

UNDERFLOOR SYSTEMS



PUK-WERKE KG

Kunststoff-Stahlverarbeitung GmbH & Co.
PO Box 440260
12002 Berlin
Germany

Headquarters and Plant Berlin

Nobelstr. 45-55
12057 Berlin
Germany

Phone: +49 30 68283-01
Fax: +49 30 68283-266 Head of Sales
+49 30 68283-261 Sales
+49 30 68283-265 Project Management
+49 30 68283-267 Technical Consulting Service

info@puk.com
www.puk.com

Plant Schönecken

Industriestr. 1
54614 Schönecken
Germany

Phone: +49 6553 9202-0
Fax: +49 6553 9202-30

Detailed technical information about the products you can find on our website: www.puk.com
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search



COMPANY

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.

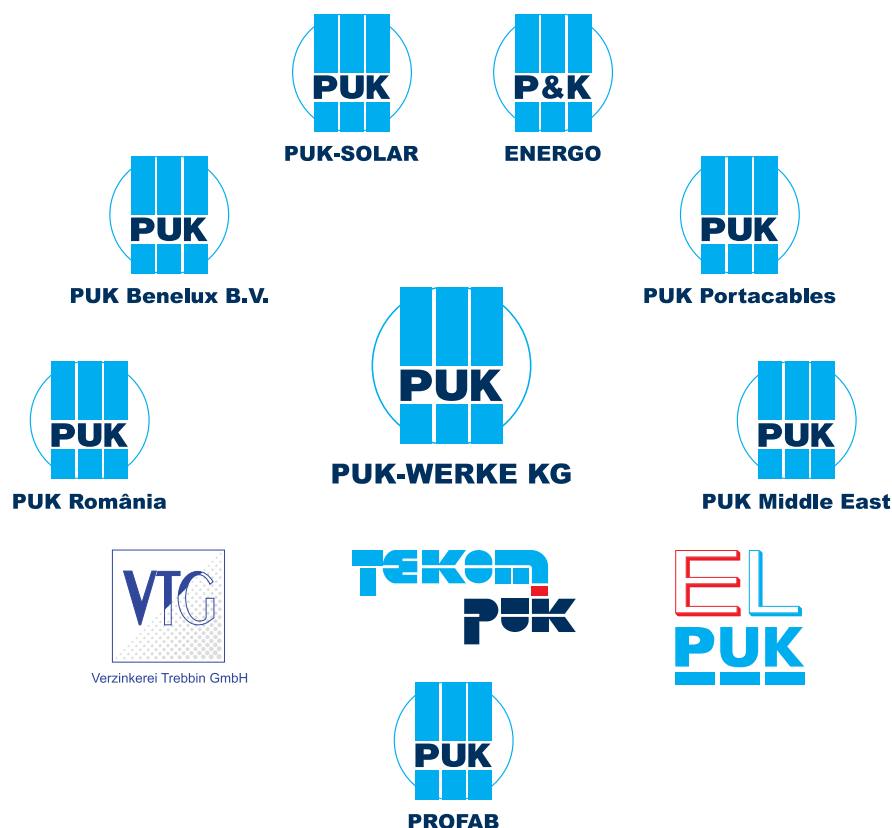
The Berlin-based businesses Herman Pohl OHG (general partnership, founded in 1951), and the Anton Klein OHG, (founded in 1935), whose shareholders decided in 1969 to bundle their business activities in the PUK-WERKE KG (limited partnership), form the roots of our company.

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.



CABLE MANAGEMENT SYSTEMS

THE COMPANY PUK

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

With nearly 400 employees, **PUK-Werke** (without subsidiaries) generates more than 100 million Euros Europe-wide; with all subsidiaries combined together, over 1.000 employees generate a turnover of more than 210 million Euros, thus representing a steadily growing medium-sized group of companies.

OUR PROFILE – OUR DISTINCTION

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.



Headquarters and Plant Berlin

INSTALLATION

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

The PUK-WERKE 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 & LOGISTICS

In Germany, we manufacture in two modern plants in Berlin and Schoenecken (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.



Plant Schönecken

REPRESENTATIONS

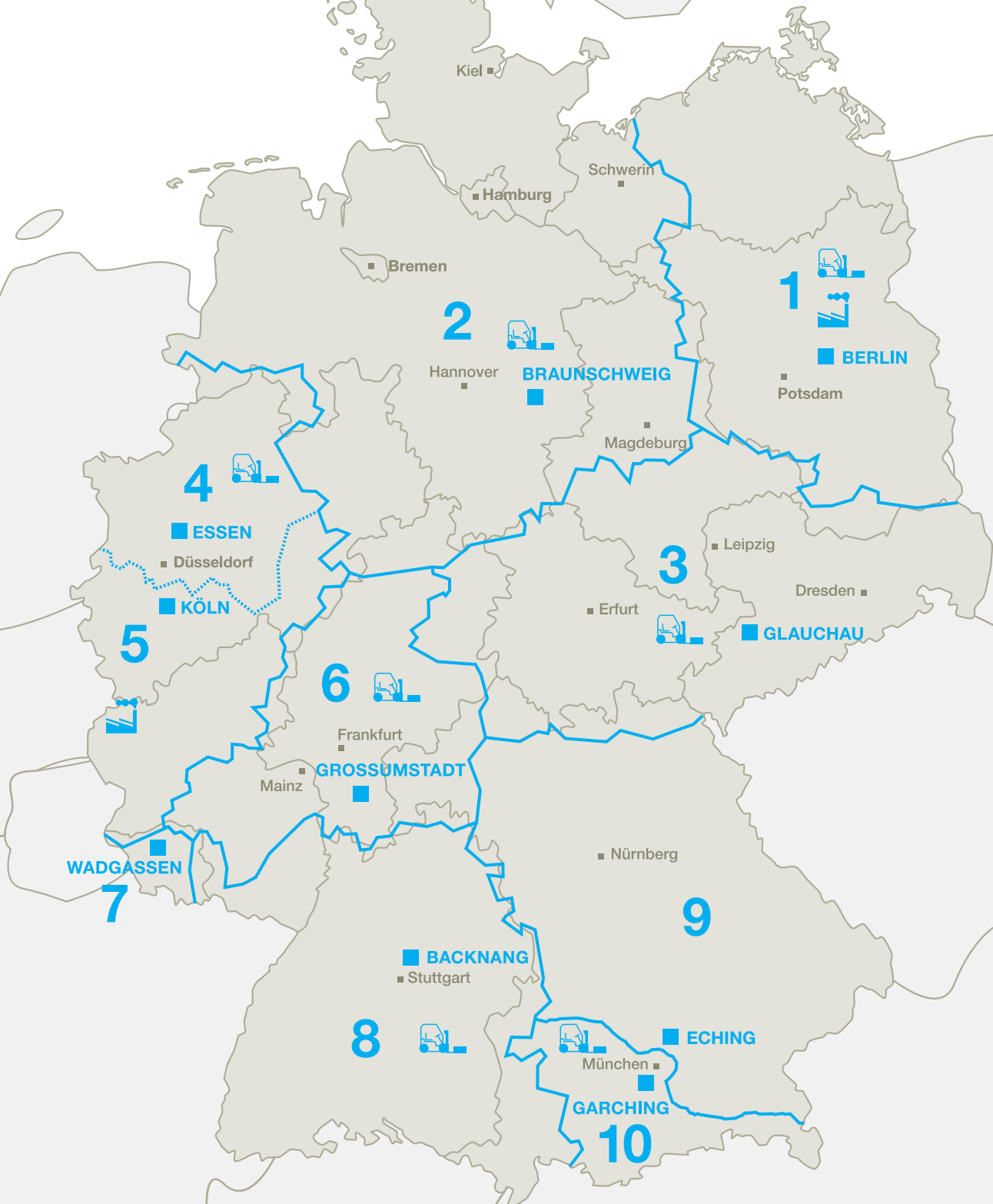
GERMANY



distribution warehouse



production



PUK-WERKE KG
Headquarters Berlin
Phone: +49 68283

HEAD OF SALES

Dieter Leifert -247

NATIONAL SALES

Robert Brendler -219

Head of Department

Detlef Apel -220

1 (North), 2 (East), 3

Anja Breuer -221

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INTERNATIONAL SALES

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Head of Department

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Ines Polenz -235

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Export

MAJOR PROJECTS

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Head of Department

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Product Management

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Frank Jeschke -225

Head of Department /

Product Management

Svenja Baer -291

North/West 2, 4, 5, 7

Benjamin Busse -185

South 6, 8, 9, 10

Nadine Fabini -129

East 1, 3

Markus Schitteck -226

Technical Consultant

Thomas Schug -298

International Sales

DEVELOPMENT AND CONSTRUCTION

Erik Vogler -140

Head of Department

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Head of Department

Valeska Tschernig -122

Samuel Matthia -237

Stefan Zeiske -217

TECHNICAL MARKETING / TECHNICAL DOCUMENTATION

Oliver Fiechtner -214

1 12057 BERLIN
PUK-WERKE KG
Branch Berlin-Brandenburg
Nobelstr. 45-55
Phone: +49 30 68283-01
Fax: +49 30 68283-266
berlin@puk.com
Henning Petke
Phone: +49 30 68283-218
Mobile: +49 172 9833865
henning.petke@puk.com

2 38112 BRAUNSCHWEIG
PUK-WERKE KG
Branch North Germany
Schmalbachstr. 16
Phone: +49 531 23778-10
Fax: +49 531 23778-15
braunschweig@puk.com
Frank-Helmut Tikwe
Phone: +49 531 23778-10
Mobile: +49 151 42635732
frank-helmut.tikwe@puk.com
Frank Braumann
Mobile: +49 151 62815155
frank.braumann@puk.com
Michael Schimanski
Mobile: +49 151 17434154
michael.schimanski@puk.com

REPRESENTATION:
WERNER WIRTH GMBH
Hellgrundweg 111
22525 Hamburg
info@wernerwirth.de
Wolfgang Höppner
Phone: +49 40 752491-0
Fax: +49 40 752491-91

3 08371 GLAUCHAU
PUK-WERKE KG
Branch Central Germany
Nikolaus-Otto-Str. 9
Phone: +49 3763 7791-0
Fax: +49 3763 7791-25
glauchau@puk.com
Holm Liebscher
Phone: +49 3763 7791-16
Mobile: +49 172 7676022
holm.liebscher@puk.com
Thomas Fleischer
Mobile: +49 170 2262104
thomas.fleischer@puk.com

4 45326 ESSEN
PUK-WERKE KG
Branch Rhein-Ruhr
Fundlandstr. 29
Phone: +49 201 74703-0
Fax: +49 201 331466
essen@puk.com
Marc Winkler
Phone: +49 201 74703-12
Mobile: +49 160 93969614
marc.winkler@puk.com
Andreas Fecker
Mobile: +49 175 1947028
andreas.fecker@puk.com

5 51149 KÖLN
PUK-WERKE KG
Branch Rhein-Ruhr
Kölner Str. 265
Phone: +49 2203 59946-0
Fax: +49 2203 59946-29
koeln@puk.com
Dieter Schmidt
Phone: +49 2203 59946-11
Mobile: +49 172 2686313
dieter.schmidt@puk.com

6 64823 GROSS-UMSTADT
PUK-WERKE KG
Branch Rhein-Main
Albert-Einstein-Str. 20
Phone: +49 6078 9687-0
Fax: +49 6078 9687-70
frankfurt@puk.com
Jože Turk
Phone: +49 6078 9687-20
Mobile: +49 151 17428527
joze.turk@puk.com

7 66787 WADGASSEN
REPRESENTATION:
K&P-MEBA GmbH
Zum Sitters 18
Phone: +49 6834 40165-0
Fax: +49 6834 40165-17
info@mebagmbh.com
Annja Klein-Schwarz
Phone: +49 6834 4016513
Fax: +49 6834 4016515

8 71522 BACKNANG
PUK-WERKE KG
Branch Southwest
Johann-Philipp-Reis-Str. 3
Phone: +49 7191 90207-0
Fax: +49 7191 90207-50
stuttgart@puk.com
Jochen Scherer
Phone: +49 7191 90207-10
Mobile: +49 172 9848650
jochen.scherer@puk.com
Bernd Reiss
Mobile: +49 160 96394149
bernd.reiss@puk.com
Daniel Di Stefano
Mobile: +49 160 96394148
daniel.distefano@puk.com
Marcel Flattich
Mobile: +49 172 2956469
marcel.flattich@puk.com

9 84174 ECHING / LANDSHUT
PUK-WERKE KG
Branch Bayern
Hofmark 10
Phone: +49 8709 92690-0
Fax: +49 8709 92690-20
bayern@puk.com
Oliver-Wolf Franke
Phone: +49 8709 92690-11
Mobile: +49 173 8823173
oliver-wolf.franke@puk.com

10 85748 GARCHING
PUK-WERKE KG
Branch Munich
Robert-Bosch-Str. 11
Phone: +49 89 327083-0
Fax: +49 89 327083-22
muenchen@puk.com
Bernhard Grefrath
Phone: +49 89 327083-0
Mobile: +49 171 2870850
bernhard.grefrath@puk.com

Business Development

Mirko Horz
Int. Key Account /
Business Development Management
Mobil: +49 172 5872199
mirko.horz@puk.com
Bhisham Vaswani
Business Development Manager India/
Asia-Pacific
Mobil: +49 172 7082856
bhisham.vaswani@puk.com

Technical consulting Underground Systems:

Stefan Auweiler
Mobile: +49 151 62824976
stefan.auweiler@puk.com
Pierre Plath
Mobile: +49 175 1812187
pierre.plath@puk.com



REPRESENTATIONS

GLOBAL

1 J. F. KNUDTZEN A/S

Billingstadsletta 97
Postboks 160
1378 Nesbru
Norway
Phone: +47 66 983350
Fax: +47 66 980955
firmapost@jfknudden.no
www.jfknudden.no

2 MP Bolagen Industri AB

Storgatan 25 Box 3
574 21 Vetlanda
Sweden
Phone: +46 383 763600
Fax: +46 383 12250
info@mpbolagen.se
www.mpbolagen.se

3 Elektrobig

Draugystes str. 19
51230 Kaunas
Lithuania
Phone: +370 685 48578
info@elektrobig.lt
www.elektrobig.lt

4 ПИК P&K ENERGO

RUS-127018, Moscow
ul. Streleckaja 6, Office 20
127018 Moscow
Russia
Phone: +7 495 6468348
info@pik-energo.ru
www.pik-energo.ru

5 J&P Building Systems Ltd.

Thame Forty
Jane Morbey Road
OX9 3RR Thame - Oxon
Great Britain
Phone: +44 1844 215200
Fax: +44 1844 263257
enquiries@jp-uk.com
www.jp-uk.com

6 Filoform UK

Unit K
Lambs Farm Business Park
Basingstoke Road
Swallowfield, Reading
Berkshire
RG7 1PQ
Great Britain
Phone: +44 118 9886873
Fax: +44 118 9886576
info@filoform.co.uk
filoform.co.uk

7 PUK-BENELUX B.V.

Meerheide 212
5521 DW Eersel
Netherlands
Phone: +31 497 534450
Fax: +31 497 514502
info@pukbenelux.com
www.pukbenelux.com

8 Stagobel Electro

Karrewegstraat 50
9800 Deinze
Belgium
Phone: +32 9 3818500
Fax: +32 9 3818501
info@stagobel.be
www.stagobel.be

9 EL-PUK Sp. z o. o.

ul. Koscielna 15
95-050 Konstantynów Łódzki
Poland
Phone: +48 42 2118801
Fax: +48 42 2118804
marketing@elpuk.com.pl
www.elpuk.com.pl

