



Underfloor systems

Catalogue



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Underfloor systems



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Our history

The brand PUK represents an independent private enterprise, run in the best tradition of the German medium-sized businesses.

PUK-WERKE was formally founded in 1969. Our history, however, goes way back to the 30ies of the last century. Today, we may look back on 70 years of successful company history.

The Berlin-based businesses Herman Pohl OHG (general partnership, founded in 1951), and the Anton Klein OHG, (founded in 1935), whose shareholders decided in 1969 to bundle

their business activities in the PUK-WERKE KG (limited partnership), form the roots of our company.

The merge of those two companies set the course for a positive future. Synergies could be utilized, enabling the enterprise to work the German market with greater intensity. At the same time, this step laid the foundations for an efficient internationalization of our business relations.

Both founding companies began their success story with the production of cable clamps – known until this day as “Pohl-clamps” or “KSV-clamps”.

The development and production of cable support systems was soon to follow, developing into our today's complete and innovative product portfolio, complemented by under floor systems with new, patented solutions, as well as assembly systems for photovoltaic systems.

Our expertise in the installation of PV mounting systems are sourced from the long-time experience of our Spanish subsidiary PUK-Portacables and continue together with PUK Solar the success story.



Our group of companies

We supply cable support systems, cable clamps, under floor systems and assembly systems for photovoltaic systems directly to you; furthermore we will mount our products for you on your construction sites both, nationwide and abroad.

Consequently, we see ourselves as a service provider for whom customer orientation, service and flexibility are number one priority. Your contact person is always nearby in our 10 branches all over Germany.

In addition we have our own distribution companies or distribution partners in many European countries; thanks to our subsidiary P&K ENERGO, we can offer you our products even in Moscow in stock.

With our Polish subsidiary EL-PUK and PUK-România we not only have our own production site for the East European market but are also able to offer you assembly on site at regional conditions.

TEKOM-PUK is the leading producer of cable support systems in Turkey. Together with PUK-Middle East new possibilities will be opened not only in Turkey but also in its adjacent states and in the Arabic region.

In Western Europe, PUK Portacables is your partner on the spanish and portuguese market, PUK Schweiz on the swiss market, PUK Benelux in The Netherlands and Belgium, as well as PUK UK in the United Kingdom and Ireland.

In the fiscal year of 2015, the PUK Group generated a turnover of about 140 million Euros with around 770 employees – 415 of them work in Germany.



Our comprehensive offer

Consulting

Our field staff and sales force consists of skilled specialists with high-level expert knowledge and many years of experience.

They are always happy to answer your questions regarding cable support systems, cable clamps, underfloor systems and photovoltaic systems.

If you wish, our experts will develop technical solutions for you and optimize your project together with you under consideration of costs.

If you chose to mount our products on your construction site, our local staff will help you all the way - from the right

choice of products to the mounting technology.

Planning

Our technical department engineers in our Berlin headquarters are at our customers' disposal. During international large-scale projects, they work in close cooperation with the responsible planning and engineering offices Germany-wide and abroad.

Our engineers develop detailed recommendations for special applications, provide engineering drawings, static verifications and compile installation-typicals for complex situations to ensure a smooth mounting of our products.

Installation

Our competence in installation is being proven on nearly 1.000 construction sites per year.

The PUK branch offices provide flexible and customer-oriented support for small and medium-sized projects. Our experienced construction supervisors are located directly in our branch offices to make sure that your competent contact person is always close by during the completion of your project.

If you are planning a challenging and



complex major project in Germany or abroad, our main installation department in the Berlin headquarters will be by your side.

The construction of a power plant, a tunnel or an airport often times requires the timely delivery and installation of more than 100 kilometres of cable trays. Therefore, our construction supervisors are always on site.

Our SCC-certification meets high requirements regarding security, health and environment protection (according to SGU) on our construction sites.

Production and logistics

In Germany, we manufacture in two modern plants in Berlin and Schöneck (Eifel) on a shop floor of more than 30.000 square metres.

Our high capacity and flexible production lines process more than 20.000 tons of steel each year into cable support parts, underfloor components and photovoltaic constructions.

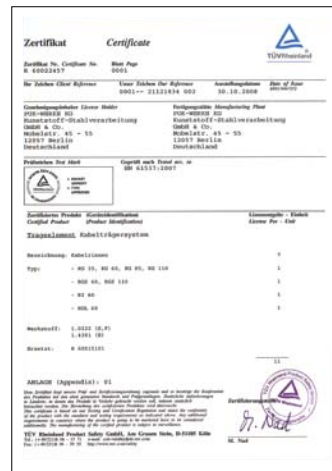
Our own galvanizing plants are an essential factor for being able to guarantee our quality and flexibility.

Our broad experience has taught us how important it is for the completion of every individual project to have a reliable material availability, even on short-notice.

Therefore, our PUK storehouses in all regions are at your disposal offering an extensive assortment of products. With the storehouses at our production facilities plus other nine storehouses throughout Germany, we can guarantee shortest delivery times, no matter where you are, and – if you have commissioned us with the assembly as well – the capability for a proximate assembly start.



Quality and safety



We ensure the quality of our products and the application security by constant inspection and certification, as well as by supplementing the legal test procedures by additional, specially developed quality assurance. Specific instructions regarding work, procedures and inspection are an inherent part of our quality management.

Our plants and branch offices have been certified according to DIN EN ISO 9001. This certification applies to the construction, manufacture and mounting of PUK cable support systems.

In co-operation with the TÜV Rheinland (Technical Inspection Agency), we test our cable support systems on our own test stand according to the strict DIN EN 61537 guidelines and with a special focus on the bearing capacities and thus application security.

Our underfloor systems comply with DIN EN 50085 and DIN VDE 0634.

PUK Solar's mounting systems were tested and certified according to the TÜV specification TZE/2.572.11.

The corresponding specifications in our catalogues bear the „TÜV Rheinland - construction type tested“ label as well as the VDE label.

Our SCC-certification meets high requirements regarding security, health and environment protection (according to SGU) on our construction sites.

Our product portfolio



Cable trays

A time-tested complete solution, consisting of:

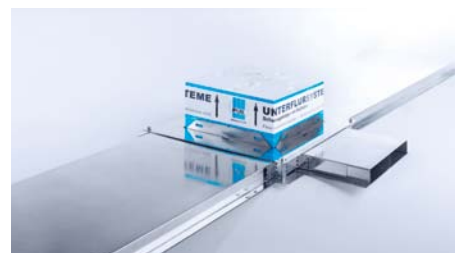
- wire mesh cable trays
- cable trays
- cable ladders
- wide-span systems
- supporting elements

Proven and tested system solutions consisting of serial parts. Cost-efficient due to serial production on state-of-the-art production facilities.



Cable clamps

The thoroughly tried and tested solution for the rational and safe mounting of one, two or three cables with a diameter of up to 175 mm. For mounting to channels of various dimensions, to sectional steel, or directly to the wall. Made of hot-dip galvanized steel, corrosion-resistant and non-magnetic high-grade steel or of aluminium.



Underfloor systems

Complete solutions for all types of use, consisting of:

- screed flush duct systems
- system components for double and cavity floors
- screed covered duct systems
- device cup and installation devices made of hot-dip galvanized steel, high-grade steel and synthetic material.



Industry

A specially developed product range for industrial plants with the highest safety standards, consisting of:

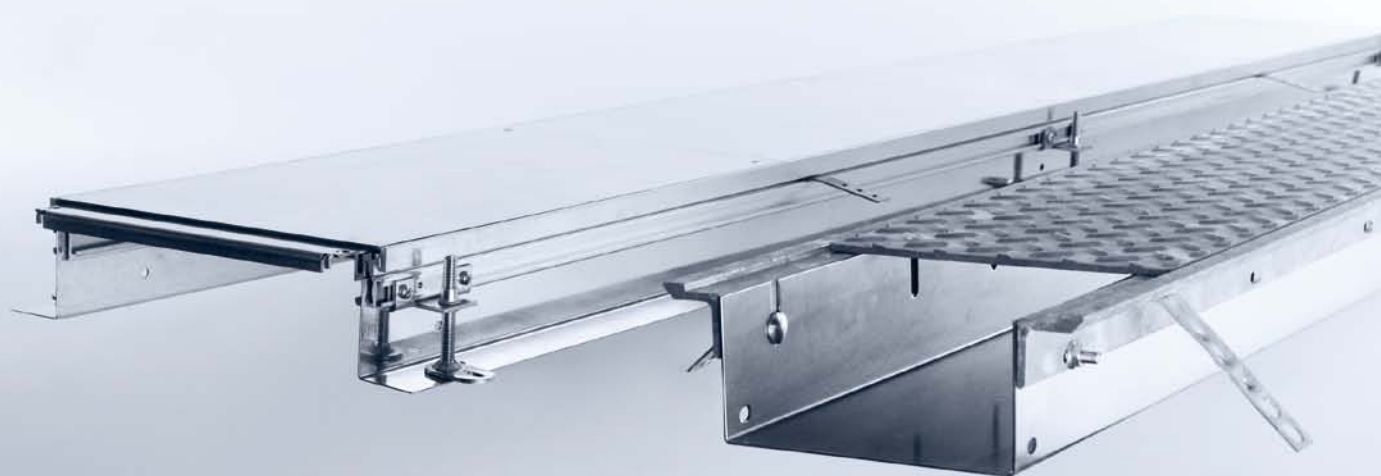
- wide-span cable systems
- ship ladders
- supporting systems
- PUK STRUT



PUK Solar

The mounting system for photovoltaic system underframes is based on the use of various standard mounting profiles. The simplicity of the coaction of the profiles to the module clamps, the functionality as well as the flexible utilization are the prerequisites for the easily distinguishable user-friendly mountability of our system. Based on set parameters we offer solutions for the assembly of photovoltaic systems that are statically funded, yet at the same time unbeatably priced.

Of course, we offer our cable trays, underfloor systems, as well as mounting structures for photovoltaic systems with optional assembly!



Screed flush duct systems

Screed flush duct	A04-A16
Heavy-duty floor duct	A18-A21



Numeric index

Screed flush duct systems

B

BSS Flat head tapping screw [A16](#)

L

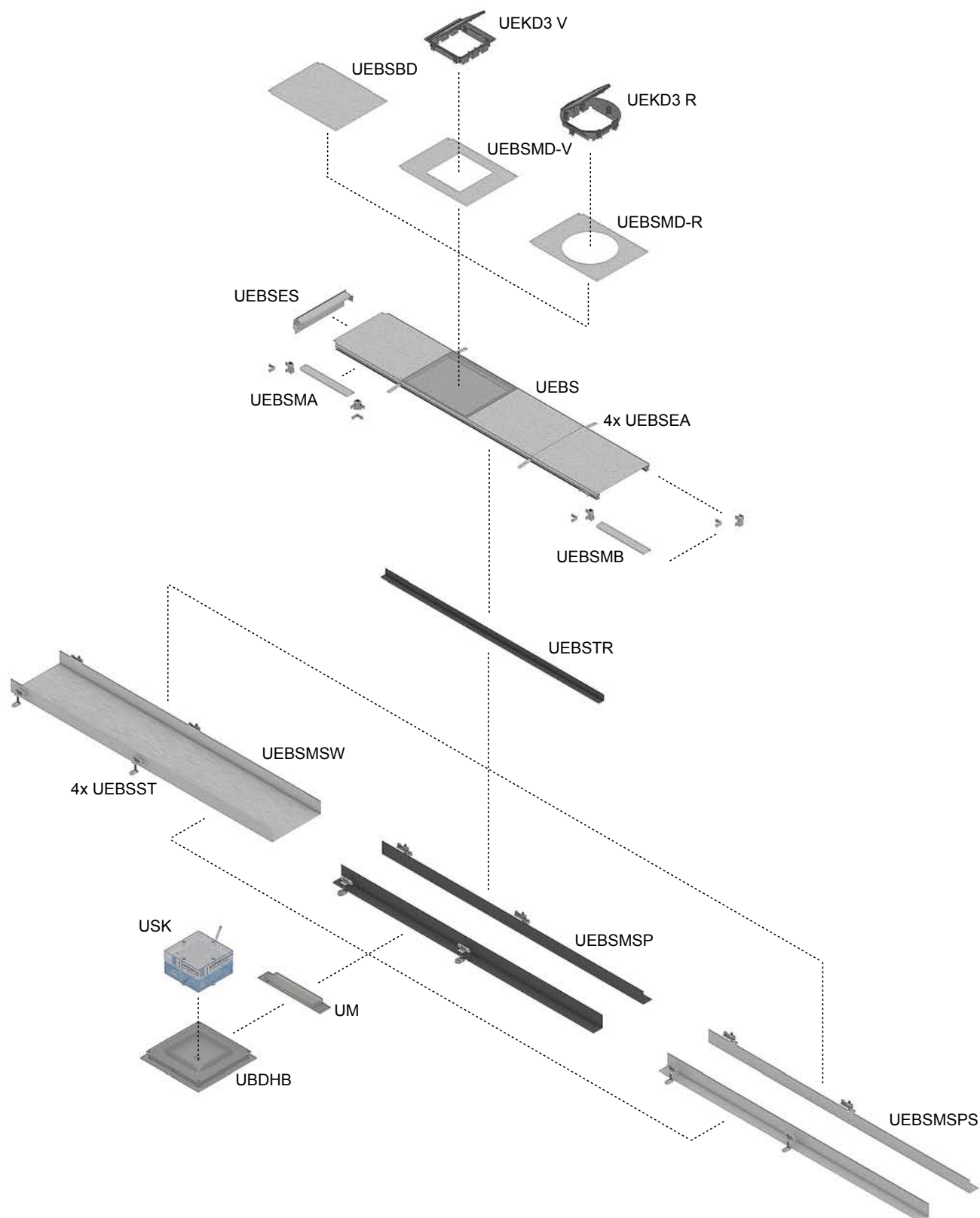
LKS Lens head screw [A16](#)

U

UBDSLF levelling support [A14](#)
UBK bottom piece [A18](#)
UBKAB outward profile bend [A20](#)
UBKD dummy cover [A18](#)
UBKDB spacer [A21](#)
UBKEB end piece [A20](#)
UBKIB inward profile bend [A20](#)
UBKPR side profile [A19](#)
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UGM SLF Subsonic noise sleeve socket - levelling support [A14](#)

System overview

Screed flush duct systems



Screed flush duct systems

Screed flush duct

UEBS screed flush duct, 1 compartment

Screed-flush duct system consisting of 1x duct UEBS, 2x side panels UEBSMSP, respectively 1x tub UEBSMSW and 4x levelling units UEBSST.
For assembly instructions, see the chapter assembly.

article number	H _{min} mm	N mm	B mm	L mm	E mm	t mm	P _{max} kN	IP _n	G kg
S									
UEBS 20S	60	+90	200	2000	400	1,5	2	IP 30	15,14

accessories included:

2 x UEBSPT-3 AL	carpet flange with hem 0/3 mm	(page A15)
1 x UEBSE	earthing connector	(page A13)
4 x UEBSEA	screed anchor	(page A15)
4 x UEBSD 20S	dummy cover	(page A14)

article number	H _{min} mm	N mm	B mm	L mm	E mm	t mm	P _{max} kN	IP _n	G kg
S									
UEBS 30S	60	+90	300	2000	500	1,5	2	IP 30	20,30

accessories included:

2 x UEBSPT-3 AL	carpet flange with hem 0/3 mm	(page A15)
1 x UEBSE	earthing connector	(page A13)
4 x UEBSEA	screed anchor	(page A15)
4 x UEBSD 30S	dummy cover	(page A14)

article number	H _{min} mm	N mm	B mm	L mm	E mm	t mm	P _{max} kN	IP _n	G kg
S									
UEBS 40S	60	+90	400	2000	600	1,5	2	IP 30	25,46

accessories included:

2 x UEBSPT-3 AL	carpet flange with hem 0/3 mm	(page A15)
1 x UEBSE	earthing connector	(page A13)
4 x UEBSEA	screed anchor	(page A15)
4 x UEBSD 40S	dummy cover	(page A14)

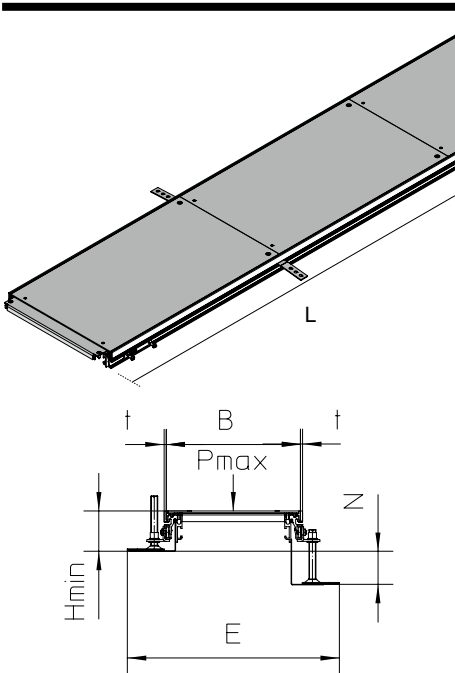
article number	H _{min} mm	N mm	B mm	L mm	E mm	t mm	P _{max} kN	IP _n	G kg
S									
UEBS 50S	60	+90	500	2000	700	1,5	2	IP 30	30,86

accessories included:

2 x UEBSPT-3 AL	carpet flange with hem 0/3 mm	(page A15)
1 x UEBSE	earthing connector	(page A13)
4 x UEBSEA	screed anchor	(page A15)
4 x UEBSD 50S	dummy cover	(page A14)

accessories optional:

UEBSMSP	Plastic side panels	(page A07)
UEBSQT S	transverse cross bar	(page A15)
UEBSMSP S	Steel sheet side panels	(page A07)
UEBSQT	transverse cross bar	(page A15)
UEBSMSW	Floor tub	(page A05)
UEBSST	levelling support	(page A07)

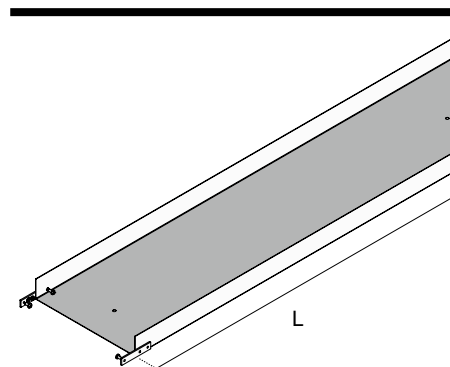


Screed flush duct systems

Screed flush duct

UEBSMSW Floor tub

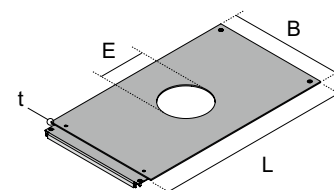
article number	H _{min} mm	N mm	B mm	L mm	G kg
S					
UEBSMSW 60-20S	60	+ 30	200	2000	4,28
UEBSMSW 60-30S	60	+ 30	300	2000	5,85
UEBSMSW 60-40S	60	+ 30	400	2000	7,42
UEBSMSW 60-50S	60	+ 30	500	2000	8,99
UEBSMSW 80-20S	80	+ 30	200	2000	4,91
UEBSMSW 80-30S	80	+ 30	300	2000	6,48
UEBSMSW 80-40S	80	+ 30	400	2000	8,05
UEBSMSW 80-50S	80	+ 30	500	2000	9,62
UEBSMSW 100-20S	100	+ 30	200	2000	5,54
UEBSMSW 100-30S	100	+ 30	300	2000	7,11
UEBSMSW 100-40S	100	+ 30	400	2000	8,68
UEBSMSW 100-50S	100	+ 30	500	2000	10,25
UEBSMSW 120-20S	120	+ 30	200	2000	6,17
UEBSMSW 120-30S	120	+ 30	300	2000	7,74
UEBSMSW 120-40S	120	+ 30	400	2000	9,31
UEBSMSW 120-50S	120	+ 30	500	2000	10,87



UEBSMD 122R Assembly cover, round

article number	B mm	L mm	E mm	t mm	G kg
S					
UEBSMD-122R 20S	200	500	122	3	2,21
UEBSMD-122R 30S	300	500	122	3	3,50
UEBSMD-122R 40S	400	500	122	3	4,78

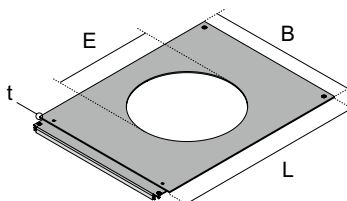
accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



UEBSMD 260R Assembly cover, round

article number	B mm	L mm	E mm	t mm	G kg
S					
UEBSMD-260R 40S	400	500	260	3	3,81

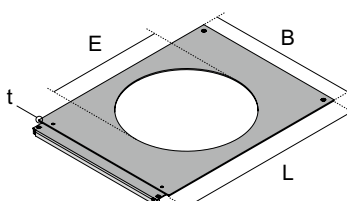
accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



UEBSMD 307R Assembly cover, round

article number	B mm	L mm	E mm	t mm	G kg
S					
UEBSMD-307R 40S	400	500	307	3	3,32
UEBSMD-307R 50S	500	500	307	3	4,66

accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



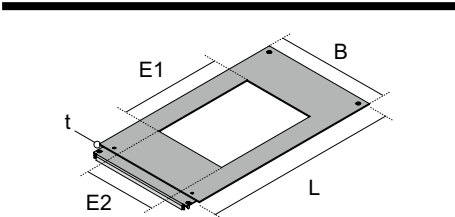
Screed flush duct systems

Screed flush duct

UEBSMD 185V Assembly cover, quadrangular

article number	B mm	L mm	E1 mm	E2 mm	t mm	G kg
S						
UEBSMD-185V 30S	300	500	261	186	3	2,63
UEBSMD-185V 40S	400	500	261	186	3	3,92

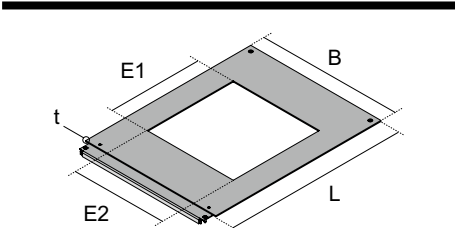
accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



UEBSMD 260V Assembly cover, quadrangular

article number	B mm	L mm	E1 mm	E2 mm	t mm	G kg
S						
UEBSMD-260V 40S	400	500	261	261	3	2,63
UEBSMD-260V 50S	500	500	261	261	3	4,79

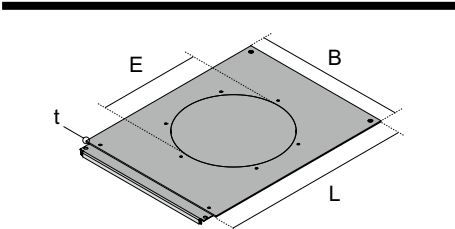
accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



UEBSBMD 260R Assembly cover, blank, round

article number	B mm	L mm	E mm	t mm	G kg
S					
UEBSBMD-260R 40S	400	500	260	3	5,23

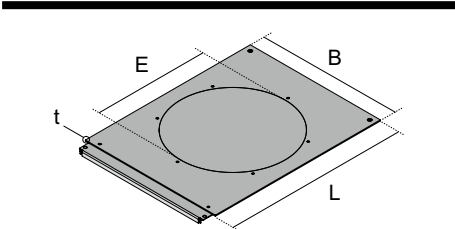
accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



UEBSBMD 307R Assembly cover, blank, round

article number	B mm	L mm	E mm	t mm	G kg
S					
UEBSBMD-307R 40S	400	500	307	3	5,23
UEBSBMD-307R 50S	500	500	307	3	6,58

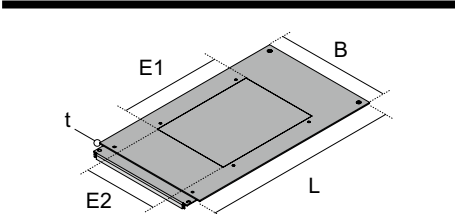
accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



UEBSBMD 185V Assembly cover, blank, quadrangular

article number	B mm	L mm	E1 mm	E2 mm	t mm	G kg
S						
UEBSBMD-185V 30S	300	500	261	186	3	4,03
UEBSBMD-185V 40S	400	500	261	186	3	5,32

accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



Screed flush duct systems

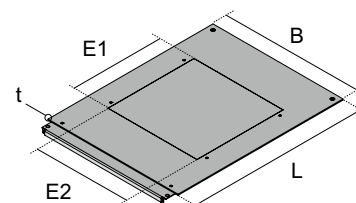
Screed flush duct

UEBSBMD 260V Assembly cover, blank, quadrangular

article number	B mm	L mm	E1 mm	E2 mm	t mm	G kg
S						
UEBSBMD-260V 40S	400	500	261	261	3	5,32
UEBSBMD-260V 50S	500	500	261	261	3	6,67

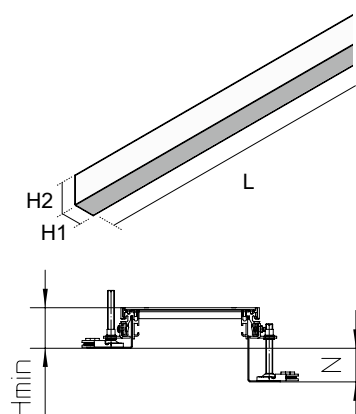
accessories included:

2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



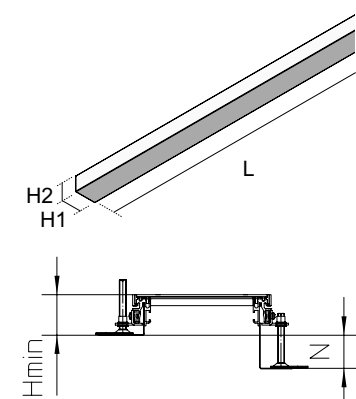
UEBSMSP Plastic side panels

article number	H1 mm	H2 mm	H _{min} mm	N mm	L mm	G kg
PA						
UEBSMSP 60	48	68	60	+ 50	2000	1,00
UEBSMSP 100	88	108	100	+ 50	2000	1,02



UEBSMSP S Steel sheet side panels

article number	H1 mm	H2 mm	H _{min} mm	N mm	L mm	G kg
S						
UEBSMSP 60S	48	68	60	+ 50	2000	1,35
UEBSMSP 100S	88	108	100	+ 50	2000	1,29



UEBSST levelling support

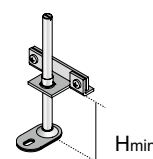
article number	H _{min} mm	N mm	G kg
S			
UEBSST 80S	60	+ 50	0,18

accessories included:

2 x **LKS M5x10** Lens head screw (page A16)
 1 x **UBDSLFL 80** levelling support (page A14, C39)
 1 x **UEBSV S** coupler (page A13)

accessories optional:

UGM SLF Subsonic noise sleeve socket - levelling support (page A14, C39)



Screed flush duct systems

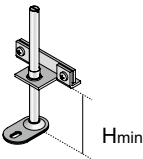
Screed flush duct

UEBSST levelling support

article number	H _{min} mm	N mm	G kg
S			
UEBSST 150S	100	+ 50	0,20

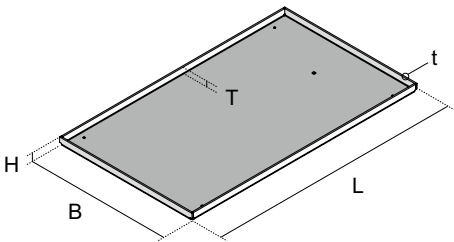
accessories included:
2 x **LKS M5x10** Lens head screw (page A16)
1 x **UBDSLFL 150** levelling support (page A14, C39)
1 x **UEBSV S** coupler (page A13)

accessories optional:
UGM SLF Subsonic noise sleeve socket - levelling support (page A14, C39)



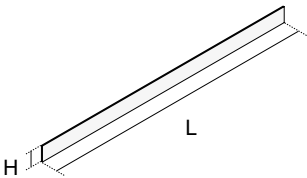
UEBSBD dummy cartridge, quadrangular

article number	H mm	B mm	L mm	t mm	Tiefe mm	G kg
E						
UEBSBD 15-20E	15	194	500	3	12	2,68
UEBSBD 15-30E	15	294	500	3	12	3,92
UEBSBD 15-40E	15	394	500	3	12	5,16
UEBSBD 15-50E	15	494	500	3	12	6,39
UEBSBD 25-20E	25	194	500	3	22	3,00
UEBSBD 25-30E	25	294	500	3	22	4,29
UEBSBD 25-40E	25	394	500	3	22	5,58
UEBSBD 25-50E	25	494	500	3	22	6,86



UEBSPT E Cartridge edge

article number	H mm	L mm	G kg
E			
UEBSPT-15 E	26	2000	0,84
UEBSPT-25 E	36	2000	1,15



Screed flush duct systems

Screed flush duct | Mounting kit

UEBSMA mounting Kit T-branch

article number	G
	kg
S	
UEBSMA 20S	0,34

accessories included:

1 x UEBSQT 20S	transverse cross bar	(page A15)
2 x UEBSVE S	Corner connector	(page A13)
2 x UEBSV	Corner connector	(page A13)

article number	G
	kg
S	
UEBSMA 30S	0,45

accessories included:

1 x UEBSQT 30S	transverse cross bar	(page A15)
2 x UEBSVE S	Corner connector	(page A13)
2 x UEBSV	Corner connector	(page A13)

article number	G
	kg
S	
UEBSMA 40S	0,56

accessories included:

1 x UEBSQT 40S	transverse cross bar	(page A15)
2 x UEBSVE S	Corner connector	(page A13)
2 x UEBSV	Corner connector	(page A13)

article number	G
	kg
S	
UEBSMA 50S	0,73

accessories included:

2 x UEBSVE S	Corner connector	(page A13)
2 x UEBSV	Corner connector	(page A13)

UEBSMB mounting Kit 90° bend

article number	G
	kg
S	
UEBSMB 20S	0,34

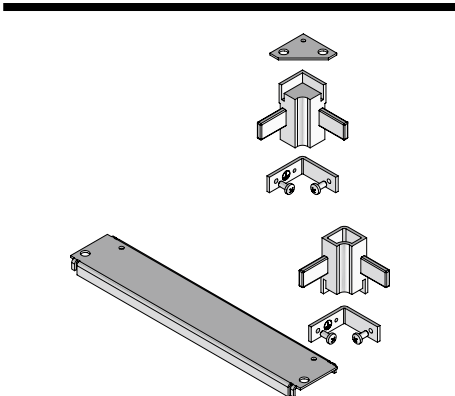
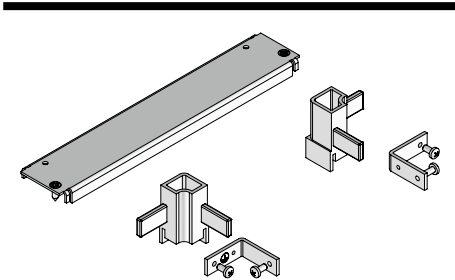
accessories included:

1 x UEBSQT 20S	transverse cross bar	(page A15)
1 x UEBSVMB S	Corner connection sheet steel	(page A13)
2 x UEBSVE S	Corner connector	(page A13)
2 x UEBSV	Corner connector	(page A13)

article number	G
	kg
S	
UEBSMB 30S	0,45

accessories included:

1 x UEBSQT 30S	transverse cross bar	(page A15)
1 x UEBSVMB S	Corner connection sheet steel	(page A13)
2 x UEBSVE S	Corner connector	(page A13)
2 x UEBSV	Corner connector	(page A13)



Screed flush duct systems

Screed flush duct | Mounting kit

UEBSMB mounting Kit 90° bend

article number	G
	kg
S	
UEBSMB 40S	0,56

- accessories included:
- 1 x UEBSQT 40S transverse cross bar (page A15)
 - 1 x UEBSVMB S Corner connection sheet steel (page A13)
 - 2 x UEBSVE S Corner connector (page A13)
 - 2 x UEBSV Corner connector (page A13)

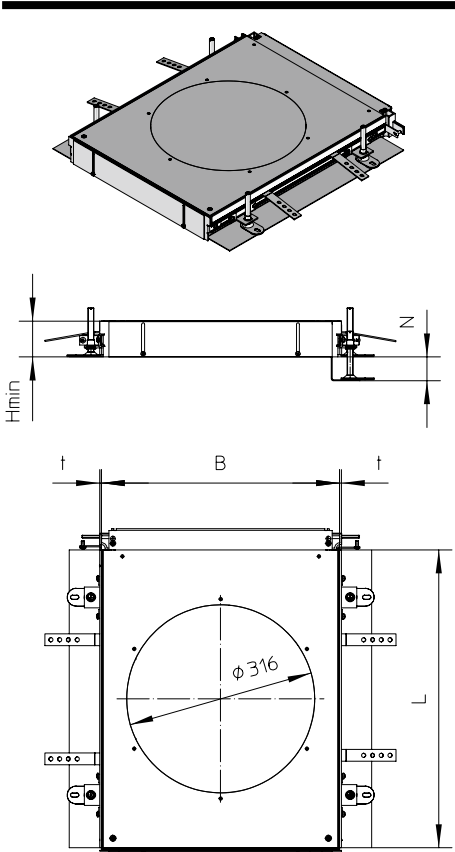
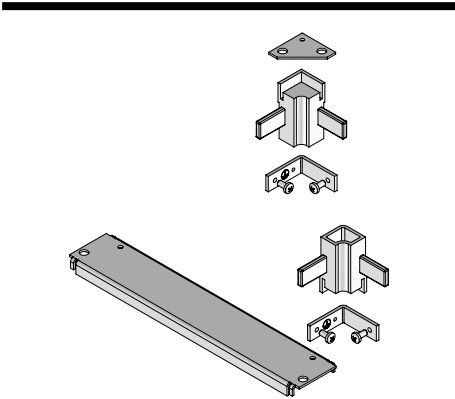
article number	G
	kg
S	
UEBSMB 50S	0,73

- accessories included:
- 1 x UEBSVMB S Corner connection sheet steel (page A13)
 - 2 x UEBSV Corner connector (page A13)
 - 2 x UEBSVE S Corner connector (page A13)

UEBSAM60 R Attachment part screed flush duct

article number	H _{min} mm	N mm	B mm	L mm	E mm	t mm	G kg
S							
UEBSAM60-307R 40S	60	+ 50	400	500	316	3	9,013

- accessories included:
- 2 x UEBSVE S Corner connector (page A13)
 - 4 x UEBSST 80S levelling support (page A07)
 - 2 x UEBSPT-3 AL carpet flange with hem 0/3 mm (page A15)
 - 1 x UEBSSES 60-40S end piece (page A11)
 - 4 x UEBSSEA screed anchor (page A15)
 - 1 x UEBSBMD-307R 40S Assembly cover, blank, round (page A06)
 - 2 x UEBSMSP 60 Plastic side panels (page A07)
 - 2 x UEBSV-50 Corner connector (page A13)



Screed flush duct systems

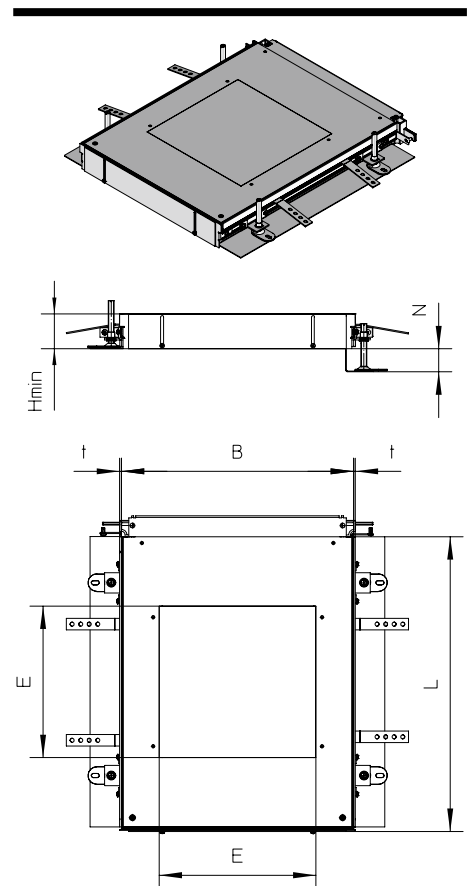
Screed flush duct | Mounting kit

UEBSAM60 V Attachment part screed flush duct

article number	H _{min} mm	N mm	B mm	L mm	E mm	t mm	G kg
S							
UEBSAM60-260V 40S	60	+ 50	400	500	261x270	3	9,104

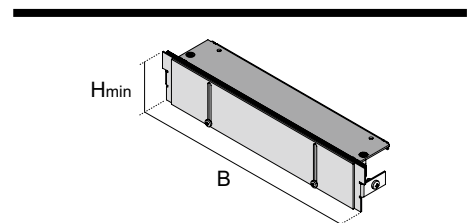
accessories included:

2 x UEBSVE S	Corner connector	(page A13)
4 x UEBSST 80S	levelling support	(page A07)
2 x UEBSPT-3 AL	carpet flange with hem 0/3 mm	(page A15)
1 x UEBSES 60-40S	end piece	(page A11)
4 x UEBSEA	screed anchor	(page A15)
1 x UEBSBMD-260V 40S	Assembly cover, blank, quadrangular	(page A07)
2 x UEBSMSP 60	Plastic side panels	(page A07)
2 x UEBSV-50	Corner connector	(page A13)



UEBSES end piece

article number	H _{min} mm	N mm	B mm	G kg
S				
UEBSES 60-20S	60	+ 50	200	0,53
UEBSES 60-30S	60	+ 50	300	0,92
UEBSES 60-40S	60	+ 50	400	1,11
UEBSES 60-50S	60	+ 50	500	1,66
UEBSES 100-20S	100	+ 50	200	0,64
UEBSES 100-30S	100	+ 50	300	0,99
UEBSES 100-40S	100	+ 50	400	1,34
UEBSES 100-50S	100	+ 50	500	1,96

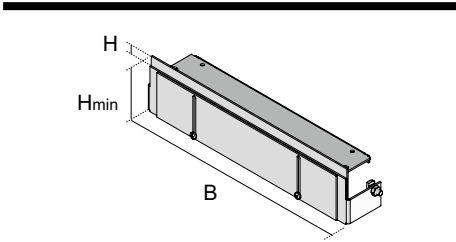


Screed flush duct systems

Screed flush duct | Mounting kit

UEBSESK End piece, cartridge

article number	H mm	H _{min} mm	N mm	B mm	G kg
S					
UEBSESK15 60-20S	12	60	+ 50	200	0,57
UEBSESK15 60-30S	12	60	+ 50	300	0,88
UEBSESK15 60-40S	12	60	+ 50	400	1,18
UEBSESK15 60-50S	12	60	+ 50	500	1,38
UEBSESK15 100-20S	12	100	+ 50	200	0,68
UEBSESK15 100-30S	12	100	+ 50	300	1,05
UEBSESK15 100-40S	12	100	+ 50	400	1,42
UEBSESK15 100-50S	12	100	+ 50	500	1,68
UEBSESK25 60-20S	22	60	+ 50	200	0,60
UEBSESK25 60-30S	22	60	+ 50	300	0,93
UEBSESK25 60-40S	22	60	+ 50	400	1,25
UEBSESK25 60-50S	22	60	+ 50	500	1,46
UEBSESK25 100-20S	22	100	+ 50	200	0,71
UEBSESK25 100-30S	22	100	+ 50	300	1,21
UEBSESK25 100-40S	22	100	+ 50	400	1,49
UEBSESK25 100-50S	22	100	+ 50	500	1,76



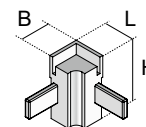
Screed flush duct systems

Screed flush duct | Accessories

UEBSV Corner connector

Corner connector made of plastic material for inside and outside

article number	H mm	B mm	L mm	G kg
PA				
UEBSV	57	28	28	0,03
UEBSV-50	50	28	28	0,02

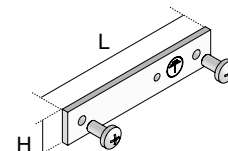


UEBSV S coupler

article number	H mm	L mm	G kg
S			
UEBSV S	16	80	0,04

accessories included:

2 x **LKS M5x10** Lens head screw (page A16)

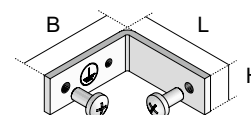


UEBSVE S Corner connector

article number	H mm	B mm	L mm	G kg
S				
UEBSVE S	16	43	43	0,04

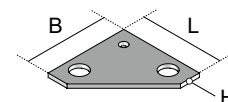
accessories included:

2 x **LKS M5x10** Lens head screw (page A16)



UEBSVMB S Corner connection sheet steel

article number	H mm	B mm	L mm	G kg
S				
UEBSVMB S	2	40	40	0,02



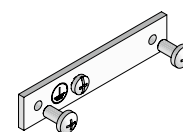
UEBSE earthing connector

article number	G kg
S	
UEBSE	0,04

accessories included:

2 x **LKS M5x10** Lens head screw (page A16)

1 x **LKS M4x5** Lens head screw (page A16)



UEBSEL Earthing lug set

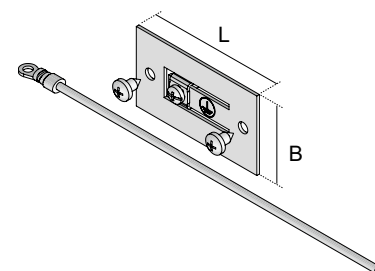
article number	B mm	L mm	G kg
S			
UEBSEL	40	70	0,05

accessories included:

2 x **BLS 4.8x9.5** tapping screw (page D49)

1 x **LKS M4x12** Lens head screw (page A16)

1 x **UVA-GB-2.5-30** grounding line (page C37)



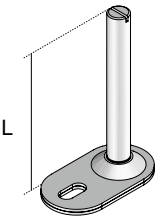
Screed flush duct systems

Screed flush duct | Accessories

UBDSLFL

levelling support

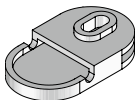
article number	L mm	G kg
S		
UBDSLFL 60	60	0,07
UBDSLFL 80	80	0,07
UBDSLFL 150	150	0,09



UGM SLF

Subsonic noise sleeve socket - levelling support

article number	G kg
PVC	
UGM-SLF	0,01

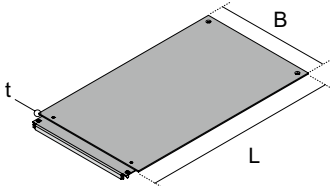


UEBSD

dummy cover

article number	B mm	L mm	t mm	G kg
S				
UEBSD 20S	200	500	3	2,48

accessories included:
1 x **UEBSQT 20S** transverse cross bar (page A15)



article number	B mm	L mm	t mm	G kg
S				
UEBSD 30S	300	500	3	3,76

accessories included:
1 x **UEBSQT 30S** transverse cross bar (page A15)

article number	B mm	L mm	t mm	G kg
S				
UEBSD 40S	400	500	3	5,05

accessories included:
1 x **UEBSQT 40S** transverse cross bar (page A15)

article number	B mm	L mm	t mm	G kg
S				
UEBSD 50S	500	500	3	6,40

accessories included:
2 x **UEBSQT 50S** transverse cross bar (page A15)

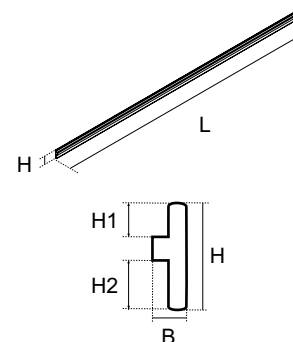
Screed flush duct systems

Screed flush duct | Accessories

UEBSPT AL carpet flange with hem 0/3 mm

flooring height 0 or 3 mm

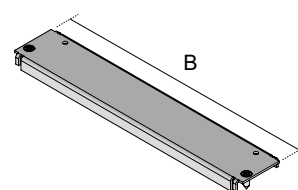
article number	H mm	L mm	G kg
AL			
UEBSPT-3 AL	14	2000	0,04



UEBSQT transverse cross bar

article number	B mm	G kg
S		
UEBSQT 20S	200	0,19
UEBSQT 30S	300	0,31

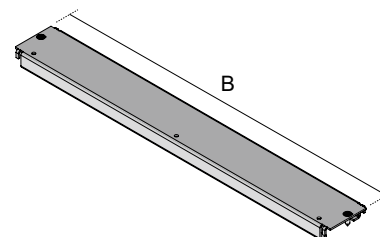
accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



UEBSQT S transverse cross bar

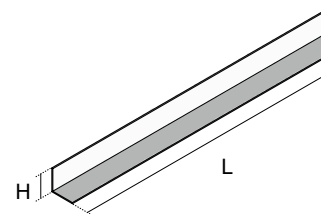
article number	B mm	G kg
S		
UEBSQT 40S	400	0,42
UEBSQT 50S	500	0,59

accessories included:
2 x **BSS 4.8x16** Flat head tapping screw (page A16, D49)



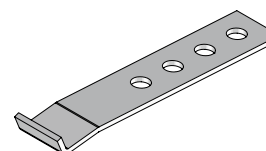
UEBSTR barrier strip

article number	H mm	L mm	G kg
PA			
UEBSTR 40	40	2000	0,50
UEBSTR 80	80	2000	0,66



UEBSEA screed anchor

article number	G kg
S	
UEBSEA	0,02

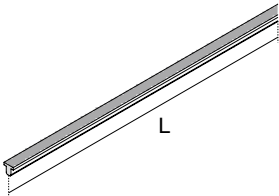


Screed flush duct systems

Screed flush duct | Accessories

UEBSPGD Rubber sealing

article number	L mm	G kg
G		
UEBSPGD	2000	0,21



LKS Lens head screw

article number	L mm	G kg/100
GV		
LKS M4x5	5	0,01
LKS M4x12	12	0,01
LKS M5x10	10	0,01



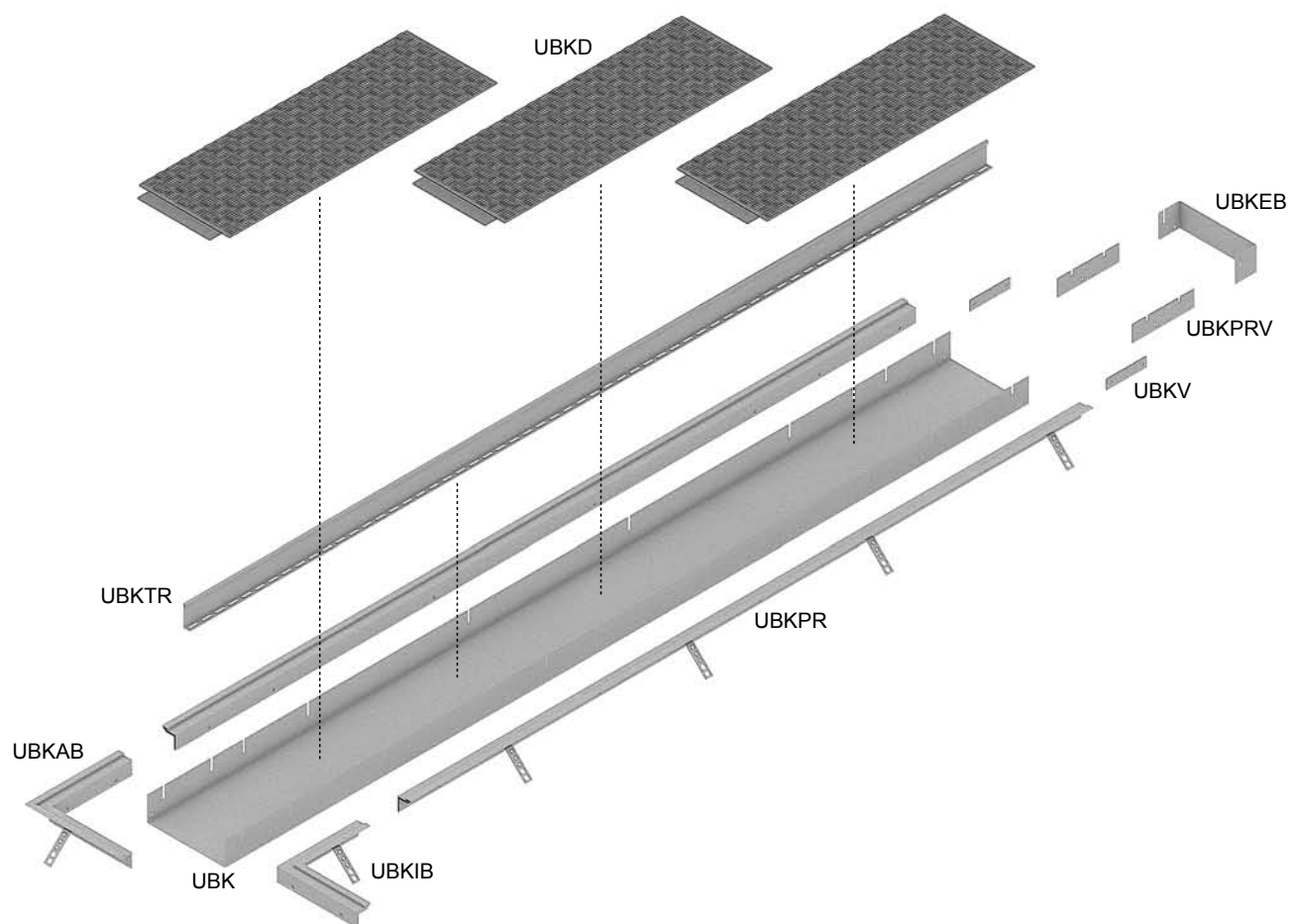
BSS Flat head tapping screw

article number	L mm	G kg
GV		
BSS 4.8x16	16	<0.01



System overview

Screed flush duct systems



Screed flush duct systems

Heavy-duty floor duct

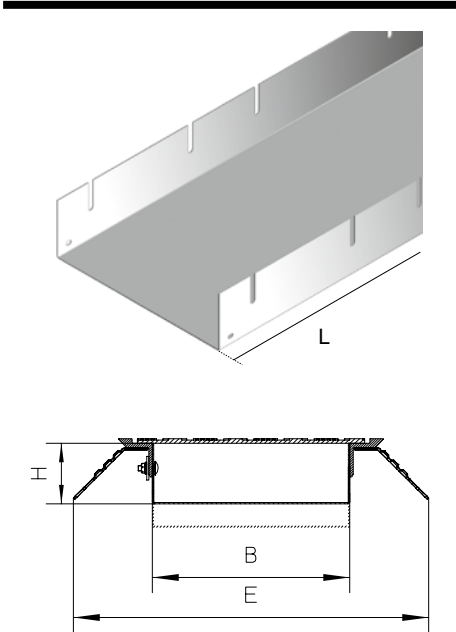
UBK bottom piece

Screed-flush heavy-duty duct as an open duct bottom piece.
The screed flush heavy-duty duct consists of the following parts: 1x heavy-duty duct bottom piece UBK; 3x heavy-duty dummy covers UBKD; 2x side profiles UBKPR with appropriate installation and connection materials. Other dimensions on request.
For an application example, see the chapter assembly.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E mm	G kg
S					
UBK 100-20S	90	194	3000	450	17,20
UBK 100-30S	90	294	3000	550	21,90
UBK 100-40S	90	394	3000	650	26,90
UBK 135-20S	125	194	3000	450	18,80
UBK 135-30S	125	294	3000	550	25,20
UBK 135-40S	125	394	3000	650	30,00
UBK 170-20S	160	194	3000	450	23,80
UBK 170-30S	160	294	3000	550	28,50
UBK 170-40S	160	394	3000	650	33,30

accessories optional:

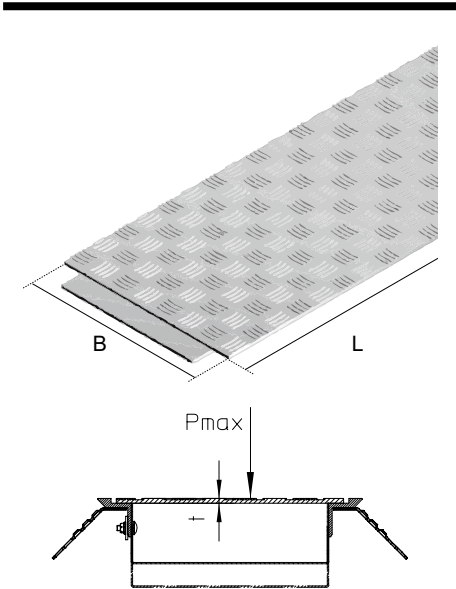
UBKV	coupler	(page A21)
UBKDB	spacer	(page A21)
SNA	nail plug	(page B20)
UBKD	dummy cover	(page A18)
UBKPR	side profile	(page A19)



UBKD dummy cover

For an application example, see the chapter assembly.

article number	B mm	L mm	t mm	P _{max} kN	G kg
F					
UBKD5 25F	238	1000	5	5	9,80
UBKD5 35F	338	1000	5	5	13,70
UBKD5 45F	438	1000	5	5	17,70
UBKD8 25F	250	1000	8	15	15,70
UBKD8 35F	350	1000	8	15	22,00
UBKD8 45F	450	1000	8	15	28,30
UBKD10 25F	250	1000	10	25	19,70
UBKD10 35F	350	1000	10	25	27,50
UBKD10 45F	450	1000	10	25	35,40



Screed flush duct systems

Heavy-duty floor duct

UBKPR side profile

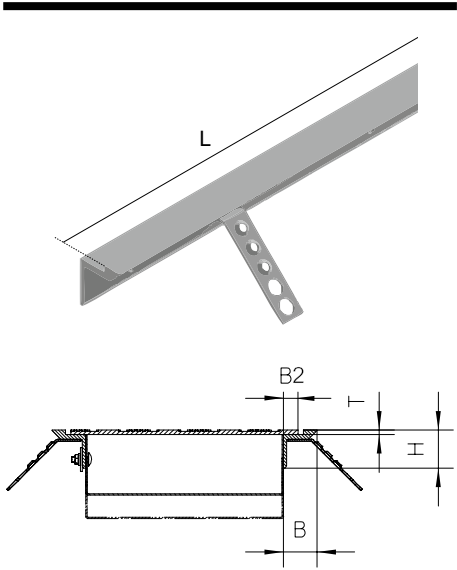
article number	H mm	B mm	B2 mm	L mm	Tiefe mm	G kg
F						
UBKPR5F	45	40	24	3000	5	10,80
UBKPR8F	57	50	30	3000	7	14,60
UBKPR10F	60	50	30	3000	10	18,30

accessories included:

5 x FRS 8x25	round-head screw with square, DIN 603	(catalogue cable trays)
5 x SEMS 8	hexagon nut, self-locking, DIN 6923	(catalogue cable trays)
1 x UBKPRV	coupler	(page A21)

accessories optional:

UGD 20	rubber strips	(page C38)
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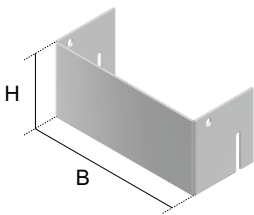
Screed flush duct systems

Heavy-duty floor duct | Fittings

UBKEB end piece

article number	H mm	B mm	G kg
S			
UBKEB 100-20S	86	188	0,40
UBKEB 100-30S	86	288	0,60
UBKEB 100-40S	86	388	0,70
UBKEB 135-20S	121	188	0,60
UBKEB 135-30S	121	288	0,80
UBKEB 135-40S	121	388	1,00
UBKEB 170-20S	156	188	0,80
UBKEB 170-30S	156	288	1,10
UBKEB 170-40S	156	388	1,30

accessories optional:
KLS fixing set (catalogue cable trays)

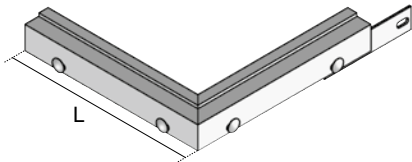


UBKIB inward profile bend

article number	L mm	G kg
F		
UBKIB5F	300	2,50
UBKIB8F	300	3,00
UBKIB10F	300	3,60

accessories included:
1 x **UBKPRV** coupler (page A21)
4 x **FRS 8x25** round-head screw with square, DIN 603 (catalogue cable trays)
4 x **SEMS 8** hexagon nut, self-locking, DIN 6923 (catalogue cable trays)

accessories optional:
UBKV coupler (page A21)

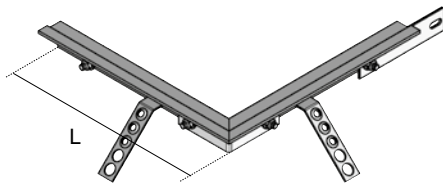


UBKAB outward profile bend

article number	L mm	G kg
F		
UBKAB5F	340	2,50
UBKAB8F	350	3,10
UBKAB10F	350	4,20

accessories included:
1 x **UBKPRV** coupler (page A21)
1 x **UBKPRVE** coupler (page A21)
4 x **SEMS 8** hexagon nut, self-locking, DIN 6923 (catalogue cable trays)
4 x **FRS 8x25** round-head screw with square, DIN 603 (catalogue cable trays)

accessories optional:
UBKV coupler (page A21)



Screed flush duct systems

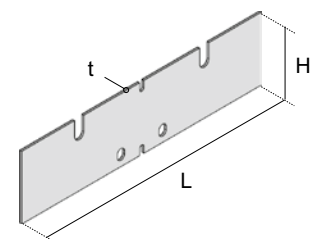
Heavy-duty floor duct | Accessories

UBKV coupler

article number	H mm	L mm	t mm	G kg
S				
UBKV 100S	60	230	2	0,21
UBKV 135S	95	230	2	0,34
UBKV 170S	130	230	2	0,46

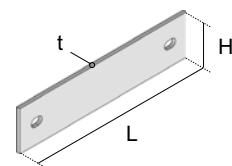
accessories included:

2 x **FRS 8x25** round-head screw with square, DIN 603 (catalogue cable trays)
 2 x **SEMS 8** hexagon nut, self-locking, DIN 6923 (catalogue cable trays)



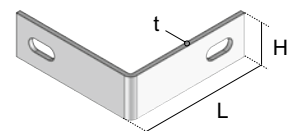
UBKPRV coupler

article number	H mm	L mm	t mm	G kg
S				
UBKPRV	35	150	3	0,16



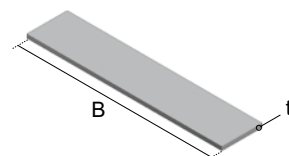
UBKPRVE coupler

article number	H mm	L mm	t mm	G kg
S				
UBKPRVE	30	90	3	0,20



UBKDB spacer

article number	B mm	t mm	G kg
F			
UBKDB5 25F	242	5	0,25
UBKDB5 35F	342	5	0,35
UBKDB5 45F	442	5	0,45
UBKDB8 25F	254	5	0,27
UBKDB8 35F	354	5	0,37
UBKDB8 45F	454	5	0,57

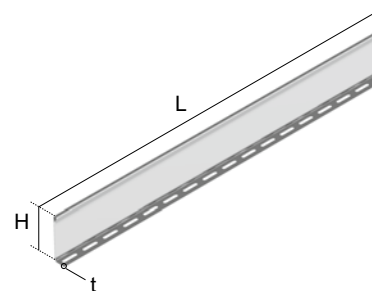


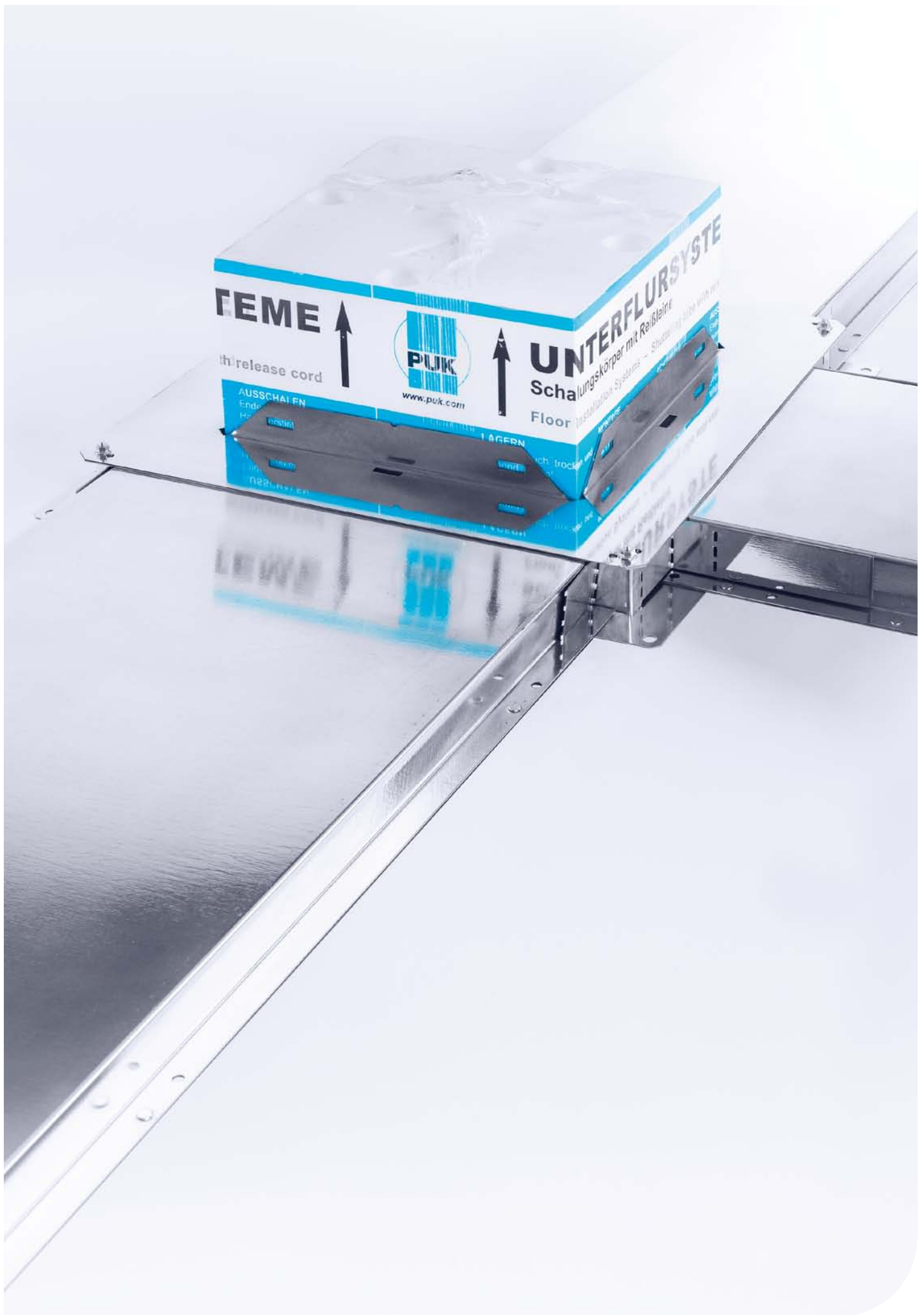
UBKTR barrier strip

article number	H mm	L mm	t mm	G kg
S				
UBKTR 100S	80	3000	1	6,30
UBKTR 135S	115	3000	1	8,20
UBKTR 170S	150	3000	1	10,10

accessories optional:

SNA nail plug (page B20)





Floor trunking systems

Under floor duct system	B04-B11
Cable duct system	B14-B17
Shuttering unit	B18-B19
Accessories	B20-B21



Numeric index

Floor trunking systems

S

SNA nail plug [B20](#)

U

UB Jointing bracket [B05](#)

UBDEL grounding lug [B20](#)

UBDHB 122R Hollow-space floor box, single, round [B10](#)

UBDHB Z grounding clamp [B20](#)

UBDHB190 1V Hollow space floor box single, quadrangular [B10](#)

UBDHB250 2R hollow space floor box double, round [B09](#)

UBDHB250 2V hollow space floor box double, quadrangular [B09](#)

UBDHB250 3V hollow space floor box triple, quadrangular [B08](#)

UBDHB350 2R hollow space floor box double, round [B08](#)

UBDHB350 3R hollow space floor box triple, round [B07](#)

UBDHB350 3V hollow space floor box triple, quadrangular [B07](#)

UBKM Bitumen glue [B20](#)

UBP VR Dummy cover assembly opening [B21](#)

UE end piece [B06](#)

UGKB protection strip [B20](#)

UK screed covered duct, 2 compartments [B04](#)

UKAZ extension accessories [B16](#)

UKBS channel partition - fire resistant [B11](#)

UKBSR EasyFoam foam plugs [B11](#)

UKD dummy cover for cable duct [B15](#)

UKDA 185V cable duct assembly cover, quadrangular [B16](#)

UKDA 260R cable duct assembly cover, round [B15](#)

UKDA 260V cable duct assembly cover, quadrangular [B15](#)

UKDA 308R cable duct assembly cover, round [B15](#)

UKEB end piece [B16](#)

UKL screed covered duct, 3 compartments [B04](#)

UKR 2 cable duct bottom piece 2 compartments [B14](#)

UKR 3 cable duct bottom piece 3 compartments [B14](#)

UKTR barrier strip [B17](#)

UM mounting sleeve [B06](#)

UN nail plug [B20](#)

UNSKH R shuttering unit, levellable, round [B19](#)

UNSKH V shuttering unit, levellable, quadrangular [B19](#)

USK shuttering unit quadrangular [B18](#)

USKH Heat-resistant formwork element, quadrangular [B19](#)

USKR Formwork element, round [B18](#)

USR shuttering tube [B18](#)

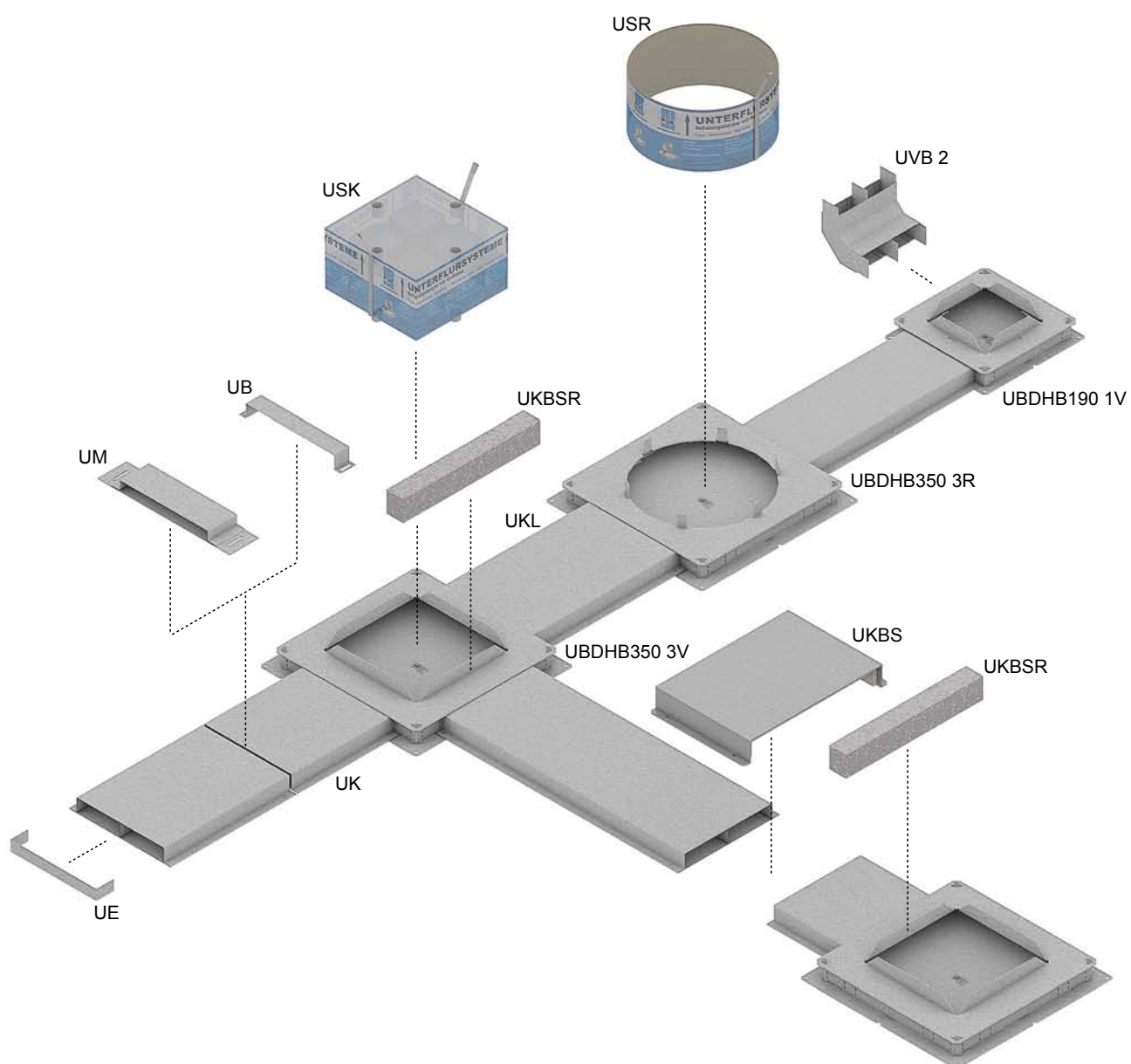
USRH Heat-resistant formwork pipe, round [B18](#)

UVB 2 vertical bend, 2 partitions [B05](#)

UVB 3 vertical bend, 3 partitions [B05](#)

System overview

Floor trunking systems



Floor trunking systems

Under floor duct system | Duct

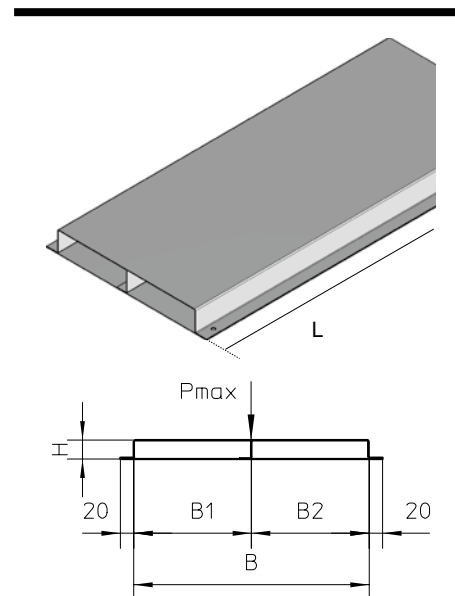
UK screed covered duct, 2 compartments

Screed-covered double-compartment duct, upper and lower part fixed together.

article number	H mm	B mm	B1 mm	B2 mm	L mm	P _{max} kN	G kg
S							
UK 2-28-190S	28	190	95	95	3000	0,75	15,50
UK 2-28-250S	28	250	125	125	3000	0,75	19,00
UK 2-28-350S	28	350	175	175	3000	0,75	24,70
UK 2-38-190S	38	190	95	95	3000	0,75	16,50
UK 2-38-250S	38	250	125	125	3000	0,75	19,80
UK 2-38-350S	38	350	175	175	3000	0,75	25,50
UK 2-48-190S	48	190	95	95	3000	0,75	17,30
UK 2-48-250S	48	250	125	125	3000	0,75	20,70
UK 2-48-350S	48	350	175	175	3000	0,75	26,80

accessories optional:

UB	Jointing bracket	(page B05)
UGKB	protection strip	(page B20)
UN	nail plug	(page B20)



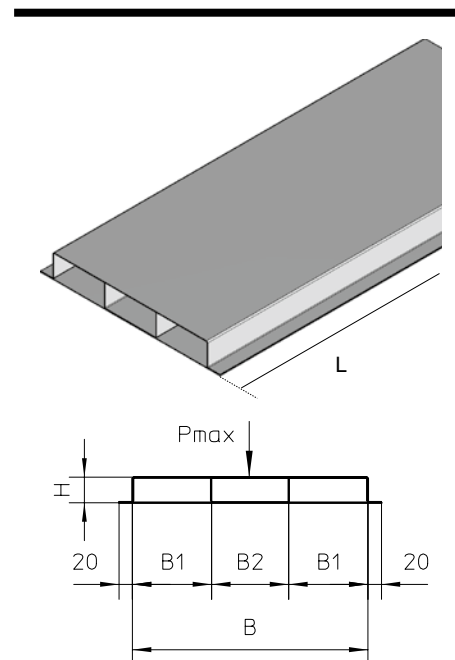
UKL screed covered duct, 3 compartments

Screed-covered triple-compartment duct, upper and lower part fixed together.

article number	H mm	B mm	B1 mm	B2 mm	L mm	P _{max} kN	G kg
S							
UKL 3-28-250S	28	250	82	84	3000	0,75	17,90
UKL 3-28-350S	28	350	116	116	3000	0,75	23,30
UKL 3-38-250S	38	250	82	84	3000	0,75	18,70
UKL 3-38-350S	38	350	116	116	3000	0,75	24,20
UKL 3-48-250S	48	250	82	84	3000	0,75	19,70
UKL 3-48-350S	48	350	116	116	3000	0,75	25,10

accessories optional:

UB	Jointing bracket	(page B05)
UGKB	protection strip	(page B20)
UN	nail plug	(page B20)



Floor trunking systems

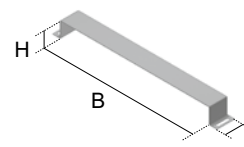
Under floor duct system | Duct

UB Jointing bracket

article number	H mm	B mm	L mm	G kg
S				
UB 28-190S	28	194	42	0,09
UB 28-250S	28	254	42	0,11
UB 28-350S	28	354	42	0,14
UB 38-190S	38	194	42	0,10
UB 38-250S	38	254	42	0,12
UB 38-350S	38	354	42	0,15
UB 48-190S	48	194	42	0,10
UB 48-250S	48	254	42	0,12
UB 48-350S	48	354	42	0,16

accessories optional:

UN nail plug (page B20)



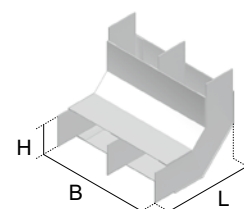
UVB 2 vertical bend, 2 partitions

article number	H mm	B mm	L mm	G kg
S				
UVB 2-28-190S	29	186	132	1,16
UVB 2-28-250S	29	246	132	1,39
UVB 2-28-350S	29	346	132	1,95
UVB 2-38-190S	39	186	132	1,31
UVB 2-38-250S	39	246	132	1,50
UVB 2-38-350S	39	346	132	2,05
UVB 2-48-190S	49	186	132	1,46
UVB 2-48-250S	49	246	132	1,75
UVB 2-48-350S	49	346	132	2,20

accessories optional:

UB Jointing bracket (page B05)

UN nail plug (page B20)



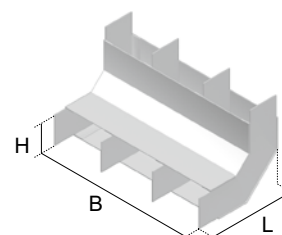
UVB 3 vertical bend, 3 partitions

article number	H mm	B mm	L mm	G kg
S				
UVB 3-28-250S	29	246	132	1,55
UVB 3-28-350S	29	346	132	2,20
UVB 3-38-250S	39	246	132	1,70
UVB 3-38-350S	39	346	132	2,40
UVB 3-48-250S	49	246	132	1,95
UVB 3-48-350S	49	346	132	2,60

accessories optional:

UB Jointing bracket (page B05)

UN nail plug (page B20)



B

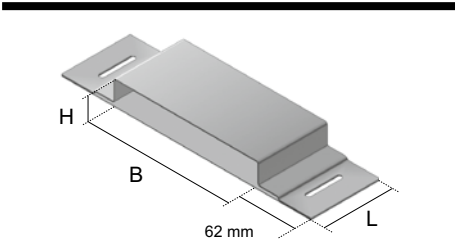
Floor trunking systems

Under floor duct system | Duct

UM mounting sleeve

article number	H mm	B mm	L mm	G kg
S				
UM 28-190S	28	194	82	0,55
UM 28-250S	28	254	82	0,64
UM 28-350S	28	354	82	0,80
UM 38-190S	38	194	82	0,56
UM 38-250S	38	254	82	0,66
UM 38-350S	38	354	82	0,82
UM 48-190S	48	194	82	0,58
UM 48-250S	48	254	82	0,68
UM 48-350S	48	354	82	0,84

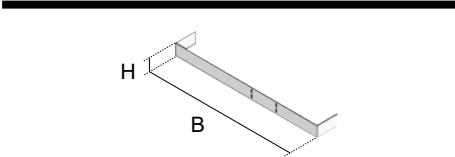
accessories optional:
 UN nail plug (page B20)



UE end piece

Suitable for B = 190, 250 and 350 mm.

article number	H mm	B mm	G kg
S			
UE 28-350S	26	347	0,14
UE 38-350S	36	347	0,17
UE 48-350S	46	347	0,20



Floor trunking systems

Under floor duct system | Hollow space floor box

UBDHB350 3V hollow space floor box triple, quadrangular

Hollow space floor box with an installation opening of 261x261 mm for quadrangular installation units.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B1 mm	B2 mm	L1 mm	L2 mm	E mm	G kg
S								
UBDHB350 28-259V	31	67	410	450	410	450	262 x 262	3,90
UBDHB350 38-259V	41	77	410	450	410	450	262 x 262	4,00
UBDHB350 48-259V	51	87	410	450	410	450	262 x 262	4,10

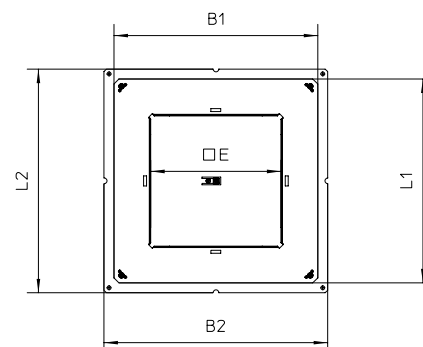
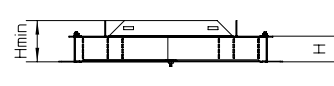
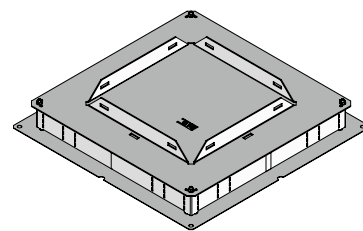
accessories included:

1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:

USK shuttering unit quadrangular (page B18)

UN nail plug (page B20)



UBDHB350 3R hollow space floor box triple, round

Hollow space floor box with an installation opening of 307 mm for round installation units.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B1 mm	B2 mm	L1 mm	L2 mm	E mm	G kg
S								
UBDHB350 28-308R	31	67	410	450	410	450	310	3,40
UBDHB350 38-308R	41	77	410	450	410	450	310	3,50
UBDHB350 48-308R	51	87	410	450	410	450	310	3,60

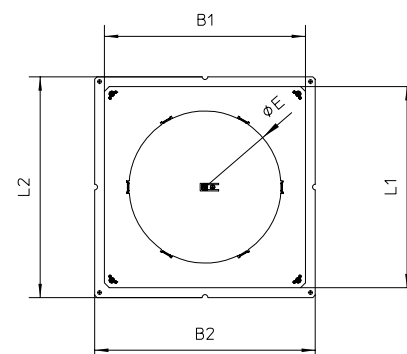
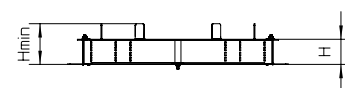
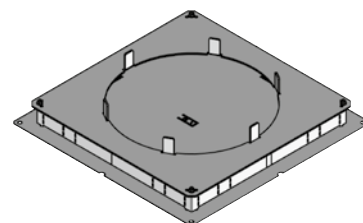
accessories included:

1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:

USR shuttering tube (page B18)

UN nail plug (page B20)



Floor trunking systems

Under floor duct system | Hollow space floor box

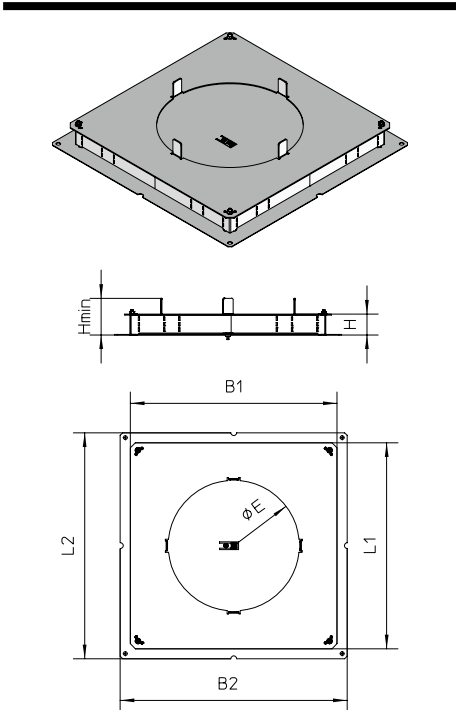
UBDHB350 2R hollow space floor box double, round

Hollow space floor box with an installation opening of 260 mm for round installation units.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B1 mm	B2 mm	L1 mm	L2 mm	E mm	G kg
S								
UBDHB350 28-259R	31	63	410	450	410	450	260	3,80
UBDHB350 38-259R	41	73	410	450	410	450	260	3,90
UBDHB350 48-259R	51	83	410	450	410	450	260	4,00

accessories included:
1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:
USR shuttering tube (page B18)
UN nail plug (page B20)



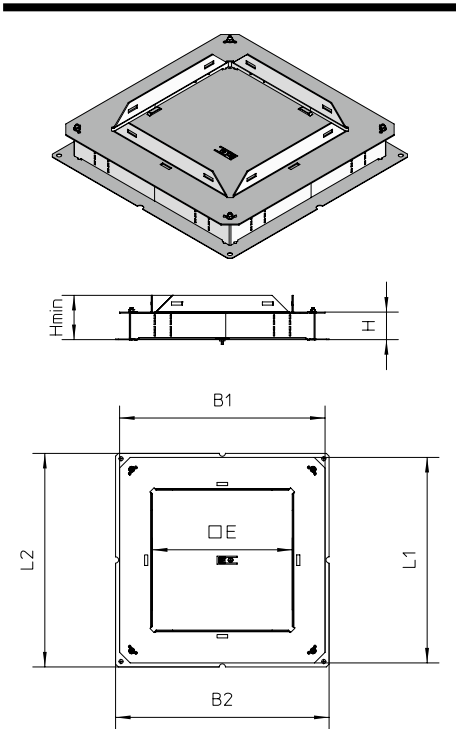
UBDHB250 3V hollow space floor box triple, quadrangular

Hollow space floor box with an installation opening of 261x261 mm for quadrangular installation units.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B1 mm	B2 mm	L1 mm	L2 mm	E mm	G kg
S								
UBDHB250 28-259V	31	67	385	400	385	400	262 x 262	3,30
UBDHB250 38-259V	41	77	385	400	385	400	262 x 262	3,40
UBDHB250 48-259V	51	87	385	400	385	400	262 x 262	3,50

accessories included:
1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:
USK shuttering unit quadrangular (page B18)
UN nail plug (page B20)



Floor trunking systems

Under floor duct system | Hollow space floor box

UBDHB250 2R hollow space floor box double, round

Hollow space floor box with an installation opening of 260 mm for round installation units.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B1 mm	B2 mm	L1 mm	L2 mm	E mm	G kg
S								
UBDHB250 28-259R	31	67	385	400	385	400	260	3,10
UBDHB250 38-259R	41	77	385	400	385	400	260	3,20
UBDHB250 48-259R	51	87	385	400	385	400	260	3,30

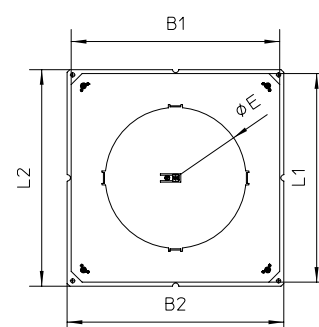
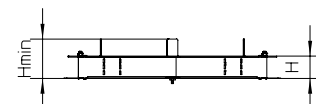
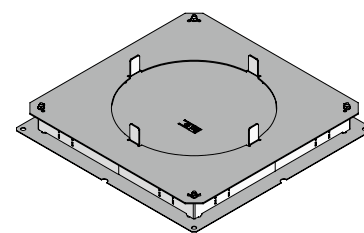
accessories included:

1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:

USR shuttering tube (page B18)

UN nail plug (page B20)



UBDHB250 2V hollow space floor box double, quadrangular

Hollow space floor box with an installation opening of 186x261mm for quadrangular installation units.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B1 mm	B2 mm	L1 mm	L2 mm	E mm	G kg
S								
UBDHB250 28-185V	31	67	385	400	385	400	187 x 262	3,50
UBDHB250 38-185V	41	77	385	400	385	400	187 x 262	3,60
UBDHB250 48-185V	51	87	385	400	385	400	187 x 262	3,70

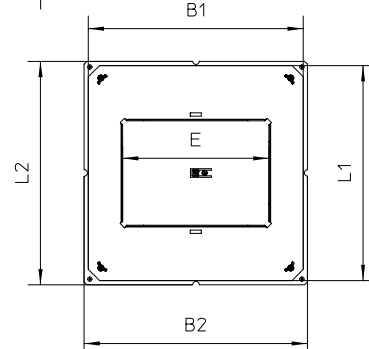
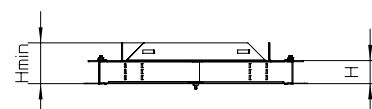
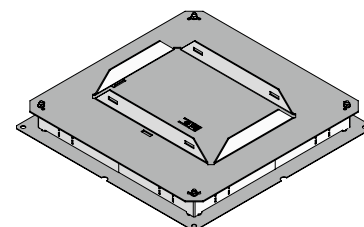
accessories included:

1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:

USK shuttering unit quadrangular (page B18)

UN nail plug (page B20)



Floor trunking systems

Under floor duct system | Hollow space floor box

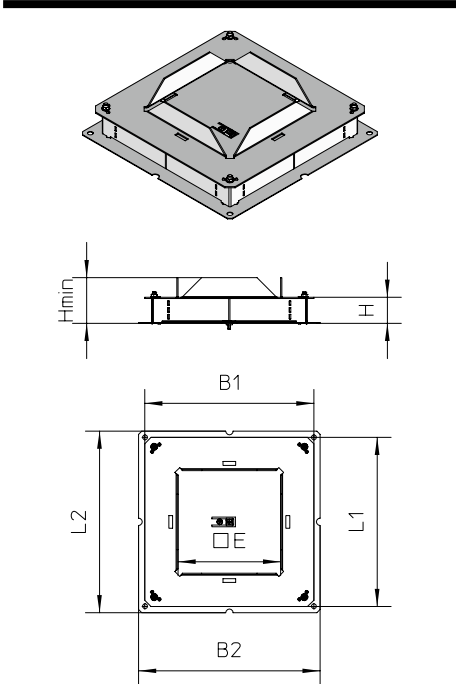
UBDHB190 1V Hollow space floor box single, quadrangular

Hollow space floor box with an installation opening of 164x164mm for quadrangular single outlets.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B1 mm	B2 mm	L1 mm	L2 mm	E mm	G kg
S								
UBDHB190 28-160V	31	67	270	290	270	290	165	1,20
UBDHB190 38-160V	41	77	270	290	270	290	165	1,90
UBDHB190 48-160V	51	87	270	290	270	290	165	2,00

accessories included:
1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:
UN nail plug (page B20)
USK shuttering unit quadrangular (page B18)



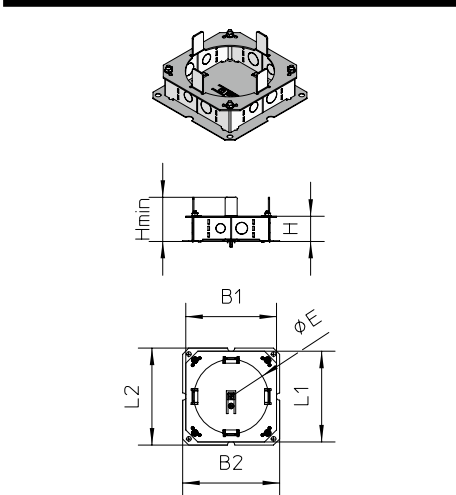
UBDHB 122R Hollow-space floor box, single, round

Hollow space floor box with an installation opening of 122mm for round single outlets.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B1 mm	B2 mm	L1 mm	L2 mm	E mm	G kg
S								
UBDHB 38-122R	42	73	150	160	150	160	123	0,64

accessories included:
1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:
USKR Formwork element, round (page B18)
UN nail plug (page B20)



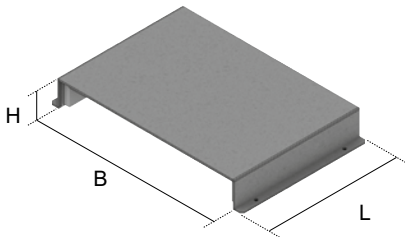
Floor trunking systems

Under floor duct system | Fire protection

UKBS channel partition - fire resistant

To be used in fire protection wall WD90.
For assembly instructions, see the chapter assembly.

