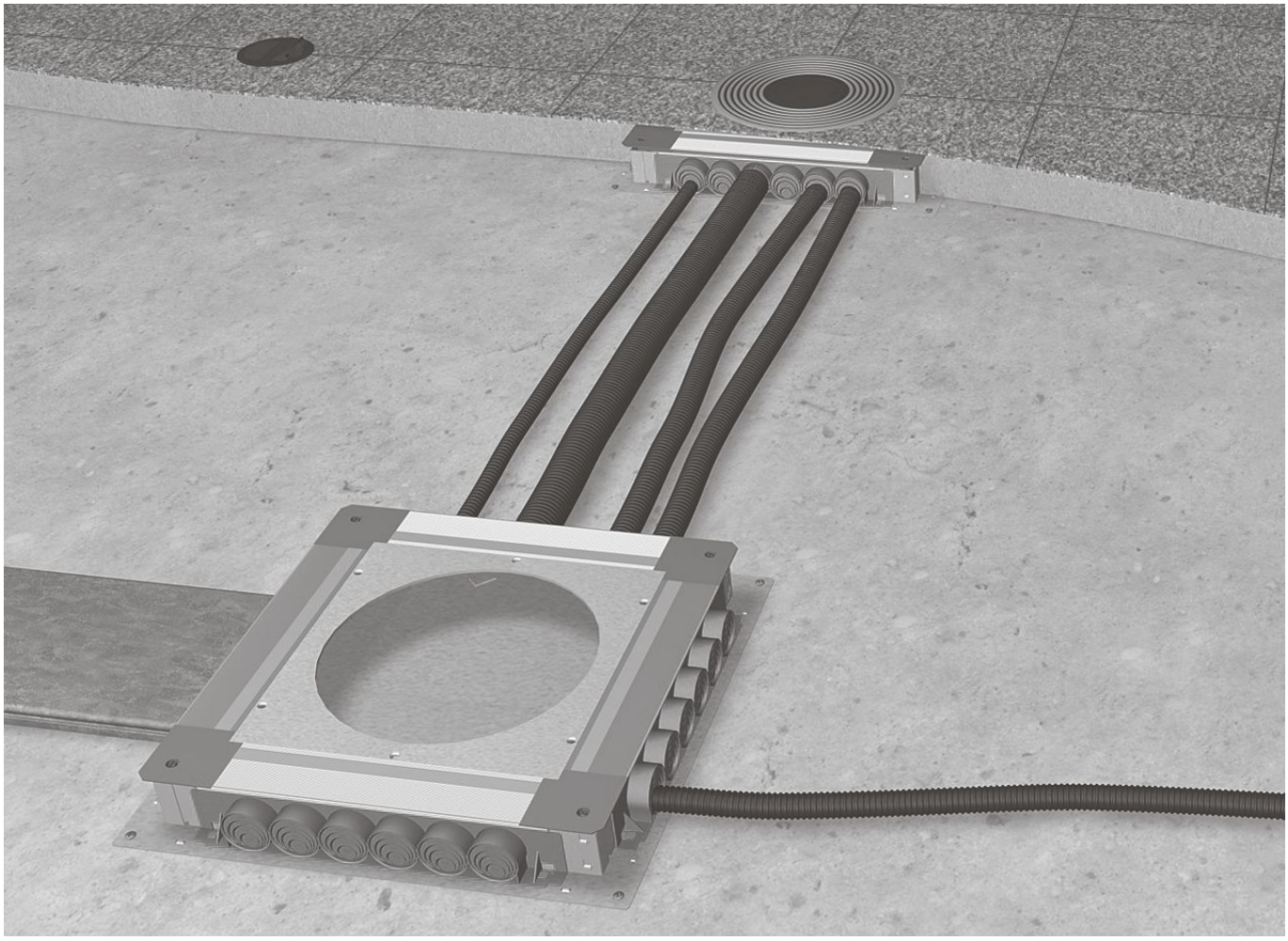
General instructions:

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.

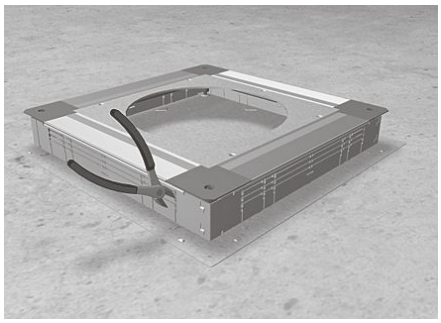
No additional parts needed
No additional parts such as reduction pieces or adapters are needed.

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.

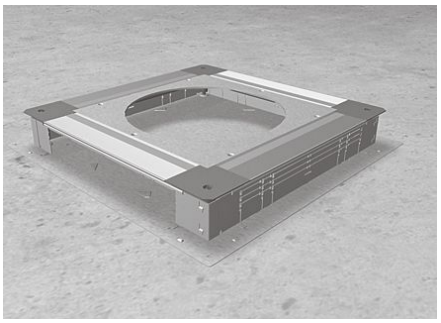


Cut out the sidewall



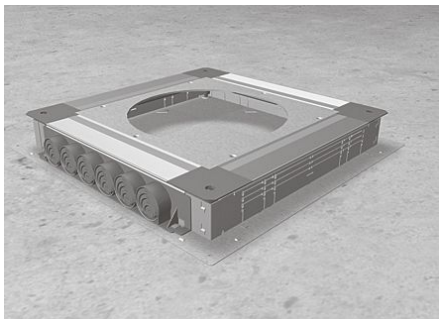
Notch the sidewall along the outermost perforation using a wire cutter.

Remove the sidewall



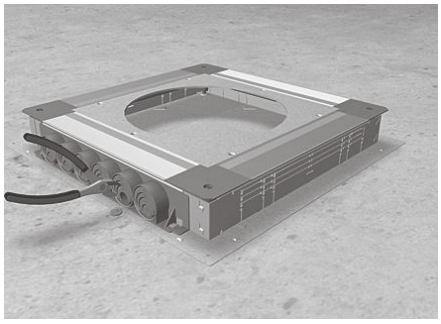
Remove cut-out sheet metal from sidewall.

Snap in the pipe inlet



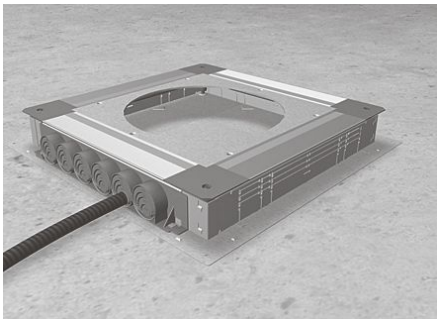
From the front face, snap pipe inlet UDS3 RE 20-50 into the lugs provided. The connection does not require any screws.

Notch the pipe inlet



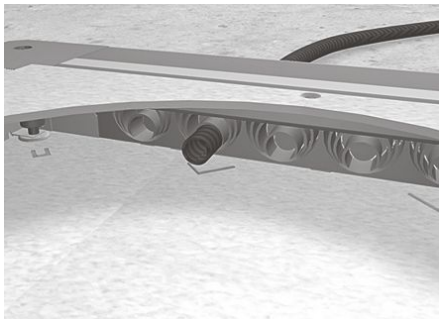
Notch the perforated plugs to the required diameter using a wire cutter or utility cutter.

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.