10 SCHMACHTL CZ SPOL. S.R.O.

Vestes 185
252 42 Jesenice
Czechia
Phone: +420 244 001500
Fax: +420 244 910700
office@schmachtl.cz
www.schmachtl.cz

11 INPUK OOO

Naukovastr. 7b
79060 Lviv (Lemberg)
Ukraine
Phone: +380 322 244771
Fax: +380 322 244772
office@inpuk.com.ua
www.inpuk.com.ua

12 SERMES S. A.

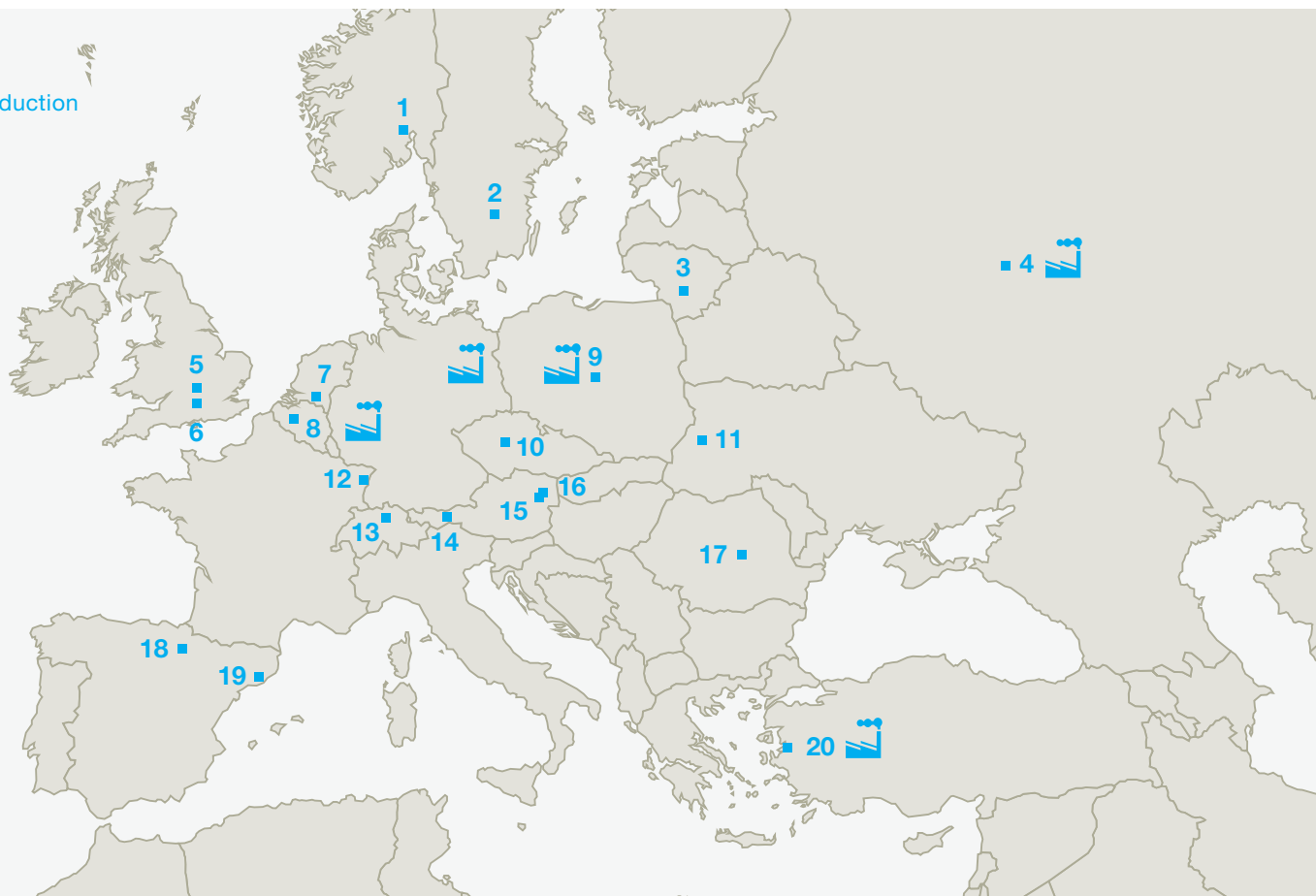
14 rue des Frères Eberts
67025 Strasbourg
France
Phone: +33 3 88407200
Fax: +33 3 88407259
info@sermes.fr
www.sermes.fr

13 JORDAHL H-BAU AG

Zürichstr. 38a
8306 Brüttisellen
Switzerland
Phone: +41 44 80717-17
Fax: +41 44 80717-18
info@jordahl-hbau.ch
www.jordahl-hbau.ch



production



**14 Rowa-Moser**

Bernhard-Höfel-Str. 9
6020 Innsbruck
Austria
Phone: +43 512 33770
Fax: +43 512 337707
office.ibk@rowa-moser.at
www.rowa-moser.at

15 Rowa-Moser

Triester Str. 79
2353 Guntramsdorf
Austria
office.gtfd@rowa-moser.at
www.rowa-moser.at

16 Dietzel GmbH

1. Haidequersr. 3-5
1111 Vienna
Austria
Phone: +43 1 76076-0
Fax: +43 1 76076-200
office@dietzel-univolt.com
www.dietzel-univolt.com

17 PUK-WERKE S.R.L.

Braşov str. 13 Decembrie; Nr. 94
500164 Braşov
Romania
Phone: +40 268 545888
Fax: +40 268 545725
romania@puk.com
www.puk.com

18 PUK-Portacables, S. L.

Bartolomé de Carranza, 36 bajos
31008 Pamplona (Navarra)
Spain
Phone: +34 948 177541
Fax: +34 948 272060
a.galarregui@pukportacables.com
www.puk.com

19 PUK-Portacables, S. L.

Pol. Ind. Barcelonés
C/Noguera, Nave 1
08630 Abrera (Barcelona)
Spain
Phone: +34 93 77034-90 / -91
Fax: +34 93 7703518
puk@pukportacables.com
www.puk.com

20 TEKOM-PUK

Elektromekanik Sanayi ve Ticaret A.S.
10006 sokak No:11 AOSB Cigli
35620 Izmir
Turkey
Phone: +90 232 3768160
Fax: +90 232 3768159
info@tekom-puk.com
www.tekom-puk.com

**21 S.I. Servicios Integrales Mexico
S.A.P.I. de C.V.**

Mártires de Río Blanco 19-E
Parque Industrial 5 de Mayo
72019 Puebla
Mexico
Phone: +52 1 2222880432
info-puk@sipuk.com.mx

22 PUK MIDDLE EAST

Concord Tower, 6th Floor,
Dubai Media City,
PO Box 126732, Dubai
United Arab Emirates
Phone: +971 4 4549790
Fax: +971 4 4542310
mena@puk.com
www.puk.com

23 Profab Engineers Pvt. Ltd.

W-310, T.T.C. Industrial Area,
Rabale, Navi Mumbai – 400 701
India
Phone: +91 22 27604355
Fax: +91 22 27607298
enquiry@profabengineers.com
www.profabengineers.com

24 Amtek Engineering (Pvt) Ltd

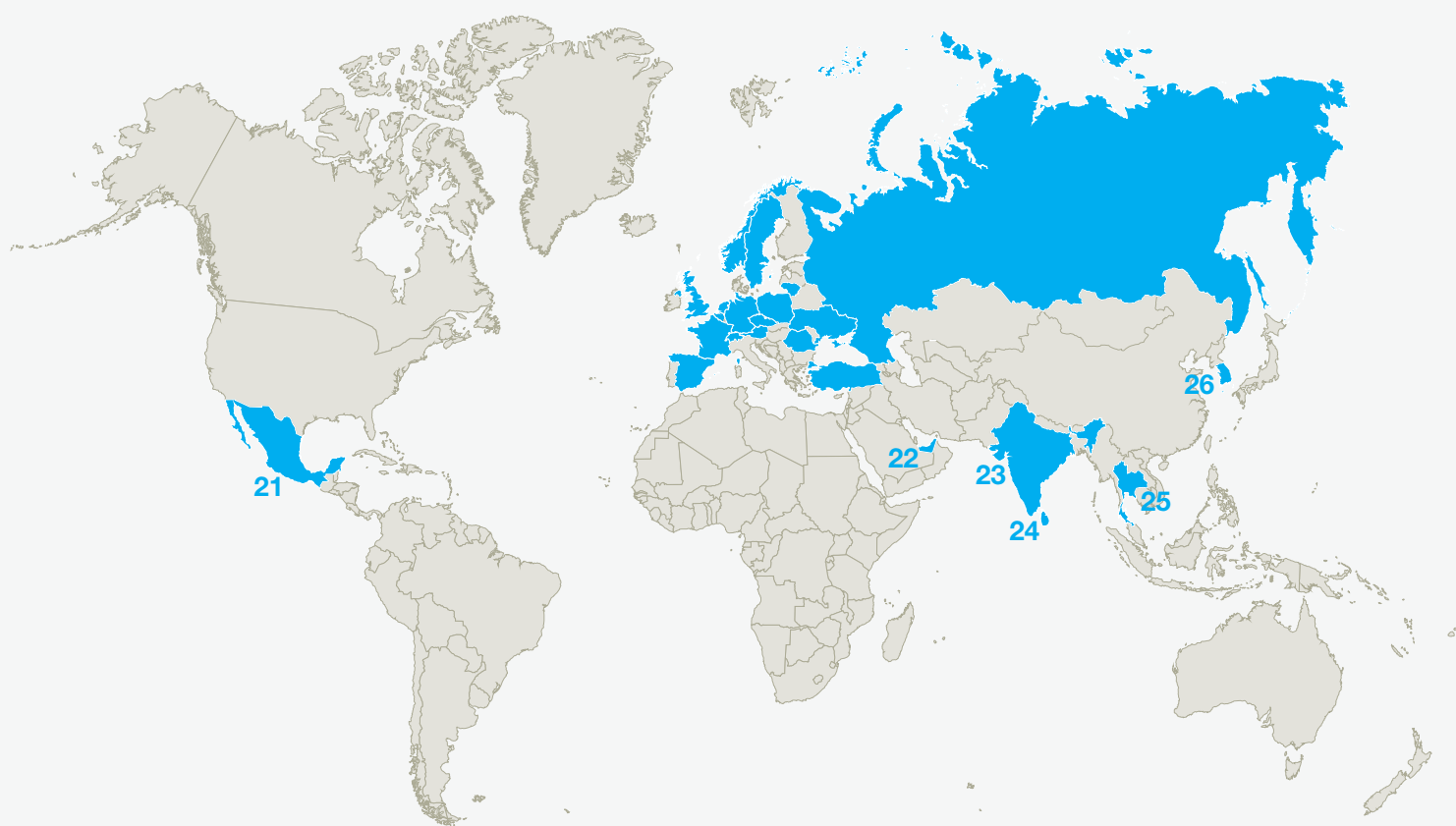
No: 28, Sulaiman Terrace
Colombo 05
Sri Lanka
Phone: +94112502918/38
Fax: +94112503392
samud@amtek.lk
www.amtek.lk

25 RTL Fasteners Co., Ltd.

1111/34-35 Lardproa 94
Wangthonglang
Bangkok 10310
Thailand
Phone: +662-530-8099
Fax: +662-530-8270
rtlfasteners@cscoms.com

26 T&C KOREA Co., Ltd.

Rm303, A Floor, JnK Digital Tower,
111, 26-gil, Digital-ro, Guro-gu,
Seoul, 152-848
Korea
Phone: +82-2-761-2757
Fax: +82-2-761-2759
www.tnckorea.co.kr



QUALITY & SAFETY

- » PUK-WERKE KG and its branches are certified according to DIN EN ISO 9001.



PUK Cable Management Systems:

- » Design,
- » Manufacturing,
- » Delivery and Installation

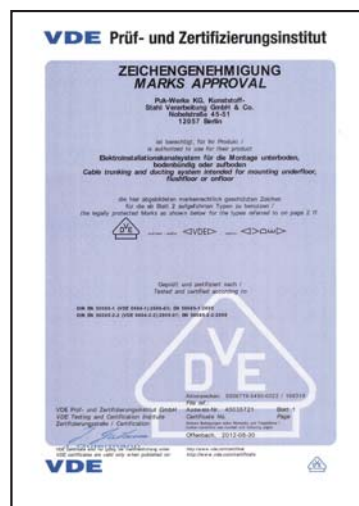
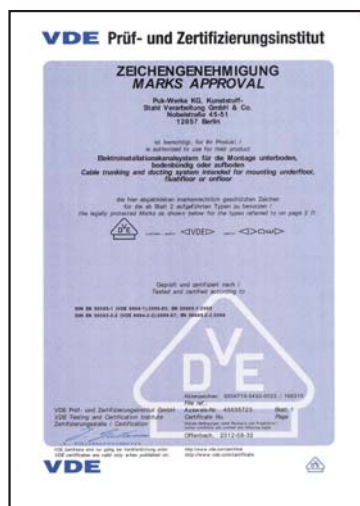
- » Secure mounting



SCC certification

- » Rules of occupational safety

- » Tested products



PUK Underfloor Systems



- BAUART
GEPRÜFT
- TYPE
APPROVED

PRODUCT GROUPS



Cable trays

A time-tested complete solution, consisting of:

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

Proven and tested reliable system solutions consisting of serial parts. Cost-efficient due to rational 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.



Solarline

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.



Industry

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

- wide-span cable systems
- supporting systems
- ship ladders
- profiles

It goes without saying that we offer our cable trays, underfloor systems, as well as mounting structures for photovoltaic systems including assembly!

GENERAL TRADING CONDITIONS

Allgemeine Geschäftsbedingungen | Conditions générales | Condiciones generales

SCOPE

The following delivery and payment conditions are a contractual component of all delivery and service contracts of the seller with companies, legal entities of public law, as well as separate estate under public law. These also extend to all subsequent transactions even if no explicit inclusion is agreed upon. Eventual existing terms and conditions on the part of the buyer are not an integral part of the contract except in individual cases where the seller has agreed explicitly and in writing. No informal arrangements have been made.

OFFERS AND DOCUMENTS

Offers and catalogue information from the seller related to price, quantity, period of delivery and availability are non-binding. Purchaser's orders shall be binding upon written or printed confirmation (including invoices or delivery notes) issued by the seller.

Drawings, sketches, patterns and other presentations subject to copyright, as well as quotations may not be made accessible to third parties; the seller reserves copy and proprietary rights. Illustrations, as well as weights and dimensions indicated are approximate. Such details of products are not warranted conditions, unless such warranties are explicit and in writing. Subject to alterations.

PRICES

The order confirmation is definitive for the price. In the absence of a special agreement, the list prices valid at the time the contract is concluded will be charged. Prices do not include value-added tax and are ex works or warehouse (at seller's option).

Should the agreed delivery period be more than four months then the seller is entitled to appropriately raise agreed prices in the event of changes in material prices for metals and alloys by their suppliers between the signing of the contract and delivery. Claims arising from the so-called disturbance of the contractual basis remain unaffected.

Standard packaging by the seller for national truck forwarding services is included in the prices. Any additional packaging, e.g. for the carriage of goods by sea, will be invoiced at cost price. It is, however, non-returnable.

DELIVERY

Place of fulfilment is the factory or the warehouse of the seller. The risk passes to the buyer in the case of collection by the buyer at the time of notification of the availability of the goods, in the case of shipment at the hand over to a forwarding agent or freight carrier, at the latest however, upon leaving the factory or warehouse. Should the shipping be delayed for reasons for which the seller cannot be held responsible, then the risk transfers to the buyer as soon as he has been notified of the readiness for shipment.