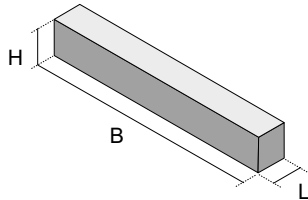
article number	H mm	B mm	L mm	G kg
S				
UKBS 28-350S	28	350	270	2,50
UKBS 38-350S	38	350	270	2,75
UKBS 48-350S	48	350	270	3,00



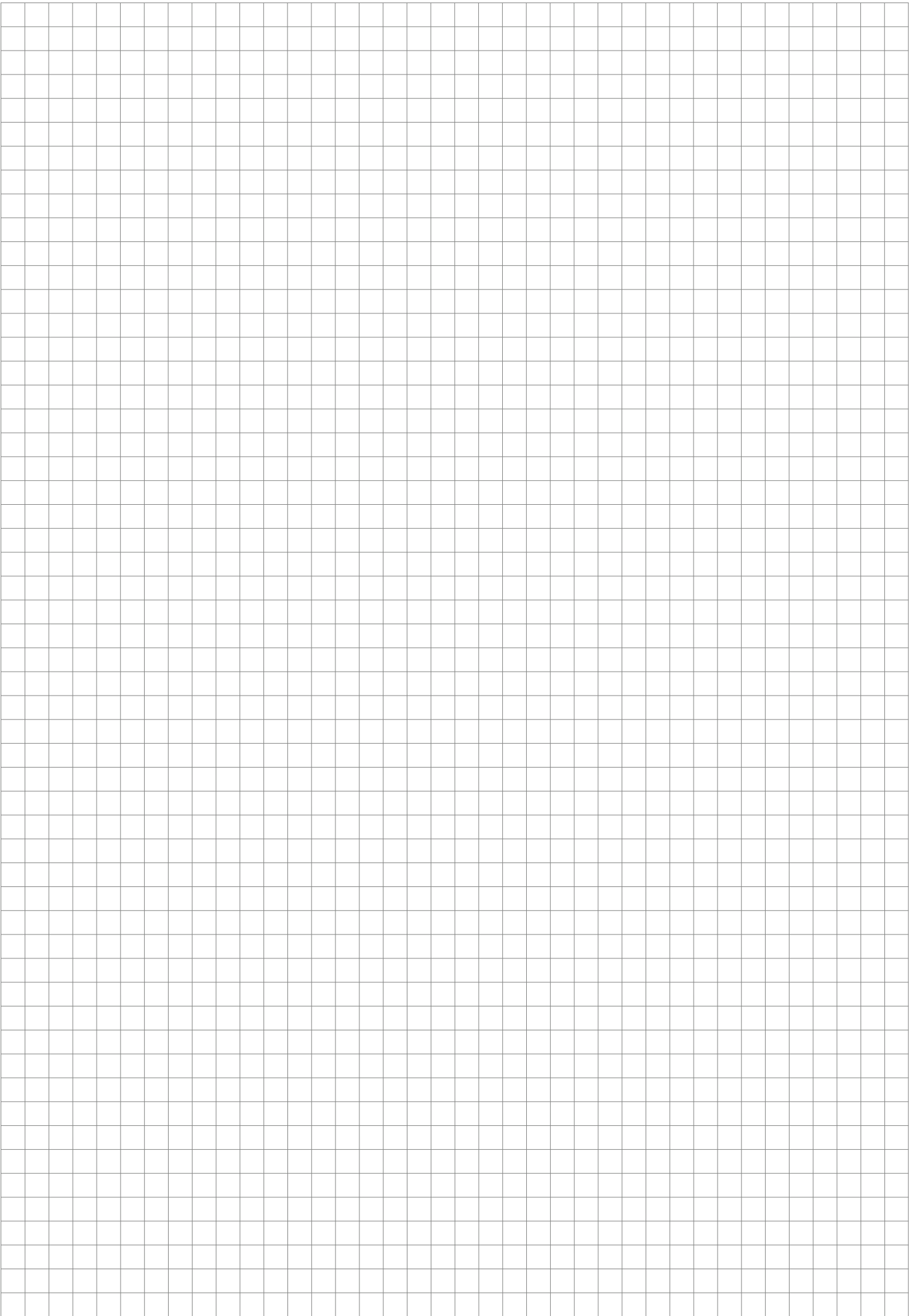
UKBSR EasyFoam foam plugs

For smoke-proof insulation of a hollow space floor box.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	G kg
PC				
UKBSR 28-350S	30	390	60	0,02
UKBSR 38-350S	40	390	60	0,02
UKBSR 48-350S	50	390	60	0,02

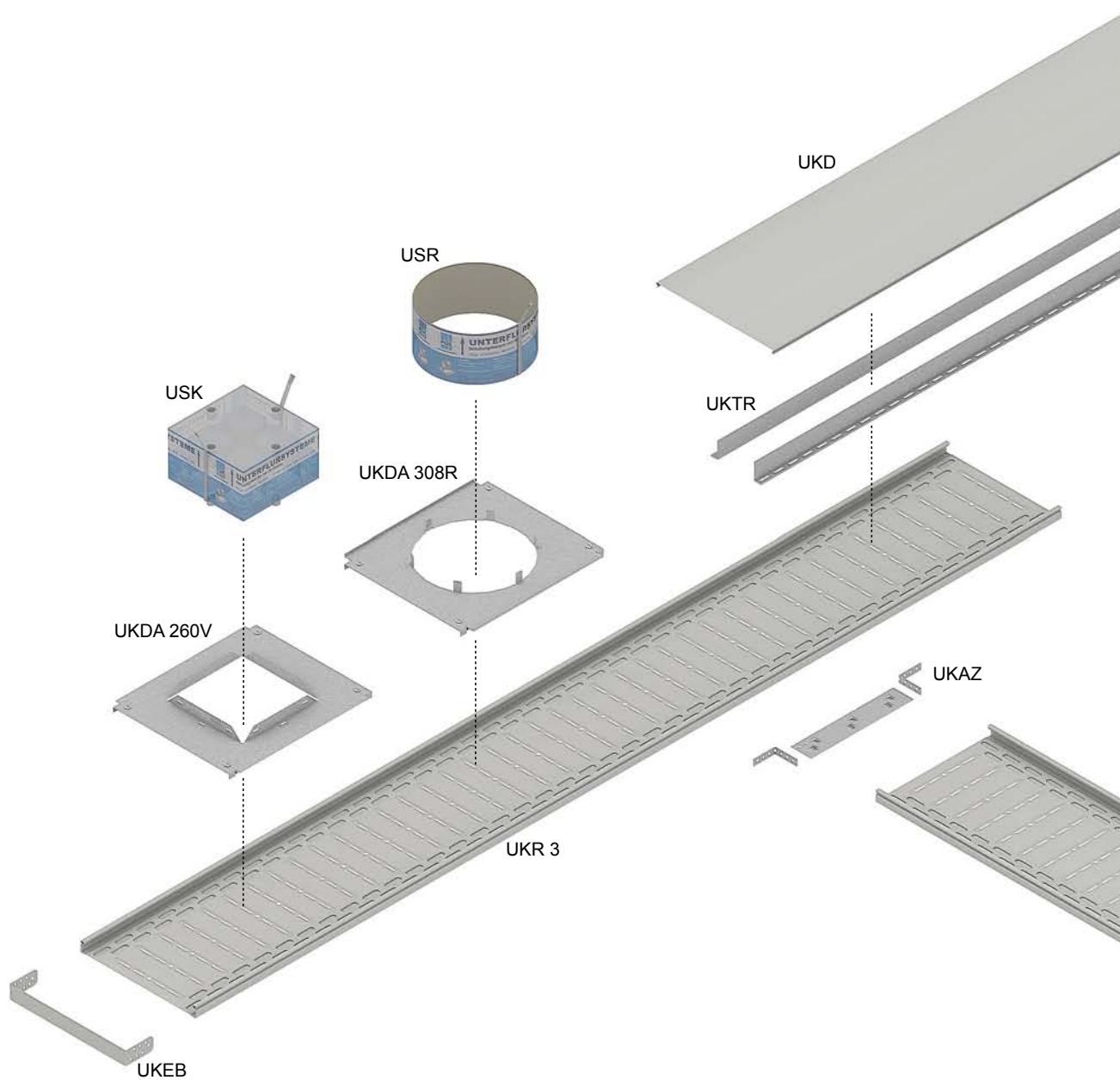


B



System overview

Floor trunking systems



Floor trunking systems

Cable duct system

UKR 2 cable duct bottom piece 2 compartments

The screed-covered cable duct includes the following components: 1x lower part of cable duct UKR, 1x cable duct dummy lid UKD and 1x separating strip UKTR with corresponding installation and connection materials.
For assembly instructions, see the chapter assembly.

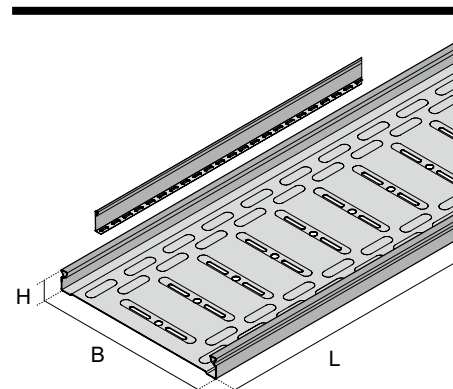
article number	H mm	B mm	L mm	G kg
S				
UKR 35-30S	35	300	3000	8,90

accessories included:

1 x **UKTR 35S** barrier strip (page B17)
3 x **SNA 6x30/5** nail plug (page B20)

accessories optional:

VB connection plate (catalogue cable trays)



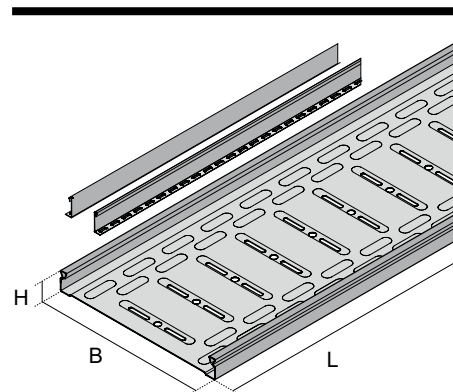
UKR 3 cable duct bottom piece 3 compartments

The screed-covered cable duct includes the following components: 1x lower part of cable duct UKR, 1x cable duct dummy lid UKD and 2x separating strip UKTR with corresponding installation and connection materials.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	G kg
S				
UKR 35-40S	35	400	3000	14,20
UKR 35-50S	35	500	3000	15,40

accessories included:

2 x **UKTR 35S** barrier strip (page B17)
6 x **SNA 6x30/5** nail plug (page B20)



article number	H mm	B mm	L mm	G kg
S				
UKR 60-40S	60	400	3000	19,80
UKR 60-50S	60	500	3000	23,90

accessories included:

2 x **UKTR 60S** barrier strip (page B17)
6 x **SNA 6x30/5** nail plug (page B20)

article number	H mm	B mm	L mm	G kg
S				
UKR 85-40S	85	400	3000	23,40
UKR 85-50S	85	500	3000	27,50

accessories included:

2 x **UKTR 85S** barrier strip (page B17)
6 x **SNA 6x30/5** nail plug (page B20)

article number	H mm	B mm	L mm	G kg
S				
UKR 110-40S	110	400	3000	28,70
UKR 110-50S	110	500	3000	31,00

accessories included:

2 x **UKTR 110S** barrier strip (page B17)
6 x **SNA 6x30/5** nail plug (page B20)

accessories optional:

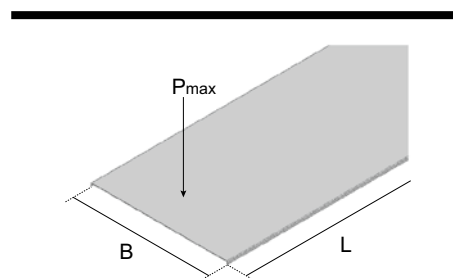
VB connection plate (catalogue cable trays)

Floor trunking systems

Cable duct system

UKD dummy cover for cable duct

article number	B mm	L mm	P _{max} kN	G kg
S				
UKD 30S	300	3000	0,75	7,90
UKD 40S	400	3000	0,75	10,20
UKD 50S	500	3000	0,75	19,00

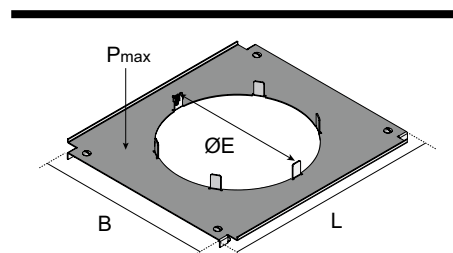


UKDA 308R cable duct assembly cover, round

article number	B mm	L mm	E mm	P _{max} kN	G kg
S					
UKDA-308R 40S	400	495	310	0,75	2,30
UKDA-308R 50S	500	595	310	0,75	3,90

accessories included:
1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:
USR shuttering tube (page B18)
UBDEL grounding lug (page B20)

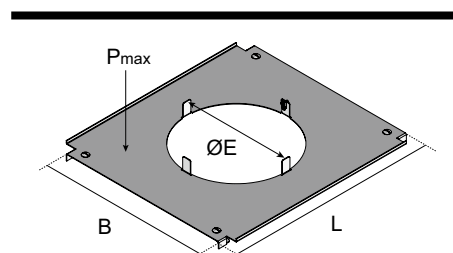


UKDA 260R cable duct assembly cover, round

article number	B mm	L mm	E mm	P _{max} kN	G kg
S					
UKDA-260R 30S	300	420	260	0,75	1,23
UKDA-260R 40S	400	495	260	0,75	2,14
UKDA-260R 50S	500	595	260	0,75	4,47

accessories included:
1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:
USR shuttering tube (page B18)
UBDEL grounding lug (page B20)

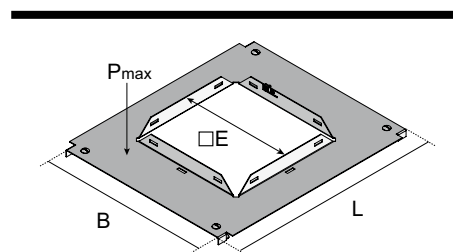


UKDA 260V cable duct assembly cover, quadrangular

article number	B mm	L mm	E mm	P _{max} kN	G kg
S					
UKDA-260V 40S	400	495	262 x 262	0,75	2,03
UKDA-260V 50S	500	595	262 x 262	0,75	3,29

accessories included:
1 x **UBDHB-Z** grounding clamp (page B20)

accessories optional:
USK shuttering unit quadrangular (page B18)
UBDEL grounding lug (page B20)



Floor trunking systems

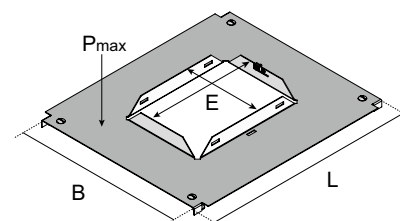
Cable duct system

UKDA 185V cable duct assembly cover, quadrangular

article number	B mm	L mm	E mm	P _{max} kN	G kg
S					
UKDA-185V 30S	300	420	187 x 262	0,75	1,39
UKDA-185V 40S	400	495	187 x 262	0,75	2,26

accessories included:
1 x **UBDHB-Z** grounding clamp (page B20)

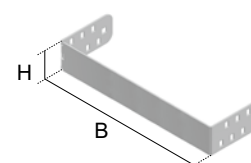
accessories optional:
USK shuttering unit quadrangular (page B18)
UBDEL grounding lug (page B20)



UKEB end piece

article number	H mm	B mm	G kg
S			
UKEB 35-30S	20	300	0,13
UKEB 35-40S	20	400	0,16
UKEB 35-50S	20	500	0,19
UKEB 60-40S	45	400	0,31
UKEB 60-50S	45	500	0,36

accessories included:
1 x **KLR** fixing set (catalogue cable trays)



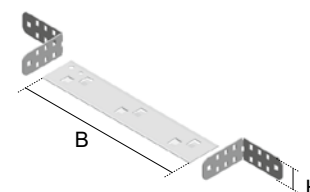
article number	H mm	B mm	G kg
S			
UKEB 85-40S	70	400	0,64
UKEB 85-50S	70	500	0,75
UKEB 110-40S	95	400	0,93
UKEB 110-50S	95	500	1,10

accessories included:
2 x **KLR** fixing set (catalogue cable trays)

UKAZ extension accessories

article number	H mm	B mm	G kg
S			
UKAZ 35-40S	20	400	0,50
UKAZ 35-50S	20	500	0,60
UKAZ 60-40S	45	400	1,20
UKAZ 60-50S	45	500	1,30
UKAZ 85-40S	70	400	1,40
UKAZ 85-50S	70	500	1,60
UKAZ 110-40S	95	400	1,70
UKAZ 110-50S	95	500	1,80

accessories optional:
SNA nail plug (page B20)



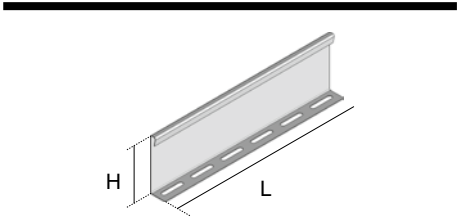
Floor trunking systems

Cable duct system

UKTR barrier strip

article number	H mm	L mm	G kg
S			
UKTR 35S	33	3000	1,60
UKTR 60S	57	3000	2,10
UKTR 85S	80	3000	2,80
UKTR 110S	107	3000	4,80

accessories optional:
SNA nail plug (page B20)



B

Floor trunking systems

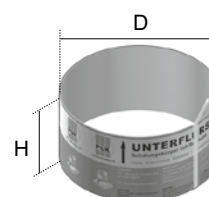
Shuttering unit

USR shuttering tube

Cardboard shuttering tube for the construction of an installation opening for round installation units. To be used in a hollow space floor box.

Caution: insulating strip of max. thickness of 2 mm!

article number	H mm	D mm	G kg
KT			
USR 308-150	150	308	0,42
USR 308-225	225	308	0,60
USR 259-150	150	260	0,30

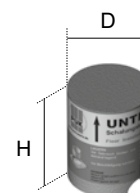


USKR Formwork element, round

Shuttering unit, made of polystyrene, for generating an installation opening for round installation units. To be used in a hollow space floor box.

Caution: insulating strip of max. thickness of 2 mm!

article number	H mm	D mm	G kg
STY			
USK 120R-150	150	122	0,06
USK 120R-82	82	122	0,03

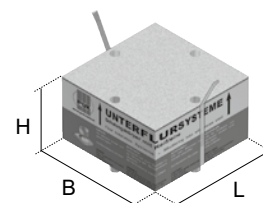


USK shuttering unit quadrangular

Polystyrene shuttering unit for the construction of an installation opening for quadrangular installation units. To be used in a hollow space floor box.

Caution: insulating strip of max. thickness of 2 mm!

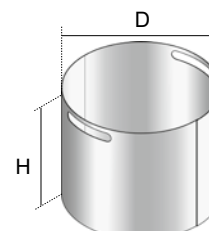
article number	H mm	B mm	L mm	E mm	G kg
STY					
USK 259V-225	225	262	262	262x262	0,24
USK 259V-150	150	262	262	262x262	0,19
USK 185V-150	150	262	186	187x262	0,16
USK 160V-150	150	163	163	165x165	0,08



USRH Heat-resistant formwork pipe, round

Sheet steel shuttering tube for the construction of an installation opening in connection with hot asphalt for quadrangular installation units. To be used in a hollow space floor box.

article number	H mm	D mm	T _{max} °C	TL mm	G kg
S					
USRH 308-200	250	308	250	< 2	1,90



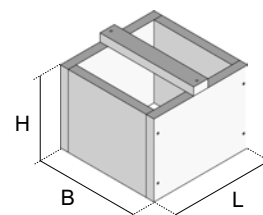
Floor trunking systems

Shuttering unit

USKH Heat-resistant formwork element, quadrangular

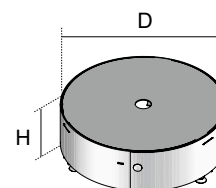
Wooden shuttering unit for the construction of an installation opening in connection with hot asphalt for quadrangular installation units. To be used in a hollow space floor box.

article number	H mm	B mm	L mm	T _{max} °C	TL mm	G kg
H						
USKH 259V-200	200	261	261	250	< 2	2,90



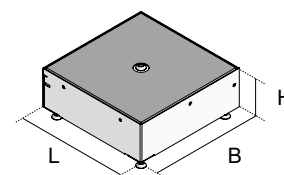
UNSKH R shuttering unit, levellable, round

article number	H mm	N mm	D mm	G kg
S				
UNSKH 308R-100S	96	+59	308	2,44



UNSKH V shuttering unit, levellable, quadrangular

article number	H mm	N mm	B mm	L mm	G kg
S					
UNSKH 260V-100S	96	+59	260	260	2,72



B

Floor trunking systems
Accessories

UN nail plug

article number	G kg
Z	
UN 5/38	< 0.01



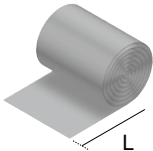
SNA nail plug

article number	G kg
Z	
SNA 6x30/5	0,02



UGKB protection strip

article number	B mm	L mm	G kg
PET			
UGKB	50	50000	0,40



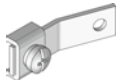
UBKM Bitumen glue

article number	G kg
UBKM	0,50



UBDEL grounding lug

article number	G kg
S	
UBDEL	< 0.01



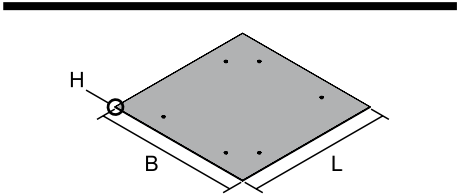
UBDHB Z grounding clamp

article number	G kg
S	
UBDHB-Z	<0.01



UBP VR Dummy cover assembly opening

article number	H mm	B mm	L mm	P _{max} kN	G kg
S					
UBP-VR 2S	2	330	330	0,75	1,71





Installation units for screed and hollow floors

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Cartridge installation unit, quadrangular	C18-C20
Installation unit made of high-grade steel	C22-C39
Single outlet BODO, round	C42-C46
Single outlet, quadrangular	C48-C51
Compact single outlet	C54-C57

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Installation units for screed and hollow floors

B

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BODO N3 Single-outlet with floor socket outlet, wet maintenance, round [C42](#)
BODO NL Single-outlet, wet maintenance, round, empty [C43](#)
BODO T Single-outlet with floor socket outlet, dry maintenance, round [C44](#)
BODO TL Single-outlet, dry maintenance, round, empty [C44](#)

U

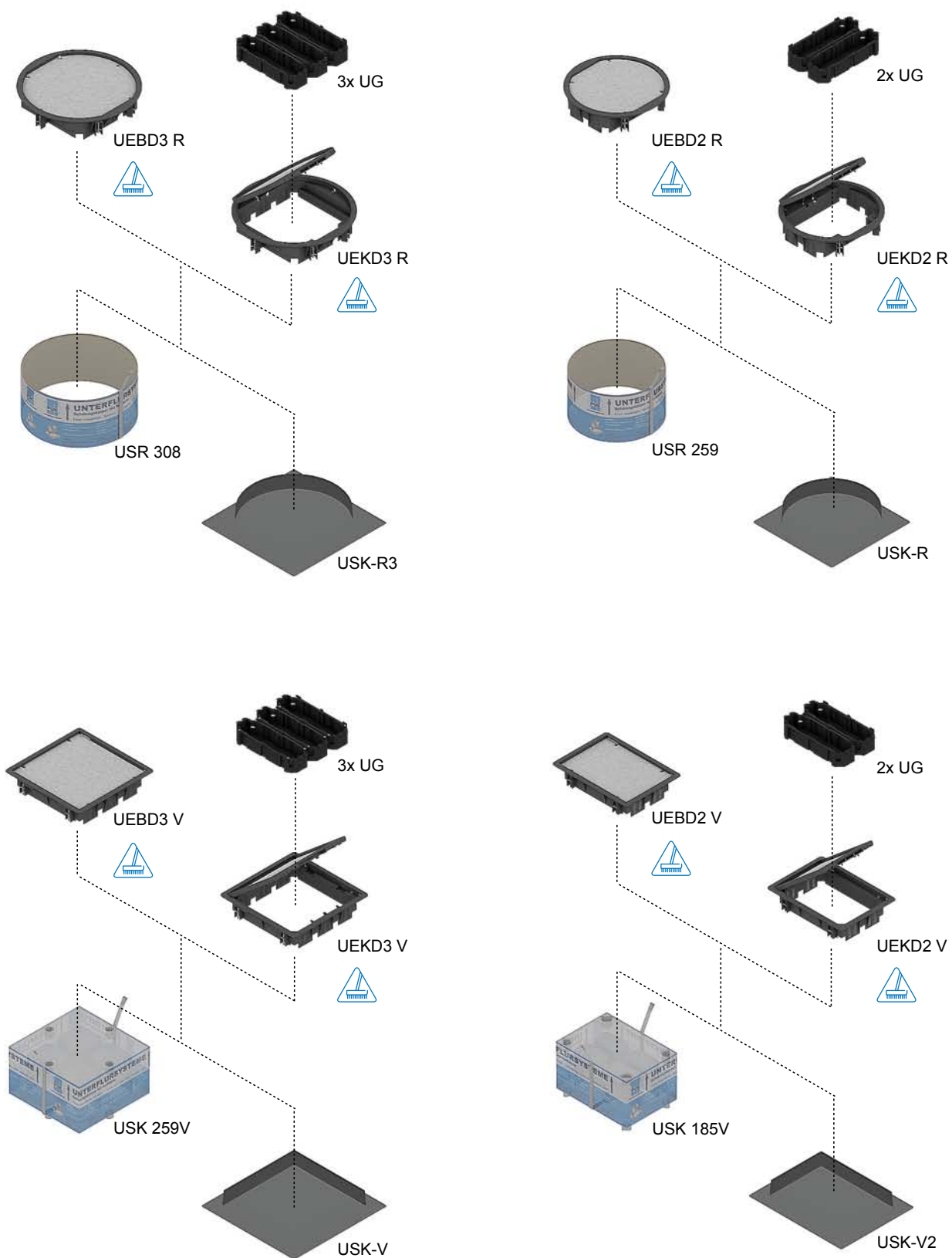
UBDSL levelling support [C39](#)
UBP V Dummy cover, triple, angular [C28](#)
UDBS 40-80 claw for plastic dummy cover [C15](#)
UDBS R 4 hollow space floor claw for Dummy cover [C14](#)
UDBS R 6 hollow space floor claw for Dummy cover, round [C14](#)
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UEBD RP E Dummy cartridge unit, tripple, plan, round [C23](#)
UEBD V cover inlay, dummy cover, quadrangular [C12](#)
UEBD V E triple dummy cartridge unit, quadrangular [C29](#)
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UEBDD1-2 V E cartridge installation unit - dummy cover, single [C18](#)
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UEBDE V cover insert, high-grade steel dummy cartridge, triple [C35](#)
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UEBDME V cover insert, tube outlet cartridge made of high-grade steel, triple [C36](#)
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UEBDSM V heavy-duty tube-cartridge unit triple, quadrangular [C33](#)
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UEK3 ST hinge pin [C07](#)
UEK3 V installation unit - hinged cover triple, quadrangular [C05](#)
UEKA3 cable connection flap [C07](#)
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UEKD R E cartridge cover, triple, round, levellable [C23](#)
UEKD RP E Cable-outlet cartridge unit, tripple, plan, round [C24](#)
UEKD V cover inlay, hinged cover, quadrangular [C12](#)
UEKD V E cartridge unit - hinged cover triple, quadrangular [C31](#)
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UEP160 UST-TR Adapter board, data/multimedia [C56](#)
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USK V shuttering, quadrangular [C13](#)
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UVA GB1 grounding line [C37](#)
UWZ IS Allen wrench [C45](#)

System overview

Installation units for screed and hollow floors



Installation units for screed and hollow floors

Installation unit made of plastic | Brush installation units made of plastic

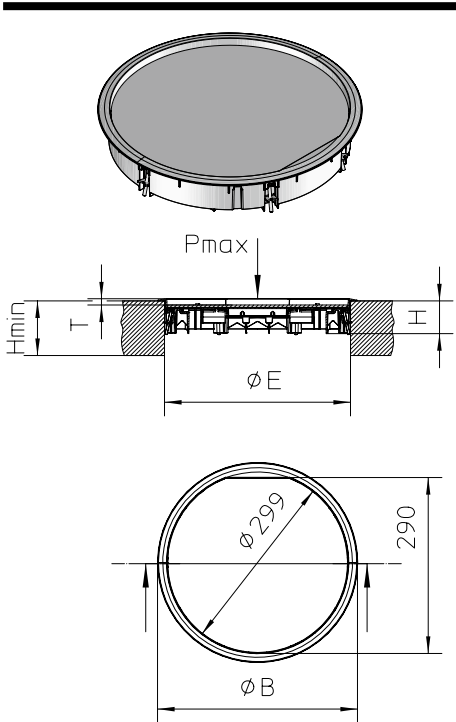
UEB3 R installation unit - dummy cover triple, round

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	G kg
PA									
UEB3-R-G	58	63	330	307	10	2	RAL 7011 (iron grey)	IP 30	2,574
UEB3-R-S	58	63	330	307	10	2	RAL 9011 (graphite black)	IP 30	2,574

accessories included:
6 x **UDKS3-VR** Claw for plastic installation devices (page C06)

accessories optional:
UEB R cover inlay, dummy cover, round (page C06)



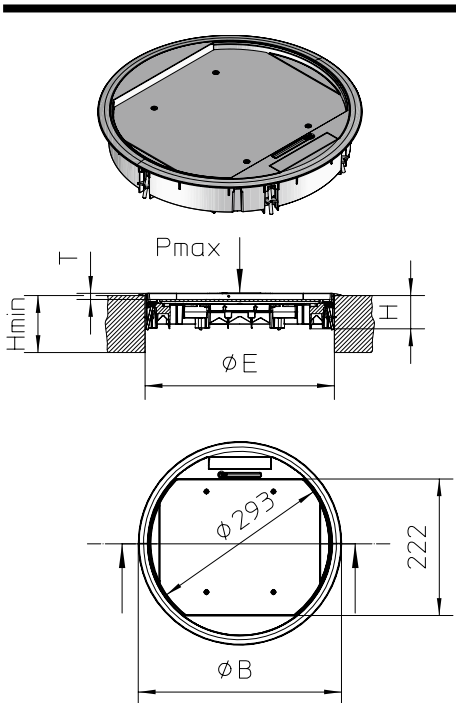
UEK3 R installation unit - hinged cover triple, round

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	IP _g	G kg
PA										
UEK3-R-G	58	63	330	307	10	2	RAL 7011 (iron grey)	IP 30	IP 20	1,935
UEK3-R-S	58	63	330	307	10	2	RAL 9011 (graphite black)	IP 30	IP 20	1,935

accessories included:
6 x **UDKS3-VR** Claw for plastic installation devices (page C06)

accessories optional:
UEK R cover inlay, hinged cover, round (page C06)
UGE A3 set of registering leads (page C06)



Installation units for screed and hollow floors

Installation unit made of plastic | Brush installation units made of plastic

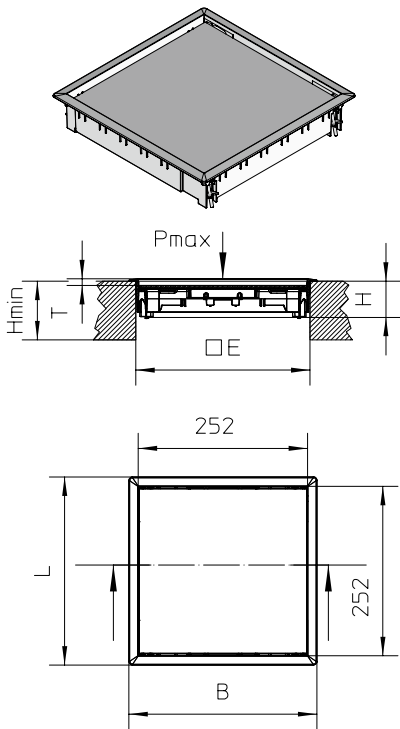
UEB3 V installation unit - dummy cover triple, quadrangular

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	G kg
PA										
UEB3-V-G	58	63	280	280	260x260	10	2	RAL 7011 (iron grey)	IP 30	1,27
UEB3-V-S	58	63	280	280	260x260	10	2	RAL 9011 (graphite black)	IP 30	1,27

accessories included:
4 x **UDKS3-VR** Claw for plastic installation devices (page C06)

accessories optional:
UEB V cover inlay, dummy cover, quadrangular (page C06)



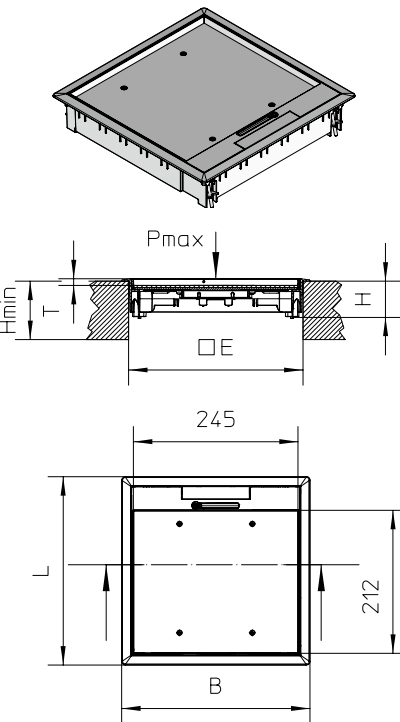
UEK3 V installation unit - hinged cover triple, quadrangular

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	IP _g	G kg
PA											
UEK3-V-G	58	63	280	280	260x260	10	2	RAL 7011 (iron grey)	IP 30	IP 20	1,80
UEK3-V-S	58	63	280	280	260x260	10	2	RAL 9011 (graphite black)	IP 30	IP 20	1,80

accessories included:
4 x **UDKS3-VR** Claw for plastic installation devices (page C06)

accessories optional:
UEK V cover inlay, hinged cover, quadrangular (page C06)
UGE A3 set of registering leads (page C06)



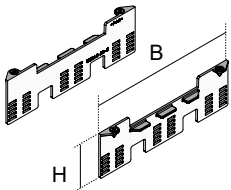
Installation units for screed and hollow floors

Installation unit made of plastic | Accessories plastic brush assembly units

UGEA3

set of registering leads

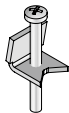
article number	H mm	B mm	colour	lock-in range mm	G kg
PA					
UGEA3-50-S	56	186	RAL 9011 (graphite black)	20	0,05
UGEA3-80-S	81	186	RAL 9011 (graphite black)	25	0,08



UDKS3

Claw for plastic installation devices

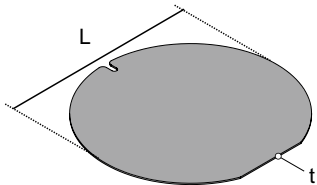
article number	L mm	k mm	piece	G kg
S				
UDKS3-VR	35	35 - 50	1	0,01



UEB R

cover inlay, dummy cover, round

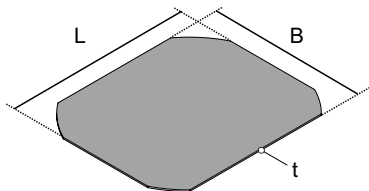
article number	L mm	t mm	G kg
KT			
UEB3-R 2	295	2	0,081
UEB3-R 5	295	5	0,202



UEK R

cover inlay, hinged cover, round

article number	B mm	L mm	t mm	G kg
KT				
UEK3-R 2	219	259	2	0,073
UEK3-R 5	219	259	5	0,182

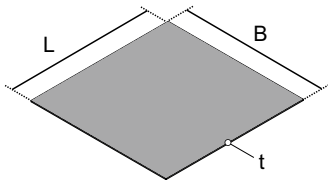


UEB V

cover inlay, dummy cover, quadrangular

Cover inlay of carton, to reduce the floor covering recess in the plastic dummy cover.

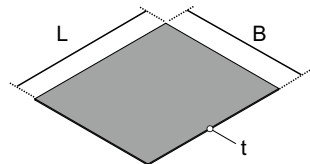
article number	B mm	L mm	t mm	G kg
KT				
UEB3-V 2	245	249	2	0,073
UEB3-V 5	245	249	5	0,207



UEK V

cover inlay, hinged cover, quadrangular

article number	B mm	L mm	t mm	G kg
KT				
UEK3-V 2	210	243	2	0,069
UEK3-V 5	210	243	5	0,173



Installation units for screed and hollow floors

Installation unit made of plastic | Accessories plastic brush assembly units

UEKA3 cable connection flap

article number	colour	G kg
PA		
UEKA3-G	RAL 7011 (iron grey)	0,01
UEKA3-S	RAL 9011 (graphite black)	0,01



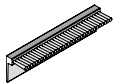
UEKH3 opening lever

article number	colour	G kg
PA		
UEKH3-G	RAL 7011 (iron grey)	0,01
UEKH3-S	RAL 9011 (graphite black)	0,01



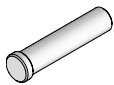
UEK3 BK Brush cable outlet

article number	colour	G kg
PA		
UEK3-BK-S	Black (similar to RAL 9011)	0,01



UEK3 ST hinge pin

article number	G kg
S	
UEK3-ST S	0,10



Installation units for screed and hollow floors

Installation unit made of plastic | Installation units, round

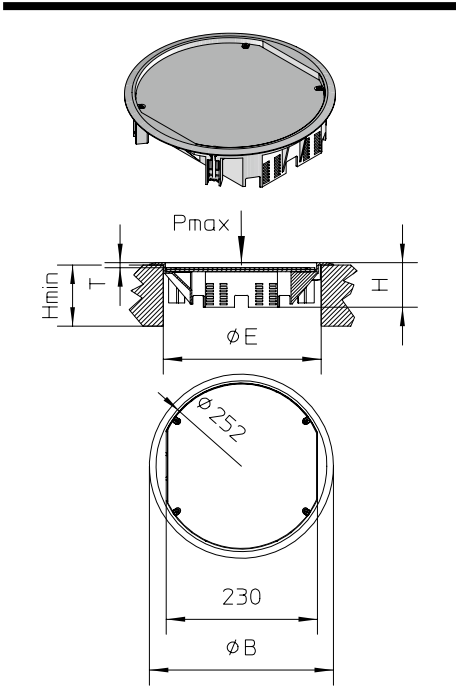
UEBD2 R installation unit - dummy cover double, round

Round plastic dummy unit with carpet protection frame as a revision opening for rooms with carpet or linoleum floors. Please mind the technical information in chapter planning.

article number	H mm	H _{min} mm	B mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	G kg
PA									
UEBD2-R-G	65	65	280	260	8	2	RAL 7011 (iron grey)	IP 30	1,32
UEBD2-R-S	65	65	280	260	8	2	RAL 9011 (graphite black)	IP 30	1,32

accessories included:
1 x **UDBS-R 4** hollow space floor claw for Dummy cover (page C14)

accessories optional:
UEBD R cover inlay, dummy cover, round (page C12)



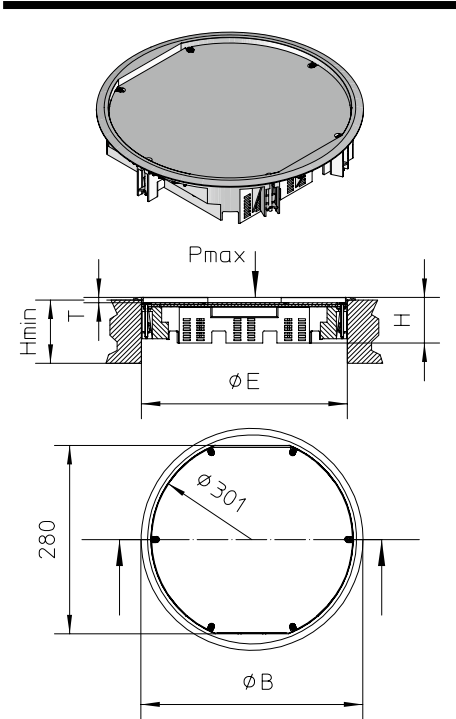
UEBD3 R installation unit - dummy cover triple, round

Round plastic dummy unit with carpet protection frame as a revision opening for rooms with carpet or linoleum floors. Please mind the technical information in chapter planning.

article number	H mm	H _{min} mm	B mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	G kg
PA									
UEBD3-R-G	65	65	330	307	8	2	RAL 7011 (iron grey)	IP 30	1,87
UEBD3-R-S	65	65	330	307	8	2	RAL 9011 (graphite black)	IP 30	1,87

accessories included:
1 x **UDBS-R 6** hollow space floor claw for Dummy cover, round (page C14)

accessories optional:
UEBD R cover inlay, dummy cover, round (page C12)



Installation units for screed and hollow floors

Installation unit made of plastic | Installation units, round

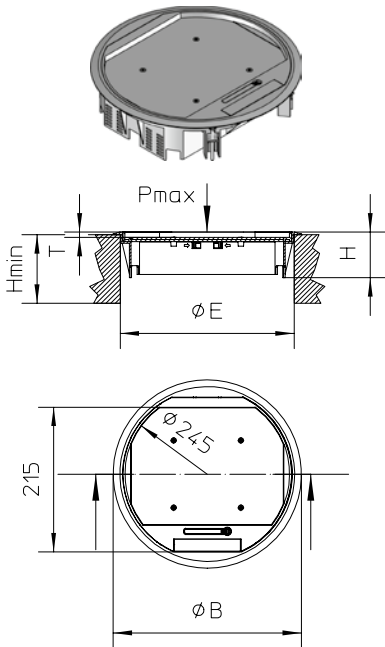
UEKD2 R installation unit - hinged cover double, round

Round hinged cover installation unit made of plastic with carpet protection frame for two device cups for rooms with carpet or linoleum floor covers.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	IP _g	G kg
PA										
UEKD2-R-G	65	74	280	260	8	2	RAL 7011 (iron grey)	IP 30	IP 20	1,30
UEKD2-R-S	65	74	280	260	8	2	RAL 9011 (graphite black)	IP 30	IP 20	1,30

accessories included:
1 x **UDKS-R 4** hollow space floor claws for hinged cover, round (page C13)

accessories optional:
UEKD R cover inlay, hinged cover, round (page C12)



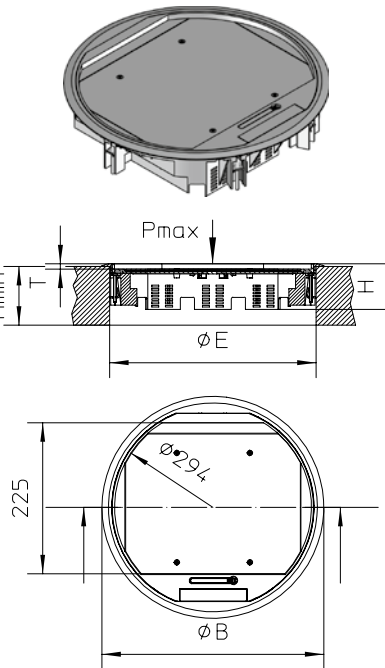
UEKD3 R installation unit - hinged cover triple, round

Round hinged cover installation unit made of plastic with carpet protection frame for three device cups for rooms with carpet or linoleum floor covers.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	IP _g	G kg
PA										
UEKD3-R-G	65	74	330	307	8	2	RAL 7011 (iron grey)	IP 30	IP 20	1,84
UEKD3-R-S	65	74	330	307	8	2	RAL 9011 (graphite black)	IP 30	IP 20	1,84

accessories included:
1 x **UDKS-R 6** hollow space floor claws for hinged cover, round (page C13)

accessories optional:
UEKD R cover inlay, hinged cover, round (page C12)
UGEARL registering extension, triple (page C13)



Installation units for screed and hollow floors

Installation unit made of plastic | Installation units, quadrangular

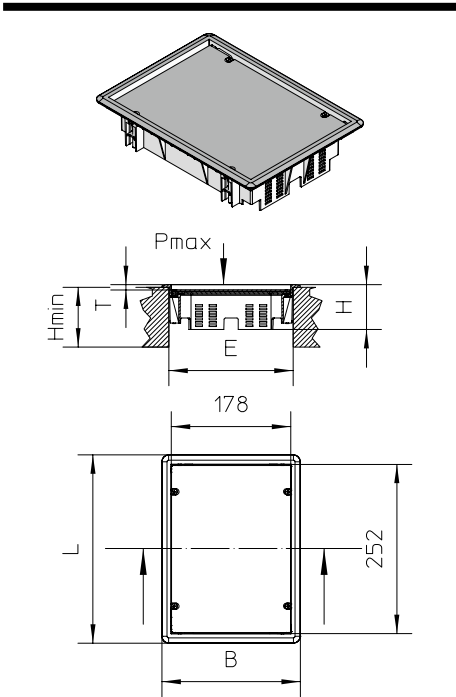
UEBD2 V installation unit - dummy cover - double, quadrangular

Square plastic dummy unit with carpet protection frame as inspection chamber for rooms with carpet or linoleum floor covers.
Please mind the technical information in chapter planning.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	G kg
PA										
UEBD2-V-G	65	65	206	280	261 x 186	8	2	RAL 7011 (iron grey)	IP 30	1,30
UEBD2-V-S	65	65	206	280	261 x 186	8	2	RAL 9011 (graphite black)	IP 30	1,30

accessories included:
1 x **UDBS-R 4** hollow space floor claw for Dummy cover (page C14)

accessories optional:
UEBD V cover inlay, dummy cover, quadrangular (page C12)



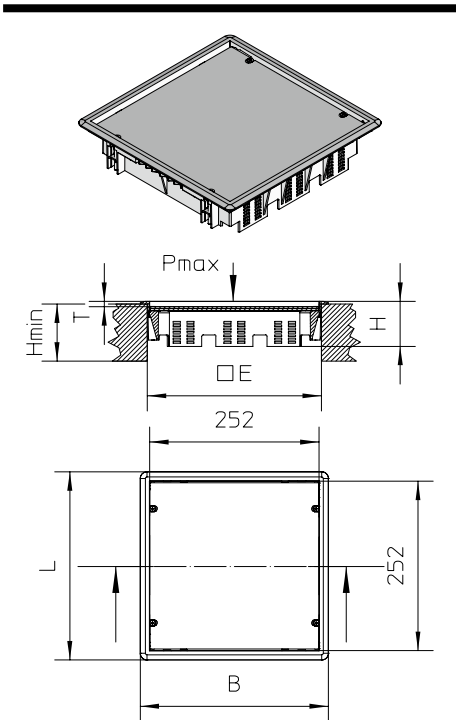
UEBD3 V installation unit - dummy cover triple, quadrangular

Square plastic dummy unit with carpet protection frame as inspection chamber for rooms with carpet or linoleum floor covers.
Please mind the technical information in chapter planning.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	G kg
PA										
UEBD3-V-G	65	65	280	280	261 x 261	8	2	RAL 7011 (iron grey)	IP 30	1,50
UEBD3-V-S	65	65	280	280	261 x 261	8	2	RAL 9011 (graphite black)	IP 30	1,50

accessories included:
1 x **UDBS-R 4** hollow space floor claw for Dummy cover (page C14)

accessories optional:
UEBD V cover inlay, dummy cover, quadrangular (page C12)



Installation units for screed and hollow floors

Installation unit made of plastic | Installation units, quadrangular

UEKD2 V installation unit - hinged cover double, quadrangular

Square hinged cover installation unit made of plastic with carpet protection frame for two device cups for rooms with carpet or linoleum floor covers.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

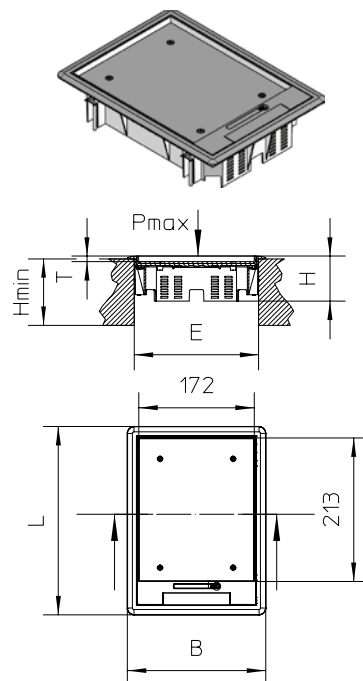
article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	IP _g	G kg
PA											
UEKD2-V-G	65	74	206	280	261 x 186	8	2	RAL 7011 (iron grey)	IP 30	IP 20	1,40
UEKD2-V-S	65	74	206	280	261 x 186	8	2	RAL 9011 (graphite black)	IP 30	IP 20	1,40

accessories included:

1 x **UDKS-V 4** hollow space floor claws for hinged cover, quadrangular (page C14)

accessories optional:

UEKD V cover inlay, hinged cover, quadrangular (page C12)



UEKD3 V installation unit - hinged cover triple, quadrangular

Square hinged cover installation unit made of plastic with carpet protection frame for two device cups for rooms with carpet or linoleum floor covers.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

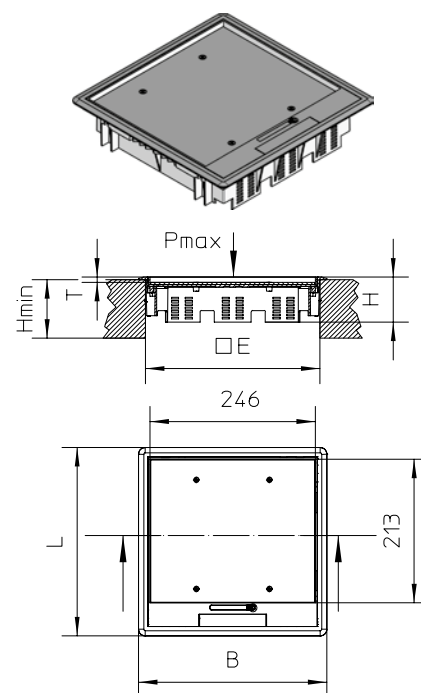
article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	colour	IP _n	IP _g	G kg
PA											
UEKD3-V-G	65	74	280	280	261 x 261	8	2	RAL 7011 (iron grey)	IP 30	IP 20	1,60
UEKD3-V-S	65	74	280	280	261 x 261	8	2	RAL 9011 (graphite black)	IP 30	IP 20	1,60

accessories included:

1 x **UDKS-V 4** hollow space floor claws for hinged cover, quadrangular (page C14)

accessories optional:

UEKD V cover inlay, hinged cover, quadrangular (page C12)
UGEARL registering extension, triple (page C13)



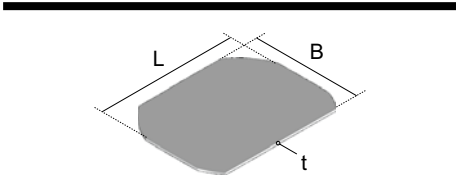
Installation units for screed and hollow floors

Installation unit made of plastic | Installation units Accessories

UEKD R

cover inlay, hinged cover, round

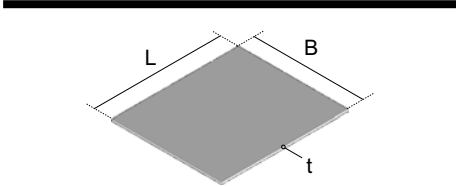
article number	B mm	L mm	t mm	G kg
KT				
UEKD2-R 3	174	242	3	0,11
UEKD3-R 3	224	290	3	0,12
PVC				
UEKD3-R 5K	224	290	5	0,13



UEKD V

cover inlay, hinged cover, quadrangular

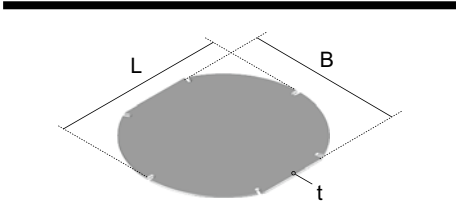
article number	B mm	L mm	t mm	G kg
KT				
UEKD2-V 3	169	210	3	0,10
UEKD3-V 3	243	210	3	0,12
PVC				
UEKD3-V 5K	210	243	5	0,11



UEBD R

cover inlay, dummy cover, round

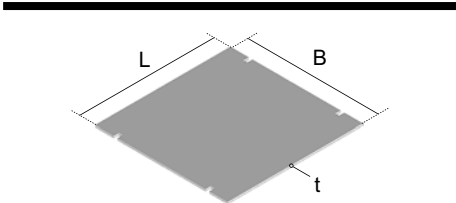
article number	B mm	L mm	t mm	G kg
KT				
UEBD2-R 3	176	247	3	0,11
UEBD3-R 3	297	277	3	0,13



UEBD V

cover inlay, dummy cover, quadrangular

article number	B mm	L mm	t mm	G kg
KT				
UEBD3-V 3	245	250	3	0,12
UEBD2-V 3	176	247	3	0,10



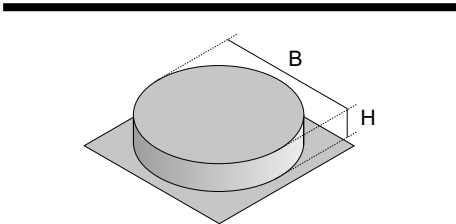
USK R

shuttering, round

Shuttering made of plastic material for generating an installation opening for round installation units in raised floors.
For assembly instructions, see the chapter assembly.

article number	H mm	D mm	G kg
PP			
USK-R	52	260	0,18
USK-R3	52	308	0,21

accessories optional:
UEKD2 R installation unit - hinged cover double, round (page C09)
UEKD3 R installation unit - hinged cover triple, round (page C09)



Installation units for screed and hollow floors

Installation unit made of plastic | Installation units Accessories

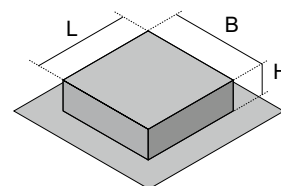
USK V shuttering, quadrangular

Shuttering made of plastic material for generating an installation opening for square installation units in raised floors.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	G kg
PP				
USK-V2	52	261	186	0,17
USK-V	52	261	261	0,19

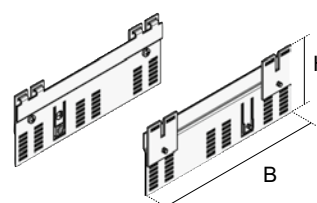
accessories optional:

UEKD2 V installation unit - hinged cover double, quadrangular (page C11)
UEKD3 V installation unit - hinged cover triple, quadrangular (page C11)



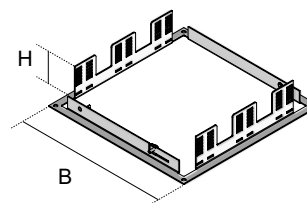
UGEARL registering extension, triple

article number	H mm	H _{min} mm	B mm	lock-in range mm	G kg
S					
UGEARL 50S	78,4	135	191,5	50	0,40



UGEA retrofit kit for device cup

article number	H mm	B mm	lock-in range mm	G kg
S				
UGEA-50S	54,5	258	25	0,50
UGEA-80S	83,5	258	35	0,55



UDKS R 4 hollow space floor claws for hinged cover, round

article number	k mm	piece	G kg
S			
UDKS-R 4	30 - 50	4	0,04

accessories optional:

UEKD2 R installation unit - hinged cover double, round (page C09)



UDKS R 6 hollow space floor claws for hinged cover, round

article number	k mm	piece	G kg
S			
UDKS-R 6	30 - 50	6	0,05

accessories optional:

UEKD3 R installation unit - hinged cover triple, round (page C09)



Installation units for screed and hollow floors

Installation unit made of plastic | Installation units Accessories

UDKS V 4

hollow space floor claws for hinged cover, quadrangular

article number	k mm	piece	G kg
S			
UDKS-V 4	30 - 45	4	0,04

accessories optional:

UEKD2 V installation unit - hinged cover double, quadrangular (page C11)

UEKD3 V installation unit - hinged cover triple, quadrangular (page C11)



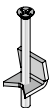
UDBS R 4

hollow space floor claw for Dummy cover

article number	k mm	piece	G kg
S			
UDBS-R 4	30 - 50	4	0,04

accessories optional:

UEBD2 R installation unit - dummy cover double, round (page C08)



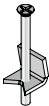
UDBS R 6

hollow space floor claw for Dummy cover, round

article number	k mm	piece	G kg
S			
UDBS-R 6	30 - 50	6	0,05

accessories optional:

UEBD3 R installation unit - dummy cover triple, round (page C08)



UDBS V 4

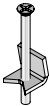
hollow space floor claw for Dummy cover, quadrangular

article number	k mm	piece	G kg
S			
UDBS-V 4	30 - 45	4	0,04

accessories optional:

UEBD2 V installation unit - dummy cover - double, quadrangular (page C10)

UEBD3 V installation unit - dummy cover triple, quadrangular (page C10)



UDKSEB

claw, screed flush

article number	k mm	piece	G kg
S			
UDKSEB	3 - 35	1	0,01

accessories optional:

UEBSMD 122R Assembly cover, round (page A05)

UEBSMD 185V Assembly cover, quadrangular (page A06)

UEBSMD 260R Assembly cover, round (page A05)

UEBSMD 260V Assembly cover, quadrangular (page A06)

UEBSMD 307R Assembly cover, round (page A05)



Installation units for screed and hollow floors

Installation unit made of plastic | Installation units Accessories

UDBS 40-80 claw for plastic dummy cover

article number	L mm	k mm	piece	G kg
S				
UDBS 40-80	100	40 - 95	1	0,02

accessories optional:

UEBD2 R	installation unit - dummy cover double, round	(page C08)
UEBD3 R	installation unit - dummy cover triple, round	(page C08)
UEBD2 V	installation unit - dummy cover - double, quadrangular	(page C10)
UEBD3 V	installation unit - dummy cover triple, quadrangular	(page C10)
UEBDD2 V E	cartridge installation unit dummy cover double, quadrangular	(page C18)
UEBDD V E	Dummy cartridge installation unit, triple, quadrangular	(page C19)
UEKDD1-2 V E	cartridge unit - hinged cover single, quadrangular	(page C19)
UEKDD2 V E	cartridge unit - hinged cover double, quadrangular	(page C20)
UEKDD V E	cartridge unit - hinged cover triple, quadrangular	(page C20)



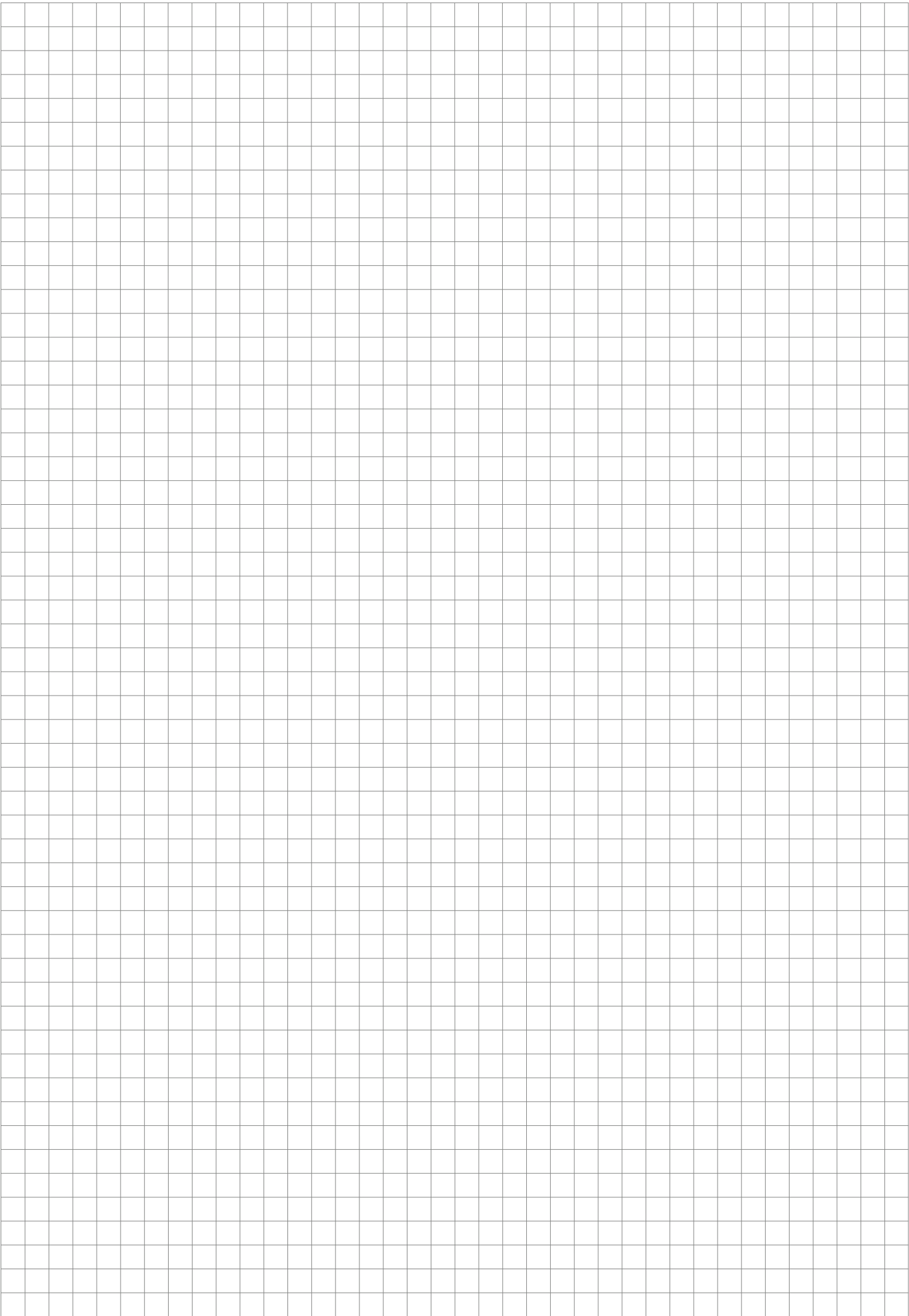
UDKS 40-80 claw for plastic hinged cover

article number	L mm	k mm	piece	G kg
S				
UDKS 40-80	80	40 - 85	1	0,02

accessories optional:

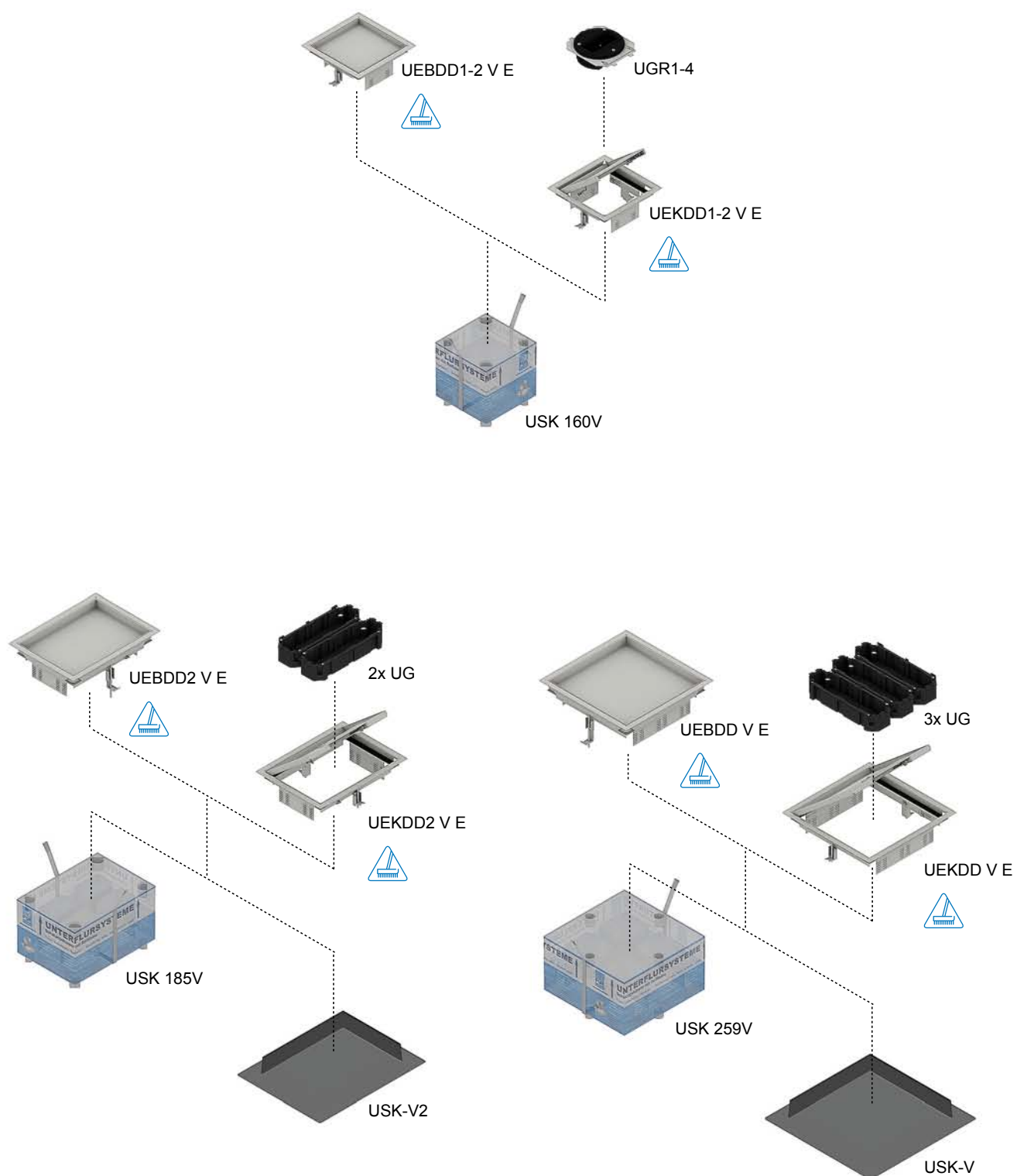
UEKD2 R	installation unit - hinged cover double, round	(page C09)
UEKD3 R	installation unit - hinged cover triple, round	(page C09)
UEKD2 V	installation unit - hinged cover double, quadrangular	(page C11)
UEKD3 V	installation unit - hinged cover triple, quadrangular	(page C11)





System overview

Installation units for screed and hollow floors



Installation units for screed and hollow floors

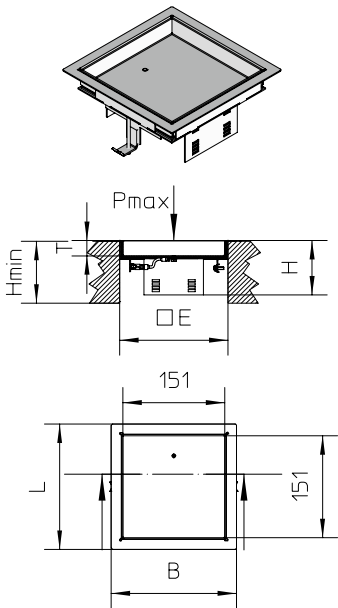
Cartridge installation unit, quadrangular

UEBDD1-2 V E cartridge installation unit - dummy cover, single

Square dummy installation unit with a stainless steel cover protection frame for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E									
UEBDD1-2 15-V E	71	80	186	186	165 x 165	12	1,5	IP 30	1,00
UEBDD1-2 25-V E	81	90	186	186	165 x 165	22	1,5	IP 30	1,20

accessories included:
2 x **UDBS 40-80** claw for plastic dummy cover (page C15)

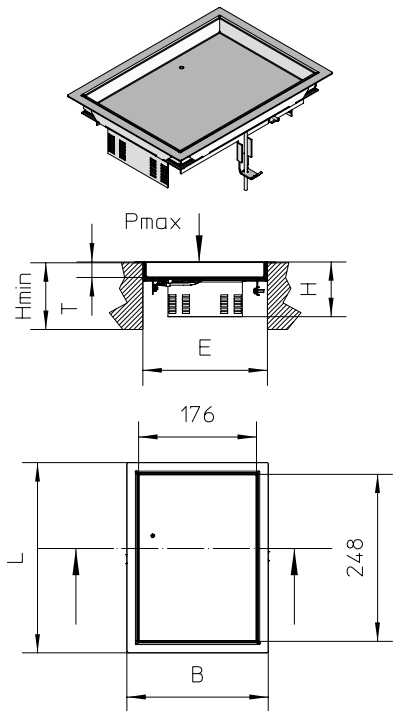


UEBDD2 V E cartridge installation unit dummy cover double, quadrangular

Square dummy cartridge unit with a stainless-steel cover protection frame as an inspection chamber for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E									
UEBDD2 15-V E	72	90	210	283	261 x 186	12	1,5	IP 30	1,71
UEBDD2 25-V E	82	100	210	283	261 x 186	22	1,5	IP 30	2,50

accessories included:
1 x **UGD2-V 2** rubber seal, quadrangular (page C38)
2 x **UDBS 40-80** claw for plastic dummy cover (page C15)



Installation units for screed and hollow floors

Cartridge installation unit, quadrangular

UEBDD V E Dummy cartridge installation unit; triple; quadrangular

Square dummy cartridge unit with a stainless-steel cover protection frame as an inspection chamber for rooms with dry-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

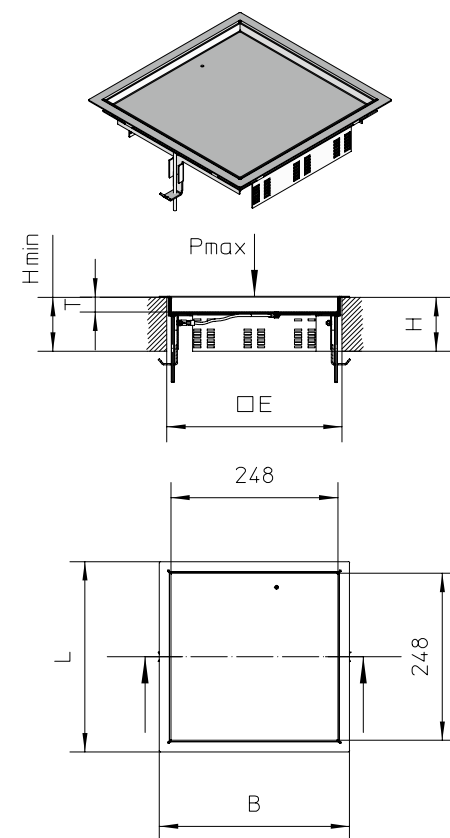
article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E									
UEBDD 15-V E	72	90	283	283	261 x 261	12	2	IP 30	2,10
UEBDD 25-V E	82	100	283	283	261 x 261	22	2	IP 30	2,30

accessories included:

1 x **UGD-V 2** rubber seal, quadrangular (page C37)
2 x **UDBS 40-80** claw for plastic dummy cover (page C15)

accessories optional:

UEBDE V cover insert, high-grade steel dummy cartridge, triple (page C35)



UEKDD1-2 V E cartridge unit - hinged cover single, quadrangular

Square hinged cover installation unit with a stainless steel cover protection frame to accommodate one device cup for rooms with dry-maintenance floors.

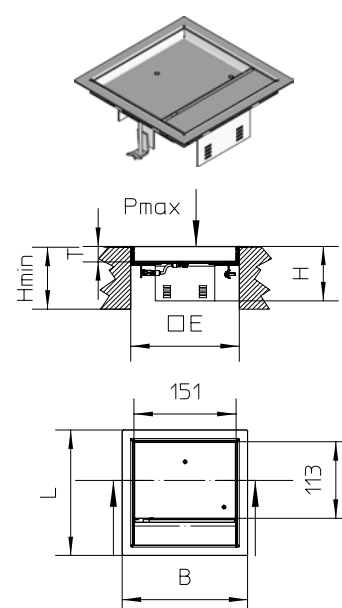
Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E										
UEKDD1-2 15-V E	71	80	186	186	165 x 165	12	1,5	IP 30	IP 20	1,26
UEKDD1-2 25-V E	81	90	186	186	165 x 165	22	1,5	IP 30	IP 20	1,41

accessories included:

2 x **UDBS 40-80** claw for plastic dummy cover (page C15)



Installation units for screed and hollow floors

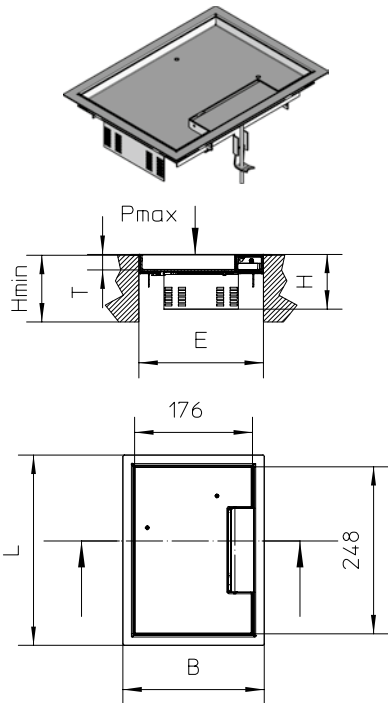
Cartridge installation unit, quadrangular

UEKDD2 V E cartridge unit - hinged cover double, quadrangular

Square hinged cover installation unit with a stainless steel cover protection frame to accommodate two device cups for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E										
UEKDD2 15-V E	72	90	210	283	261 x 186	12	1,5	IP 30	IP 20	1,71
UEKDD2 25-V E	82	100	210	283	261 x 186	22	1,5	IP 30	IP 20	2,50

accessories included:
1 x **UGD2-V 2** rubber seal, quadrangular (page C38)
2 x **UDBS 40-80** claw for plastic dummy cover (page C15)



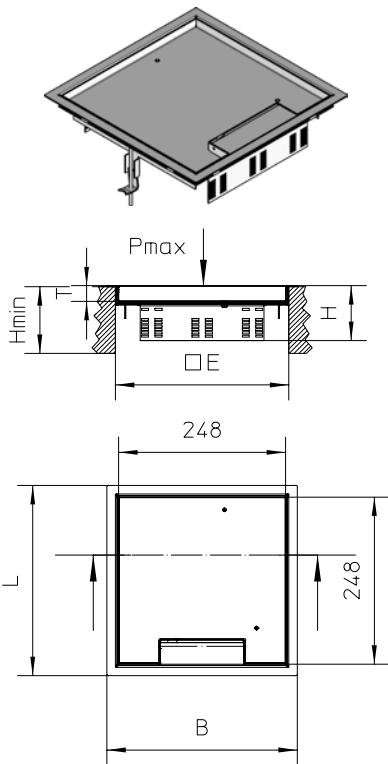
UEKDD V E cartridge unit - hinged cover triple, quadrangular

Square hinged cover installation unit with a stainless steel cover protection frame to accommodate three device cups for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E										
UEKDD 15-V E	72	90	283	283	261 x 261	12	2	IP 30	IP 20	1,60
UEKDD 25-V E	82	100	283	283	261 x 261	22	2	IP 30	IP 20	2,80

accessories included:
1 x **UGD-V 2** rubber seal, quadrangular (page C37)
2 x **UDBS 40-80** claw for plastic dummy cover (page C15)

accessories optional:
UEKDE V cover insert, high-grade steel cable outlet cartridge, triple (page C35)



Installation units for screed and hollow floors



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit round

UEBD R E Triple dummy cartridge unit, round, levellable

Round dummy cartridge unit made of stainless steel sheet as an inspection chamber with hem for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E G									
UEBD 15-R E	21	100	+ 55	305	307	12	2	IP 54	3,14

accessories included:

1 x UGD-R 10-2	rubber seal, round	(page C37)
1 x UGEAR-ELS	grounding angle bracket	(page C39)
1 x UGDB15-R300 1.8	rubber seal, round	(page C37)

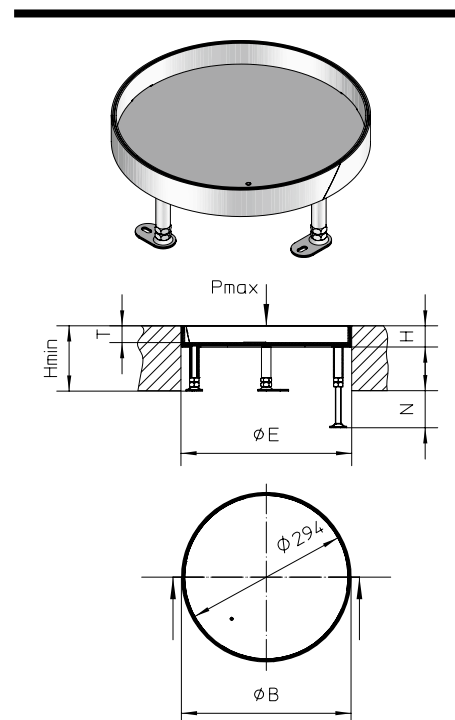
article number	H mm	H _{min} mm	N mm	B mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E G									
UEBD 35-R E	38	117	+ 55	305	307	30	2	IP 54	3,67

accessories included:

1 x UGEAR-ELS	grounding angle bracket	(page C39)
1 x UGD-R 10-2	rubber seal, round	(page C37)
1 x UGDB15-R300 1.8	rubber seal, round	(page C37)

accessories optional:

UEBDE R	cover insert, high-grade steel dummy cartridge, triple	(page C35)
UBDSL F	levelling support	(page A14, C39)
UGM SLF	Subsonic noise sleeve socket - levelling support	(page A14, C39)



UEBDS R E heavy-duty dummy cartridge unit, triple, round, levellable

Round heavy-duty dummy cartridge unit made of stainless steel sheet as an inspection chamber with hem for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

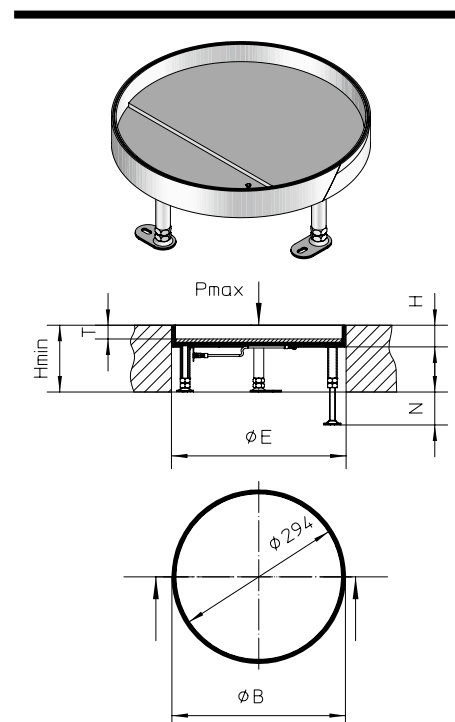
article number	H mm	H _{min} mm	N mm	B mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E G									
UEBDS 35-R6 E	38	117	+ 55	305	307	24	20	IP 54	6,93

accessories included:

1 x UGEAR-ELS	grounding angle bracket	(page C39)
1 x UGD-R 10-2	rubber seal, round	(page C37)
1 x UGDB15-R300 1.8	rubber seal, round	(page C37)

accessories optional:

UBDSL F	levelling support	(page A14, C39)
UGM SLF	Subsonic noise sleeve socket - levelling support	(page A14, C39)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit round

UEBD RP E Dummy cartridge unit, tripple, plan, round

Round dummy cartridge unit made of pearl blasted stainless steel sheet plan as an inspection chamber with hem for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

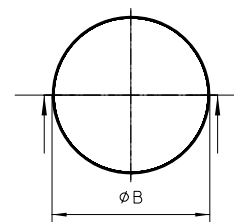
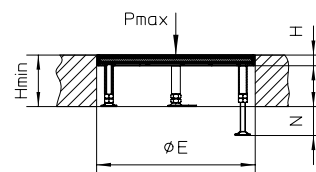
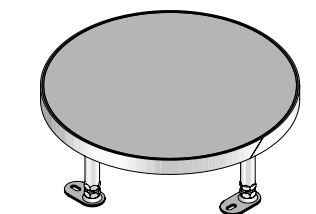
article number	H mm	H _{min} mm	N mm	B mm	E mm	P _{max} kN	IP _n	G kg
E G								
UEBD 15-RP E	21	100	+ 55	305	307	4	IP 54	3,20

accessories included:

1 x UGEAR-ELS	grounding angle bracket	(page C39)
1 x UGD-R 10-2	rubber seal, round	(page C37)
1 x UGDB15-R300 1.8	rubber seal, round	(page C37)

accessories optional:

UBDSL F	levelling support	(page A14, C39)
UGM SLF	Subsonic noise sleeve socket - levelling support	(page A14, C39)



UEKD R E cartridge cover, triple, round, levellable

Round cable outlet cartridge unit made of stainless steel with hem to accommodate three device cups for rooms with dry-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

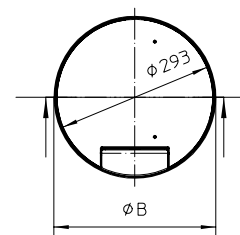
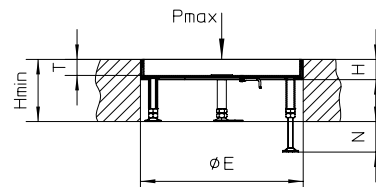
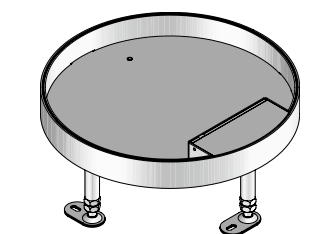
article number	H mm	H _{min} mm	N mm	B mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E G										
UEKD 15-R E	21	100	+ 55	305	307	12	2	IP 30	IP 20	3,20
UEKD 35-R E	38	117	+ 55	305	307	30	2	IP 30	IP 20	3,46

accessories included:

1 x UGD-R 10-2	rubber seal, round	(page C37)
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accessories optional:

UEKDE R	cover insert, high-grade steel cable outlet cartridge, triple	(page C35)
UGEAR	set of registering leads, round	(page C26)
UBDSL F	levelling support	(page A14, C39)
UGM SLF	Subsonic noise sleeve socket - levelling support	(page A14, C39)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit round

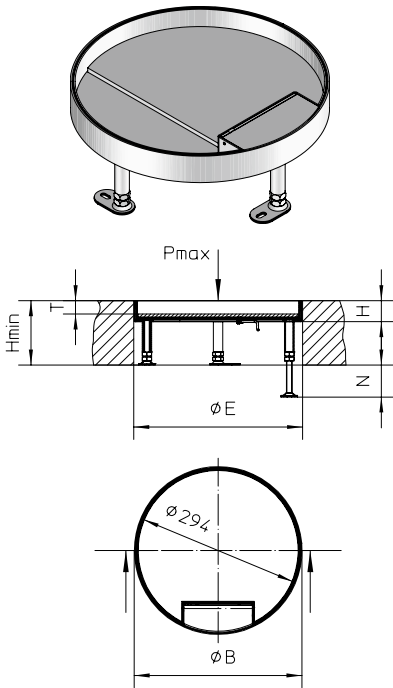
UEKDS R E heavy-duty cable outlet cartridge, triple, round, levellable

Round heavy-duty cable outlet cartridge unit made of stainless steel sheet with hem to accommodate three device cups for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E G										
UEKDS 35-R6 E	38	117	+ 55	305	307	24	10	IP 30	IP 20	6,30

accessories included:
1 x **UGD-R 10-2** rubber seal, round (page C37)

accessories optional:
UGEAR set of registering leads, round (page C26)
UBDSLFL levelling support (page A14, C39)
UGM SLF Subsonic noise sleeve socket - levelling support (page A14, C39)



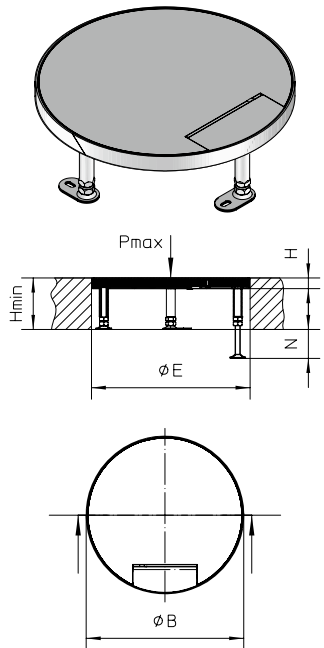
UEKD RP E Cable-outlet cartridge unit, tripple, plan, round

Round cable outlet cartridge unit made of pearl blasted stainless steel sheet plan with hem to accommodate three device cups for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	E mm	P _{max} kN	IP _n	IP _g	G kg
E G									
UEKD 15-RP E	21	100	+ 55	305	307	4	IP 30	IP 20	3,25

accessories included:
1 x **UGD-R 10-2** rubber seal, round (page C37)

accessories optional:
UGEAR set of registering leads, round (page C26)
UBDSLFL levelling support (page A14, C39)
UGM SLF Subsonic noise sleeve socket - levelling support (page A14, C39)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit round

UEBDM R Tube cartridge unit, triple, round, levellable

Round tube cartridge unit made of stainless steel sheet with hem to accommodate three device cups for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
AL E G										
UEBDM 15-R-WD	21	100	+ 55	305	307	12	2	IP 54	IP 22	3,20
UEBDM 35-R-WD	38	117	+ 55	305	307	30	2	IP 54	IP 22	3,82

accessories included:

1 x **UGDB15-R300 1.8** rubber seal, round (page C37)

1 x **UGD-R 10-2** rubber seal, round (page C37)

1 x **UETD-R-WD** tube cover (page C36)

accessories optional:

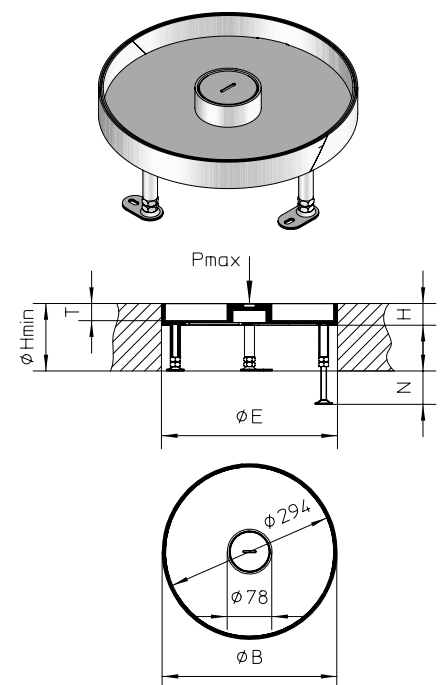
UEBDME R cover insert, tube outlet cartridge made of high-grade steel, triple (page C35)

UGEAR set of registering leads, round (page C26)

UET tube for wet maintenance (page C36)

UBDSLFL levelling support (page A14, C39)

UGM SLF Subsonic noise sleeve socket - levelling support (page A14, C39)



UEBDSM R heavy-duty tube-cartridge unit triple, round, levellable

Round heavy-duty tube cartridge unit made of stainless steel sheet with hem to accommodate three device cups for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
AL E G										
UEBDSM 35-R6-WD	38	117	+ 55	305	307	24	20	IP 54	IP 22	6,79

accessories included:

1 x **UETD-R-WD** tube cover (page C36)

1 x **UGD-R 10-2** rubber seal, round (page C37)

1 x **UGDB15-R300 1.8** rubber seal, round (page C37)

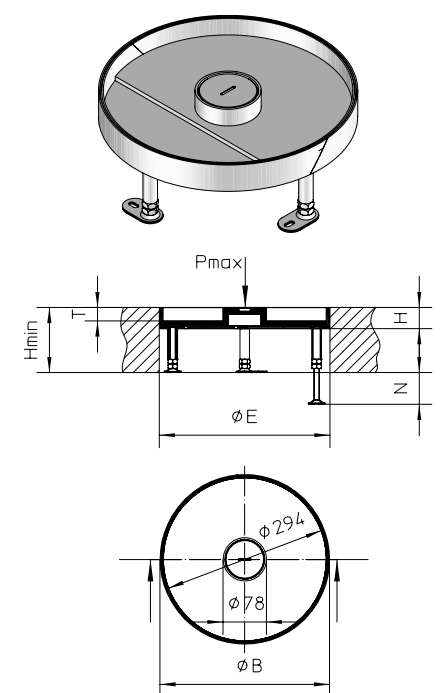
accessories optional:

UGEAR set of registering leads, round (page C26)

UET tube for wet maintenance (page C36)

UBDSLFL levelling support (page A14, C39)

UGM SLF Subsonic noise sleeve socket - levelling support (page A14, C39)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit round

UEBDM RP WD Tube cartridge unit, tripple, plan, round

Round tube cartridge unit made of pearl blasted stainless steel sheet plan with hem to accommodate three device cups for rooms with wet-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

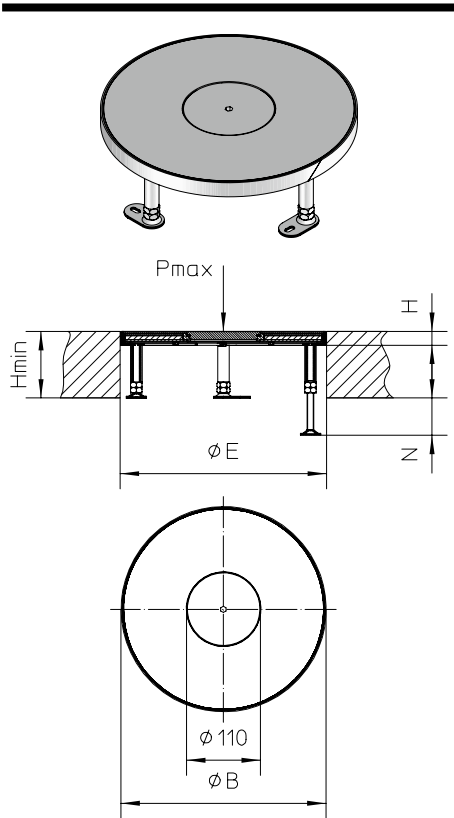
article number	H mm	H _{min} mm	N mm	B mm	E mm	P _{max} kN	IP _n	IP _g	G kg
E G									
UEBDM 15-RP-WD	21	100	+ 55	305	307	4	IP 54	IP 22	3,30

accessories included:

1 x UETD112-R-WD	tube cover	(page C37)
1 x UGD-R 10-2	rubber seal, round	(page C37)
1 x UGDB15-R300 1.8	rubber seal, round	(page C37)

accessories optional:

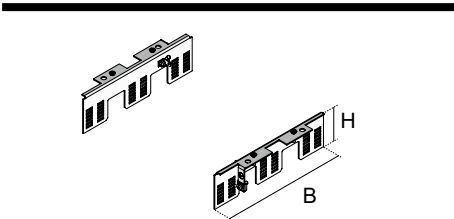
UET112	tube for wet maintenance	(page C36)
UGEAR	set of registering leads, round	(page C26)
UBDSLFL	levelling support	(page A14, C39)
UGM SLF	Subsonic noise sleeve socket - levelling support	(page A14, C39)



UGEAR set of registering leads, round

To be screwed to a round stainless steel cartridge unit.

article number	H mm	B mm	lock-in range mm	G kg
S				
UGEAR-50S	55	190	25	0,28
UGEAR-80S	84	190	35	0,34

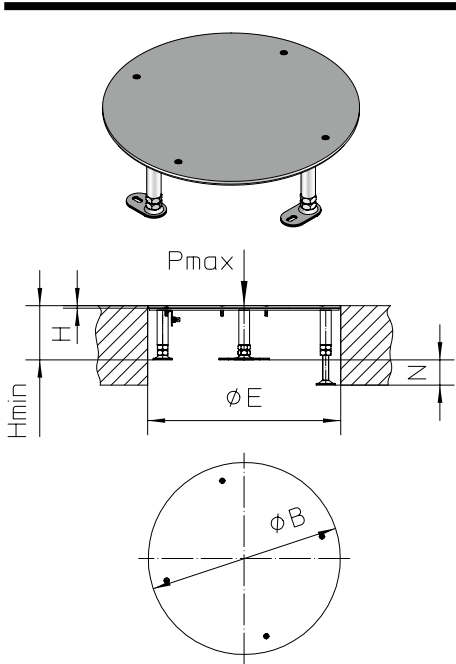


Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit round

UNE 305R Dummy cover, triple, round

article number	H mm	H _{min} mm	N mm	B mm	E mm	P _{max} kN	G kg
S							
UNE 305R-90S	4	90	55	305	307	2	3,25



Installation units for screed and hollow floors

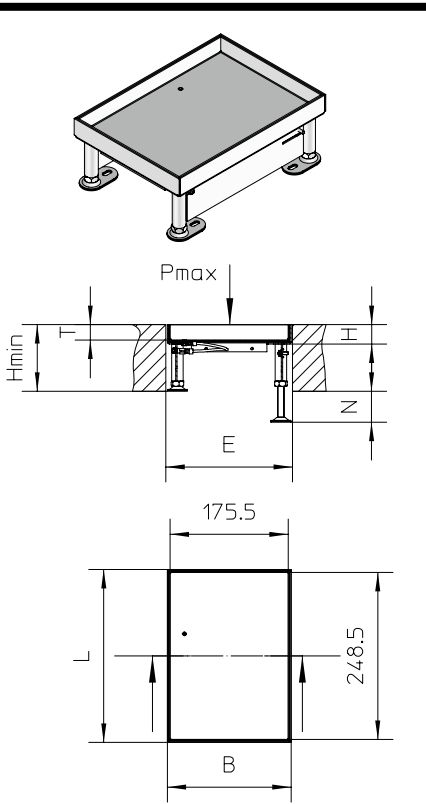
Installation unit made of high-grade steel | Cartridge unit angular

UEBD2 V E dummy cartridge unit double, quadrangular, levellable

Square dummy cartridge unit made of stainless steel sheet as an inspection chamber with hem for rooms with wet-maintenance floors.
Please mind the technical information in chapter planning.

article number	H mm	H _{min} mm	N mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E										
UEBD2 15-V E	19	90	+ 45	258	184	261 x 186	12	1,5	IP 30	2,20
UEBD2 25-V E	29	100	+ 45	258	184	261 x 186	22	1,5	IP 30	2,50

accessories optional:
UBDSLF levelling support (page A14, C39)
UGM SLF Subsonic noise sleeve socket - levelling support (page A14, C39)

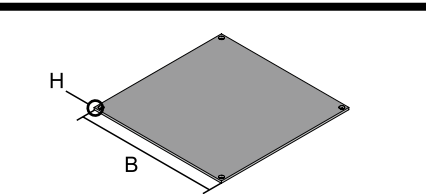


UBP V Dummy cover, triple, angular

article number	H mm	H _{min} mm	B mm	L mm	E mm	P _{max} kN	G kg
S							
UBP-V 4S	4	65	258	258	261x261	2	2,60

accessories included:
4 x **UKS M4x16E** Phillips screw (page C38)
1 x **UGD3-V 2** rubber seal, quadrangular (page C38)

accessories optional:
UNE levelling unit dummy, triple, quadrangular (page C34)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit angular

UEBD V E triple dummy cartridge unit, quadrangular

Square dummy cartridge made of stainless steel sheet as an inspection chamber with hem for rooms with wet-main-tenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E G									
UEBD 15-V E	19	85	258	258	261 x 261	12	2	IP 54	1,75
UEBD 25-V E	29	95	258	258	261 x 261	22	2	IP 54	1,98
UEBD 35-V E	39	105	258	258	261 x 261	32	2	IP 54	2,25
UEBD 45-V E	49	115	258	258	261 x 261	42	2	IP 54	2,51

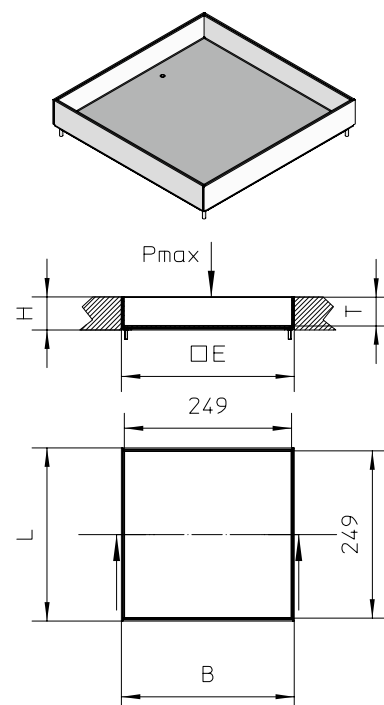
MS G									
UEBD 25-V MS	29	95	258	258	261 x 261	16	2	IP 54	4,97
UEBD 35-V MS	39	105	258	258	261 x 261	26	2	IP 54	5,31

accessories included:

1 x **UGD3-V 2** rubber seal, quadrangular (page C38)
4 x **UKS M4x16E** Phillips screw (page C38)

accessories optional:

UEBDE V cover insert, high-grade steel dummy cartridge, triple (page C35)
UNE levelling unit dummy, triple, quadrangular (page C34)



UEBDS V E heavy-duty dummy cartridge unit, triple, quadrangular

Square heavy-duty dummy cartridge made of stainless steel sheet as an inspection chamber with hem for rooms with wet-maintenance floors.