There are no fixed delivery deadlines. Only when the seller guarantees deadlines in writing is this not the case. In case of doubt, the delivery times commence with the date of order confirmation. They are valid subject to proper and timely self delivery. The date of delivery is the date on which the goods leave the factory or warehouse of the seller. Should a delivery be made impossible or unreasonable by a circumstance in the risk area of the buyer, then the delivery period is to be extended by the length of the interruption, plus a reasonable start-up time. The same applies so far as the seller has a legal right of retention.

FORCE MAJEURE

Every form of force majeure, unforeseeable operational, traffic or shipping disturbances, war, acts of terror, fire damage, unforeseeable lack of staff, energy, raw or auxiliary materials, strikes, lockouts as well as hindrances caused by official directives, or other impediments, for which the seller is not responsible, that prevent or render production or delivery unreasonable, free the seller from the obligation to deliver for the duration and extent of the disturbance. Should the delivery be delayed in the wake of the disturbance, then the delivery time is to be extended by the length of the interruption, plus a reasonable start-up time.

RETURN SHIPMENTS

The buyer has no right of return for unneeded goods to the seller. Current catalogue material which is in a sellable condition and without defects can be returned within 3 months of delivery, if previously agreed, and delivered free of charge to the factory or branch. Compensation takes place after the deduction of administrative and distribution costs. Any costs necessary for improvements or repackaging will be invoiced as per expense. Cable clamps and other small parts will only be taken back in unopened packaging units. Custom materials may not be returned.

PAYMENT

In the absence of special agreements the payments are due as follows:

- one third at conclusion of the contract
- one third at readiness for shipment
- one third on delivery

Discounts shall only be granted if no accounts are outstanding and legitimate claims are settled in full and on time. If not agreed otherwise, discount periods are based on a payment as of the date of invoice.

The punctuality of a payment is determined by the receipt of payment by the seller. In the case of payment default of one payment on the part of the buyer, all other claims of the seller become due immediately, including deferred claims. In the event of default, the seller is entitled to charge the statutory interest payable for default.

When payment deadlines are not adhered to and there are circumstances which justifiably call into question the credit worthiness of the buyer, the seller is entitled to demand immediate cash payments for all deliveries.

Setting off with counterclaims is only permissible in the case of undisputed and legally established counterclaims.

Payment by bill of exchange requires the consent of the seller.

COMPLAINTS

The buyer must immediately determine the contractual conformity of the goods, particularly regarding discrepancies in sorts, quantities and weight, as well as noticeable defects. Noticeable defects must be reported in writing to the seller within one week after receipt of the product or – if the defect only comes to light later – within one week after detection, with immediate suspension of any work on the defective parts. Should this not occur then the goods shall be regarded as approved.

If goods are defective, the seller fulfils the implied warranty by primarily improving or replacing them free of charge, as per the seller's choice (supplementary performance). If one attempt to improve the goods fails the buyer may only claim after two equally

GENERAL TRADING CONDITIONS

Allgemeine Geschäftsbedingungen | Conditions générales | Condiciones generales



failed attempts or if a reasonable period of time has passed since reporting the defect without any attempt to provide rectification. In case of doubt, a reasonable period of time is equivalent to the contractual delivery period.

The statutory period of limitation for all warranty claims amounts to one year from the legal commencement of the period of limitations with the exception of these claims found in sec. 478 German Civil Code. This does not apply for goods that were used for construction work in accordance with their usual application.

LIABILITY

Claims for damages made by the buyer – including extra-contractual damage compensation claims – are excluded in cases of slightly negligent violation of non-essential duties for the fulfilment of the contract. In cases of slightly negligent violation of essential obligations, as well as a deliberate or serious negligent breach of contractual obligations by non-managerial employees, the level of liability of the seller is limited to the normal amount of damage that might be expected. All liability limitations contained in these delivery conditions are not valid in the event of damage to persons, damage that is caused by the absence of a guaranteed quality and claims pursuant to the Product Liability Act.

RETENTION OF PROPERTY RIGHTS

The seller retains the property right to the product until the sales price has been paid in full and all claims from the business relationship against the buyer have been fulfilled. This also applies if individual or all claims are placed in a running invoice and the balance has been struck and accepted.

The buyer is only authorised and entitled to process or resell reserved goods over the course of a proper business transaction and under the condition that the subsequent stipulations are observed. The buyer is not authorised to dispose of reserved goods or claims which he had ceded or will cede to the seller according to these regulations in any other way. If the delivered goods are processed to a new product by the buyer, the processing is done for the seller. An acquisition of property by the buyer according to sections 946-950 German Civil Code is excluded. In the case of processing with other products, not property of the seller, the seller acquires joint ownership of the new products as per the value ratio. The new product is a reserved good. The buyer already cedes his claims to a reselling of the reserved goods to the seller to an amount that corresponds to the value of the reserved goods.

The seller accepts this cession. The value of the reserved goods according to these conditions is the invoice value of the seller plus a safety fee of 10%.

The seller authorises the buyer, under reserve of revocation, to collect claims from reselling. The seller will not make use of his own collection authorisation, as long as the buyer fulfils his payment obligations. Upon request, the buyer must name the debtors of the ceded claims to the seller and display this cession. Thus, the seller will be authorised to show the debtor the cession in the name of the buyer.

Should the value of the surety provided to the seller exceed the claims by more than 10%, at the buyer's request, the seller is obligated to retransfer or release the securities; the selection of securities to be released shall be made by the seller.

In case of foreclosure or other measures of third parties which could legally or actually affect the rights of the seller to the reserved goods or ceded claims, the buyer must immediately inform the seller and provide the documents necessary for an intervention. In case of an impoundment or other seizures, the buyer is obligated to notify the foreclosure officials of the property of the seller and to report this to the seller within three days by sending a copy of the impoundment report. The buyer bears the costs of protecting the proprietary rights of the seller.

PLACE OF JURISDICTION ; CHOICE OF LAW

The place of jurisdiction dealing with traders is 12057 Berlin. The seller is entitled, however, to sue where the buyer has his office or delivery address. German law under exclusion of the UN Sales Convention is exclusively valid.

MISCELLANEOUS

Should individual regulations of these general business terms and conditions of payment be or become fully or partially ineffective, the effectiveness of the remaining conditions will not be affected. The parties are to replace an ineffective provision by one that is effective and most closely approximates the commercial purpose of the original.

[2010-01]

UNDERFLOOR SYSTEMS



INFORMATION

SCREED FLUSH DUCT SYSTEMS

A

FLOOR TRUNKING SYSTEMS

B

INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

C

DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

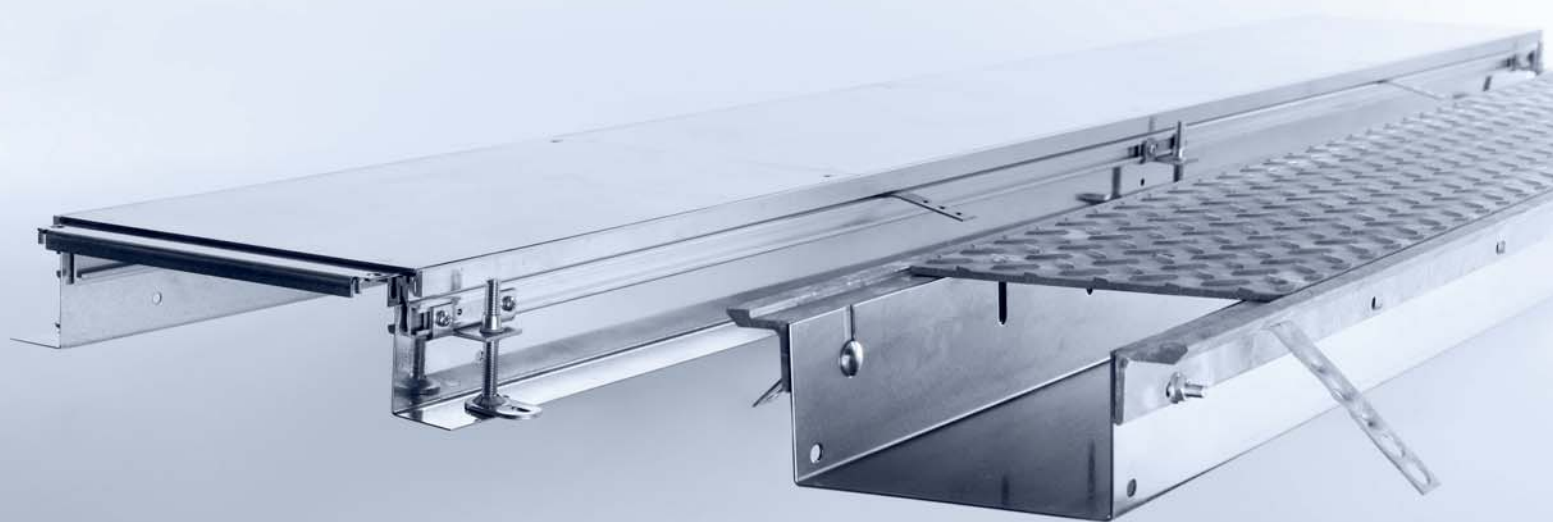
D

PLANNING

E

ASSEMBLY

F



SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT

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HEAVY-DUTY FLOOR DUCT

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B

BSS Flat head tapping screw [A14](#)

L

LKS Lens head screw [A13](#)

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UBDSLFL levelling support [A12](#)

UBK bottom piece [A16](#)

UBKAB outward profile bend [A18](#)

UBKD dummy cover [A16](#)

UBKDB spacer [A19](#)

UBKEB end piece [A18](#)

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UBKTR barrier strip [A19](#)

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UEBS screed flush duct, 1 compartment [A04](#)

UEBSBD dummy cartridge, quadrangular [A11](#)

UEBSBMD 185V Assembly cover, blank, quadrangular [A05](#)

UEBSBMD 260R Assembly cover, blank, round [A05](#)

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UEBSBMD 307R Assembly cover, blank, round [A05](#)

UEBSD dummy cover [A13](#)

UEBSE earthing connector [A12](#)

UEBSEA screed anchor [A13](#)

UEBSEL Earthing lug set [A12](#)

UEBSES end piece [A10](#)

UEBSESK End piece, cartridge [A10](#)

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UEBSMD 185V Assembly cover, quadrangular [A05](#)

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UEBSMSP Plastic side panels [A07](#)

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UEBSPT AL carpet flange with hem 0/3 mm [A13](#)

UEBSPT E Cartridge edge [A11](#)

UEBSQT transverse cross bar [A13](#)

UEBSST levelling support [A07](#)

UEBSTR barrier strip [A13](#)

UEBSV Corner connector [A12](#)

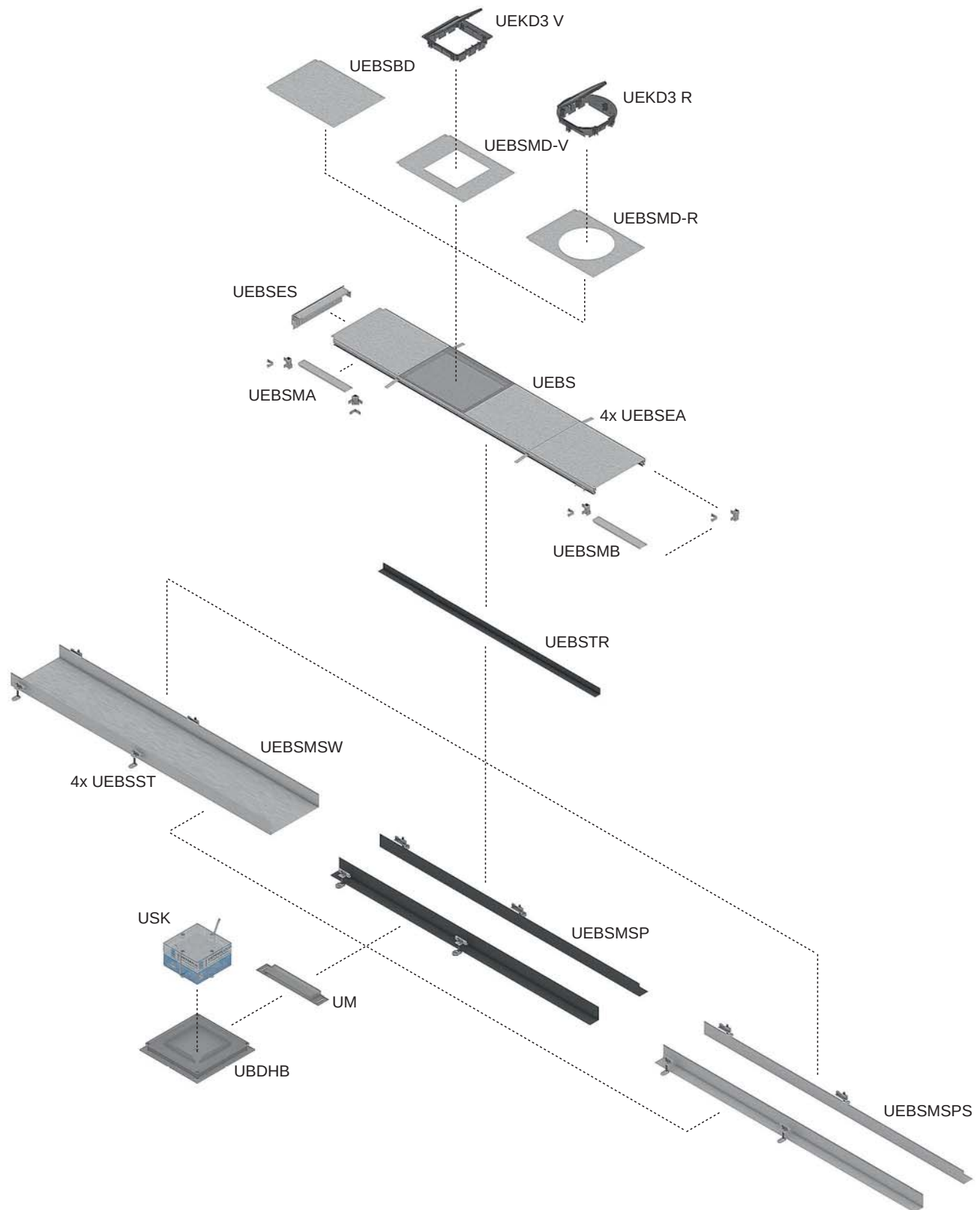
UEBSV S coupler [A12](#)

UEBSVE S Corner connector [A12](#)

UGM SLF Subsonic noise sleeve socket - levelling support [A12](#)

SYSTEM OVERVIEW

SCREED FLUSH DUCT



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 UEBS-MSW and 4x levelling units UEBSST.

For assembly instructions, see the chapter assembly.

	Hmin mm	B mm	L mm	Pmax kN	G kg
S					
UEBS 20S	60	200	2000	1,5	15,14

included:

2 x UEBSPT-3 AL	carpet flange with hem 0/3 mm	(page A13)
1 x UEBSE	earthing connector	(page A12)
4 x UEBSEA	screed anchor	(page A13)
4 x UEBSD 20S	dummy cover	(page A13)

	Hmin mm	B mm	L mm	Pmax kN	G kg
S					
UEBS 30S	60	300	2000	1,5	20,30

included:

2 x UEBSPT-3 AL	carpet flange with hem 0/3 mm	(page A13)
1 x UEBSE	earthing connector	(page A12)
4 x UEBSEA	screed anchor	(page A13)
4 x UEBSD 30S	dummy cover	(page A13)

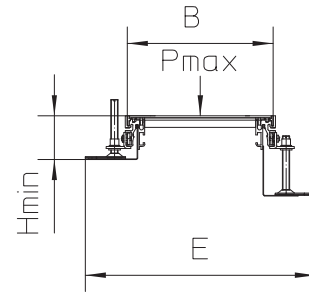
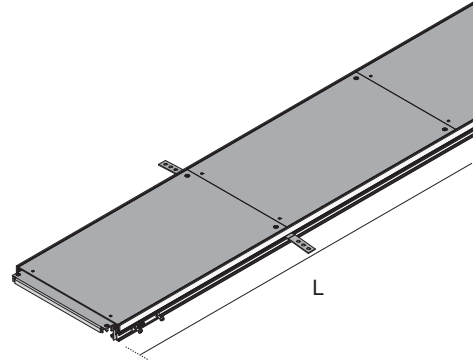
	Hmin mm	B mm	L mm	Pmax kN	G kg
S					
UEBS 40S	60	400	2000	1,5	25,46

included:

2 x UEBSPT-3 AL	carpet flange with hem 0/3 mm	(page A13)
1 x UEBSE	earthing connector	(page A12)
4 x UEBSEA	screed anchor	(page A13)
4 x UEBSD 40S	dummy cover	(page A13)

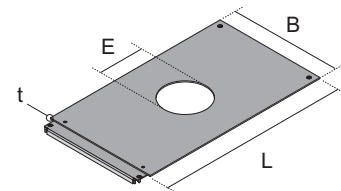
optional:

UEBSMSP	Plastic side panels	(page A07)
UEBSMSP S	Steel sheet side panels	(page A07)
UEBSQT	transverse cross bar	(page A13)
UEBSMSW	Floor tub	(page A07)
UEBSST	levelling support	(page A07)



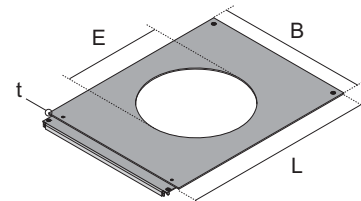
UEBSMD 122R Assembly cover, round

	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



UEBSMD 260R Assembly cover, round

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

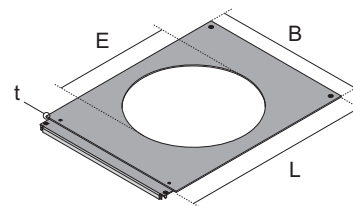


SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT

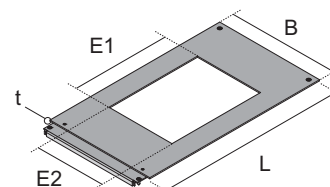
UEBSMD 307R Assembly cover, round

	B mm	L mm	E mm	t mm	G kg
S					
UEBSMD-307R 40S	400	500	307	3	3,32



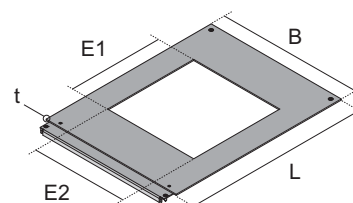
UEBSMD 185V Assembly cover, quadrangular

	B mm	L mm	E1 mm	E2 mm	t mm	G kg
S						
UEBSMD-185V 30S	300	500	260	185	3	2,63
UEBSMD-185V 40S	400	500	260	185	3	3,92



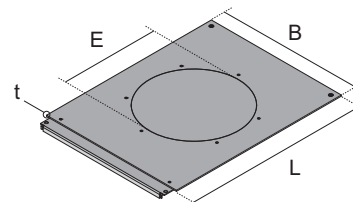
UEBSMD 260V Assembly cover, quadrangular

	B mm	L mm	E1 mm	E2 mm	t mm	G kg
S						
UEBSMD-260V 40S	400	500	261	261	3	3,45



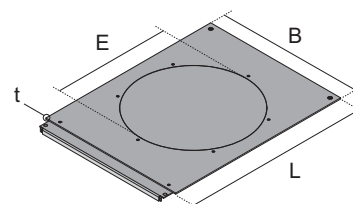
UEBSBMD 260R Assembly cover, blank, round

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



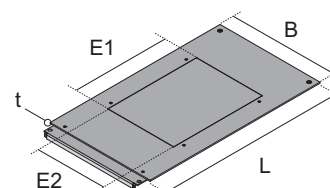
UEBSBMD 307R Assembly cover, blank, round

	B mm	L mm	E mm	t mm	G kg
S					
UEBSBMD-307R 40S	400	500	307	3	5,23



UEBSBMD 185V Assembly cover, blank, quadrangular

	B mm	L mm	E1 mm	E2 mm	t mm	G kg
S						
UEBSBMD-185V 30S	300	500	260	185	3	4,04
UEBSBMD-185V 40S	400	500	260	185	3	5,33

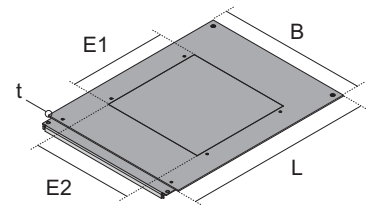


SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT

UEBSBMD 260V Assembly cover, blank, quadrangular

s	B	L	E1	E2	t	G
	mm	mm	mm	mm	mm	kg
UEBSBMD-260V 40S	400	500	261	261	3	5,33

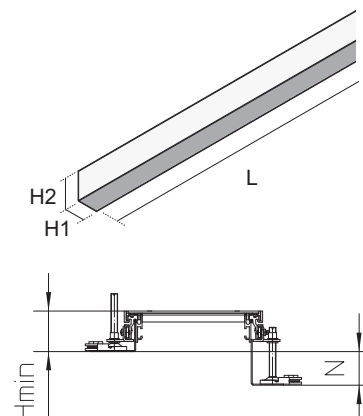


SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT SIDE PANELS

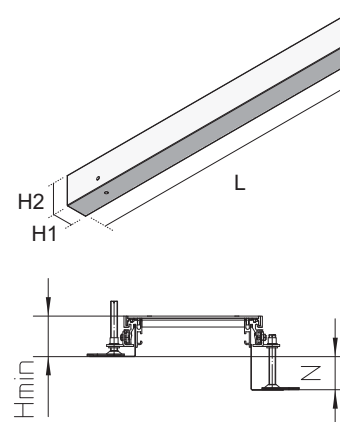
UEBSMSP Plastic side panels

PA	H1 mm	H2 mm	Hmin mm	N mm	L mm	G kg
UEBSMSP 60	48	68	60	+ 50	2000	1,00
UEBSMSP 100	88	108	100	+ 50	2000	1,02



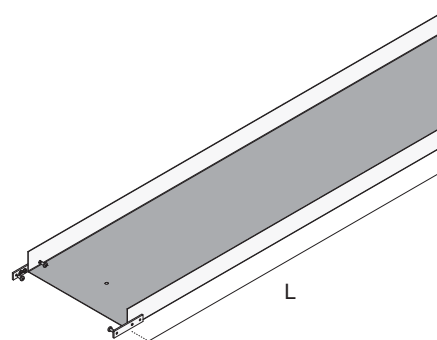
UEBSMSP S Steel sheet side panels

S	H1 mm	H2 mm	Hmin mm	N mm	L mm	G kg
UEBSMSP 60S	48	68	60	+ 50	2000	1,35
UEBSMSP 100S	88	108	100	+ 50	2000	1,29



UEBSMSW Floor tub

S	Hmin mm	N mm	B mm	L mm	G kg
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 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 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 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

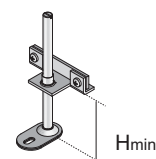


UEBSST levelling support

S	Hmin mm	N mm	G kg
UEBSST 80S	60	+ 50	0,18

included:

- 2 x **LKS M5x10** Lens head screw (page A13)
- 1 x **UBDSL 80** levelling support (page A12, C33)
- 1 x **UEBSV S** coupler (page A12)



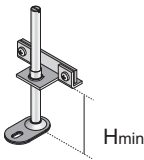
SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT SIDE PANELS

UEBSST levelling support

	Hmin mm	N mm	G kg
S			
UEBSST 150S	100	+ 50	0,20

included:
2 x **LKS M5x10** Lens head screw (page A13)
1 x **UBDSL 150** levelling support (page A12, C33)
1 x **UEBSV S** coupler (page A12)



SCREED FLUSH DUCT SYSTEMS

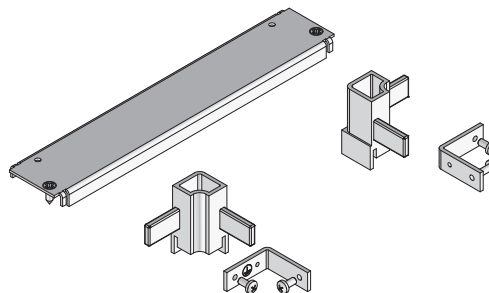
SCREED FLUSH DUCT MOUNTING KIT

UEBSMA mounting Kit T-branch

S	G kg
UEBSMA 20S	0,34

included:

- 1 x **UEBSQT 20S** transverse cross bar (page A13)
- 2 x **UEBSVE S** Corner connector (page A12)
- 2 x **UEBSV** Corner connector (page A12)



S	G kg
UEBSMA 30S	0,45

included:

- 1 x **UEBSQT 30S** transverse cross bar (page A13)
- 2 x **UEBSVE S** Corner connector (page A12)
- 2 x **UEBSV** Corner connector (page A12)

S	G kg
UEBSMA 40S	0,56

included:

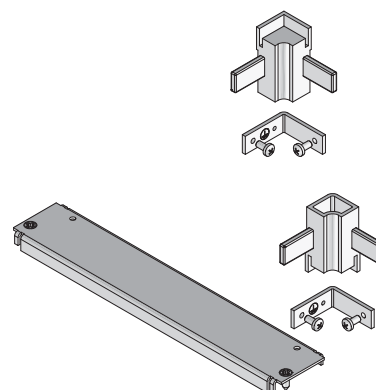
- 1 x **UEBSQT 40S** transverse cross bar (page A13)
- 2 x **UEBSVE S** Corner connector (page A12)
- 2 x **UEBSV** Corner connector (page A12)

UEBSMB mounting Kit 90° bend

S	G kg
UEBSMB 20S	0,34

included:

- 1 x **UEBSQT 20S** transverse cross bar (page A13)
- 2 x **UEBSVE S** Corner connector (page A12)
- 2 x **UEBSV** Corner connector (page A12)



S	G kg
UEBSMB 30S	0,45

included:

- 1 x **UEBSQT 30S** transverse cross bar (page A13)
- 2 x **UEBSVE S** Corner connector (page A12)
- 2 x **UEBSV** Corner connector (page A12)

S	G kg
UEBSMB 40S	0,56

included:

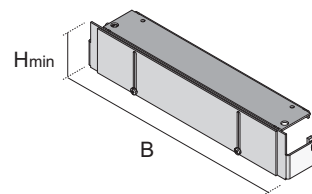
- 1 x **UEBSQT 40S** transverse cross bar (page A13)
- 2 x **UEBSVE S** Corner connector (page A12)
- 2 x **UEBSV** Corner connector (page A12)

SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT MOUNTING KIT

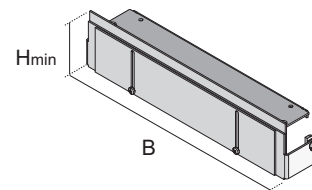
UEBSES end piece

S	Hmin mm	N mm	B mm	G kg
UEBSES 60-20S	60	+ 50	200	0,62
UEBSES 60-30S	60	+ 50	300	0,92
UEBSES 60-40S	60	+ 50	400	1,22
UEBSES 100-20S	100	+ 50	200	0,73
UEBSES 100-30S	100	+ 50	300	1,09
UEBSES 100-40S	100	+ 50	400	1,45



UEBSESK End piece, cartridge

S	Hmin mm	N mm	B mm	G kg
UEBSESK 60-20S	60	+ 50	200	0,79
UEBSESK 60-30S	60	+ 50	300	1,17
UEBSESK 60-40S	60	+ 50	400	1,54
UEBSESK 100-20S	100	+ 50	200	0,90
UEBSESK 100-30S	100	+ 50	300	1,34
UEBSESK 100-40S	100	+ 50	400	1,78

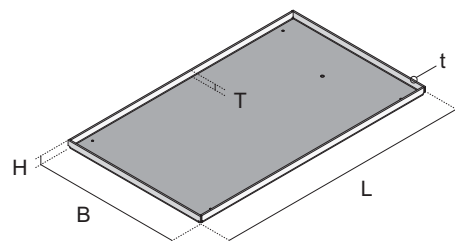


SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT STAINLESS STEEL CARTRIDGE

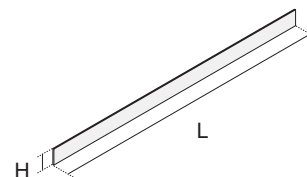
UEBSBD dummy cartridge, quadrangular

E	H mm	B mm	L mm	t mm	t mm	G kg
UEBSBD 15-20E	15	200	500	3	12	2,68
UEBSBD 15-30E	15	300	500	3	12	3,92
UEBSBD 15-40E	15	400	500	3	12	5,16
UEBSBD 25-20E	25	200	500	3	22	3,00
UEBSBD 25-30E	25	300	500	3	22	4,29
UEBSBD 25-40E	25	400	500	3	22	5,58



UEBSPT E Cartridge edge

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



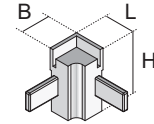
SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT ACCESSORIES

UEBSV Corner connector

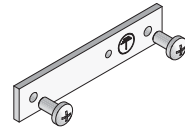
Corner connector made of plastic material for inside and outside

	H mm	B mm	L mm	G kg
PA				
UEBSV	57	28	28	0,03



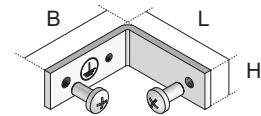
UEBSV S coupler

	G kg
S	
UEBSV S	0,04



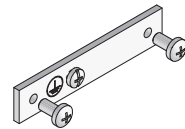
UEBSVE S Corner connector

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



UEBSE earthing connector

	G kg
S	
UEBSE	0,04

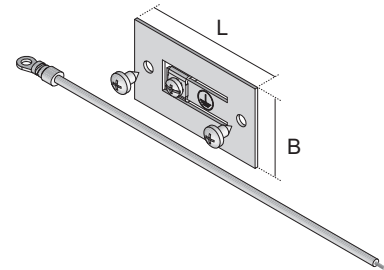


UEBSEL Earthing lug set

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

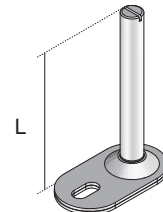
included:

- 2 x **BLS 4.8x9.5** tapping screw (page D45)
- 1 x **LKS M4x12** Lens head screw (page A13)
- 1 x **UVA-GB-2.5-30** grounding line (page C31)



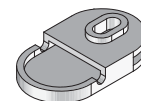
UBDSLFL levelling support

	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

	G kg
PVC	
UGM-SLF	0,01

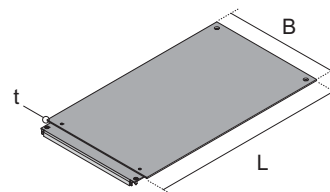


SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT ACCESSORIES

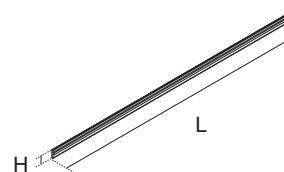
UEBSD dummy cover

	B mm	L mm	t mm	G kg
S				
UEBSD 20S	200	500	3	2,48
UEBSD 30S	300	500	3	3,76
UEBSD 40S	400	500	3	5,05