On request deliverable in the material brass. Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

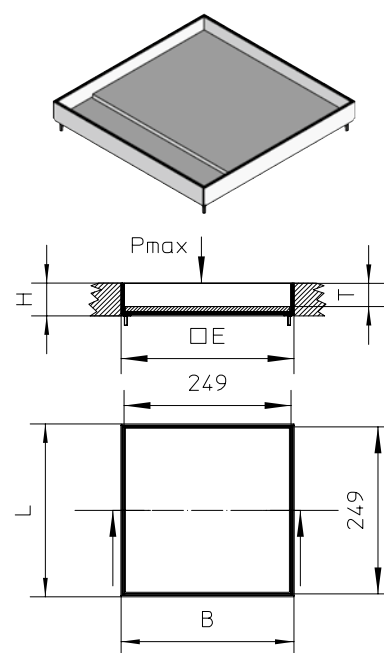
article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E G									
UEBDS 25-V6 E	29	95	258	258	261 x 261	16	10	IP 54	4,80
UEBDS 35-V6 E	39	105	258	258	261 x 261	26	10	IP 54	5,10
UEBDS 45-V6 E	49	115	258	258	261 x 261	36	10	IP 54	5,30
UEBDS 35-V8 E	39	105	258	258	261 x 261	24	20	IP 54	6,00
UEBDS 45-V8 E	49	115	258	258	261 x 261	34	20	IP 54	6,20

accessories included:

1 x **UGD3-V 2** rubber seal, quadrangular (page C38)
4 x **UKS M4x16E** Phillips screw (page C38)

accessories optional:

UNE levelling unit dummy, triple, quadrangular (page C34)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit angular

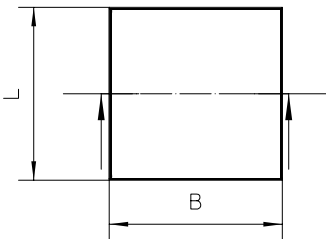
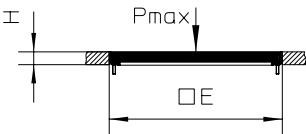
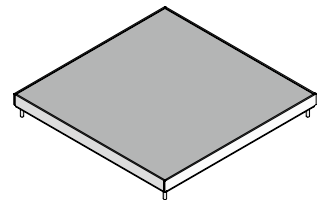
UEBD VP E Dummy cartridge unit, tripple, plan, quadrangular

Square dummy cartridge made of pearl blasted stainless steel sheet plan as an inspection chamber with hem for rooms with wet-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	P _{max} kN	IP _n	G kg
E G								
UEBD 15-VP E	19	85	258	258	261 x 261	4	IP 54	3,42

accessories included:
1 x **UGD3-V 2** rubber seal, quadrangular (page C38)
1 x **UKS M4x16E** Phillips screw (page C38)

accessories optional:
UNE levelling unit dummy, triple, quadrangular (page C34)

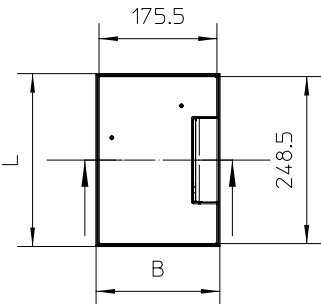
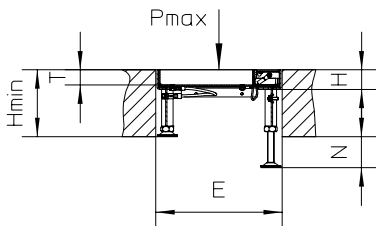
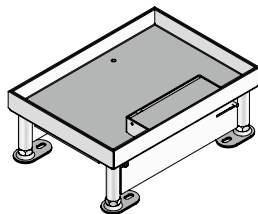


UEKD2 V E Cable outlet cartridge double, quadrangular, levellable

Square cable outlet cartridge unit made of stainless steel sheet with hem to accommodate two device cups for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.

article number	H mm	H _{min} mm	N mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E											
UEKD2 15-V E	19	90	+ 45	258	184	261 x 186	12	1,5	IP 30	IP 20	2,40
UEKD2 25-V E	29	100	+ 45	258	184	261 x 186	22	1,5	IP 30	IP 20	2,60

accessories optional:
UGEAV2 set of registering leads, quadrangular (page C34)
UBDSL levelling support (page A14, C39)
UGM SLF Subsonic noise sleeve socket - levelling support (page A14, C39)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit angular

UEKD V E cartridge unit - hinged cover triple, quadrangular

Square cable outlet cartridge made of stainless steel sheet with hem to accommodate three device cups for rooms with dry-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

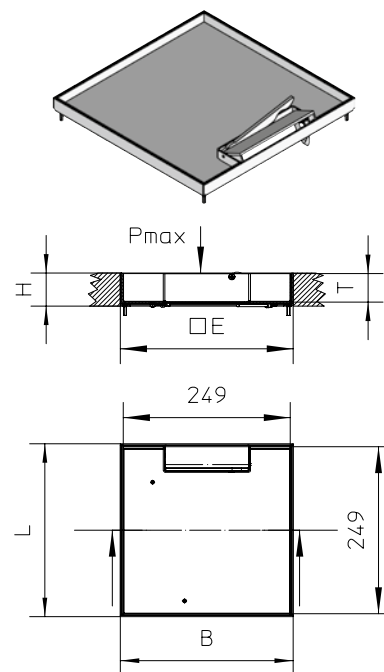
article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E G										
UEKD 15-V E	19	85	258	258	261 x 261	12	2	IP 30	IP 20	1,80
UEKD 25-V E	29	95	258	258	261 x 261	22	2	IP 30	IP 20	2,00
UEKD 35-V E	39	105	258	258	261 x 261	32	2	IP 30	IP 20	2,20
UEKD 45-V E	49	115	258	258	261 x 261	42	2	IP 30	IP 20	2,40
MS G										
UEKD 25-V MS	29	95	258	258	261 x 261	16	2	IP 30	IP 20	2,00
UEKD 35-V MS	39	105	258	258	261 x 261	26	2	IP 30	IP 20	2,20

accessories included:

4 x **UKS M4x16E** Phillips screw (page C38)
1 x **UGD-V 2** rubber seal, quadrangular (page C37)

accessories optional:

UEKDE V cover insert, high-grade steel cable outlet cartridge, triple (page C35)
UNE levelling unit dummy, triple, quadrangular (page C34)
UGEAV set of registering leads, quadrangular (page C34)



UEKDS V E heavy-duty cable outlet cartridge, triple, quadrangular

Square heavy-duty cable outlet cartridge made of stainless steel sheet with hem to accommodate three device cups for rooms with dry-maintenance floors.

On request deliverable in the material brass. Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

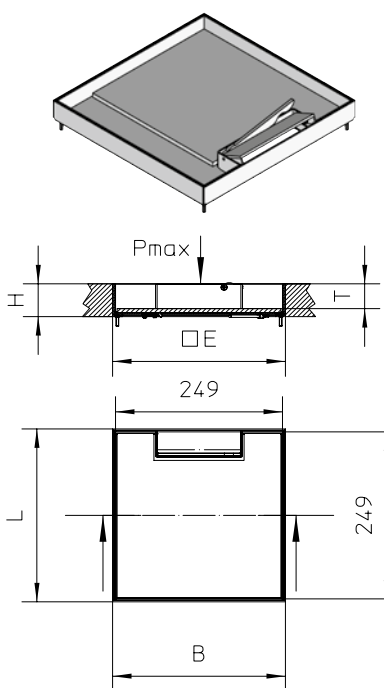
article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E G										
UEKDS 25-V6 E	29	95	258	258	261 x 261	16	10	IP 30	IP 20	4,80
UEKDS 35-V6 E	39	105	258	258	261 x 261	26	10	IP 30	IP 20	5,00
UEKDS 45-V6 E	49	115	258	258	261 x 261	36	10	IP 30	IP 20	5,20

accessories included:

4 x **UKS M4x16E** Phillips screw (page C38)
1 x **UGD-V 2** rubber seal, quadrangular (page C37)

accessories optional:

UNE levelling unit dummy, triple, quadrangular (page C34)
UGEAV set of registering leads, quadrangular (page C34)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit angular

UEKD VP E Cable outlet cartridge unit tripple, plan, quadrangular

Square cable outlet cartridge made of pearl blasted stainless steel sheet plan with hem to accommodate three device cups for rooms with dry-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

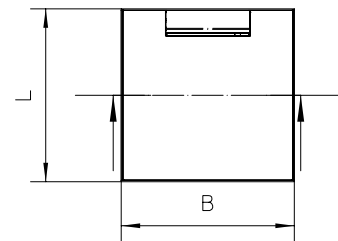
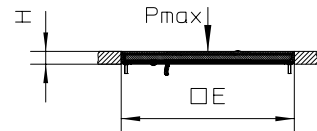
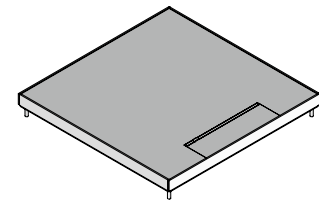
article number	H mm	H _{min} mm	B mm	L mm	E mm	P _{max} kN	IP _n	IP _g	G kg
E G									
UEKD 15-VP E	19	85	258	258	261 x 261	4	IP 30	IP 20	3,38

accessories included:

1 x **UGD-V 2** rubber seal, quadrangular (page C37)
1 x **UKS M4x16E** Phillips screw (page C38)

accessories optional:

UNE levelling unit dummy, triple, quadrangular (page C34)
UGEAV set of registering leads, quadrangular (page C34)



UEBDM V tube-cartridge unit triple, quadrangular

Square tube cartridge made of stainless steel sheet to accommodate three device cups, with hem, for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
AL E G										
UEBDM 15-V-WD	19	85	258	258	261 x 261	12	2	IP 54	IP 22	1,90
UEBDM 25-V-WD	29	95	258	258	261 x 261	22	2	IP 54	IP 22	2,10
UEBDM 35-V-WD	39	105	258	258	261 x 261	32	2	IP 54	IP 22	2,30
UEBDM 45-V-WD	49	115	258	258	261 x 261	42	2	IP 54	IP 22	2,60

AL | MS | G

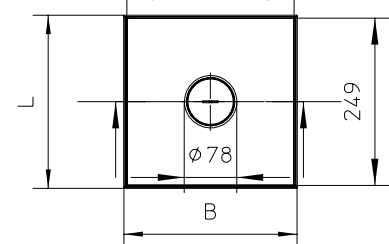
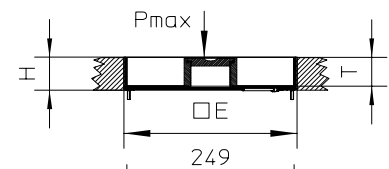
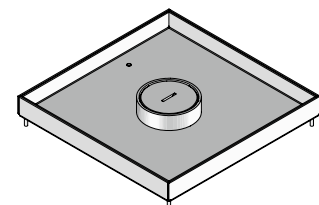
UEBDM 25-V-WD MS	29	95	258	258	261 x 261	16	2	IP 54	IP 22	2,10
UEBDM 35-V-WD MS	39	105	258	258	261 x 261	26	2	IP 54	IP 22	2,30

accessories included:

1 x **UGD3-V 2** rubber seal, quadrangular (page C38)
4 x **UKS M4x16E** Phillips screw (page C38)
1 x **UETD-R-WD** tube cover (page C36)

accessories optional:

UEBDME V cover insert, tube outlet cartridge made of high-grade steel, triple (page C36)
UET tube for wet maintenance (page C36)
UNE levelling unit dummy, triple, quadrangular (page C34)
UGEAV set of registering leads, quadrangular (page C34)



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit angular

UEBDSM V heavy-duty tube-cartridge unit triple, quadrangular

Square heavy-duty tube cartridge made of stainless steel sheet with hem to accommodate three device cups for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

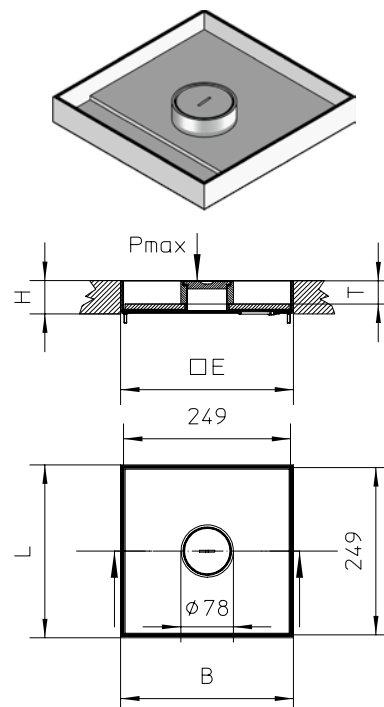
article number	H mm	H _{min} mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
AL E G										
UEBDSM 25-V6-WD	29	95	258	258	261 x 261	16	10	IP 54	IP 22	4,70
UEBDSM 35-V6-WD	39	105	258	258	261 x 261	26	10	IP 54	IP 22	5,08
UEBDSM 45-V6-WD	49	115	258	258	261 x 261	36	10	IP 54	IP 22	5,40
UEBDSM 35-V8-WD	39	105	258	258	261 x 261	24	20	IP 54	IP 22	6,10
UEBDSM 45-V8-WD	49	115	258	258	261 x 261	34	20	IP 54	IP 22	6,40

accessories included:

1 x UGD3-V 2	rubber seal, quadrangular	(page C38)
4 x UKS M4x16E	Phillips screw	(page C38)
1 x UETD-R-WD	tube cover	(page C36)

accessories optional:

UET	tube for wet maintenance	(page C36)
UNE	levelling unit dummy, triple, quadrangular	(page C34)
UGEAV	set of registering leads, quadrangular	(page C34)



UEBDM VP WD Tube cartridge unit, tripple, plan, quadrangular

Square tube cartridge made of pearl blasted stainless steel sheet plan to accommodate three device cups, with hem, for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

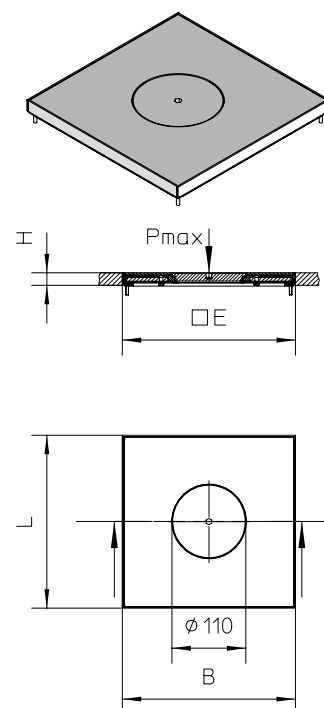
article number	H mm	H _{min} mm	B mm	L mm	E mm	P _{max} kN	IP _n	IP _g	G kg
E G									
UEBDM 15-VP-WD	19	85	258	258	261 x 261	4	IP 54	IP 22	3,39

accessories included:

1 x UETD112-R-WD	tube cover	(page C37)
1 x UGD3-V 2	rubber seal, quadrangular	(page C38)
1 x UKS M4x16E	Phillips screw	(page C38)

accessories optional:

UET112	tube for wet maintenance	(page C36)
UNE	levelling unit dummy, triple, quadrangular	(page C34)
UGEAV	set of registering leads, quadrangular	(page C34)



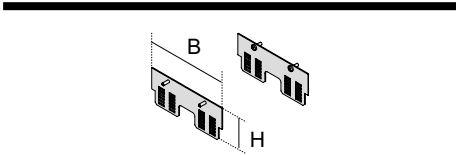
Installation units for screed and hollow floors

Installation unit made of high-grade steel | Cartridge unit angular

UGEAV2 set of registering leads, quadrangular

To be screwed to a stainless steel cartridge unit UEKD2 V E.

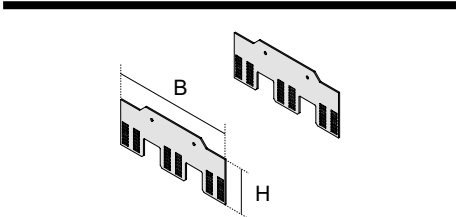
article number	H mm	H _{min} mm	B mm	lock-in range mm	G kg
S					
UGEAV2 50S	55	65	131	30	0,13
UGEAV2 80S	85	65	131	25	0,21



UGEAV set of registering leads, quadrangular

To be screwed to a levelling unit UNE.

article number	H mm	B mm	lock-in range mm	G kg
S				
UGEAV-50S	50	186	25	0,24
UGEAV-80S	80	186	40	0,34



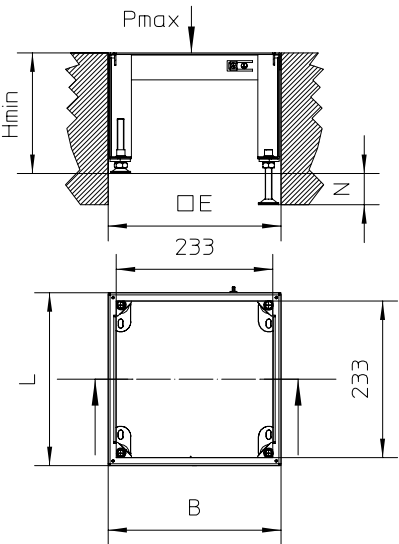
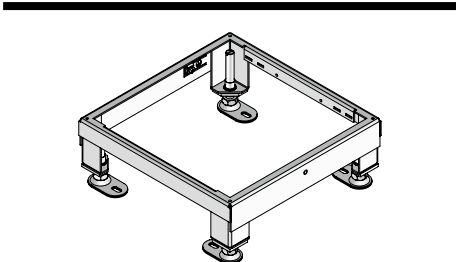
UNE levelling unit dummy, triple, quadrangular

Square levelling unit made of steel plate with inside levelling to be used in connection with square stainless steel cartridges.

article number	H _{min} mm	N mm	B mm	L mm	E mm	P _{max} kN	G kg
S							
UNE 260V-30S	65	+ 25	258	258	261 x 261	20	0,97
UNE 260V-60S	90	+ 45	258	258	261 x 261	20	1,00
UNE 260V-100S	135	+ 45	258	258	261 x 261	20	1,04
UNE 260V-155S	155	+ 95	258	258	261 x 261	10	1,10
UNE 260V-210S	212	+ 100	258	258	261 x 261	10	2,03

accessories optional:

UGEAV	set of registering leads, quadrangular	(page C34)
UGE VE	Device insert triple, for installation unit high-grade steel quadrangular	(page D27)
UGM SLF	Subsonic noise sleeve socket - levelling support	(page A14, C39)



Installation units for screed and hollow floors

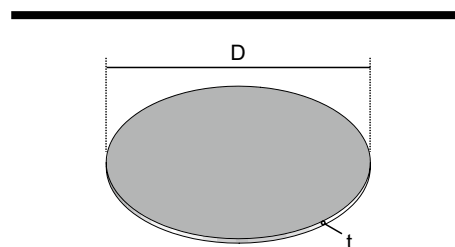
Installation unit made of high-grade steel | Accessories high-grade steel cartridges

UEBDE R cover insert, high-grade steel dummy cartridge, triple

article number	D mm	t mm	G kg
PVC			
UEBDE3-R 6	297	6	0,50

accessories optional:

UEBD R E Triple dummy cartridge unit, round, levellable (page C22)

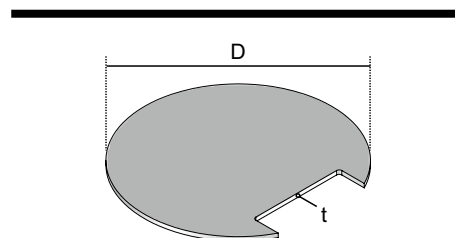


UEKDE R cover insert, high-grade steel cable outlet cartridge, triple

article number	D mm	t mm	G kg
PVC			
UEKDE3-R 6	297	6	0,50

accessories optional:

UEKD R E cartridge cover, triple, round, levellable (page C23)

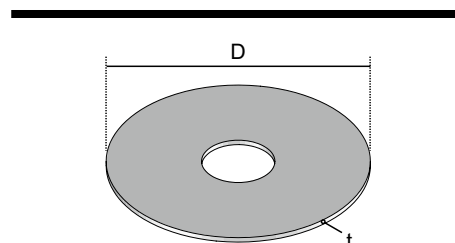


UEBDME R cover insert, tube outlet cartridge made of high-grade steel, triple

article number	D mm	t mm	G kg
PVC			
UEBDME3-R 6	297	6	0,50

accessories optional:

UEBDM R Tube cartridge unit, triple, round, levellable (page C25)



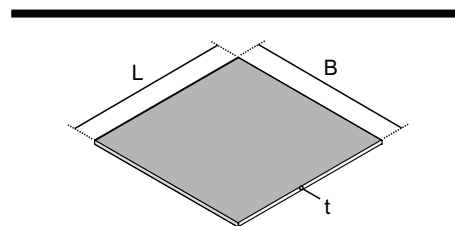
UEBDE V cover insert, high-grade steel dummy cartridge, triple

article number	B mm	L mm	t mm	G kg
PVC				
UEBDE3-V 6	245	245	6	0,50

accessories optional:

UEBD V E triple dummy cartridge unit, quadrangular (page C29)

UEBDD V E Dummy cartridge installation unit, triple, quadrangular (page C19)



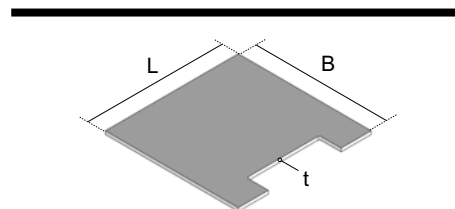
UEKDE V cover insert, high-grade steel cable outlet cartridge, triple

article number	B mm	L mm	t mm	G kg
PVC				
UEKDE3-V 6	245	245	6	0,50

accessories optional:

UEKD V E cartridge unit - hinged cover triple, quadrangular (page C31)

UEKDD V E cartridge unit - hinged cover triple, quadrangular (page C20)



Installation units for screed and hollow floors

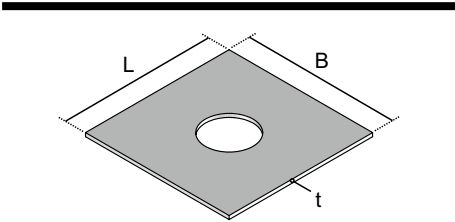
Installation unit made of high-grade steel | Accessories high-grade steel cartridges

UEBDME V

cover insert, tube outlet cartridge made of high-grade steel, triple

article number	B mm	L mm	t mm	G kg
PVC				
UEBDME3-V 6	245	245	6	0,50

accessories optional:
UEBDM V tube-cartridge unit triple, quadrangular (page C32)

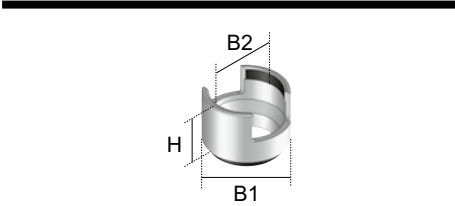


UET

tube for wet maintenance

article number	H mm	B1 mm	B2 mm	G kg
E				
UET-R-WD E	45	70	50	0,36
AL				
UET-R-WD	45	70	50	0,12
MS				
UET-R-WD-MS	45	70	50	0,36

accessories optional:
UETD tube cover (page C36)

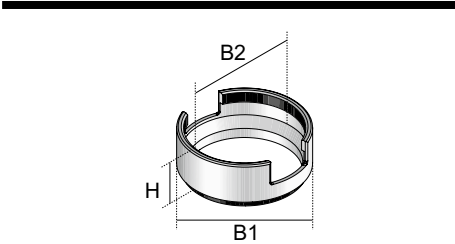


UET112

tube for wet maintenance

article number	H mm	B1 mm	B2 mm	G kg
AL				
UET112-R-WD	36	112	94	0,15

accessories optional:
UETD112 tube cover (page C37)



UETD

tube cover

article number	G kg
E	
UETD-R-WD E	0,28
AL	
UETD-R-WD	0,10
MS	
UETD-R-WD-MMS	0,28

accessories optional:
UET tube for wet maintenance (page C36)



Installation units for screed and hollow floors

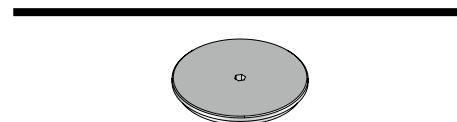
Installation unit made of high-grade steel | Accessories high-grade steel cartridges

UETD112 tube cover

article number	G
	kg
AL	
UETD112-R-WD	0,27

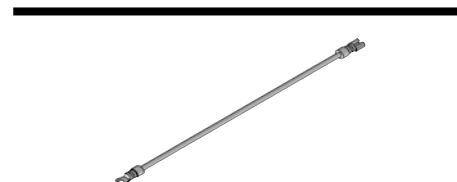
accessories optional:

UET112 tube for wet maintenance (page C36)



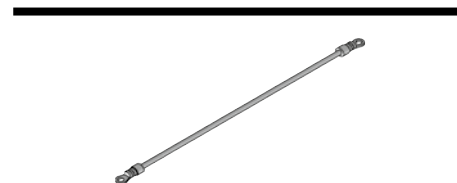
UVA GB grounding line

article number	G
	kg
CU	
UVA-GB-2.5-15	0,01
UVA-GB-2.5-30	0,01



UVA GB1 grounding line

article number	G
	kg
CU	
UVA-GB1-2.5-15	0,01
UVA-GB1-4.0-15	0,02



UGDB15 rubber seal, round

article number	H	L	t	G
	mm	mm	mm	kg
G				
UGDB15-R300 1.8	15	1000	1,8	0,02

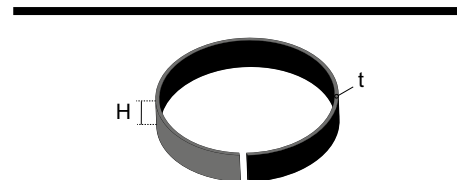
accessories optional:

UEBD R E Triple dummy cartridge unit, round, levellable (page C22)

UEBDM R Tube cartridge unit, triple, round, levellable (page C25)

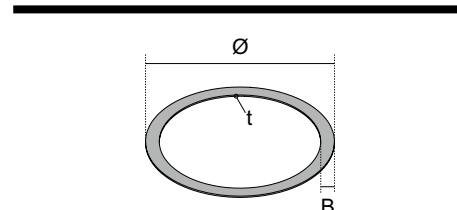
UEBDS R E heavy-duty dummy cartridge unit, triple, round, levellable (page C22)

UEBDSM R heavy-duty tube-cartridge unit triple, round, levellable (page C25)



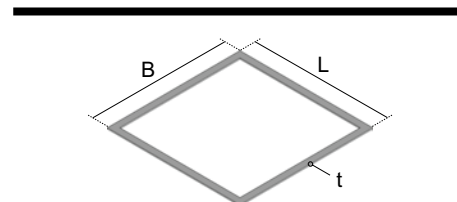
UGD R rubber seal, round

article number	B	Ø	t	G
	mm	mm	mm	kg
G				
UGD-R 10-2	10	297	2	0,02



UGD V rubber seal, quadrangular

article number	B	L	t	G
	mm	mm	mm	kg
G				
UGD-V 2	252	252	2	0,02



accessories optional:

UEKD V E cartridge unit - hinged cover triple, quadrangular (page C31)

UEBDD V E Dummy cartridge installation unit, triple, quadrangular (page C19)

UEKDS V E heavy-duty cable outlet cartridge, triple, quadrangular (page C31)

UEKDD V E cartridge unit - hinged cover triple, quadrangular (page C20)

Installation units for screed and hollow floors

Installation unit made of high-grade steel | Accessories high-grade steel cartridges

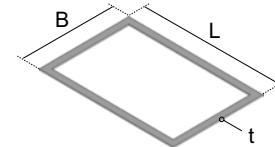
UGD2 V rubber seal, quadrangular

article number	B mm	L mm	t mm	G kg
G				
UGD2-V 2	179	252	2	0,02

accessories optional:

UEKDD2 V E cartridge unit - hinged cover double, quadrangular (page C20)

UEBDD2 V E cartridge installation unit dummy cover double, quadrangular (page C18)



UGD3 V rubber seal, quadrangular

article number	B mm	L mm	t mm	G kg
G				
UGD3-V 2	253	253	2,5	0,02

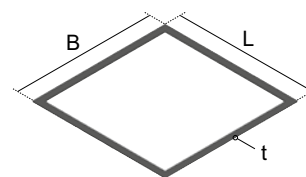
accessories optional:

UEBD V E triple dummy cartridge unit, quadrangular (page C29)

UEBDS V E heavy-duty dummy cartridge unit, triple, quadrangular (page C29)

UEBDM V tube-cartridge unit triple, quadrangular (page C32)

UEBDSM V heavy-duty tube-cartridge unit triple, quadrangular (page C33)

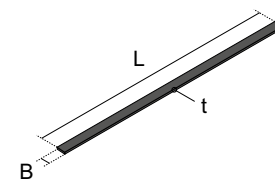


UGD 20 rubber strips

article number	B mm	L mm	t mm	G kg
G				
UGD 20-2	20	10000	2	0,02

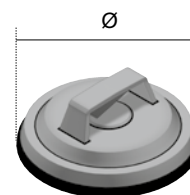
accessories optional:

UBKPR side profile (page A19)



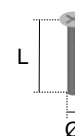
USH 40 siphon

article number	Ø mm	Tk kg	G kg
G S			
USH 40	120	40	0,28



UKS Phillips screw

article number	Ø mm	L mm	G kg
S			
UKS M4x50	4	50	0,01
UKS M4x60	4	60	0,01
UKS M4x100	4	100	0,01
UKS M8x150	8	150	0,05
UKS M10x80	10	80	0,05
UKS M10x150	10	150	0,05
E			
UKS M4x10E	4	10	0,01
UKS M4x16E	4	16	0,01



Installation units for screed and hollow floors

Installation unit made of high-grade steel | Accessories high-grade steel cartridges

UGEAR ELS

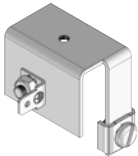
grounding angle bracket

article number	G
	kg
S	
UGEAR-ELS	0,02

accessories optional:

UEBD R ETriple dummy cartridge unit, round, levellable (page C22)

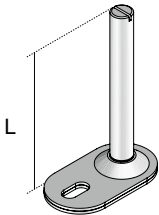
UEBDS R Eheavy-duty dummy cartridge unit, triple, round, levellable (page C22)



UBDSLFL

levelling support

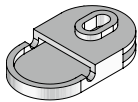
article number	L	G
	mm	kg
S		
UBDSLFL 60	60	0,07
UBDSLFL 80	80	0,07
UBDSLFL 150	150	0,09

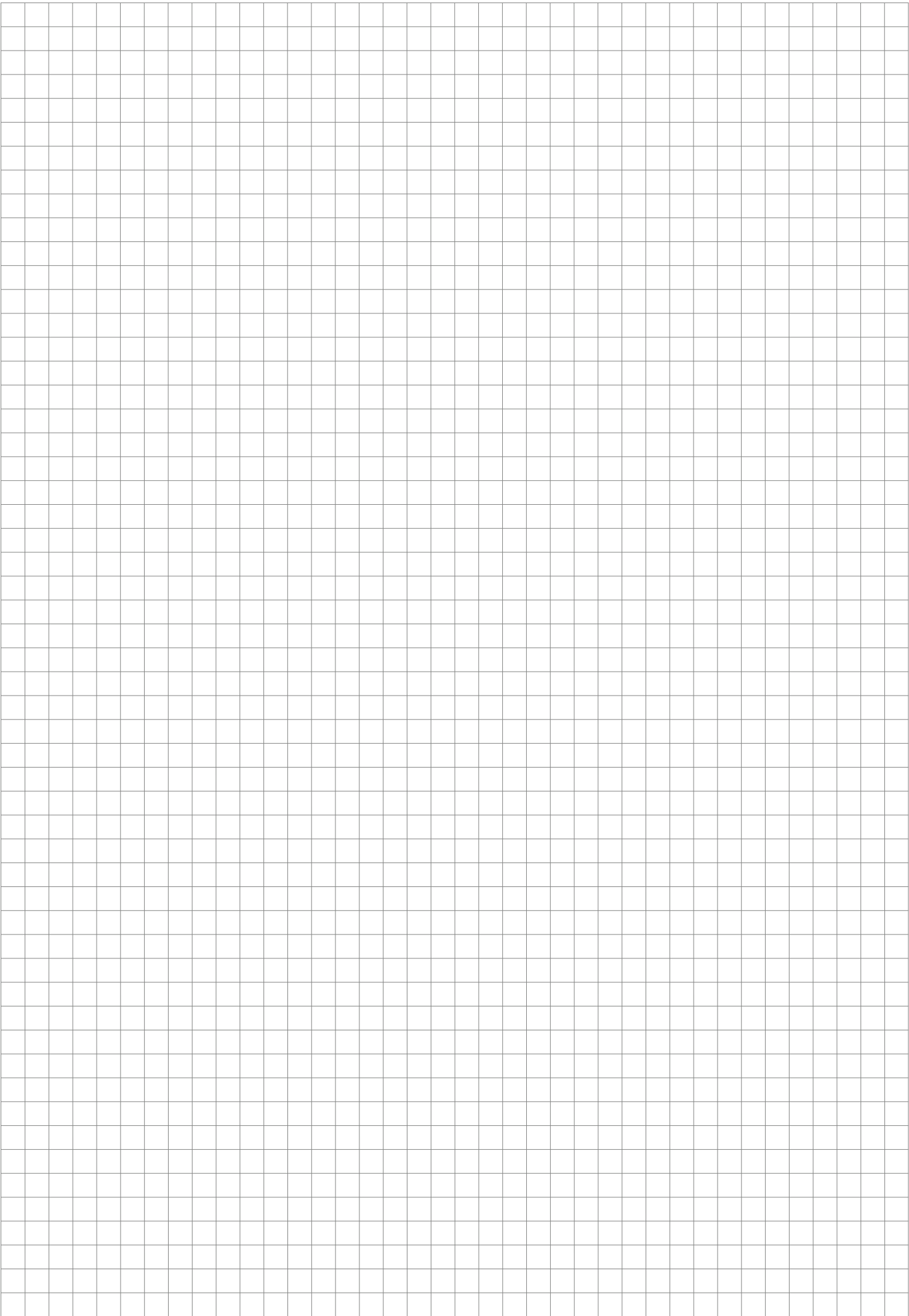


UGM SLF

Subsonic noise sleeve socket - levelling support

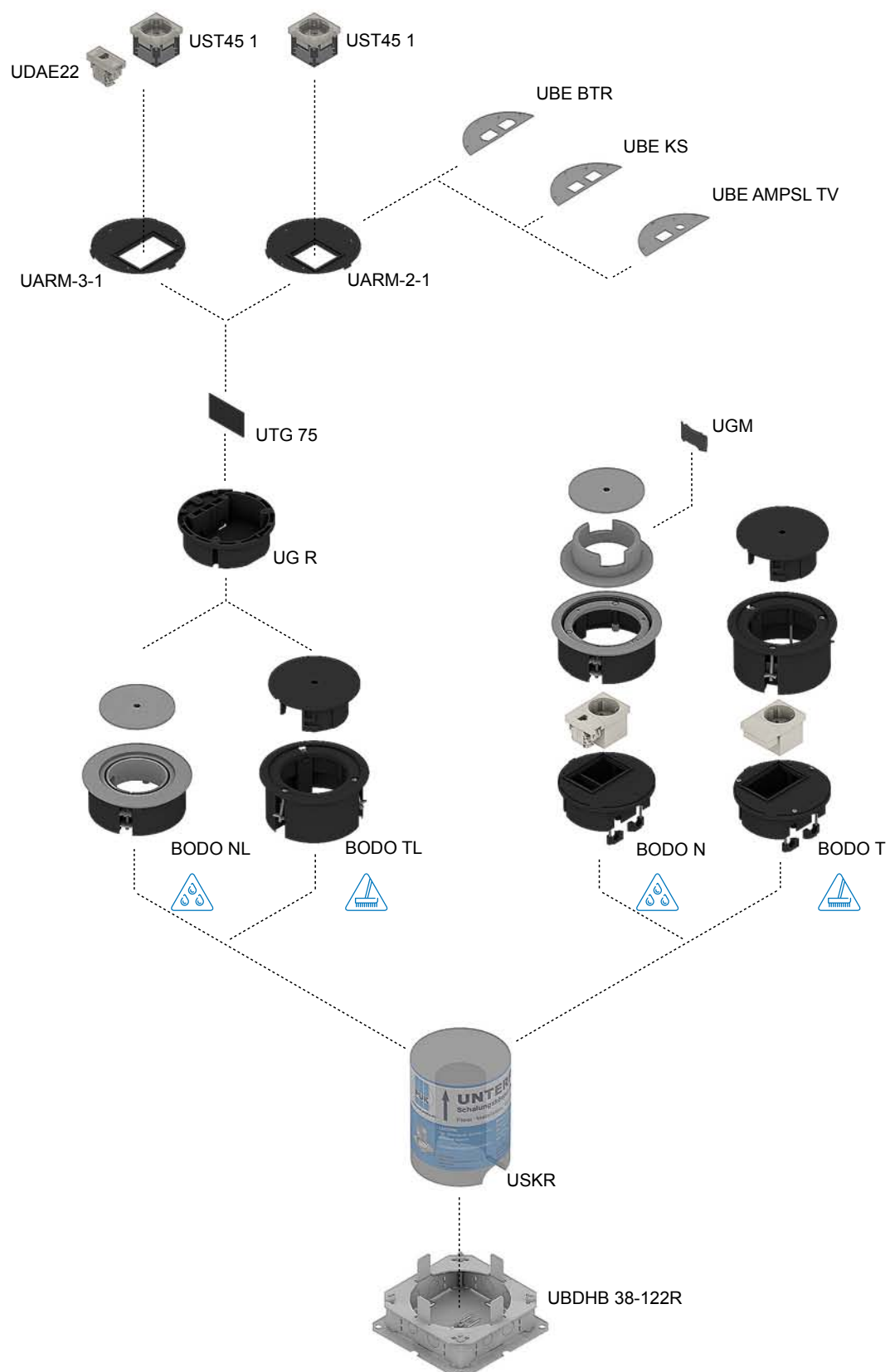
article number	G
	kg
PVC	
UGM-SLF	0,01





System overview

Installation units for screed and hollow floors



Installation units for screed and hollow floors

Single outlet BODO, round

BODO N Single outlet with floor box and data module, wet-maintenance, round

Round single outlet made of aluminium with floor cover protection frame equipped with a floor socket and a data module for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	E mm	P _{max} kN	colour	IP _n	IP _g	G kg
E									
BODO N-E	122	87	140	122	15	Stainless steel	IP 66	IP 43	2,06
AL									
BODO N	122	87	140	122	15	aluminum	IP 66	IP 43	0,74
BODO N-CR	122	87	140	122	15	chromed aluminium	IP 66	IP 43	0,74
BODO N-CU	122	87	140	122	15	copper	IP 66	IP 43	0,74
BODO N-GO	122	87	140	122	15	Gold	IP 66	IP 43	0,74
BODO N-MS	122	87	140	122	15	brass	IP 66	IP 43	0,74
BODO N-SW	122	87	140	122	15	black	IP 66	IP 43	0,74
BODO N-TI	122	87	140	122	15	Titan	IP 66	IP 43	0,74
MS									
BODO N-MMS	122	87	140	122	15	solid brass	IP 66	IP 43	0,74

accessories included:

1 x UET80-R-WD	tube for wet maintenance	(page C45)
1 x UETD80-R-WD	tube cover	(page C45)
1 x UDAE22-CAT6 8	data systems installation device single	(page D36)
1 x UST45-W 1	shockproof socket single	(page D32)
1 x UTG 75	device separation plate	(page D04)
1 x UARM-3-1 118	Cover plate for 3x UDAE22	(page D04)
1 x UG-R	device installation cup, round	(page D04)
2 x UGM1-3	rubber sleeve	(page C46)
1 x UWZ-IS 8	Allen wrench	(page C45)

accessories optional:

USK R122	shuttering, round	(page C46)
UBDHB 122R	Hollow-space floor box, single, round	(page B10)

BODO N3 Single-outlet with floor socket outlet, wet maintenance, round

Round single outlet made of aluminium with a floor protection frame equipped with a floor socket for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

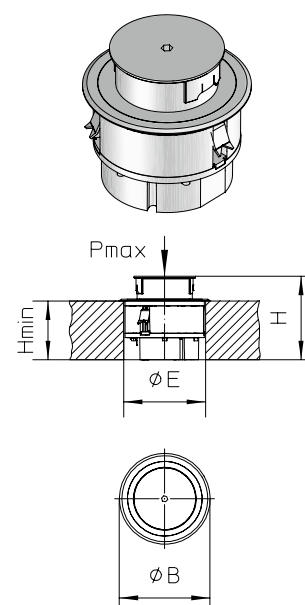
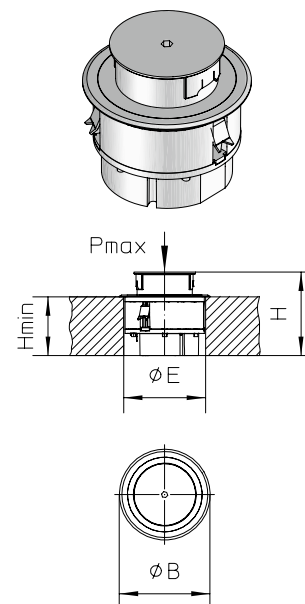
article number	H mm	H _{min} mm	B mm	E mm	P _{max} kN	colour	IP _n	IP _g	G kg
E									
BODO N3-E	122	87	140	122	15	Stainless steel	IP 66	IP 43	2,00
AL									
BODO N3	122	87	140	122	15	aluminum	IP 66	IP 43	0,74
BODO N3-CR	122	87	140	122	15	chromed aluminium	IP 66	IP 43	0,74
BODO N3-MS	122	87	140	122	15	brass	IP 66	IP 43	0,74
BODO N3-SW	122	87	140	122	15	black	IP 66	IP 43	0,74

accessories included:

1 x UET80-R-WD	tube for wet maintenance	(page C45)
1 x UETD80-R-WD	tube cover	(page C45)
1 x UST45-W 1	shockproof socket single	(page D32)
1 x UTG 75	device separation plate	(page D04)
1 x UARM-3-1 118	Cover plate for 3x UDAE22	(page D04)
1 x UG-R	device installation cup, round	(page D04)
2 x UGM1-3	rubber sleeve	(page C46)
1 x UDA22-KS 1	Data cover, Keystone	(page D36)
1 x UWZ-IS 8	Allen wrench	(page C45)

accessories optional:

USK R122	shuttering, round	(page C46)
UBDHB 122R	Hollow-space floor box, single, round	(page B10)



Installation units for screed and hollow floors

Single outlet BODO, round

BODO N3 Single-outlet with floor socket outlet, wet maintenance, round

Round single outlet made of aluminium with a floor protection frame equipped with a floor socket for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

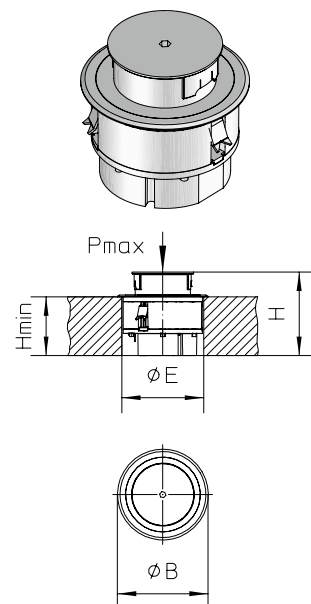
article number	H mm	H _{min} mm	B mm	E mm	P _{max} kN	colour	IP _n	IP _g	G kg
MS									
BODO N3-MMS	122	87	140	122	15	solid brass	IP 66	IP 43	0,74

accessories included:

1 x UET80-R-WD	tube for wet maintenance	(page C45)
1 x UETD80-R-WD	tube cover	(page C45)
1 x UST45-W 1	shockproof socket single	(page D32)
1 x UTG 75	device separation plate	(page D04)
1 x UARM-3-1 118	Cover plate for 3x UDAE22	(page D04)
1 x UG-R	device installation cup, round	(page D04)
2 x UGM1-3	rubber sleeve	(page C46)
1 x UDA22-KS 1	Data cover, Keystone	(page D36)
1 x UWZ-IS 8	Allen wrench	(page C45)

accessories optional:

USK R122	shuttering, round	(page C46)
UBDHB 122R	Hollow-space floor box, single, round	(page B10)



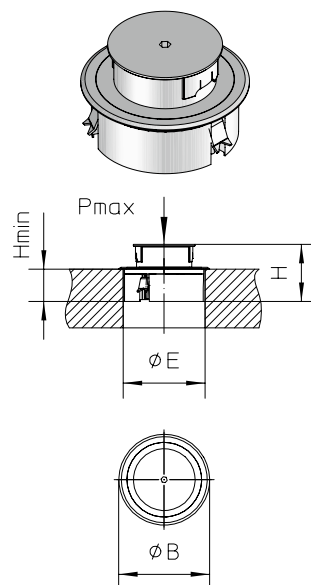
BODO NL Single-outlet, wet maintenance, round, empty

Round single outlet, made of aluminium, with floor cover protection frame for rooms with wet-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	E mm	P _{max} kN	colour	IP _n	IP _g	G kg
E									
BODO NL-E	83	48	140	122	15	Stainless steel	IP 66	IP 43	1,32
AL									
BODO NL	83	48	140	122	15	aluminum	IP 66	IP 43	0,48
BODO NL-CR	83	48	140	122	15	chromed aluminium	IP 66	IP 43	0,48
BODO NL-CU	83	48	140	122	15	copper	IP 66	IP 43	0,48
BODO NL-GO	83	48	140	122	15	Gold	IP 66	IP 43	0,48
BODO NL-MS	83	48	140	122	15	brass	IP 66	IP 43	0,48
BODO NL-SW	83	48	140	122	15	black	IP 66	IP 43	0,48
BODO NL-TI	83	48	140	122	15	Titan	IP 66	IP 43	0,48
MS									
BODO NL-MMS	83	48	140	122	15	solid brass	IP 66	IP 43	0,48



Installation units for screed and hollow floors

Single outlet BODO, round

BODO T Single-outlet with floor socket outlet, dry maintenance, round

Round plastic single outlet with floor cover protection frame equipped with a floor socket for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

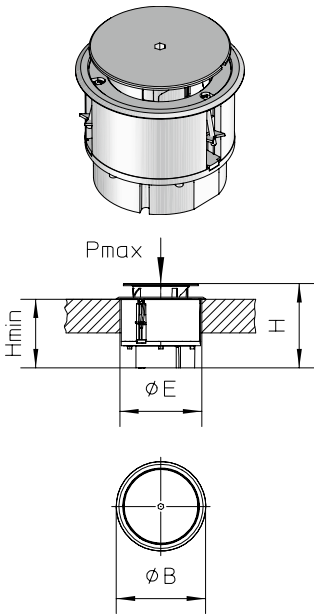
article number	H mm	H _{min} mm	B mm	E mm	P _{max} kN	colour	IP _n	IP _g	G kg
ABS									
BODO T-G	126	102	133	122	1,5	RAL 7011 (iron grey)	IP 30	IP 20	0,40
BODO T-S	126	102	133	122	1,5	RAL 9011 (graphite black)	IP 30	IP 20	0,40

accessories included:

1 x UAA-B 22	cover	(page D37)
1 x UST45-W 1	shockproof socket single	(page D32)
1 x UARM-3-1 118	Cover plate for 3x UDAE22	(page D04)
1 x UG-R	device installation cup, round	(page D04)

accessories optional:

USK R122	shuttering, round	(page C46)
UBDHB 122R	Hollow-space floor box, single, round	(page B10)
UWZ IS	Allen wrench	(page C45)



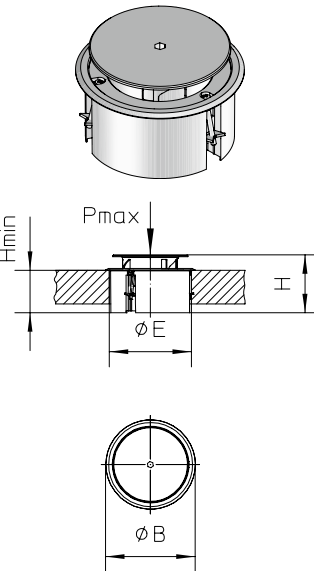
BODO TL Single-outlet, dry maintenance, round, empty

Round single outlet, made of plastic, with a floor cover protection frame for rooms with dry-maintenance floors.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	E mm	P _{max} kN	colour	IP _n	IP _g	G kg
ABS									
BODO TL-G	87	63	133	122	1,5	RAL 7011 (iron grey)	IP 30	IP 20	0,20
BODO TL-S	87	63	133	122	1,5	RAL 9011 (graphite black)	IP 30	IP 20	0,20

accessories optional:

UG R	device installation cup, round	(page D04)
UTG 75	device separation plate	(page D04)
UARM-2-1	Cover plate for 2x UDAE22	(page D04)
UARM-3-1	Cover plate for 3x UDAE22	(page D04)
USK R122	shuttering, round	(page C46)
UBDHB 122R	Hollow-space floor box, single, round	(page B10)
UWZ IS	Allen wrench	(page C45)



Installation units for screed and hollow floors

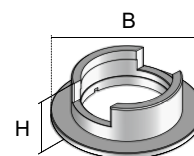
Single outlet BODO, round | Accessories

UET80 tube for wet maintenance

article number	H mm	B mm	colour	G kg
E				
UET80-R-WD-E	34,5	112	Stainless steel	0,49
AL				
UET80-R-WD	34,5	112	aluminum	0,13
UET80-R-WD-CR	34,5	112	chromed aluminium	0,13
UET80-R-WD-CU	34,5	112	copper	0,13
UET80-R-WD-GO	34,5	112	Gold	0,13
UET80-R-WD-MS	34,5	112	brass	0,13
UET80-R-WD-SW	34,5	112	black	0,13
UET80-R-WD-TI	34,5	112	Titan	0,13
MS				
UET80-R-WD-MMS	34,5	112	solid brass	0,13

accessories optional:

UETD80 tube cover (page C45)

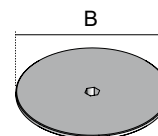


UETD80 tube cover

article number	B mm	colour	G kg
E			
UETD80-R-WD-E	92	Stainless steel	0,34
AL			
UETD80-R-WD	92	aluminum	0,11
UETD80-R-WD-CR	92	chromed aluminium	0,11
UETD80-R-WD-CU	92	copper	0,11
UETD80-R-WD-GO	92	Gold	0,11
UETD80-R-WD-MS	92	brass	0,11
UETD80-R-WD-SW	92	black	0,11
UETD80-R-WD-TI	92	Titan	0,11
MS			
UETD80-R-WD-MMS	92	solid brass	0,11

accessories optional:

UET80 tube for wet maintenance (page C45)



UWZ IS Allen wrench

article number	G kg
E	
UWZ-IS 8	0,06



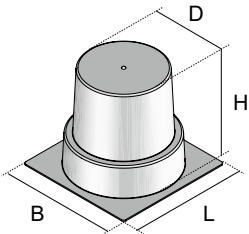
Installation units for screed and hollow floors

Single outlet BODO, round | Accessories

USK R122 shuttering, round

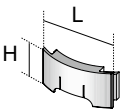
article number	H mm	B mm	D mm	L mm	colour	G kg
PP						
USK-R122	150	180	122	180	black	0,81

accessories optional:		
BODO T	Single-outlet with floor socket outlet, dry maintenance, round	(page C44)
BODO TL	Single-outlet, dry maintenance, round, empty	(page C44)
BODO N	Single outlet with floor box and data module, wet-maintenance, round	(page C42)
BODO N3	Single-outlet with floor socket outlet, wet maintenance, round	(page C42)
BODO NL	Single-outlet, wet maintenance, round, empty	(page C43)

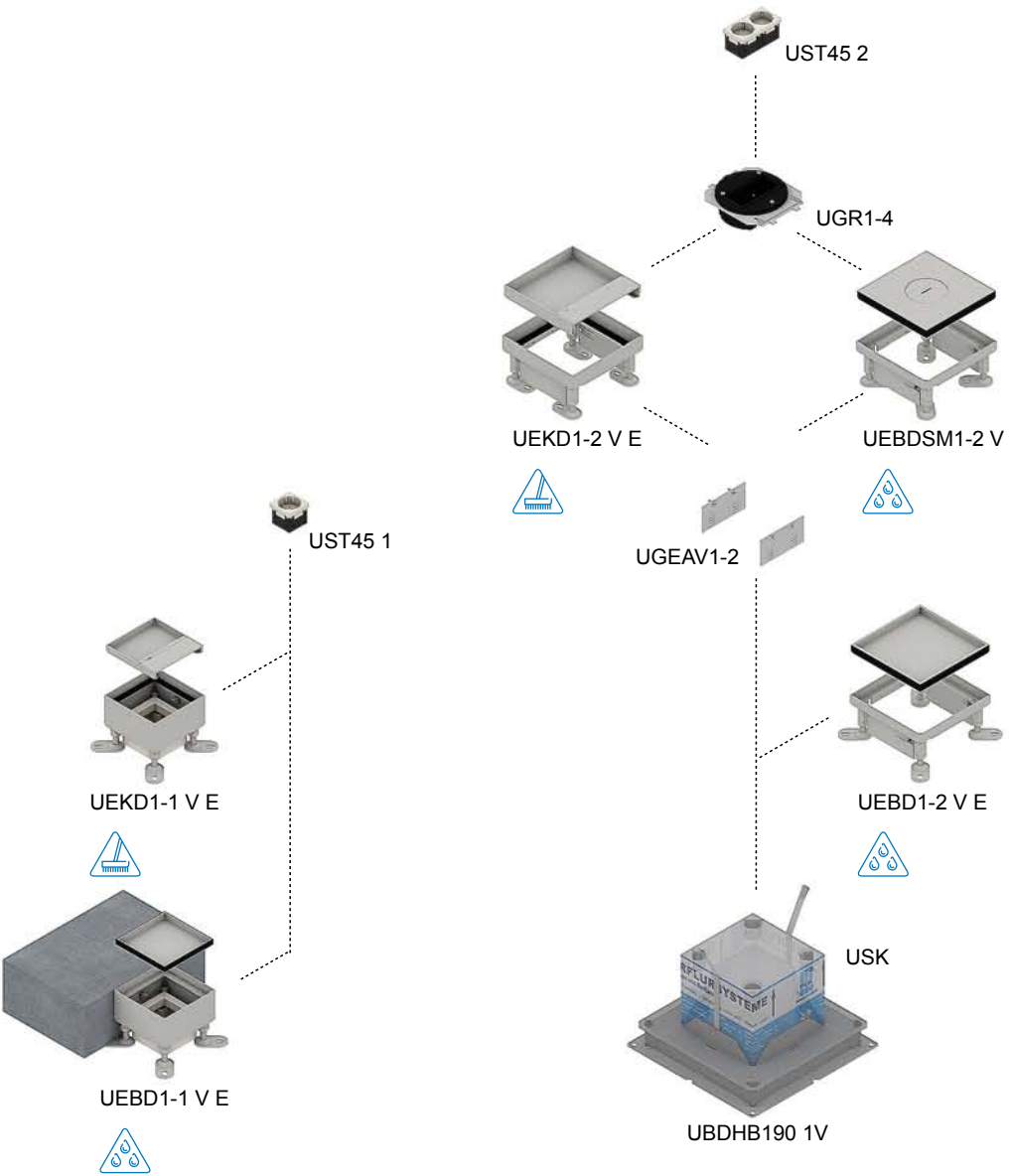


UGM rubber sleeve

article number	H mm	L mm	G kg
G			
UGM1-3	23	44	0,01



System overview
Installation units for screed and hollow floors



Installation units for screed and hollow floors

Single outlet, quadrangular

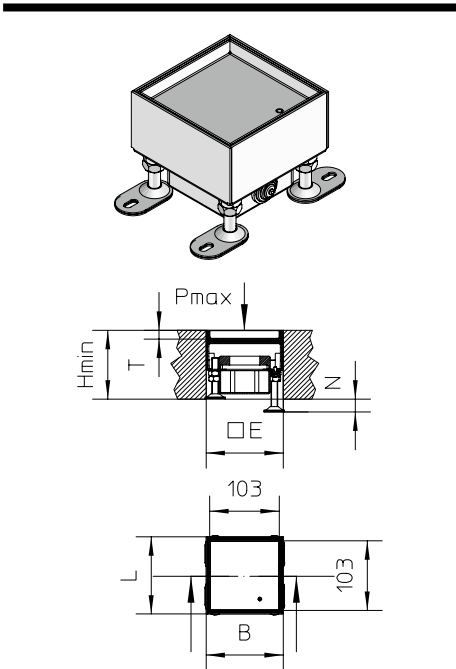
UEBD1-1 V E Dummy single-outlet cartridge, quadrangular, levellable

Square dummy single outlet cartridge for direct screed installation made of stainless steel sheet with hem to accommodate one 45x45 mm installation device for rooms with wet-maintenance floor covers.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H _{min} mm	N mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E G									
UEBD1-1 15-V E	100	+ 40	115	115	115 x 115	12	2	IP 54	2,20

accessories included:
1 x **UGD1-1-V 2** rubber seal, quadrangular (page C51)
1 x **UEBD1-G45** Body single outlet (page C51)

accessories optional:
UST45 1 shockproof socket single (page D32)
UDAE22 data systems installation device single (page D36)



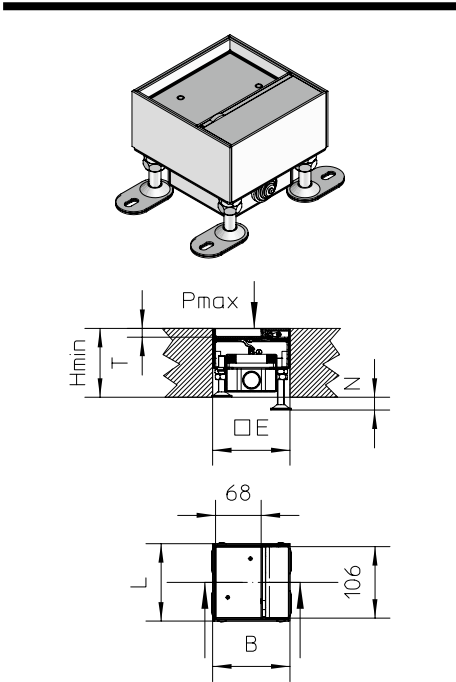
UEKD1-1 V E Single-outlet cable cartridge, one-piece, quadrangular, levellable

Square cable single outlet cartridge for direct screed installation, made of stainless steel, with hem, to accommodate one 45x45mm installation device, for rooms with dry maintenance floor covers.
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H _{min} mm	N mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E G										
UEKD1-1 15-V E	100	+ 40	115	115	115 x 115	12	2	IP 30	IP 20	1,70

accessories included:
1 x **UGD1-1-V 2** rubber seal, quadrangular (page C51)
1 x **UEKD1-1-G45** Body single outlet (page C51)

accessories optional:
UST45 1 shockproof socket single (page D32)
UDAE22 data systems installation device single (page D36)



Installation units for screed and hollow floors

Single outlet, quadrangular

UEBD1-2 V E Dummy single-outlet cartridge, quadrangular, levellable

Square dummy single outlet cartridge made of stainless steel sheet as an inspection chamber with hem for rooms with wet-maintenance floor covers.

Please mind the technical information in chapter planning.

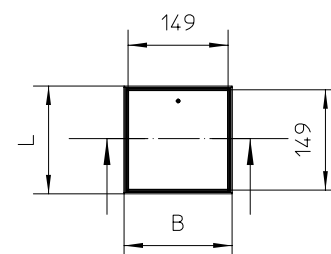
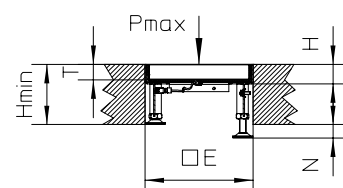
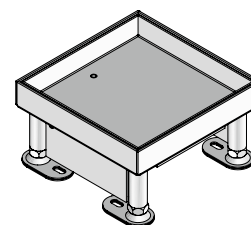
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	G kg
E G										
UEBD1-2 15-V E	19	80	+ 45	160	160	164 x 164	12	2	IP 54	1,80
UEBD1-2 25-V E	29	90	+ 45	160	160	164 x 164	22	2	IP 54	1,90

accessories optional:

UGEAV1-2 set of registering leads, quadrangular (page C50)

UGR1-4 Device cup, round, pre-assembled (page C50)



UEKD1-2 V E Single-outlet cable cartridge, quadrangular, levellable

Angular single cable outlet cartridge made of high-grade sheet steel with abutting edge for one device cup for the installation of two 45x45 mm installation devices, for rooms with dry maintenance floor covers.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E G											
UEKD1-2 15-V E	19	80	+ 45	160	160	164 x 164	12	2	IP 30	IP 20	1,12
UEKD1-2 25-V E	29	90	+ 45	160	160	164 x 164	22	2	IP 30	IP 20	1,30

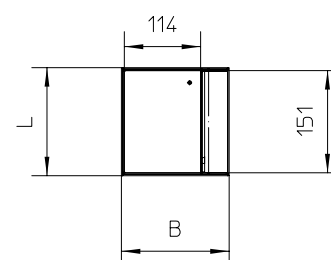
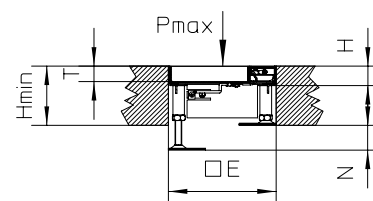
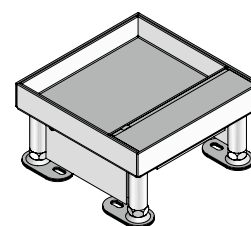
MS | G

UEKD1-2 25-V MS	29	90	+ 45	160	160	164 x 164	22	2	IP 30	IP 20	1,30
------------------------	----	----	------	-----	-----	-----------	----	---	-------	-------	------

accessories optional:

UGEAV1-2 set of registering leads, quadrangular (page C50)

UGR1-4 Device cup, round, pre-assembled (page C50)



Installation units for screed and hollow floors

Single outlet, quadrangular

UEBDSM1-2 V heavy-duty tube single outlet cartridge, quadrangular, levellable

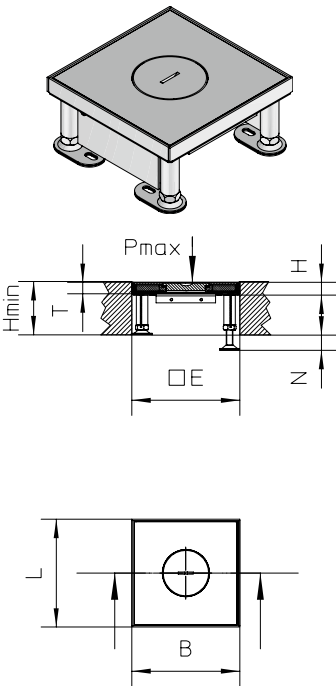
Angular heavy-duty tube single cable outlet cartridge made of high-grade sheet steel with abutting edge for one device cup for the installation of two 45x45 mm installation devices, for rooms with wet maintenance floor covers. Please mind the technical information in chapter planning. For assembly instructions, see the chapter assembly.



article number	H mm	H _{min} mm	N mm	B mm	L mm	E mm	P _{max} kN	IP _n	IP _g	G kg
E G										
UEBDSM1-2 15-V8-WD	19	80	+ 45	160	160	164 x 164	20	IP 54	IP 22	4,39

accessories included:
1 x UETD-R-WD tube cover (page C36)

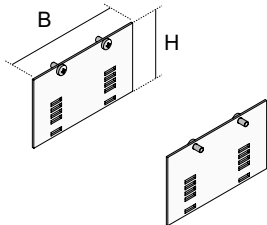
accessories optional:
UGEAV1-2 set of registering leads, quadrangular (page C50)
UGR1-4 Device cup, round, pre-assembled (page C50)
UET tube for wet maintenance (page C36)



UGEAV1-2 set of registering leads, quadrangular

To be screwed to a single outlet.

article number	H mm	B mm	lock-in range mm	G kg
S				
UGEAV1-2 50S	59,0	98	25	0,13
UGEAV1-2 80S	83,4	98	25	0,19

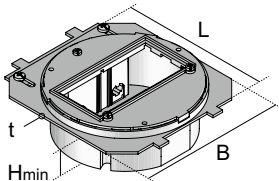


UGR1-4 Device cup, round, pre-assembled

For the insertion of two 45x45 mm installation devices.

article number	H _{min} mm	B mm	L mm	t mm	G kg
S					
UGR1-4	70	128	125	2	0,30

accessories optional:
UG R device installation cup, round (page D04)



Installation units for screed and hollow floors

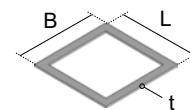
Single outlet, quadrangular | Accessories

UGD1-1 V rubber seal, quadrangular

article number	B mm	L mm	t mm	G kg
G				
UGD1-1-V 2	110	110	2	0,01

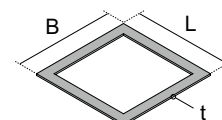
accessories optional:

UEBD1-1 V E Dummy single-outlet cartridge, quadrangular, levellable (page C48)
UEKD1-1 V E Single-outlet cable cartridge, one-piece, quadrangular, levellable (page C48)



UGKD1-2 V 2 rubber seal, quadrangular

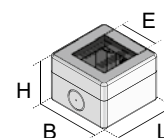
article number	B mm	L mm	t mm	G kg
G				
UGKD1-2-V 2	119	119	2	0,01



UEBD1 G45 Body single outlet

For the insertion of one 45x45 mm installation device.

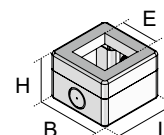
article number	H mm	B mm	L mm	E mm	colour	G kg
PP ABS						
UEBD1-G45	63	75,5	75,5	45 x 45	light grey (similar RAL 7035)	0,09

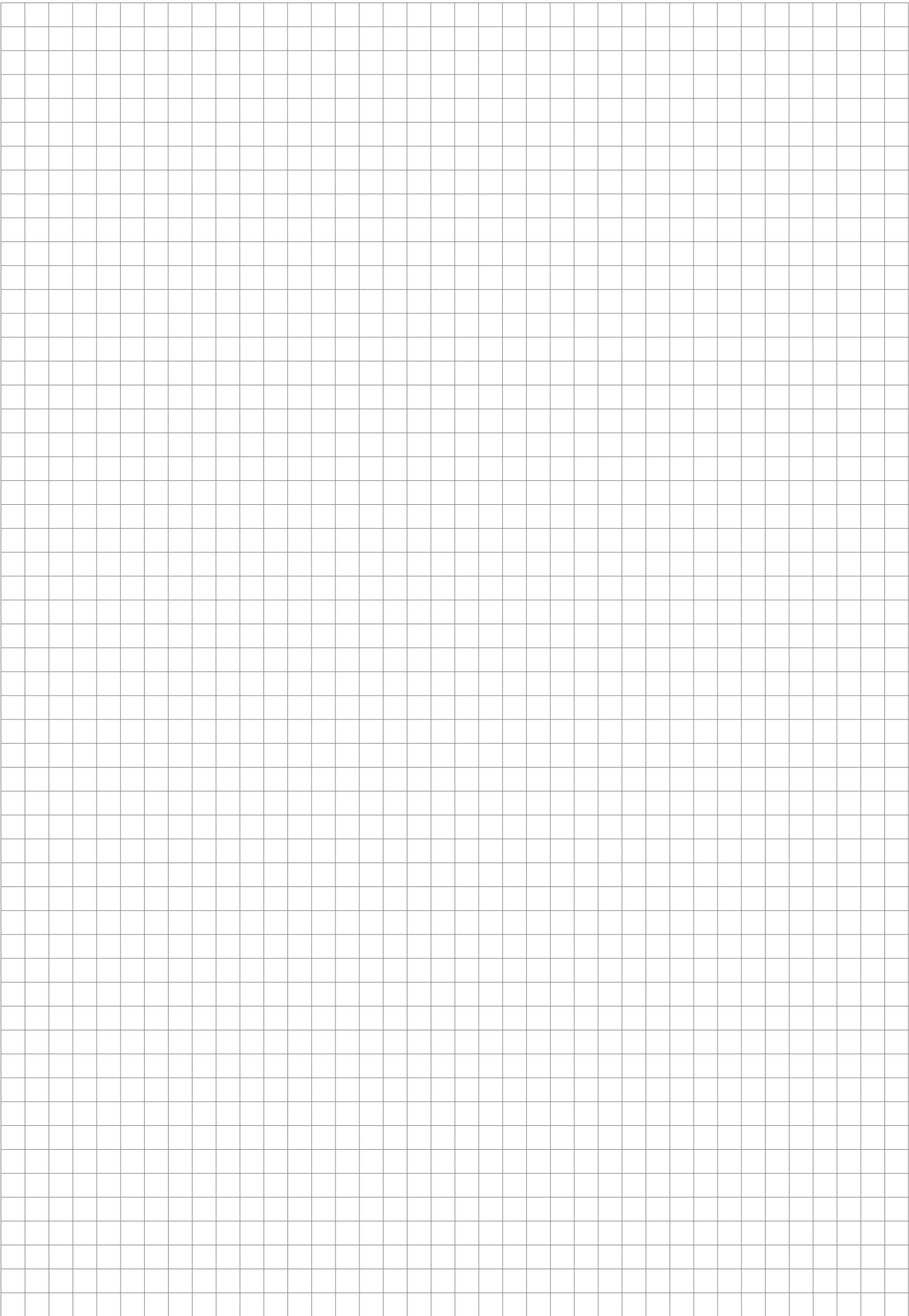


UEKD1-1 G45 Body single outlet

For the insertion of one 45x45 mm installation device.

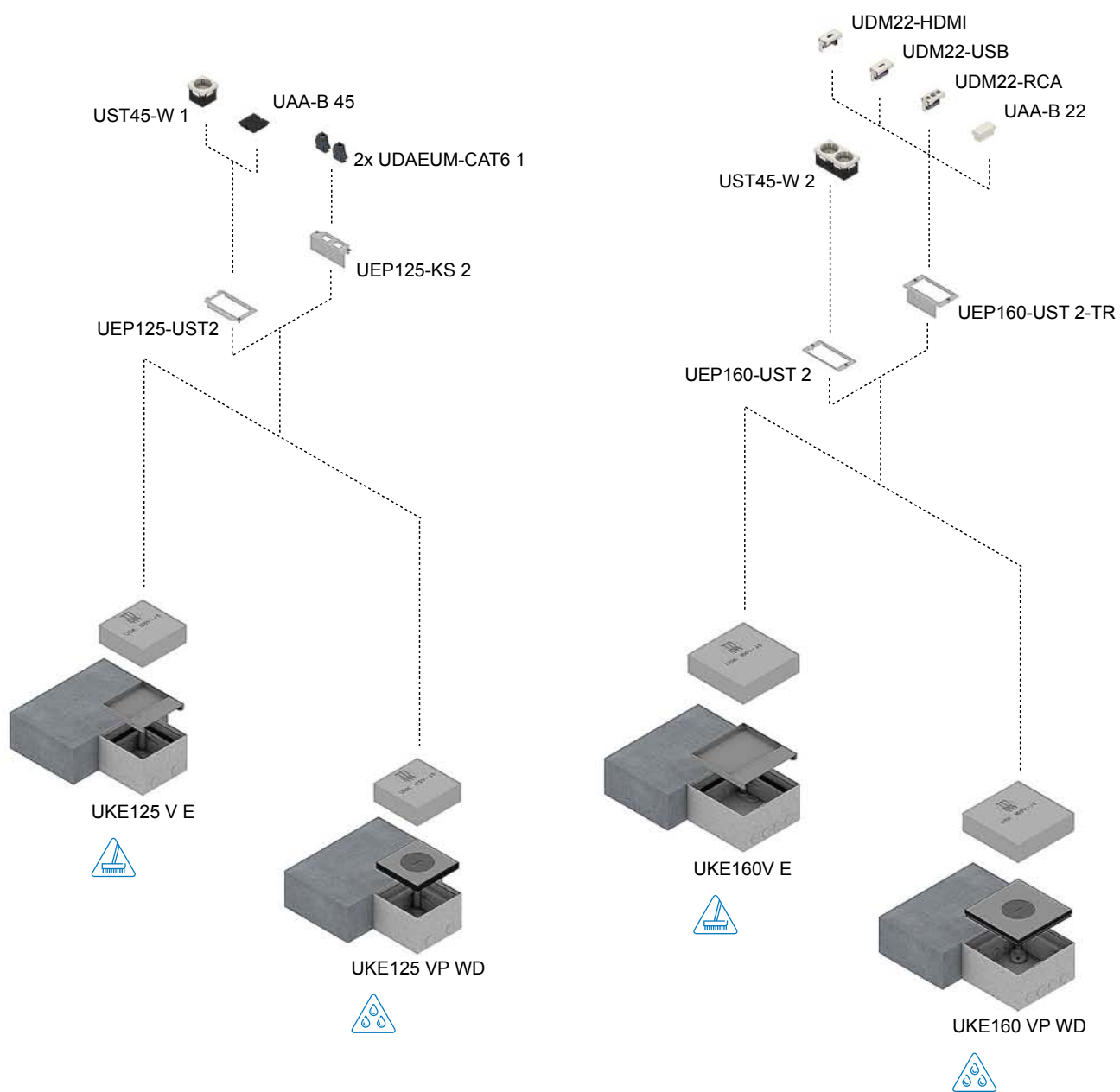
article number	H mm	B mm	L mm	E mm	colour	G kg
PP ABS						
UEKD1-1-G45	53	75,5	75,5	45 x 45	light grey (similar RAL 7035)	0,09





System overview

Installation units for screed and hollow floors



Installation units for screed and hollow floors

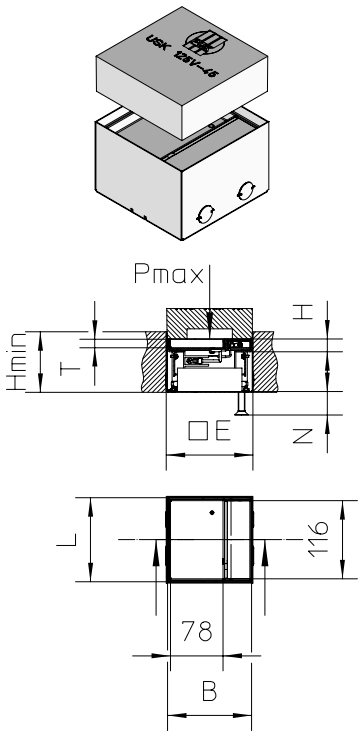
Compact single outlet

UKE125 V Compact single outlet with cable outlet

Angular cable outlet compact single outlet for screed mounting made of high-grade sheet steel with abutting edge for up to two 45x45 mm installation devices and two data jacks, for rooms with dry-maintenance floor covers. For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E G											
UKE125 15-V E	15	90	+35	125	125	134 x 134	12	2	IP 30	IP 20	1,74
UKE125 25-V E	25	100	+35	125	125	134 x 134	22	2	IP 30	IP 20	1,93
MS G											
UKE125 25-V MS	25	100	+35	125	125	134 x 134	19	2	IP 30	IP 20	1,96

accessories optional:
UEP125 KS Adapter board for Keystone modules for compact single outlets (page C56)
UEP125 UST Adapter board for sockets for compact single outlets (page C56)

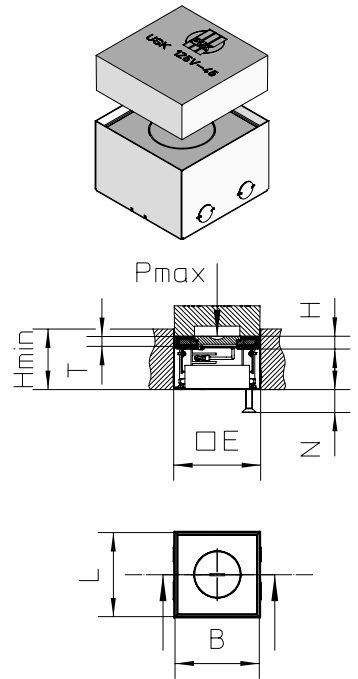


UKE125 VP WD Compact single outlet with tube outlet

Angular tube compact single outlet for screed mounting made of high-grade sheet steel with abutting edge for up to two 45x45 mm installation devices and two data jacks, for rooms with wet-maintenance floor covers. For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	N mm	B mm	L mm	E mm	P _{max} kN	IP _n	IP _g	G kg
E G										
UKE125 15-VP-WD	15	90	+35	125	125	134 x 134	20	IP 54	IP 22	2,60

accessories optional:
UEP125 KS Adapter board for Keystone modules for compact single outlets (page C56)
UEP125 UST Adapter board for sockets for compact single outlets (page C56)
UET tube for wet maintenance (page C36)
UEP125 B Adapter board for sockets for compact single outlets, dummy (page C56)



Installation units for screed and hollow floors

Compact single outlet

UKE160 V Compact single outlet with cable outlet

Angular cable outlet compact single outlet for screed mounting made of high-grade sheet steel with abutting edge for up to four 45x45 mm installation devices, for rooms with dry-maintenance floor covers.

For assembly instructions, see the chapter assembly.

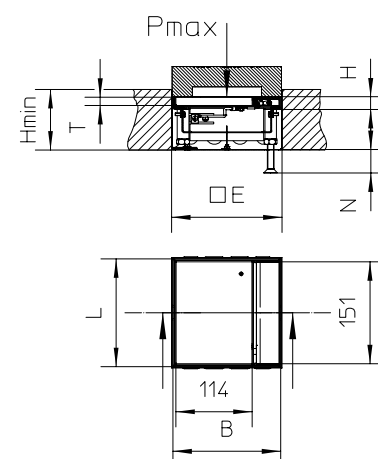
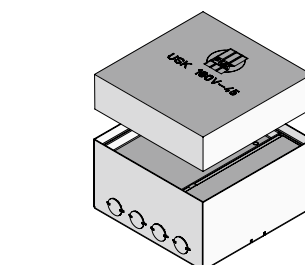


article number	H mm	H _{min} mm	N mm	B mm	L mm	E mm	Tiefe mm	P _{max} kN	IP _n	IP _g	G kg
E G											
UKE160 15-V E	15	90	+35	160	160	166 x 166	12	2	IP 30	IP 20	2,39
UKE160 25-V E	25	100	+35	160	160	166 x 166	22	2	IP 30	IP 20	2,40
MS G											
UKE160 25-V MS	25	100	+35	160	160	166 x 166	19	2	IP 30	IP 20	3,40

accessories optional:

UEP160 UST Adapter board for sockets for compact single outlets (page C56)

UEP160 UST-TR Adapter board, data/multimedia (page C56)



UKE160 VP WD Compact single outlet with tube outlet

Angular tube compact single outlet for screed mounting made of high-grade sheet steel with abutting edge for up to four 45x45 mm installation devices, for rooms with wet-maintenance floor covers.

For assembly instructions, see the chapter assembly.