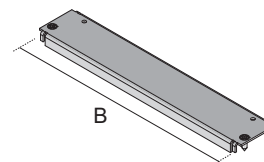
UEBSPT AL carpet flange with hem 0/3 mm

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



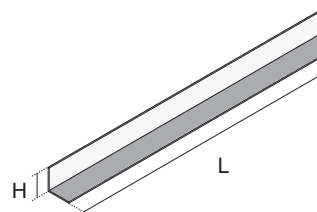
UEBSQT transverse cross bar

	B mm	G kg
S		
UEBSQT 20S	200	0,19
UEBSQT 30S	300	0,31
UEBSQT 40S	400	0,42



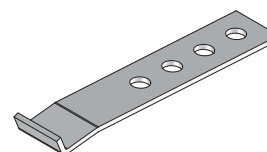
UEBSTR barrier strip

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



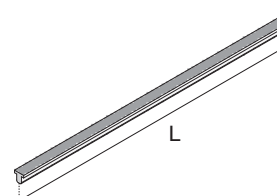
UEBSEA screed anchor

	G kg
S	
UEBSEA	0,02



UEBSPGD Rubber sealing

	L mm	G kg
G		
UEBSPGD	2000	0,21



LKS Lens head screw

	L mm	G kg/100
GV		
LKS M4x10	10	0,01
LKS M4x12	12	0,01
LKS M5x10	10	0,01



SCREED FLUSH DUCT SYSTEMS

SCREED FLUSH DUCT ACCESSORIES

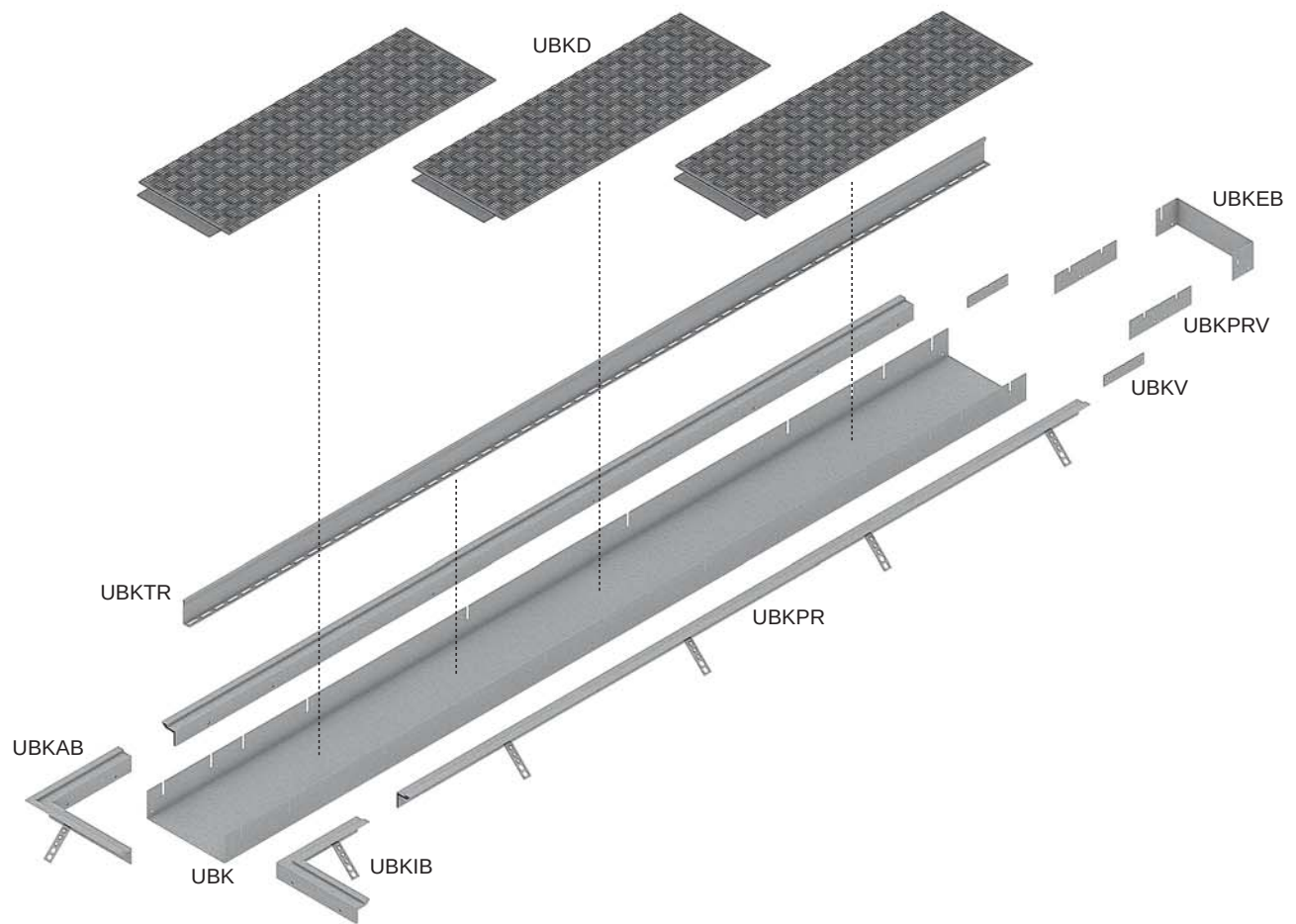
BSS Flat head tapping screw

		G
		kg
GV		
BSS 4.8x22		<0.01



SYSTEM OVERVIEW

HEAVY-DUTY FLOOR DUCT



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.

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

optional:

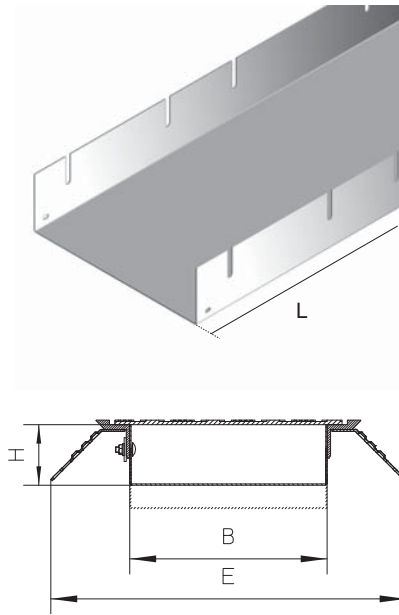
UBKV coupler (page A19)

UBKDB spacer (page A19)

SNA nail plug (page B16)

UBKD dummy cover (page A16)

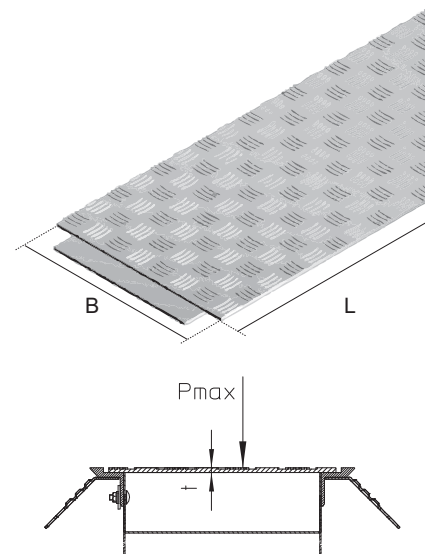
UBKPR side profile (page A17)



UBKD dummy cover

For an application example, see the chapter assembly.

F	B mm	L mm	t mm	Pmax kN	G kg
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

Reduces the insertion depth of the cover.

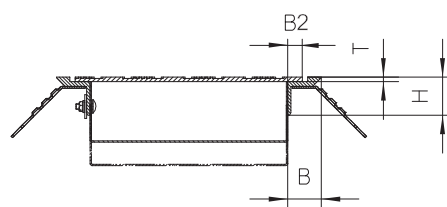
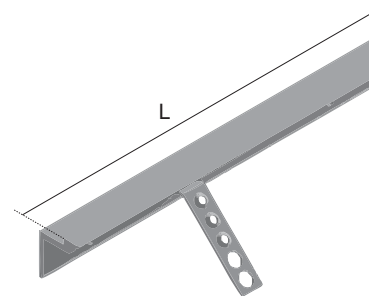
F	H mm	B mm	B2 mm	L mm	t mm	G kg
UBKPR5F	45	40	24	3000	5	10,80
UBKPR8F	57	50	30	3000	7	14,60
UBKPR10F	60	50	30	3000	10	18,30

included:

5 x **FRS 8x25** cup square neck bolt, DIN 603 (catalog Cable trays)
 5 x **SEMS 8** hexagon nut, self-locking (catalog Cable trays)
 1 x **UBKPRV** coupler (page A19)

optional:

UGD 20 rubber strips (page C32)

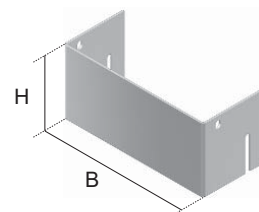


SCREED FLUSH DUCT SYSTEMS

HEAVY-DUTY FLOOR DUCT ■ FITTINGS

UBKEB end piece

S	H mm	B mm	G kg
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

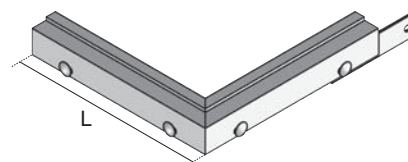


optional:

KLS clamping screw (catalog Cable trays)

UBKIB inward profile bend

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



included:

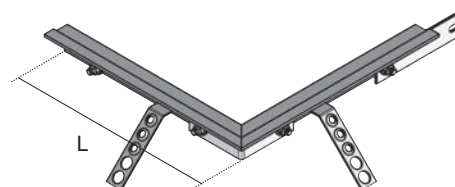
1 x **UBKPRV** coupler (page A19)
 4 x **FRS 8x25** cup square neck bolt, DIN 603 (catalog Cable trays)
 4 x **SEMS 8** hexagon nut, self-locking (catalog Cable trays)

optional:

UBKV coupler (page A19)

UBKAB outward profile bend

F	L mm	G kg
UBKAB5F	300	2,50
UBKAB8F	300	3,10
UBKAB10F	300	3,70



included:

1 x **UBKPRV** coupler (page A19)
 1 x **UBKPRVE** coupler (page A19)
 4 x **SEMS 8** hexagon nut, self-locking (catalog Cable trays)
 4 x **FRS 8x25** cup square neck bolt, DIN 603 (catalog Cable trays)

optional:

UBKV coupler (page A19)

SCREED FLUSH DUCT SYSTEMS

HEAVY-DUTY FLOOR DUCT ■ ACCESSORIES

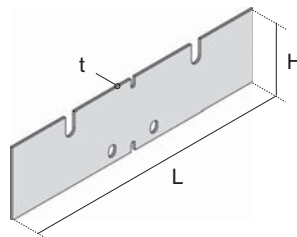
UBKV coupler

	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

included:

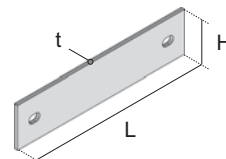
2 x **FRS 8x25** cup square neck bolt, DIN 603 (catalog Cable trays)

2 x **SEMS 8** hexagon nut, self-locking (catalog Cable trays)



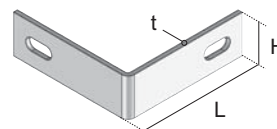
UBKPRV coupler

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



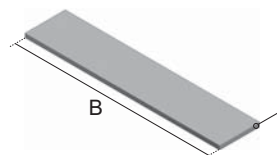
UBKPRVE coupler

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



UBKDB spacer

	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

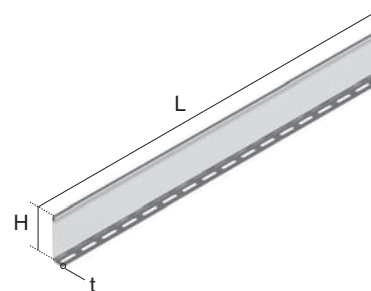


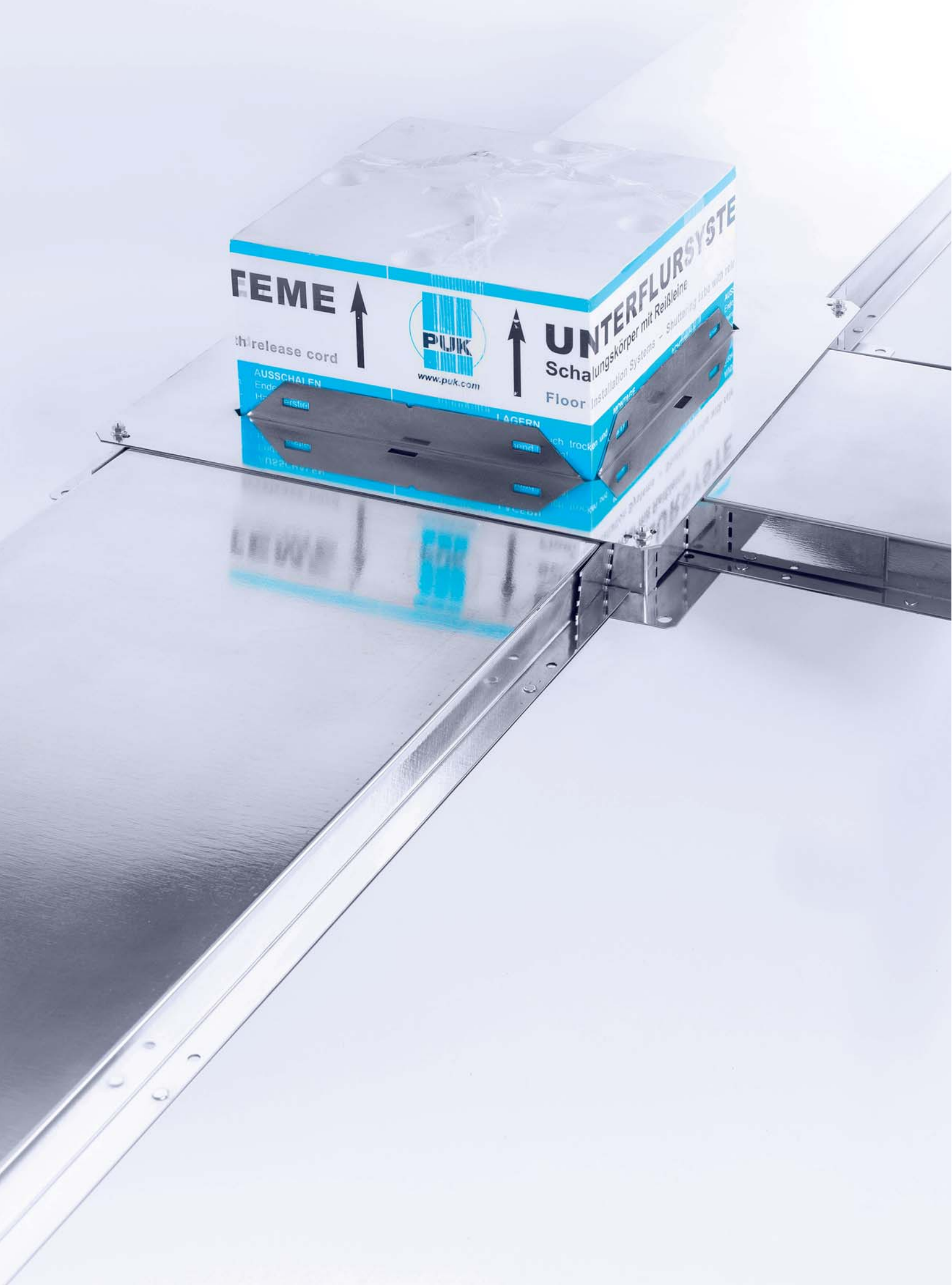
UBKTR barrier strip

	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

optional:

SNA nail plug (page B16)





TEME



UNTERFLURSYSTEME
Schalungskörper mit Reißleine
Floor Installation Systems

th release cord

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FLOOR TRUNKING SYSTEMS

UNDER FLOOR DUCT SYSTEM

B04-B10

CABLE DUCT SYSTEM

B12-B14

SHUTTERING UNIT

B15

ACCESSORIES

B16



S

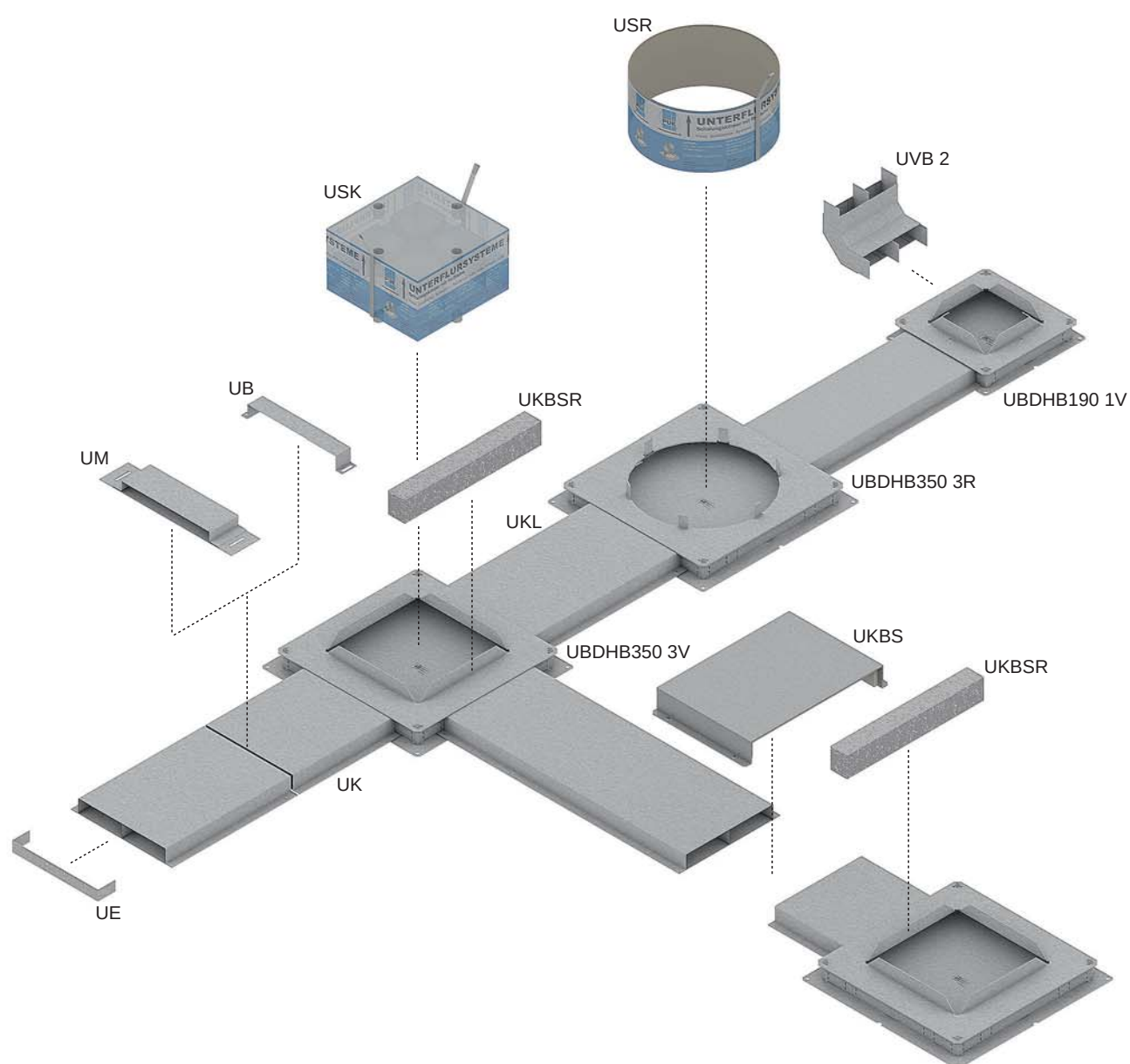
SNA nail plug [B16](#)

U

UB Jointing bracket [B04](#)
UBDEL grounding lug [B16](#)
UBDHB 122R Hollow-space floor box, single, round [B09](#)
UBDHB Z grounding clamp [B16](#)
UBDHB190 1V Hollow space floor box single, quadrangular [B09](#)
UBDHB250 2R hollow space floor box double, round [B08](#)
UBDHB250 2V hollow space floor box double, quadrangular [B08](#)
UBDHB250 3V hollow space floor box triple, quadrangular [B07](#)
UBDHB350 2R hollow space floor box double, round [B07](#)
UBDHB350 3R hollow space floor box triple, round [B06](#)
UBDHB350 3V hollow space floor box triple, quadrangular [B06](#)
UBKM Bitumen glue [B16](#)
UE end piece [B05](#)
UGKB protection strip [B16](#)
UK screed covered duct, 2 compartments [B04](#)
UKAZ extension accessories [B14](#)
UKBS channel partition - fire resistant [B10](#)
UKBSR EasyFoam foam plugs [B10](#)
UKD dummy cover for cable duct [B13](#)
UKDA 185V cable duct assembly cover, quadrangular [B13](#)
UKDA 260R cable duct assembly cover, round [B13](#)
UKDA 260V cable duct assembly cover, quadrangular [B13](#)
UKDA 308R cable duct assembly cover, round [B13](#)
UKEB end piece [B14](#)
UKL screed covered duct, 3 compartments [B04](#)
UKR 2 cable duct bottom piece 2 compartments [B12](#)
UKR 3 cable duct bottom piece 3 compartments [B12](#)
UKTR barrier strip [B14](#)
UM mounting sleeve [B05](#)
UN nail plug [B16](#)
USK shuttering unit quadrangular [B15](#)
USKH Heat-resistant formwork element, quadrangular [B15](#)
USKR Formwork element, round [B15](#)
USR shuttering tube [B15](#)
USRH Heat-resistant formwork pipe, round [B15](#)
UVB 2 vertical bend, 2 partitions [B05](#)
UVB 3 vertical bend, 3 partitions [B05](#)

SYSTEM OVERVIEW

UNDER FLOOR DUCT SYSTEM



FLOOR TRUNKING SYSTEMS

UNDER FLOOR DUCT SYSTEM

UK screed covered duct, 2 compartments

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

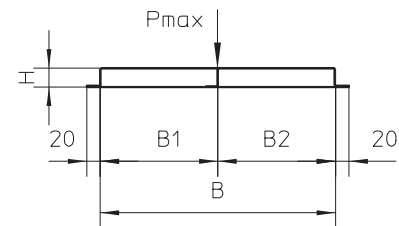
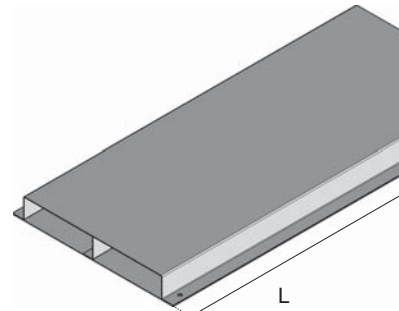
	H mm	B mm	B1 mm	B2 mm	L mm	Pmax kN	G kg
S							
UK 2-28-190S	28	190	95	95	3000	0,75	15,50
UK 2-28-250S	28	250	125	125	3000	0,75	19,00
UK 2-28-350S	28	350	175	175	3000	0,75	24,70
UK 2-38-190S	38	190	95	95	3000	0,75	16,50
UK 2-38-250S	38	250	125	125	3000	0,75	19,80
UK 2-38-350S	38	350	175	175	3000	0,75	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

optional:

UB Jointing bracket (page B04)

UGKB protection strip (page B16)

UN nail plug (page B16)



UKL screed covered duct, 3 compartments

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

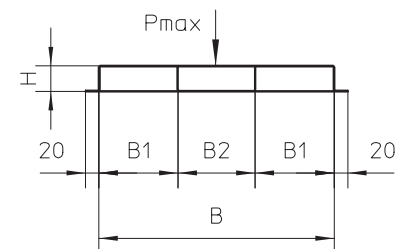
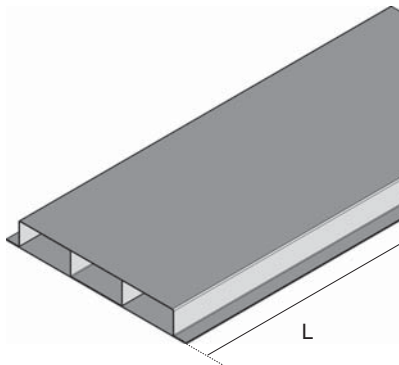
	H mm	B mm	B1 mm	B2 mm	L mm	Pmax kN	G kg
S							
UKL 3-28-250S	28	250	82	84	3000	0,75	17,90
UKL 3-28-350S	28	350	116	116	3000	0,75	23,30
UKL 3-38-250S	38	250	82	84	3000	0,75	18,70
UKL 3-38-350S	38	350	116	116	3000	0,75	24,20
UKL 3-48-250S	48	250	82	84	3000	0,75	19,70
UKL 3-48-350S	48	350	116	116	3000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

optional:

UB Jointing bracket (page B04)

UGKB protection strip (page B16)

UN nail plug (page B16)

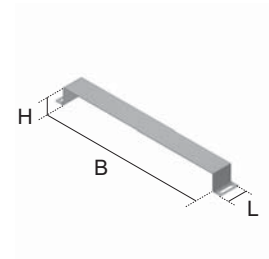


UB Jointing bracket

	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

optional:

UN nail plug (page B16)

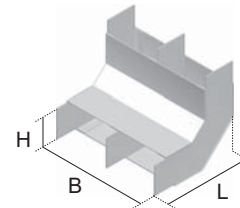


FLOOR TRUNKING SYSTEMS

UNDER FLOOR DUCT SYSTEM

UVB 2 vertical bend, 2 partitions

	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



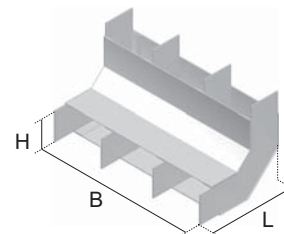
optional:

UB Jointing bracket (page B04)

UN nail plug (page B16)

UVB 3 vertical bend, 3 partitions

	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



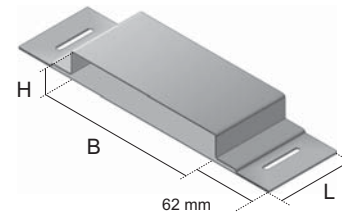
optional:

UB Jointing bracket (page B04)

UN nail plug (page B16)

UM mounting sleeve

	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



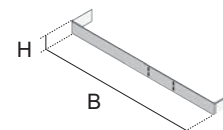
optional:

UN nail plug (page B16)

UE end piece

Suitable for B = 190, 250 and 350 mm.

	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

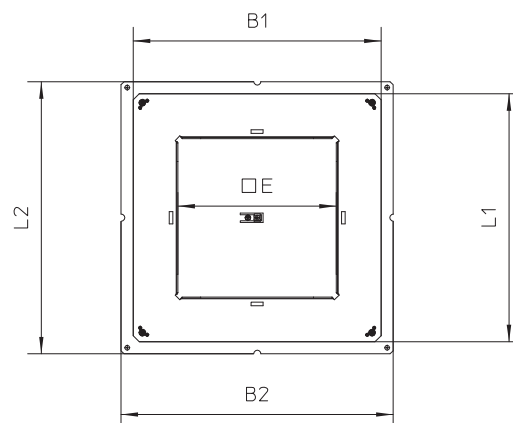
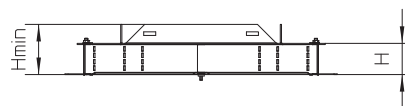
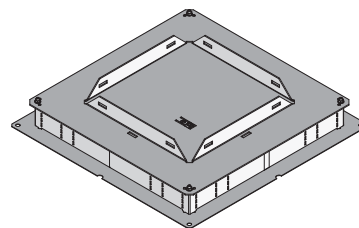
Hollow space floor box with an installation opening of 261x261 mm for quadrangular installation units.
For assembly instructions, see the chapter assembly.

	H mm	Hmin 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

optional:

USK shuttering unit quadrangular (page B15)

UN nail plug (page B16)



UBDHB350 3R hollow space floor box triple, round

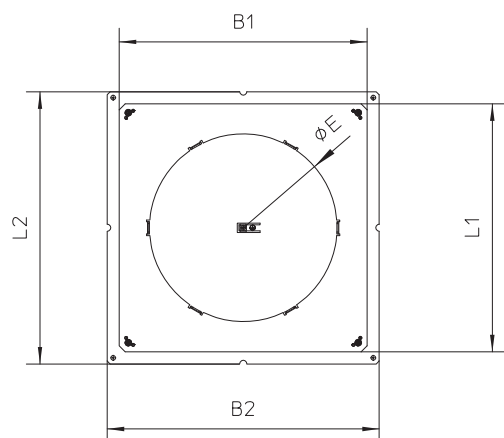
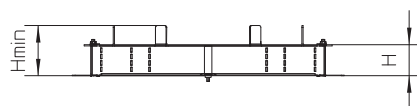
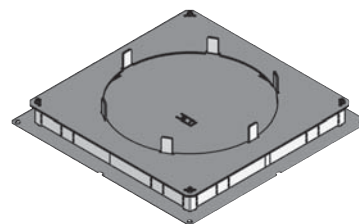
Hollow space floor box with an installation opening of 307 mm for round installation units.
For assembly instructions, see the chapter assembly.

	H mm	Hmin 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

optional:

USR shuttering tube (page B15)

UN nail plug (page B16)



FLOOR TRUNKING SYSTEMS

UNDER FLOOR DUCT SYSTEM HOLLOW SPACE FLOOR BOX

UBDHB350 2R hollow space floor box double, round

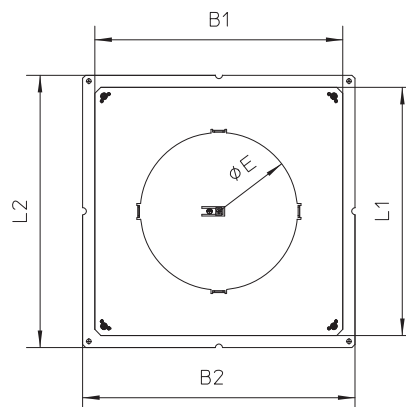
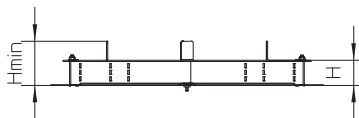
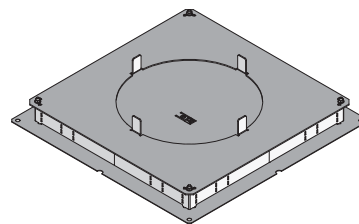
Hollow space floor box with an installation opening of 260 mm for round installation units.
For assembly instructions, see the chapter assembly.