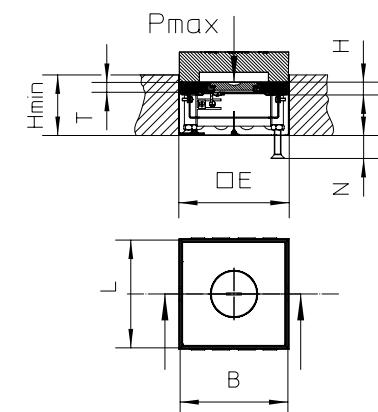
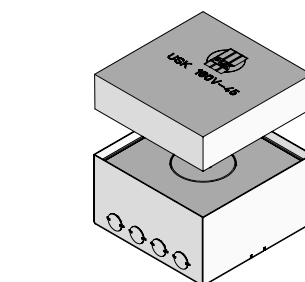
article number	H mm	H _{min} mm	N mm	B mm	L mm	P _{max} kN	IP _n	IP _g	G kg
E G									
UKE160 15-VP-WD	15	90	+35	160	160	20	IP 54	IP 22	4,04

accessories optional:

UEP160 UST Adapter board for sockets for compact single outlets (page C56)

UEP160 UST-TR Adapter board, data/multimedia (page C56)

UET tube for wet maintenance (page C36)



Installation units for screed and hollow floors

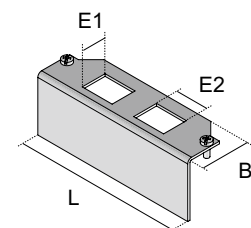
Compact single outlet | Accessories

UEP125 KS Adapter board for Keystone modules for compact single outlets

article number	B mm	L mm	E1 mm	E2 mm	G kg
S					
UEP125-KS 2	29	98	14,8	19,5	0,06

accessories optional:

UDAEUM data systems installation device (page D37)



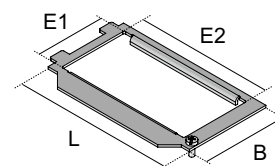
UEP125 UST Adapter board for sockets for compact single outlets

article number	B mm	L mm	E1 mm	E2 mm	G kg
S					
UEP125-UST 2	62	105	40,5	86	0,04

accessories optional:

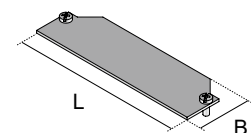
UST45 1 shockproof socket single (page D32)

UST45 2 shockproof socket, duplex (page D32)



UEP125 B Adapter board for sockets for compact single outlets, dummy

article number	B mm	L mm	G kg
S			
UEP125-B	29	98	0,03



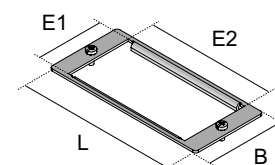
UEP160 UST Adapter board for sockets for compact single outlets

article number	B mm	L mm	E1 mm	E2 mm	G kg
S					
UEP160-UST 2	50	108	40,5	86	0,03

accessories optional:

UST45 1 shockproof socket single (page D32)

UST45 2 shockproof socket, duplex (page D32)



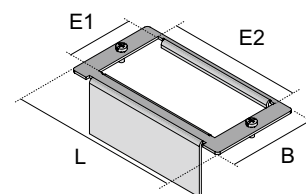
UEP160 UST-TR Adapter board, data/multimedia

article number	B mm	L mm	E1 mm	E2 mm	G kg
S					
UEP160-UST 2-TR	56	108	40,5	86	0,07

accessories optional:

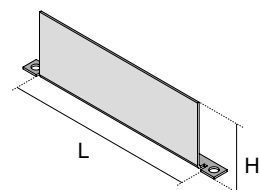
UDAP45 KS Data cover, Keystone (page D39)

UDAE22 data systems installation device single (page D36)



UKE TR Device separator

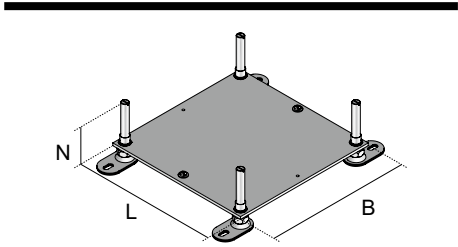
article number	H mm	L mm	G kg
S			
UKE125-TR	35	108	0,03
UKE160-TR	35	128	0,04



Installation units for screed and hollow floors
Compact single outlet | Accessories

UKENP Levelling board

article number	N mm	B mm	L mm	E mm	G kg
S					
UKENP 125S	25-70	125	125	188 x 238	1,31
UKENP 160S	25-70	160	160	224 x 274	1,75





Device installation cups and installation devices

Device installation cup and device carrier	D04-D12
Data-device carriers	D14-D19
Device carrier	D22-D23
Device insert	D26-D29
Power engineering	D32-D33
Data technology / multimedia	D36-D41
pin-and-socket connector systems	D42-D48
Accessories	D49-D50

Numeric index

Device installation cups and installation devices

B

BLS tapping screw [D49](#)
BSS Flat head tapping screw [D49](#)

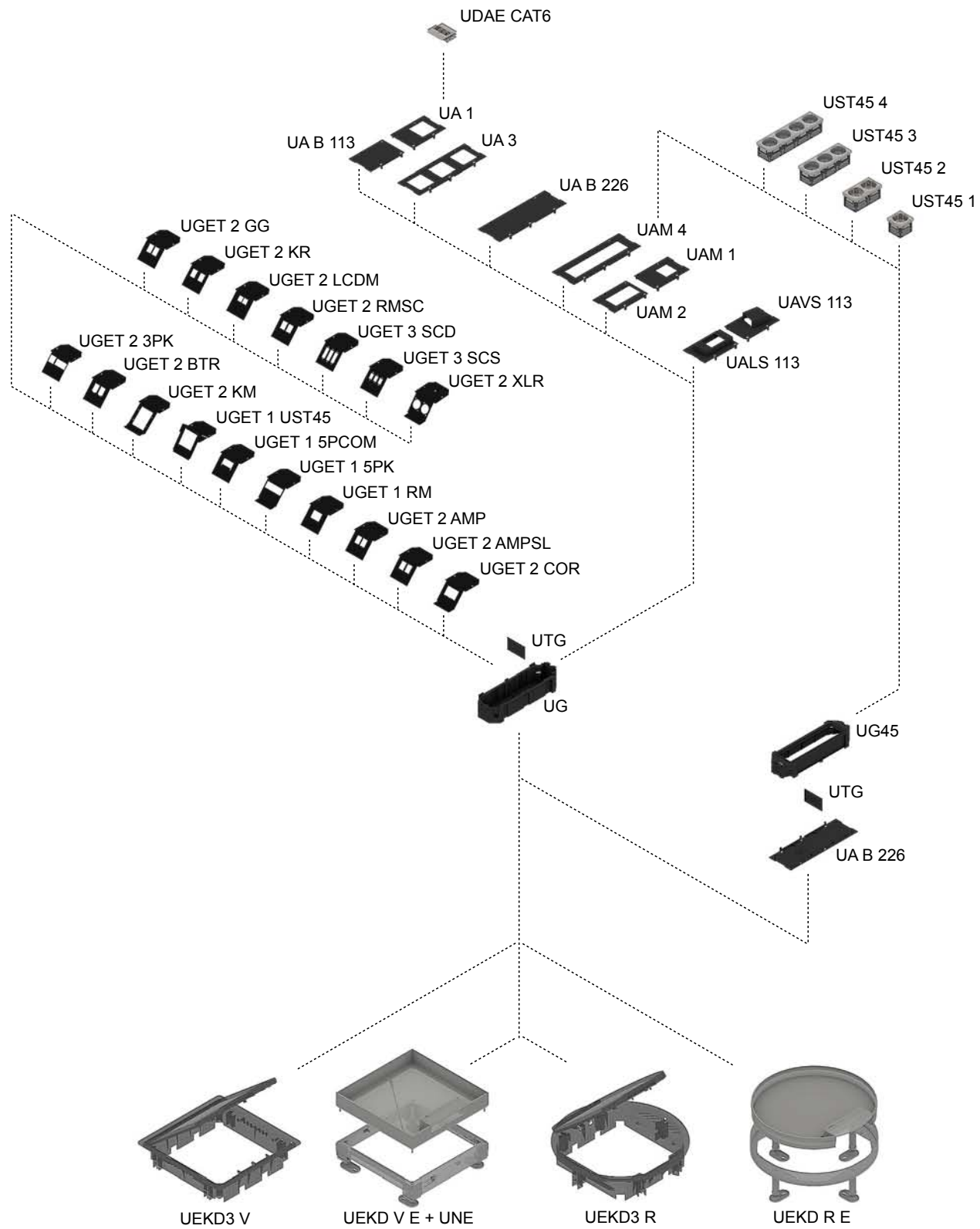
U

UA 1 Cover plate for 1xUDAE [D07](#)
UA 3 Cover plate for 3xUDAE [D06](#)
UA B 113 Cover plate, blind [D12](#)
UA B 226 Cover plate, blind [D12](#)
UAA B Covering, blind [D07](#)
UAA B 22 cover [D37](#)
UAA B 22 W cover [D37](#)
UAA B 65 cover [D23](#)
UALS 113 Cover plate for 2x automatic line protection [D07](#)
UAM 1 Cover plate for 1xUST45 [D07](#)
UAM 2 Cover plate for 2xUST45 [D07](#)
UAM 4 Cover plate for 4xUST45 [D07](#)
UANT45 TV/ radio/ SAT-single socket [D38](#)
UAPAM Cable outlet [D38](#)
UARM-2-1 Cover plate for 2x UDAE22 [D04](#)
UARM-3-1 Cover plate for 3x UDAE22 [D04](#)
UARM-3-KS1 cover plate [D04](#)
UAVS 113 Cover plate snap-in [D12](#)
UBE AMPSL TV Adapter board data technology [D05](#)
UBE BTR Adapter board data technology [D05](#)
UBE KS Adapter board data technology [D05](#)
UBS label strip [D49](#)
UDA22-KS Data cover, Keystone [D36](#)
UDA45-COR Data cover, Corning [D38](#)
UDA45-KR Data cover, KRONE [D39](#)
UDA45-RM Data cover, Reichle & De-Massari [D39](#)
UDA45-SYM Data cover, Systimax [D40](#)
UDAE data systems installation device [D40](#)
UDAE CAT5 data systems installation device [D40](#)
UDAE CAT6 data systems installation device [D41](#)
UDAE22 data systems installation device single [D36](#)
UDAE45 data systems installation device double, not screened [D38](#)
UDAEUM data systems installation device [D37](#)
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UDEP 5PCOM Adapter board module plug systems [D19](#)
UDEP 5PK Adapter board module plug systems [D19](#)
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UDEP AMP SL Adapter board data technology [D16](#)
UDEP B Adapter board blind [D14](#)
UDEP BTR Adapter board data technology [D16](#)
UDEP COR Adapter board data technology [D16](#)
UDEP DSUB Adapter board audio/video technology [D15](#)
UDEP GG45 Adapter board data technology [D16](#)
UDEP HAR Adapter board data technology [D16](#)
UDEP KEL Adapter board data technology [D17](#)
UDEP KM Adapter board audio/video technology [D15](#)
UDEP KR Adapter board data technology [D17](#)
UDEP LEX adapter board, data technology [D18](#)
UDEP RM Adapter board data technology [D17](#)
UDEP RMSC 2 Adapter board data technology [D17](#)
UDEP RMSC 3 Adapter board data technology [D17](#)
UDEP SCD Adapter board light wave technology [D15](#)
UDEP SCS Adapter board light wave technology [D15](#)
UDEP SYS 2 Adapter board data technology [D17](#)
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UDM22 RCA Media module 22,5 x 45 mm [D36](#)
UDM22 TV Media module 22,5 x 45 mm [D37](#)
UDM22 USB Media module 22,5 x 45 mm [D36](#)
UDM22 VGA Media module 22,5 x 45 mm [D36](#)
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UG R device installation cup, round [D04](#)
UG3 Device cup, quadrangular [D06](#)
UG45 Device cup, quadrangular, open [D12](#)
UG45WA-2 device mounting cup, WAGO [D42](#)
UG45WA-2-1 device mounting cup, WAGO [D42](#)
UG45WA-2-2 device mounting cup, WAGO [D43](#)
UG45WA-3 device mounting cup, WAGO [D42](#)
UG45WA-3-1 device mounting cup, WAGO [D43](#)
UG45WA-4 device mounting cup, WAGO [D42](#)
UG45WI-2 device mounting cup, Wieland [D45](#)
UG45WI-2-1 device mounting cup, Wieland [D45](#)
UG45WI-2-2 device mounting cup, Wieland [D46](#)
UG45WI-3 device mounting cup, Wieland [D45](#)
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UG45WI-4 device mounting cup, Wieland [D45](#)
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UGE RK Device insert, triple, for installation unit plastic round [D26](#)
UGE VE Device insert triple, for installation unit high-grade steel quadrangular [D27](#)
UGE VK Device insert, triple, for installation unit plastic quadrangular [D26](#)
UGE VRE End plate for high-grade steel units [D29](#)
UGE VRK End plate for plastic units [D29](#)
UGE3 60 device insert [D28](#)
UGEA D adaptor for data-device carriers for GB [D50](#)
UGEE 1 UST45 insert board, shockproof socket [D28](#)
UGEE 2 UST45 insert board, shockproof socket [D28](#)
UGEE3 2 Louver [D28](#)
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UGET 2 BTR Device cup assembly carrier data technology [D09](#)
UGET 2 COR Device cup assembly carrier data technology [D09](#)
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UGET 2 KM Device cup assembly carrier audio/video technology [D08](#)
UGET 2 KR Device cup assembly carrier data technology [D10](#)
UGET 2 LCDM Device cup assembly carrier fibre optic technology [D08](#)
UGET 2 RMSC Device cup assembly carrier data technology [D10](#)
UGET 2 XLR Device cup installation carrier audio technology [D09](#)
UGET 2-3PK Device cup assembly carrier plug-in systems [D11](#)
UGET 3 SCD Device cup assembly carrier fibre optic technology [D08](#)
UGET 3 SCS Device cup assembly carrier fibre optic technology [D08](#)
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UGET 3-3 device carrier, 3x UDAE [D22](#)
UGET B device carrier blind [D22](#)
UGET CEE Device carrier CEE socket [D22](#)
UGETD device carrier data, 3x UDEP [D14](#)
UGETD KM device carrier audio / video technology [D22](#)
UGETD UZ strain relief [D14](#)
UGWI-FILS10A device cup pre-mounted with FI/LS switch 10 A [D46](#)
UGWI-FILS16A device cup pre-mounted with FI/LS switch 16 A [D47](#)
UGWI-FILS6A device cup pre-mounted with FI/LS switch 6 A [D46](#)
UGZ strain relief [D49](#)
UGZ R strain relief [D49](#)
USA45 automatic circuit breaker [D38](#)
USSM overvoltage protection module Class III/ D/ type3 [D37](#)
USSM FM overvoltage protection module [D37](#)
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UST45 2 shockproof socket, duplex [D32](#)
UST45 3 shockproof socket triple [D32](#)
UST45 4 shockproof socket quadruple [D33](#)
UST45FR 1 Installation socket with earthing pin, single [D33](#)
UST45FR 2 Installation socket with earthing pin, double [D33](#)
UST45FR 3 Installation socket with earthing pin, tripple [D33](#)

UTAE Telecommunications socket [D40](#)
UTG device separation plate [D06](#)
UTG 75 device separation plate [D04](#)
UV distributor box, WAGO [D43](#)
UVABU connecting line plug - socket, WAGO [D43](#)
UVABUWI connecting line plug - socket, Wieland [D47](#)
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UVS ST snap-in-piece, plug, WAGO [D45](#)
UVST-3 plug component, WAGO [D44](#)
UVSTWI-3 Plug part, Wieland [D48](#)
UVSWI ST Snap-in-piece, plug, Wieland [D48](#)
UVWI distributor block, Wieland [D47](#)
UWZ UG mounting lever [D50](#)
UWZ Z underfloor tongs [D49](#)

System overview

Device installation cups and installation devices



Device installation cups and installation devices

Device installation cup and device carrier | Device mounting cup, round and cover plates

UG R device installation cup, round

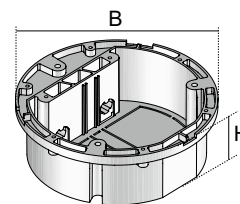
article number	H mm	B mm	colour	G kg
ABS				
UG-R	39	118	RAL 9011 (graphite black)	0,05

accessories included:

2 x **BLS 2.9x32** tapping screw (page D49)
2 x **UGZ-R** strain relief (page D49)

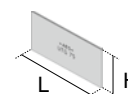
accessories optional:

UTG 75 device separation plate (page D04)



UTG 75 device separation plate

article number	H mm	L mm	colour	G kg
ABS				
UTG 75	36	75	RAL 9011 (graphite black)	0,01

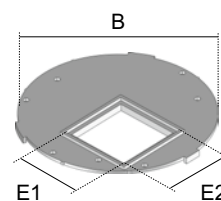


UARM-2-1 Cover plate for 2x UDAE22

article number	B mm	E1 mm	E2 mm	colour	G kg
ABS					
UARM-2-1 118	114	40,5	40,5	RAL 9011 (graphite black)	0,03

accessories optional:

UAA B 22 cover (page D37)
UAA B 22 W cover (page D37)
UST45 1 shockproof socket single (page D32)
UDAE22 data systems installation device single (page D36)

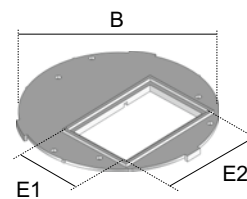


UARM-3-1 Cover plate for 3x UDAE22

article number	B mm	E1 mm	E2 mm	colour	G kg
ABS					
UARM-3-1 118	114	40,5	63	RAL 9011 (graphite black)	0,02

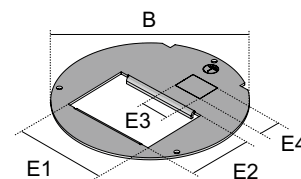
accessories optional:

UAA B 22 W cover (page D37)
UAA B 22 cover (page D37)
UST45 1 shockproof socket single (page D32)
UDAE22 data systems installation device single (page D36)



UARM-3-KS1 cover plate

article number	B mm	E1 mm	E2 mm	E3 mm	E4 mm	G kg
S						
UARM-3-KS1 118S	114	63	40,5	19,5	14,9	0,09



Device installation cups and installation devices

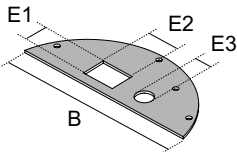
Device installation cup and device carrier | Device mounting cup, round and cover plates

UBE AMPSL TV

Adapter board data technology

To be used with cover plate UARM-2-1.

article number	B mm	E1 mm	E2 mm	E3 mm	G kg
ABS					
UBE-AMPSL-TV	114	20,25	14,78	10,5	0,04

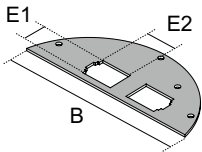


UBE BTR

Adapter board data technology

To be used with cover plate UARM-2-1.

article number	B mm	E1 mm	E2 mm	G kg
ABS				
UBE-BTR 2	114	15	19.5 / 21.7	0,04

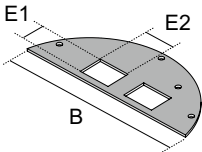


UBE KS

Adapter board data technology

To be used with cover plate UARM-2-1.

article number	B mm	E1 mm	E2 mm	G kg
ABS				
UBE-KS 2	114	14,9	19,5	0,04



Device installation cups and installation devices

Device installation cup and device carrier | Device installation cup UG and cover plates

UG

Device cup, quadrangular

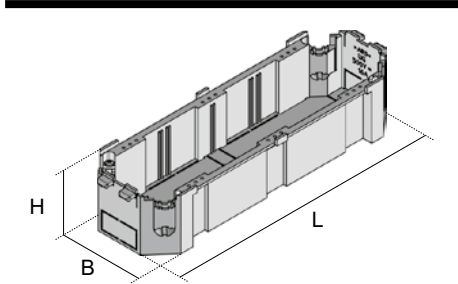
Please mind the technical information in chapter planning.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	G kg
ABS					
UG	46	74	225	RAL 9011 (graphite black)	0,09

accessories included:
4 x **UGZ** strain relief (page D49)
4 x **BLS 2.9x32** tapping screw (page D49)

accessories optional:

UTG	device separation plate	(page D06)
UA B 226	Cover plate, blind	(page D12)
UA B 113	Cover plate, blind	(page D12)
UA 3	Cover plate for 3xUDAE	(page D06)
UA 1	Cover plate for 1xUDAE	(page D07)
UAM 4	Cover plate for 4xUST45	(page D07)
UAM 2	Cover plate for 2xUST45	(page D07)
UAM 1	Cover plate for 1xUST45	(page D07)
UALS 113	Cover plate for 2x automatic line protection	(page D07)



UG3

Device cup, quadrangular

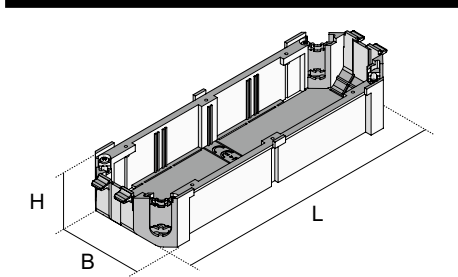
Please mind the technical information in chapter planning.

article number	H mm	B mm	L mm	colour	G kg
ABS					
UG3	38	74	225	RAL 9011 (graphite black)	0,09

accessories included:
4 x **UGZ** strain relief (page D49)
4 x **BLS 2.9x32** tapping screw (page D49)

accessories optional:

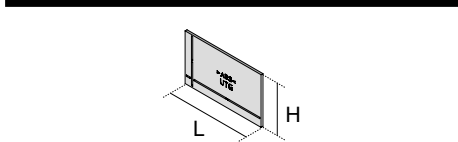
UTG	device separation plate	(page D06)
UA B 226	Cover plate, blind	(page D12)
UA B 113	Cover plate, blind	(page D12)
UA 3	Cover plate for 3xUDAE	(page D06)
UA 1	Cover plate for 1xUDAE	(page D07)
UAM 4	Cover plate for 4xUST45	(page D07)
UAM 2	Cover plate for 2xUST45	(page D07)
UAM 1	Cover plate for 1xUST45	(page D07)



UTG

device separation plate

article number	H mm	L mm	colour	G kg
ABS				
UTG	36	59	RAL 9011 (graphite black)	0,01

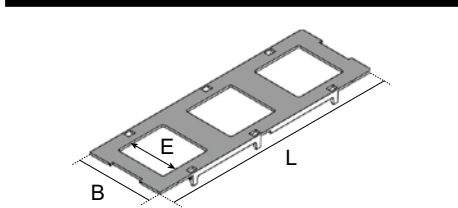


UA 3

Cover plate for 3xUDAE

article number	B mm	L mm	E mm	colour	G kg
ABS					
UA-3-1 226	74	226	48	RAL 9011 (graphite black)	0,03

accessories optional:
UAA B Covering, blind (page D07)



Device installation cups and installation devices

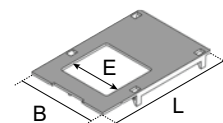
Device installation cup and device carrier | Device installation cup UG and cover plates

UA 1 Cover plate for 1xUDAE

article number	B mm	L mm	E mm	colour	G kg
ABS					
UA-1-1 113	74	113	48	RAL 9011 (graphite black)	0,02

accessories optional:

UAA B Covering, blind (page D07)

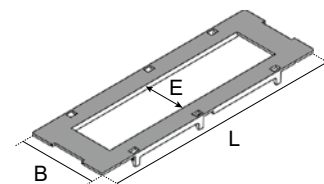


UAM 4 Cover plate for 4xUST45

article number	B mm	L mm	E mm	colour	G kg
ABS					
UAM-4-1 226	74	226	41	RAL 9011 (graphite black)	0,03

accessories optional:

UAA B Covering, blind (page D07)

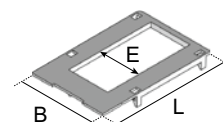


UAM 2 Cover plate for 2xUST45

article number	B mm	L mm	E mm	colour	G kg
ABS					
UAM-2-1 113	74	113	41	RAL 9011 (graphite black)	0,02

accessories optional:

UAA B Covering, blind (page D07)

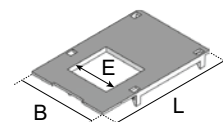


UAM 1 Cover plate for 1xUST45

article number	B mm	L mm	E mm	colour	G kg
ABS					
UAM-1-1 113	74	113	41	RAL 9011 (graphite black)	0,02

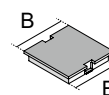
accessories optional:

UAA B Covering, blind (page D07)



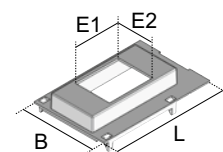
UAA B Covering, blind

article number	B mm	E1 mm	colour	G kg
ABS				
UAA-B 50	52,5	48,0	RAL 9011 (graphite black)	0,01
UAA-B 45	45,0	40,5	RAL 9011 (graphite black)	0,01



UALS 113 Cover plate for 2x automatic line protection

article number	B mm	L mm	E mm	colour	G kg
ABS					
UALS-2-1 113	74	113	45.5x36	RAL 9011 (graphite black)	0,02



Device installation cups and installation devices

Device installation cup and device carrier | Device installation cup UG and cover plates

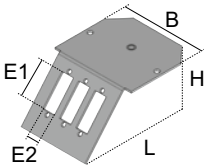
UGET 3 SCD

Device cup assembly carrier fibre optic technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-3-SCD 113	42	69	95	26,4	9,8	Black (similar to RAL 9011)	3	0,07

accessories optional:
UG Device cup, quadrangular (page D06)



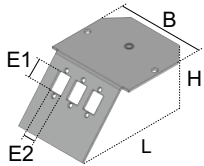
UGET 3 SCS

Device cup assembly carrier fibre optic technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-3-SCS 113	42	69	95	13,5	9,6	Black (similar to RAL 9011)	3	0,08

accessories optional:
UG Device cup, quadrangular (page D06)



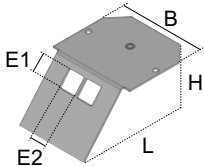
UGET 2 LCDM

Device cup assembly carrier fibre optic technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-LCDM 113	42	69	95	13,3	13,3	Black (similar to RAL 9011)	2	0,08

accessories optional:
UG Device cup, quadrangular (page D06)



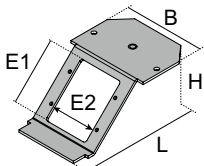
UGET 2 KM

Device cup assembly carrier audio/video technology

Kindermann
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-KM 113	42	69	107	48	38	Black (similar to RAL 9011)	1	0,09

accessories optional:
UG Device cup, quadrangular (page D06)



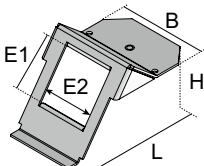
UGET 1 UST45

Device cup assembly carrier installation devices

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-1-UST45 113	42	69	99	40,5	40,5	Black (similar to RAL 9011)	1	0,09

accessories optional:
UG Device cup, quadrangular (page D06)



Device installation cups and installation devices

Device installation cup and device carrier | Device installation cup UG and cover plates

UGET 2 XLR Device cup installation carrier audio technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	colour	data jacks	G kg
S							
UGET-2-XLR 113	42	69	95	23,6	Black (similar to RAL 9011)	2	0,10

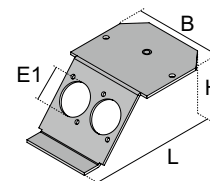
accessories included:

2 x **BLS 2.9x13** tapping screw (page D49)

2 x **BLS 4.8x9.5** tapping screw (page D49)

accessories optional:

UG Device cup, quadrangular (page D06)



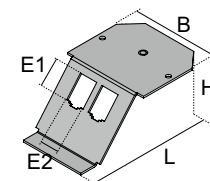
UGET 2 BTR Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-BTR 113	42	69	95	19.35/ 21.55	14,85	Black (similar to RAL 9011)	2	0,08

accessories optional:

UG Device cup, quadrangular (page D06)



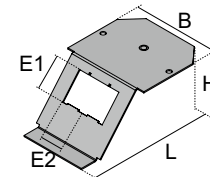
UGET 2 COR Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-COR 113	42	69	95	22,8	18	Black (similar to RAL 9011)	2	0,08

accessories optional:

UG Device cup, quadrangular (page D06)



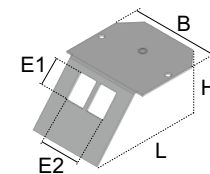
UGET 2 AMP Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-AMP 113	42	69	95	19,3	14,6	Black (similar to RAL 9011)	2	0,08

accessories optional:

UG Device cup, quadrangular (page D06)



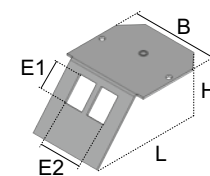
UGET 2 AMPSL Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-AMPSL 113	42	69	95	20,25	14,78	Black (similar to RAL 9011)	2	0,08

accessories optional:

UG Device cup, quadrangular (page D06)



Device installation cups and installation devices

Device installation cup and device carrier | Device installation cup UG and cover plates

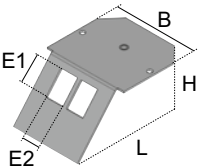
UGET 2 GG45

Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-GG45 113	42	69	95	20,1	14,7	Black (similar to RAL 9011)	2	0,08

accessories optional:
UG Device cup, quadrangular (page D06)



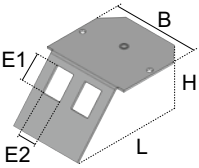
UGET 2 KR

Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-KR 113	42	69	95	19,4	14,8	Black (similar to RAL 9011)	2	0,08

accessories optional:
UG Device cup, quadrangular (page D06)



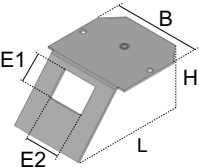
UGET 1 RM

Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-1-RM 113	42	69	95	20,10	27,60	Black (similar to RAL 9011)	1	0,08

accessories optional:
UG Device cup, quadrangular (page D06)



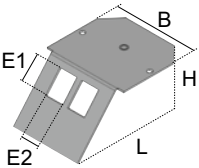
UGET 2 RMSC

Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S								
UGET-2-RMSC 113	42	69	95	19,50	14,90	Black (similar to RAL 9011)	2	0,08

accessories optional:
UG Device cup, quadrangular (page D06)



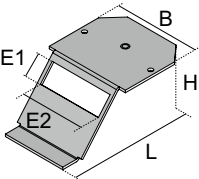
UGET 1-5PK

Device cup assembly carrier plug-in systems

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-1-5PK 113	42	69	95	16,6	52,5	Black (similar to RAL 9011)	0,10

accessories optional:
UG Device cup, quadrangular (page D06)



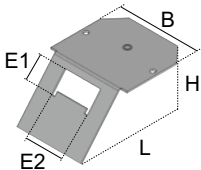
UGET 1-5PCOM

Device cup assembly carrier plug-in systems

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-1-5PCOM 113	42	69	95	18,5	31,8	Black (similar to RAL 9011)	0,08

accessories optional:
UG Device cup, quadrangular (page D06)



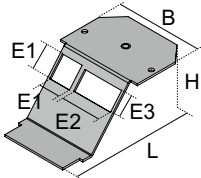
UGET 2-3PK

Device cup assembly carrier plug-in systems

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	E1 mm	E2 mm	E3 mm	colour	G kg
S								
UGET-2-3PK 113	42	69	95	17,8	33	15,6	Black (similar to RAL 9011)	0,07

accessories optional:
UG Device cup, quadrangular (page D06)



Device installation cups and installation devices

Device installation cup and device carrier | Device installation cup UG45 and cover plates

UG45

Device cup, quadrangular, open

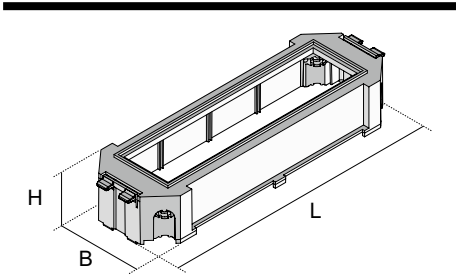
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	colour	G kg
ABS						
UG45-4	40	81	74	225	RAL 9011 (graphite black)	0,08

accessories included:
4 x **UGZ** strain relief (page D49)

accessories optional:

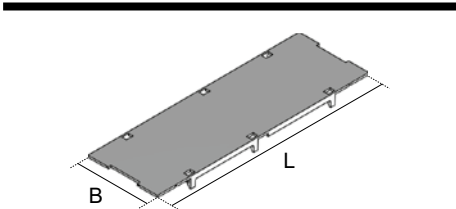
UTG	device separation plate	(page D06)
UAVS 113	Cover plate snap-in	(page D12)
UA B 113	Cover plate, blind	(page D12)
UA B 226	Cover plate, blind	(page D12)
UAA B	Covering, blind	(page D07)



UA B 226

Cover plate, blind

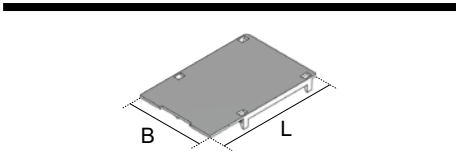
article number	B mm	L mm	colour	G kg
ABS				
UA-B 226	74	226	RAL 9011 (graphite black)	0,03



UA B 113

Cover plate, blind

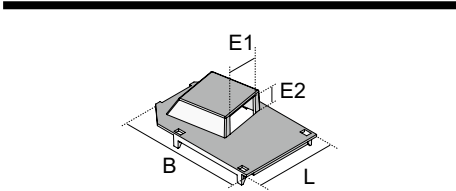
article number	B mm	L mm	colour	G kg
ABS				
UA-B 113	74	113	RAL 9011 (graphite black)	0,02



UAVS 113

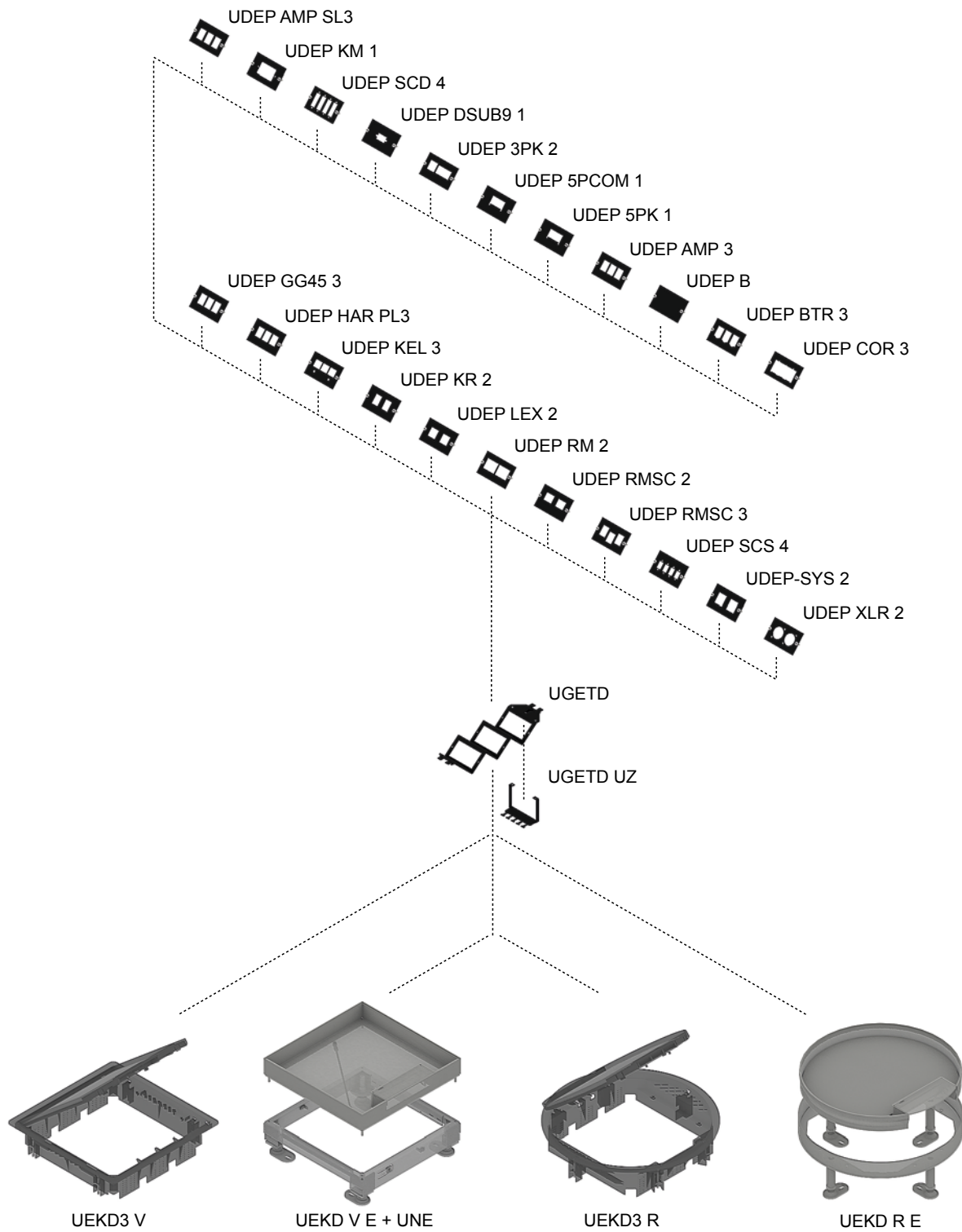
Cover plate snap-in

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
ABS							
UAVS-1-1 113	18	74	113	33	16	RAL 9011 (graphite black)	0,03



System overview

Device installation cups and installation devices



Device installation cups and installation devices

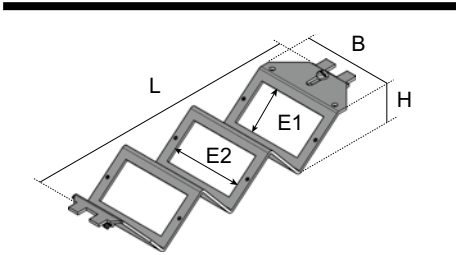
Data-device carriers

UGETD device carrier data, 3x UDEP

For assembly instructions, see the chapter assembly.

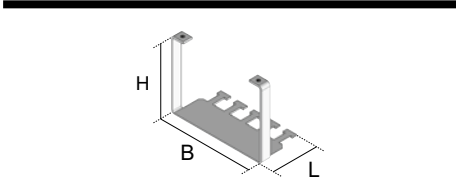
article number	H mm	H _{min} mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S								
UGETD-3 226	33	74	75	227	33,5	59,5	Black (similar to RAL 9011)	0,16

accessories optional:
UGETD UZ strain relief (page D14)



UGETD UZ strain relief

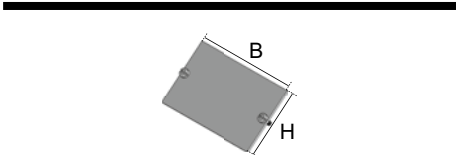
article number	H mm	B mm	L mm	colour	G kg
S					
UGETD-UZ	54	72	34	Black (similar to RAL 9011)	0,07



UDEP B Adapter board blind

article number	H mm	B mm	G kg
AL			
UDEP-B	46	75	0,03

accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



Device installation cups and installation devices

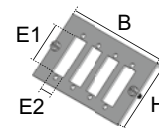
Data-device carriers | Adapter board, light wave technology, audio/video technology

UDEP SCD Adapter board light wave technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-SCD 4	46	75	26,4	9,8	4	0,03

accessories optional:

UGETD device carrier data, 3x UDEP (page D14)

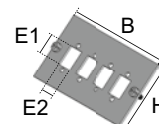


UDEP SCS Adapter board light wave technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-SCS 4	46	75	13,5	9,6	4	0,03

accessories optional:

UGETD device carrier data, 3x UDEP (page D14)



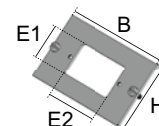
UDEP KM Adapter board audio/video technology

Kindermann

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-KM 1	46	75	23	38	1	0,03

accessories optional:

UGETD device carrier data, 3x UDEP (page D14)

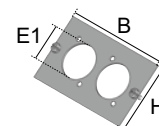


UDEP XLR Adapter board audio technology

article number	H mm	B mm	E1 mm	G kg
AL				
UDEP-XLR 2	46	75	23,6	0,03

accessories optional:

UGETD device carrier data, 3x UDEP (page D14)

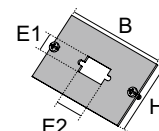


UDEP DSUB Adapter board audio/video technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-DSUB 9 1	45,5	75	11,40	20,50	1	0,04

accessories optional:

UGETD device carrier data, 3x UDEP (page D14)

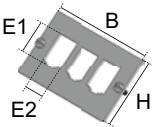


D

UDEP BTR Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-BTR 3	46	75	19.35/ 21.55	14,85	3	0,03

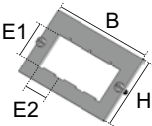
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP COR Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-COR 3	46	75	22,8	18	3	0,03

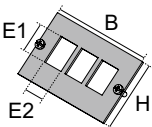
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP HAR Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-HAR PL3	45,5	75	19,1	14,7	3	0,03

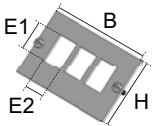
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP AMP Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-AMP 3	46	75	19,3	14,6	3	0,03

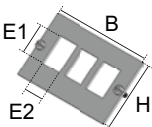
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP AMP SL Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-AMP SL3	46	75	20,25	14,78	3	0,03

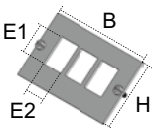
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP GG45 Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-GG45 3	46	75	20,1	14,7	3	0,03

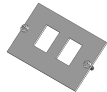
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP KR Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-KR 2	46	75	19,4	14,8	2	0,03

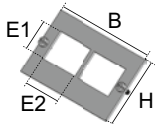
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP RM Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-RM 2	46	75	20,1	27,6	2	0,03

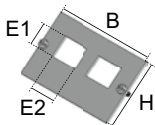
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP RMSC 2 Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-RMSC 2	46	75	14,9	19,5	2	0,03

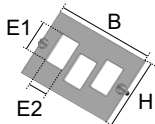
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP RMSC 3 Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-RMSC 3	46	75	19,5	14,9	3	0,03

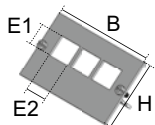
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP KEL Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-KEL 3	46	75	14,2	16,2	3	0,03

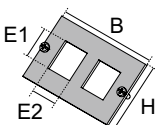
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP SYS 2 Adapter board data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-SYS 2	45,5	75	20,8	19,7	2	0,04

accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



D

Device installation cups and installation devices

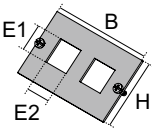
Data-device carriers | Adapter board, data technology

UDEP LEX adapter board, data technology

article number	H mm	B mm	E1 mm	E2 mm	data jacks	G kg
AL						
UDEP-LEX 2	45,5	75	17,3	18,2	2	0,04

accessories optional:

UGETD device carrier data, 3x UDEP (page D14)

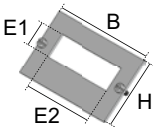


Device installation cups and installation devices
Data-device carriers | Adapter board, connector systems

UDEP 5PK Adapter board module plug systems

article number	H mm	B mm	E1 mm	E2 mm	G kg
AL					
UDEP-5PK 1	46	75	16,6	52,5	0,03

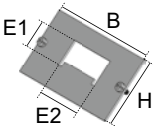
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)



UDEP 5PCOM Adapter board module plug systems

article number	H mm	B mm	E1 mm	E2 mm	G kg
AL					
UDEP-5PCOM 1	46	75	18,5	31,8	0,03

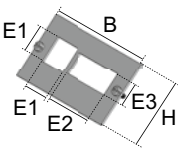
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)

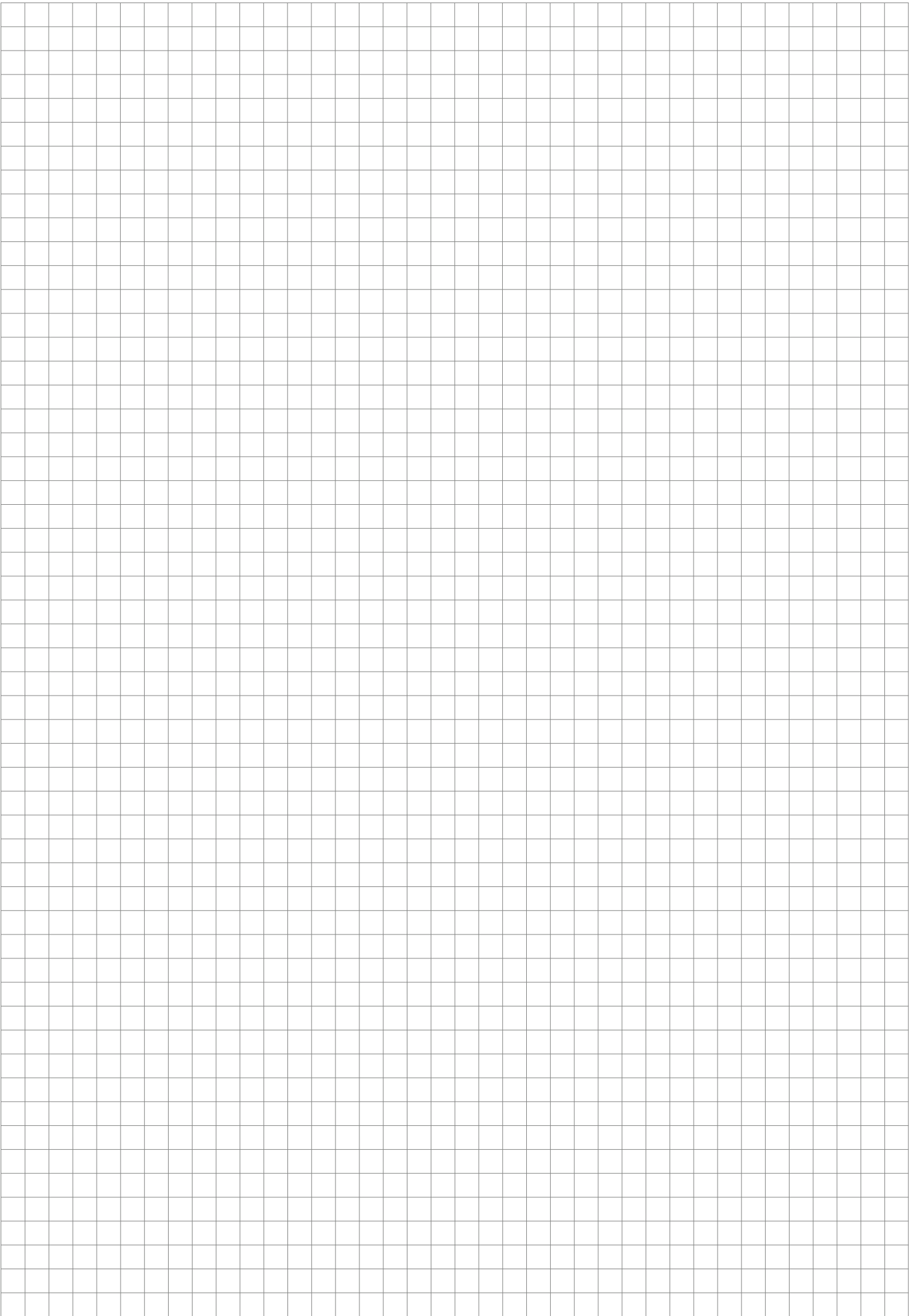


UDEP 3PK Adapter board module plug systems

article number	H mm	B mm	E1 mm	E2 mm	E3 mm	G kg
AL						
UDEP-3PK 2	46	75	17,8	33	15,6	0,03

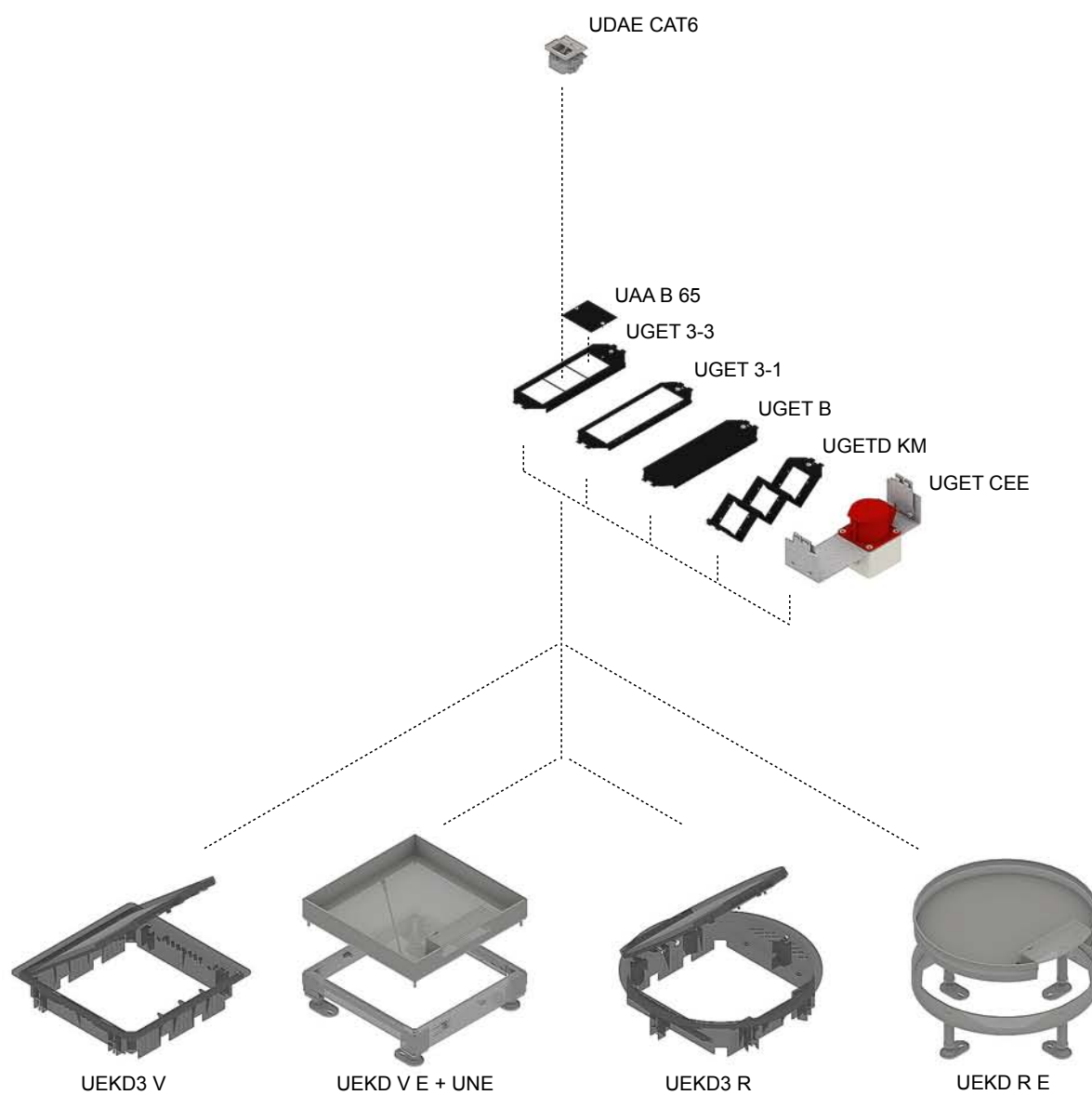
accessories optional:
UGETD device carrier data, 3x UDEP (page D14)





System overview

Device installation cups and installation devices



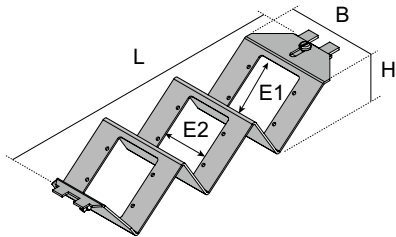
Device installation cups and installation devices

Device carrier

UGETD KM device carrier audio / video technology

Kindermann
For assembly instructions, see the chapter assembly.

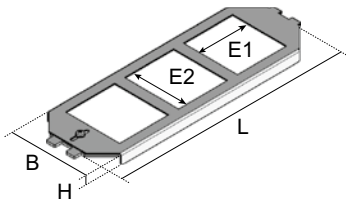
article number	H mm	H _{min} mm	B mm	L mm	E1 mm	E2 mm	colour	data jacks	G kg
S									
UGETD-6-KM 226	40	83	75	227	48	38	Black (similar to RAL 9011)	3	0,21



UGET 3-3 device carrier, 3x UDAE

article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
AL							
UGET-3-3 226	10	75	220	50	50	Black (similar to RAL 9011)	0,12

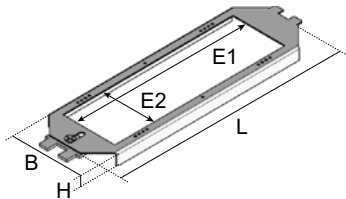
accessories optional:
UAA B 65 cover (page D23)



UGET 3-1 device carrier, 3x AMP/ACO

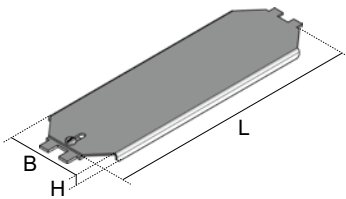
article number	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
AL							
UGET-3-1 226	7	71,5	226	177	50,5	Black (similar to RAL 9011)	0,10

accessories optional:
UAA B 65 cover (page D23)



UGET B device carrier blind

article number	H mm	B mm	L mm	colour	G kg
AL					
UGET-B 226	7	71,5	226	Black (similar to RAL 9011)	0,17

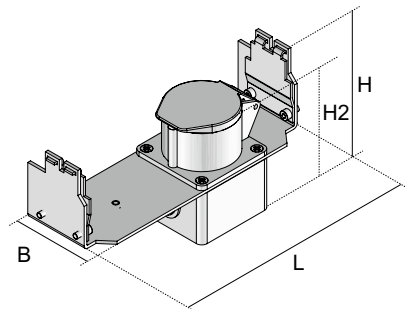


UGET CEE Device carrier CEE socket

suitable for centered installation at appropriate registering leads
For assembly instructions, see the chapter assembly.

article number	H mm	H2 mm	H _{min} mm	B mm	L mm	Design	G kg
S							
UGET-CEE16 226	122	115	185	75	236	16A (3 pole + N + PE)	0,90
UGET-CEE32 226	122	120	210	75	236	32A (3 pole + N + PE)	0,96

accessories optional:
UGEARL registering extension, triple (page C13)

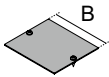


Device installation cups and installation devices

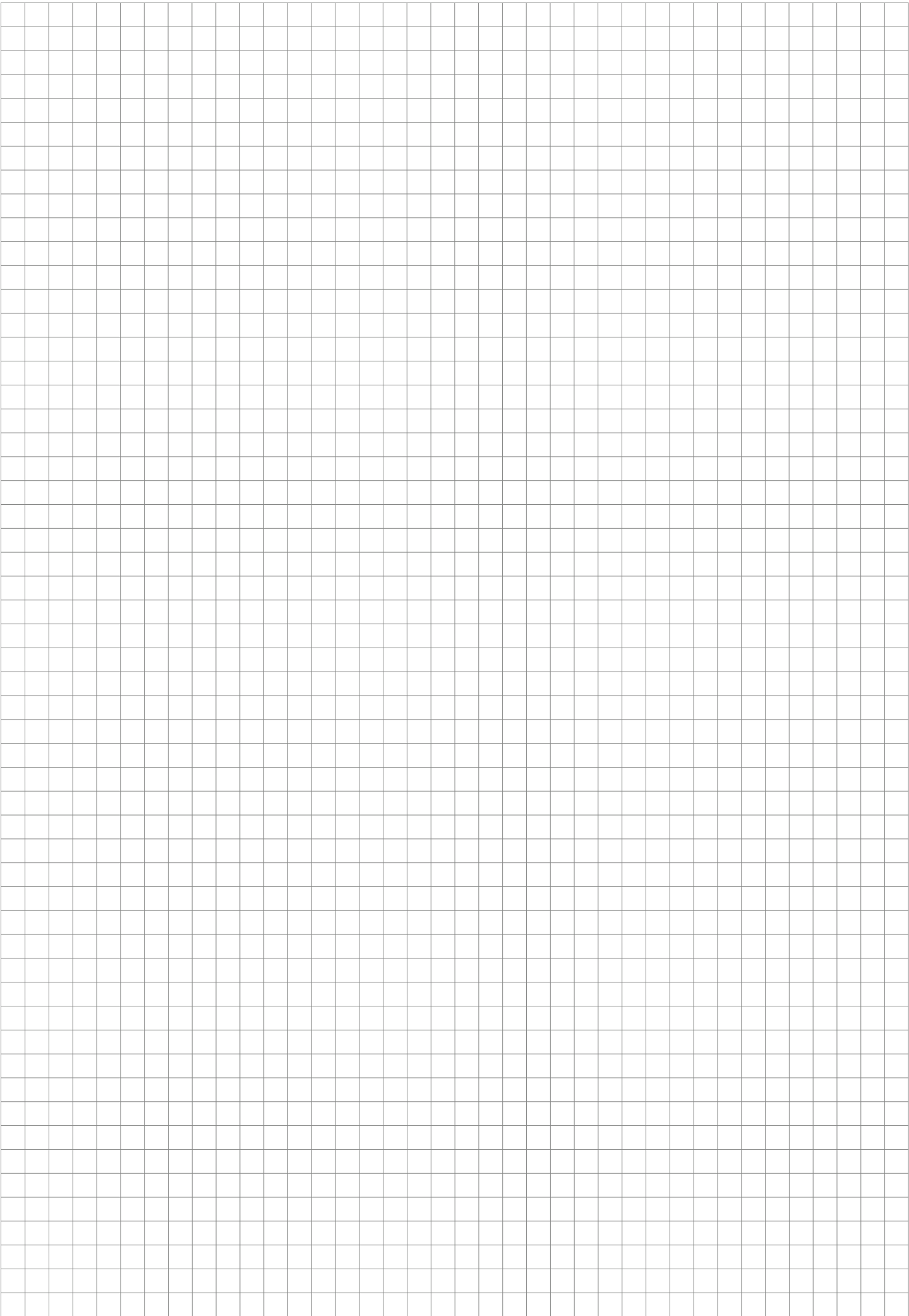
Device carrier

UAA B 65 cover

article number	B mm	colour	G kg
S			
UAA-B 65S	65	Black (similar to RAL 9011)	0,03

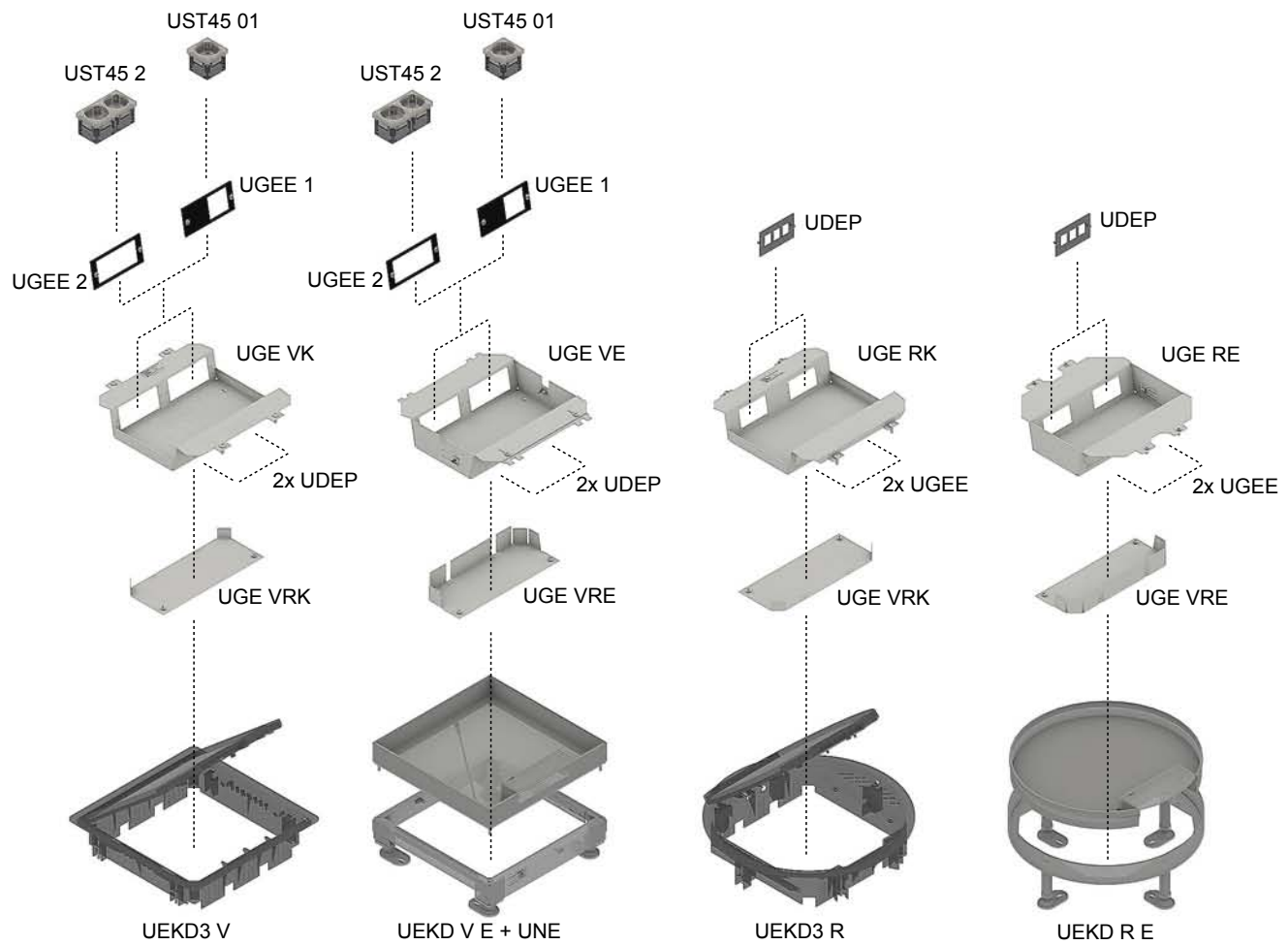


D



System overview

Device installation cups and installation devices



Device installation cups and installation devices

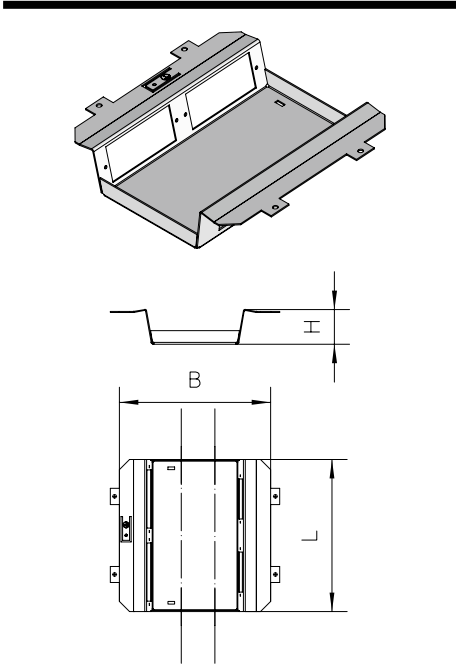
Device insert

UGE VK Device insert, triple, for installation unit plastic quadrangular

Device insert made of sheet steel for the insertion into a quadrangular installation unit made of plastic to accommodate up to 4 installation devices of 45x45mm and 6 data single jacks.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	data jacks	G kg
S						
UGE3-VK 8	51,7	65	252	226	6	0,76

accessories optional:
UGEE 1 UST45 insert board, shockproof socket (page D28)
UGEE 2 UST45 insert board, shockproof socket (page D28)

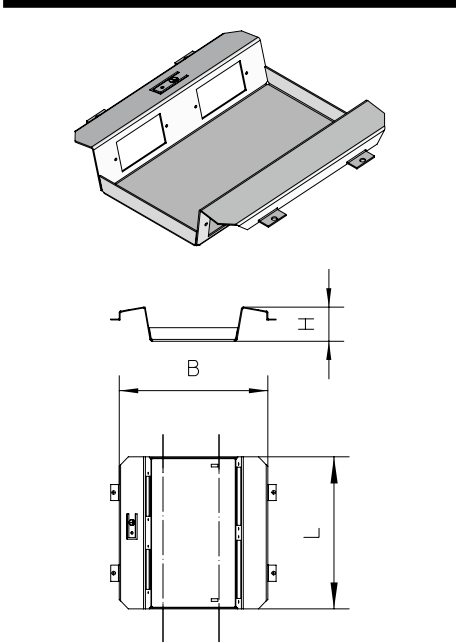


UGE RK Device insert, triple, for installation unit plastic round

Device insert made of sheet steel for the insertion into a round installation unit made of plastic to accommodate up to 4 installation devices of 45x45mm and 6 data single jacks.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	data jacks	G kg
S						
UGE3-RK 8	51	65	225	228	6	0,71

accessories optional:
UGEE 1 UST45 insert board, shockproof socket (page D28)
UGEE 2 UST45 insert board, shockproof socket (page D28)



Device installation cups and installation devices

Device insert

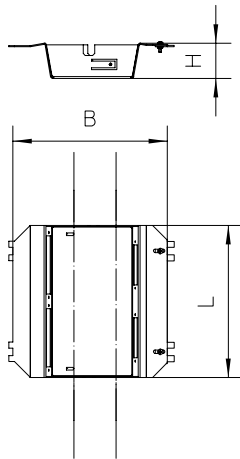
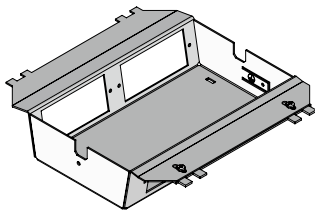
UGE VE Device insert triple, for installation unit high-grade steel quadrangular

Device insert made of sheet steel for the insertion into a quadrangular installation unit made of stainless steel to accommodate up to 4 installation devices of 45x45mm and 6 data single jacks.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	data jacks	G kg
S						
UGE3-VE 8	52,3	85	227	226	6	0,89

accessories optional:

- UGEE 1 UST45** insert board, shockproof socket (page D28)
- UGEE 2 UST45** insert board, shockproof socket (page D28)



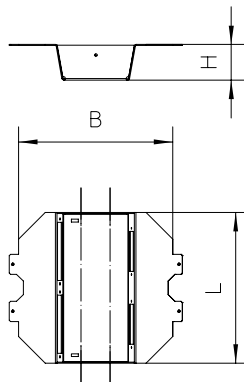
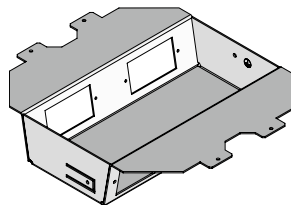
UGE RE Device insert triple, for installation unit high-grade steel round

Device insert made of sheet steel for the insertion into a round installation unit made of stainless steel to accommodate up to 4 installation devices of 45x45mm and 6 data single jacks.
For assembly instructions, see the chapter assembly.

article number	H mm	H _{min} mm	B mm	L mm	data jacks	G kg
S						
UGE3-RE 8	53	90	227	226	6	0,81

accessories optional:

- UGEE 1 UST45** insert board, shockproof socket (page D28)
- UGEE 2 UST45** insert board, shockproof socket (page D28)



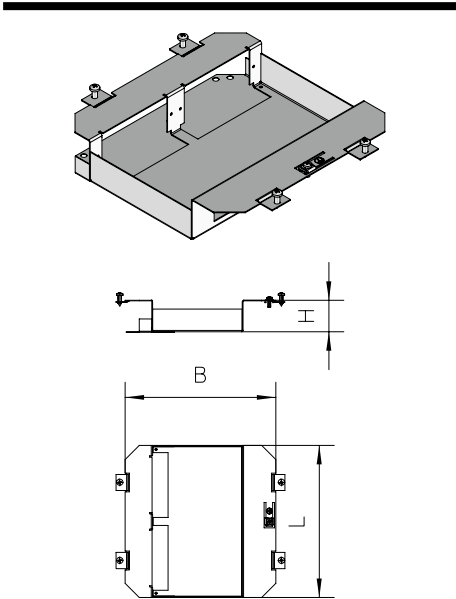
Device installation cups and installation devices

Device insert

UGE3 60 device insert

article number	H mm	H _{min} mm	B mm	L mm	data jacks	G kg
S						
UGE3-60K 4	47	60	252	226	6	0,60

accessories optional:
UGEE3 2 Louver (page D28)

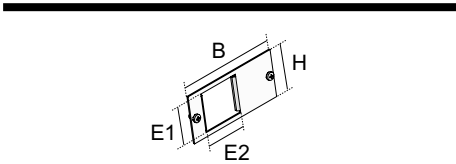


UGEE 1 UST45 insert board, shockproof socket

For 0° socket.

article number	H mm	B mm	E1 mm	E2 mm	colour	G kg
S						
UGEE-1-UST45	50	108	41,0	41,0	Black (similar to RAL 9011)	0,05

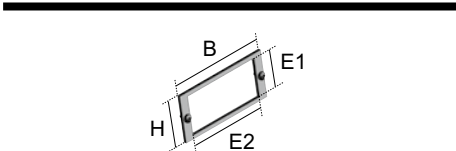
accessories optional:
UST45 1 shockproof socket single (page D32)



UGEE 2 UST45 insert board, shockproof socket

article number	H mm	B mm	E1 mm	E2 mm	colour	G kg
S						
UGEE-2-UST45	50	108	41,0	86,5	Black (similar to RAL 9011)	< 0,01

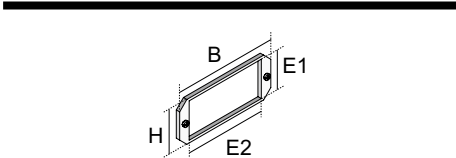
accessories optional:
UST45 1 shockproof socket single (page D32)
UST45 2 shockproof socket, duplex (page D32)



UGEE3 2 Louver

For the installation of two 45x45 mm installation devices.

article number	H mm	B mm	E1 mm	E2 mm	colour	G kg
S						
UGEE3-2-UST	47	108	41	86	Black (similar to RAL 9011)	0,05



Device installation cups and installation devices

Device insert

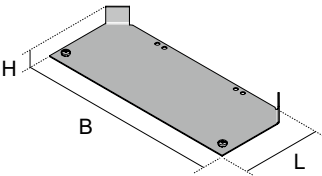
UGE VRK End plate for plastic units

Cover plate when using a device insert in a plastic installation unit in order to protect the high voltage current areas from touch.

article number	H mm	B mm	L mm	G kg
S				
UGE3-VRK-B	19,2	87	220	0,16

accessories optional:

- UGE RK** Device insert, triple, for installation unit plastic round (page D26)
- UGE VK** Device insert, triple, for installation unit plastic quadrangular (page D26)



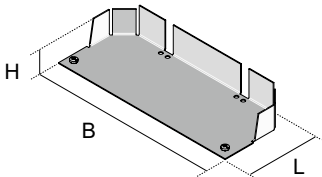
UGE VRE End plate for high-grade steel units

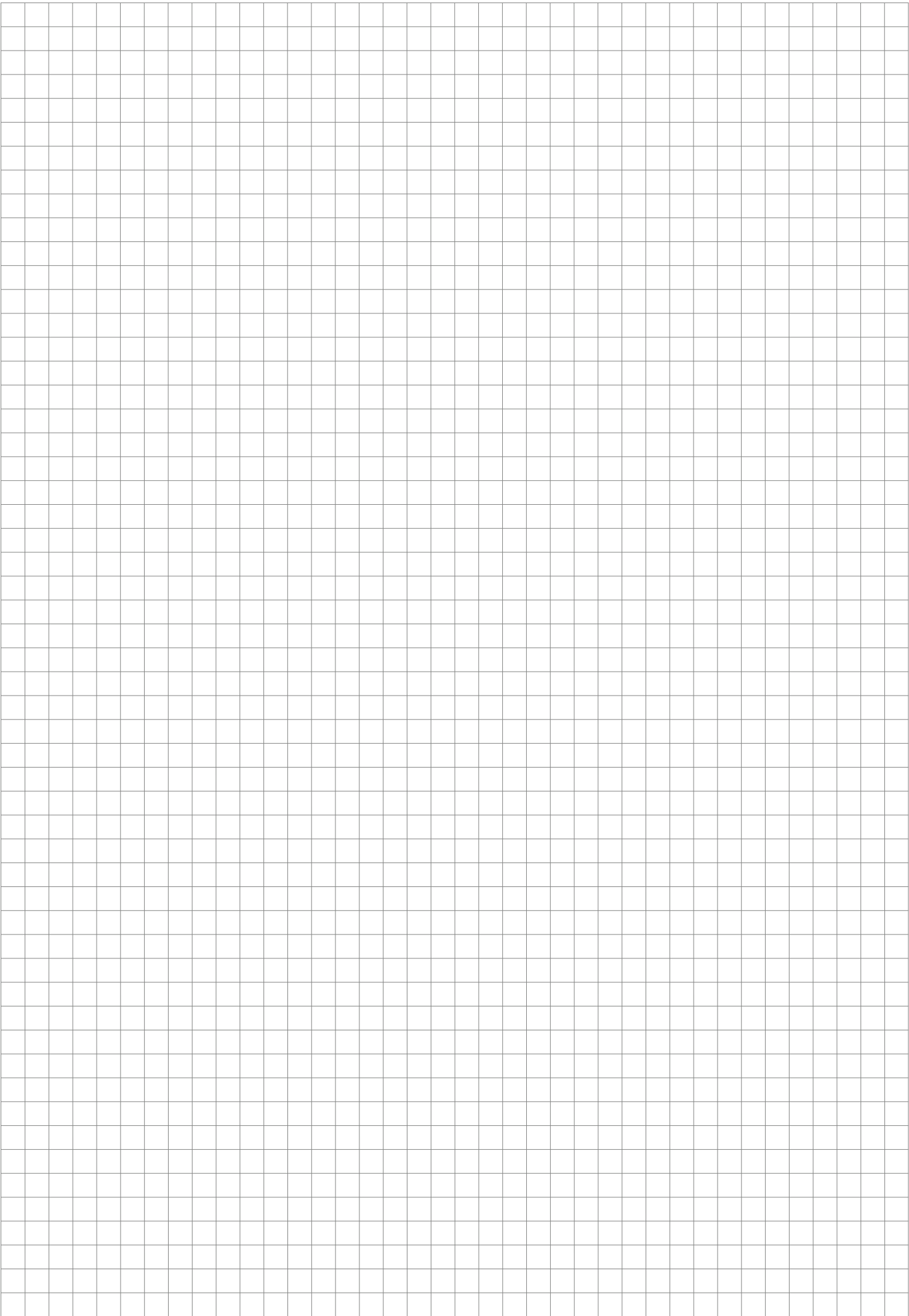
Cover plate when using a device insert in a stainless steel installation unit in order to protect the high voltage current areas from touch.

article number	H mm	B mm	L mm	G kg
S				
UGE3-VRE-B	34,5	86	219	0,21

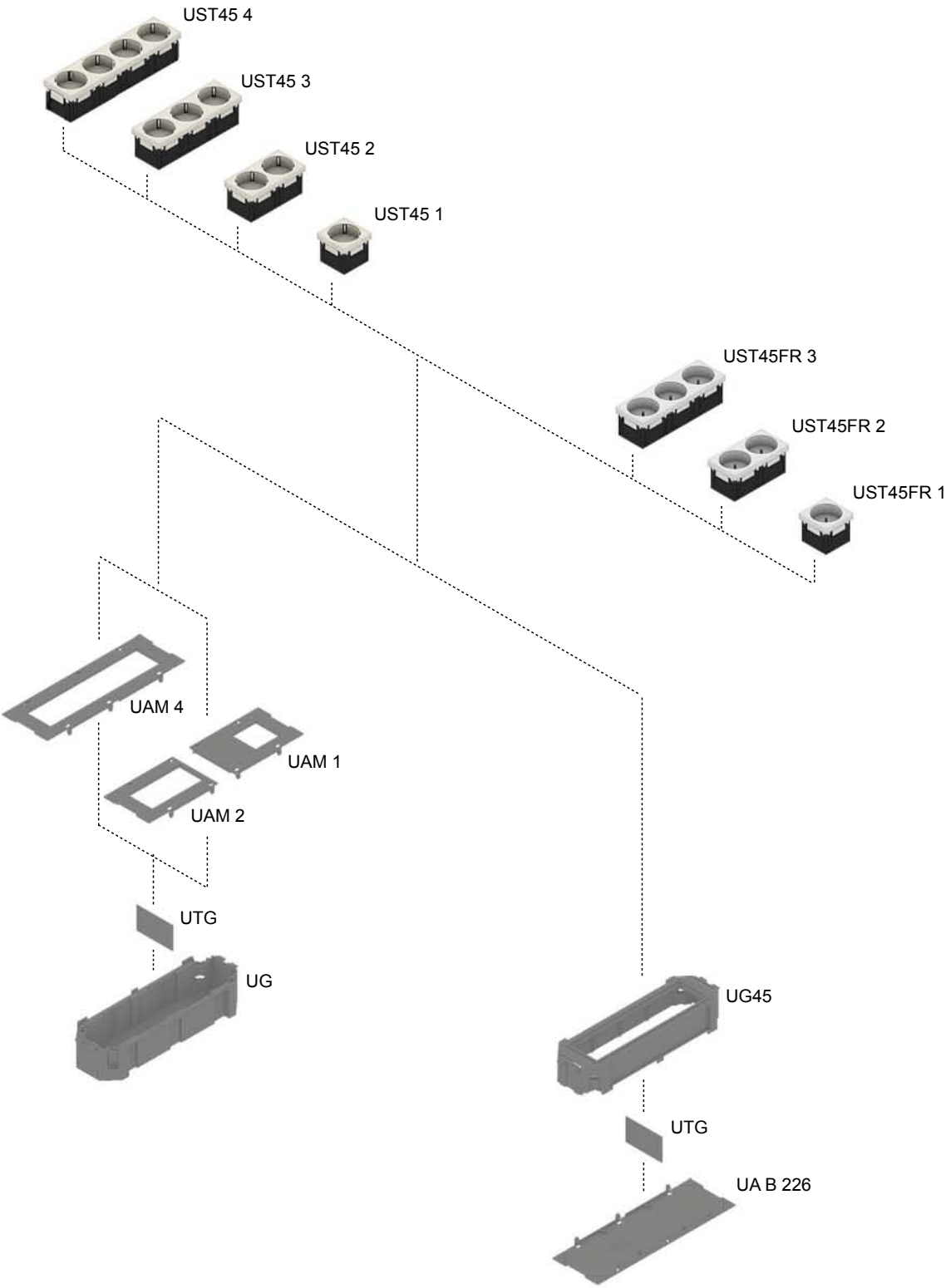
accessories optional:

- UGE RK** Device insert, triple, for installation unit plastic round (page D26)
- UGE VK** Device insert, triple, for installation unit plastic quadrangular (page D26)





System overview
Device installation cups and installation devices



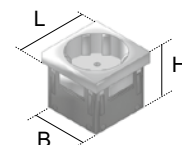
UST45 1 shockproof socket single

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	plug angle °	G kg
PC						
UST45-CW 1	42	40	45	cream white (similar to RAL 1013)	33	0,04
UST45-W 1	42	40	45	white (similar to RAL 9010)	33	0,04
UST45-R 1	42	40	45	red (similar to RAL 3003)	33	0,04
UST45-O 1	42	40	45	orange (similar to RAL 2004)	33	0,04
UST45-G 1	42	40	45	green (similar to RAL 6029)	33	0,04
UST45-CW 01	42	40	45	cream white (similar to RAL 1013)	0	0,04
UST45-W 01	42	40	45	white (similar to RAL 9010)	0	0,04
UST45-R 01	42	40	45	red (similar to RAL 3003)	0	0,04
UST45-O 01	42	40	45	orange (similar to RAL 2004)	0	0,04
UST45-G 01	42	40	45	green (similar to RAL 6029)	0	0,04

accessories optional:

UAM 1 Cover plate for 1xUST45 (page D07)



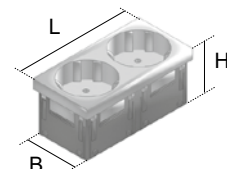
UST45 2 shockproof socket, duplex

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	plug angle °	G kg
PC						
UST45-CW 2	42	40	90	cream white (similar to RAL 1013)	33	0,07
UST45-W 2	42	40	90	white (similar to RAL 9010)	33	0,07
UST45-R 2	42	40	90	red (similar to RAL 3003)	33	0,07
UST45-O 2	42	40	90	orange (similar to RAL 2004)	33	0,07
UST45-G 2	42	40	90	green (similar to RAL 6029)	33	0,07

accessories optional:

UAM 2 Cover plate for 2xUST45 (page D07)



UST45 3 shockproof socket triple

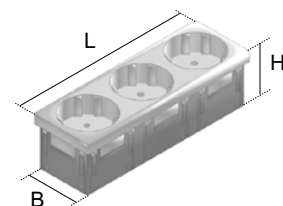
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	plug angle °	G kg
PC						
UST45-CW 3	42	40	135	cream white (similar to RAL 1013)	33	0,11
UST45-W 3	42	40	135	white (similar to RAL 9010)	33	0,11
UST45-R 3	42	40	135	red (similar to RAL 3003)	33	0,11
UST45-O 3	42	40	135	orange (similar to RAL 2004)	33	0,11
UST45-G 3	42	40	135	green (similar to RAL 6029)	33	0,11

accessories optional:

UAM 4 Cover plate for 4xUST45 (page D07)

UAA B Covering, blind (page D07)



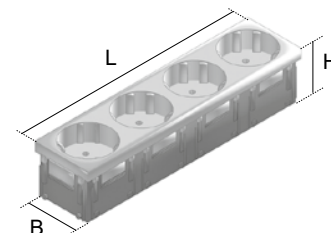
UST45 4 shockproof socket quadruple

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	plug angle °	G kg
PC						
UST45-W 4	40	40	180	white (similar to RAL 9003)	45	0,12
UST45-R 4	40	40	180	red (similar to RAL 3000)	45	0,12

accessories optional:

UAM 4 Cover plate for 4xUST45 (page D07)



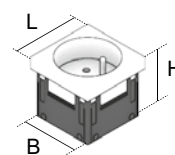
UST45FR 1 Installation socket with earthing pin, single

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	plug angle °	G kg
PC						
UST45FR-CW 1	42	40	45	cream white (similar to RAL 1013)	33	0,04
UST45FR-R 1	42	40	45	red (similar to RAL 3003)	33	0,04
UST45FR-W 1	42	40	45	white (similar to RAL 9010)	33	0,04

accessories optional:

UAM 1 Cover plate for 1xUST45 (page D07)



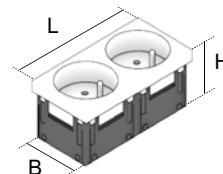
UST45FR 2 Installation socket with earthing pin, double

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	plug angle °	G kg
PC						
UST45FR-CW 2	42	40	90	cream white (similar to RAL 1013)	33	0,07
UST45FR-R 2	42	40	90	red (similar to RAL 3003)	33	0,07
UST45FR-W 2	42	40	90	white (similar to RAL 9010)	33	0,07

accessories optional:

UAM 2 Cover plate for 2xUST45 (page D07)



UST45FR 3 Installation socket with earthing pin, tripple

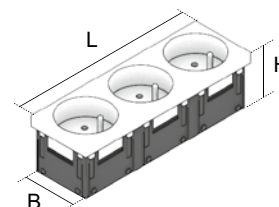
For assembly instructions, see the chapter assembly.

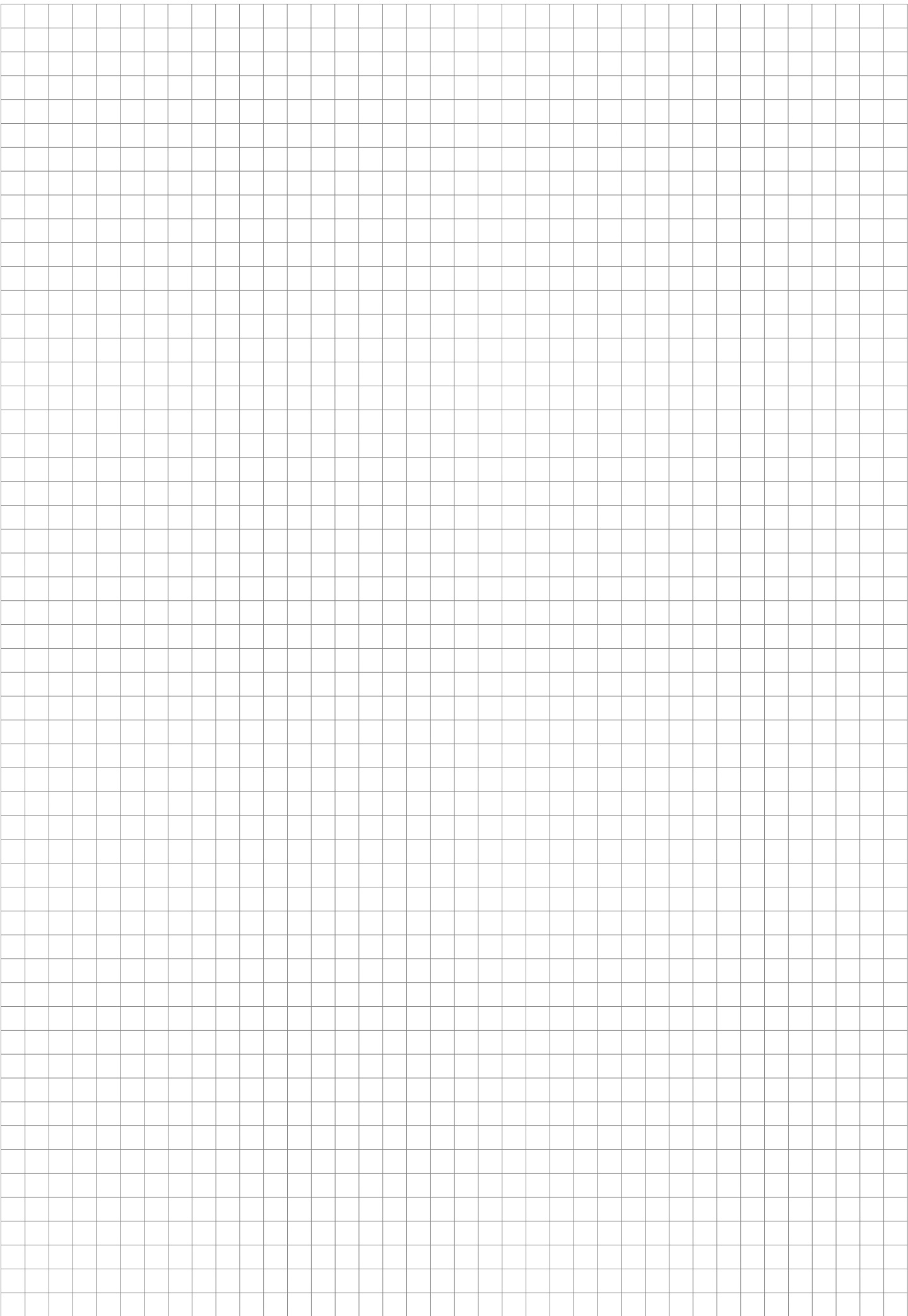
article number	H mm	B mm	L mm	colour	plug angle °	G kg
PC						
UST45FR-CW 3	42	40	135	cream white (similar to RAL 1013)	33	0,11
UST45FR-R 3	42	40	135	red (similar to RAL 3003)	33	0,11
UST45FR-W 3	42	40	135	white (similar to RAL 9010)	33	0,11

accessories optional:

UAM 4 Cover plate for 4xUST45 (page D07)

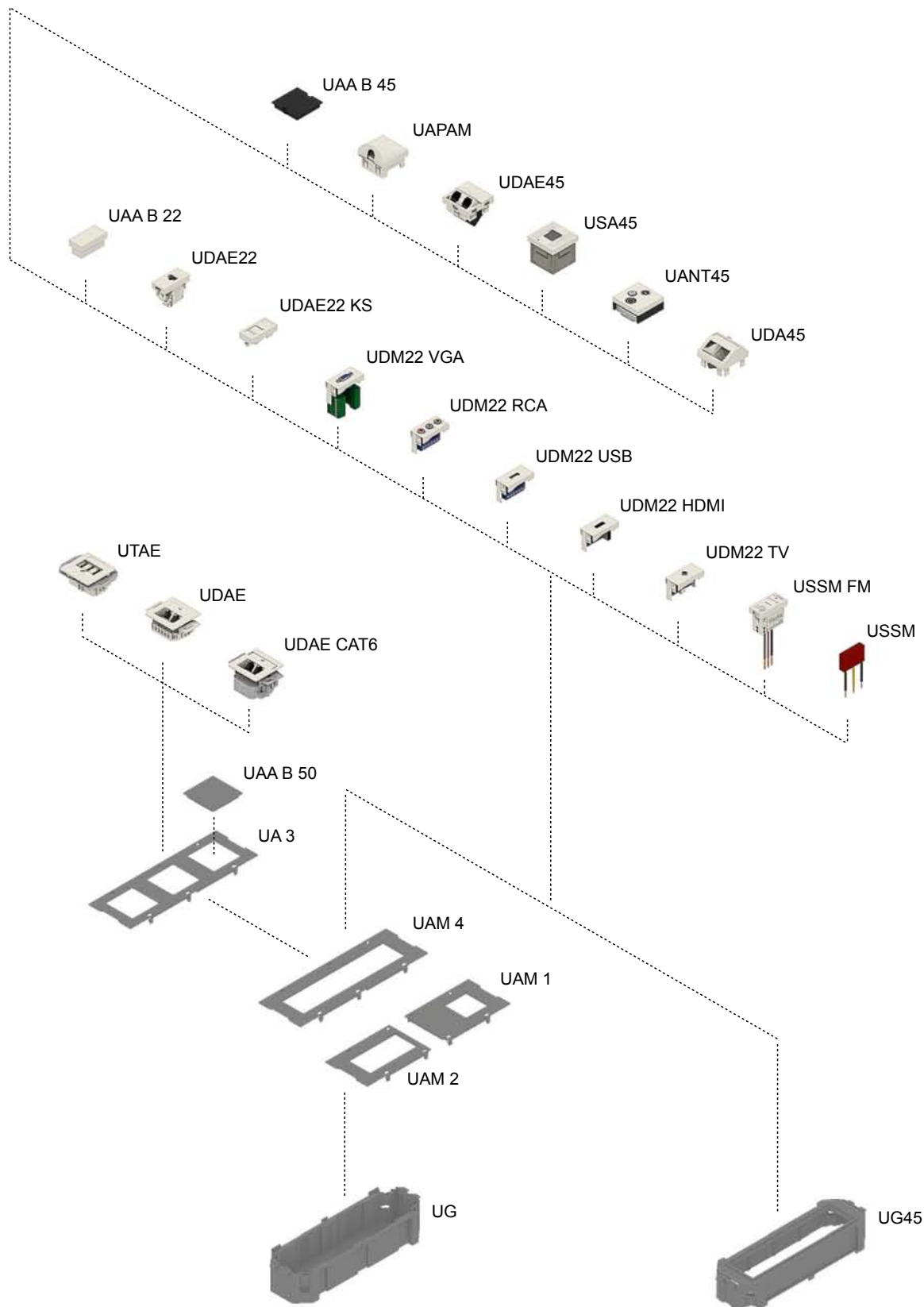
UAA B Covering, blind (page D07)





System overview

Device installation cups and installation devices



Device installation cups and installation devices

Data technology / multimedia

UDAE22 data systems installation device single

article number	B mm	L mm	colour	G kg
PC				
UDAE22-CAT6 8	45	22,5	white	0,04

accessories optional:

UAM 1	Cover plate for 1xUST45	(page D07)
UAA B 22 W	cover	(page D37)
UAA B 22	cover	(page D37)

UDA22-KS Data cover, Keystone

Data cover for 1 Keystone module with installation opening of 19,50 x 14,70 mm, made of plastic, white, latchable.

article number	B mm	L mm	E1 mm	E2 mm	colour	G kg
PC						
UDA22-KS 1	45	22,5	19,5	14,7	white	0,01

accessories optional:

UG45	Device cup, quadrangular, open	(page D12)
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UDM22 VGA Media module 22,5 x 45 mm

article number	B mm	L mm	Tiefe mm	colour	G kg
PC					
UDM22-VGA	45	22,5	47	white	0,01

UDM22 RCA Media module 22,5 x 45 mm

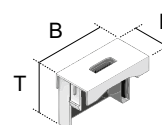
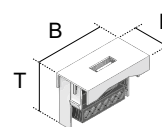
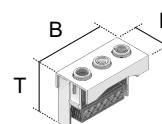
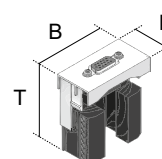
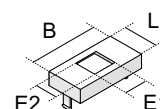
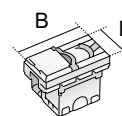
article number	B mm	L mm	Tiefe mm	colour	G kg
PC					
UDM22-RCA	45	22,5	33,5	white	0,01

UDM22 USB Media module 22,5 x 45 mm

article number	B mm	L mm	Tiefe mm	colour	G kg
PC					
UDM22-USB	45	22,5	33,5	white	0,01

UDM22 HDMI Media module 22,5 x 45 mm

article number	B mm	L mm	Tiefe mm	colour	G kg
PC					
UDM22-HDMI	45	22,5	33,5	white	0,01

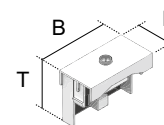


Device installation cups and installation devices

Data technology / multimedia

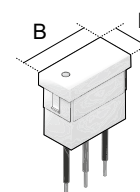
UDM22 TV Media module 22,5 x 45 mm

article number	B mm	L mm	Tiefe mm	colour	G kg
PC					
UDM22-TV	45	22,5	33,5	white	0,01



USSM FM overvoltage protection module

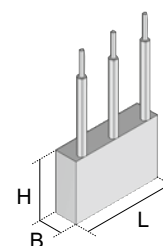
article number	B mm	L mm	G kg
PA			
USSM22-FM	22,5	45	0,03



USSM overvoltage protection module Class III/ D/ type3

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	G kg
PA					
USSM	9	24	36	red	0,01

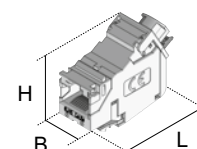


UDAEUM data systems installation device

article number	H mm	B mm	L mm	slots	plug angle °	G kg
PC						
UDAEUM-CAT6 1	28	14,6	35,5	1	45	0,02

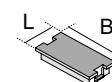
accessories optional:

UDEP KR	Adapter board data technology	(page D17)
UDEP RMSC 3	Adapter board data technology	(page D17)
UGET 2 KR	Device cup assembly carrier data technology	(page D10)
UGET 2 RMSC	Device cup assembly carrier data technology	(page D10)
UDAP45 KS	Data cover, Keystone	(page D39)
UDA22-KS	Data cover, Keystone	(page D36)



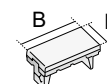
UAA B 22 cover

article number	B mm	L mm	colour	G kg
ABS				
UAA-B 22	45	22,5	black	0,01



UAA B 22 W cover

article number	B mm	L mm	colour	G kg
PC				
UAA-B 22-W	45	22,5	white	0,01



Device installation cups and installation devices

Data technology / multimedia

UAPAM Cable outlet

article number	B mm	L mm	colour	G kg
PC				
UAPAM-KA 45	45	45	white	0,01

accessories optional:

UAM 1 Cover plate for 1xUST45 (page D07)

UDAE45 data systems installation device double, not screened

article number	B mm	L mm	colour	G kg
PC				
UDAE45-CAT6U 8/8	45	45	white	0,03

accessories optional:

UAM 1 Cover plate for 1xUST45 (page D07)

USA45 automatic circuit breaker

article number	B mm	L mm	colour	G kg
PC				
USA45-B16	45	45	white	0,05

accessories optional:

UAM 1 Cover plate for 1xUST45 (page D07)

UANT45 TV/ radio/ SAT-single socket

Outlet: TV: IEC connector (male) IEC 60169-2, FM: IEC socket (female) IEC 60169-2, SAT: F connector (female) IEC 60169-24 Frequency: TV: 5-68, 120-862 MHz, FM: 87.5-108 MHz, SAT: 950-2150 Mhz Impedance: 75 ohms Shielding effectiveness: UHF > 65 dB VHF > 75 dB, SAT > 55 dB Recommended cable dimensions: 7 mm

article number	B mm	L mm	Tiefe mm	colour	G kg
PC					
UANT45 1	45	45	33	white	0,07

accessories optional:

UAM 1 Cover plate for 1xUST45 (page D07)

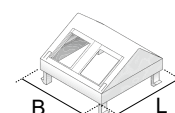
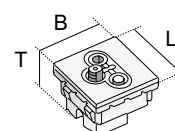
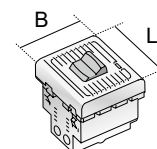
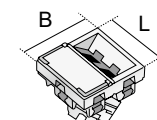
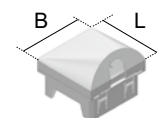
UDA45-COR Data cover, Corning

Data cover for 2 Corning LANscape® module, made of plastic, white, latchable, plug direction 30°.

article number	B mm	L mm	colour	G kg
ABS				
UDA45-COR 2	45	45	white	0,02

accessories optional:

UG45 Device cup, quadrangular, open (page D12)



Device installation cups and installation devices

Data technology / multimedia

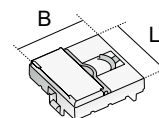
UDA45-KR Data cover, KRONE

Data cover for 1 KRONE modular Jack, made of plastic, white, latchable.

article number	B mm	L mm	colour	G kg
ABS				
UDA45-KR 1	45	45	white	0,01

accessories optional:

UG45 Device cup, quadrangular, open (page D12)



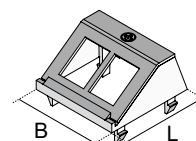
UDAP45 KS Data cover, Keystone

Double data socket cover, plug direction 30°, for snapping into place two Keystone Modules with installation opening 19,50 x 14,70 mm.

article number	H mm	B mm	L mm	colour	G kg
PA AL					
UDAP45-KS 2	22	45	45	black	0,01

accessories optional:

UG45 Device cup, quadrangular, open (page D12)



UDAP45 BTR data cover, BTR

Dual data socket cover, plug-in direction 30° for latching two BTR modules into adapter board with installation opening of 19.35 / 21.55 x 14.85mm.