	H mm	Hmin 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

optional:

USR shuttering tube (page B15)

UN nail plug (page B16)



UBDHB250 3V hollow space floor box triple, quadrangular

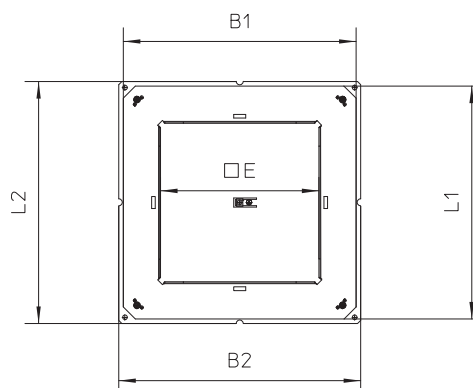
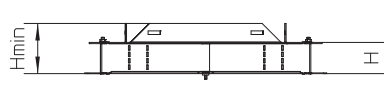
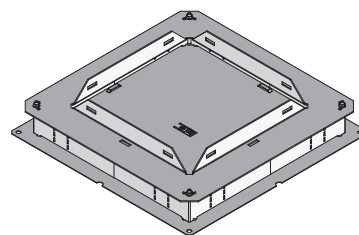
Hollow space floor box with an installation opening of 261x261 mm for quadrangular installation units.
For assembly instructions, see the chapter assembly.

	H mm	Hmin 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

optional:

USK shuttering unit quadrangular (page B15)

UN nail plug (page B16)



FLOOR TRUNKING SYSTEMS

UNDER FLOOR DUCT SYSTEM HOLLOW SPACE FLOOR BOX

UBDHB250 2R hollow space floor box double, round

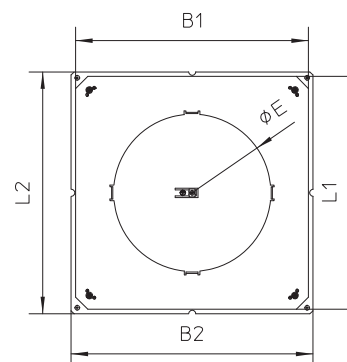
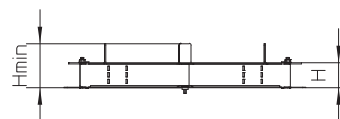
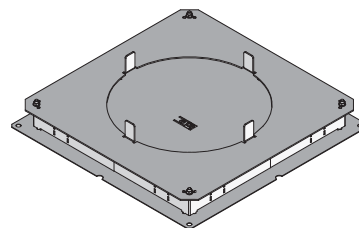
Hollow space floor box with an installation opening of 260 mm for round installation units.
For assembly instructions, see the chapter assembly.

	H mm	Hmin 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

optional:

USR shuttering tube (page B15)

UN nail plug (page B16)



UBDHB250 2V hollow space floor box double, quadrangular

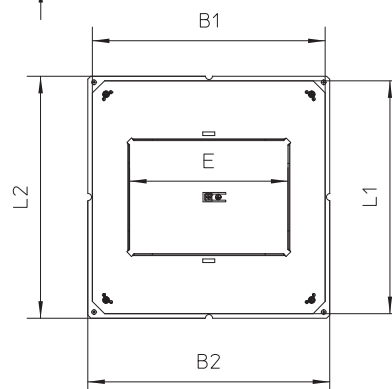
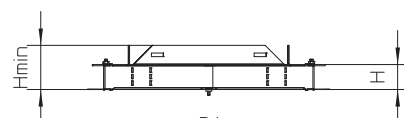
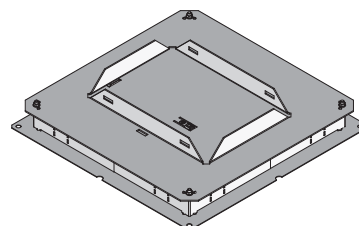
Hollow space floor box with an installation opening of 186x261mm for quadrangular installation units.
For assembly instructions, see the chapter assembly.

	H mm	Hmin 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

optional:

USK shuttering unit quadrangular (page B15)

UN nail plug (page B16)



FLOOR TRUNKING SYSTEMS

UNDER FLOOR DUCT SYSTEM HOLLOW SPACE FLOOR BOX

UBDHB190 1V Hollow space floor box single, quadrangular

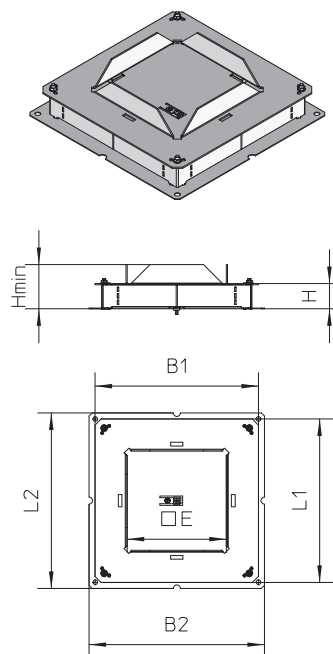
Hollow space floor box with an installation opening of 164x164mm for quadrangular single outlets.
For assembly instructions, see the chapter assembly.

	H mm	Hmin 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

optional:

UN nail plug (page B16)

USK shuttering unit quadrangular (page B15)



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

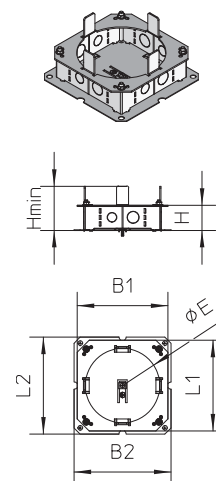
Hollow space floor box with an installation opening of 122mm for round single outlets.
For assembly instructions, see the chapter assembly.

	H mm	Hmin 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

optional:

USKR Formwork element, round (page B15)

UN nail plug (page B16)



FLOOR TRUNKING SYSTEMS

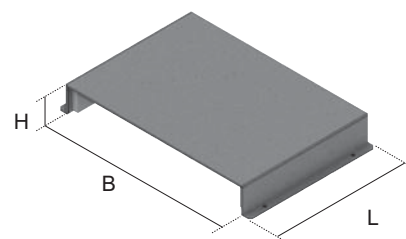
UNDER FLOOR DUCT SYSTEM FIRE PREVENTION

UKBS channel partition - fire resistant

To be used in fire protection wall WD90.

For assembly instructions, see the chapter assembly.

	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

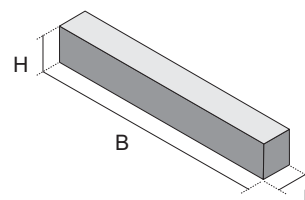


UKBSR EasyFoam foam plugs

For smoke-proof insulation of a hollow space floor box.

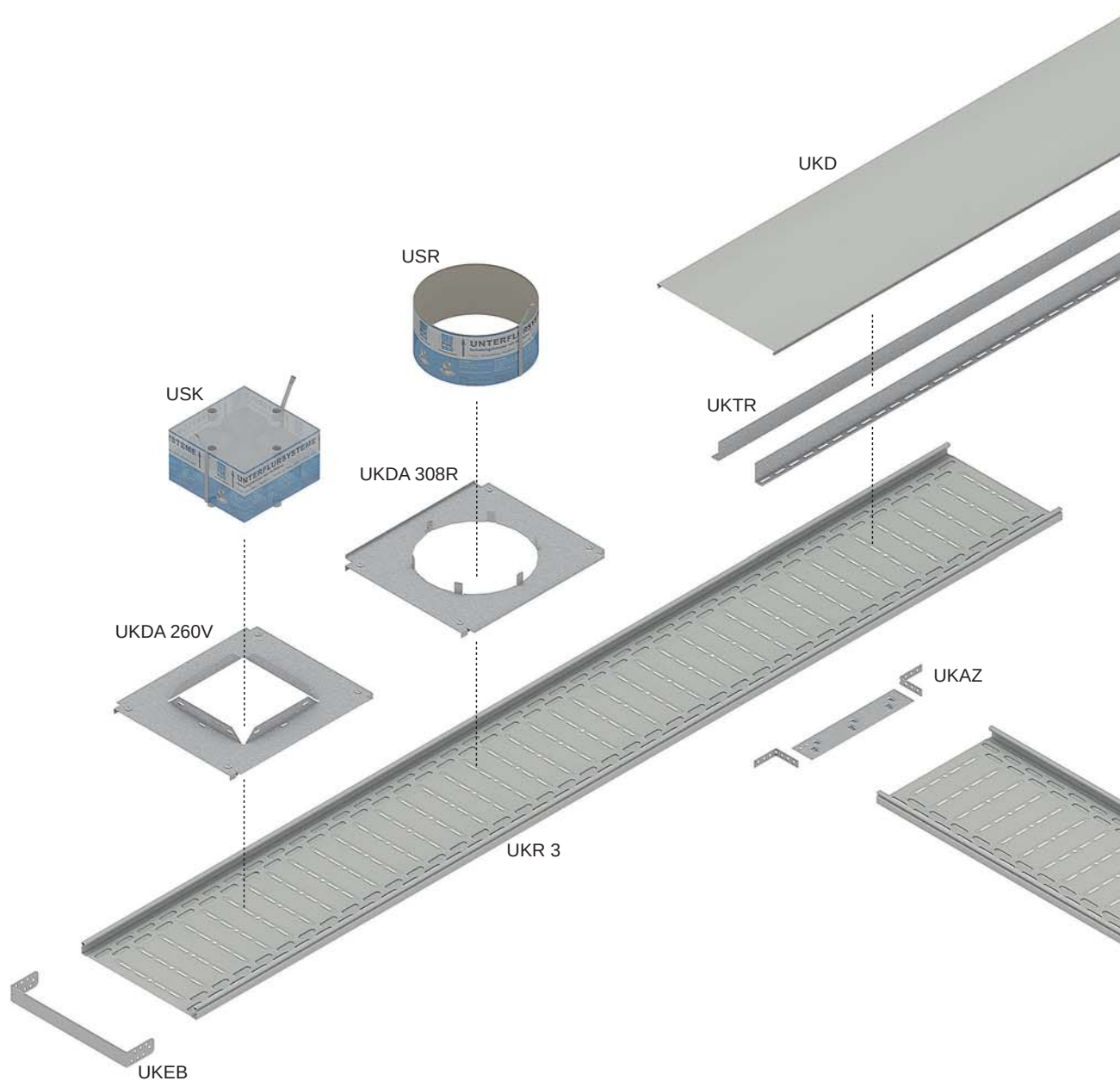
For assembly instructions, see the chapter assembly.

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



SYSTEM OVERVIEW

CABLE DUCT SYSTEM



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.

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

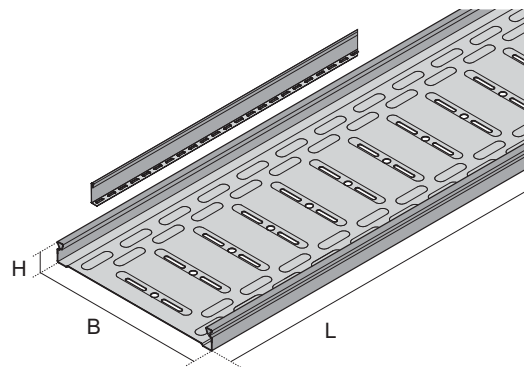
included:

1 x **UKTR 35S** barrier strip (page B14)

3 x **SNA 6x30/5** nail plug (page B16)

optional:

VB connection plate (catalog 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.

	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

included:

2 x **UKTR 35S** barrier strip (page B14)

6 x **SNA 6x30/5** nail plug (page B16)

	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

included:

2 x **UKTR 60S** barrier strip (page B14)

6 x **SNA 6x30/5** nail plug (page B16)

	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

included:

2 x **UKTR 85S** barrier strip (page B14)

6 x **SNA 6x30/5** nail plug (page B16)

	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

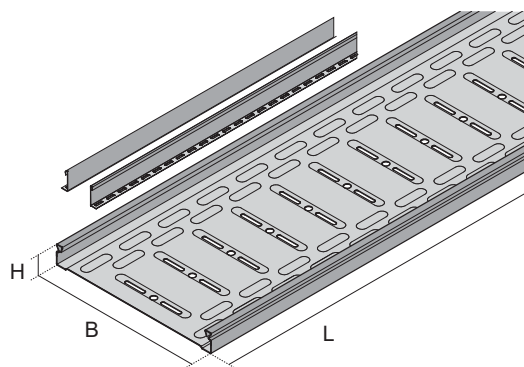
included:

2 x **UKTR 110S** barrier strip (page B14)

6 x **SNA 6x30/5** nail plug (page B16)

optional:

VB connection plate (catalog Cable trays)

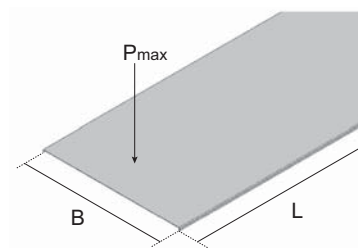


FLOOR TRUNKING SYSTEMS

CABLE DUCT SYSTEM

UKD dummy cover for cable duct

	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



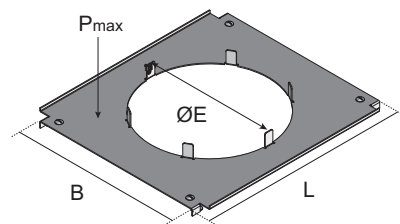
UKDA 308R cable duct assembly cover, round

	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

optional:

USR shuttering tube (page B15)

UBDEL grounding lug (page B16)



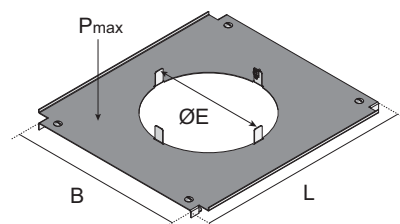
UKDA 260R cable duct assembly cover, round

	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

optional:

USR shuttering tube (page B15)

UBDEL grounding lug (page B16)



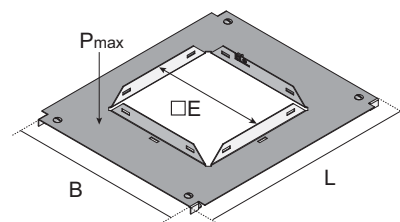
UKDA 260V cable duct assembly cover, quadrangular

	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

optional:

USK shuttering unit quadrangular (page B15)

UBDEL grounding lug (page B16)



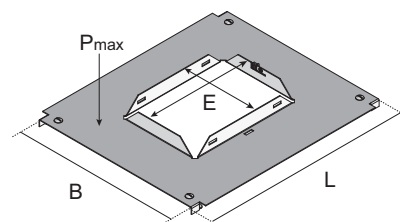
UKDA 185V cable duct assembly cover, quadrangular

	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

optional:

USK shuttering unit quadrangular (page B15)

UBDEL grounding lug (page B16)



FLOOR TRUNKING SYSTEMS

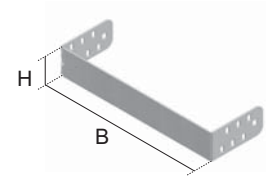
CABLE DUCT SYSTEM

UKEB end piece

	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

included:

1 x **KLR** clamping assembly (catalog Cable trays)



	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

included:

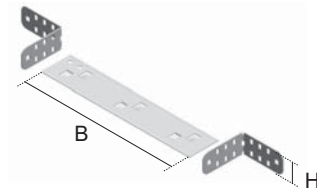
2 x **KLR** clamping assembly (catalog Cable trays)

UKAZ extension accessories

	H mm	B mm	G kg
S			
UKAZ 35-30S	20	300	0,40
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

optional:

SNA nail plug (page B16)

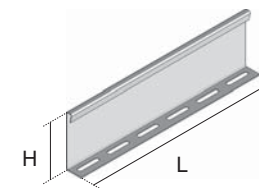


UKTR barrier strip

	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

optional:

SNA nail plug (page B16)



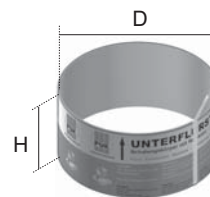
FLOOR TRUNKING SYSTEMS

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.