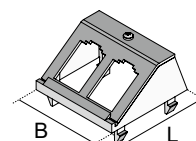
article number	H mm	B mm	L mm	colour	G kg
PA AL					
UDAP45-BTR 2	22	45	45	black	0,01

accessories included:

1 x **BLS 2.9x6.5** tapping screw (page D49)

accessories optional:

UG45 Device cup, quadrangular, open (page D12)



UDAP45 GG45 data cover

Dual data socket cover, plug-in direction 30° for latching two GG45 modules into adapter board with installation opening of 20.10 x 14.70mm.

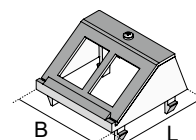
article number	H mm	B mm	L mm	colour	G kg
PA AL					
UDAP45-GG45 2	22	45	45	black	0,01

accessories included:

1 x **BLS 2.9x6.5** tapping screw (page D49)

accessories optional:

UG45 Device cup, quadrangular, open (page D12)



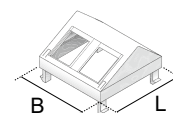
UDA45-RM Data cover, Reichle & De-Massari

Data cover for 2 Reichle & De-Massari modules, made of plastic, white, latchable, plug direction 30°.

article number	B mm	L mm	colour	G kg
ABS				
UDA45-RM 2	45	45	white	0,02

accessories optional:

UG45 Device cup, quadrangular, open (page D12)



D

Device installation cups and installation devices

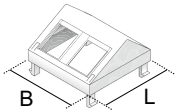
Data technology / multimedia

UDA45-SYM Data cover, Systimax

Data cover for 2 Systimax modules, made of plastic, white, latchable, plug direction 30°.

article number	B mm	L mm	colour	G kg
ABS				
UDA45-SYM 2	45	45	white	0,02

accessories optional:
UG45 Device cup, quadrangular, open (page D12)

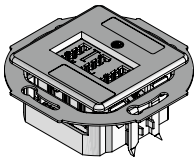


UTAE Telecommunications socket

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	slots	G kg
PC						
UTAE-6NFN	31	50	50	pearl white (similar RAL1013)	3	0,05

accessories optional:
UA 3 Cover plate for 3xUTAE (page D06)
UA 1 Cover plate for 1xUTAE (page D07)
UGET 3-3 device carrier, 3x UTAE (page D22)

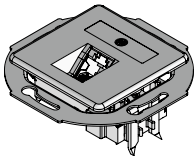


UDAE data systems installation device

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	slots	G kg
PC						
UDAE 8	31	50	50	pearl white (similar RAL1013)	1	0,05
UDAE 8/8	31	50	50	pearl white (similar RAL1013)	2	0,05

accessories optional:
UA 3 Cover plate for 3xUDAE (page D06)
UA 1 Cover plate for 1xUDAE (page D07)
UGET 3-3 device carrier, 3x UDAE (page D22)

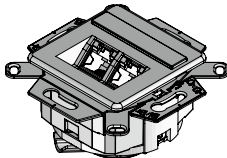


UDAE CAT5 data systems installation device

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	slots	G kg
PC						
UDAE-CAT5 8	40	50	50	pearl white (similar RAL1013)	1	0,15
UDAE-CAT5 8/8	40	50	50	pearl white (similar RAL1013)	2	0,16

accessories optional:
UA 3 Cover plate for 3xUDAE (page D06)
UA 1 Cover plate for 1xUDAE (page D07)
UGET 3-3 device carrier, 3x UDAE (page D22)



UDAE CAT6 data systems installation device

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	slots	G kg
PC						
UDAE-CAT6 8	40	50	50	pearl white (similar RAL1013)	1	0,15
UDAE-CAT6 8/8	40	50	50	pearl white (similar RAL1013)	2	0,16

accessories optional:

- UA 3

Cover plate for 3xUDAE

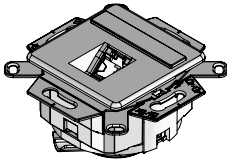
(page D06)
- UA 1

Cover plate for 1xUDAE

(page D07)
- UGET 3-3

device carrier, 3x UDAE

(page D22)



Device installation cups and installation devices

Pin-and-socket connector systems

UG45WA-2 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour Snap-in
ABS				
UG45WA-CW2	68	74	225	black
UG45WA-G2	68	74	225	white
UG45WA-O2	68	74	225	white



UG45WA-3 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour Snap-in
ABS				
UG45WA-G3	68	74	225	white
UG45WA-CW3	68	74	225	black
UG45WA-O3	68	74	225	white



UG45WA-4 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

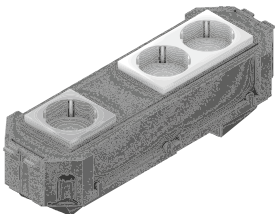
article number	H mm	B mm	L mm	colour Snap-in
ABS				
UG45WA-CW4	68	74	225	black
UG45WA-O4	68	74	225	white



UG45WA-2-1 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour Snap-in
ABS				
UG45WA-CW2O1	68	74	225	back/white
UG45WA-O2CW1	68	74	225	white/black



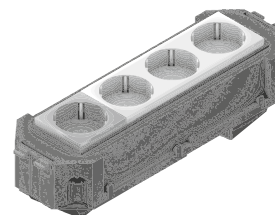
Device installation cups and installation devices

Pin-and-socket connector systems

UG45WA-3-1 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	Snap-in
ABS					
UG45WA-CW3O1	68	74	225	back/white	
UG45WA-O3CW1	68	74	225	white/black	



UG45WA-2-2 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

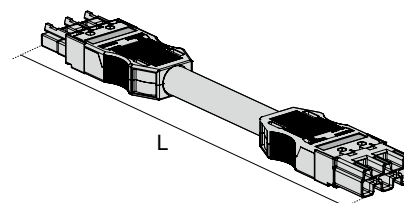
article number	H mm	B mm	L mm	colour	Snap-in
ABS					
UG45WA-CW2O2	68	74	225	back/white	
UG45WA-CW2G2	68	74	225	back/white	



UVABU connecting line plug - socket, WAGO

WAGO WINSTA MIDI system
For assembly instructions, see the chapter assembly.

article number	L mm	KQ mm ²	colour	input/output
PA PVC				
UVABU-S-2.5-100	1000	2,5	black	3pole
UVABU-S-2.5-400	4000	2,5	black	3pole
UVABU-S-2.5-600	6000	2,5	black	3pole
UVABU-S-2.5-800	8000	2,5	black	3pole
UVABU-W-2.5-100	1000	2,5	white	3pole
UVABU-W-2.5-400	4000	2,5	white	3pole
UVABU-W-2.5-600	6000	2,5	white	3pole
UVABU-W-2.5-800	8000	2,5	white	3pole



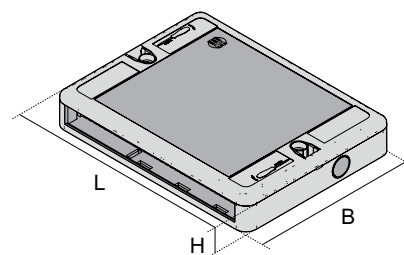
UV distributor box, WAGO

WAGO WINSTA MIDI system
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	input	output	G kg
PA							
UV-S 6K	30	145	190	black	2x5pole	6x3pole	0,40
UV-W 6K	30	145	190	white	2x5pole	6x3pole	0,40
UV-S0 6K	30	145	190	black	1 x clamp	6x3pole	0,40
UV-W0 6K	30	145	190	white	1 x clamp	6x3pole	0,40

accessories optional:

UVBU-5	socket component, WAGO	(page D44)
UVABU	connecting line plug - socket, WAGO	(page D43)
UVB-2	distributor block, 2x3 pole, WAGO	(page D44)
UVBU-3	socket component, WAGO	(page D44)



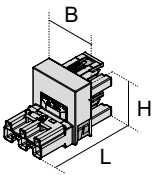
Device installation cups and installation devices

Pin-and-socket connector systems

UVB-2 distributor block, 2x3 pole, WAGO

WAGO WINSTA MIDI system

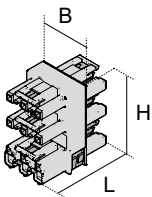
article number	H mm	B mm	L mm	colour	input	output	G kg
PA							
UVB-S 2K	33	30	51	black	1x3pole	2x3pole	0,02
UVB-W 2K	33	30	51	white	1x3pole	2x3pole	0,02



UVB-5 distributor block, 5x3 pole, WAGO

WAGO WINSTA MIDI system

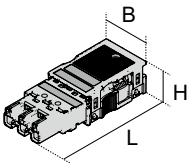
article number	H mm	B mm	L mm	colour	input	output	G kg
PA							
UVB-S 5K	48	30	46	black	1x3pole	5x3pole	0,05
UVB-W 5K	48	30	46	white	1x3pole	5x3pole	0,05



UVST-3 plug component, WAGO

WAGO WINSTA MIDI system

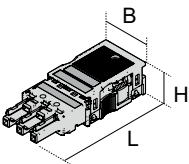
article number	H mm	B mm	L mm	AQ mm ²	colour	output	G kg
PA							
UVST-S-3PK	15	35	76	4,0	black	3pole	0,02
UVST-W-3PK	15	35	76	4,0	white	3pole	0,02



UVBU-3 socket component, WAGO

WAGO WINSTA MIDI system

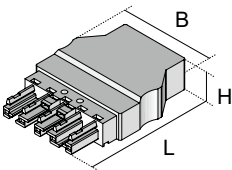
article number	H mm	B mm	L mm	AQ mm ²	colour	output	G kg
PA							
UVBU-S-3PK	15	35	76	4,0	black	3pole	0,02
UVBU-W-3PK	15	35	76	4,0	white	3pole	0,02



UVBU-5 socket component, WAGO

WAGO WINSTA MIDI system

article number	H mm	B mm	L mm	AQ mm ²	colour	output	G kg
PA							
UVBU-S-5PK	17	55	76	4,0	black	5-pole	0,02
UVBU-W-5PK	17	55	76	4,0	white	5-pole	0,02

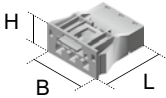


Device installation cups and installation devices

Pin-and-socket connector systems

UVS ST snap-in-piece, plug, WAGO

article number	H mm	B mm	L mm	AQ mm ²	colour	input	output	G kg
PA								
UVS-ST-S1K	17	35	37	4,0	black	1 x clamp	1x3pole plug	0,01
UVS-ST-W1K	17	35	37	4,0	white	1 x clamp	1x3pole plug	0,01



UG45WI-2 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	Snap-in
ABS					
UG45WI-CW2	68	74	225	black	
UG45WI-G2	68	74	225	white	
UG45WI-O2	68	74	225	white	



UG45WI-3 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	Snap-in
ABS					
UG45WI-CW3	68	74	225	black	
UG45WI-G3	68	74	225	white	
UG45WI-O3	68	74	225	white	



UG45WI-4 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

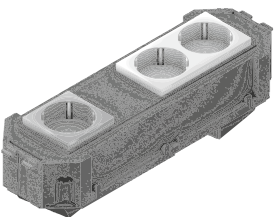
article number	H mm	B mm	L mm	colour	Snap-in
ABS					
UG45WI-CW4	68	74	225	black	
UG45WI-O4	68	74	225	white	



UG45WI-2-1 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	Snap-in
ABS					
UG45WI-CW2O1	68	74	225	back/white	
UG45WI-O2CW1	68	74	225	white/black	



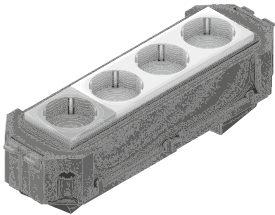
Device installation cups and installation devices

Pin-and-socket connector systems

UG45WI-3-1 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

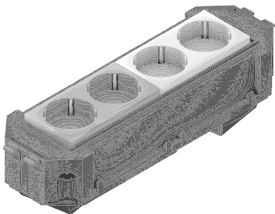
article number	H mm	B mm	L mm	colour Snap-in
ABS				
UG45WI-CW3O1	68	74	225	back/white
UG45WI-O3CW1	68	74	225	white/black



UG45WI-2-2 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour Snap-in
ABS				
UG45WI-CW2O2	68	74	225	back/white
UG45WI-CW2G2	68	74	225	back/white



UGWI-FILS6A device cup pre-mounted with FI/LS switch 6 A

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	KQ mm ²	colour Snap-in
UGWI-CW2FILS6A-300	83	74	225	2,5	black
UGWI-O2FILS6A-300	83	74	225	2,5	white
UGWI-CW2FILS6A-200	83	74	225	2,5	black
UGWI-O2FILS6A-200	83	74	225	2,5	white



UGWI-FILS10A device cup pre-mounted with FI/LS switch 10 A

For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	KQ mm ²	colour Snap-in
UGWI-CW2FILS10A-300	83	74	225	4	black
UGWI-O2FILS10A-300	83	74	225	4	white
UGWI-CW2FILS10A-200	83	74	225	4	black
UGWI-O2FILS10A-200	83	74	225	4	white



Device installation cups and installation devices

Pin-and-socket connector systems

UGWI-FILS16A device cup pre-mounted with FI/LS switch 16 A

For assembly instructions, see the chapter assembly.

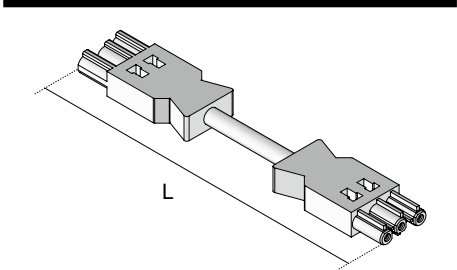
article number	H mm	B mm	L mm	KQ mm ²	colour Snap-in
UGWI-CW2FILS16A-300	83	74	225	4	black
UGWI-O2FILS16A-300	83	74	225	4	white
UGWI-CW2FILS16A-200	83	74	225	4	black
UGWI-O2FILS16A-200	83	74	225	4	white



UVABUWI connecting line plug - socket, Wieland

For assembly instructions, see the chapter assembly.

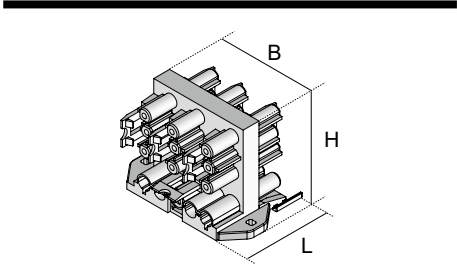
article number	L mm	KQ mm ²	colour	input/output
PA PVC				
UVABUWI-S-2.5-100	1000	2,5	black	3pole
UVABUWI-S-2.5-400	4000	2,5	black	3pole
UVABUWI-S-2.5-600	6000	2,5	black	3pole
UVABUWI-S-2.5-800	8000	2,5	black	3pole
UVABUWI-W-2.5-100	1000	2,5	white	3pole
UVABUWI-W-2.5-400	4000	2,5	white	3pole
UVABUWI-W-2.5-600	6000	2,5	white	3pole
UVABUWI-W-2.5-800	8000	2,5	white	3pole



UVWI distributor block, Wieland

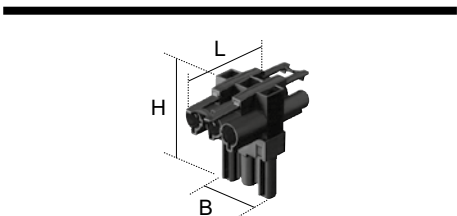
For assembly instructions, see the chapter assembly.

article number	H mm	B mm	L mm	colour	input	output	G kg
PA							
UVWI-S 6	57	50	59	black	1x5pole	6x3pole	0,02
UVWI-W 6	57	50	59	white	1x5pole	6x3pole	0,02



UVBWI-2 distributor block, Wieland

article number	H mm	B mm	L mm	colour	input	output	G kg
PA							
UVBWI-S 2	43	28	59	black	1x3pole	2x3pole	0,02
UVBWI-W 2	43	28	59	white	1x3pole	2x3pole	0,02

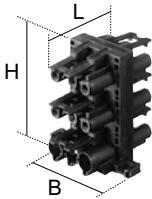


Device installation cups and installation devices

Pin-and-socket connector systems

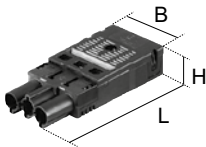
UVBWI-5 distributor block, Wieland

article number	H mm	B mm	L mm	colour	input	output	G kg
PA							
UVBWI-S 5	53	52	59	black	1x3pole	5x3pole	0,02
UVBWI-W 5	53	52	59	white	1x3pole	5x3pole	0,02



UVSTWI-3 Plug part, Wieland

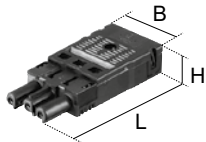
article number	H mm	B mm	L mm	AQ mm ²	colour	output	G kg
PA							
UVSTWI-S-3P	16	33	75	2,5	black	3pole	0,02
UVSTWI-W-3P	16	33	75	2,5	white	3pole	0,02



UVBUWI-3 socket part, Wieland

Wieland gesis GST 18i3

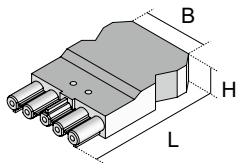
article number	H mm	B mm	L mm	AQ mm ²	colour	output	G kg
PA							
UVBUWI-S-3P	16	33	75	2,5	black	3pole	0,02
UVBUWI-W-3P	16	33	75	2,5	white	3pole	0,02



UVBUWI-5 socket part, Wieland

Wieland gesis GST 18i3

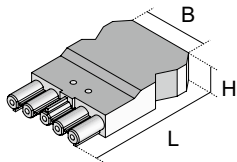
article number	H mm	B mm	L mm	AQ mm ²	colour	output	G kg
PA							
UVBUWI-S-5P	17	48	77	2,5	black	5-pole	0,02
UVBUWI-W-5P	17	48	77	2,5	white	5-pole	0,02



UVBUWI-4.0-5 socket part, Wieland

Wieland gesis GST 18i3

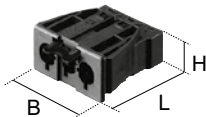
article number	H mm	B mm	L mm	AQ mm ²	colour	output	G kg
PA							
UVBUWI-S-4.0-5P	17	48	85	4,0	black	5-pole	0,02
UVBUWI-W-4.0-5P	17	48	85	4,0	white	5-pole	0,02



UVSWI ST Snap-in-piece, plug, Wieland

WIELAND GST18 system

article number	H mm	B mm	L mm	AQ mm ²	colour	input	output	G kg
PA								
UVSWI-ST-W1	17	35	37	2,5	white	1 x clamp	1x3pole plug	0,02
UVSWI-ST-S1	17	35	37	2,5	black	1 x clamp	1x3pole plug	0,02

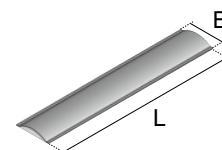


Device installation cups and installation devices

Accessories

UBS label strip

article number	B mm	L mm	G kg
S			
UBS 10x60	10	60	0,01



BLS tapping screw

article number	G kg
S	
BLS 2.9x6.5	0,01
BLS 2.9x13	0,01
BLS 2.9x22	0,01
BLS 2.9x32	0,01
BLS 4.8x9.5	0,01
BLS 4.8x16	0,01



BSS Flat head tapping screw

article number	L mm	G kg
GV		
BSS 4.8x16	16	<0.01



UGZ R strain relief

article number	G kg
ABS	
UGZ-R	0,01



accessories included:
1 x **BLS 2.9x22** tapping screw (page D49)

accessories optional:
BLS tapping screw (page D49)

UGZ strain relief

article number	G kg
ABS	
UGZ	0,01



accessories optional:
BLS tapping screw (page D49)

UWZ Z underfloor tongs

article number	G kg
S	
UWZ-Z	0,22

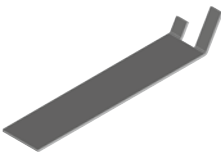


Device installation cups and installation devices

Accessories

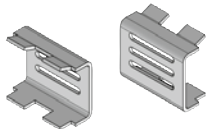
UWZ UG mounting lever

article number	G
	kg
S	
UWZ-UG	0,07



UGEA D adaptor for data-device carriers for GB

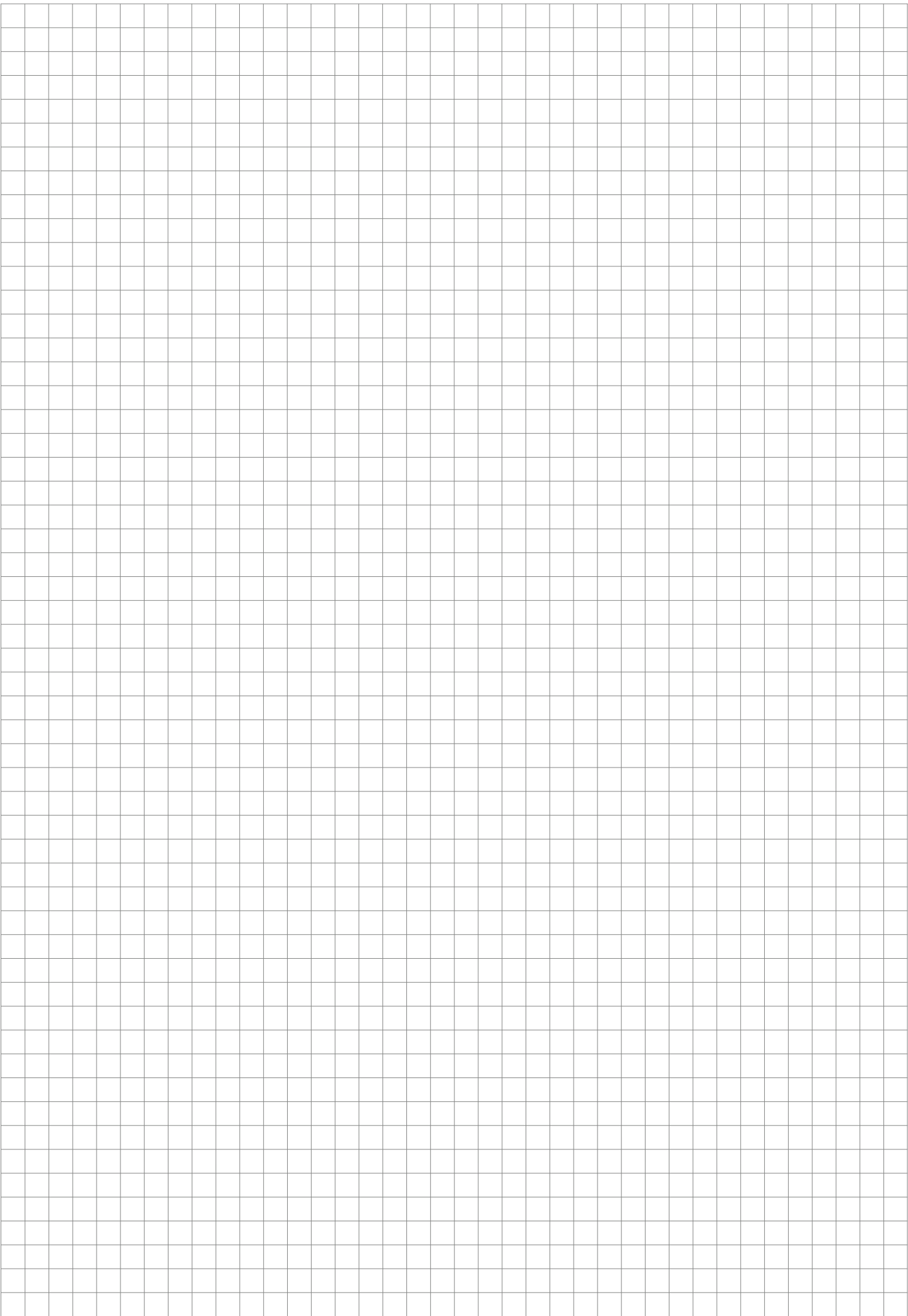
article number	G
	kg
S	
UGEA-D	0,02



Planning and technical information

Information we need	E03
Assembly requirements	E04-E06
Fire protection	E07
Cable assignment	E08-E10
Impact noise behaviour	E11-E13
Casing depth device cup including installation device	E14-E15
Types of protection and floor maintenance of installation units	E16-E17
Data technology	E18-E21

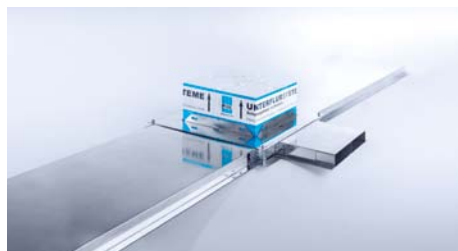




Information we need

Technical information

1. Which floor system should be / is used?



- ☐ screed flush
- ☐ screed-covered
- ☐ false or hollow space floor

3. Types of screed



- ☐ screed
- ☐ hot asphalt

5. Flooring



- ☐ carpet
- ☐ linoleum
- ☐ parquet
- ☐ stone
- ☐ asphalt
- ☐ other: _____

7. Form of mounting unit



- ☐ round
- ☐ quadrangular

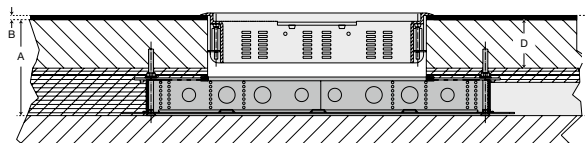
9. Assembly



number of high-voltage installation units: _____ pc

number of data technology installation units: _____ pc

2. Floor construction



A) height from concrete to screed top edge _____ mm

B) floor covering thickness _____ mm

C) total floor construction _____ mm

D) screed thickness _____ mm

4. Resilience of the system



- ☐ office loads
- ☐ heavy loads

6. Cleaning of flooring



- ☐ dry maintained rooms
- ☐ wet maintained rooms

8. Material



- ☐ stainless steel
- ☐ plastic

10. Version



- ☐ German Schuko plug-system
- ☐ British plug-system
- ☐ French plug-system
- ☐ Swiss plug-system

Structural requirements

In order to be able to start installing an underfloor duct system, the following requirements must be fulfilled and on hand:

- approved dimensioned installation plan, specifying the location of all assembly parts
- project piece list with the materials to be installed
- documents providing information on floor construction and floor covers
- an approved, clean and swept shell ceiling in the constructional tolerances based on DIN 18 202 (see appendix 2)
- the precise cutting check as a reference point for the corresponding screed height
- specifications regarding traffic loads, fire preventions and subsonic noise behaviour
- the mounting area must be free of construction waste and extraneous material
- protection against weather conditions and moisture must be guaranteed
- specifications regarding minimum installation depth and floor maintenance of installation units

Screed work

Ducts and accessory parts are construction parts that reach their complete loading capacity for the intended use only in firm combination with screed.

In detail the following requirements are indispensable for this purpose:

- The duct system must be sealed before applying the screed
- The system elements must be firmly fixed to the slab ceiling
- The mounted duct system must not be walked upon or strained in any other way
- A safe composite of the duct system and screed must be guaranteed
- Occurring hollow spaces must be lined with screed
- A good thickness and concision of screed must be guaranteed in the floor box areas and in the area of the screed flush duct, in order to prevent later irregularities and cracks in screed
- The duct system must be strained only after the hardening of the screed. Until then, access to the area must be denied
- Screed deformations and shrinkage must be observed

beforehand

The use of insulating strips for the decoupling of the duct system from the screed may lead to a damage of the screed, respectively duct, and to fissuring of the floor cover and must therefore be refrained from.

Expansion joints between the screed and the screed flush ducts can consequently result in deformations of the duct and impair the stability and load capacity of the entire system.

Complying to of the screed types and minimum screed thickness according to DIN 18 560-2 (see appendix 1) must be guaranteed. Thereby a nominal screed thickness of at least 40 mm above the duct for office and work space with a distributed load of up to 2 kN/m² must be observed.

Higher loads require correspondingly higher nominal screed thicknesses based on DIN EN 18560. The duct system itself will be strained with a single load of 750 N/cm² and inspected with accordance to the norm.

When using liquid screed, all openings of < 7 mm conforming to standards must be professionally masked.

Hot asphalt

When using hot asphalt, please note:

- The duct system must be protected from high installation temperatures by using suitable insulation layers
- If the insulation layers are > 2 mm, the insulation strip between the shuttering unit and asphalt must be removed after the hot asphalt has cooled off and the formed gap must be filled with suitable materials flush with the surface
- The shuttering unit must be removed after the hardening of the material

The use of the duct system

The underfloor system must comply with the requirements of DIN EN 50085. The duct system must be mounted on the slab ceiling according to the mounting instructions and taking into account the technical information.

When using a hollow space floor box with a shuttering unit, the following aspects must be complied to:

- The components must be protected against moisture and mechanical damage
- solid and vertical pre-assembly in the floor box
- spray with formwork oil before applying screed
- To decouple floor box and screed, only separating foil of < 2 mm thickness may be used
- apply screed precisely

The floor boxes must have the following minimum screed height in order to be applicable:

Article-Number	Duct Height	Minimum height	Use
UBDHB350/250 28	28 mm	65 mm	pultrusion cup
UBDHB350/250 38	38 mm	75 mm	pultrusion/installation cup
UBDHB350/250 48	48 mm	85 mm	pultrusion/installation cup

The screed flush duct system requires a minimum floor construction of 60 mm.

Including the duct system into protection measures

- All metallic parts of the entire duct system must be included in the protection measures
- According to VDE all conductive parts of the duct system must be included in the potential equalization. This is done at the transition points of the installation parts by welding, riveting, creating a firm pressure connection using bolted joints or by means of flexible earthing conductors
- The electric installation duct system may not be used as an equipotential bonding conductor
- The duct system must be connected to in the potential equalization of the entire system in the context of the electrical installation work

- When using light plastic-sheathed cable with protective insulation, it is sufficient to include only the floor boxes into the safety measures. For this purpose, each floor box body is equipped with a conductor clamp.
- In case of expansion gaps it must be ensured that the connections between the installation parts are performed in a flexible manner.

The declared linear impedance for electrical installation duct lengths UK is 0.001 ohm per metre and for the screed flush duct systems UEBS 0.0005 ohm per metre.

Floor covers

When selecting floor cover materials please mind that the underfloor installation systems are subject to the impact of payloads and are classified by means of test loads of 500 N to 15.000 N according to DIN EN 500 85. Thereby dynamic deflections of up to 6 mm and lasting distortions of up to 3 mm are not objectionable.

Flatness measures for full-area floors must be observed in accordance with DIN 18202 Table 3, line 3.

Self-supporting layer thickness for exposed concrete floor covers, synthetic resin covers, melted asphalt covers as well as tiles or dressed stone therefore prevent later fissuring of the cover with changing dynamic pressure.

Already minor deflections cause damage of thin, hard floor covers such as tiles. Solid floor covers such as granite slabs increase the load capacity of the underfloor installation system and allow for a better load spreading.

Appendix 1: Excerpt from DIN 18560-2:2009-09

Table 1 – Nominal thicknesses and bending tensile strength or hardness of unheated screed on insulation layers for vertical loading capacities $\leq 2 \text{ kN/m}^2$

Screed type	Bending stress class / hardness class according to DIN EN 13813	Nominal screed thickness ^a [mm] with a compressibility of the insulation layer ^c $\leq 5 \text{ mm}^b$	Confirmatory test Bending tensile strength βBZ [N/mm ²]		Depth of penetration [mm]	
			Lowest single value	Medium value	at $(22 \pm 1)^\circ\text{C}$	at $(40 \pm 1)^\circ\text{C}$
Calcium sulphate floating screed CAF	F4	≥ 35	$\geq 3,5$	$\geq 4,0$	–	–
	F5	≥ 35	$\geq 4,5$	$\geq 5,0$	–	–
	F7	≥ 35	$\geq 6,5$	$\geq 7,0$	–	–
Calcium sulphate screed CA	F4	≥ 45	$\geq 2,0$	$\geq 2,5$	–	–
	F5	≥ 40	$\geq 2,5$	$\geq 3,5$	–	–
	F7	≥ 35	$\geq 3,5$	$\geq 4,5$	–	–
Melted asphalt screed AS	IC10	≥ 25	–	–	$\leq 1,0$	$\leq 4,0$
	ICH10	≥ 35	–	–	$\leq 1,0$	$\leq 2,0$
Synthetic resin screed SR	F7	≥ 35	$\geq 4,5$	$\geq 5,5$	–	–
	F10	≥ 30	$\geq 6,5$	$\geq 7,0$	–	–
Magnesia screed MA	F4 ^c	≥ 45	$\geq 2,0$	$\geq 2,5$	–	–
	F5	≥ 40	$\geq 2,5$	$\geq 3,5$	–	–
	F7	≥ 35	$\geq 3,5$	$\geq 4,5$	–	–
Cement screed CT	F4	≥ 45	$\geq 2,0$	$\geq 2,5$	–	–
	F5	≥ 40	$\geq 2,5$	$\geq 3,5$	–	–

- a For insulation layers of $\leq 40 \text{ mm}$ with calcium sulphate, synthetic resin, magnesia and cement screed, the nominal screed thickness may be reduced by 5 mm. The minimum thickness of 30 mm may not be under cut (except with melted asphalt).
- b When using melted asphalt screed, the compressibility of the insulation layers may not be above 3 mm.
- c The surface hardness of stone-wood screeds must correspond with at least SH 30 according to DIN EN 13813.
- d In case of a higher compressibility ($\leq 10 \text{ mm}$), the nominal screed thickness must be increased by 5 mm.

Appendix 2: Excerpt from DIN 18202

Table 3 – Flatness tolerances

Column	1	2	3	4	5	6
Line	Subject	Depth gauge as critical values in mm for measurement point distances in m up to				
		0,1	1 ¹⁾	4 ¹⁾	10 ¹⁾	15 ¹⁾²⁾
1	Unfinished topsides of ceilings, subconcrete and under-floors	10	15	20	25	30
2	Unfinished topsides of ceilings, subconcrete and under-floor, with higher requirements, e.g. for the installation of floating screed, industrial floors, tiles, flagging and bonded screed. Finished topsides for secondary purposes, e.g. in storage rooms, cellars.	5	8	12	15	20
3	Exposed flooring, e.g. screed as finished screed, screed as a basis for floor covers; floor covers, tiles covers, primed and glued covers	2	4	10	12	15
4	Like line 3, however with higher requirements	1	3	9	12	15
5	Unfinished walls and undersides of slab ceilings	5	10	15	25	30
6	Exposed walls and undersides of slabs, e.g. plastered walls, paneling, suspended ceiling	3	5	10	20	25
7	Like line 6, however with higher requirements	2	3	8	15	20

- 1) For interim values please see image 1 and 2 and round to whole mm.
- 2) The flatness tolerances in column 6 are also valid for measure point distances of above 15 m.

„Reprint courtesy of the German Standardisation Institute (DIN Deutsches Institut für Normung e. V.). The version relevant for the application of the DIN standard is its issue with the most recent date, available from the Beuth Verlag GmbH, Burggrafenstraße 6, 10787 Berlin.“

General information

The reaction to fire of construction materials and construction parts is specified in DIN 4102-9. (The fire inspections of cable insulations are specified in section 9.)

If fire resistance for a certain wall is required (DIN 4102 does not regulate fire resistances; they are specified in the state construction regulations as well as in other regulations, such as e.g. in the industrial building guideline), ducts may only be fed through that wall if the spreading of a fire may not be feared for a sufficiently time period of time, or if precautions against it have been taken. For the use of electrical installation duct systems this means that, if fire protection walls are crossed, they must be re-sealed providing fire protection and safety from smoke gas.

Wichmann cable fire insulation

By implementing the approved Systems Wichmann WD 90 cable fire insulation, a fire resistance period of 90 minutes will prevent the fire and smoke from being released through installation openings in fire protection walls. In detail the fire stop consists of a box with fire protection packages that in case of a fire will generate foam from 100°C on and of an independent smoke seal by means of EasyFoam plugs. Hereby a proper assembly and handling in accordance with the general construction approval must be complied to.

As a result, the implementation of the fire stop in duct systems offers the operator the following benefits:

- the use of an open separation in the fire protection wall
- a separate smoke gas insulation in the floor box
- an easy assembly and subsequent installation
- the duct system can be installed within the heat- and impact sound insulation

System requirements

- test standard: DIN 4102-9
- fire rating: S90
- approval specifications: Z-19.15-202
- verification of applicability: approval specifications with manufacturer's certificate

After the completed mounting in accordance with the following assembly instructions, a corresponding manufacturer's certificate must be requested, confirming to the constructor that this specific installation based on the building regulation is an „irrelevant deviation“ from the approval specifications. Provided a proper execution, a compliance with the approval specifications would be handed out.

German model duct systems guideline (MLAR)

Based on the regulations of MLAR, the following statement is made regarding fire protection behaviour in section 3.5.6:

„Underfloor ducts for cables that are screed-flush or screed covered must have an upper cover made of inflammable construction materials in necessary stairwells, in spaces between necessary stairwells and in outdoor exits as well as in necessary corridors. They must not have an opening except in the necessary corridors: inspection openings or openings for subsequent cable assignment with tightly closing sealings made of fire-proof materials.“

In this context it must be complied to that hollow floors must have a minimum screed thickness of 30 mm over underfloor duct.

Cable assignment in duct

Technical information

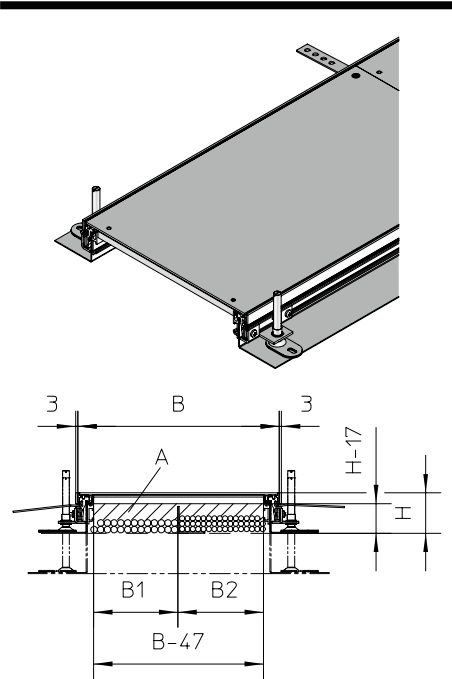
The calculation of the cable volume is the groundwork for the planning process. The cross sections of the selected standard duct types are average values. The calculation is based on a duct filling factor of no more than 60%. Note reduction in the cross-section by the installation depth of device cup and installation unit. For power load see DIN VDE 0100/0298.

Minimum installation cross section for one installation unit

	h	b	a
	mm	mm	cm ²
BODO T	100	118	118
UEKD2-R	65	240	156
UEKD2-V	65	184	120
UEKD3-R	65	300	195
UEKD3-V	65	256	166
UEDD V E	70	230	161
UEKDD2 V E	70	155	109
UEKDD1-2 V E	70	130	91

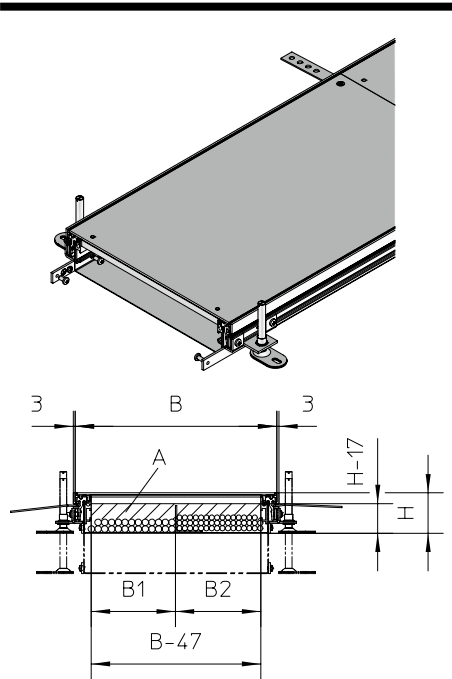
UEBS screed-flush duct with side profile

							B1 / power circuit line 3 x 2,5mm ²		B2 / data line Cat.6	
article number	H -17 mm	B -47 mm	A cm ²	B mm	B1 mm	B2 mm	Number Ø 10 mm	pay cross section cm ²	Number Ø 8 mm	pay cross section cm ²
S										
UEBS 60-20S	43	154	66	200	76	76	20	1	31	0,64
	63	154	97	200	76	76	29	1	45	0,64
	83	154	128	200	76	76	38	1	60	0,64
	133	154	205	200	76	76	61	1	96	0,64
UEBS 60-30S	43	254	109	300	126	126	33	1	51	0,64
	63	254	160	300	126	126	48	1	75	0,64
	83	254	211	300	126	126	63	1	99	0,64
	133	254	338	300	126	126	101	1	158	0,64
UEBS 60-40S	43	354	152	400	176	176	46	1	71	0,64
	63	354	223	400	176	176	67	1	105	0,64
	83	354	294	400	176	176	88	1	138	0,64
	133	354	471	400	176	176	141	1	221	0,64



UEBSMSW screed-flush duct with tub

B1 / power circuit line 3 x 2,5mm ²								B2 / data line Cat.6		
article number	H -17 mm	B -47 mm	A cm ²	B mm	B1 mm	B2 mm	Number Ø 10 mm	pay cross section cm ²	Number Ø 8 mm	pay cross section cm ²
S										
UEBSMSW 60-20S	43	154	66	200	76	76	20	1	31	0,64
	63	154	97	200	76	76	29	1	45	0,64
	83	154	128	200	76	76	38	1	60	0,64
	133	154	205	200	76	76	61	1	96	0,64
UEBSMSW 60-30S	43	254	109	300	126	126	33	1	51	0,64
	63	254	160	300	126	126	48	1	75	0,64
	83	254	211	300	126	126	63	1	99	0,64
	133	254	338	300	126	126	101	1	158	0,64
UEBSMSW 60-40S	43	354	152	400	176	176	46	1	71	0,64
	63	354	223	400	176	176	67	1	105	0,64
	83	354	294	400	176	176	88	1	138	0,64
	133	354	471	400	176	176	141	1	221	0,64

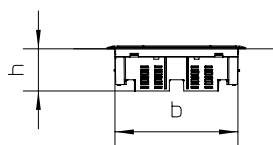


Cable assignment in duct

Technical information

The calculation of the cable volume is the groundwork for the planning process. The cross sections of the selected standard duct types are average values. The calculation is based on a duct filling factor of no more than 60% with a floor box space of max. 8m. Note reduction in the cross-section by the installation depth of device cup and installation unit. For power load see DIN VDE 0100/0298.

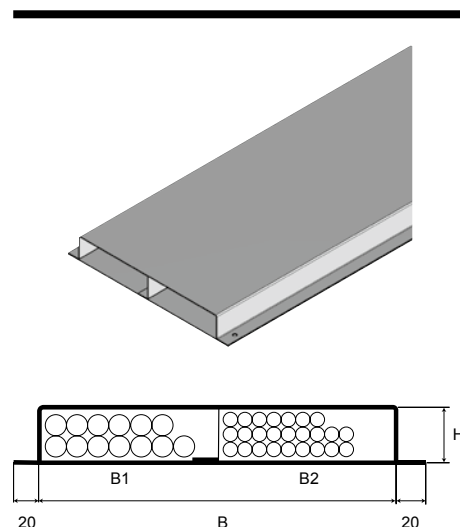
Minimum installation cross section for one installation unit



	h mm	b mm	a cm ²
BODO T	100	118	118
UEKD2-R	65	240	156
UEKD2-V	65	184	120
UEKD3-R	65	300	195
UEKD3-V	65	256	166
UEDD V E	70	230	161
UEKDD2 V E	70	155	109
UEKDD1-2 V E	70	130	91

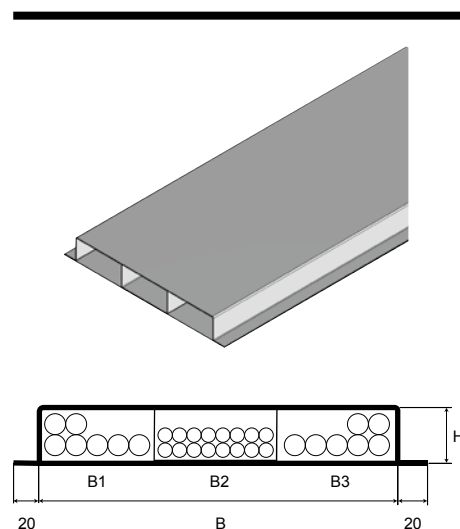
UK screed covered duct, 2 compartments

article number	H mm	B mm	A cm ²	B1 / power circuit line 3 x 2,5mm ²				B2 / data line Cat.6	
				B1 mm	B2 mm	Number Ø 10 mm	pay cross section cm ²	Number Ø 8 mm	pay cross section cm ²
S									
UK 2-28-190S	28	190	53	94	94	16	1	25	0,64
UK 2-28-250S	28	250	70	124	124	21	1	33	0,64
UK 2-28-350S	28	350	98	173	173	29	1	45	0,64
UK 2-38-190S	38	190	72	94	94	21	1	33	0,64
UK 2-38-250S	38	250	95	124	124	28	1	44	0,64
UK 2-38-350S	38	350	133	173	173	39	1	62	0,64
UK 2-48-190S	48	190	91	94	94	27	1	42	0,64
UK 2-48-250S	48	250	120	124	124	36	1	56	0,64
UK 2-48-350S	48	350	168	173	173	50	1	78	0,64



UKL screed covered duct, 3 compartments

							B1 & B3 / power circuit line 3 x 2,5mm ²		B2 / data line Cat.6	
article number	H mm	B mm	A cm ²	B1 mm	B2 mm	B3 mm	Number Ø 10 mm	pay cross section cm ²	Number Ø 8 mm	pay cross section cm ²
S										
UKL 3-28-250S	28	250	70	82	83	82	14	1	22	0,64
UKL 3-28-350S	28	350	98	116	116	116	19	1	30	0,64
UKL 3-38-250S	38	250	95	82	83	82	19	1	30	0,64
UKL 3-38-350S	38	350	133	116	116	116	26	1	41	0,64
UKL 3-48-250S	48	250	120	82	83	82	24	1	37	0,64
UKL 3-48-350S	48	350	168	116	116	116	33	1	52	0,64

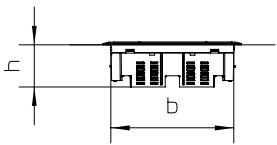


Cable assignment in duct

Technical information

The calculation of the cable volume is the groundwork for the planning process. The cross sections of the selected standard duct types are average values. The calculation is based on a duct filling factor of no more than 60%. Note reduction in the cross-section by the installation depth of device cup and installation unit. For power load see DIN VDE 0100/0298.

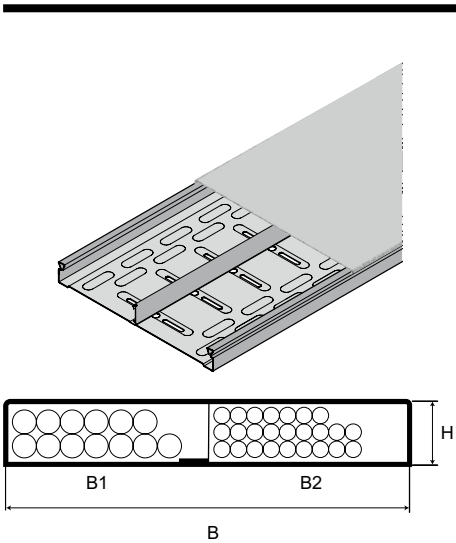
Minimum installation cross section for one installation unit



	h mm	b mm	a cm ²
BOD0 T	100	118	118
UEKD2-R	65	240	156
UEKD2-V	65	184	120
UEKD3-R	65	300	195
UEKD3-V	65	256	166
UEDD V E	70	230	161
UEKDD2 V E	70	155	109
UEKDD1-2 V E	70	130	91

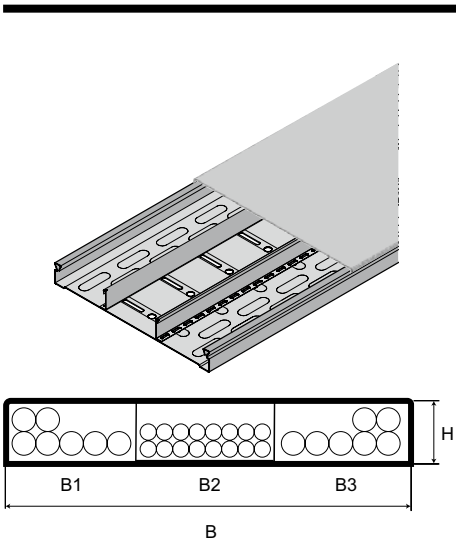
UKR 2 cable duct bottom piece, 2 compartments

B1 / power circuit line 3 x 2,5mm ²								B2 / data line Cat.6	
article number	H mm	B mm	A cm ²	B1 mm	B2 mm	Number Ø 10 mm	pay cross section cm ²	Number Ø 8 mm	pay cross section cm ²
S									
UKR 35-30S	35	300	105	149	149	31	1	49	0,64



UKR 3 cable duct bottom piece, 3 compartments

							B1 & B3 / power circuit line 3 x 2,5mm ²		B2 / data line Cat.6	
article number	H mm	B mm	A cm ²	B1 mm	B2 mm	B3 mm	Number Ø 10 mm	pay cross section cm ²	Number Ø 8 mm	pay cross section cm ²
S										
UKR 35-40S	35	400	140	132	132	132	28	1	43	0,64
UKR 35-50S	35	500	175	165	165	165	35	1	54	0,64
UKR 60-40S	60	400	240	132	132	132	48	1	74	0,64
UKR 60-50S	60	500	300	165	165	165	59	1	93	0,64
UKR 85-40S	85	400	340	132	132	132	67	1	105	0,64
UKR 85-50S	85	500	425	165	165	165	84	1	131	0,64
UKR 110-40S	110	400	440	132	132	132	87	1	136	0,64
UKR 110-50S	110	500	550	165	165	165	109	1	170	0,64



Sound insulation using underfloor duct systems

The sound insulation requirements in buildings are regulated by DIN 4109. The key objective is to keep the noise disturbance on a minimum level. Acoustic decoupling between concrete slab, duct system and screed by means of insulation layers should always be the basic requirement, resulting in the formation of floating screed. Otherwise the excitation of structure borne noise is transmitted directly to the concrete slab, and a reduction of the impact sound pressure level can be only achieved by using soft resilient floor covers.

Measurement method underfloor duct systems

To evaluate the subsonic noise behaviour of screed-covered installation ducts in constructed buildings, measurements according to DIN 52210-2 with standard flanking transmissions according to DIN EN ISO 140-7 were carried out in a test facility.

A standardised force initiated structure-borne noise in the broadcasting room. The testing procedure involved the initiation on screed as well as directly on the duct, respectively on the installation unit.

The reception levels were determined using a real-time analyser and a microphone as measuring instruments. The standard subsonic noise $L'_{n,w}$ is calculated as a parameter of the construction part to be evaluated while taking into account the volume and the reverberation period.

The reduction of subsonic noise ΔL_w equals the difference between the standard subsonic noise of a floor with and without floor cover. However, the reduction of subsonic noise must be at least effective enough to ensure that the required standard subsonic noise in office buildings is not exceeded. The required standard subsonic noise values in office buildings are specified as follows:

Normal requirements standardised impact sound pressure level

$$L'_{n,w} \leq 53 \text{ db (DIN 4109 table 3)}$$

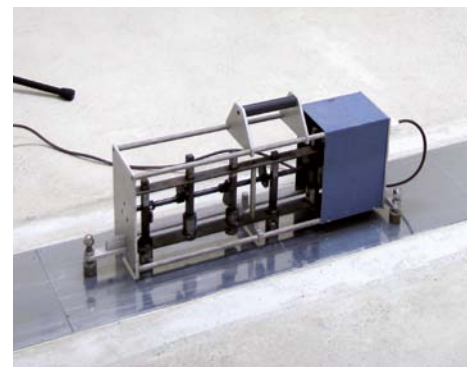
Raised requirements (suggestions) impact sound pressure level

$$L'_{n,w} \leq 46 \text{ db (DIN 4109 supplement 2 table 3)}$$

Receiving room



Broadcasting room



For the accuracy of the measuring results



IBAS Berlin GmbH
Scharnweberstr. 104
12587 Berlin
Tel.: 030/6486032
Fax: 030/64849207

IBAS

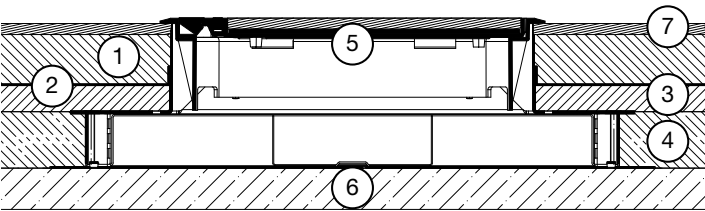
Ingenieurgesellschaft für Bauphysik, Akustik und Schwingungstechnik mbH
Meßstelle nach § 26 BLSchG

Impact noise behaviour | Screed-covered underfloor duct system

Technical information

Test

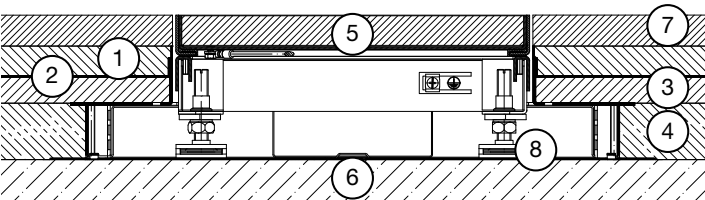
Duct UKL, hollow space floor box UBDHB350 V and with plastic installation unit UEKD3 V, quadrangular



Test setup	ΔL_w (dB)	$L'_{n,w}$ (dB)
Duct system installed in floating screed, stimulation on screed	29	52
Duct system installed in floating screed, stimulation on screed with textile floor cover	40	41
Duct system installed in floating screed, stimulation on installation unit with textile floor cover	46	35

Results according to test report 13-840 from March 2014

Duct UKL, hollow space floor box UBDHB350 V and with high-grade steel installation unit UEKD V E, mounted quadrangular on levelling unit UNE



Test setup	ΔL_w (dB)	$L'_{n,w}$ (dB)
Duct system installed in floating screed, stimulation on high-grade steel installation unit with parquet floor cover	28	53
Duct system installed in floating screed, stimulation on high-grade steel installation unit with parquet floor cover, decoupling over the rubber sleeve	31	50

Results according to test report 13-840 from March 2014

Setup:

1. 50 mm cement screed
2. 1 mm foil
3. 20 mm impact sound insulation plate
4. 40 mm heat insulation plate
5. installation unit
6. 160 mm concrete slab
7. floor cover (carpet 8,0 mm, parquet 12 mm)
8. rubber sleeve UGM

$L'_{n,w} = 81$ dB stimulation on concrete slab
 $L'_{n,w} = 50$ dB stimulation on screed, without installations

Test results

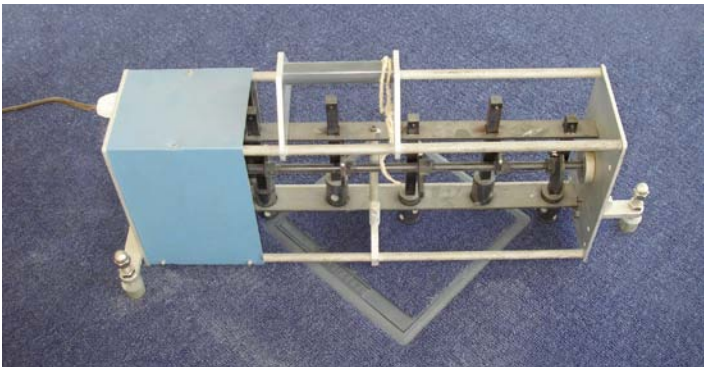
The test results with all proper applications show that the screed-covered underfloor system meets the standard noise protection requirement of 53 dB for floors in office buildings. The installation of the underfloor systems into the floating screed of a floor is therefore completely unproblematic as to the subsonic noise behaviour.

Whether the noise stimulation occurs on screed or directly on the installation unit is irrelevant for the laying of carpet floor covers or parquet. An additional decoupling of the levelling systems from the concrete slab by means of a rubber sleeve results in an impact noise improvement by 3 dB as opposed to the direct mounting of the levelling system to the concrete slab. The advantage of the new hollow space floor box is its complete mechanical decoupling from the duct system and becomes especially obvious with the use of parquet, stone, mastic asphalt surfaces or exposed concrete.

Broadcasting room with parquet floor covers

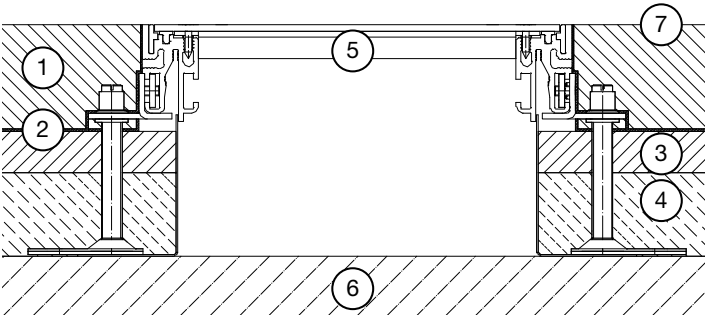


Broadcasting room with carpet floor covers



Test

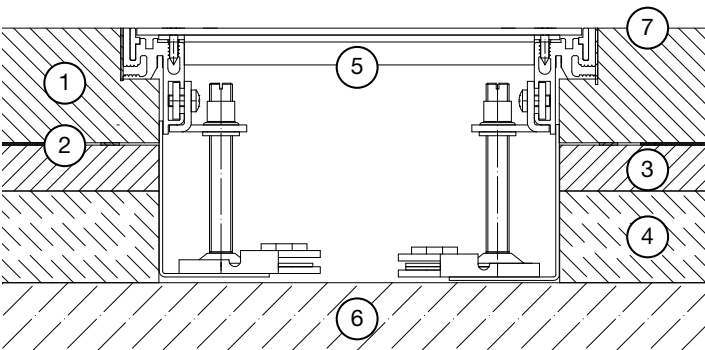
Duct UEBS and a outboard leveling



Test setup	ΔL_w (dB)	$L'_{n,w}$ (dB)
Duct system installed in floating screed, stimulation on screed and duct	28	53
Duct system installed in floating screed, stimulation on screed and duct with linoleum	33	48
Duct system installed in floating screed, stimulation on screed and duct with textile floor cover	40	41

Results according to test report 13-840 from March 2014

Duct UEBS and a internal leveling



Test setup	ΔL_w (dB)	$L'_{n,w}$ (dB)
Duct system installed in floating screed, stimulation on screed and duct without decoupling	28	53
Duct system installed in floating screed, stimulation on screed and duct, decoupling over the rubber sleeve	29	52
Duct system installed in floating screed, stimulation on screed and duct, decoupling suspended without leveling	30	51

Results according to test report 13-840 from March 2014

Setup:

1. 50 mm cement screed
2. 1 mm foil
3. 20 mm impact sound insulation plate
4. 40 mm heat insulation plate
5. screed-flush duct UEBS
6. 160 mm concrete slab
7. floor cover (carpet 8,0 mm, linoleum 2,8 mm)

$L'_{n,w} = 81$ dB stimulation on concrete slab

$L'_{n,w} = 50$ dB stimulation on screed, without installations

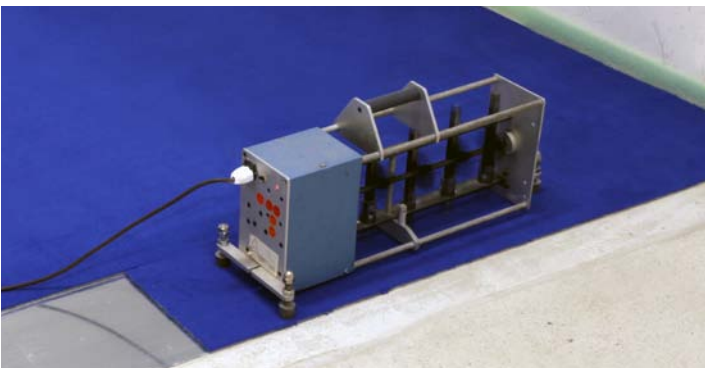
Test results

The test results with all proper applications show that the screed-flush underfloor system meets the standard noise protection requirement of 53 dB for floors in office buildings. The installation of the underfloor systems into the floating screed of a floor is therefore completely unproblematic as to the subsonic noise behaviour.

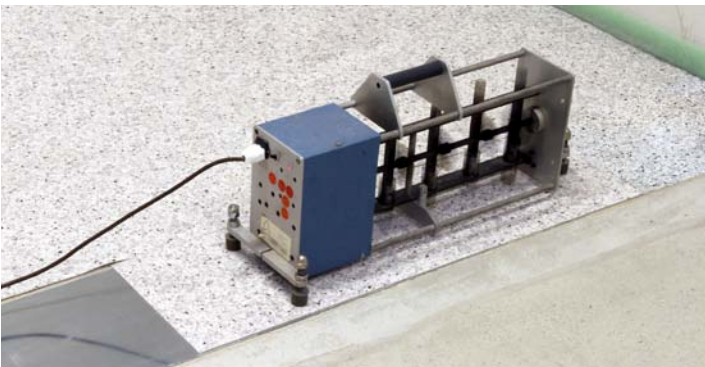
When laying carpet or linoleum floor covers, it is irrelevant in this context, whether the subsonic noise initiation occurs on screed or directly on the duct. Even in case of an initiation without floor cover the standard subsonic noise requirements are met.

A decoupling of the duct system with inside levelling through a rubber cuff renders a subsonic noise reduction of up to 1 dB. A complete decoupling by means of a subsequent removal of the levelling supports after the hardening of screed results in a subsonic noise reduction of up to 2 dB.

Broadcasting room with carpet floor covers



Broadcasting room with linoleum floor covers



Casing depth device cup including installation device

Technical information

General Requirements

For underfloor trunking systems, the height of the floor construction primarily determines the tolerance for the installation of the installation unit, device cup and installation equipment.

In order to meet the basic requirements according to protection type IP 20 based on DIN EN 50085, the cover or the cartridge must be lockable in working condition. Thereby the required minimum system installation height is derived for the use of angled or straight connectors of data, respectively power technology.

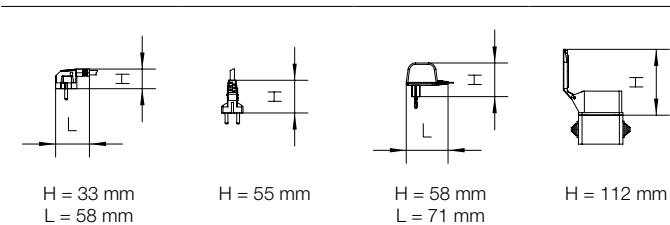
Technical specifications

Minimum installation depths of system components

The minimum installation depths we calculated refer to the minimum size of the common market connectors for power engineering shown in the illustrations.

The use of CEE sockets with angled connectors requires an especially high floor structure of at least 185 mm. If straight connectors are used the unit can not be locked in due form in used condition.

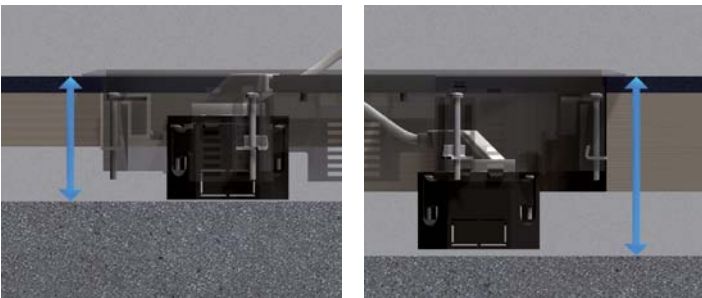
angled connector straight connector adapter CEE socket



The use of locked-in leads made of plastic material and stainless steel in the corresponding installation units allows to lower the installed devices stepwise in the device cups or device carriers by up to 30 mm. This only applies if the necessary tolerance below the installation unit is provided and is not blocked by power cables or cables for data technology.

The previously mentioned cable duct height should be especially adhered to when screed covered duct systems are installed. In that case the tolerance is reduced by 28 to 48mm height, depending on the applied duct height.

minimum installation height 74 mm maximum installation height 104 mm

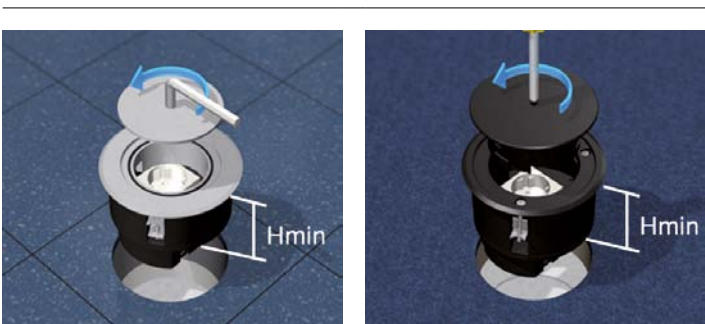


CEE socket with angled connector CEE socket with straight connector



The floor power sockets BODO require the following minimum installation heights (Hmin).

BODO N | Hmin = 87 mm BODO T | Hmin = 102 mm



In order to guarantee a safe and non-slip surface, angled as well as straight connectors can be used.

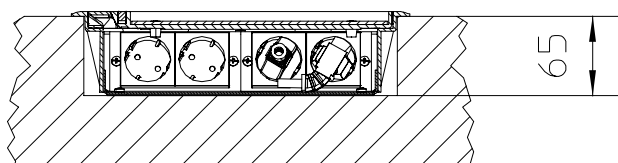
Casing depth device cup including installation device

Technical information

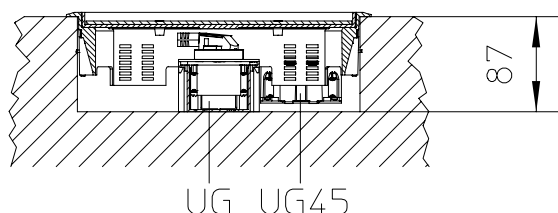
Plastic installation units*

Please note that with plastic units the depth of the floor cover in the cover is based on carpeting of up to 8 mm. The shown minimum installation depths are based on quadrangular and round plastic material units.

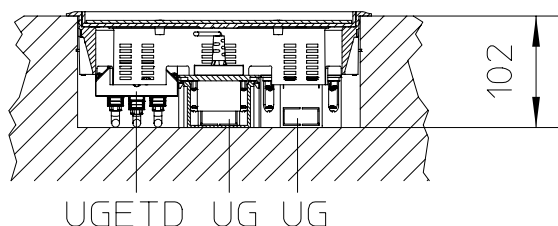
A head space > 65 mm between raw ceiling and floor cover surface is needed for coupler plugs in device insert.



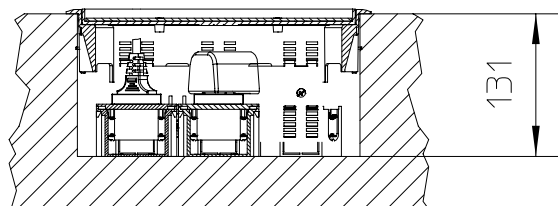
A head space > 87 mm (UG45 > 80 mm) between raw ceiling and floor cover surface is needed for angle plug in electrical socket inside device cup.



Provided the smallest possible bending radius 4D of installation cables of up to Ø 10 mm is to be complied to the resulting minimal installation depth of the device carrier UGETD is > 120 mm from the upper edge of the floor cover to the raw floor. The same applies when a flexible straight connector in a device cup socket is used.



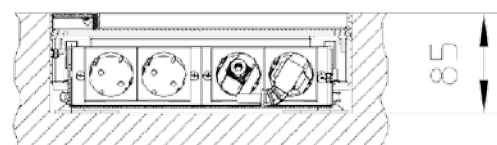
A head space > 131 mm between raw ceiling and floor cover surface is needed for inflexible straight line plug resp. charging set in electrical socket inside device cup in connection with registering extension for device cup installation.



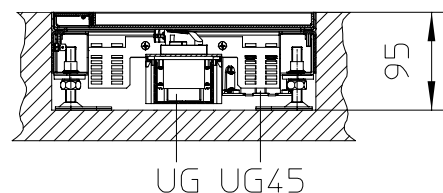
Stainless steel installation units, square*

Please note that with stainless steel units, the depth of the floor cover applies to floor covers of up to 12 mm. The following minimum installation depths apply to quadrangular stainless steel units. A fitting into round stainless steel installation units may require higher installation depths.

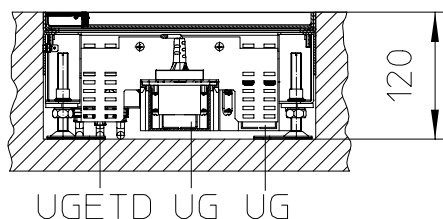
If coupler plugs are used in the device insert, a tolerance of > 85 mm is needed from the upper edge of the floor cover to the slab ceiling.



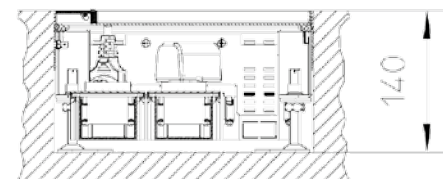
If an angled connector of up to 35mm height is used in a socket in a device cup UG, a tolerance of > 95 mm (UG45 > 88 mm) is needed from the upper edge of the floor cover to the slab ceiling.



Provided the smallest possible bending radius 4D of installation cables of up to Ø 10 mm is to be complied to, the resulting minimal installation depth of the device carrier UGETD is > 120 mm from the upper edge of the floor cover to the raw floor. The same applies when a flexible straight connector in a device cup socket is used.



If a rigid straight connector, respectively a charging device is used in a socket in the device cup, a tolerance of > 140 mm is needed from the upper edge of the floor cover to the slab ceiling.



Types of protection and floor maintenance of installation units

Technical information

General Requirements

The testing of the type of protection for underfloor trunking systems and cable ducting systems is regulated by EN 60529, and the type of testing of floor maintenance by DIN EN 50085. In order to determine the optimum type of protection, the installation unit is tested in both, used and unused condition. The respective conditions are declared separately. All cable systems and installation units must fulfil at least protection type IP 20 in both conditions, used and unused. Additionally to the declaration of the protection type for wet maintenance it must be ensured that in working condition the cable exits are placed at least 10 mm above the floor surface.

Technical exemplifications

Labelling

All PUK installation units are labelled according to DIN EN as follows:



Dry maintenance

The process of cleaning and / or maintenance of the floor, during which dry or low-moisture methods covers are used that do not cause a pool formation or soaking of the floor.



Wet maintenance

The process of cleaning and / or maintenance of the floor during which wet cleaning or maintenance items are used, that may cause a short-term pool formation or soaking of the floor covers.

Data sheets

The data sheets obtain the protection type for all PUK system installation units in unused / used condition as well as the application area of floor maintenance based on classified tests according to DIN EN 50085.

The specifications differentiate between rooms with dry, moist and wet maintenance floors.

The application areas of floor maintenance are in accordance with the definitions of the commercial cleaning trade, and the specification of protection type is based on classification.

Application recommendations

According to DIN EN 50085 the underfloor system is not suitable for outdoor use!

Wet maintenance

Based on the IP-protection levels listed in the data sheets, the stainless steel installation units guarantee protection against contact and against water according to the requirements of DIN EN 50085. A passing over with simultaneous cleaning of the installation units is not a part of this norm specification. The VDE views the examination of load capacity and of protection type separately. A combination of both is not intended.

Consequently, a double pressure caused by a heavy, unilateral weight and by power water is not provided in the regulations. Overly high water- and loading pressure can result in dust particles and cleaning liquids entering the inside of the installation unit. Above mentioned floor maintenance may cause damage and impairment of the rubber seals. In order to ensure the safety level, we recommend that all sealed components of the installation units are cleaned and maintained on a regular base.

Dry maintenance

Based on the IP protection levels stated in the data sheets, the plastic material installation units guarantee protection against contact and against water according to the regulations by DIN EN 50085. The DIN EN 50085 requires a minimum standard of IP 20.

Plastic installation units are therefore suitable for carpet floors and offer no protection against water ingress.

Improper floor maintenance may cause damage to the installation unit and to the electric installation. In order to maintain visual attractiveness and functionality, regular cleaning is recommended.

If the stated instructions are adhered to, it can be ensured that the underfloor electric installation is protected from harmful effects during standard use.

Type of protection according to classification

The types of casting protection are specified in the regulations IEC 60529, respectively DIN EN 60529, both containing a classification according to different types of protection. The below illustration shows an overview of the protection types.

















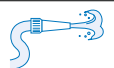
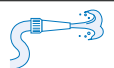

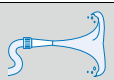
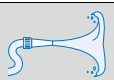




Code Letter: International Protection (IP)			First Index Number: Protection against solid foreign particles			Second Index Number: Protection against water		
Scope of protection			Scope of protection			Scope of protection		
0		no protection against contact, no protection against solid foreign particles	0		no protection against water	0		no protection against water
1		protection against large area contact with the hand, protection against foreign particles of $\varnothing \geq 50$ mm	1		protection against dripping water, vertically falling water drops	1		protection against dripping water, vertically falling water drops
2		protection against contact with fingers, protection against foreign particles of $\varnothing \geq 12,5$ mm	2		protection against dripping water from any angle up to 15° from a vertical position	2		protection against dripping water from any angle up to 15° from a vertical position
3		protection against contact with tools, wires, etc. of $\varnothing \geq 2,5$ mm, protection against foreign particles of $\varnothing \geq 2,5$ mm	3		protection against spraying water from any angle up to 60° from a vertical position	3		protection against spraying water from any angle up to 60° from a vertical position
4		protection against contact with tools, wires, etc. of $\varnothing \geq 1$ mm, protection against foreign particles of $\varnothing \geq 1$ mm	4		protection against splashing water from any direction	4		protection against splashing water from any direction
5		protection against touch, protection against dust accumulation on the inside	5		protection against water jet from any angle	5		protection against water jet from any angle
6		complete protection against touch, protection against ingress of dust	6		protection against heavy water jet from any angle	6		protection against heavy water jet from any angle
			7		protection against water intrusion with a temporary submerge	7		protection against water intrusion with a temporary submerge
			8		protection against water intrusion with lasting submerge	8		protection against water intrusion with lasting submerge

Illustration based on DIN EN 60529, IEC 60529
visual material of www.solamagic.com

Types of cleaning according to the commercial cleaning definitions*

Damp wiping

Definition: Dust-mopping on a stage work level with damp or prepared cleaning textiles for the removal of loose surface dust and to a lesser degree also for the removal of persistent surface dirt.

Goal / Result: The surface is clean of persistent dirt and of surface dust.

Remarks / Notes: Voraussetzungen zur Anwendung der Feuchtwischmethode sind glatte Bodenbeläge.

Wet wiping

Definition: Manual wet mopping with cleaning textiles for the removal of adhesive dirt.

Goal / Result: The surface is clear of dust, persistent dirt, and adhesive dirt.

Wet wiping, single stage

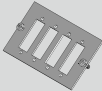
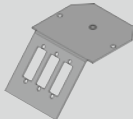
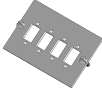


Definition: The cover is cleaned in one work step with more or less strongly drained cleaning textiles.

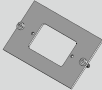
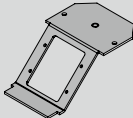

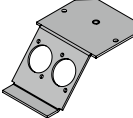
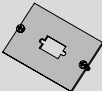
The liquid remaining after this work step is left to dry.

Wet wiping, two-stage

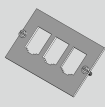
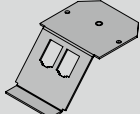

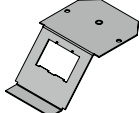
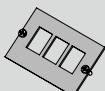
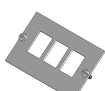

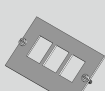

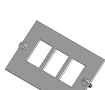


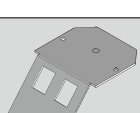

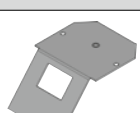
Definition: The two-stage method represents the conventional wet wiping method. In the first work step, a considerable amount of cleaning liquid is applied to the floor cover using a cleaning textile, in order to soak, respectively dissolve, persistent and water-bound dirt.

In the second work step, the remaining soiled liquids are absorbed and wiped off with the cleaning textile.

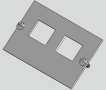


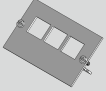
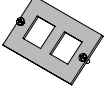
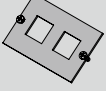
Light wave technology			
mounting boards UDEP for device carrier UGETD	device carrier UGET 113 for device mounting cup UG	manufacturer	mounting
			SC-Duplex
UDEP-SCD 4	UGET-3-SCD 113		
			SC-Simplex LC-Duplex
UDEP-SCS 4	UGET-3-SCS 113		
			LC-Duplex Multimode
	UGET-2-LCDM 113		

Audio- / video technology			
mounting boards UDEP for device carrier UGETD	device carrier UGET 113 for device mounting cup UG	manufacturer	mounting
		Kindermann Kindermann	Konnect 50 alu / 50 steel connection face place 25 x 50 mm (UDEP-KM 1) Konnect 50 alu / 50 steel connection face place 50 x 50 mm (UGET-2-KM 113)
UDEP-KM 1	UGET-2-KM 113		
		Neutrik	D Serie, DL Serie, DLX Serie
UDEP-XLR 2	UGET-2-XLR 113		
			D-Sub 9
UDEP-DSUB9 1			

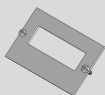
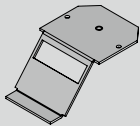
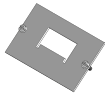
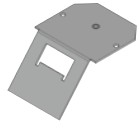
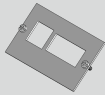
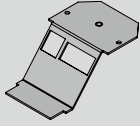
Data technology

mounting boards UDEP for device carrier UGETD	device carrier UGET 113 for device mounting cup UG	manufacturer	mounting
		BTR BTR BTR BTR Dätwyler LEONI Kerpen	E-DAT module Cat.6 8(8) E-DAT module coupler 8(8) Cat.6 8(8) 90° Cat.6 UAE module Cat.5e 8(8) or Cat.6 8(8) OpDAT module LC or ST KOAX module F/F or F/IEC-plug or socket Unilan® RJ45-Module MS 1/8 Cat.6/EA shielded VarioKeystone® Socket module RJ45 or 4K7 or 4K6
		Corning Corning Corning Corning	FutureCom™ S10 ^{TEN} e Module Kat. 6 _A , LANscape® FutureCom™ S500 Module Kat. 6 _A , LANscape® FutureCom™ S250 Module Kat. 6, LANscape® FutureCom™ S100e Module Kat. 5e, LANscape®
		Harting Harting	Ha-VIS PreLink RJ45 socket Keystone module Cat6 Ha-VIS RJ45 socket Keystone set AWG22/23 Cat6
		TE Connectivity Corning Siemon	AMP FutureCom™ S1200 Module Kat.7 _A , LANscape® TERA® 4-Pair Outlet
		TE Connectivity TE Connectivity TE Connectivity	AMP-TWIST 7AS SL Jack AMP-TWIST 6 _A S SL Jack AMP-TWIST 6S SL Jack
		3M Deutschland GmbH 3M Deutschland GmbH 3M Deutschland GmbH Brand-Rex Brand-Rex Nexans Nexans	3M Volition RJ45 connecting module CAT6A PL 180 3M Volition K6 RJ45 connecting module STP, single shielded 3M Volition K6 RJ45 connecting module STP, without shielding cover 10GPlus CAT6 _A shielded module, tool-free AC6JAKS000 Cat6Plus shielded module, tool-free C6CJAKS000 LANmark EVO module up to Cat.6A with Keystone clip blue LANmark GG45 Module Cat.7/7 _A with metal clip
		TE Connectivity TE Connectivity Brand-Rex Brand-Rex CobiNet CobiNet CobiNet CobiNet Corning Corning Corning Dätwyler Dätwyler DIGITUS ECOLAN EFB EFB eku Kabel & Systeme eku Kabel & Systeme LEONI Kerpen LEONI Kerpen R&M R&M R&M Rutenbeck Rutenbeck Telegärtner Telegärtner ZVK ZVK	KRONE RJ45 STP KM8® Modular Jack Cat.6 _A KRONE RJ45 STP KM8® Modular Jack Cat.6 Cat6Plus Module C6CJAKS000CR "old version" 10GPlus Module AC6JAKS000CR "old version" CobiDat KS ICS 250 / 500 CobiDat KS IPS 250 / 500 CobiDat KS TPS 500 RJ45-Module TopKey FutureCom™ xs500 Module Kat. 6 _A , Keystone FutureCom™ S500 Module Kat. 6 _A , Keystone FutureCom™ S10 ^{TEN} e Module Kat. 6 _A , Keystone Unilan MS-K 1/8 Socket module Unilan KS-T 1/8 Socket module Keystone Module ELN336102 Cat.6a RJ45 Keystone module E-20070 Cat.6a RJ45 Keystone module E-20072 Cat.6 RJ45 Keystone module E-Stone Module Cat.6 _A , t66851000 E-Stone Pro Module Cat.6 _A , t66850990 MegaLine® Connect45 BM Keystone Kat. 6 _A MegaLine® Connect45 BM Keystone LEO Kat. 6 _A Connecting module Cat.6A ISO, 1xRJ45/s, Snap-in Connecting module Kat.6, Real 10, 1xRJ45/s, Snap-in Connecting module Kat.5, 1xRJ45/s, Snap-in All-purpose module UM-Cat.6A iso A, Keystone edition All-purpose module UM-real Cat.6 U A, unshielded, Keystone edition AMJ-Module K Cat.6 _A AMJ-S-Module Cat.6 _A EasyLan® preLink® RJ45 Keystone module (CKPAS010 / CKPAS020) EasyLan® fixLink® RJ45 Keystone module (CKFAK000 / CKFAKFLO)
		R&M R&M R&M R&M	Connecting module Cat.6A ISO, 1xRJ45/s (module fixture required) Connecting module, Kat.6, Real 10, 1xRJ45/s (module fixture required) Connecting module, Kat.5, 1xRJ45/s (module fixture required) Module fixture RJ45 / E-2000™-Compact / SC-RJ / all-purpose adapter

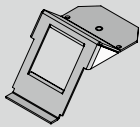
Data technology

mounting boards UDEP for device carrier UGETD	device carrier UGET 113 for device mounting cup UG	manufacturer	mounting
		R&M R&M R&M R&M R&M	Connecting module Cat.6A ISO, 1xRJ45/s, Snap-in Connecting module Kat.6, Real 10, 1xRJ45/s, Snap-In Connecting module Kat.5, 1xRJ45/s, Snap-in Connecting module Kat.6, 1xRJ45/u, Snap-in Connecting module Kat.5, 1xRJ45/u, Snap-in
UDEP-RMSC 2			
		Brand-Rex Brand-Rex CobiNet CobiNet CobiNet CobiNet Corning Corning Corning Dätwyler Dätwyler DIGITUS ECOLAN EFB EFB eku Kabel & Systeme eku Kabel & Systeme LEONI Kerpen LEONI Kerpen R&M R&M R&M Rutenbeck Rutenbeck Telegärtner Telegärtner ZVK ZVK	Cat6Plus Module C6CJAKS000CR "old version" 10GPlus Module AC6JAKS000CR "old version" CobiDat KS ICS 250 / 500 CobiDat KS IPS 250 / 500 CobiDat KS TPS 500 RJ45-Module TopKey FutureCom™ xs500 Module Kat. 6 _A , Keystone FutureCom™ S500 Module Kat. 6 _A , Keystone FutureCom™ S10™e Module Kat. 6 _A , Keystone Unilan MS-K 1/8 Socket module Unilan KS-T 1/8 Socket module Keystone Module ELN336102 Cat.6a RJ45 Keystone module E-20070 Cat.6a RJ45 Keystone module E-20072 Cat.6 RJ45 Keystone module E-Stone Module Cat.6 _A , t66851000 E-Stone Pro Module Cat.6 _A , t66850990 MegaLine® Connect45 BM Keystone Kat. 6 _A MegaLine® Connect45 BM Keystone LEO Kat. 6 _A Connecting module Cat.6A ISO, 1xRJ45/s, Snap-in Connecting module Kat.6, Real 10, 1xRJ45/s, Snap-in Connecting module Kat.5, 1xRJ45/s, Snap-in All-purpose module UM-Cat.6A iso A, Keystone edition All-purpose module UM-real Cat.6 U A, unshielded, Keystone edition AMJ-Module K Cat.6 _A AMJ-S-Module Cat.6 _A EasyLan® preLink® RJ45 Keystone module (CKPAS010 / CKPAS020) EasyLan® fixLink® RJ45 Keystone module (CKFAK000 / CKFAKFLO)
UDEP-RMSC 3	UGET-2-RMSC 113		
		LEONI Kerpen LEONI Kerpen LEONI Kerpen LEONI Kerpen LEONI Kerpen	ELine 1200® EC7 socket ELine 500® plus socket ELine 500™ RJ45 S socket ELine 250® RJ45 S socket ELine 250® RJ45 U socket
UDEP-KEL 3			
		Systimax Systimax	Systimax: MPS 100E cat.5, MPS S200E (required: Systimax installation frame type: M30MC) Systimax: MGS 300, MGS 400, MGS 500X10D, MGS 600X10D (required: Systimax installation frame type: M30MC)
UDEP-SYS 2			
		LexCom LexCom	LexCom: LexCom® 125 (required: LexCom installation frame) LexCom: LexCom® 250 (required: LexCom installation frame)
UDEP-LEX 2			

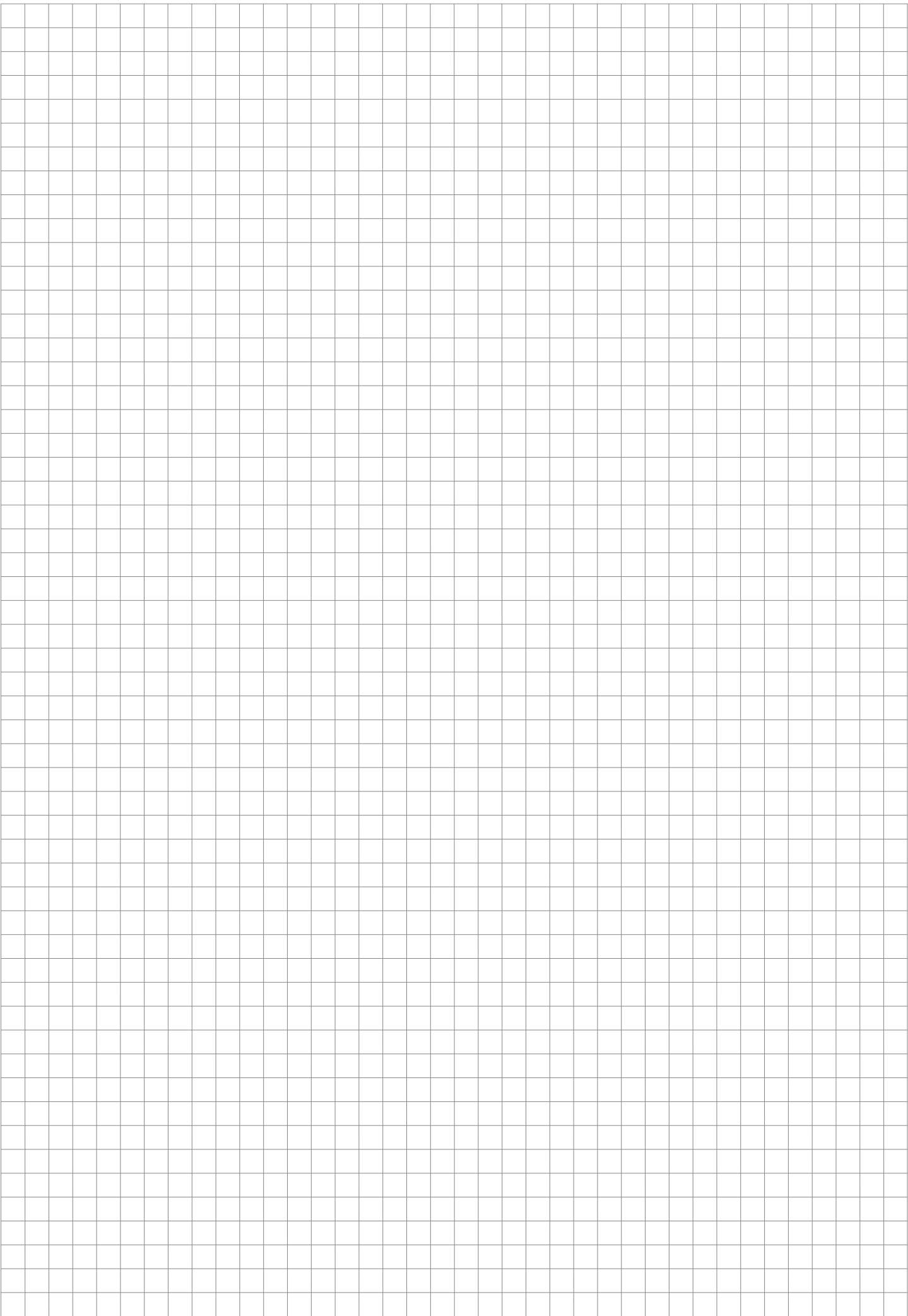
Plug-in systems

mounting boards UDEP for device carrier UGETD	device carrier UGET 113 for device mounting cup UG	manufacturer	mounting
		WAGO Wieland	Snap-in socket/plug 5-pole Snap-in socket/plug 5-pole
UDEP-5PK 1	UGET-1-5PK 113		
		WAGO	5-pole X-COM
UDEP-5PCOM 1	UGET-1-5PCOM 113		
		Wieland	1x 2-pole Bus, 1x 3-pole 250V
UDEP-3PK 2	UGET-2-3PK 113		

installation units, pre-snap-in

mounting boards UDEP for device carrier UGETD	device carrier UGET 113 for device mounting cup UG	manufacturer	mounting
		PEHA Legrand Simon	2x 22,5 x 45 mm or 1x 45 x 45 mm 2x 22,5 x 45 mm or 1x 45 x 45 mm 2x 22,5 x 45 mm or 1x 45 x 45 mm
	UGET-1-UST45 113		



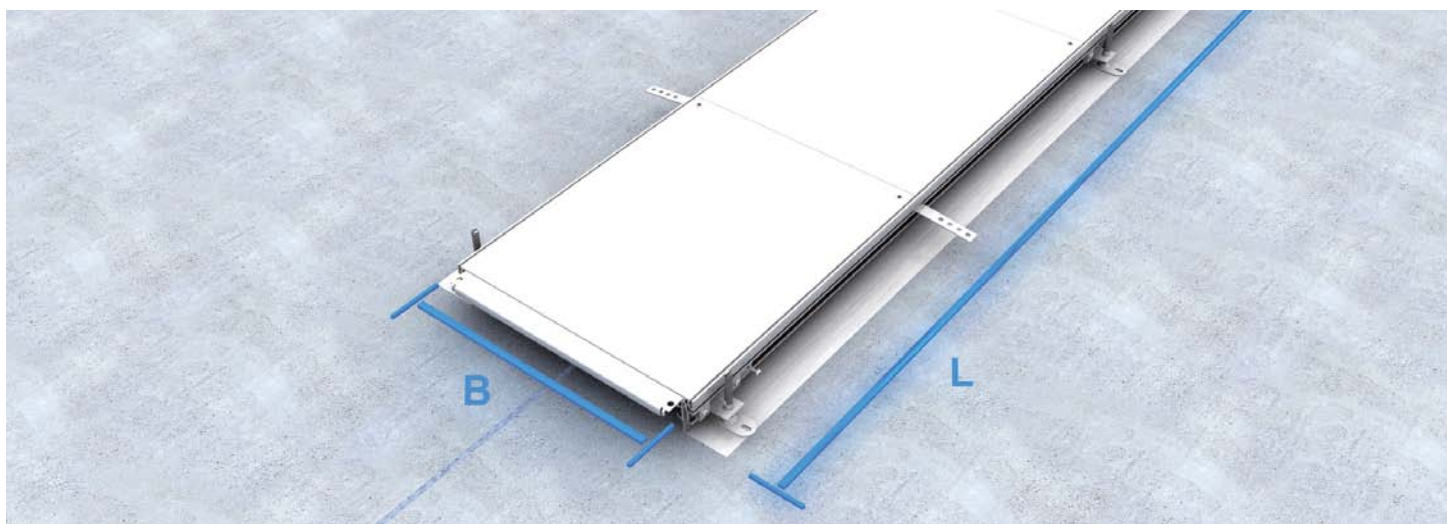


Screed flush duct	F02-F07
Screed flush heavy-duty duct	F08-F09
Hollow space floor box	F10-F11
Fire protection for screed-covered underfloor systems	F12-F13
Screed-covered cable duct system	F14-F15
Brush installation units made of plastic	F16-F21
Installation units made of plastic	F22-F27
Shuttering units	F28-F29
Cartridge units made of stainless steel	F30-F31
Heavy-duty cartridge units made of stainless steel	F32
Cartridge installation units made of stainless steel	F33-F34
Single outlets	F35-F39
Compact single outlets	F40-F41
Device installation cups and installation devices	F42-F43
Device mounting cup UG45	F44-F45
Connector systems	F46-F47
Flat conductor adapter FI/LS	F48-F50
Data-device carriers	F51
Device carrier CEE socket	F52
Device Inserts	F53-F54

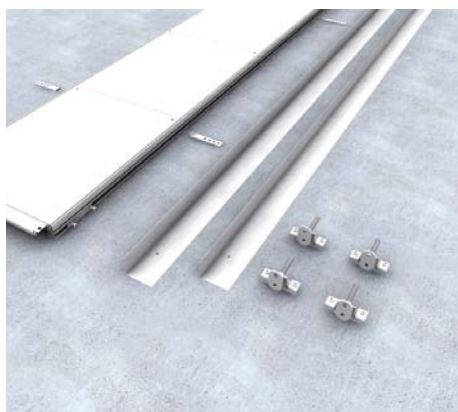


Screed flush duct

Assembly instruction

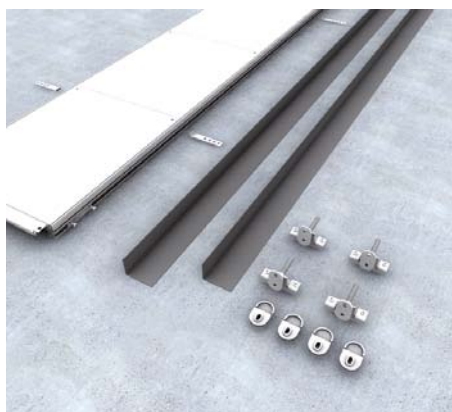


Before mounting read the technical information „Assembly Requirements“. Pre-assembled screed flush duct UEBS with four dummy covers in nominal widths $B = 200, 300$ and 400 and 500 mm made of steel plate with a length L of 2000 mm. Optional levelling areas between $60-110$ mm and $100-150$ mm. Three systems are available. Steel plate side panel as the basic version, synthetic side panels for impact noise isolation and as a closed base tub for EMV cable routing.



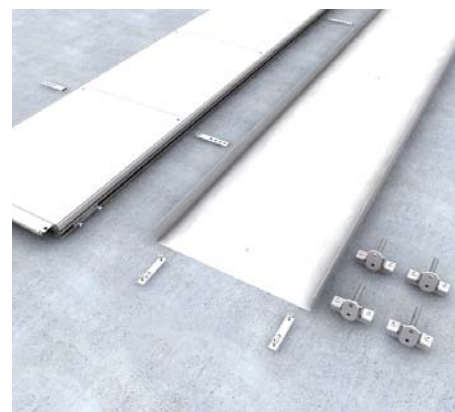
1 | UEBS with steel plate side panel

Necessary mounting material in addition to the UEBS with steel plate side panel: 1x side panel set UEBSMSP S and 4x levelling units UEBSST.



2 | UEBS with synthetic side panel

Mounting material required in addition to the UEBS synthetic side panel: 1x panel set UEBSMSP, 4x levelling units UEBSST and 4x rubber cuffs UGM-SLF.



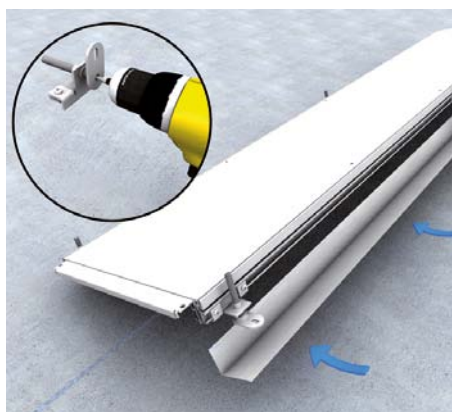
3 | UEBS with tub

Mounting material needed in addition to UEBS with steel plate tub: 1x base tub UEBSMSW and 4x levelling units UEBSST.



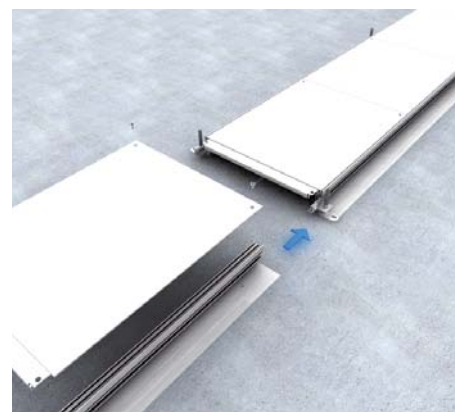
4 | Duct alignment

Measure the duct course according to the approved layout drawing and mark it using a plumb line. Lay out pre-assembled duct according to duct course and marking. Note binding height metre point.



5 | Levelling units / side plate

Insert and pre-position one side panel and two levelling units per duct side sideways into the duct aluminium profile. The individual levelling units can be roughly set to the required height in advance.

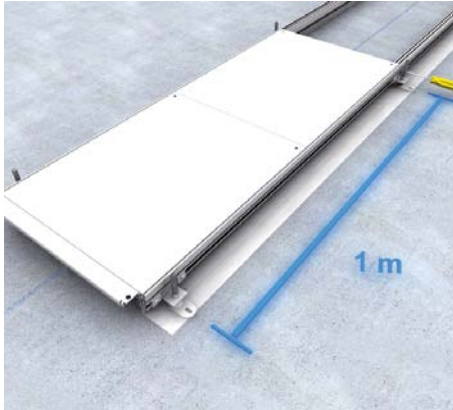


6 | Duct piece assembly

Release end dummy cover of the delivered duct, align ducts and finally push together. Link levelling units and cross beams to the duct parts. Note that the cross beam is tightly screwed to the dummy cover as provided by the factory.

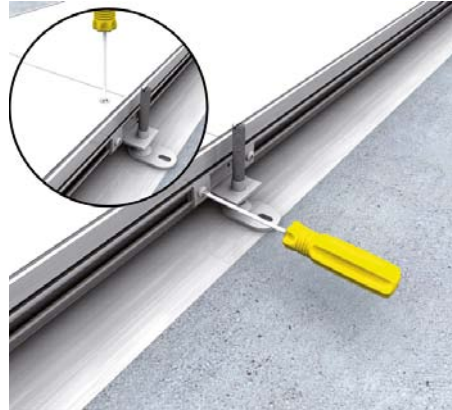
Screed flush duct

Assembly instruction



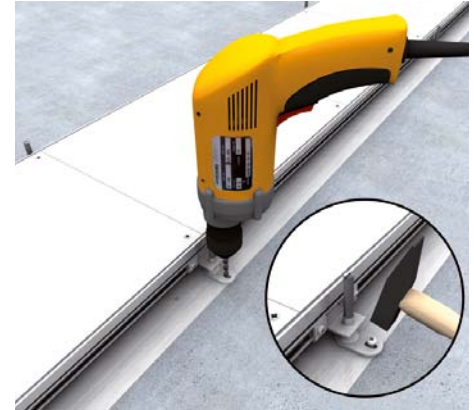
7 | Positioning the levelling units

Position levelling units according to the course of the duct at intervals of one metre and screw them to the aluminium profile. Comply with the levelling unit height of 80 respectively 150 mm. Firmly connect together all metal parts of the duct system.



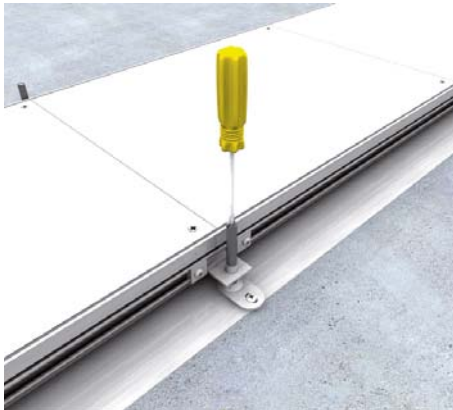
8 | Mounting the duct

Screw levelling units so that they overlap with both duct pieces. While doing so, comply with that the dummy cover is tightly connected with the closest following duct part by means of a cross beam.



9 | Plugging of the levelling foot

Align leveling on the side wall and drill a hole. Fasten levelling feet firmly to the rough concrete using nail plugs.



10 | Adjusting the levelling

Level the completely mounted duct system to the required screed height using a laser or digital tube level. The levelled duct system must not be walked upon or strained in any other way.



11 | Mounting the separating panels

Plug the synthetic separating panels directly into the rough concrete in 1-metre-intervals.



12 | Screed anchor

Latch screed anchor into the duct segment's outer profile. The screed anchors serve as a firm connection between duct and screed, thereby helping to prevent a later fissuring. Four screed anchors per duct unit are included in the delivery.



13 | Shortening the levelling units

If needed the levelling units can be shortened below screed level. All open areas must be masked according to DIN before the application of screed.



14 | Low levelling of 60-100mm

For a floor construction of up to 110 mm, use levelling unit UBSST 80S. The side panel brackets must be turned according to the desired side height. Correspondingly, a levelling height of 60-90 mm respectively of 80-110 mm is possible.

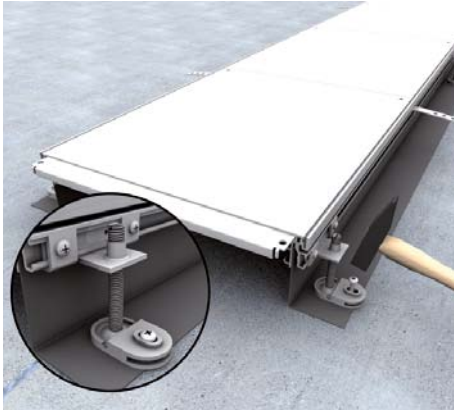


15 | High levelling of 100-150mm

For a floor construction of up to 150 mm, use levelling unit UBSST 150S. The side panel brackets must be turned according to the desired side height. Correspondingly, a levelling height of 100-130 mm respectively of 120-150 mm is possible.

Screed flush duct

Assembly instruction



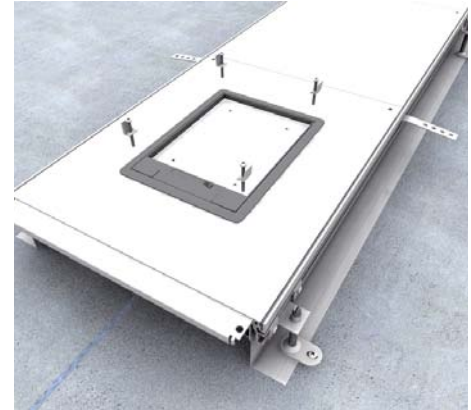
16 | Impact sound decoupling

For an impact sound decoupling of the duct system use synthetic side panels only. Additionally push rubber cuffs over the levelling units. Then mount the two connected components onto the rough concrete using nail plugs.



17 | Tube mounting

When using a floor tube, the required levelling height must be complied with. Select tube type H = 60, 80, 100 respectively 120 mm and push into the duct side profile. The levelling is done after the plugging to the rough concrete.



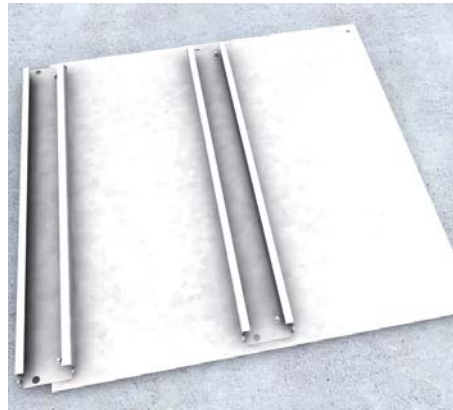
18 | Assembly covers

After the assembly of the duct system, the corresponding dummy covers must be replaced by assembly covers for installation units and adjusted to the duct course. To mount installation units, use special claws UDKSEB with a clamping range of at least 2 mm.



19 | Cross beam

In the course of adjusting the cover sections, the cross beam must be loosened from the dummy cover or assembly cover. The corresponding cover must be shortened, drilled in again and finally screwed into the side profile.



20 | Cross beam B = 500 mm

The 500 mm duct covers have additional cross beams. The cross beams are attached with a distance of 25 cm from one another. An additional duct support is therefore unnecessary.



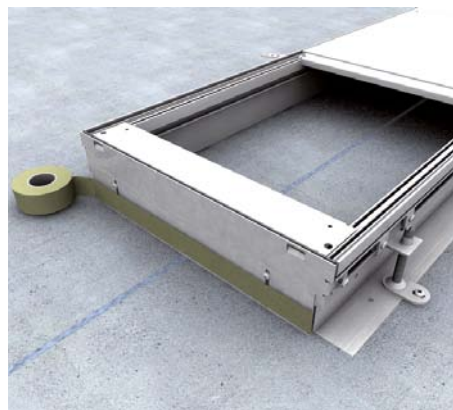
21 | Carpet edge

According to delivery condition, the turnable carpet protection edge is flush with the duct embedded in the screed-flush duct. If needed, it can be turned creating a 3 mm floor cover edge.



22 | Dummy cover

The dummy covers (width B - 6 mm) are delivered with one cross beam that can be screwed on one side, and are to be bolted to the side profile of the duct in offset on the nearest overlapping cross beam with two bolts.



23 | End piece

Insert the end piece sideways into the duct profile and screw tightly together. A height adjustment by 3 mm is possible by means of carpet protection edge. If needed, the lower openings can be masked.

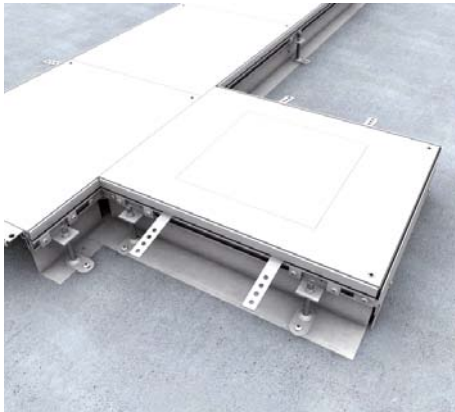


24 | Accessory set for 75 mm height

Notch and burr the side panel of the duct. Bend open side panel of the hollow space floor box along the perforation and insert one mounting sleeve UM between duct and hollow space floor box. Fix hollow space floor box to the rough concrete and insert shuttering unit.

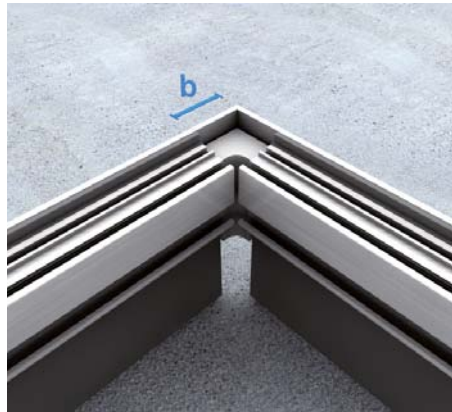
Screed flush duct

Assembly instruction



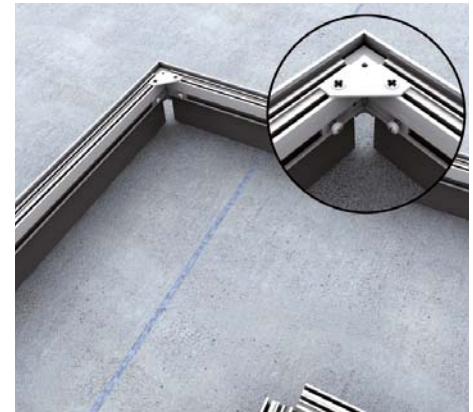
25 | Accessory set for 60-110 mm height

Notch and burr the side panel of the duct. Connect accessory set to the duct using a coupler and affix to the rough concrete. The installation unit can be inserted immediately after the completion of the screed work and the removal of the dummy cover.



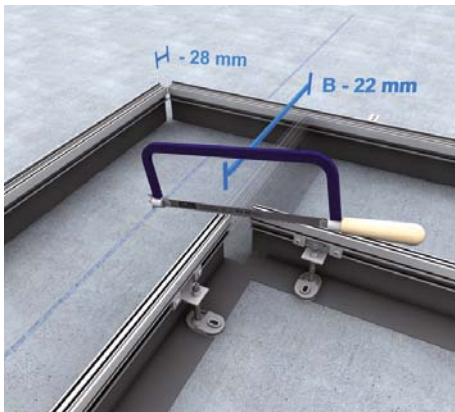
26 | Corner connection

The synthetic corner connection ($b = 26 \text{ mm}$) is for making a formed part during assembly. After cutting the duct profile, insert the connection into it and screw them together using the steel plate corner connection. Depending on the rotating direction the corner connection can be used as an inside or outside corner.



27 | Coupler plate

A coupler plate must be inserted in addition to the corner connection. The plate should be mounted in the corner using the provided screws, thus creating the necessary fastening point.



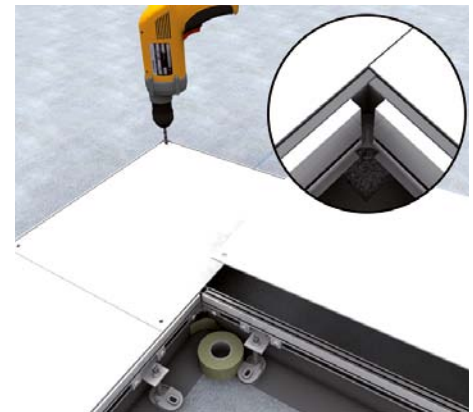
28 | Cutting a 90° bend

In order to create a 90° bend, an aluminium outside profile must be shortened by 28 mm and both aluminium inside profiles by B - 22 mm each, after the laying of the duct. Side panels and dummy covers should be cut as needed.



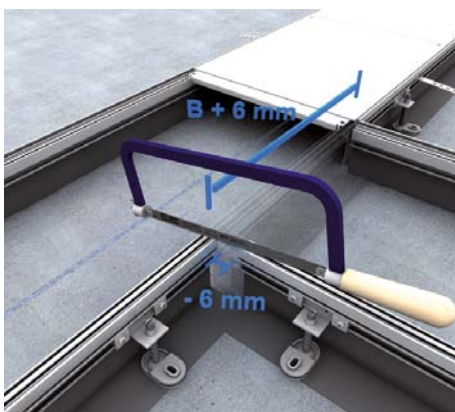
29 | Mounting a 90° bend

Push duct pieces together and link together using the separately supplied bend assembly set. Then screw them together using the corner connection.



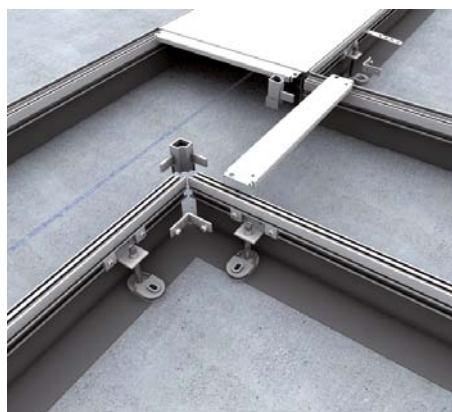
30 | 90° bend final assembly

Cut cover sections and if needed, ream mounting holes. Insert cross beam for support. Slide in carpet edge, 3 mm overlaying in the corners, and mark open areas. Cover and screw duct section.



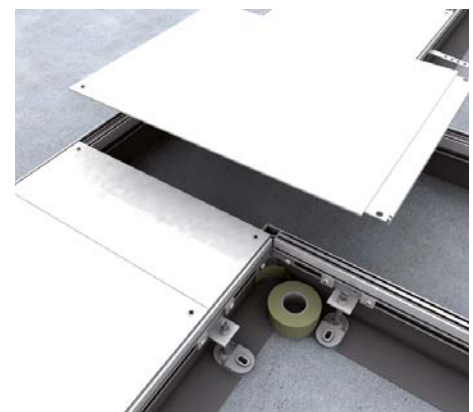
31 | Cutting a T-junction

In order to create a T-junction after the laying of the duct, the duct must be notched end-to-end on one side by B + 6 mm. Shorten the aluminium profiles of the incoming duct on both sides by 6 mm each. Cut side panels and dummy covers.



32 | Mounting a T-junction

Push duct pieces together and link together using the T-junction assembly set included in the delivery. Then screw them together using the corner connection. In order to create an intersection, use two T-junction assembly sets.



33 | T-junction final assembly

Cut cover, ream mounting holes and insert cross beam for support. Slide in carpet edge, making sure that they are overlaying 3 mm in the corners and mark open areas. Cover and screw duct section. Do not lay dummy cover joints in junction areas.

Screed flush duct

Assembly instruction



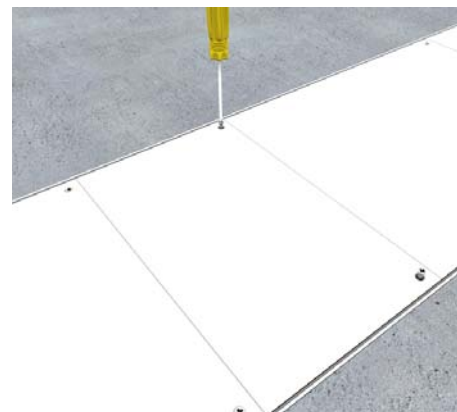
34 | Dummy cover segment

Cut the cover segment (L < 500 mm) to the required length.



35 | Dummy cover segment

Create additional drill holes with reduction for countersunk head screws.



36 | Dummy cover segment

Fasten the dummy cover segment with additional countersunk head screw with the side profile.



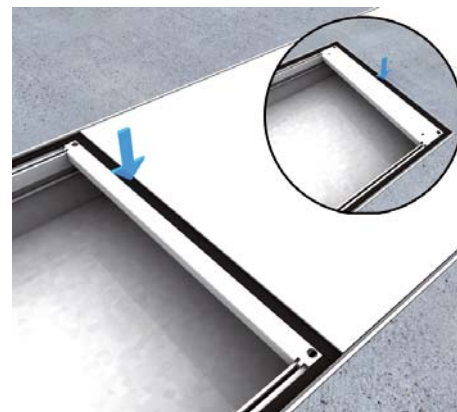
37 | UEBS Duct system for wet-maintenance linoleum covers

First, completely remove the rubber insert (UEBSPGD) from the side profile of the duct.



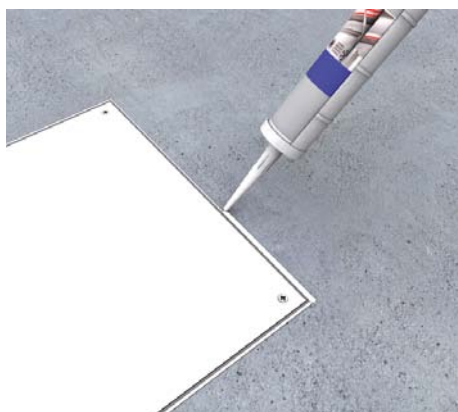
38 | UEBS Duct system for wet-maintenance linoleum covers

Next, glue the rubber seal (UGDB15-R300 1.8) onto the side profile in longitudinal direction, covering the entire area of the duct.



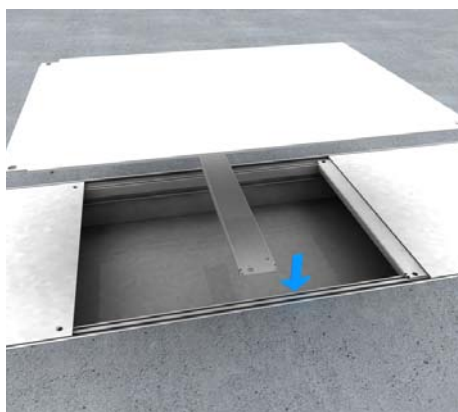
39 | UEBS Duct system for wet-maintenance linoleum covers

In addition, glue the transverse cross bar (UEBSQT) and the end piece (UEBSES) flush to the rubber seal.



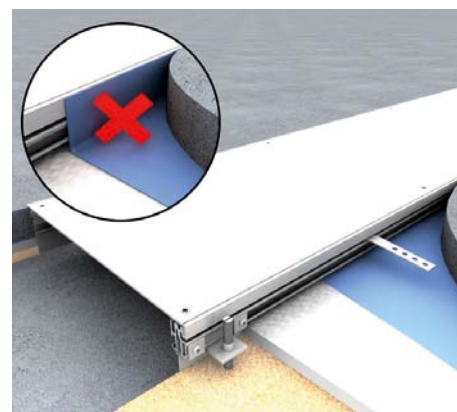
38 | Sealing of the duct system

Finally, seal all open areas of the duct system as well as the assembly sets using silicone.



41 | Transverse cross bar

If there is an increased load, an additional transverse cross bar must be inserted centrally under the dummy cover.



40 | Screed work

Pay attention to a good screed compaction and conciseness in order to avoid cracks in the screed. Apply screed directly to the aluminum profile of the channel. Don't use insulation strips for decoupling.

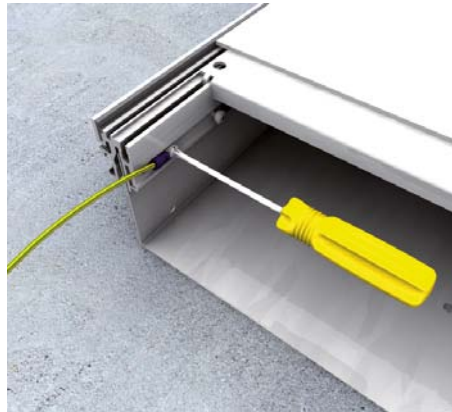
Screed flush duct

Assembly instruction



41 | Duct tub grounding

Align both base tubs, then firmly connect together using the side connections. Thereby both parts and the grounding connector are included in the potential equalisation.

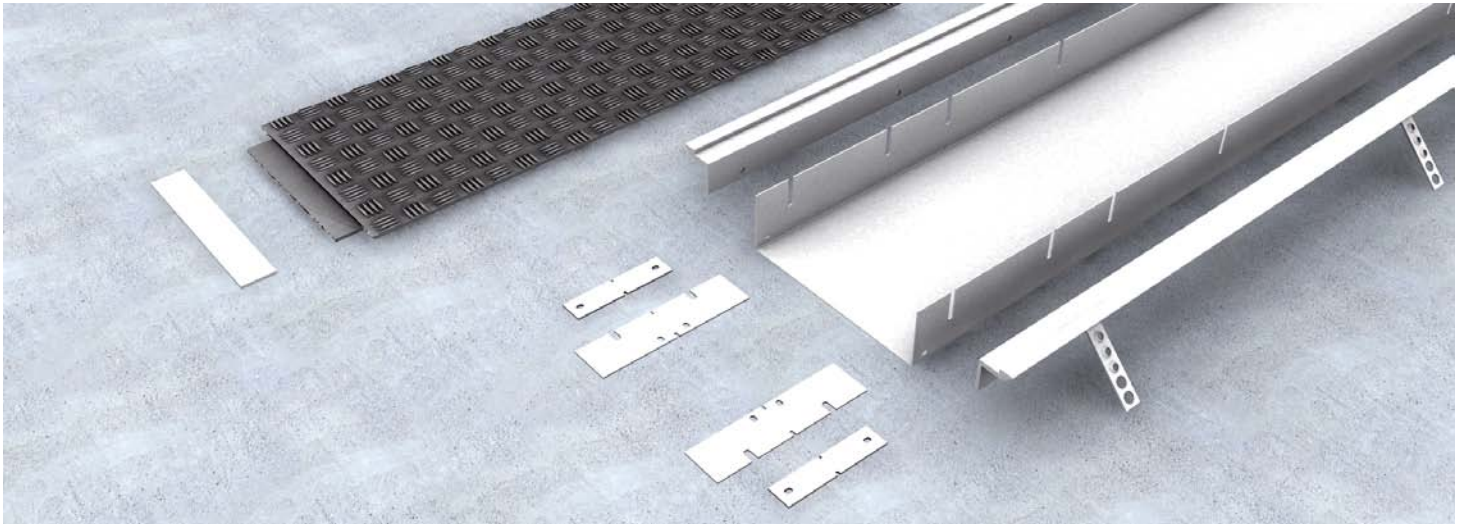


42 | Duct grounding

The ground conductor terminal can be included in the grounding measure by means of the grounding connector included in the delivery. One grounding connector per duct unit is included in the delivery.

Screed flush heavy-duty duct

Assembly instruction



The screed-flush heavy duty duct consist of a heavy duty duct bottom piece UBK, three heavy duty dummy covers UBKD, two side profiles UBKPR, and of mounting and connecting material. These parts are contained in the shipment as individual parts. The duct can be installed in the widths of 200, 300 and 400 mm with a levelling height of 100 to 200 mm and can bear loads of 5 to 25 kN.



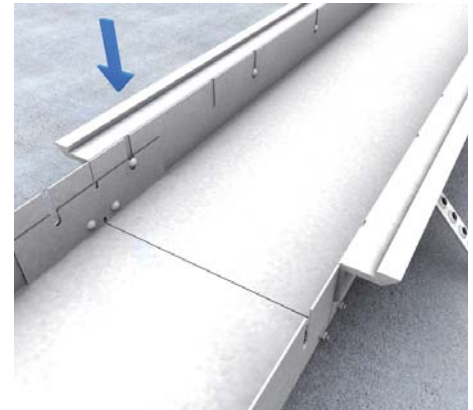
1 | Duct alignment

Measure the duct course according to the approved layout drawing and mark it using a plumb line. Lay duct bottom piece UBK according to duct course and marking and align in dead centre.



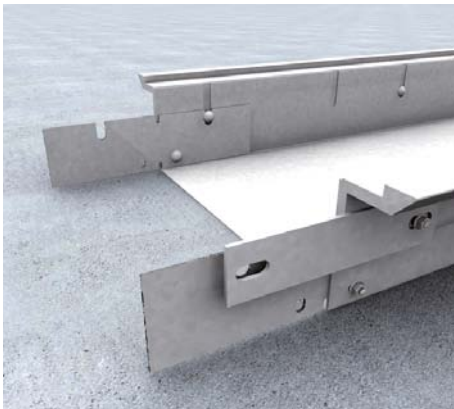
2 | Inside couplers

Push duct bottom pieces together and screw together using inside couplers UBKPV.



3 | Side profile

Insert side profile UBKPR into the trenches of the duct bottom piece from the outside using pre-assembled screws.



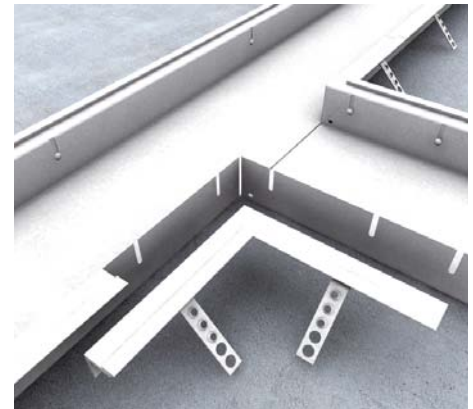
4 | Coupler

Bolt duct bottom piece, side profile, and inside couplers together at the joints using couplers UBKPRV.



5 | Fixing

Mount duct to the rough concrete in two places per length using plugs.

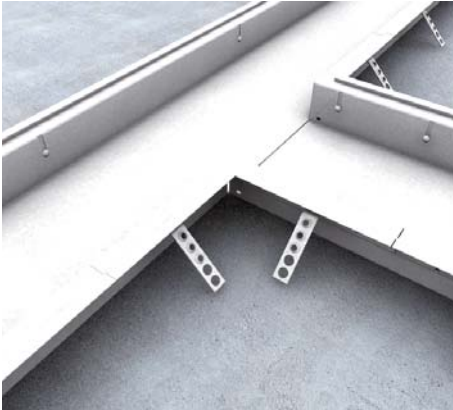


6 | Inward profile bend

In order to create a branch, notch the duct bottom piece as well as the side profile. Then insert two inward profile bends UBKIB.

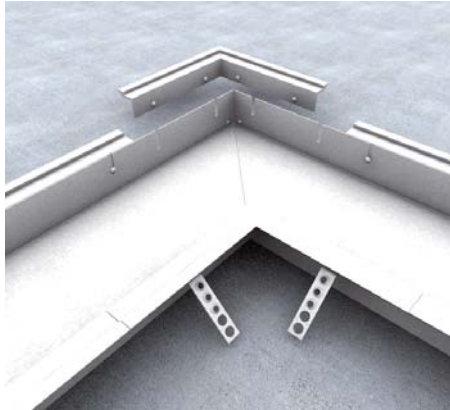
Screed flush heavy-duty duct

Assembly instruction



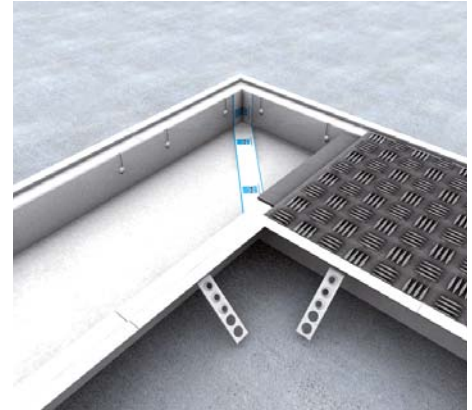
7 | Shortening a T-junction

Push the branch duct bottom piece to the notch, shorten the side profile by 0,3 m and hinge it behind the inward bend.



8 | Outward profile bend

Cut duct bottom pieces to length and mitre. Then hinge profile inward and outward bends (UBKAB). The outside curve is to be mounted on site using connectors UBKPRVE.



9 | T-junction final assembly

Push the branch duct bottom piece to the notch and cut the dummy cover UBKD as well as the profile.



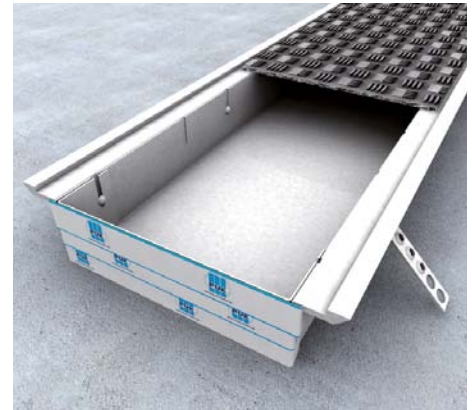
10 | End piece

Hinge end piece UBKEB into duct bottom piece and align.



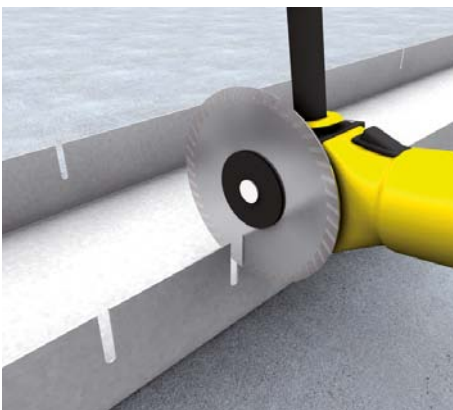
11 | Spacer

Before applying screed, insert one spacer UBKDB per duct metre. The distance plate is to be removed after the hardening of screed.



12 | Dummy cover

Mask all open areas and insert dummy covers only after the application of screed.



13 | Slotting

If needed, add slots to the duct bottom piece, then burr and galvanise the joints.



14 | Adjust levelling

Level duct system to the required screed height using a laser or digital tube level.

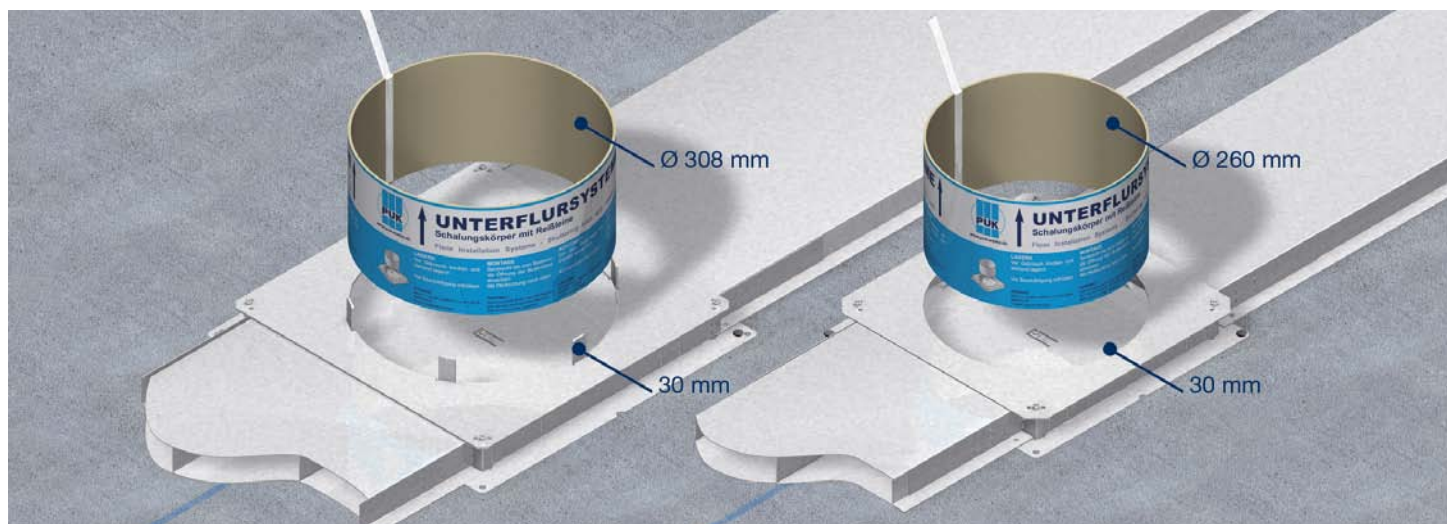


15 | Levelling

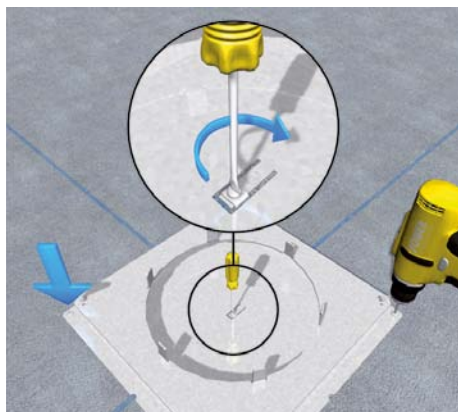
Height levelling over 35 mm is possible due to the side slot in the duct bottom piece.

Hollow space floor box, round

Assembly instruction

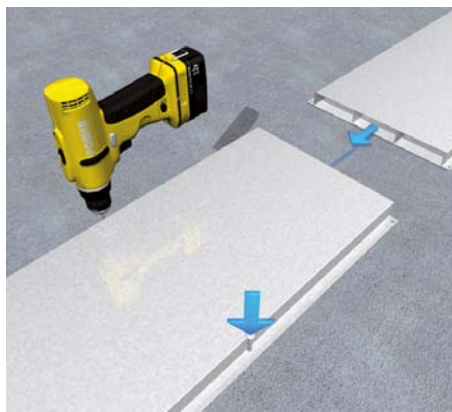


Hollow space floor box for round installation units Ø 305 mm or Ø 258 mm and underfloor ducts of up to 250 or 350 mm width with heights of 28/38/48 mm. Comply with minimum screed covering of 35 mm.



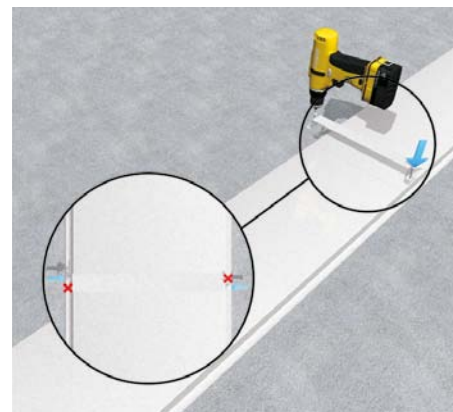
1 | Hollow space floor box

Align floor box dead centre to the duct course. Fasten on the slab ceiling and screw the earthing lug tight. Bend open side walls at the perforation. Set one floor box per change of direction in the duct system.



2 | Duct

Cut duct, lay up and align. Burr and galvanize cutting edges. Fasten with two nail plugs through the holes in the duct's side notch. Push duct to dead stop into the box.



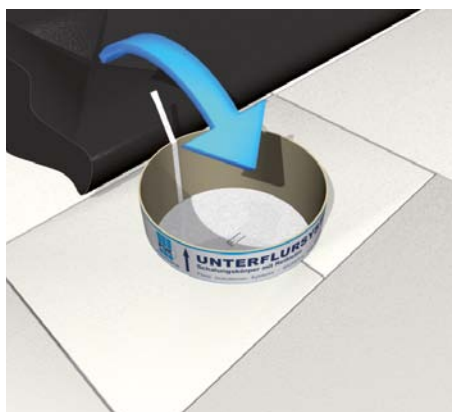
3 | Clip

Align duct segments flush and push together. Use one clip per duct joint. Fasten overlapping with two nail plugs. Factor in potential equalization when inserting plugs.



4 | Inserting the shuttering pipe

Insert shuttering pipe straight from the top into the floor box opening. Floor box and shuttering pipe make one mounting unit. Mask all openings in the duct system. Apply insulation flush to duct system and to shuttering pipe.



5 | Screed work / Subsonic noise insulation

The shuttering pipe must be sprayed with formwork oil. The underfloor system must be insulated against subsonic noise. Mask the shuttering pipe with foil. Foil thickness must be < 2 mm. Apply screed neatly to the shuttering pipe.

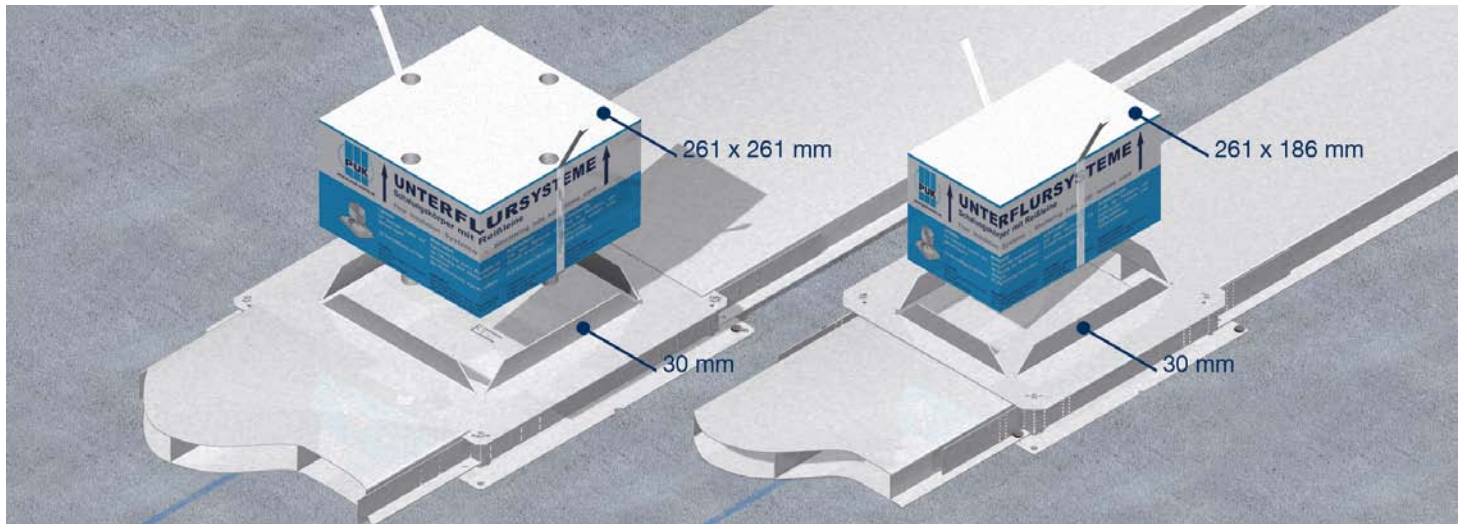


6 | Removal of shuttering pipe

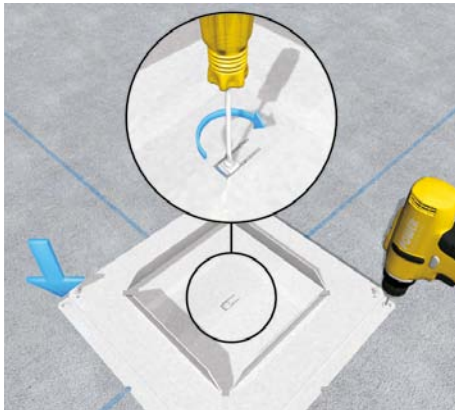
Remove shuttering pipe with the release cord from the hardened screed. Process floor cover to the cleaned assembly opening (Ø 260 mm, Ø 308 mm).

Hollow space floor box, quadrangular

Assembly instruction

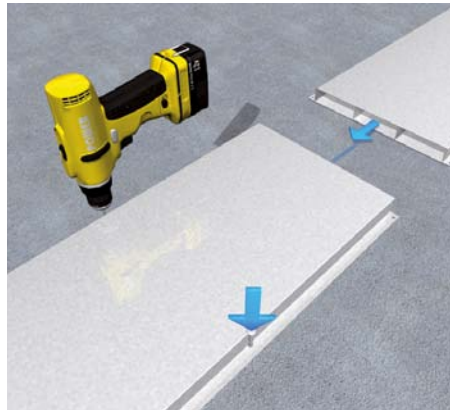


Hollow space floor box for quadrangular installation units 258 x 258 mm or 258 x 184 mm and underfloor ducts of up to 250 or 350 mm width with the heights 28/38/48 mm. Comply with minimum screed covering of 35 mm.



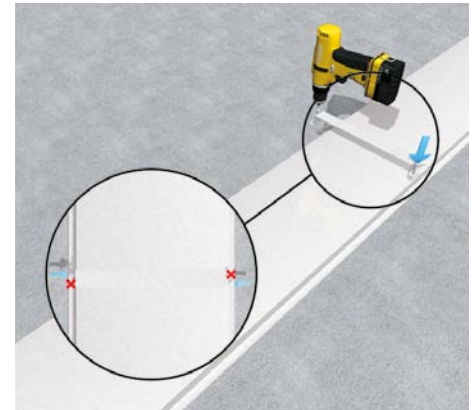
1 | Hollow space floor box

Align floor box dead centre to the duct course. Fasten on the raw ceiling and screw the earthing lug tight. Bend open side walls at the perforation. Set one floor box per change of direction into the duct system.



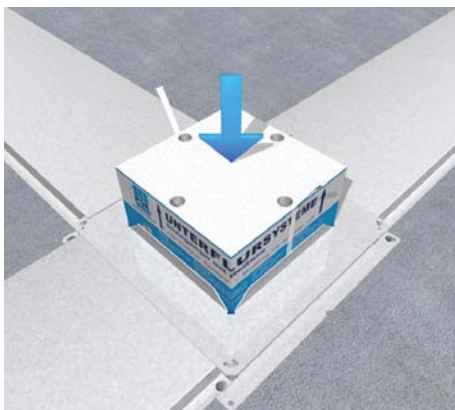
2 | Duct

Cut duct, lay up and align. Burr and galvanize cutting edges. Fasten with two nail plugs through the holes in the duct's side notch. Push duct to dead stop into the box.



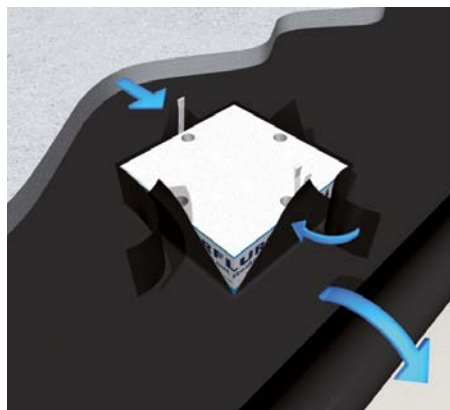
3 | Clip

Align duct segments flush and push together. Use one clip per duct joint. Fasten overlapping with two nail plugs. Factor in potential equalization when inserting plugs.



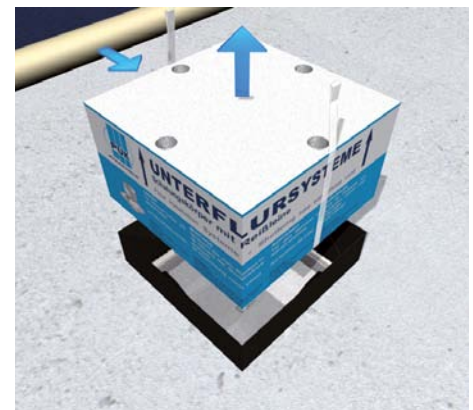
4 | Inserting the shuttering unit

Insert shuttering unit straight from the top into the floor box opening. Floor box and shuttering unit make one mounting unit. Mask all openings in the duct system. Apply insulation flush to duct system and to shuttering unit.



5 | Screed work / Subsonic noise insulation

The shuttering unit must be sprayed with formwork oil. The underfloor system must be insulated against subsonic noise. Mask the shuttering unit with foil. Foil thickness must be < 2 mm. Apply screed neatly to the shuttering unit.

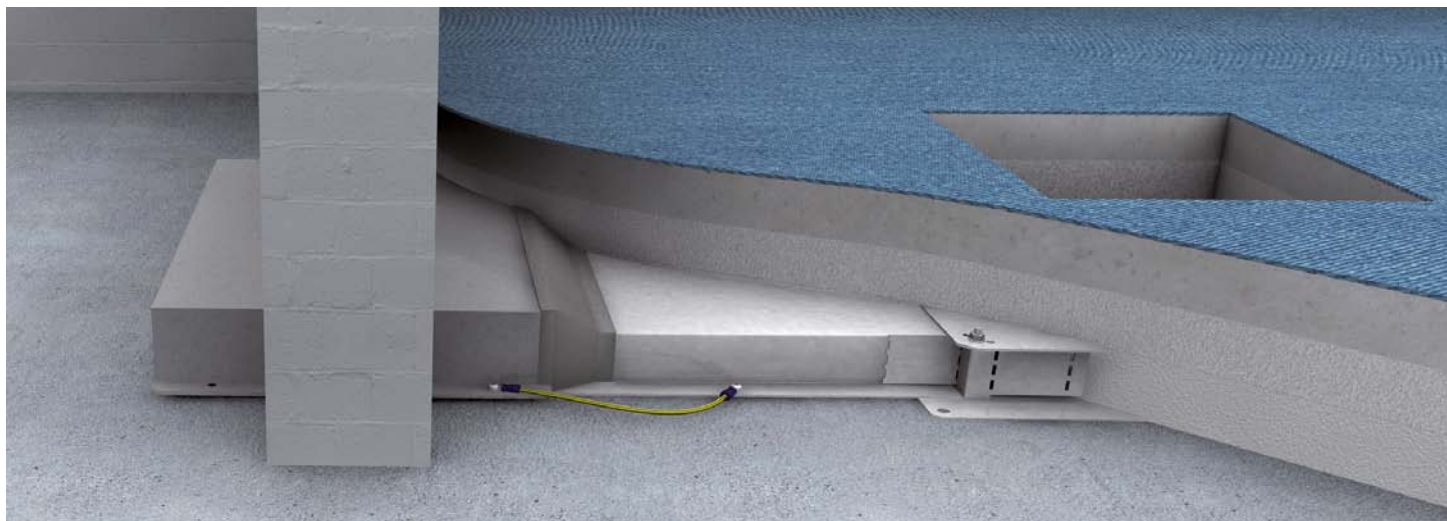


6 | Removal of shuttering unit

Remove shuttering unit with the release cord from the hardened screed. Process floor cover to the cleaned installation opening (261 x 261 mm, 261 x 186 mm).

Fire protection for screed-covered underfloor systems

Assembly instruction



Fire stop (cable seal WD90, Wichmann system) for screed-covered underfloor ducts with a width of 350 mm, available in the heights of 28, 38 and 48mm. Other sizes upon request. For the installation in fire protection walls of fire resistance grading S90.



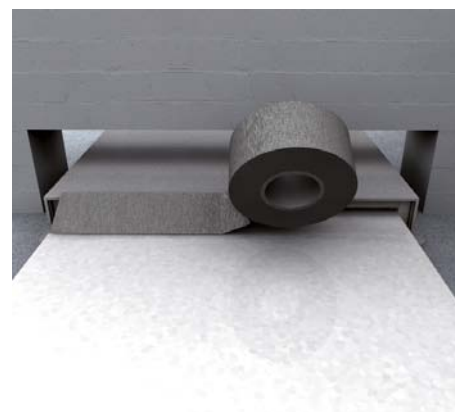
1 | Scope of delivery

The fire stop shipment includes an underfloor cable box and a quality label. Two EasyFoam smoke protection plugs can be ordered in addition to the content of delivery.



2 | Positioning the cable box

Place the cable box into the wall opening. The box must not protrude from the wall by more than 8,5 cm.



3 | Sealing

Push the screed-covered underfloor ducts flush to the fire stop and seal with rubber band. Ducts must not be led through the fire stop.



4 | Plastering

Thoroughly plaster into wall depth using mineral mortar or joint filling made of hard cement.



5 | Mounting the steel unit

Firmly plug the three-sided steel plate housing to the fire stop on the raw floor, allowing for an earthing connection.



6 | Inspection opening

In order to create an inspection chamber or an installation opening, mount hollow floor box to the underfloor duct and then insert shuttering unit.

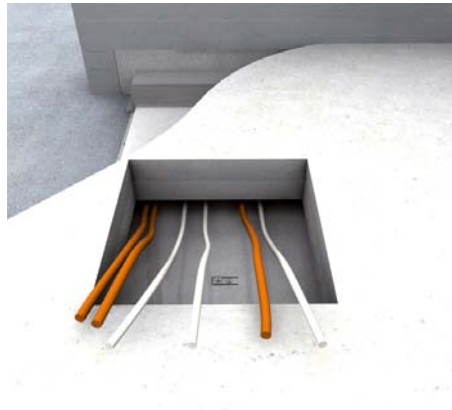
Fire protection for screed-covered underfloor systems

Assembly instruction



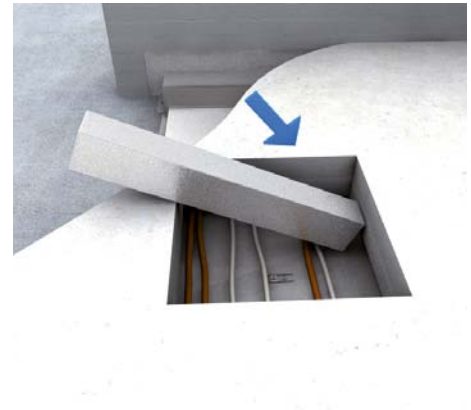
7 | Applying screed

After the completed mounting of the screed-covered duct system, apply sealing, impact noise insulation and screed.



8 | Cable routing

Lay cables in screed-covered underfloor duct and fire stop. The ground below the partition must be even and not flammable.



9 | Smoke control

Place EasyFoam smoke protection plugs over the entire width of hollow floor box.



10 | Adjusting the size

Cut Easy-Foam smoke protection plugs according to the cable sizes.



11 | Sealing

All remaining openings must be sealed using silicone or EasyFoam fire protection foam.



12 | Quality label

Fill in quality label and fix to the hollow floor box. Hand in declaration of compliance together with permit.

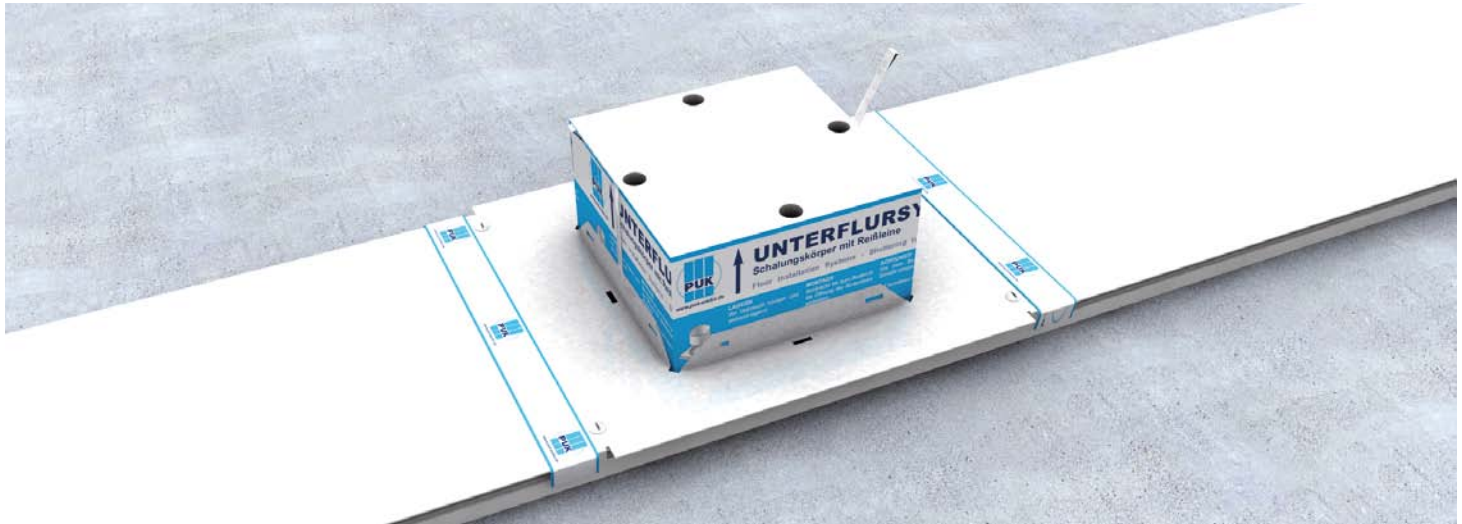


13 | Fire protection components

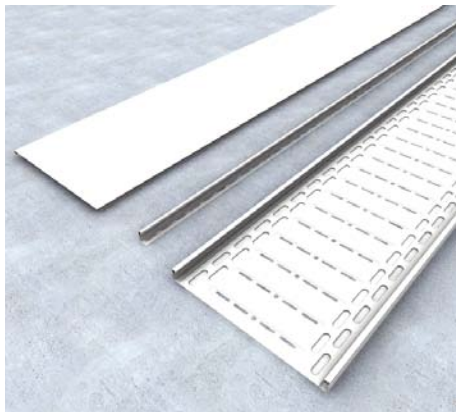
The fire stop must be installed according to DIN 4102-4 in brickwork of up to 10cm thickness and sealed on both sides of the nearest hollow floor box using EasyFoam smoke protection plugs. The underfloor fire stop has a capacity of up to 100% for holding cables. All cables can be led through the fire stop without diameter restrictions, as well as glass fibre cables, hollow plastic pipes (up to a diameter of 50 mm) and single control cables made of steel, copper or plastic (up to 15 mm diameter).

Screed-covered cable duct system

Assembly instruction

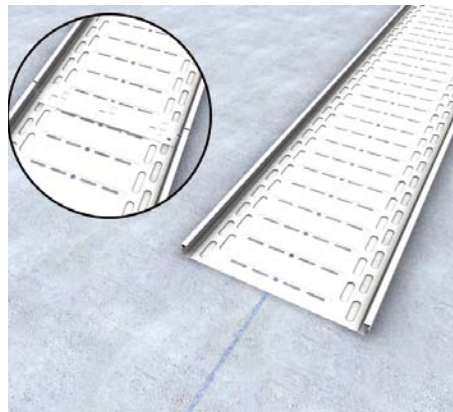


Open, two- respectively three compartment cable duct UKR in the nominal widths $B = 300, 400$ and 500 mm, made of steel sheet with length L of 3000 mm. In heights of $35, 60, 85$ and 110 mm. Loading capacity up to $0,75$ kN. Consisting of a bottom piece with a barrier strip and a separate top piece.



1 | UKR

The screed-covered cable duct consists of a duct bottom piece UKR, a cable duct dummy cover UKD and one, respectively two barrier strips UKTR, including the necessary material for mounting and connecting.



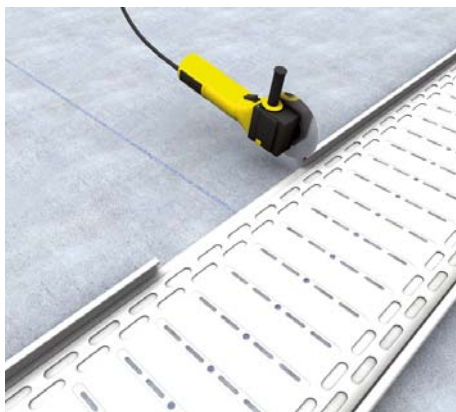
2 | Duct alignment

Measure the duct course according to the approved layout drawing and mark it using a plumb line. Lay bottom piece according to duct course and marking and align in dead centre. Cut ducts and push flush together using the coupler plate VB.



3 | Fixing

Mount duct to the rough concrete in one place per length using plugs.



4 | Junction

In order to create a junction, notch the duct bottom piece according to the width of the duct branch.



5 | Barrier strip

Always fasten barrier strips UKTR symmetrically to the rough concrete using plugs once per metre.

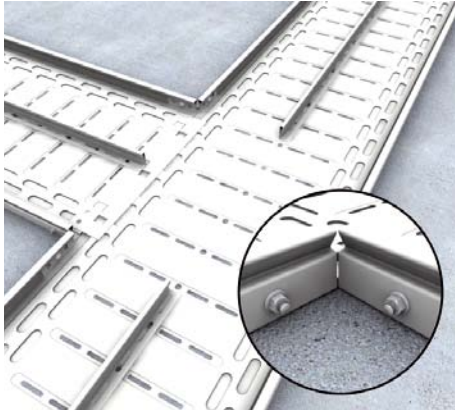


6 | Fastening of barrier strip

Barrier strips must be mounted in parallel offset of the duct.

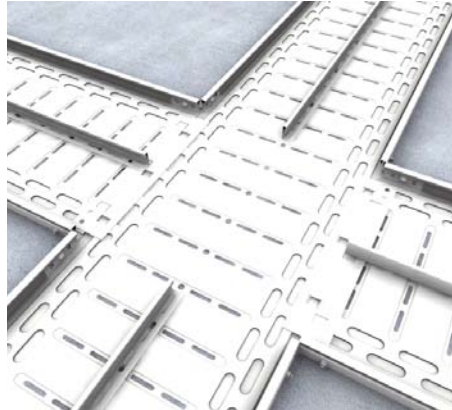
Screed-covered cable duct system

Assembly instruction



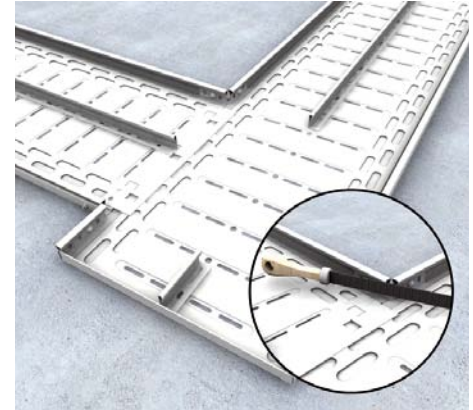
7 | Fitting components

T-extensions, junctions, and 90°bends can be created by notching the duct. Screw couplers together on the inside.



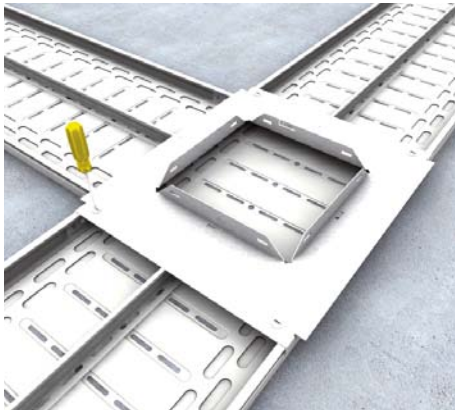
8 | Duct segments

The duct segments are connected by means of extension accessories UKAZ.



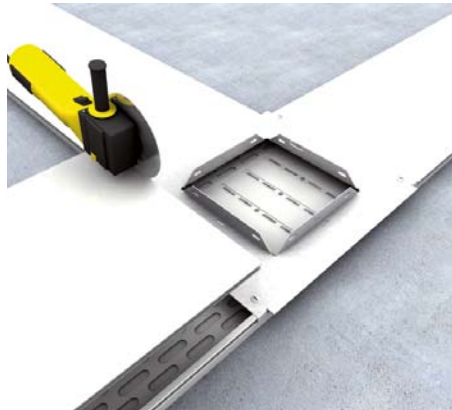
9 | Final assembly of fitting components

The barrier strips must be cut flush at the notches of the extensions and junctions. Trim the interfaces neatly and cold-galvanise.



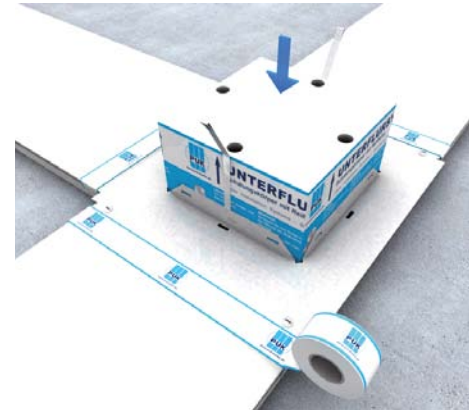
10 | Assembly cover fitting component

The levelled assembly covers UKDA are mounted to the duct using turning bolts. In case of a subsequent removal of the cover, mark position for the cable pull.



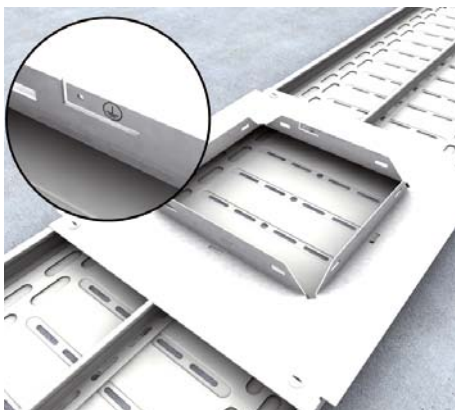
11 | Dummy covers

Cut dummy covers UKD accurate to measurement, place on the duct and then latch in.



12 | Shuttering unit

Insert shuttering unit straight, arrow pointing up, into the opening of the assembly cover. All open areas must be masked according to DIN before applying the screed.



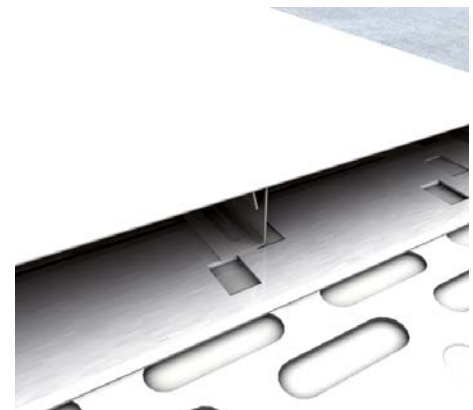
13 | Assembly cover

The assembly covers UKDA are levelled dead centre in duct course and mounted to the duct using turning bolts. All conductive parts must be considered in the potential equalisation.



14 | Duct assembly

Mount duct bottom piece and dummy cover on parallel offset.

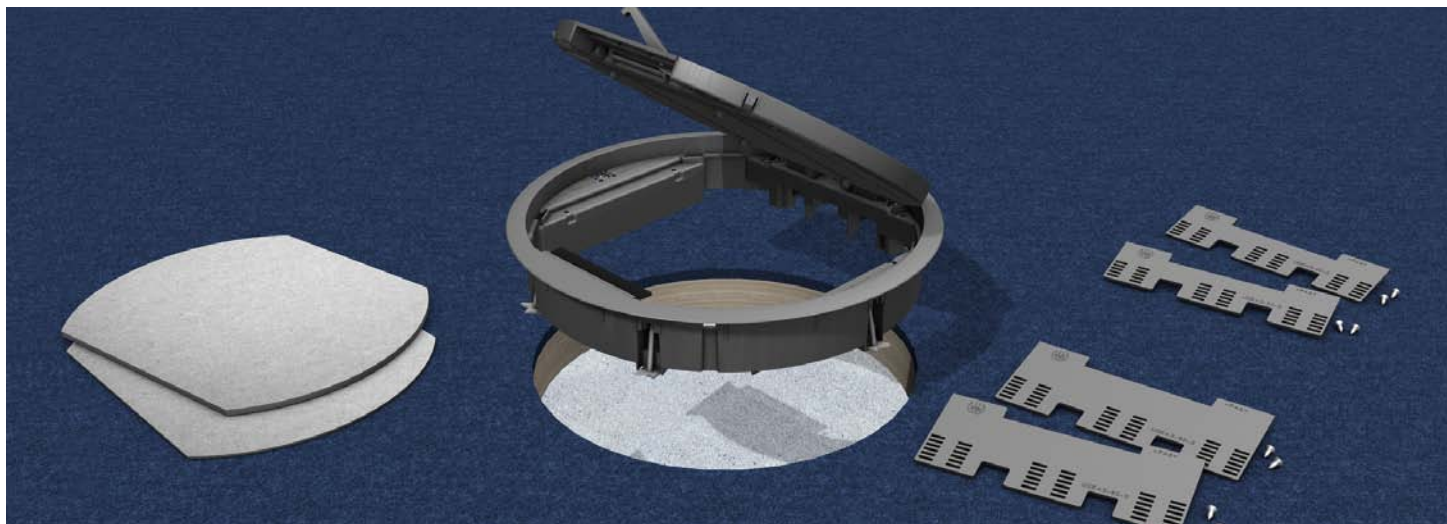


15 | Assembly opening

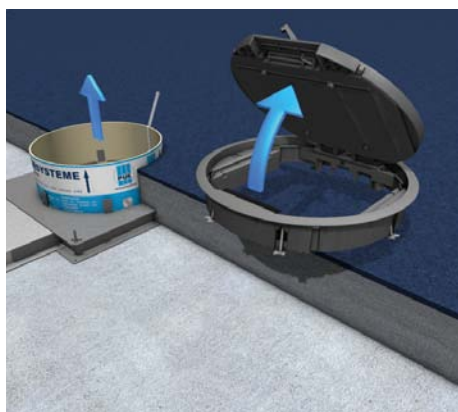
Barrier strips must not extend into the assembly opening, but must end 1-2 mm before.

Brush installation units made of plastic, round

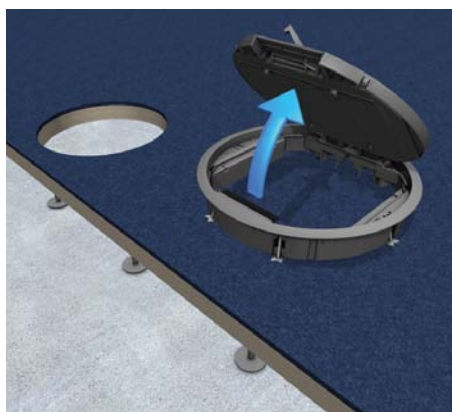
Assembly instruction



Round installation unit with a brush cable outlet, external diameter of 305 mm, for installation of up to three device containers. For floor cover depths of 10, 8, 5, and 3 mm. Lock-in leads of 50 or 80 mm needed for complementation.



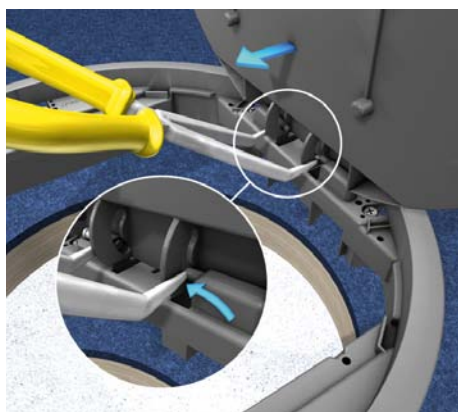
1 | Screed floors
In case of a screed-covered system, remove shuttering tube and insert installation unit directly into the installation opening.



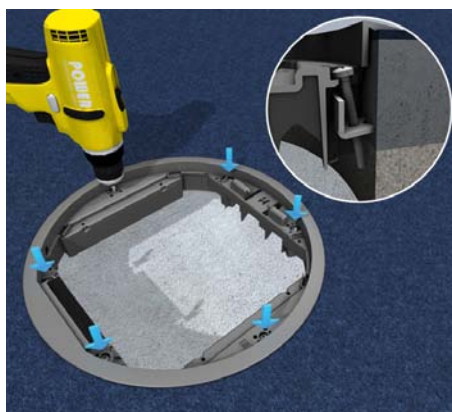
2 | Hollow floors and raised floors
For hollow or raised floors insert installation unit directly into the installation opening.



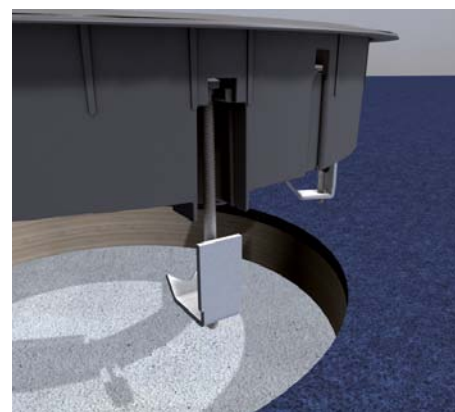
3 | Hinged cover mechanism
Open cover completely, press lug down with a screwdriver while moving the hinge to the left at the same time.



4 | Hinged cover removal
Press hinge together using pliers until the lugs snap out of the frame. Remove cover towards the front.



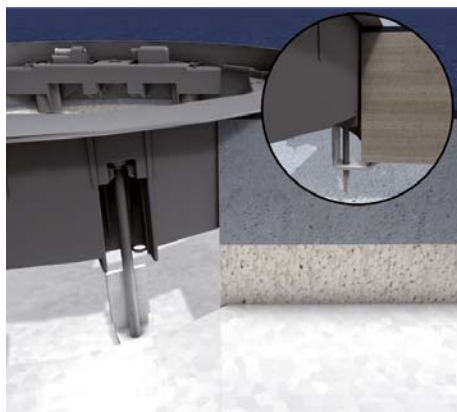
5 | Fastening the installation frame
Insert frame into installation opening from the top and tighten the pre-assembled claws with a crosshead screw. Check to ensure that the frame fits tightly.



6 | Claws
Custom model applications require the use of claw UDKS 40-80. If that is the case, the pre-assembled claws are removed and replaced. Turn claw body so that the frame can be inserted from the top.

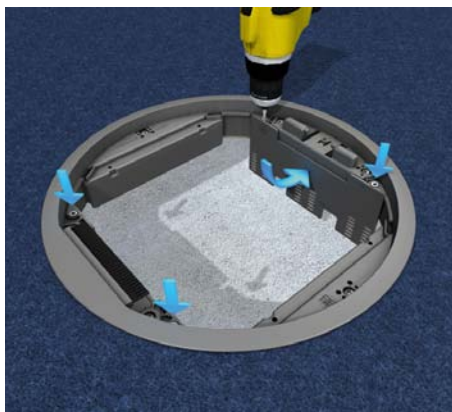
Brush installation units made of plastic, round

Assembly instruction



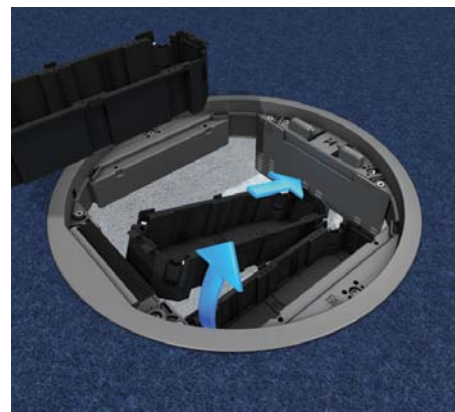
7 | The use of claws

The claws UDKS 40-80 stretch under the raised floor panel, into the screed or into the cover plate of the floor box.



8 | The mounting of lock-in leads

The separately delivered lock-in leads can be inserted into the installation unit from the top and tightly screwed. For a flat installation the 50 mm lock-in lead must be used.



9 | Inserting the device cup

Latch the device cup as deeply into the lock-in lead as possible.



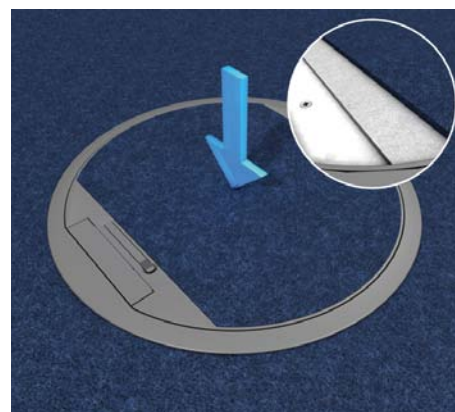
10 | Lock-in leads

Depending on the installation situation, lock-in leads of heights either 50 mm and 80 mm can be chosen. Device cups can be gradually lowered by up to 30 mm.



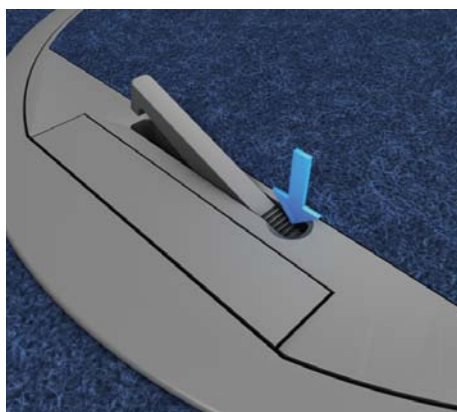
11 | Releasing the device cup

Insert screwdriver or mounting lever between frame and device cup. Release lugs on the side individually and remove device cup.



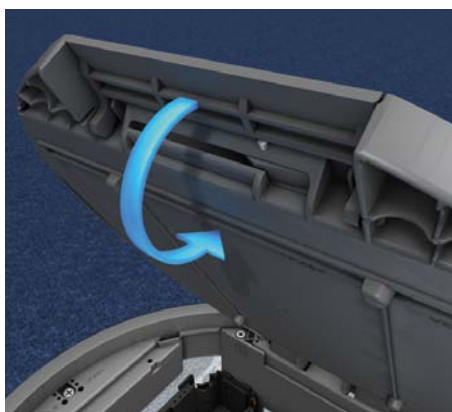
12 | Floor cover in hinge cover

After replacing the hinge cover, leave cover open in locking position. Cut floor cover to no more than 10 mm from its precise fit and glue onto the steel reinforcement. Optionally, cover inlays are available of 2 mm or 5 mm thickness.



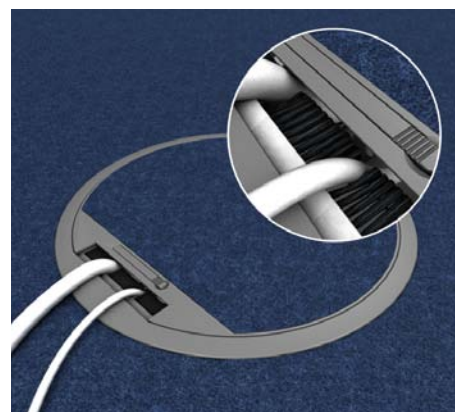
13 | Opening lever

Operate self-locking opening lever behind the cable outlet.



14 | Cable connection flap

Pan cable connection flap by 180° and latch it in.

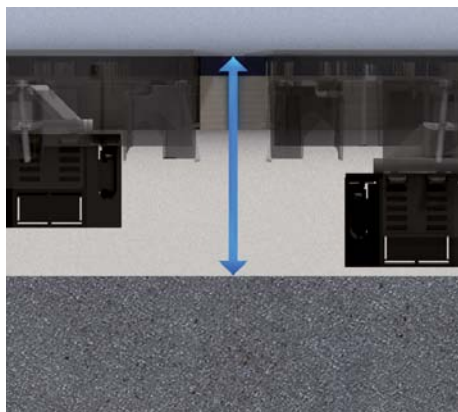


15 | Brush cable outlet

Lead out cables through the open brush cable outlet.

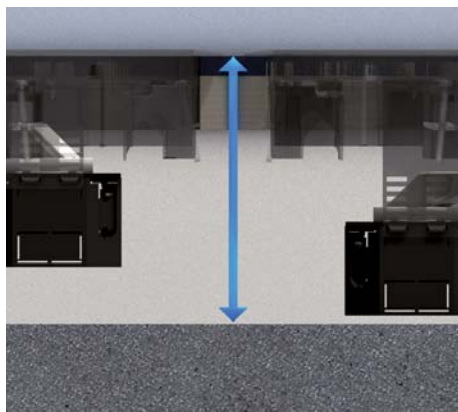
Brush installation units made of plastic, round

Assembly instruction



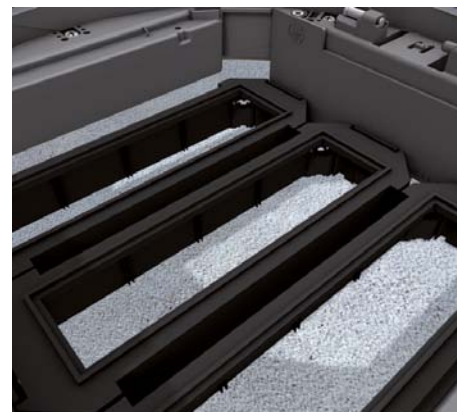
16 | Minimum installation height

Minimum installation height: 89 mm when using a 50 mm lock-in lead, respectively 109 mm when using a 80 mm lock-in lead, and in connection with coupler plugs up to H = 35 mm.



17 | Maximum installation height

Maximum installation height: 109 mm when using a 50 mm lock-in lead, respectively 134 mm when using a 80 mm lock-in lead.



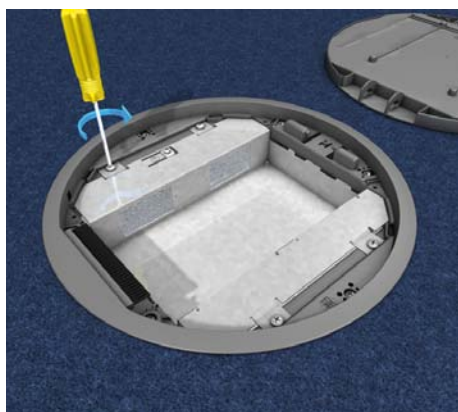
18 | The use of UG45

The device cup UG45-4 is suitable for using installation devices measuring 45 x 45 mm or 45 x 22,5 mm. Minimum installation height: 82 mm when using the 50 mm lock-in lead, respectively 102 mm when using the 80 mm lock-in lead and in connection with coupler plugs up to H = 35 mm.



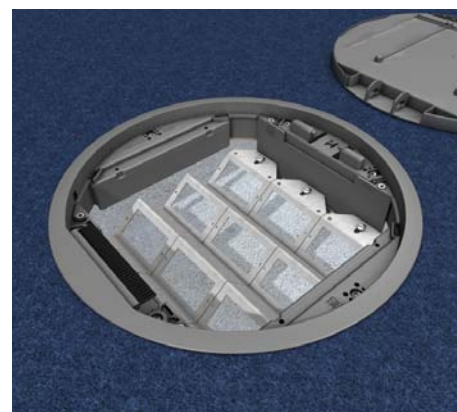
19 | The use of UG3

To achieve an even flatter installation depth, use our newly developed device cup UG3. Minimum installation height: 82 mm when using a 50 mm lock-in lead, respectively 102 mm when using an 80 mm lock-in lead and in connection with coupler plugs up to H = 35 mm.



20 | Device insert

Place device into the installation unit from the top and tighten to the frame using four threaded screws. Minimum installation depth: 63 mm. Suitable for maximum two double sockets and up to six data modules. Install installation technology using boards.

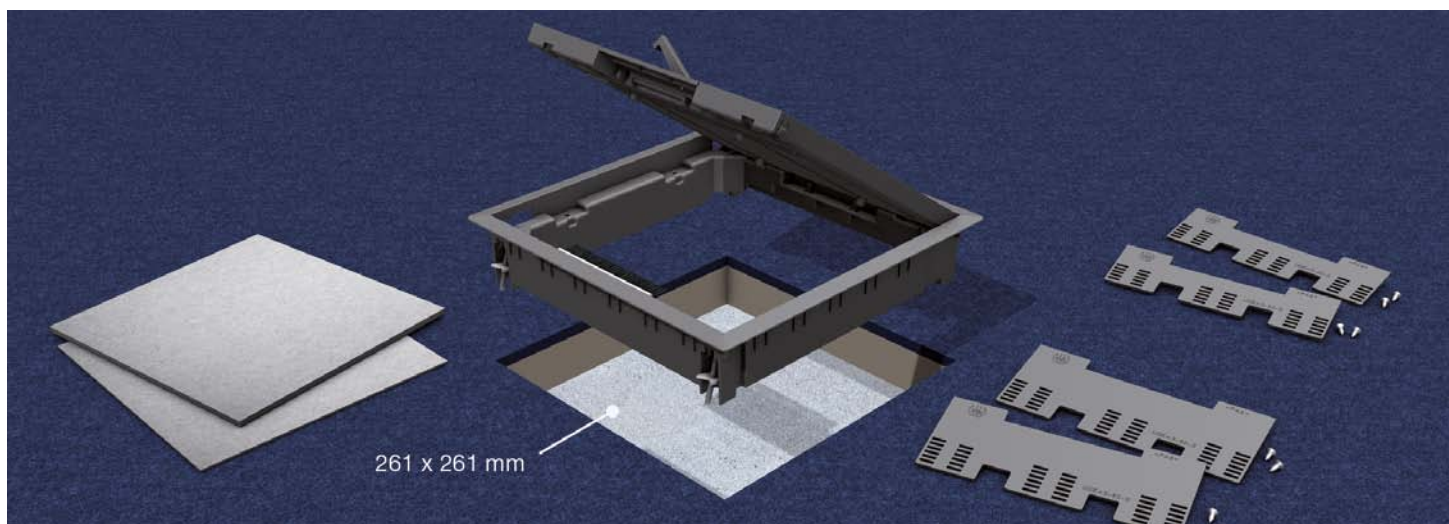


21 | Data device carrier

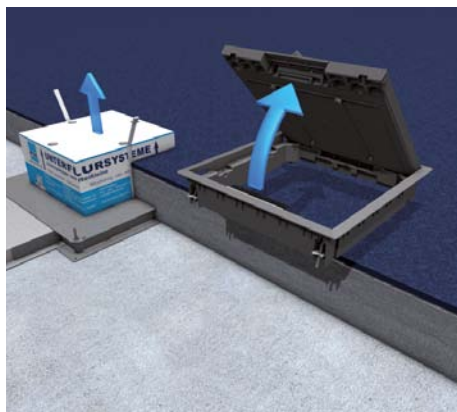
Up to nine data modules can be installed in the data device carrier using boards in the installation unit. Minimum installation height: 96 mm when using a 50 mm lock-in lead, respectively 116 mm when using an 80 mm lock-in lead set. Use the lock-in lead considering the bending radius.

Brush installation units made of plastic, quadrangular

Assembly instruction

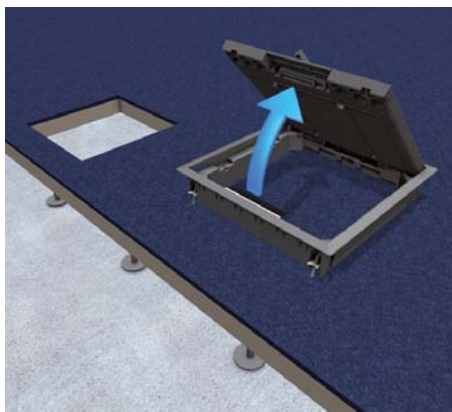


Quadrangular installation unit with a brush cable outlet and external dimensions of 280 x 280 mm for the installation of up to three device cups. For floor cover depths of 10, 8, 5, and 3 mm. Lock-in leads of 50 or 80 mm needed for complementation.



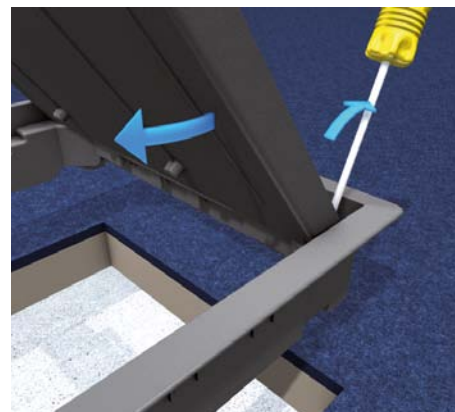
1 | Screed floors

In case you chose a screed-covered system remove shuttering field and insert installation unit directly into the installation opening.



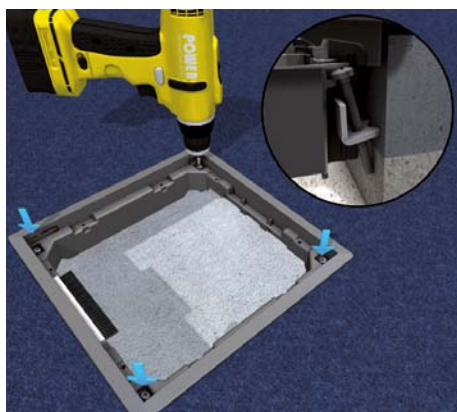
2 | Hollow floors and raised floors

For hollow or raised floors insert installation unit directly into the installation opening.



3 | Hinged cover removal

Open cover completely, pull firmly to the front on the right and release from the hinge using a screwdriver.



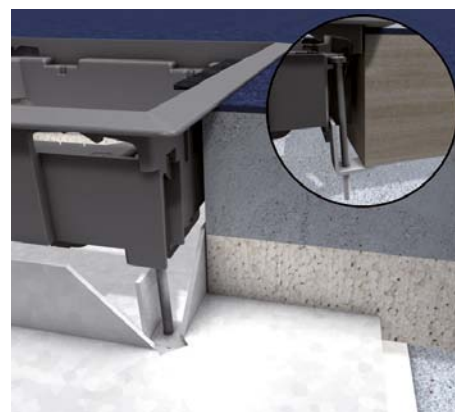
4 | Fastening the installation frame

Insert frame into installation opening from the top and tighten the pre-assembled claws with a crosshead screw. Check to ensure the frame fits tightly.



5 | Claws

Custom-made applications require the use of claw UDKS 40-80. If that is the case, the pre-assembled claws are removed and replaced. Turn claw body so that the frame can be inserted from the top.

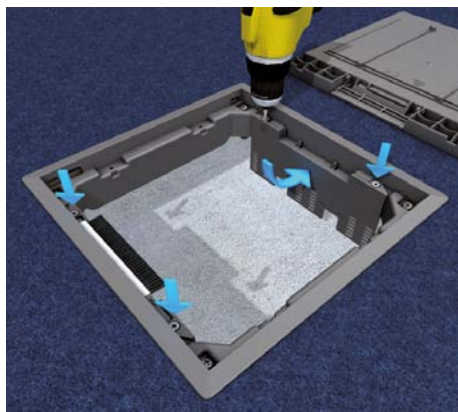


6 | The use of claws

The claws UDKS 40-80 stretch under the raised floor panel, into the screed or into the cover plate of the floor box.

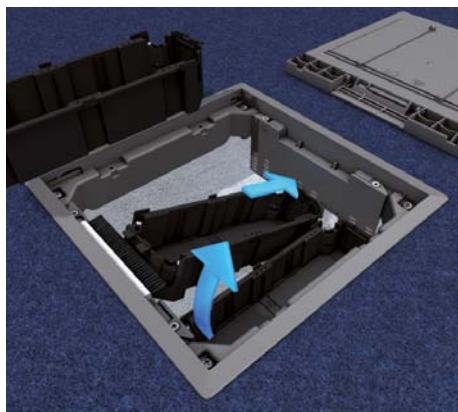
Brush installation units made of plastic, quadrangular

Assembly instruction



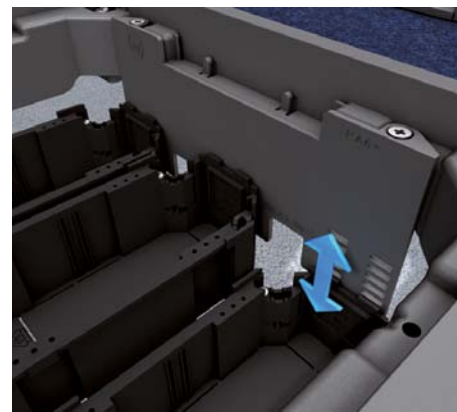
7 | The mounting of lock-in leads

The separately delivered lock-in leads can be inserted into the installation unit from the top and tightly screwed. For a flat installation the 50 mm lock-in lead must be used.



8 | Inserting the device cup

Latch the device cup as deeply into the lock-in lead as possible.



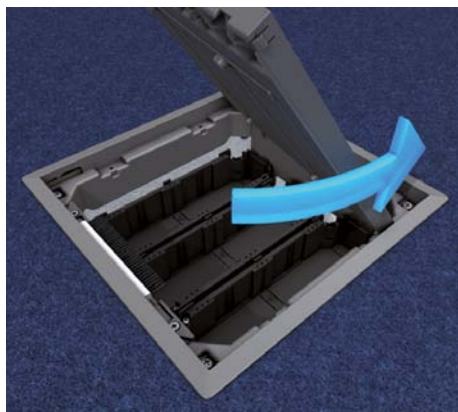
9 | Lock-in leads

Depending on the installation situation, lock-in leads of heights either 50 mm and 80 mm can be chosen. Device cups can be gradually lowered by up to 30 mm.



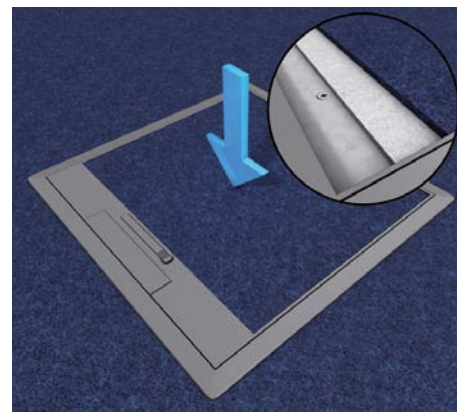
10 | Releasing the device cup

Insert screwdriver or mounting lever between frame and device cup. Release lugs on the side individually and remove device cup.



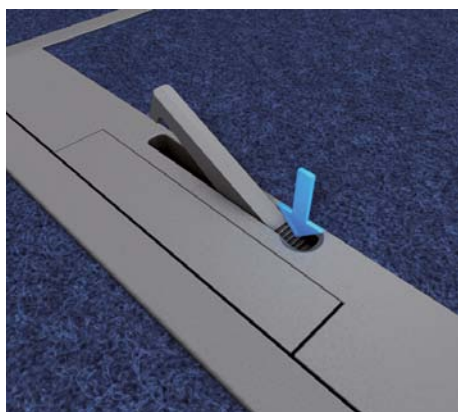
11 | Inserting the hinged cover

Insert hinged cover from the left back side, push firmly backwards on the right and latch in the hinge. The hinged cover can be inserted rotated by 180° and remains open in locking position.



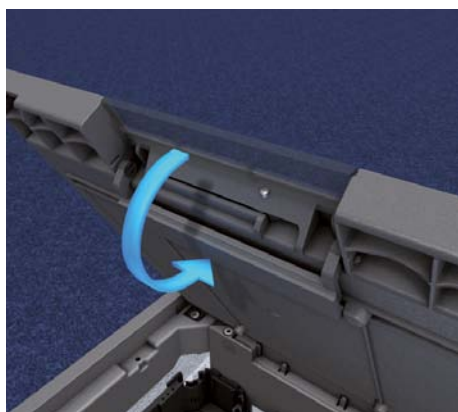
12 | Floor cover

Cut floor cover to no more than 10 mm from its precise fit and glue onto the steel reinforcement. Optionally, cover inlays in 2 mm or 5 mm thickness are available.



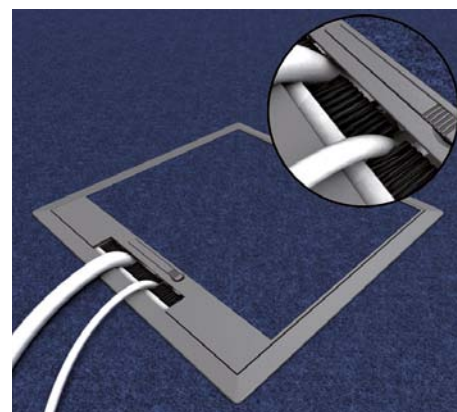
13 | Opening lever

Operate self-locking opening lever behind the cable outlet.



14 | Cable connection flap

Pan cable connection flap by 180° and latch it in.

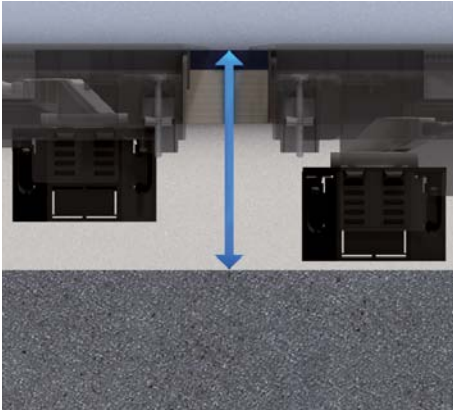


15 | Brush cable outlet

Lead out the cables through the open brush cable outlet.

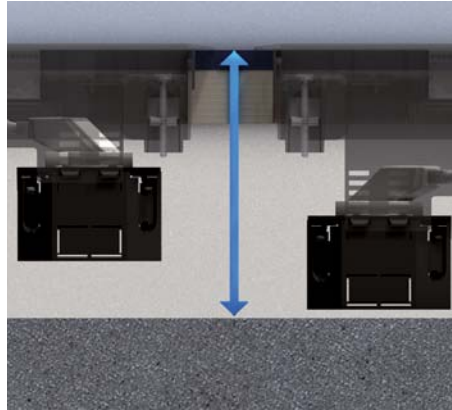
Brush installation units made of plastic, quadrangular

Assembly instruction



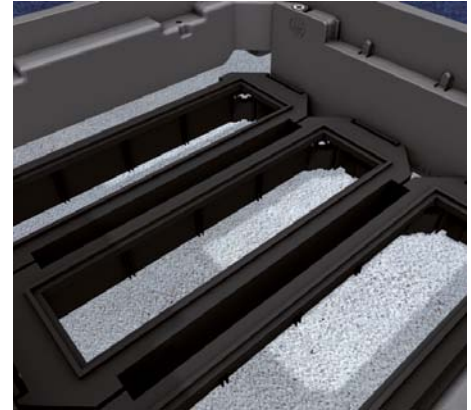
16 | Minimum installation height

Minimum installation height: 89 mm when using a 50 mm lock-in lead, respectively 109 mm when using a 80 mm lock-in lead, and in connection with coupler plugs up to H = 35 mm.



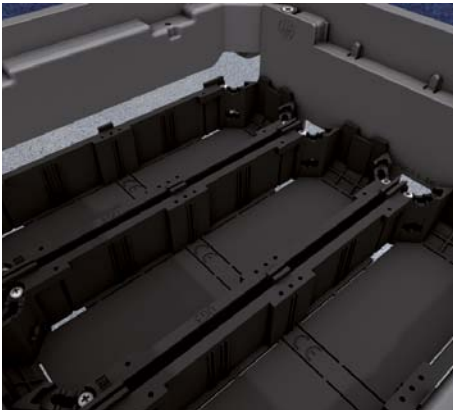
17 | Maximum installation height

Maximum installation height: 109 mm when using a 50 mm lock-in lead, respectively 134 mm when using a 80 mm lock-in lead.



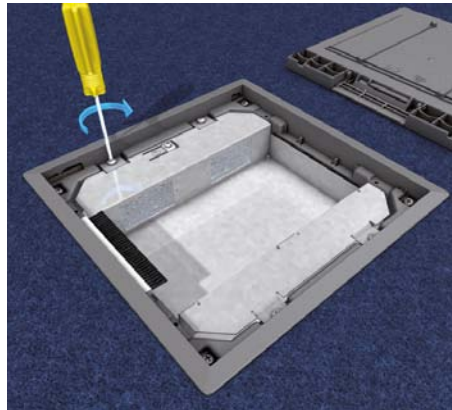
18 | The use of UG45

The device cup UG45-4 is suitable for using of installation devices measuring 45 x 45 mm or 45 x 22,5 mm. Minimum installation height: 82 mm when using the 50 mm lock-in lead, respectively 102 mm when using the 80 mm lock-in lead and in connection with coupler plugs up to H = 35 mm.



19 | The use of UG3

To achieve an even flatter installation depth, use our newly developed device cup UG3. Minimum installation height: 82 mm when using a 50 mm lock-in lead, respectively 102 mm when using an 80 mm lock-in lead and in connection with coupler plugs up to H = 35 mm.



20 | Device insert

Place device insert into the installation unit from the top and tighten to the frame using four threaded screws. Minimum installation depth: 63 mm. Suitable for maximum two double sockets and up to six data modules. Install installation technology using boards.

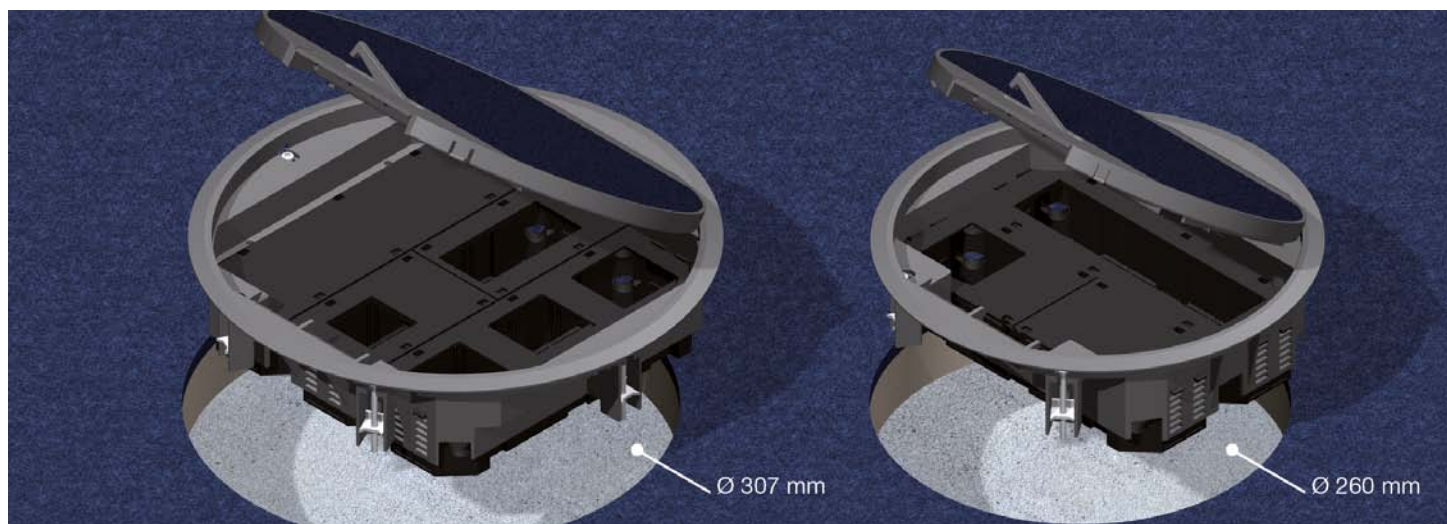


21 | Data device carrier

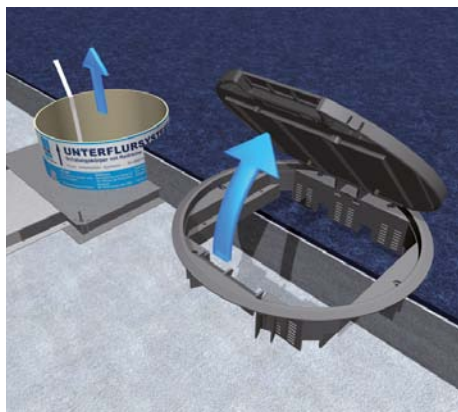
Up to nine data modules can be installed in the data device carrier using boards in the installation unit. Minimum installation height: 96 mm when using a 50 mm lock-in lead, respectively 116 mm when using an 80 mm lock-in lead set. Use the lock-in lead considering the bending radius.

Installation units made of plastic, round

Assembly instruction

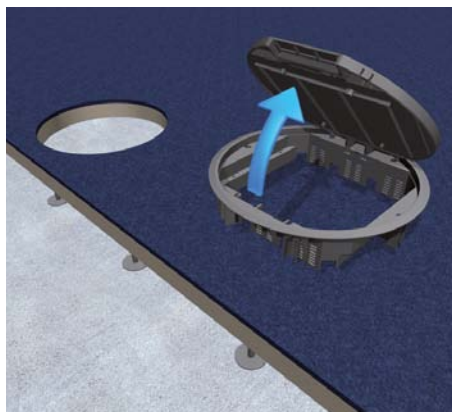


Round installation units, external diameter Ø 305 or Ø 258 mm, for installation of up to three device containers.



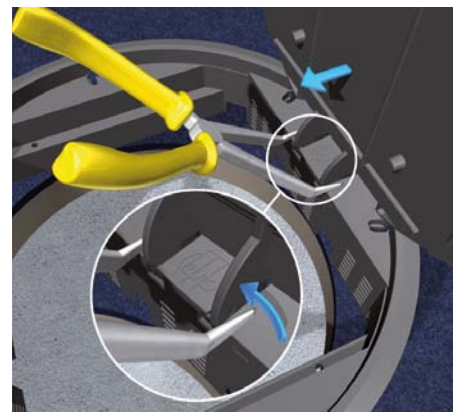
1 | Screed floors

For screed covered systems remove shuttering unit and mount directly into the opening.



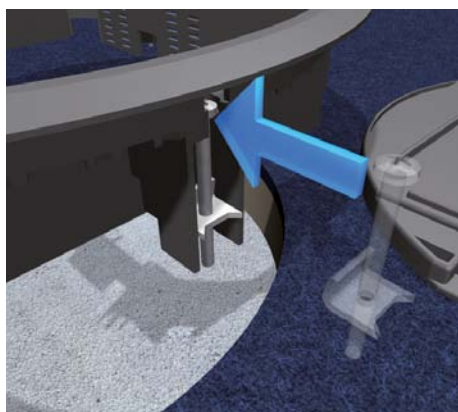
2 | Hollow space- and raised floors

For hollow space and raised floors mount directly into the installation opening.



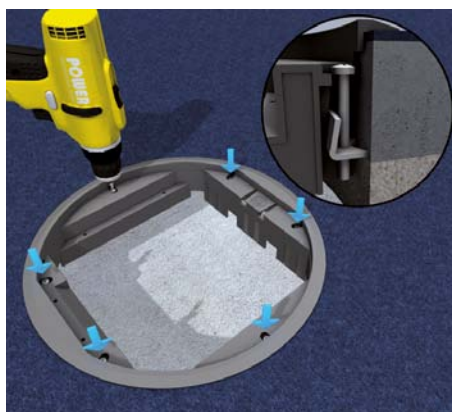
3 | Remove hinged cover

Open cover completely, pull hinge joint firmly out with tongs until the snap tabs are released from the frame. Remove cover to the front.



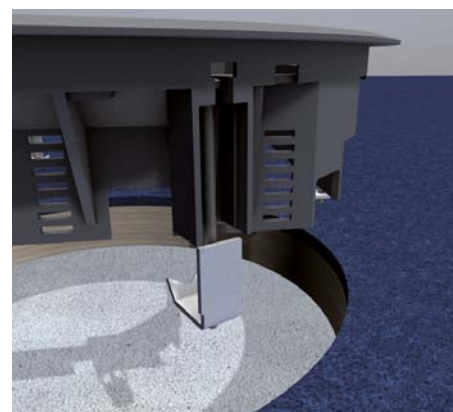
4 | Mounting claws

Mount the enclosed standard claw fasteners (range of claws 30 to 50 mm) into the acceptance in the frame.



5 | Fastening the installation frame

Insert frame into installation opening from the top and tighten the pre-assembled claws with a crosshead screw. Check to ensure that the frame fits tightly.

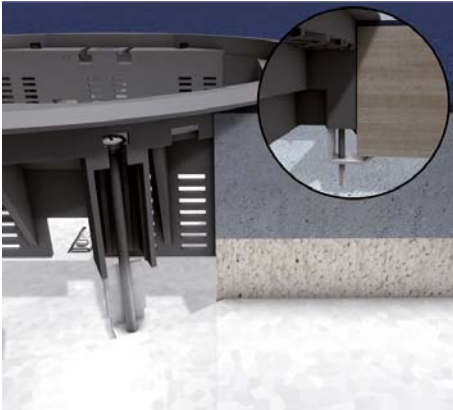


6 | Claws

Custom model applications require the use of claw UDKS 40-80. If that is the case, the pre-assembled claws are removed and replaced. Turn claw body so that the frame can be inserted from the top.

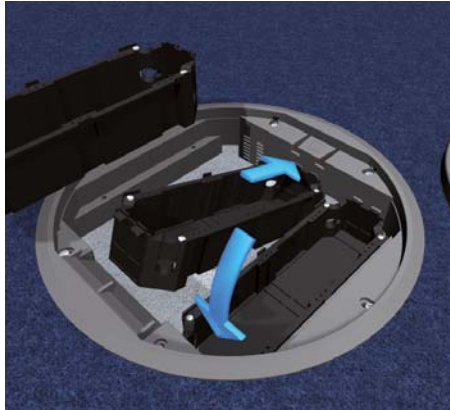
Installation units made of plastic, round

Assembly instruction



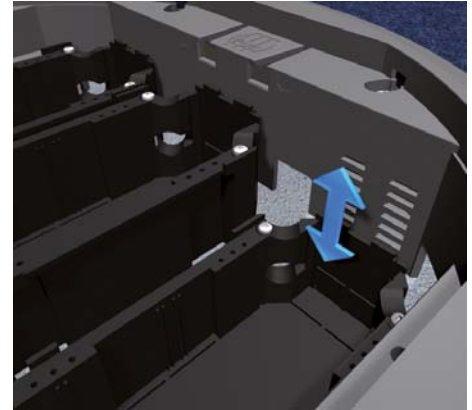
7 | The use of claws

The claws UDKS 40-80 stretch under the raised floor panel, into the screed or into the cover plate of the floor box.



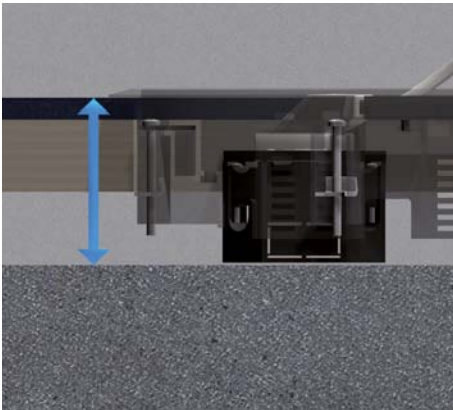
8 | Inserting device containers

Click device containers as deep as possible into the lock-in leads.



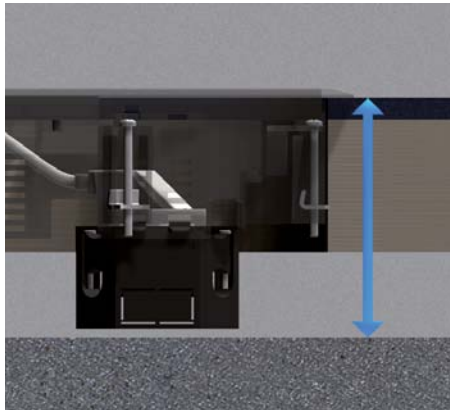
9 | Lock-in leads

For lowering the device container gradually down to 30 mm.



10 | Minimum installation height

Minimum installation height 74 mm and 87 mm for device plugs up to H = 35 mm.



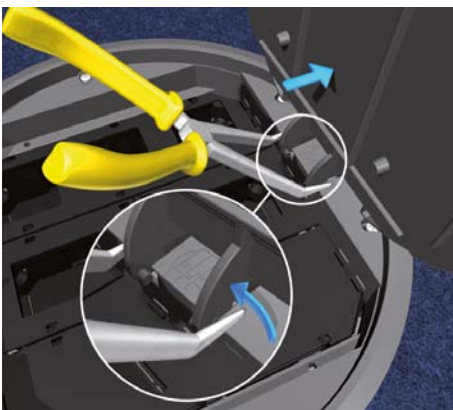
11 | Maximum installation height

Maximum installation height 104 mm for device plugs up to H = 50 mm.



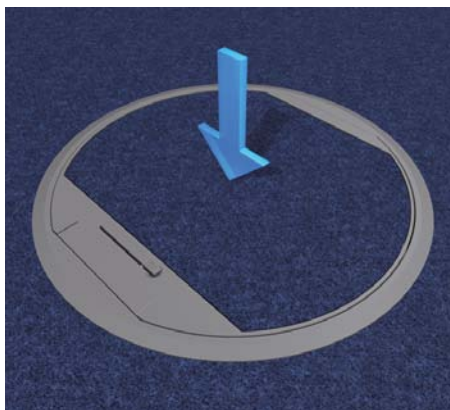
12 | Loosen device container

Insert screwdriver or mounting lever between frame and device container. Loosen snap tab and remove device container.



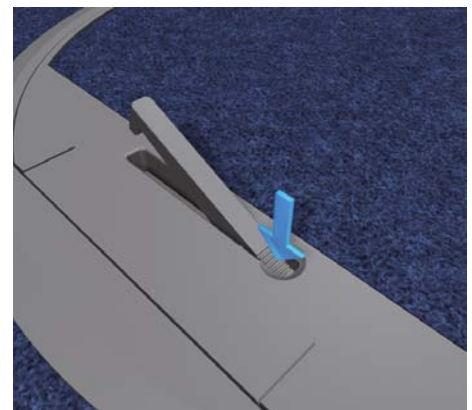
13 | Insert hinged cover

Push hinge joint together with tongs until the snap tabs lock into the opening in the frame. Insert cover to the back into the frame.



14 | Glue in bottom covering

Cut bottom coverings up to 8 mm accurately fitting and glue to the steel insert. Optional lid insert H = 3 mm.

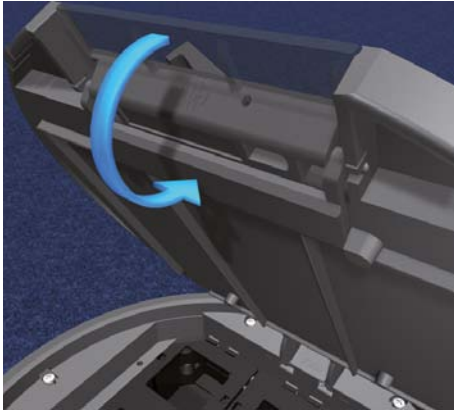


15 | Opening lever

Self-locking opening lever behind the cable outlet.

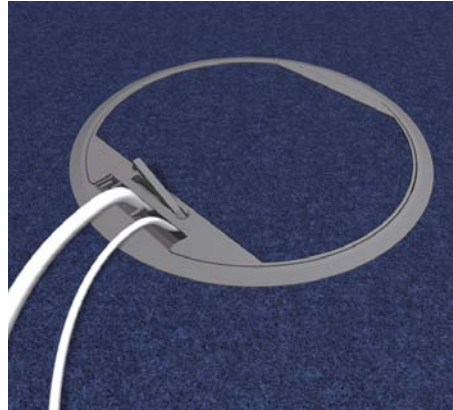
Installation units made of plastic, round

Assembly instruction



16 | Cable outlet

Swing around carriage cover by 180° and snap in.

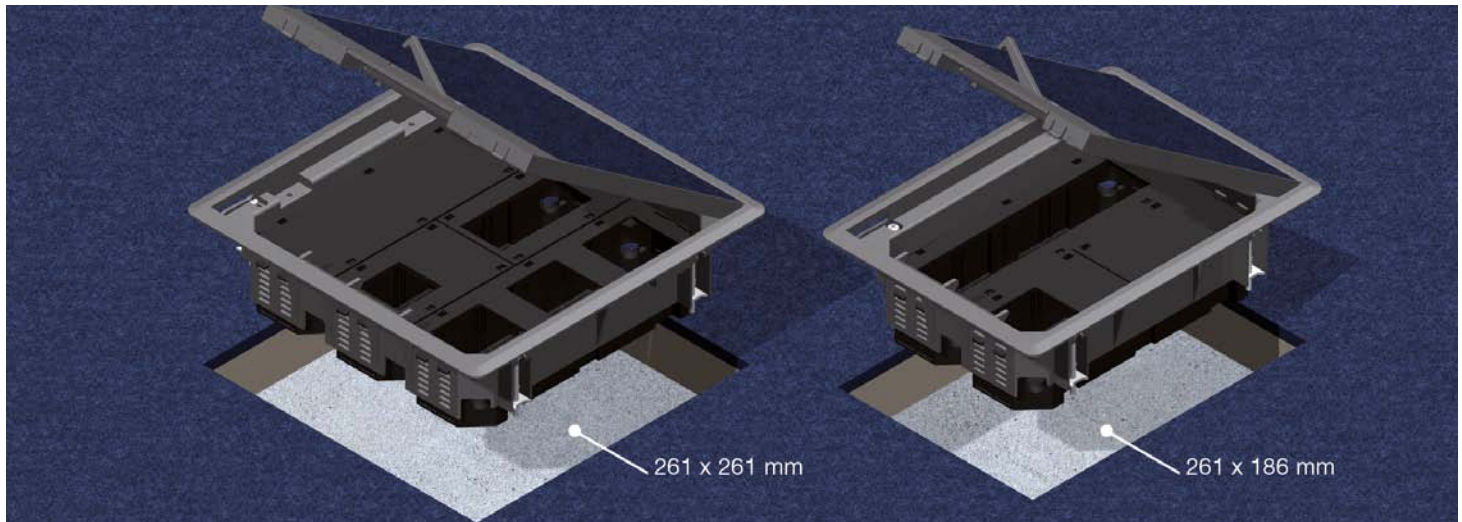


17 | Leading cables through

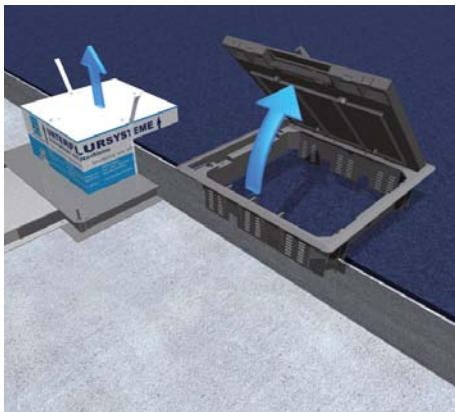
Leading cables through the open cable outlet.

Installation units made of plastic, quadrangular

Assembly instruction

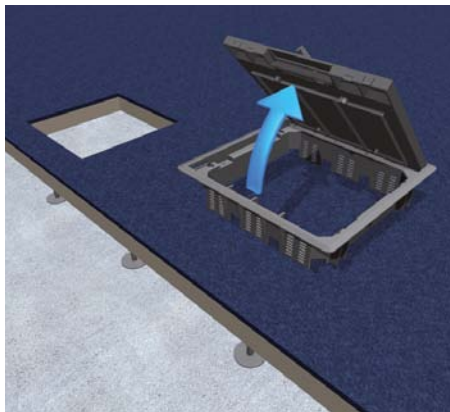


Quadrangular installation units, external dimension 258 x 258 mm or 258 x 184 mm, for installation of up to three device containers.



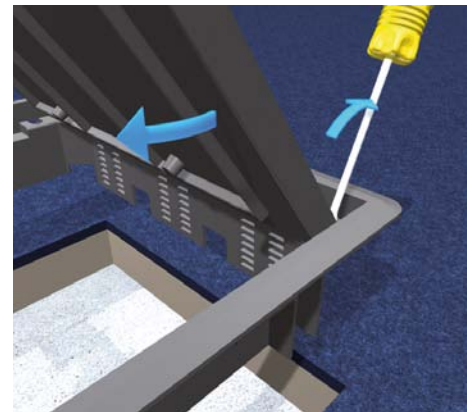
1 | Screed floors

For screed covered systems remove shuttering unit and mount installation unit directly into the installation opening.



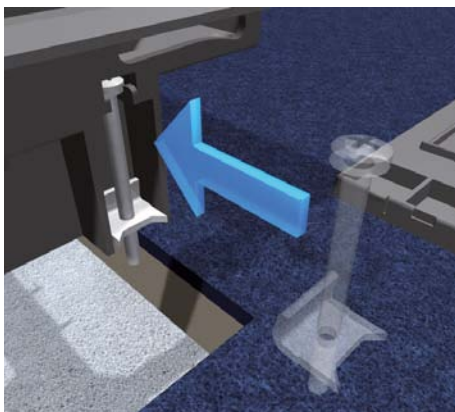
2 | Hollow space- and raised floors

For hollow space and raised floors mount installation unit directly into the installation opening.



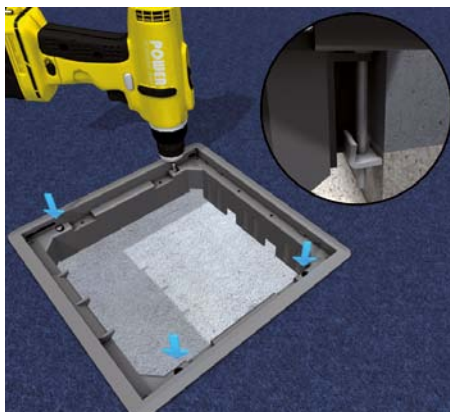
3 | Remove hinged cover

Open cover completely, pull firmly forward at the right side and loosen from hinge joint with a screwdriver.



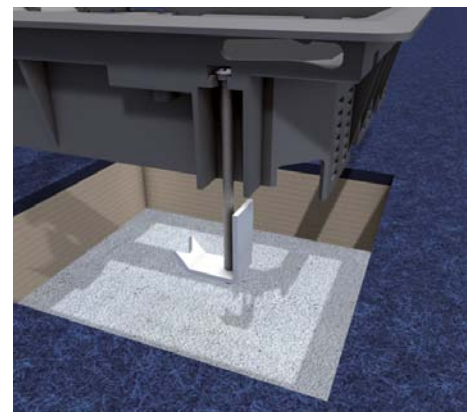
4 | Mounting claws

Mount the enclosed standard claw fasteners (range of claws 30 to 50 mm) into the acceptance in the frame.



5 | Fastening the installation frame

Insert frame into installation opening from the top and tighten the pre-assembled claws with a crosshead screw. Check to ensure the frame fits tightly.

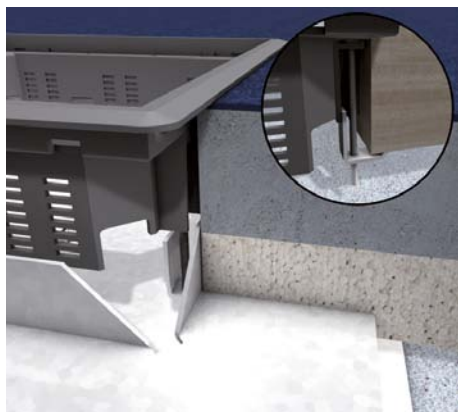


6 | Claws

Custom-made applications require the use of claw UDKS 40-80. If that is the case, the pre-assembled claws are removed and replaced. Turn claw body so that the frame can be inserted from the top.

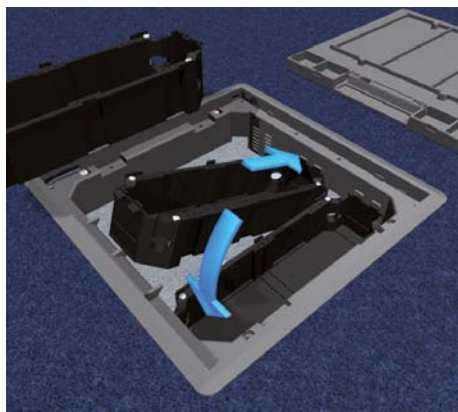
Installation units made of plastic, quadrangular

Assembly instruction



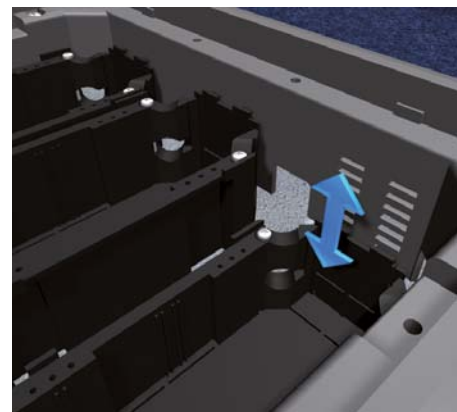
7 | The use of claws

The claws UDKS 40-80 stretch under the raised floor panel, into the screed or into the cover plate of the floor box.



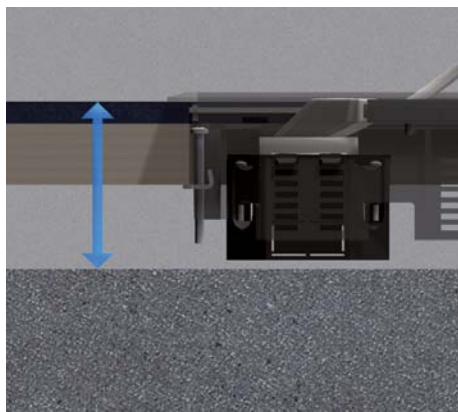
8 | Inserting device containers

Click device containers as deep as possible into the lock-in leads.



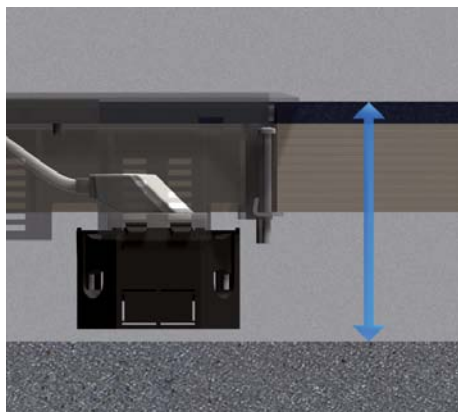
9 | Lock-in leads

Lower the device container gradually down to 30 mm.



10 | Minimum installation height

Minimum installation height 74 mm and 87 mm for device plugs up to H = 35 mm.



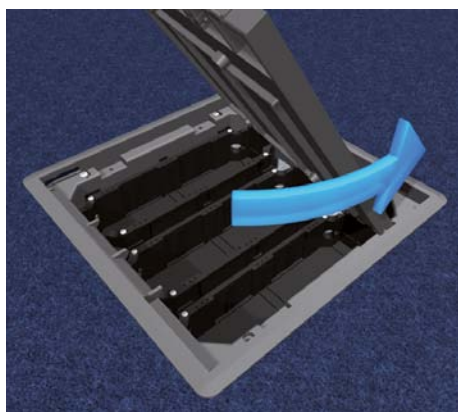
11 | Maximum installation height

Maximum installation height 104 mm for device plugs up to H = 50 mm.



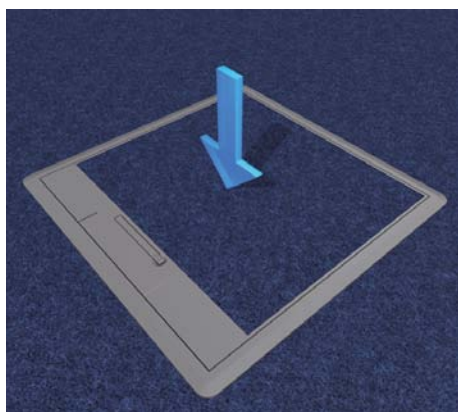
12 | Loosen device container

Insert screwdriver or mounting lever between frame and device container. Loosen snap tab and remove device container.



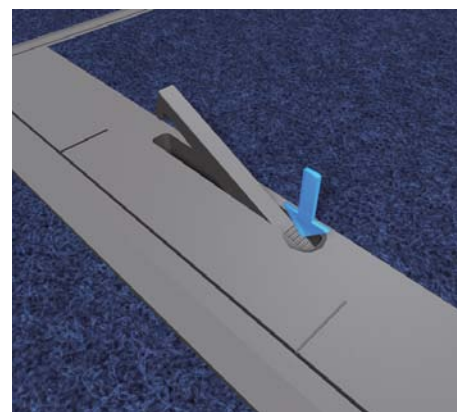
13 | Insert hinged cover

Attach opened hinged cover at the left back side, push firmly to the back on the right side and snap into hinged-joint.



14 | Glue in bottom covering

Cut bottom coverings up to 8 mm accurately and glue to the steel insert. Optional lid insert H = 3 mm.

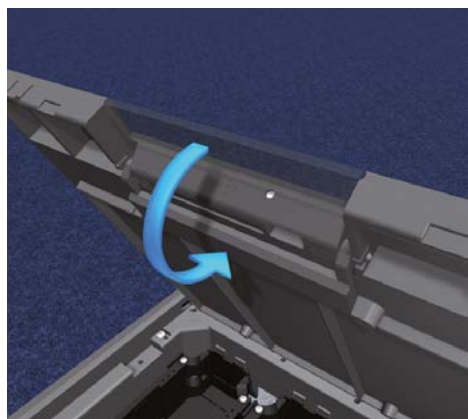


15 | Opening lever

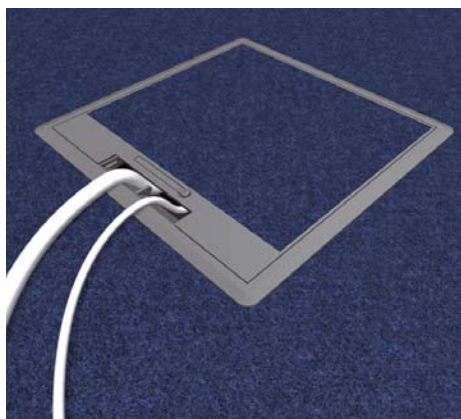
Self-locking opening lever is behind the cable outlet.

Installation units made of plastic, quadrangular

Assembly instruction



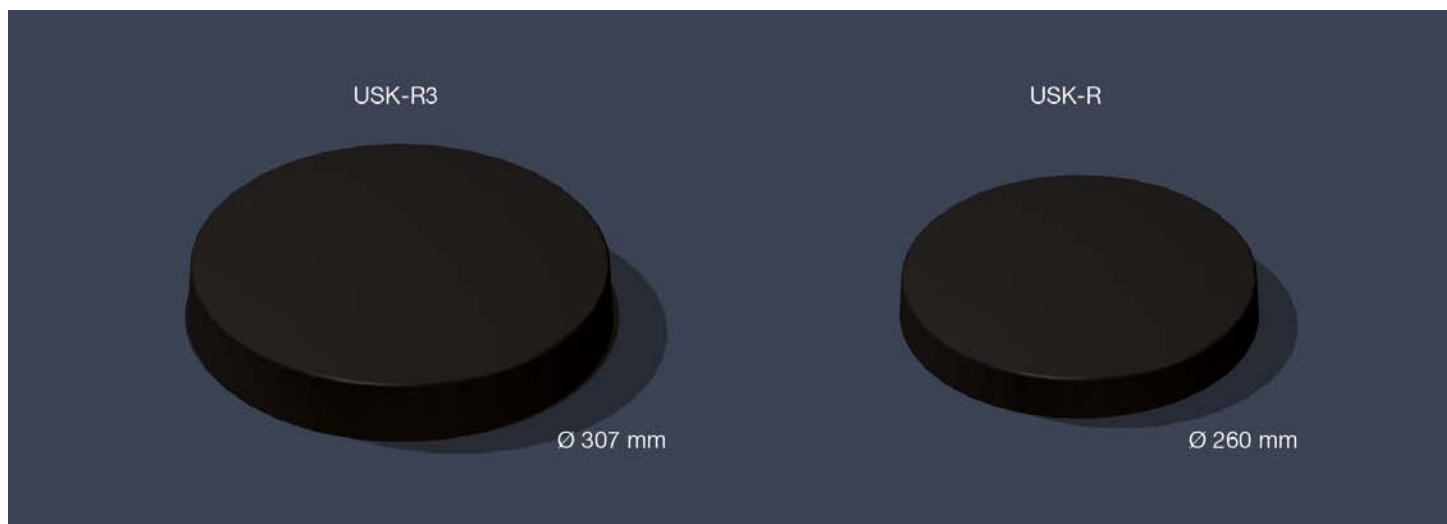
16 | Cable outlet
Swing around carriage cover by 180° and snap in.



17 | Lead cables through
Lead cables through the open cable outlet.

Shuttering unit, round

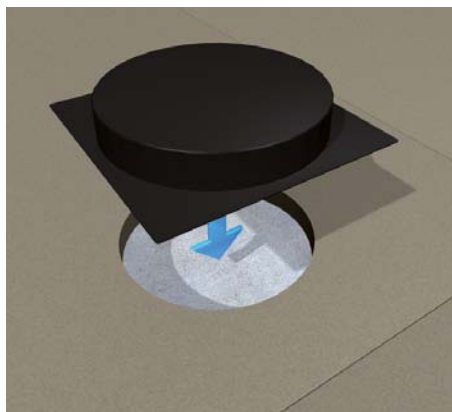
Assembly instruction



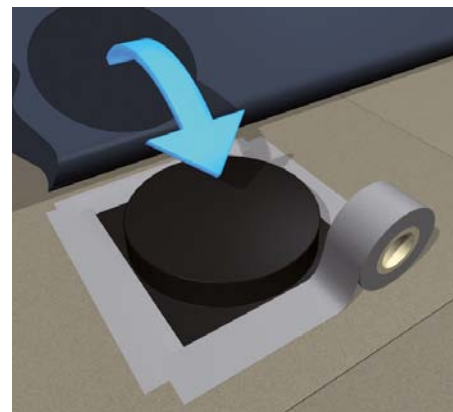
Round shuttering units in two designs, deep-drawing piece made of 1 mm plastic, height 50 mm for providing an opening in the hollow floor.



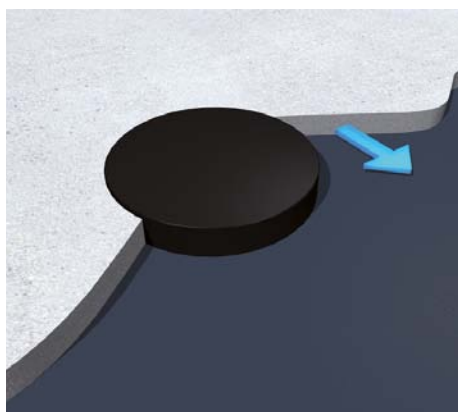
1 | Levelling of shuttering unit
Provide openings with cross section 307 mm or 260 mm in the assembled basic floor.



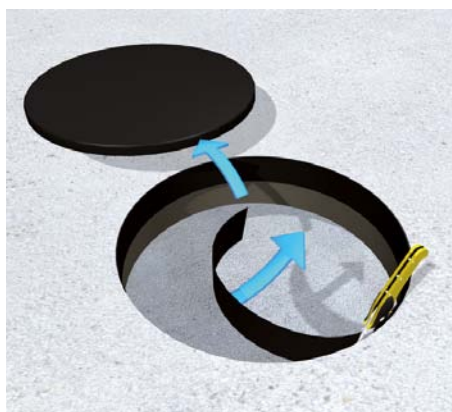
2 | Fixation of shuttering unit
Level the shuttering units on the hollow floor before applying the screed.



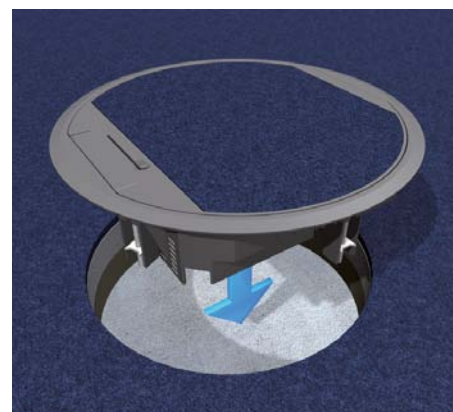
3 | Mounting of foil
Fix shuttering units to the floor with adhesive tape, cut out foil and overlap.



4 | Inserting screed
Spread the screed on the whole area and compact it neatly.



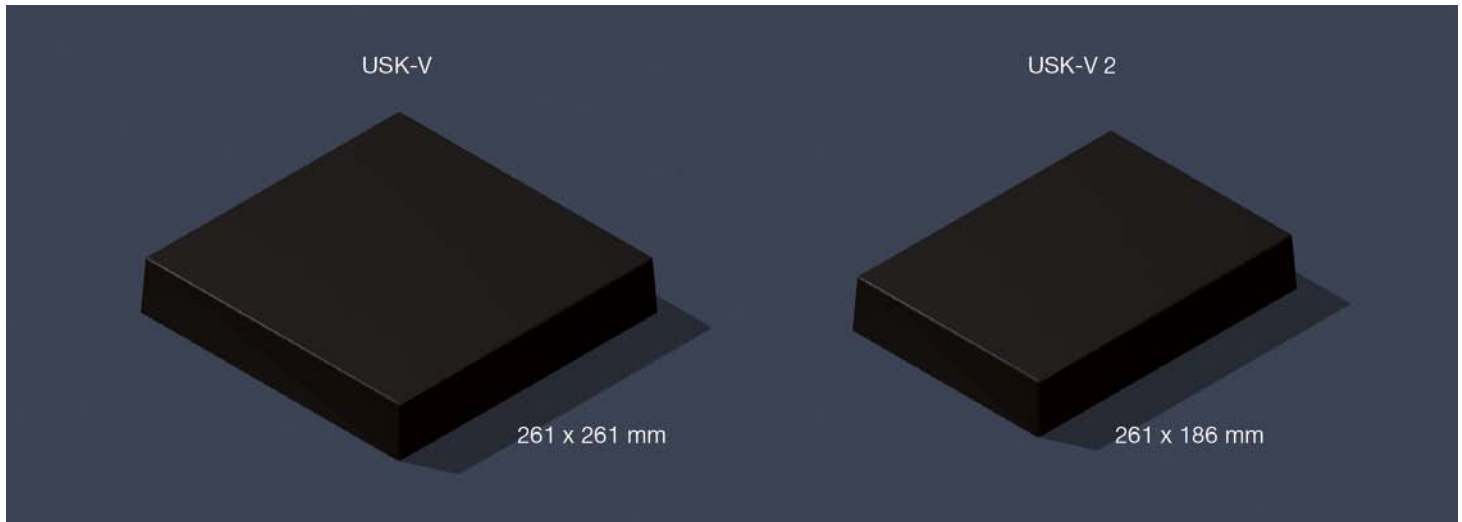
5 | Cut out opening
After the screed has hardened remove the overlapping lid and sidewalls neatly.



6 | Mounting assembly unit
After the floor covering has been laid insert the installation unit straight into the opening and fasten it with the claws evenly to the screed.

Shuttering unit, quadrangular

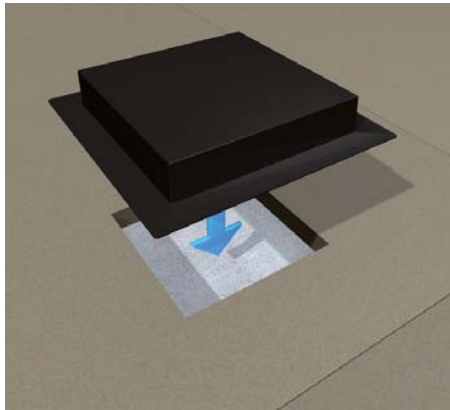
Assembly instruction



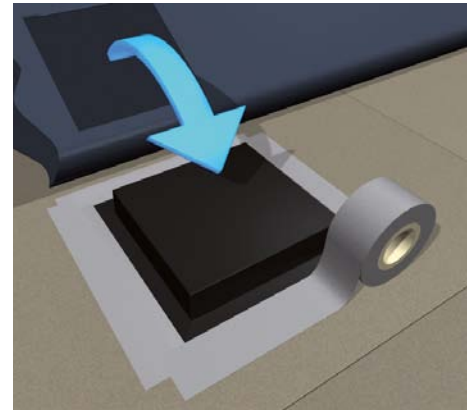
Quadrangular shuttering units in two designs, deep-drawing piece made of 1 mm plastic, height 50 mm for providing an opening in the hollow floor.



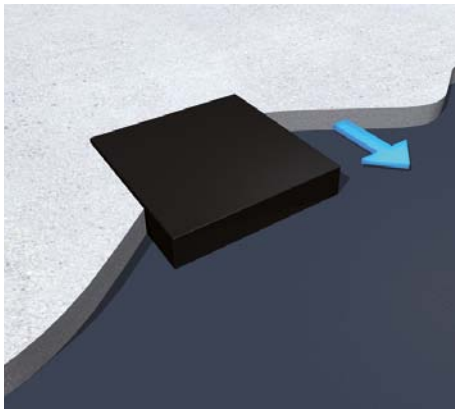
1 | Levelling of shuttering unit
Provide openings 261 x 261 mm or 261 x 186 mm in the assembled basic floor.



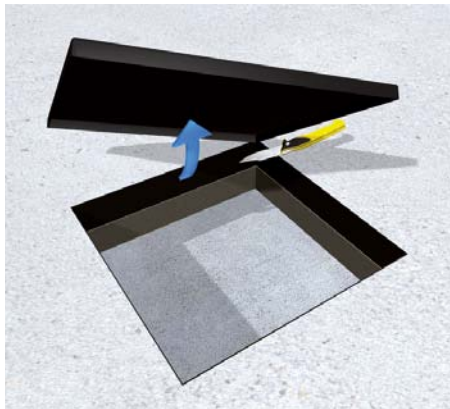
2 | Fixation of shuttering unit
Level the shuttering units on the hollow floor before applying the screed.



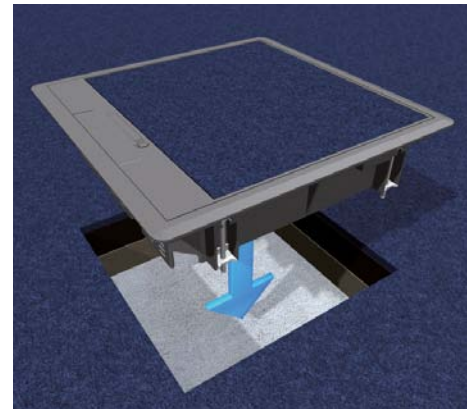
3 | Mounting of foil
Fix shuttering units to the floor with adhesive tape, cut out foil and overlap.



4 | Inserting screed
Spread the screed on the whole area and compact it neatly.



5 | Cut out opening
After the screed has hardened remove the overlapping lid and sidewalls neatly. Side walls must be maintained.



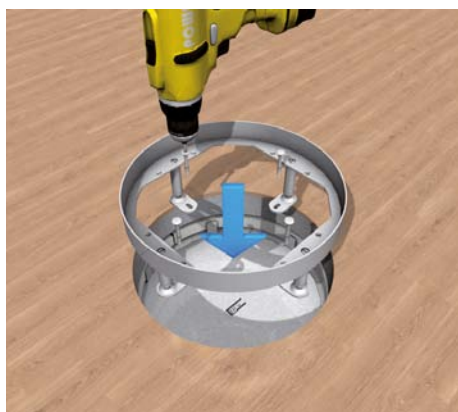
6 | Mounting assembly unit
After the floor covering has been laid insert the installation unit straight into the opening and fasten it with the claws evenly to the screed.

Cartridge units made of stainless steel, round

Assembly instruction



Round cartridge unit with hem made of stainless steel with an external diameter of 307 mm as a dummy cartridge unit, cable outlet cartridge unit and tube cartridge unit for the installation into screed and hollow floors. For 12/30 mm parquet and stone covers and linoleum in combination with rigid foam lid insert. Can be levelled from 100 to 155 mm.



1 | Levelling unit with frame

For parquet or stone floors insert the levelling device into the floor opening. Fasten the four levelling bases with nail plugs.



2 | Rubber seal

The cartridge is equipped with two rubber seals therefore there is no need for inserting them separately. The rubber seal inserted from the bottom guarantees the required subsonic noise, while the rubber seal on the side provides the needed seal. A regular maintenance and cleaning of the seals is necessary.



3 | Lock-in leads

Fasten both lock-in leads to the frame from the bottom, using two screws for each side. Make the grounding connection between levelling device and floor box.



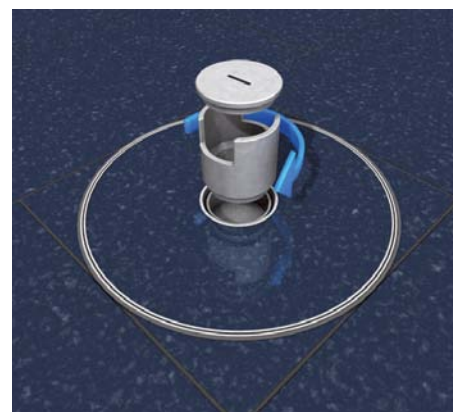
4 | Floor adjustment

Align the installation frame flush on the level of the finished floor above the four levelling screws. Seal expansion joint revolving with cork or sealing mass. When using a coupler plug $H = 35$ mm observe the minimum installation depth $H_{min} = 100$ mm.



5 | Parquet cover

For damp-maintenance floors, such as parquet covers, use a dummy cartridge unit or a cable outlet cartridge unit. However the floor cover depth must be considered. Insert the replaceable cartridge into the frame.

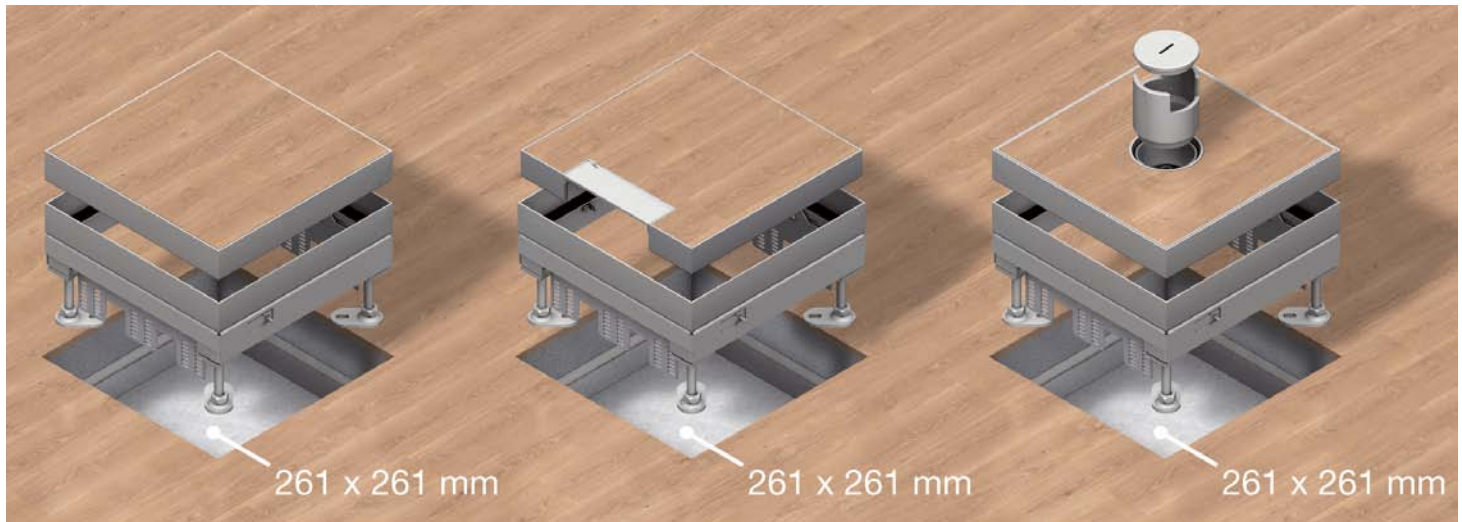


6 | Stone cover

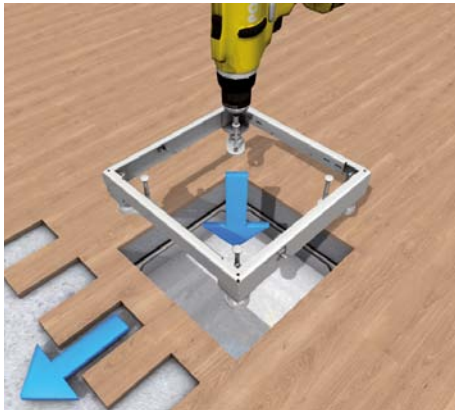
For wet maintenance floor covers, such as stone covers, only a tube cartridge unit may be used. However the floor cover depth must be considered. Insert the replaceable cartridge into the frame. The tube can be screwed.

Cartridge unit made of stainless steel, quadrangular

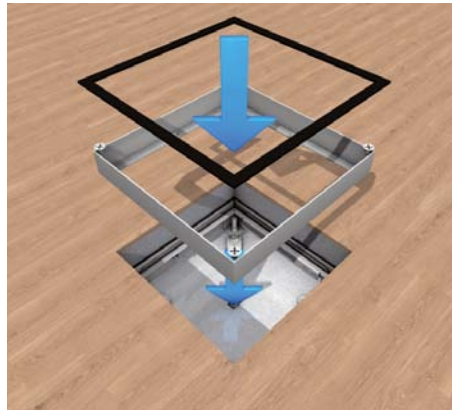
Assembly instruction



Quadrangular cartridge unit with hem, made of stainless steel, with the outside measurements of 261 x 261mm as a dummy cartridge unit, cable outlet cartridge unit and tube cartridge unit for the installation into screed and hollow floors. For 12/22/32/42 mm parquet and stone covers and linoleum in combination with rigid foam lid insert. Can be levelled from 65 to 315 mm.



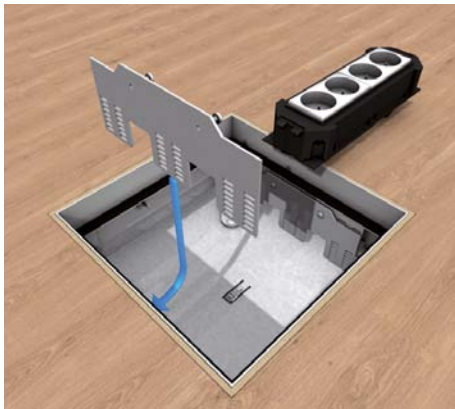
1 | Levelling device
For parquet or stone floors insert the levelling device into the floor opening. Fasten the four levelling bases with nail plugs.



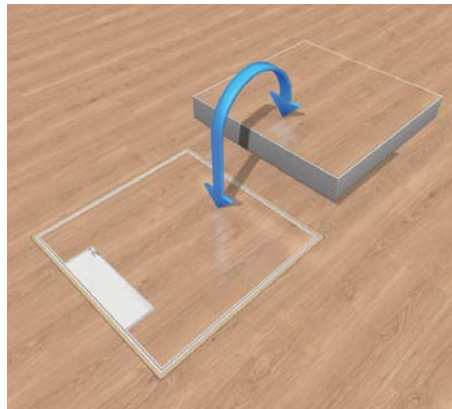
2 | Stainless steel frame
Screw the stainless steel frame to the levelling device with four screws. Glue rubber seal in place. Make the grounding connection between levelling device and floor box. A regular maintenance and cleaning of the seals is necessary.



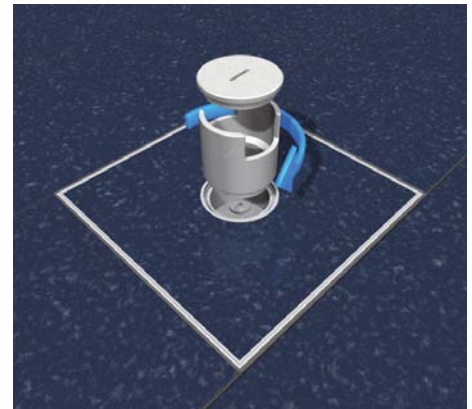
3 | Floor adjustment
Align the installation frame flush to the level of the finished floor with four levelling screws. Seal expansion joint revolving with cork or sealing mass.



4 | Lock-in leads
Mount both lock-in leads with two screws each on the side of the frame. Create grounding connection between levelling device and floor box. When using a coupler plug H = 35 mm, comply with the minimum installation depth Hmin = 95 mm.



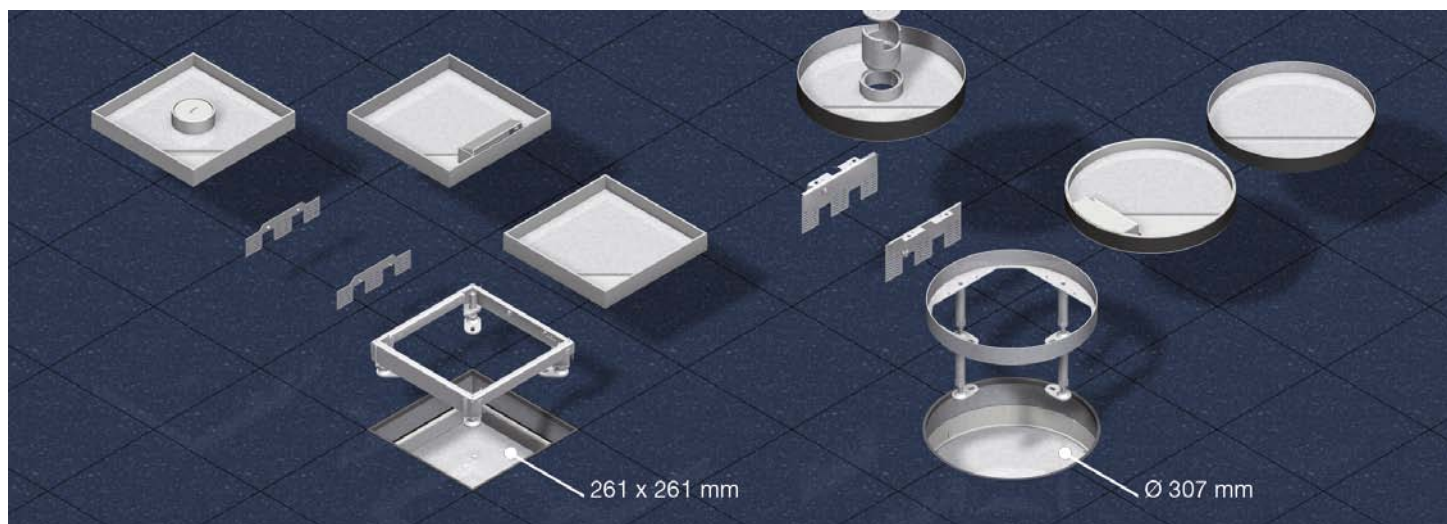
5 | Parquet cover
For damp maintenance floors such as parquet covers, use a dummy cartridge unit or a cable outlet cartridge unit. However, the floor cover depth must be considered. Insert the replaceable cartridge into the frame.



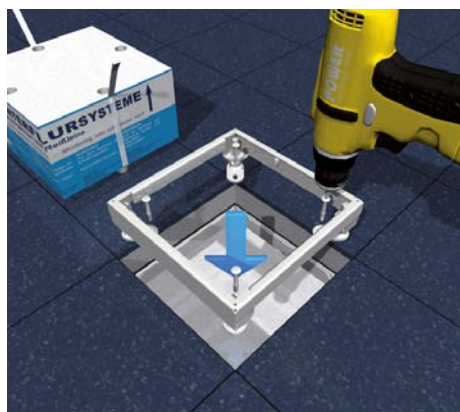
6 | Stone cover
For wet maintenance floor covers such as stone covers, only a tube cartridge unit may be used. However, the floor cover depth must be considered. Insert the replaceable cartridge into the frame. The tube can be screwed.

Heavy-duty cartridge units made of stainless steel

Assembly instruction

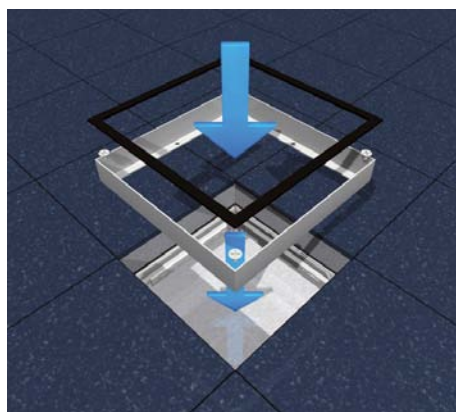


Stainless steel installation cartridge with levelling device, round or quadrangular design, as dummy-, cable-outlet- or tube outlet cartridge with steel insert for working loads up to 10 or 20 kN.



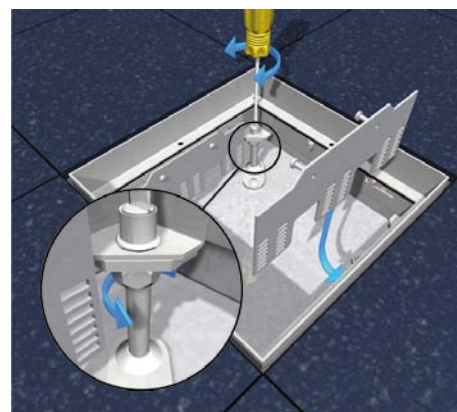
1 | Levelling device

Remove shuttering unit and insert levelling device into the floor opening. Fasten the four levelling bases to the slab with drilling screws.



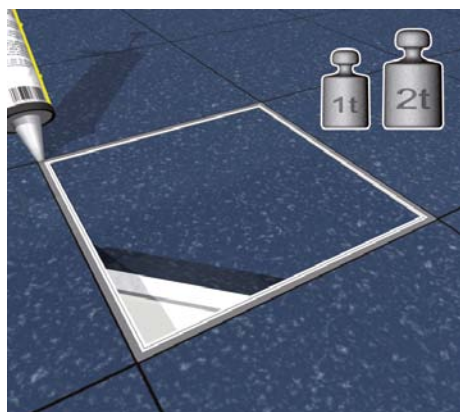
2 | Stainless steel frame

Attach device container installation frame first and then stainless steel frame to the levelling device and fasten with 4 screws. Glue in rubber sealing.



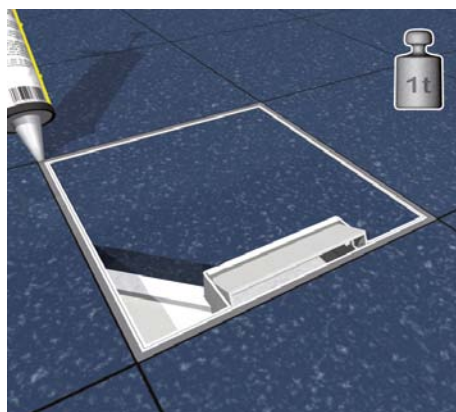
3 | Levelling to floor

Adjust installation frame flush to the height of the floor construction with the four levelling bolts. Lock the levelling bases against the frame with hex-nuts.



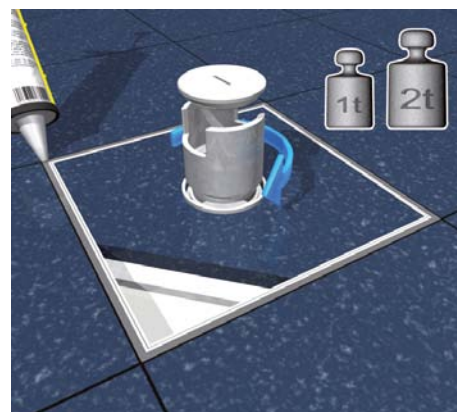
4 | Dummy cartridge 10 / 20 kN

Insert cartridge with integrated steel inlay into the frame, seal expansion gap. For coverings thicker than 16 mm in case of applied load 10 kN and 24 mm in case of applied load 20 kN.



5 | Cable outlet cartridge 10 kN

Insert cartridge with integrated steel inlay into the frame, seal expansion gap. For coverings thicker than 16 mm.



6 | Tube outlet cartridge 10 / 20 kN

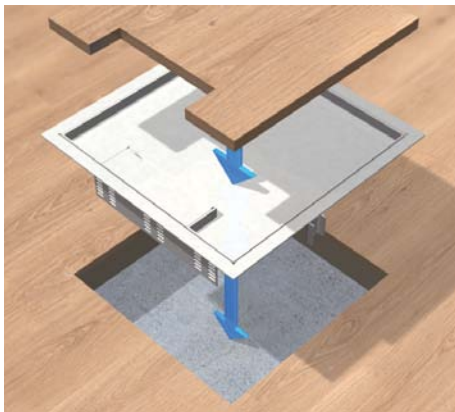
Insert cartridge with integrated steel inlay and tube mounting set into the frame. Complete with tube. Seal expansion gap. For coverings thicker than 16 mm in case of applied load 10 kN and 24 mm in case of applied load 20 kN.

Cartridge installation unit made of stainless steel, quadrangular

Assembly instruction

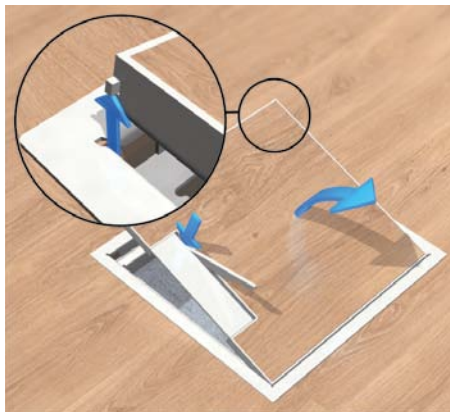


Quadrangular cartridge installation units with carpet protection frame made of high-grade steel with outer measurements of 284x284 mm or 284x211 mm for the installation in hollow space floors or raised floors. For parquet flooring of 12/22 mm.



1 | Unit

For the installation of up to 3 device cups, place the cartridge installation unit UEKDD V E into the opening.



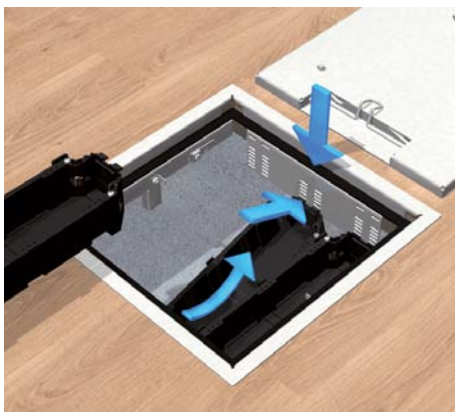
2 | Opening lever

Open the self-locking opening lever behind the cable outlet. Remove the cover sideways over the hinge.



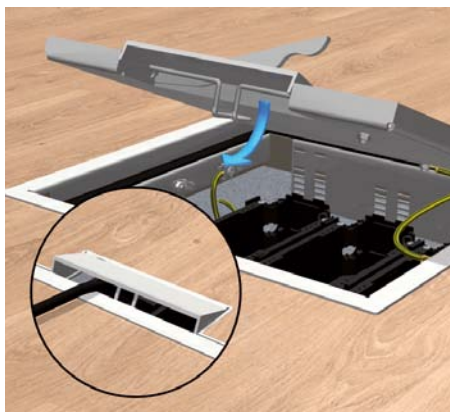
3 | Claws

Hinge the enclosed claws with the corresponding screws into the frame guide and pull tight.



4 | Rubber seal / Device cup

Glue the rubber seal to the impact-noise interface. Snap the device cup as deep into the lock-in leads as possible. When using an device plug $H = 35$ mm, minimum installation depth $H_{min} = 91$ mm.



5 | Axis

Open the cable outlet with the opening lever and swivel the cable outlet axis.

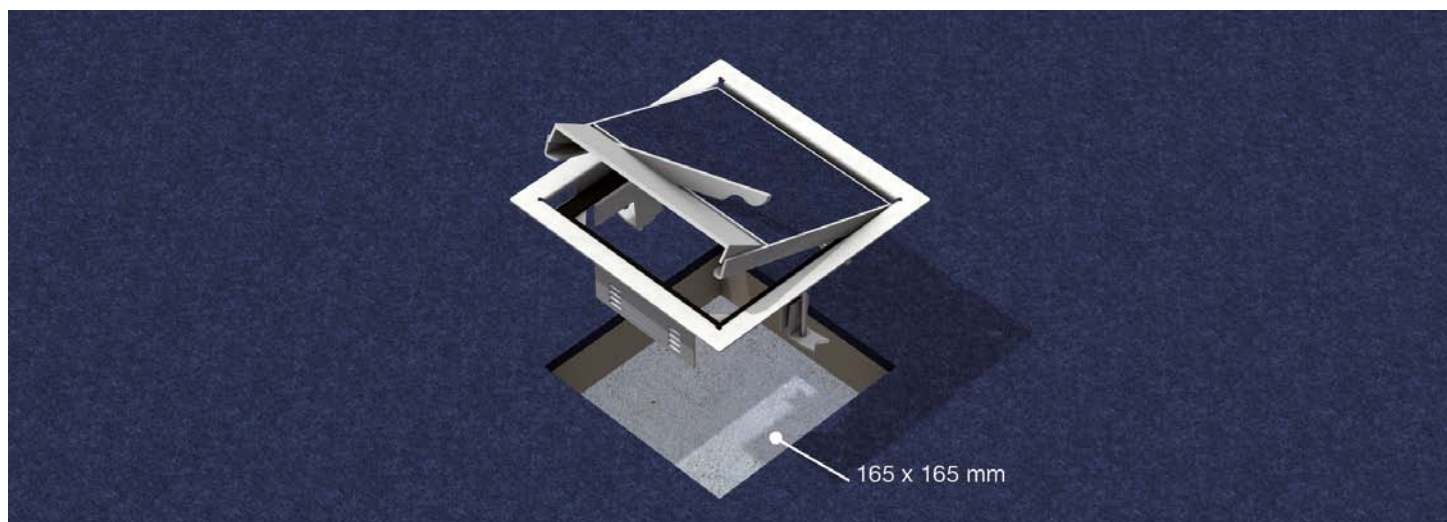


6 | Earthing connection

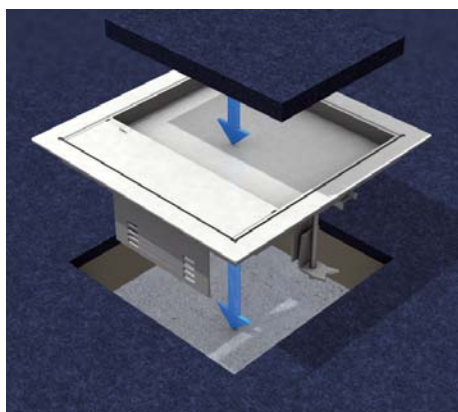
Make an earthing connection between the frame and the cover. Factor the installation unit into the potential equalization.

Cartridge installation unit made of stainless steel, quadrangular

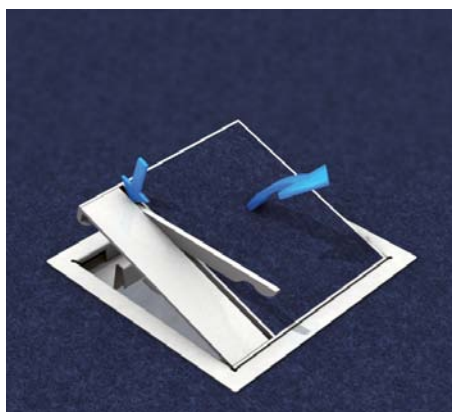
Assembly instruction



Quadrangular cartridge unit with carpet protection frame made of high-grade steel with outside measurements of 187x187 mm for the installation in hollow floors or raised floors, for a floor cover of 12/22 mm.



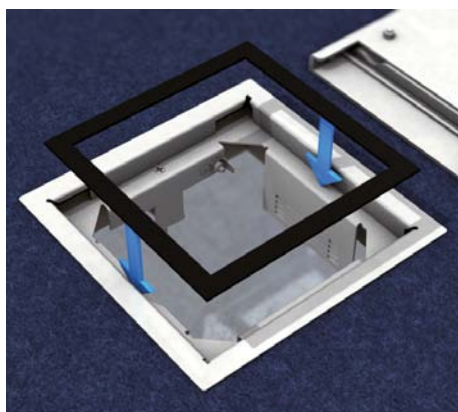
1 | Unit
For the installation of a device cup, place cartridge unit UEKDD1-2 V E into the opening.



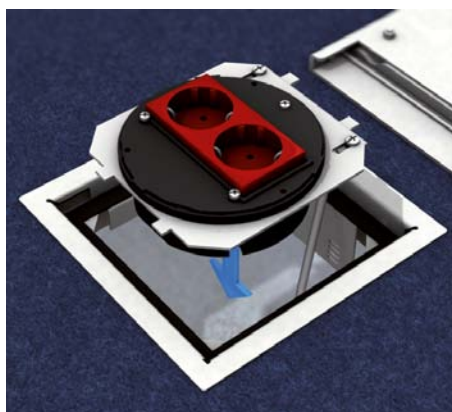
2 | Opening lever
Activate the self-locking opening lever behind the cable outlet and lift the lid out of the frame sideways through the hinge.



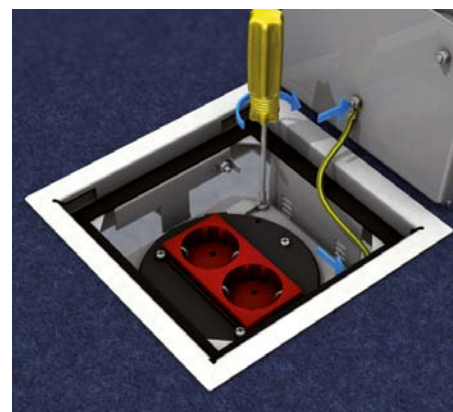
3 | Mounting of claws
Hinge the enclosed claws with the corresponding screws into the holding fixtures in the frame. Bring the claws in the right position and pull tight with a crosshead screw. Make sure the frame sits tightly.



4 | Rubber seal
Glue the rubber seal for impact-noise decoupling into the frame.



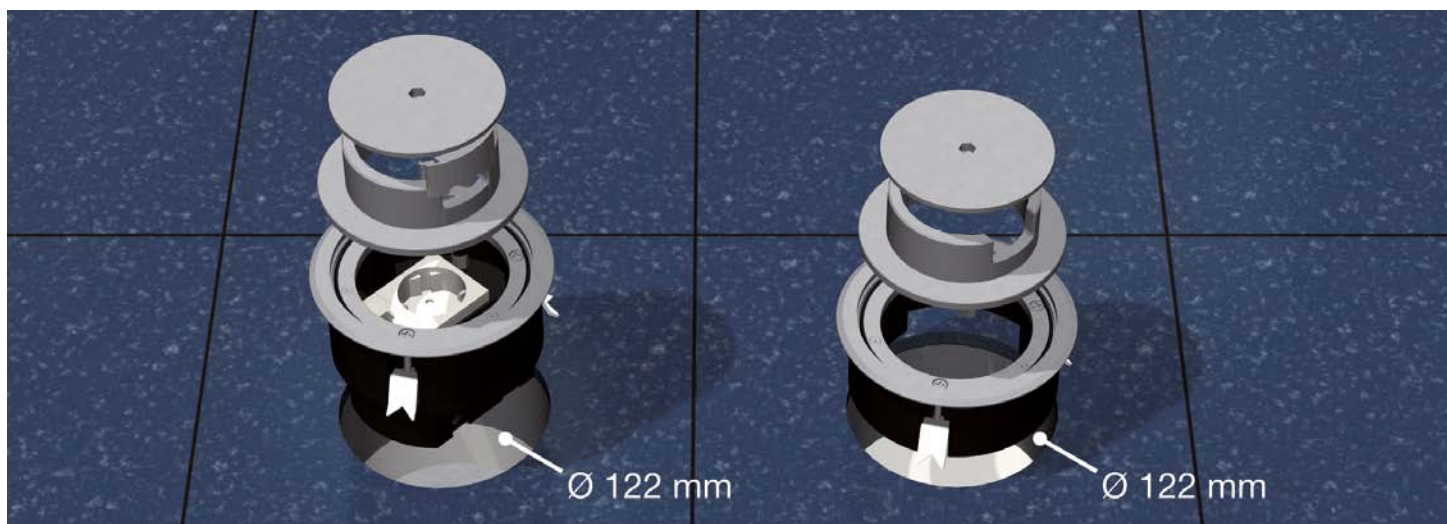
5 | Inserting of device cup
Insert plate with the pre-mounted and loaded device cup through the plate slide as deep into the lock-in leads in the frame as possible. A gradual lowering of the plate to max 20 mm possible.



6 | Earthing connection
Fixate the plate in the lock-in lead and make an earthing connection between the single outlet frame and the cover. Factor the installation unit into the potential equalization.

Single outlet BODO, wet maintenance floors

Assembly instruction

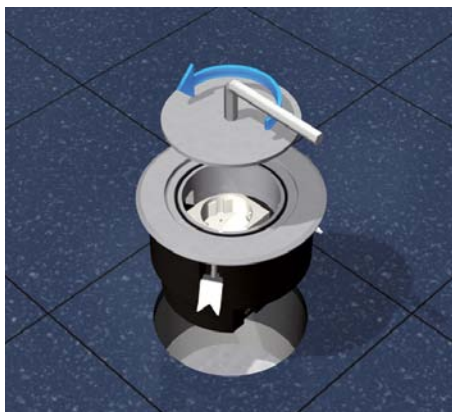


Round single outlet with protection frame made of aluminium, with an external diameter of 133 mm, equipped with an isolated ground receptacle and an RJ45 data socket (Legrand Typ Cat. 6A STP RJ45, 76573) or inspection chamber. For the installation into screed or raised floors. Other equipment options are available.



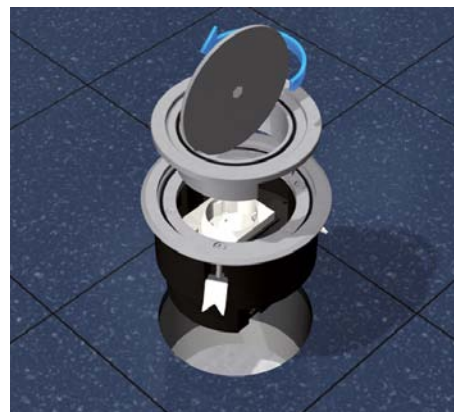
1 | Screed/raised floors

Create a floor opening in screed or raised floor by means of shuttering / drill bit or by using a hollow floor box with a shuttering unit.



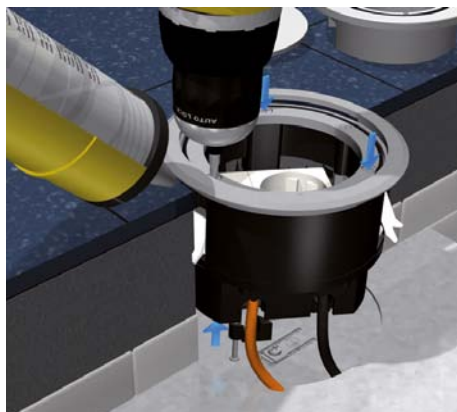
2 | Cover

Open cover with the enclosed socket wrench counter clock-wise.



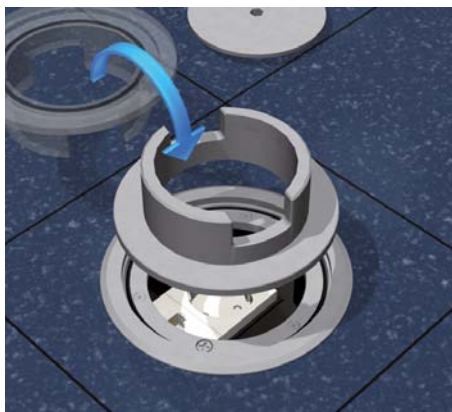
3 | Remove tube

Hinge the enclosed claws with corresponding screws into the notches in the frame. Bring claws to the right position and pull tight with a phillips screw. Make sure that the frame is solid.



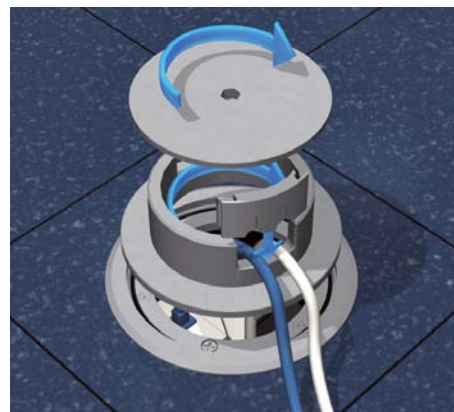
4 | Attach the frame and insert the strain relief

Protection frame has to seal accordingly when used in wet-maintained floors. Insert strain relief from below into the opening and secure the cable. Tighten the claws with cross-head screws.



5 | Tube insert

Bring single-outlet from closed to open state by swivelling the tube insert by 180°. Insert the rubber sleeve for a dust-proof sealing.

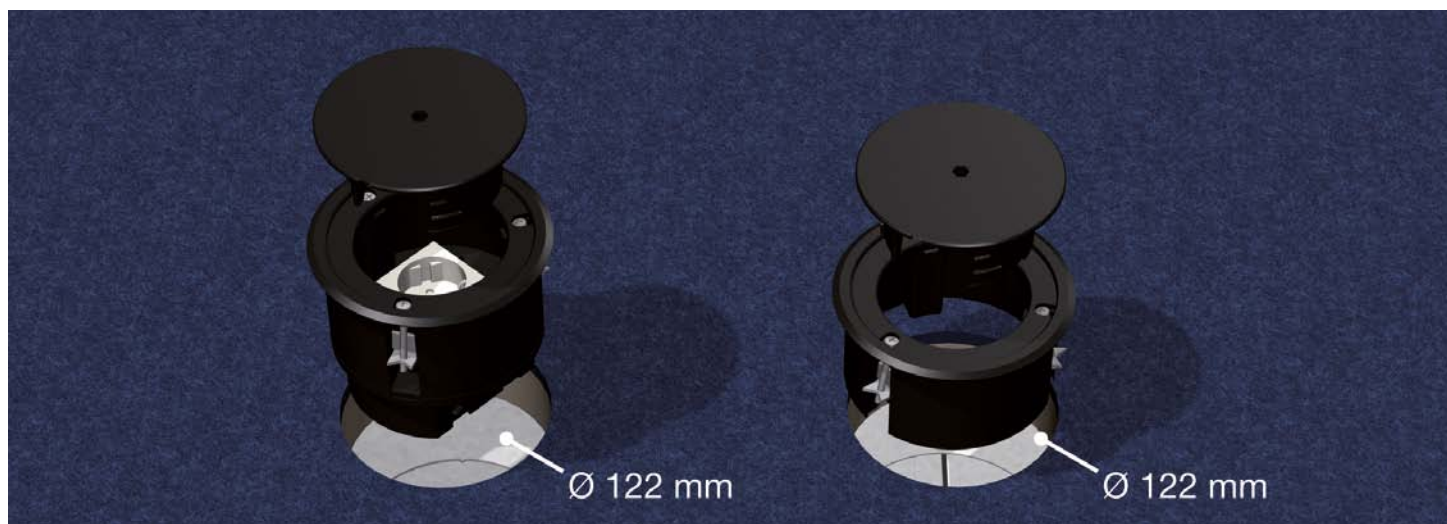


6 | Mounting

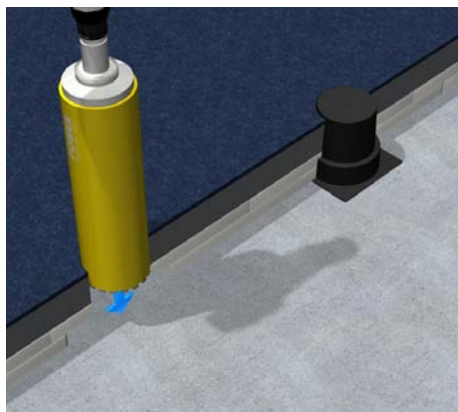
Insert straight or angle plug and bring out cables through cable outlet. Screw tube collet and tube cover tightly.

Single outlet BODO, dry maintenance floors

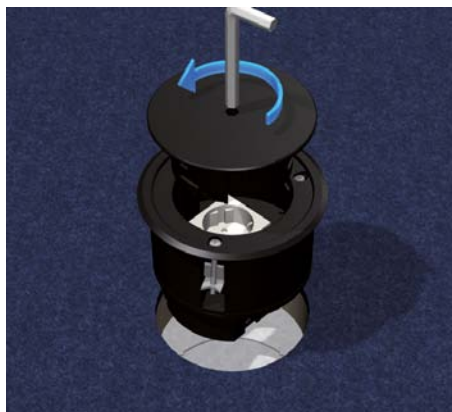
Assembly instruction



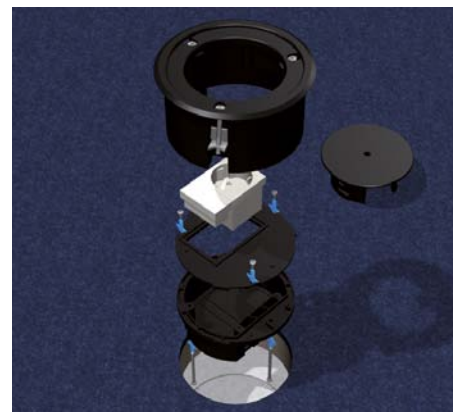
Round single outlet with protection frame made of synthetic material with an external diameter of 133 mm, equipped with an isolated ground receptacle or inspection chamber. For the installation into screed or raised floors. Other equipment options are available.



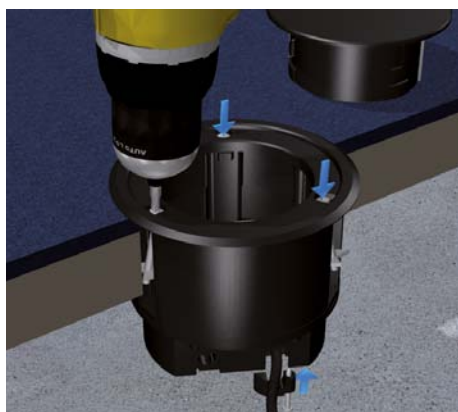
1 | Raised/hollow floors
Create a floor opening in screed or raised floor by means of shuttering or drill bit.



2 | Cable outlet cover
Open cable outlet cover with torx wrench (must be ordered separately) counter clock-wise by pulling it out.



3 | Assembly of receptacle
In order to connect disassemble the pre-converted single outlet, insert cable and connect to receptacle. Then assemble cover plate, receptacle and device cup.



4 | Fasten strain relief and frame
Insert the strain relieves from below and secure cable. Tighten claws with phillips head screws.



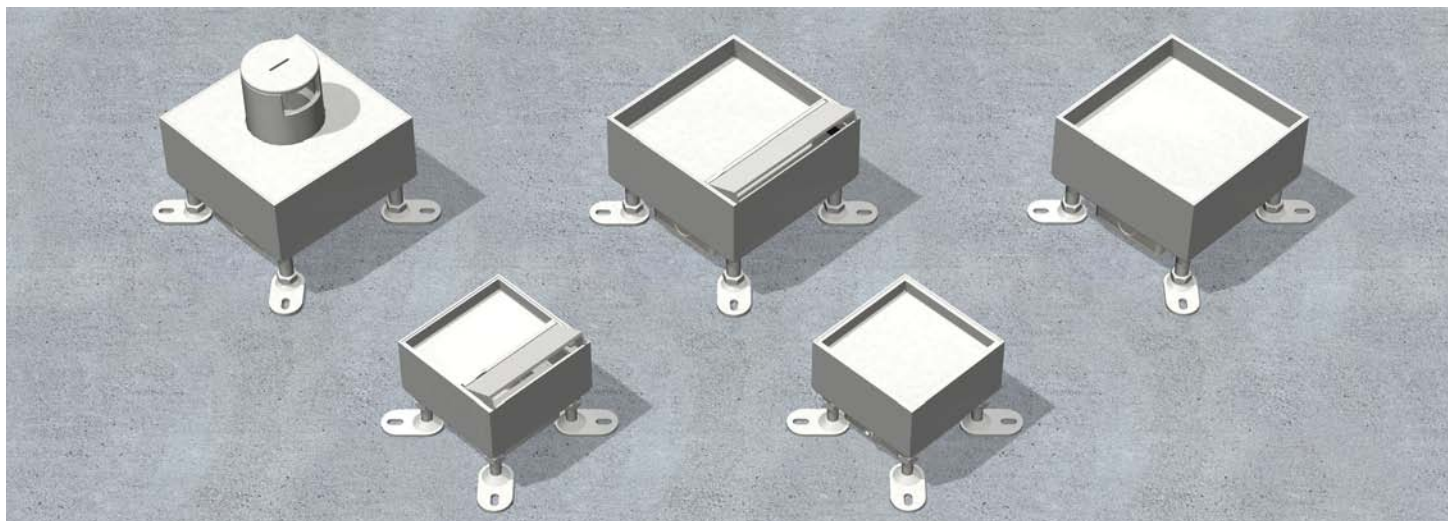
5 | Cable outlet
Place plug and insert cable outlet lid counter clockwise with bayonet locking device.



6 | Mounting
Lead the cable from an quadrangular or straight plug through the cable outlet.

Single outlet, quadrangular | Direct mounting in screed

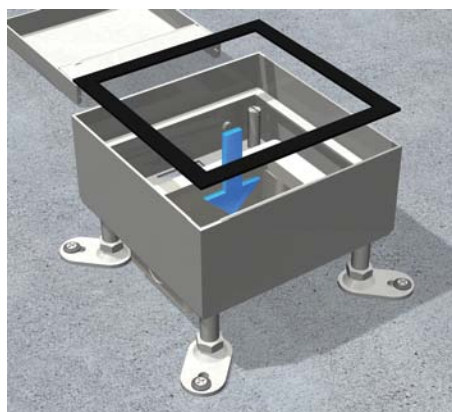
Assembly instruction



Quadrangular single outlets with outer measurements of 115 x 115 mm for the integration of up to two installation devices of 45 x 45 mm for direct screed mounting.



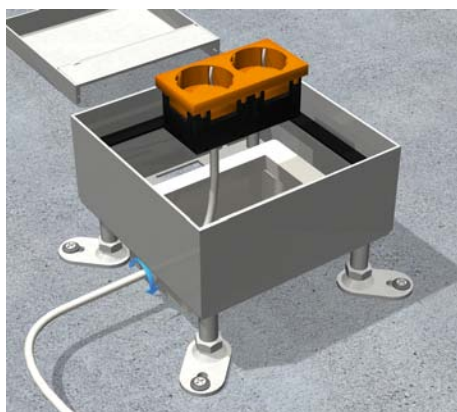
1 | Fixating
Mount the four levelling legs onto the rough concrete ceiling with nail plugs.



2 | Rubber sealing
Remove the lid and glue the rubber in place.



3 | Cable entry
For the cable entry use a tool to break the lateral perforation out of the frame and complete with strain relief.



4 | Safety sockets
Install electrical sockets and fuse strain relief.



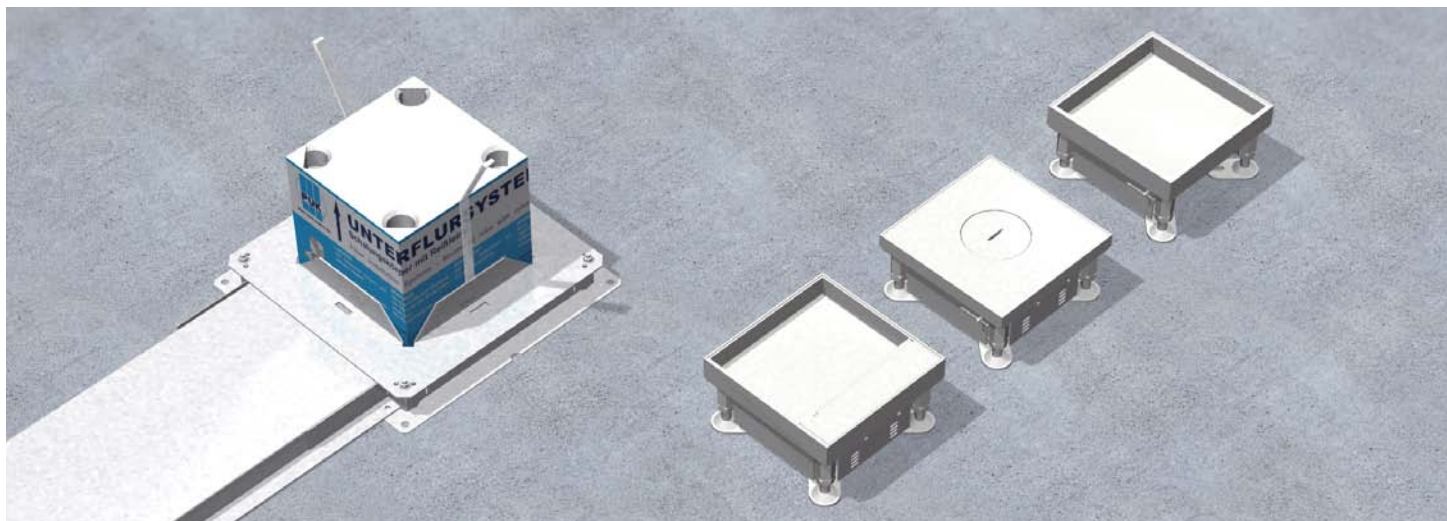
5 | Assembly
Latch the sockets into the frame. Factor the single outlet into the potential equalization.



6 | Floor adjustment
Place the single outlet abreast finished floor level flush with the four levelling screws. Screed can now be applied.

Single outlet, quadrangular | Hollow space floor box

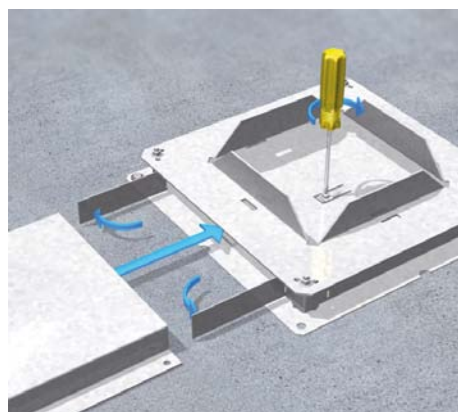
Assembly instruction



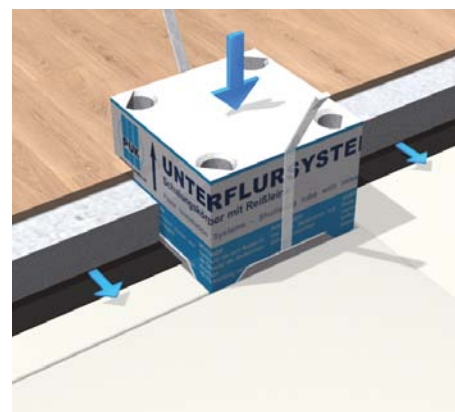
Quadrangular single outlets with external dimension of 160 x 160 mm for the integration of up to two installation devices of 45 x 45 mm for fixture in hollow space floor boxes.



1 | Hollow space floor box
Align floor box in the centre to cable run. Mount with two nail plugs.



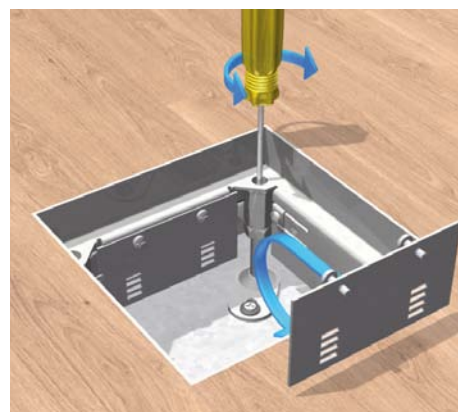
2 | Duct
Screw on earthing lug. Bend the sides of the floor box open along the perforation. Insert duct all the way into the box.



3 | Shuttering unit
Insert the shuttering unit, process screed to the body, remove the shuttering unit after precipitation.



4 | Fixation
Insert the frame and mount the four levelling legs onto the bottom of the hollow floor box with nail plugs.



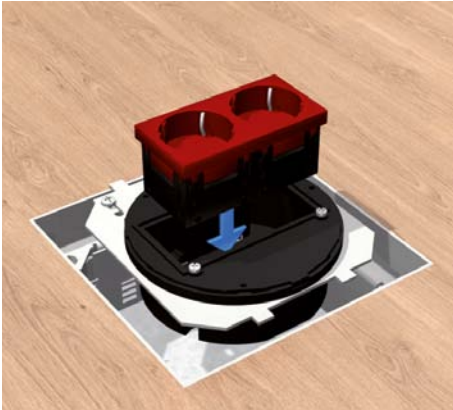
5 | Floor adjustment
Adjust the single outlet succinctly above the four levelling screws. Screw in the lock-in leads.



6 | Cover plate
Fix the cover plate onto the device cup with screws.

Single outlet, quadrangular | Hollow space floor box

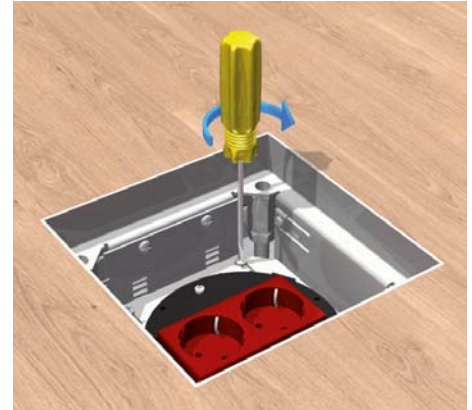
Assembly instruction



7 | Fixture of installation devices
Latch two installation devices 45 x 45 mm in the cover plate UARM-4-1 118.



8 | Device cup
Place the device cup into the plate, insert the ducts into strain relief and screw in the fixing bolt.



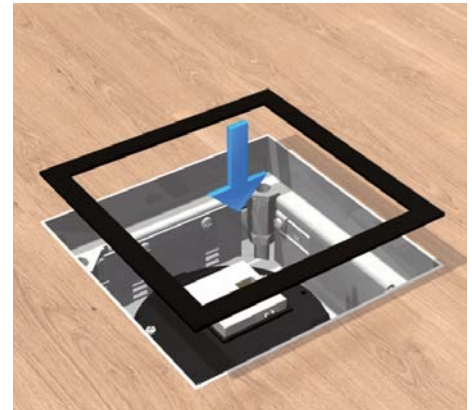
9 | Lock-in lead
Insert the plate above the plate slide as deeply into the lock-in leads as possible. For a stepwise shafting of the plate until up to 20 mm.



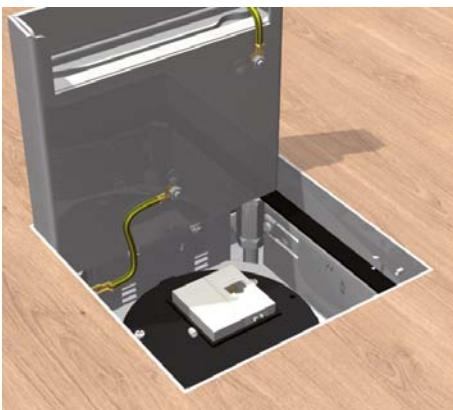
10 | Installation of installation devices
Latch one installation device 45 x 45 mm and one installation device 22,5 x 45 mm in cover plate UARM-3-1 118.



11 | Installation of installation devices
Latch two installation devices 22,5 x 45 mm in cover plate UARM-2-1 118.



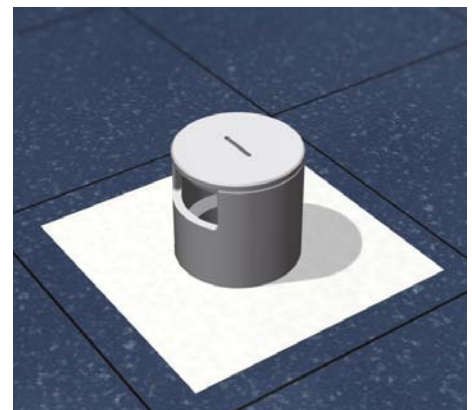
12 | Rubber seal
Glue the rubber seal into the frame.



13 | Earthing connection
Establish an earthing connection between the single outlet frame and the cover. Factor the single outlet into the potential equalisation.



14 | Single outlet
Close the cover.



15 | Tube
For wet maintenance floors install tube single outlet and tube.

Compact single outlet, quadrangular

Assembly instruction



Quadrangular compact single outlet, external dimensions 125 x 125 mm and 160 x 160 mm for installation directly into screed, suitable for dry and wet maintenance rooms. Scope of delivery contains floor box, stainless steel unit and shuttering unit. For parquet and stone floors of 12/22 mm levelling range: 80–125 mm or 90–135 mm.



1 | Floor box
Align floor box in dead centre as delivered. Bend open ears and fix to raw ceiling.



2 | Plastic conduit
Bend open perforation in the sides of floor box and insert plastic conduit.



3 | Casting screed
Seal all openings of the floor box as delivered and cast screed accurately to the shuttering unit. Remove shuttering unit when screed is hardened.



4 | Levelling to floor
Remove cartridge cover and rubber seal and adjust single outlet to floor height flush over the four levelling screws.



5 | Data systems
Insert connected data jacks from below into the plate. Fasten equipped plate at the side of the single outlet.



6 | Heavy current systems
Insert heavy current devices from the top and connect from below. Insert equipped plate using the snap tabs into the frame and fasten the opposite side.

Compact single outlet, quadrangular

Assembly instruction



7 | Assembly
Insert heavy current and low current plugs.



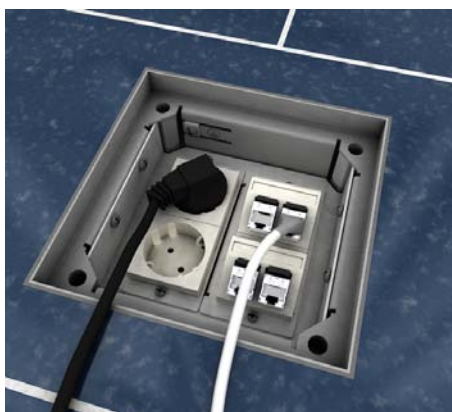
8 | Single outlet
Insert rubber seal and cartridge cover. In case of dry maintenance floors install cartridge unit with cable outlet. Comply with potential equalization.



9 | Installation devices
Latch sockets and data devices into plate and connect conducts.



10 | Single outlet frame
Fasten equipped plates to single outlet frame.



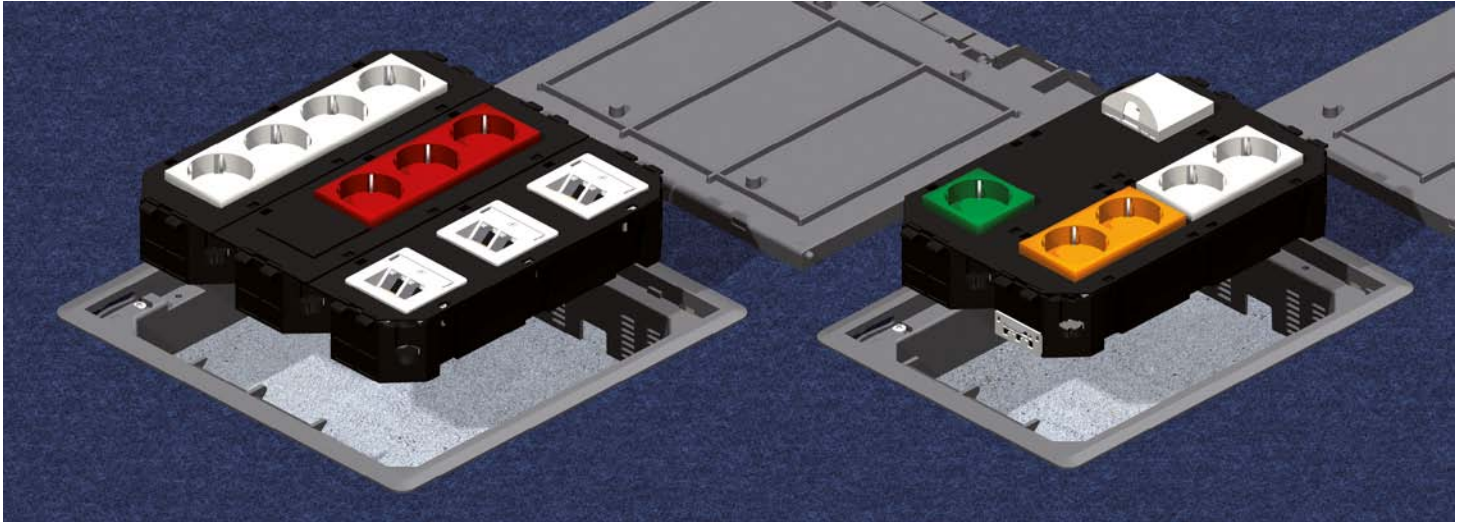
11 | Assembly
Insert heavy current and low current plugs.



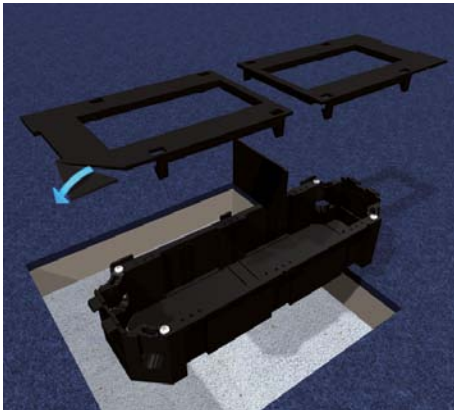
12 | Tube
Insert rubber seal and tube cover. In case of wet maintenance floors, mount single tube outlet and tube. Comply with potential equalization.

Device installation cups and installation devices

Assembly instruction

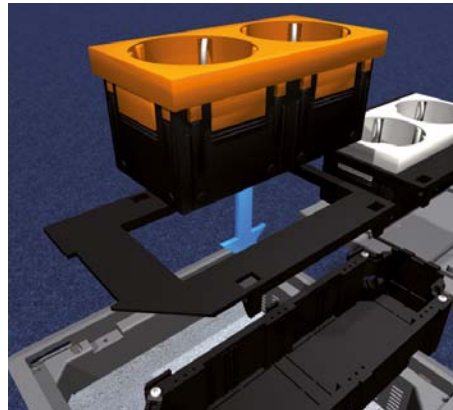


Device assembly container for locking into an assembly unit. For up to four installation devices for heavy current engineering or three installation devices for data systems technology.



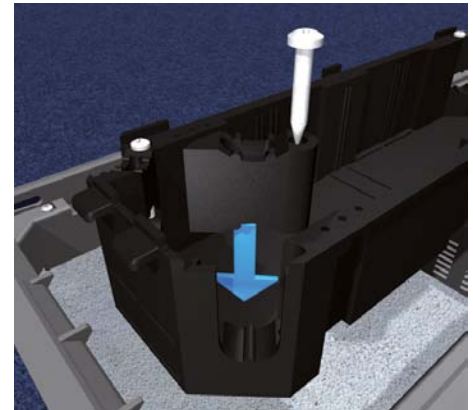
1 | Cover plates

Choose cover plates according to the requirements. Break off edges at the perforation if needed.



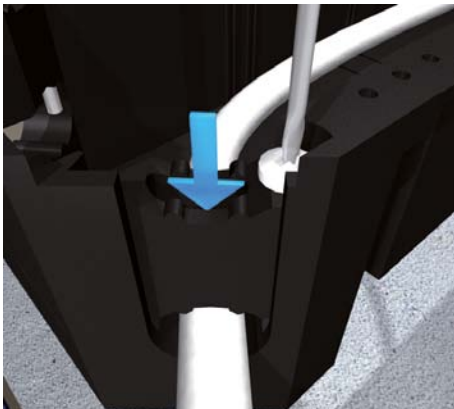
2 | Safety sockets

Snap safety sockets into the corresponding cover plate.



3 | Strain relief

Insert the four enclosed strain reliefs into the side openings of the device container and equip them with the fixing bolts.



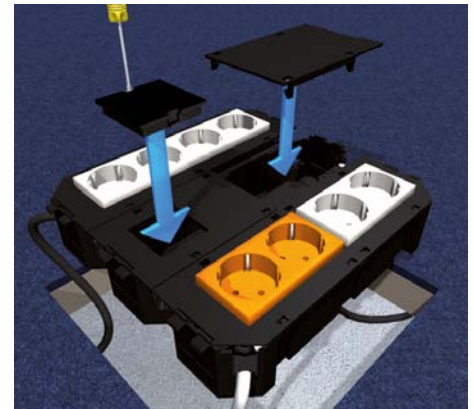
4 | Cables

Insert cables from Ø 6 to Ø 13 mm and fasten the bolt.



5 | Assembly

Install all components. Snap cover plates into the device container.

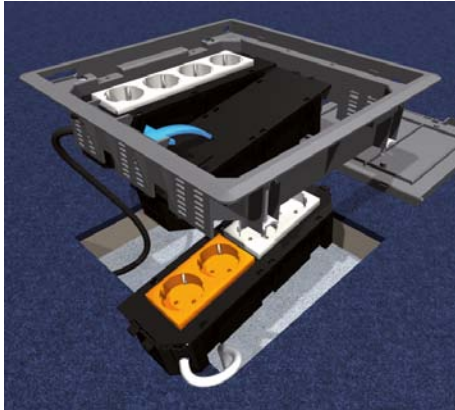


6 | Equipment

Equip empty spaces with dummy covers. Use tools for mounting and demounting of dummy covers.

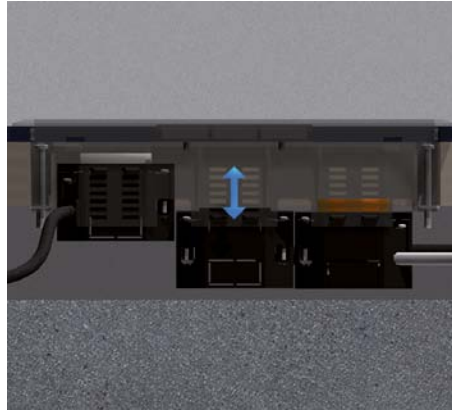
Device installation cups and installation devices

Assembly instruction



7 | Installation

Insert the device container as far as possible into the lock-in leads. Can be lowered down to 30 mm.



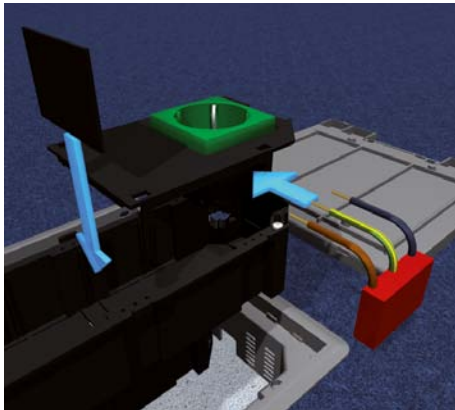
8 | Minimum / Maximum installation height

Minimum installation height 74 mm without device plugs and 88 mm for device plugs up to H = 35 mm. Maximum installation height 104 mm for device plugs up to H = 50 mm.



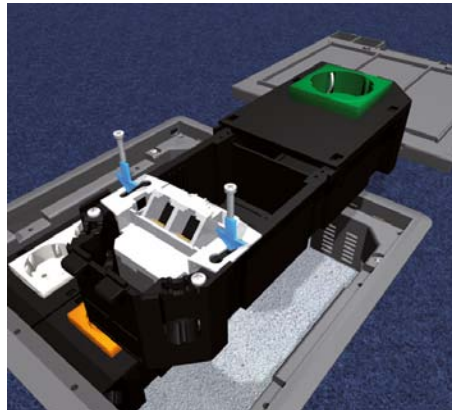
9 | Releasing device cup

Push mounting lever or screwdriver between frame and device cup. Release latches separately sideways and take out device cup.



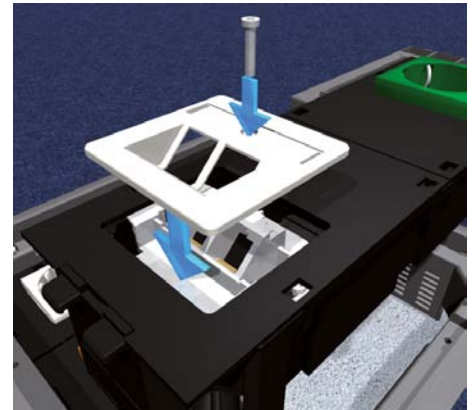
10 | Device separator

In case of different electric circuits and equipment use the device separator. Insert overvoltage protector into the push-terminals L, N and PE of the socket and complete with connecting line.



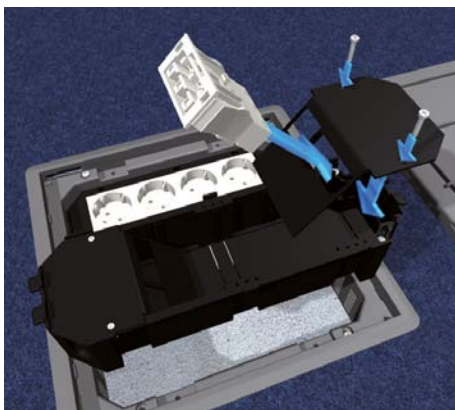
11 | Coultier clip installation devices

Lock in socket and overvoltage protector with the cover plate into the device cup. Screw installation devices with coultier clips into the device cup.



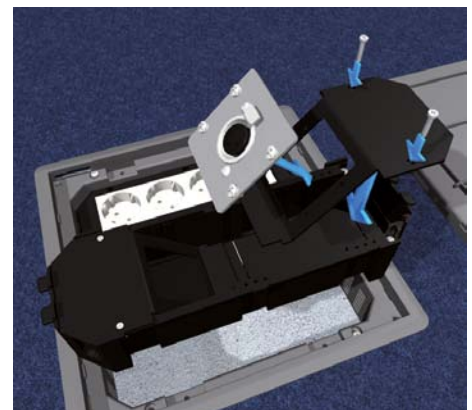
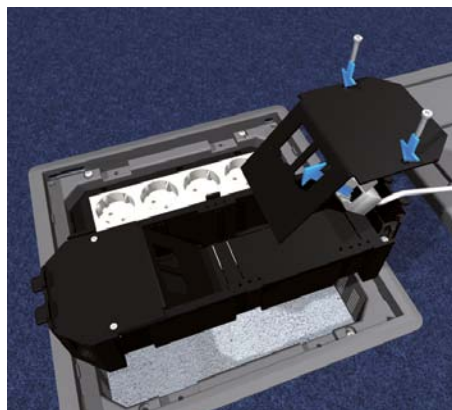
12 | Finalisation

Snap cover plates and screw cover in place. Close all openings with blind covers.



13 | Equipment of device cup

Quadrangular insert for half a device cup made of coated metal for components of data, fibre optic cable, audio and video technology, also for plug-in components and installation devices 45 x 45 mm. **Equip with up to two plug-in components according to the manufacturer's specifications and screw into the device cup.**

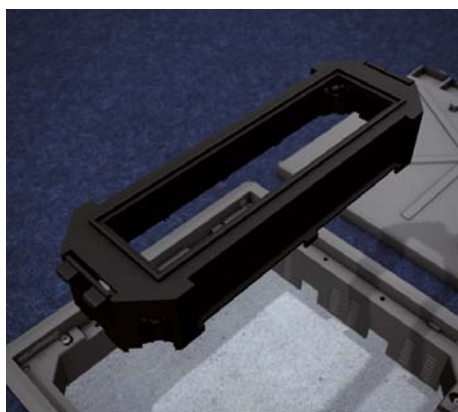


Device cup UG45

Assembly instruction

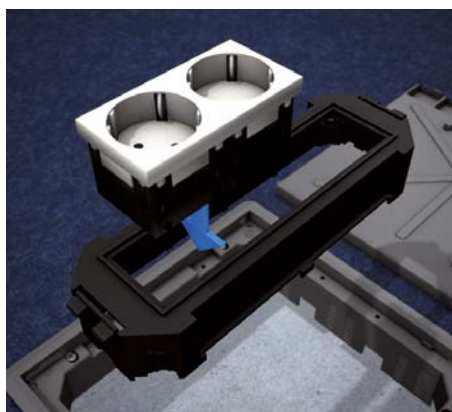


Installation and mounting must be done only by persons with appropriate electro-technical expertise and experience. Device cup UG45-4, for latching into an installation unit. Suitable for up to four heavy current engineering installation devices of 45 x 45 mm or eight installation devices of data technology / multimedia of 22,5 x 45 mm.



1 | System UG45

Installation devices can be inserted into the device cups UG45 directly from the top without additional cover plates. However, the use of heavy current engineering requires protection against contact from the bottom in the form of cover plates.



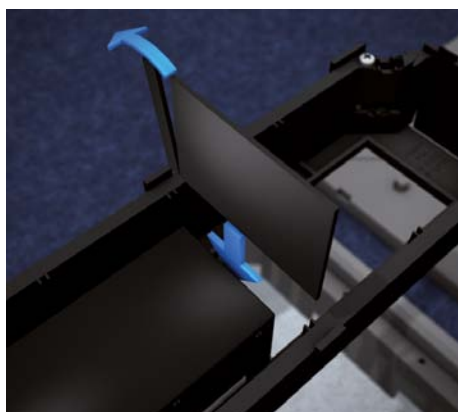
2 | Isolated ground receptacles

Latch isolated ground receptacles into the device cup from the top.



3 | Strain relief

Place the four strain reliefs included in the delivery into the side openings of the device cup, insert the cables of Ø 6 to Ø 13 mm into the strain reliefs, connect and secure using a fixing bolt.



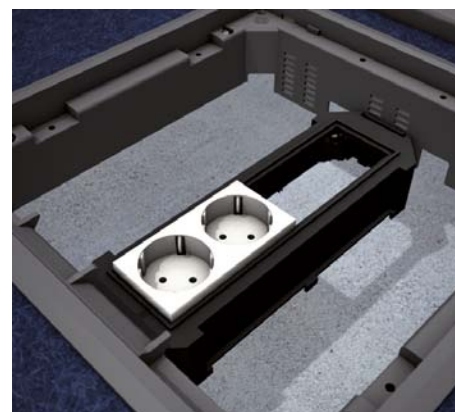
4 | Separating plate

Use separating plate in case of different electric systems and equipment. Break off separating plate along the side perforation and insert into the device cup from the bottom.



5 | Protection against contact

Installation devices of heavy current engineering require protection against contact in the form of a cover plate, to be latched below the device cup.

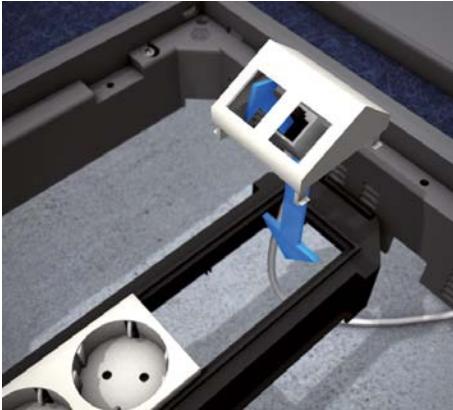


6 | Insertion

Latch the device cup as deeply into the lock-in lead as possible. The device cup can be lowered up to 30 mm.

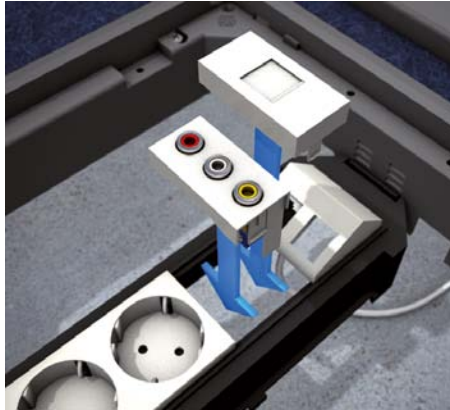
Device cup UG45

Assembly instruction



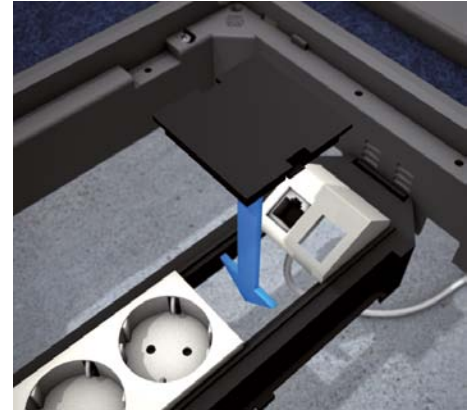
7 | Data coverage

Complete the data coverage using data single jacks and latch into the device cup from the top.



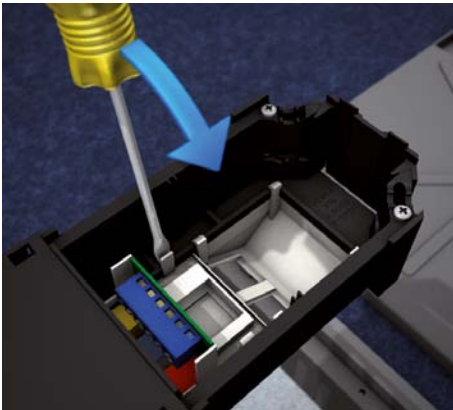
8 | Media modules

Latch the connected media modules into the device cup from the top.



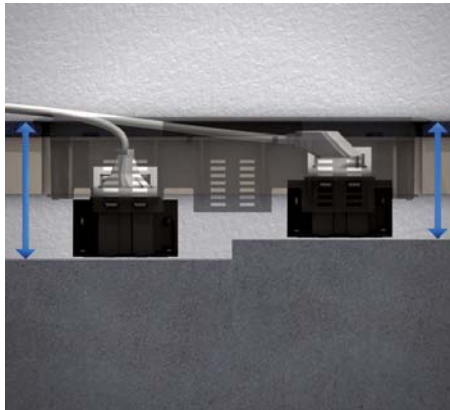
9 | Cover plate

Unused spaces are covered with dummy cover plates.



10 | Releasing of components

Insert screwdriver between previously turned device cup and installation device of data technology, respectively heavy current engineering. Loosen latches individually and remove installation device.



11 | Minimum / maximum installation height

Minimum installation height when using an angle plug and the level 4 lock-in position: 81 mm. Maximum installation height when using a straight plug and the lowest lock-in position: 100 mm.



12 | Data device

After the completed equipment of the device cup, the patch cables can be plugged into the data device allowing for a bending radius of 45°.



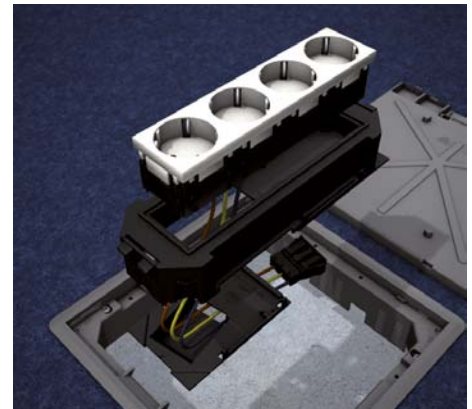
13 | Heavy current

The device cup can be loaded with up to four heavy current engineering components.



14 | Data and media technology

The device cup can be loaded with up to eight data/media technology components.

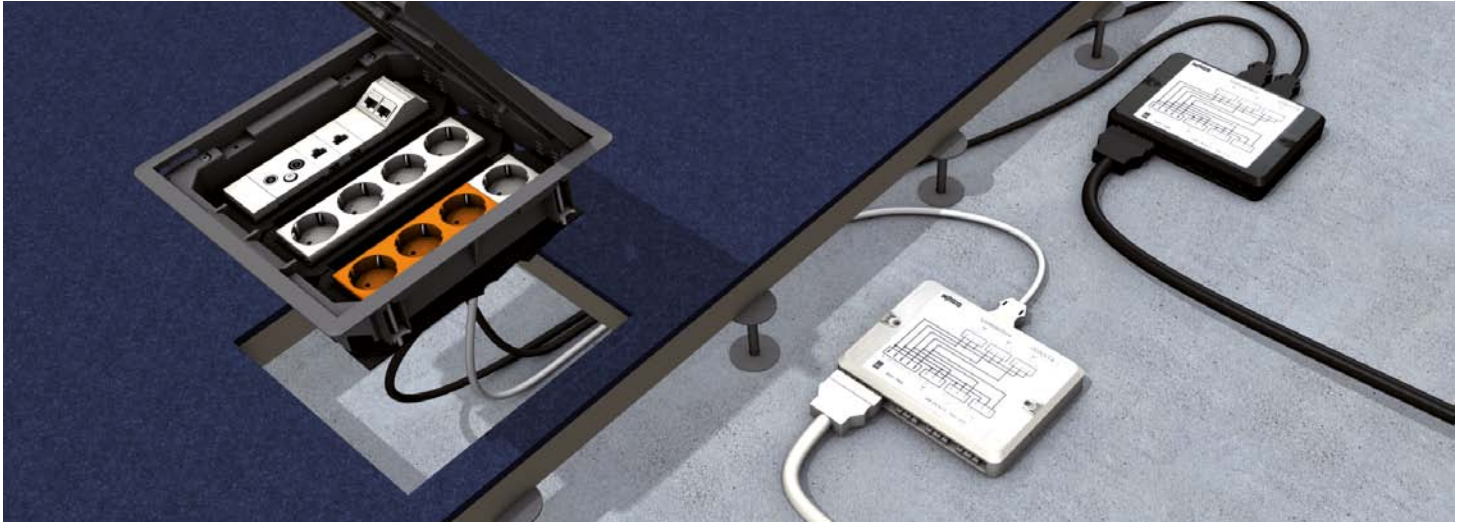


15 | Pre-assembled device cup

The device cups can be pre-assembled using the snap-in cover plate UAVS 113 and a snap-in piece. The pre-assembled device cups are delivered factory-provided fully pre-assembled with receptacles and prewired on device connectors.

Connector system WAGO | Device cup, pre-converted

Assembly instruction



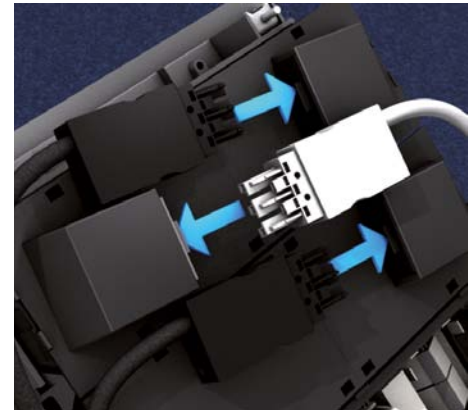
Pre-converted device cup, complete with snap-in plug component and pre-wired sockets. Including all covers and mounting material. For latching into a round or quadrangular installation unit. For up to four heavy current engineering installation devices. For the installation of 3-pole connecting lines with plug connector and socket component.



1 | Pre-converted device cups
Delivery of device cups: fully pre-mounted with sockets and pre-wired on connector plugs.



2 | Device mounting cup
Place the pre-converted device cup into the lock-in leads of the installation units as deep as possible.



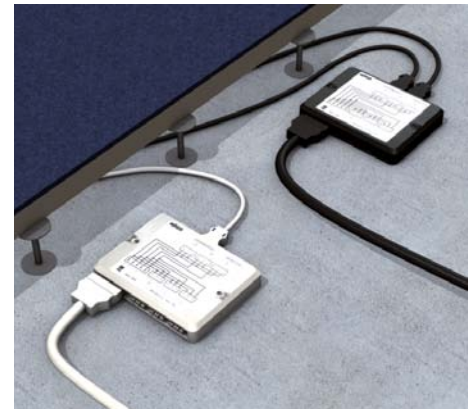
3 | Connecting lines
Select cables according to colour (black: general net, white: data processing net) and length. Insert the socket component of the 3-pole connecting line onto the snap-in piece in the device cup.



4 | Installation unit
Place the complete installation unit with the device cups from the top into the existing floor opening and fixate in the floor with claws.



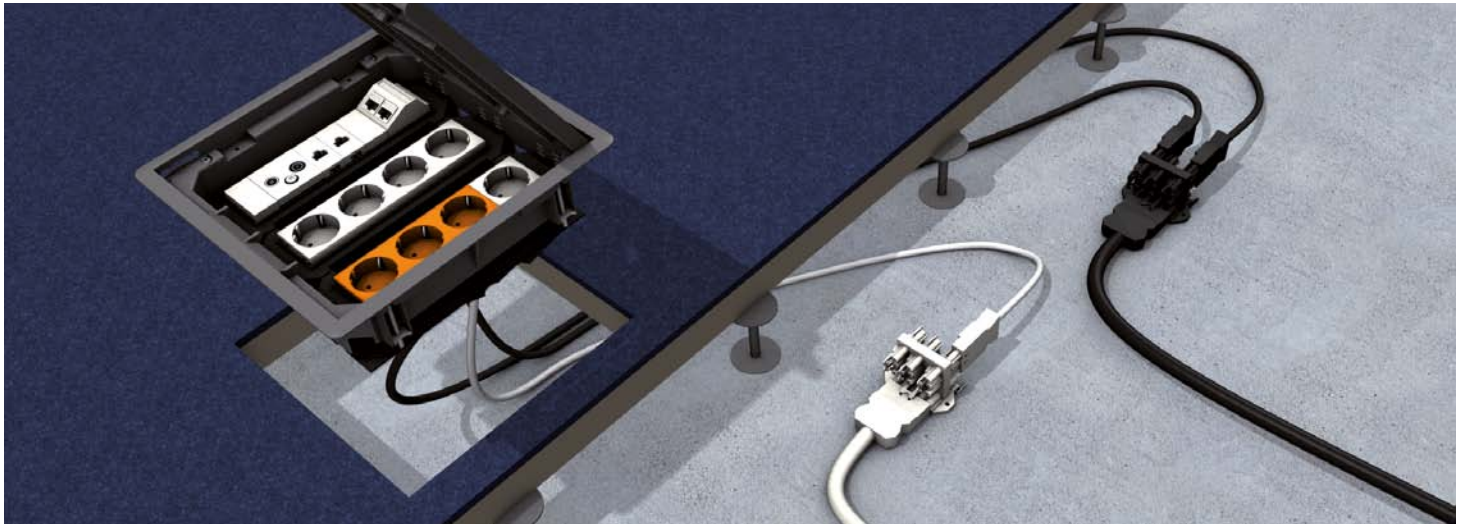
5 | Plug connector
Self-locking and coded plug connectors facilitate faultless mounting with the device cup. To release, unlatch the grey spring catch with a turn screw.



6 | Underfloor distributor
Insert the plug of the 3-pole connecting line in one of the six output sockets of the distributor and complete with 5-pole input.

Connector system Wieland | Device cup, pre-converted

Assembly instructions



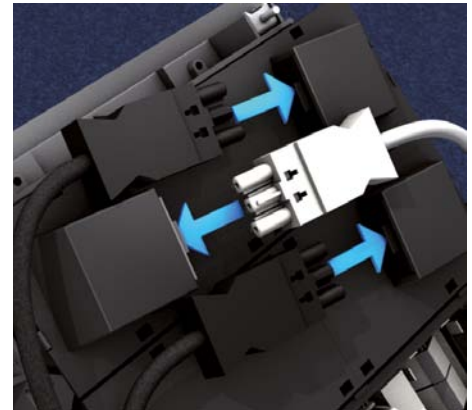
Pre-converted device cup, complete with snap-in plug component and pre-wired sockets. Including all covers and mounting material. For latching into a round or quadrangular installation unit. For up to four heavy current engineering installation devices. For the installation of 3-pole connecting lines with plug connector and socket component.



1 | Pre-converted device cups
Delivery of device cups: fully pre-mounted with sockets and pre-wired on connector plugs.



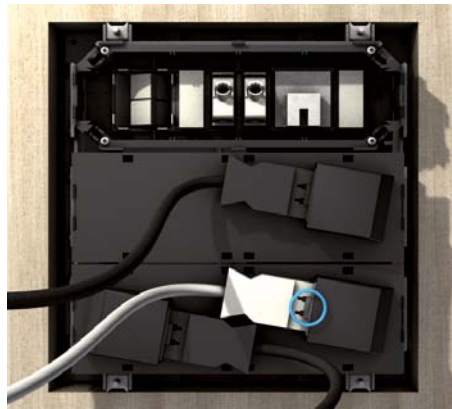
2 | Device mounting cup
Place the pre-converted device cup into the lock-in leads of the installation units as deep as possible.



3 | Connecting lines
Select cables according to colour (black: general net, white: data processing net) and length. Insert the socket component of the 3-pole connecting line onto the snap-in piece in the device cup.



4 | Installation unit
Place the complete installation unit with the device cups from the top into the existing floor opening and fixate in the floor with claws.



5 | Plug connector
Self-locking and coded plug connectors facilitate faultless mounting with the device cup. To release, unlatch the spring catch with a turn screw.



6 | Underfloor distributor
Insert the plug of the 3-pole connecting line in one of the six output sockets of the distributor and complete with 5-pole input.

Flat conductor adapter FI/LS 6 A

Assembly instruction



Installation must be carried out by a person with electrical and technical knowledge and experiences (see DIN VDE 0620-1).



Pre-tailored device cups with a snap-in device socket, pre-wired sockets, a flat conductor adapter connected to a 2 m/3 m connecting cable (3 x 2.5 mm²) with 3-pole plug and 6 A FI/LS switch. Including all covers and assembly materials. To be latched into a round or square installation unit. For direct connection to 5 x 2.5 mm² / 4 mm² flat conductors. Fuse of 20 A.



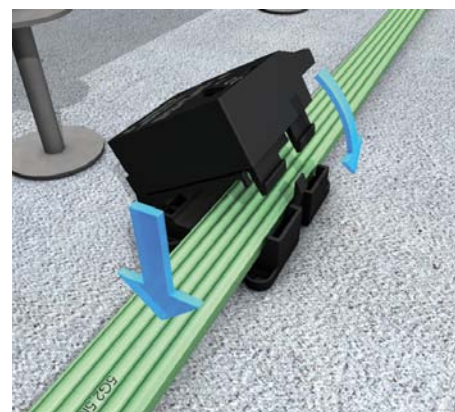
1 | Delivery

We deliver the pre-tailored device cup with a double isolated ground receptacle completely pre-assembled with a FI/LS-switch 6 A, connecting cable, flat cable adapter and snap-in device socket.



2 | Operate the flat cable adapter

Open the lower case chamber of the connection module.



3 | Insert the flat cable

Insert the flat cable into the coded base plate. Keep in mind the correct installation direction for the outgoing direction of the connector. Afterwards close the connection module.



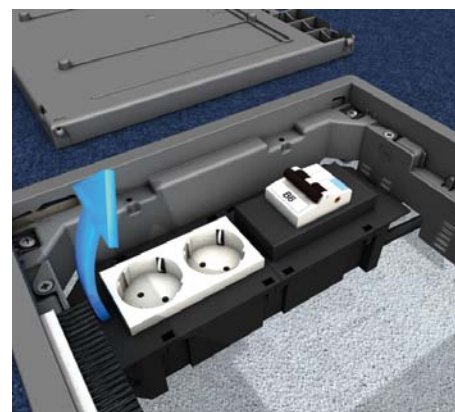
4 | Fasten the flat cable

Open the upper case chamber and fasten flat cable to the connector module with screws. Pay attention to the correct torque (0.5 Nm)! The code is preset to L1. If necessary, fasten the bottom plate with the pre-mounted holes onto the desired ground.



5 | Close connection module

After fixing the cables close the upper case chamber and lock with a clearly audible click. If the cover does not close completely, not all screws have been tightened correctly. Attach the connecting cable with plug component to the flat cable adapter and lock it with an audible click.



6 | Install device cup

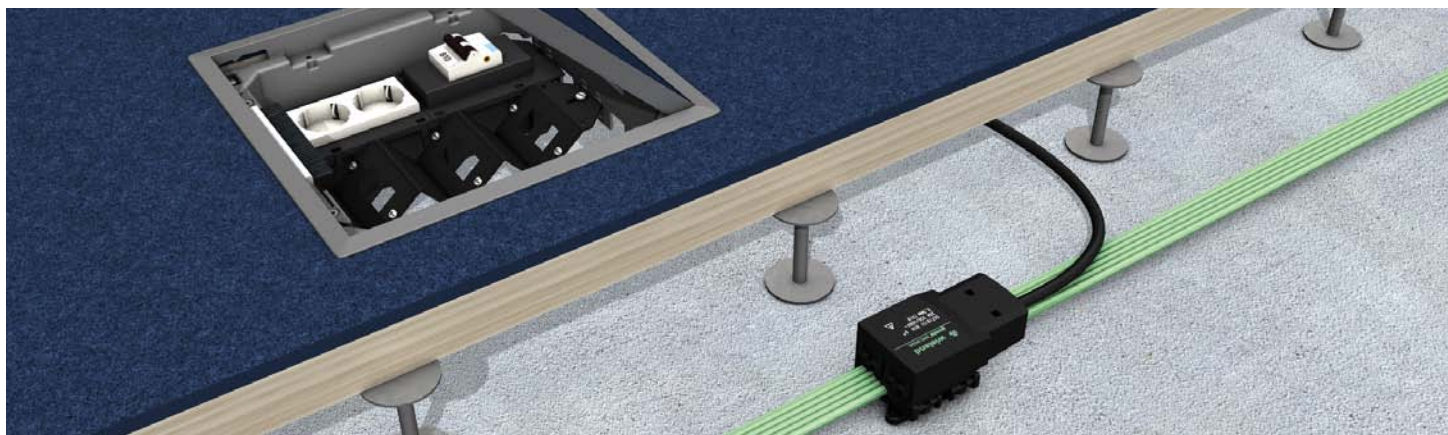
Insert the pre-tailored device cups as deeply as possible into the lock-in leads of the installation unit. Leave the central device cup slot empty to install data technology later on.

Flat conductor adapter FI/LS 10 A

Assembly instruction



Installation must be done by persons with the necessary electrical and technical knowledge and experiences (DIN VDE 0620-1).



Pre-tailored device cups with a snap-in device socket, pre-wired sockets, a flat conductor adapter connected to a 2 m/3 m connecting cable (3 x 4 mm²) and 10 A FI/LS switch. Including all covers and assembly materials. To be latched into a round or square installation unit. For direct connection to 5 x 2.5 mm² / 4 mm² flat conductors. Fuse of 20 A.



1 | Delivery

We deliver the pre-tailored device cup with a double isolated ground receptacle completely pre-assembled with FI/LS-switch 10 A, connecting cable, flat conductor adapter and snap-in device socket.



2 | Operate the flat conductor adapter

Open the bottom chamber of the connector module.



3 | Insert the flat cable

Insert flat cable flush into the coded floor board. Keep the installation direction in mind with regard to the outlet direction of the plug-in connectors.



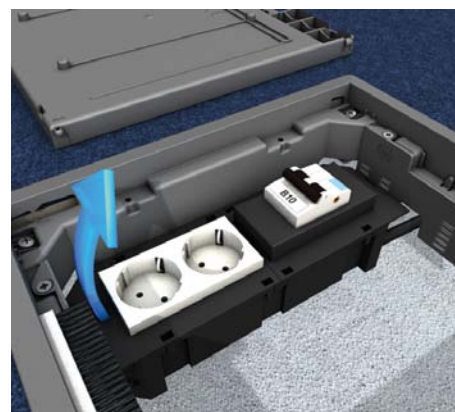
4 | Fasten flat conductor

Open the top body chamber and fasten the flat conductor to the connector module using screws. Pay attention to the correct torque (0,5 Nm)! The code is preset to L1. If necessary, fasten the bottom plate with the pre-mounted holes onto the desired substrate.



5 | Close the connector module

After fixing the cables close the upper case chamber and lock with a clearly audible click. If the cover does not close completely, not all screws have been tightened correctly!



6 | Install device cup

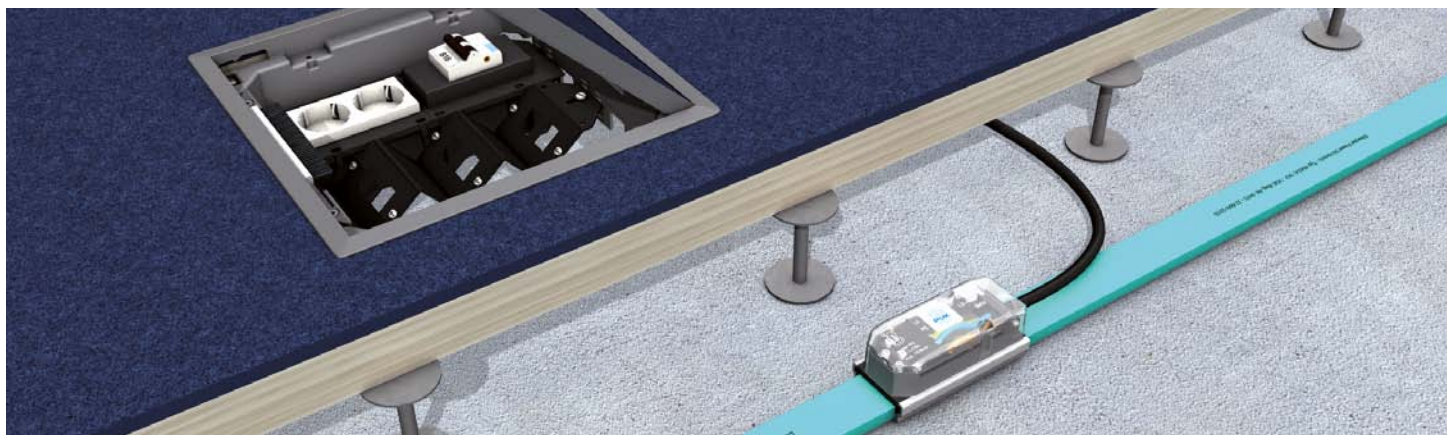
Insert the pre-tailored device cups as deeply as possible into the lock-in leads of the installation unit. Leave the central device cup slot empty to install data technology later on.

Flat conductor adapter FI/LS 16 A

Assembly instruction



Installation must necessary be done by persons with the electrical and technical knowledge and experiences (DIN VDE 0620-1).



Pre-tailored device cups with a snap-in device socket, pre-wired sockets, a flat conductor adapter connected to a 2 m/3 m connecting cable (3 x 4 mm²) and 16 A FI/LS switch. Including all covers and assembly materials. To be latched into a round or square installation unit. For direct connection to 5 x 10 mm² flat conductors. Fuse of 50 A.



1 | Delivery

We deliver the pre-tailored device cup with a double isolated ground receptacle completely pre-assembled with FI/LS-switch 16 A, connecting cable, flat cable adapter and snap-in device socket.



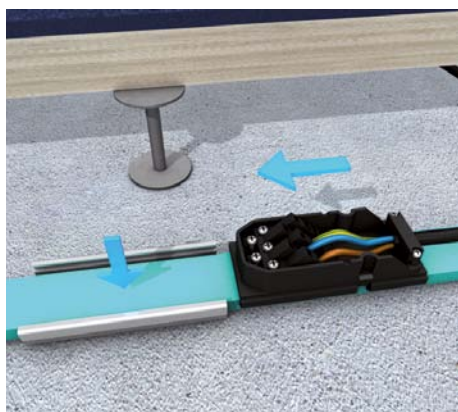
2 | Select phase

Remove body from cover and select phase. Phase pre-set to L1 according to the delivery condition.



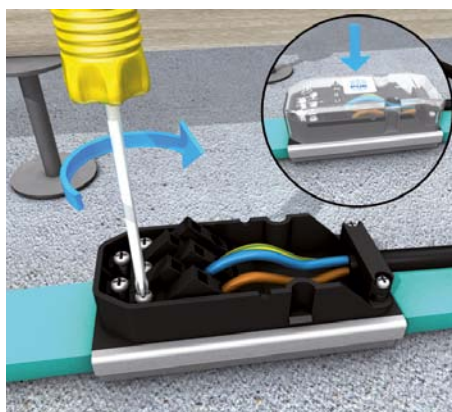
3 | Remove body

To insert the flat cable the connector module must be removed from the conductor. Keep the installation direction in mind when assembling the cable!



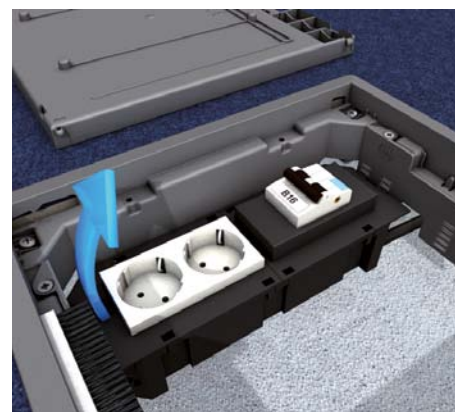
4 | Insert the flat cable

Place connector module onto the flat cable and insert into the coded conductor.



5 | Fasten flat cable

Fasten flat cable to the connector module with screws, then place body onto the cover. Pay attention to the correct torque (1,2 - 1,4 Nm)! If the cover does not close completely, not all screws have been tightened correctly!

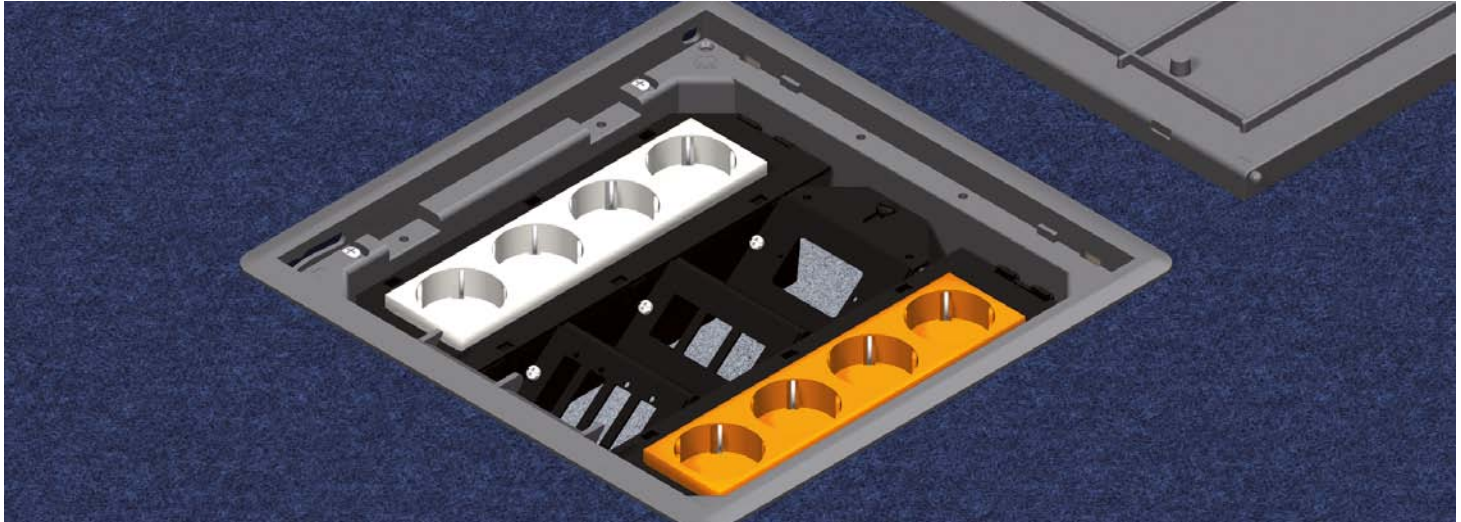


6 | Install device cup

Insert the pre-tailored device cups as deeply as possible into the lock-in leads of the installation unit. Leave the central device cup slot empty to install data technology later on.

Data-device carriers

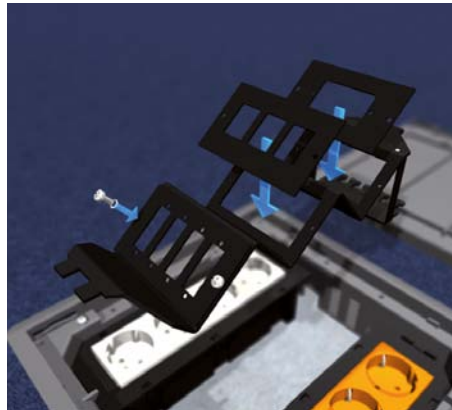
Assembly instruction



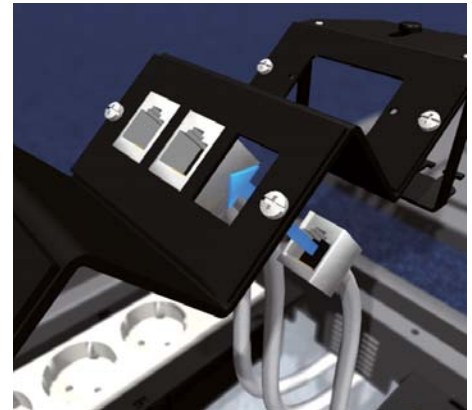
Data device carrier made of coated metal for snapping into the installation unit. For installation of up to nine single installation devices of data, audio and video technology, also for components of plug-in technology.



1 | Strain relief
Screw device carrier with strain relief tight before installation.



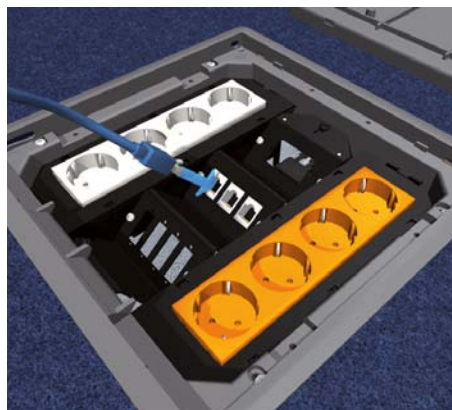
2 | Fitted board
Equip device carrier with up to three fitted boards according to the product specifications and screw tight.



3 | Single devices
Snap data single jack with feed cable into the fitted board from below. Screw single devices tight according to the specifications.



4 | Assembly of data-device carriers
Insert device carrier into the installation unit's lock-in leads and secure the latch on the opposite side with a screw into the lock-in.



5 | Tailoring
Complete device cup with the corresponding cables of manufacturer. Note the installation height.



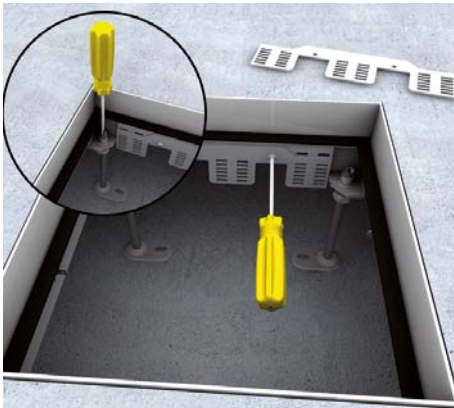
6 | Device carrier
Insert installation devices with couler clip into the device carrier from below and screw tight. Insert cover from above.

Device carrier CEE socket

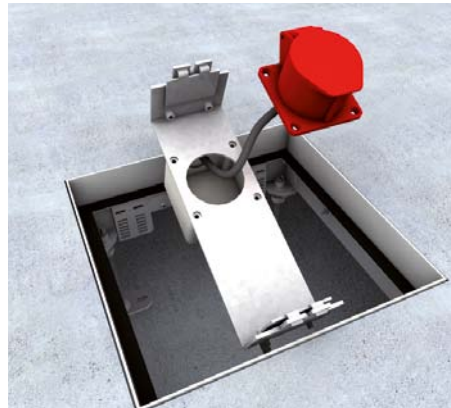
Assembly instruction



Carrier made of sheet steel with CEE socket 16A or 32A and box for centre installation into a round or quadrangular installation unit. Necessary installation height must be complied with before assembly.



1 | Levelling unit
Position installation frame on finished floor level height flush with levelling legs. Screw the locking ladder set sideways to the frame. Locking ladder set available at 50 or 80 mm height.



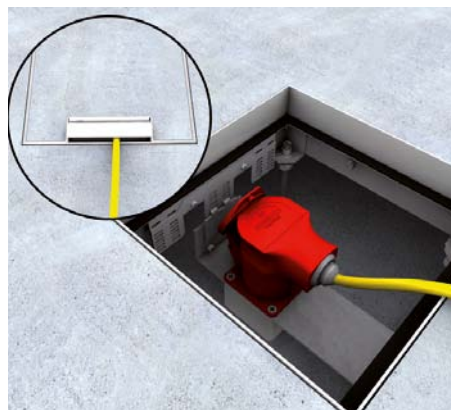
2 | CEE-Connection socket
Detach CEE socket from box and device carrier by unscrewing four screws. Insert rubber seal. Insert connecting cable into container and clamp to CEE box. Reassemble device carrier completely.



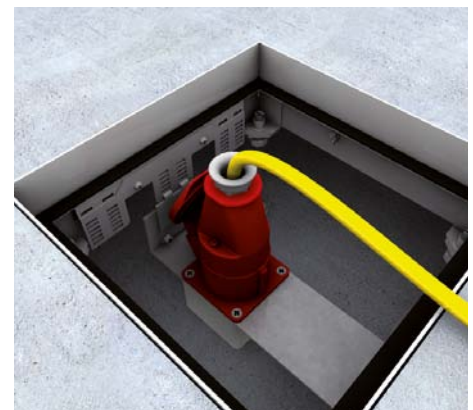
3 | Device carrier
Release socket screws on device carrier and lock-in lead. Insert the assembled device carrier into the lock-in leads from the bottom. Open hexagon socket bead and insert sideways.



4 | Lock-in lead
Device carrier with CEE socket and box in lock-in lead suitable for floor constructions from 160 mm. Always use the lowest locking position. Clamp device carrier firmly with a socket head wrench.



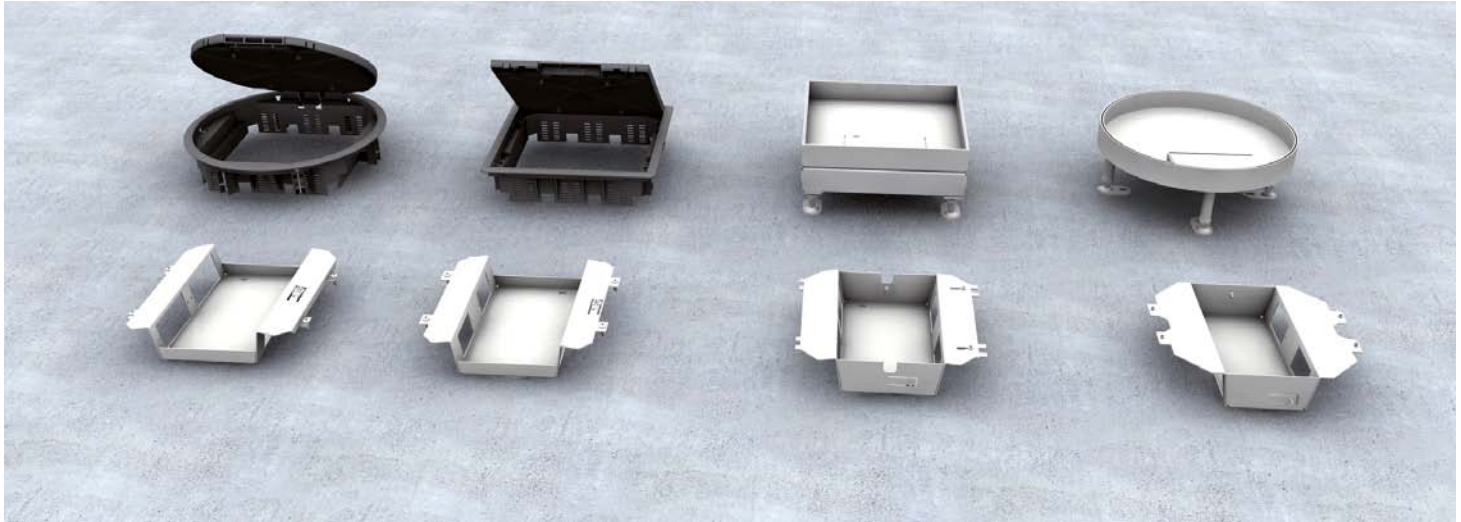
5 | Angle Plug
For floor constructions of at least 185 mm. Insert angle plug from and cartridge cover with cable outlet. Comply with bending radius to avoid pinched cables.



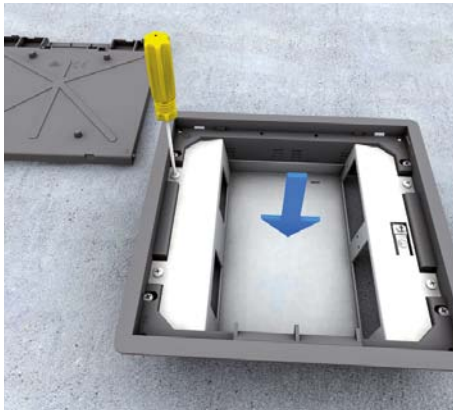
6 | Straight connector
When using a straight connector, note that the cover cannot be closed while in use. Protect installation unit – accident risk!

Device inserts

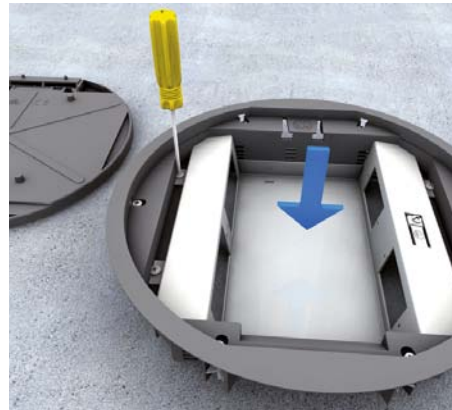
Assembly instruction



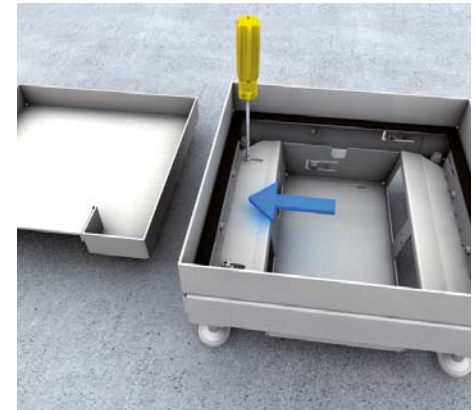
Device insert made of galvanised steel plate. To be inserted into round or quadrangular installation units made of plastic or stainless steel. For the accommodation of up to four installation devices of 45 x 45 mm and of six data single jacks. Suitable for floor constructions of at least 65 mm.



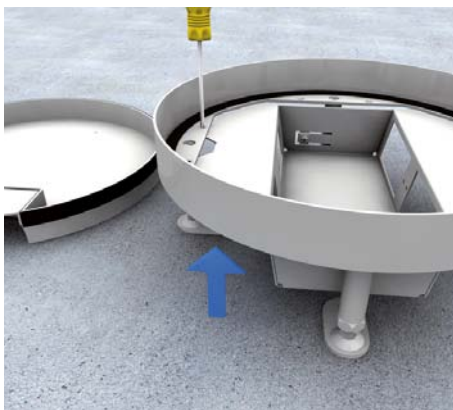
1 | Device insert, plastic, quadrangular
Place device insert into quadrangular plastic installation unit from the top and tighten firmly using four thread-rolling screws.



2 | Device insert, plastic, round
Place device insert into round plastic installation unit from the top and tighten firmly using four thread-rolling screws.



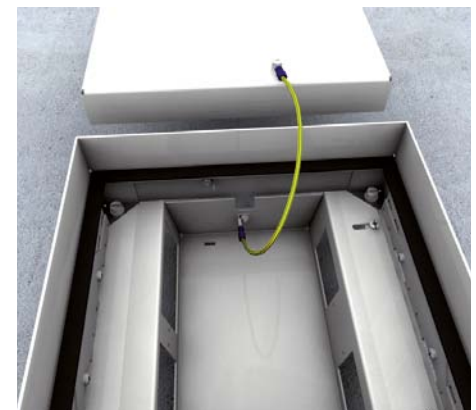
3 | Device insert, stainless steel, quadrangular
Place device insert sideways into quadrangular stainless steel installation unit and fix with two sliders in the existing snap-in holes of the levelling unit.



4 | Device insert, stainless steel, round
Place device insert into round stainless steel installation unit from the bottom and tighten firmly to frame with four countersunk head screws.



5 | Potential equalisation steel plate
All steel plate parts must be included in the potential equalisation. Screw earthing connection to the existing earthing lug.



6 | Potential equalisation cover
Create potential equalisation between cover and frame with plug-in earth conductor.

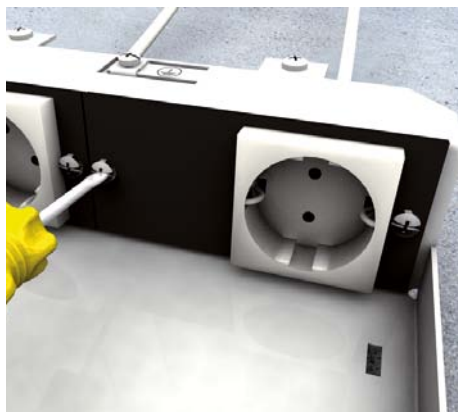
Device inserts

Assembly instruction



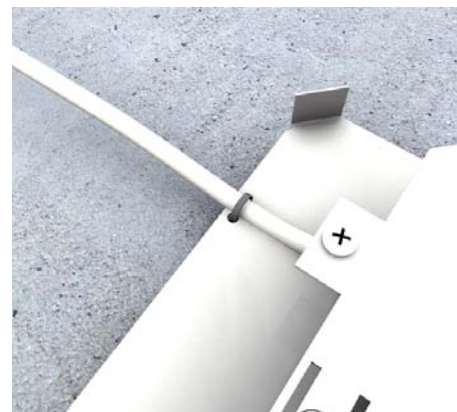
7 | Isolated ground receptacles 33°

Latch 45 x 45 mm installation technology into front side of adapter board UGEE2, mount connecting cable to the isolated ground receptacle and screw the entire component to the device insert. Up to two double isolated ground receptacles can be used per device insert.



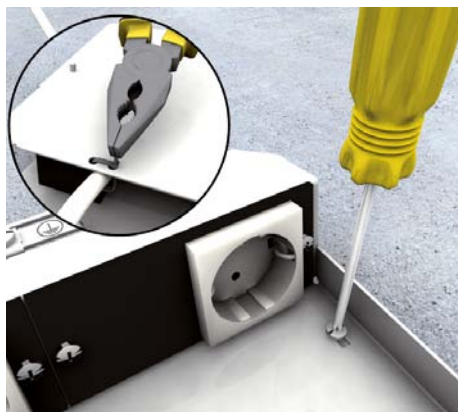
8 | Isolated ground receptacles 0°

Latch installation technology 45 x 45 mm into front side of adapter board UGEE1, mount connecting cable to the isolated ground receptacle and screw the entire component to the device insert. Up to two single isolated ground receptacles can be used per device insert.



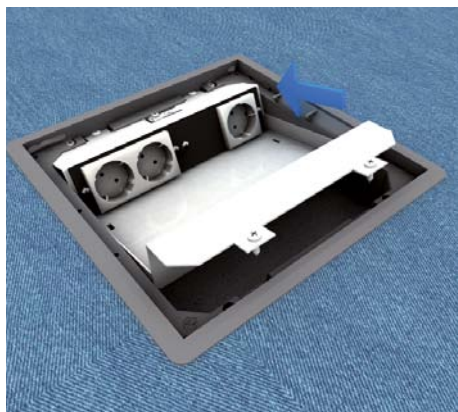
9 | Strain relief

The high-voltage current technology must be secured to the cover plate UGE VR(K/E) against pulling direction using a cable retainer before installing the device insert. The strain relief of the data technology occurs directly at the single data jack.



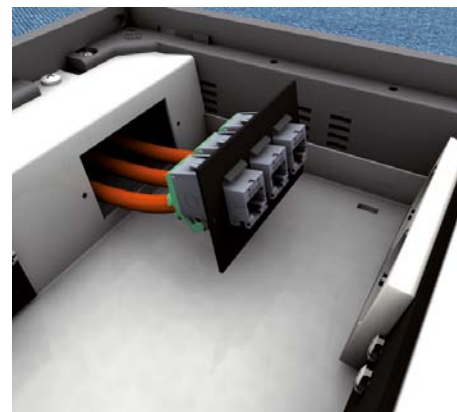
10 | Cover plate

Position cover plate as a protection against contact below the high-voltage current side and screw to the device insert from the bottom. Then pull strain relief tight.



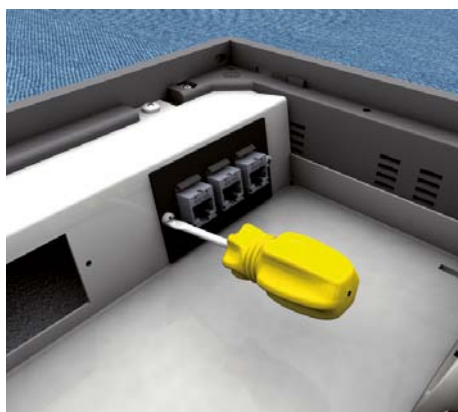
11 | Installation unit

The device insert, pre-assembled to the heavy current technology, must be inserted into the installation unit sideways from the top.



12 | Data technology

The equipment of data technology is completed on the opposite side. The connected data single jacks are to be latched into the installation opening of the adapter board UDEP from the back.



13 | Single data jack

The boards with data technology must be screwed to the device insert. The type of board must be selected depending on the manufacturer. Up to six data single jacks can be used per device insert.



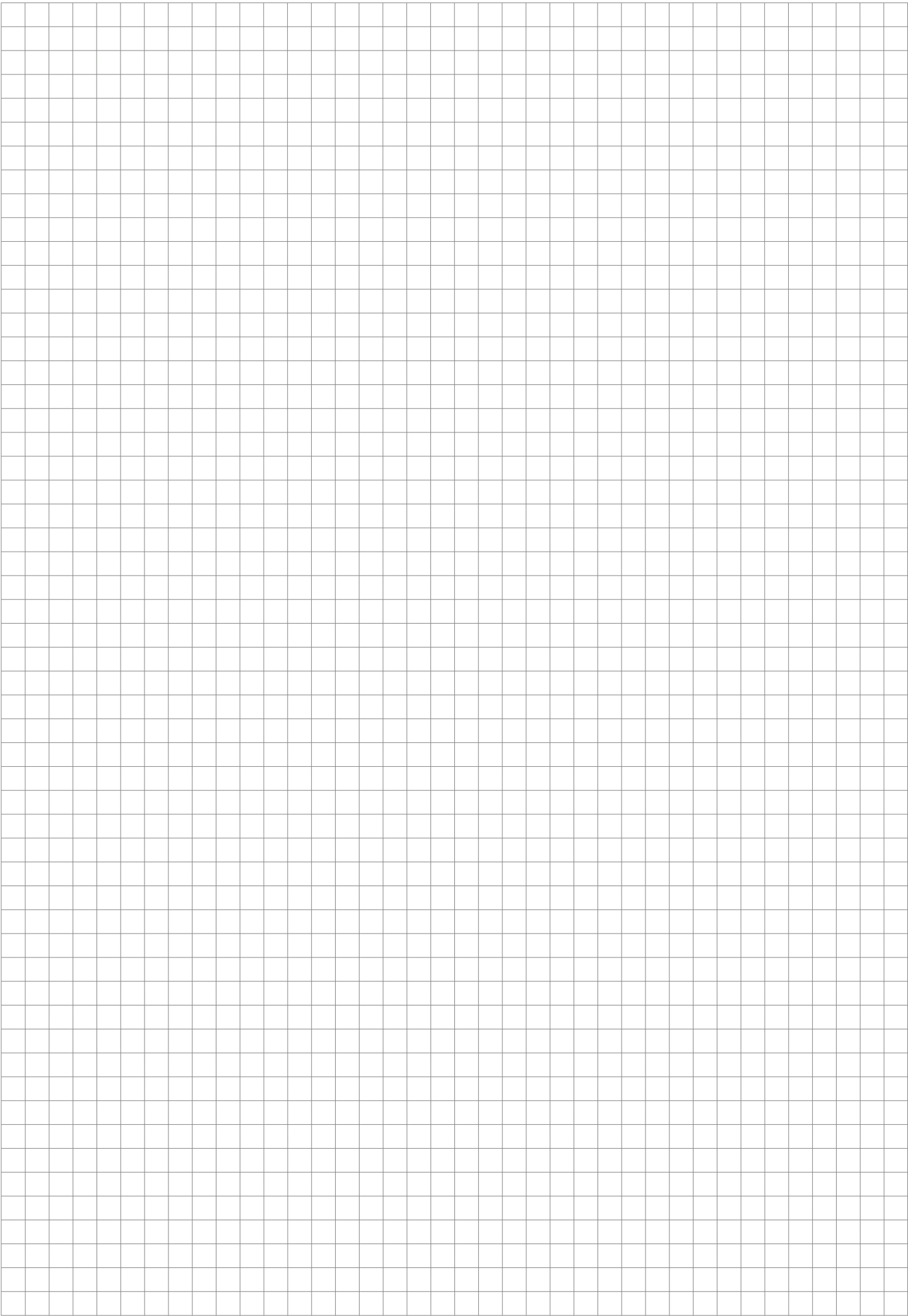
14 | Device insert

Finally, the device insert must be firmly connected to the installation unit with screws.



15 | Angle plugs and straight plugs

High voltage current cables or data technology cables can be connected via angle plugs and straight plugs. Comply with space requirements and dimensions of the connection system.



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End plate for plastic units UGE VRK [D29](#)

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insert board, shockproof socket UGEE 2 UST45 [D28](#)

Louver UGEE3 2 [D28](#)

Power engineering [D32-D33](#)

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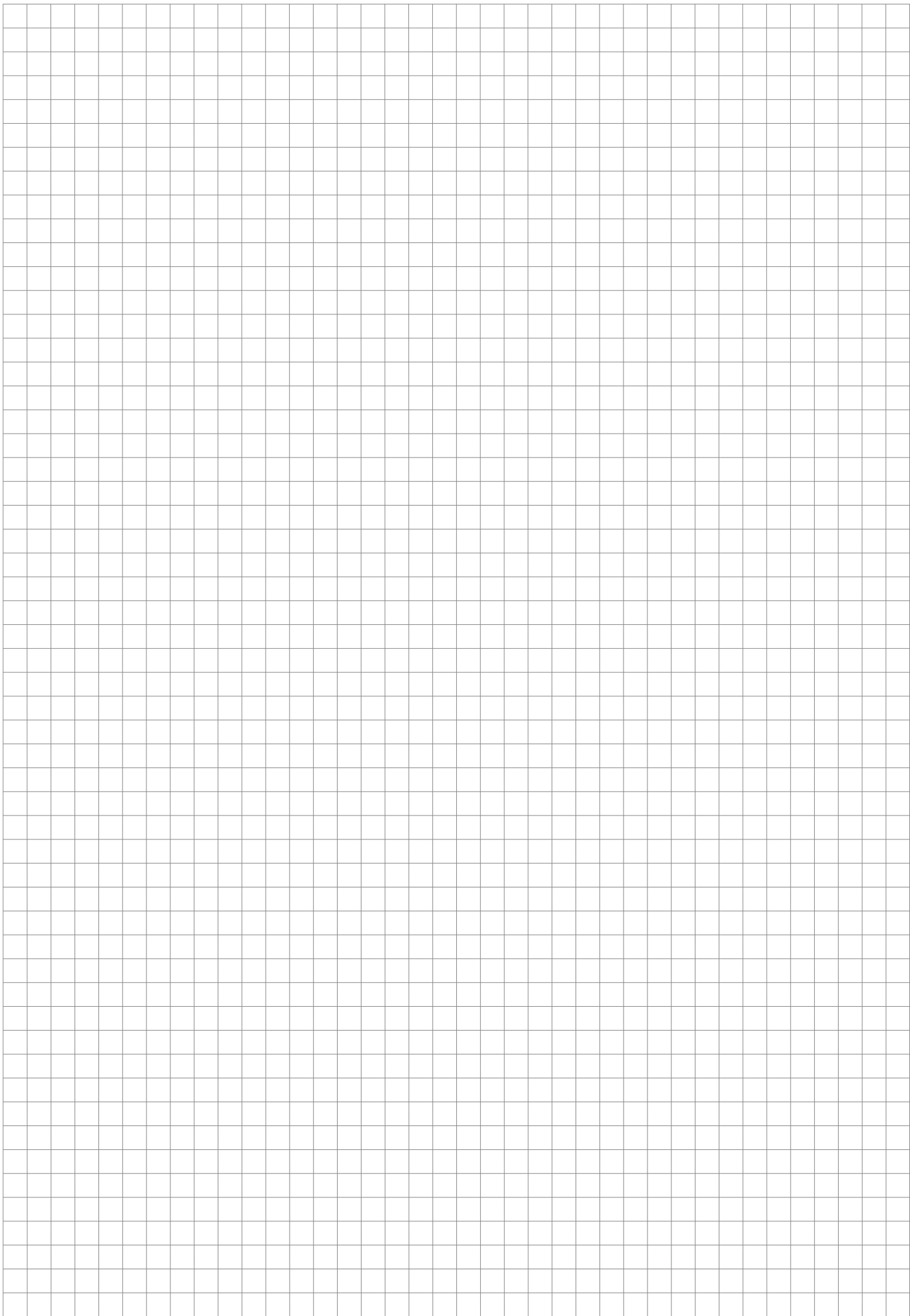
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AQ	Terminal cross section
B	Width
D Ø	Diameter
E	Assembly
G	Weight per piece
H	Height
H _{min}	Minimum installation height
IP _g	IP protection level in used condition
IP _n	IP-Schutzgrad im nicht genutzten Zustand
k	Clamping range
KQ	Cable cross section
L	Length
N	Levelling range
P _{max}	Maximum permissible load
t	Material thickness
T	Depth
Tk	Load capacity
TL	Separating layer
T _{max}	max. installation temperature
ABS	Acrylonitrile-butadiene-styrene copolymer
AL	Aluminium
CU	Copper
E	Stainless steel, material no. 1.4301 (ANSI 304) (V2A)
F	Hot-dip galvanized, according to EN ISO 1461
G	Rubber
GV	Fastenings galvanized, according to ISO 4042
H	Wood
KT	Carton
PA	Polyamide
PC	Polycarbonate
PE	Polyethylen
PET	Polyethylene terephthalate
PP	Polypropylene
PS	Polystyrene
PVC	Polyvinyl chloride
S	Continuously hot galvanized (Sendzimir process) (EN 10346) (10244-2 for wire)
STY	Styrofoam
Z	Zinc coated
	moist / wet maintained
	dry maintained



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