	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.

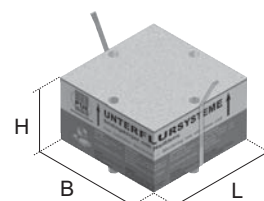
	H mm	D mm	G kg
STY			
USK 120R-150	150	122	0,42



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.

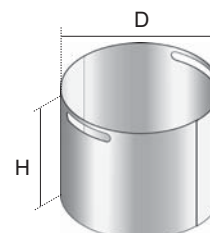
	H mm	B mm	L mm	G kg
STY				
USK 259V-225	225	262	262	0,24
USK 259V-150	150	262	262	0,19
USK 185V-150	150	262	186	0,16
USK 160V-150	150	164	164	0,14



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.

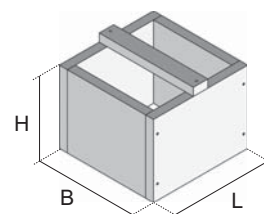
	H mm	D mm	TL mm	Tmax °C	G kg
S					
USRH 308-200	250	308	< 2	250	1,90



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.

	H mm	B mm	L mm	TL mm	Tmax °C	G kg
H						
USKH 259V-200	200	261	261	< 2	250	2,90



FLOOR TRUNKING SYSTEMS

ACCESSORIES

UN nail plug

		G kg
Z		
UN 5/38		<0.01



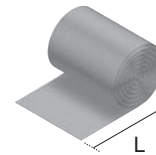
SNA nail plug

		G kg
Z		
SNA 6x30/5		0,02



UGKB protection strip

		L mm	G kg
PET			
UGKB		50000	0,40



UBKM Bitumen glue

		G kg
UBKM		0,50



UBDEL grounding lug

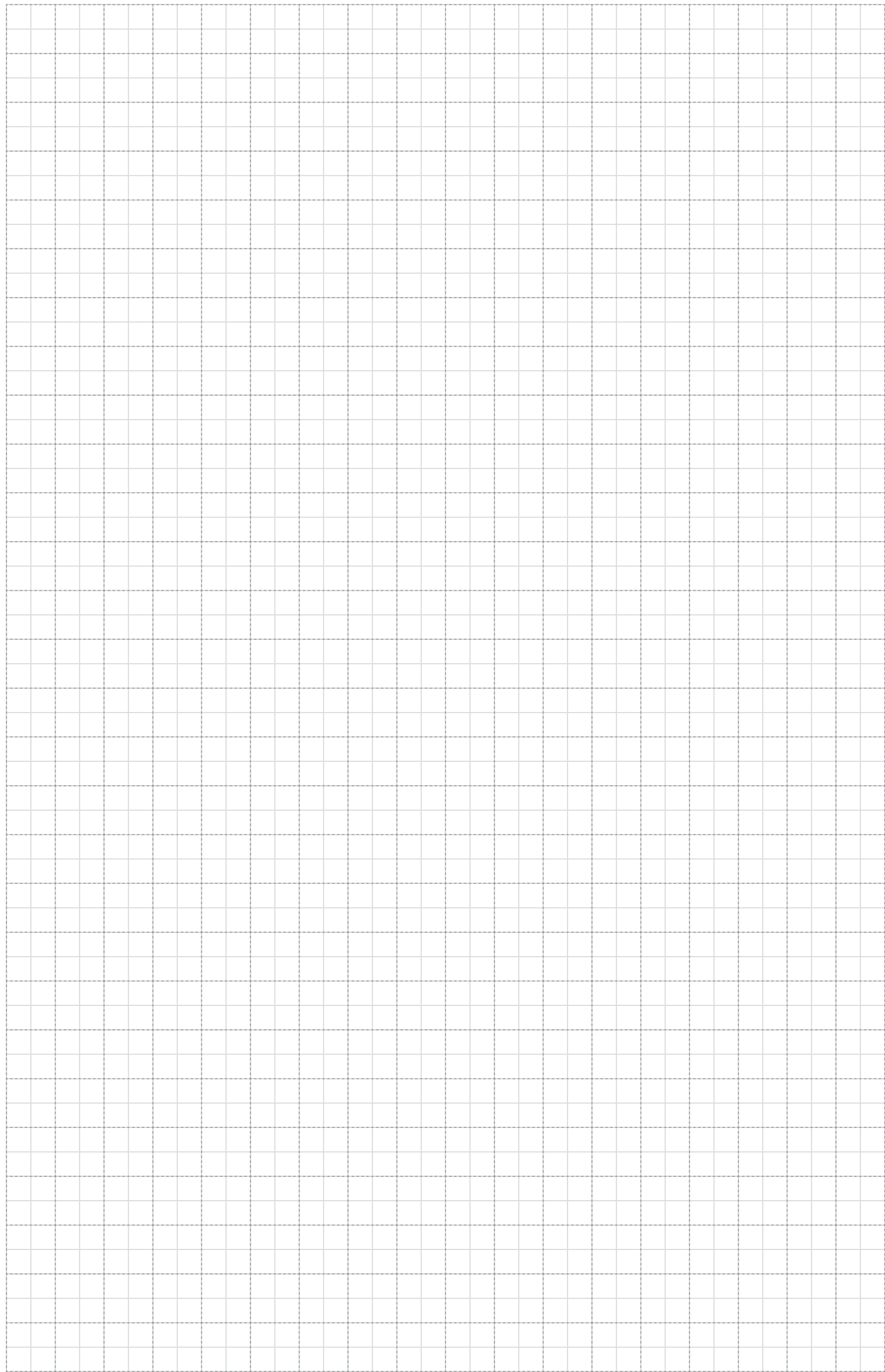
		G kg
S		
UBDEL		<0.01



UBDHB Z grounding clamp

		G kg
S		
UBDHB-Z		<0.01







INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNIT MADE OF PLASTIC

C04-C07

CARTRIDGE INSTALLATION UNIT
ANGULAR

C10-C12

INSTALLATION UNITS ACCESSORIES

C13-C16

INSTALLATION UNIT MADE OF
HIGH-GRADE STEEL

C18-C33

SINGLE OUTLET BODO, ROUND

C36-C39

SINGLE OUTLET, QUADRANGULAR

C42-C47



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INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

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BODO N3 Single-outlet with floor socket outlet, wet maintenance, round [C36](#)
BODO NL Single-outlet, wet maintenance, round, empty [C37](#)
BODO T Single-outlet with floor socket outlet, dry maintenance, round [C37](#)
BODO TL Single-outlet, dry maintenance, round, empty [C38](#)

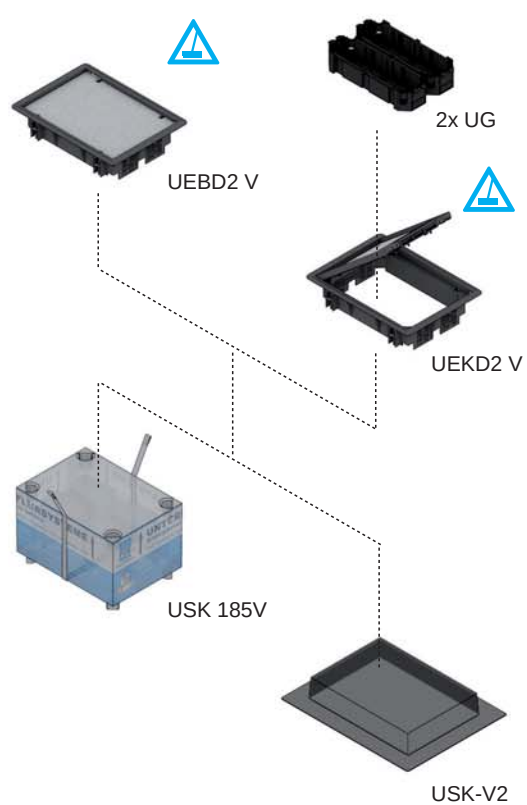
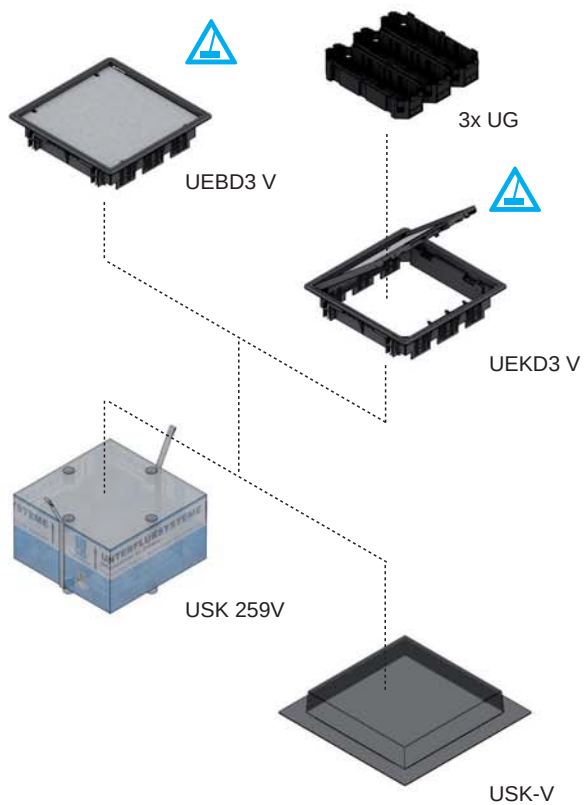
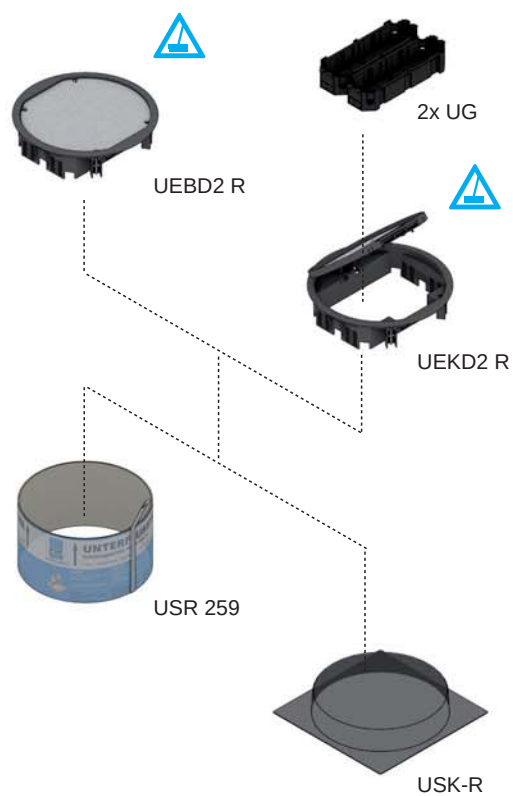
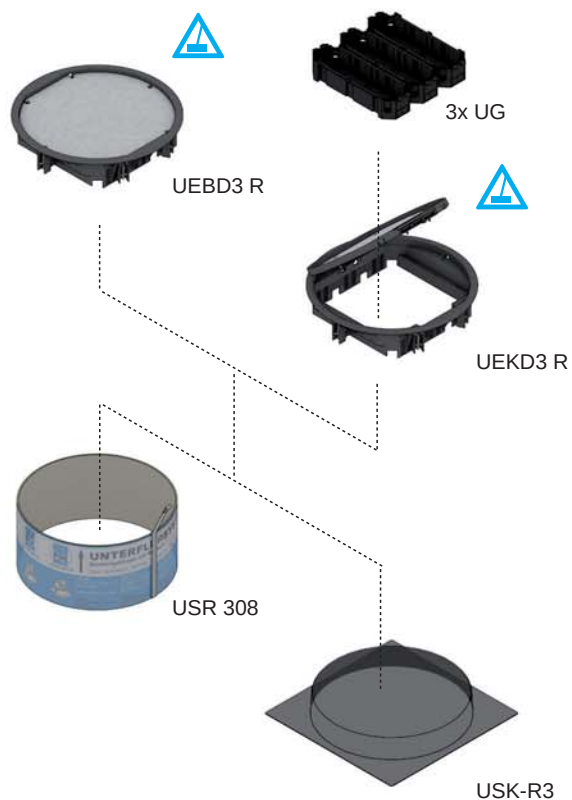
U

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UBP V [C23](#)
UBP VR Blind cover mounting hole [C14](#)
UDBS 40-80 claw for plastic dummy cover [C16](#)
UDBS R 4 hollow space floor claw for Dummy cover, round [C15](#)
UDBS R 6 hollow space floor claw for Dummy cover, round [C15](#)
UDBS V 4 hollow space floor claw for Dummy cover, quadrangular [C15](#)
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UDKS R 4 hollow space floor claws for hinged cover, round [C14](#)
UDKS R 6 hollow space floor claws for hinged cover, round [C15](#)
UDKS V 4 hollow space floor claws for hinged cover, quadrangular [C15](#)
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UEBD R E Triple dummy cartridge unit, round, levellable [C18](#)
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UEBD V cover inlay, dummy cover, quadrangular [C13](#)
UEBD V E triple dummy cartridge unit, quadrangular [C24](#)
UEBD VP E Dummy cartridge unit, tripple, plan, quadrangular [C25](#)
UEBD1 G45 Body single outlet [C47](#)
UEBD1-1 V E Dummy single-outlet cartridge, quadrangular, levellable [C42](#)
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UEBD2 V installation unit - dummy cover - double, quadrangular [C06](#)
UEBD2 V E dummy cartridge unit double, quadrangular, levellable [C23](#)
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UEBDD V E Dummy cartridge installation unit, triple, quadrangular [C11](#)
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UEBD SM V heavy-duty tube-cartridge unit triple, quadrangular [C28](#)
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UEKD1-2 V E Single-outlet cable cartridge, quadrangular, levellable [C45](#)
UEKD1-4 G45 Body single outlet [C47](#)
UEKD1-4 V E Single-outlet cable cartridge, duplex, quadrangular, levellable [C43](#)
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UEKD3 R installation unit - hinged cover triple, round [C05](#)
UEKD3 V installation unit - hinged cover triple, quadrangular [C07](#)
UEKDD V E cartridge unit - hinged cover triple, quadrangular [C12](#)
UEKDD1-2 V E cartridge unit - hinged cover single, quadrangular [C11](#)
UEKDD2 V E cartridge unit - hinged cover double, quadrangular [C12](#)
UEKDE R cover insert, high-grade steel cable outlet cartridge, triple [C30](#)
UEKDE V cover insert, high-grade steel cable outlet cartridge, triple [C30](#)
UEKDS R E heavy-duty cable outlet cartridge, triple, round, levellable [C20](#)
UEKDS V E heavy-duty cable outlet cartridge, triple, quadrangular [C26](#)
UET tube for wet maintenance [C31](#)
UET112 tube for wet maintenance [C31](#)
UET80 tube for wet maintenance [C39](#)

UETD tube cover [C31](#)
UETD112 tube cover [C31](#)
UETD80 tube cover [C39](#)
UGD 20 rubber strips [C32](#)
UGD R rubber seal, round [C32](#)
UGD V rubber seal, quadrangular [C32](#)
UGD1-1 V rubber seal, quadrangular [C47](#)
UGD1-2 V rubber seal, quadrangular [C47](#)
UGD2 V rubber seal, quadrangular [C32](#)
UGD3 V rubber seal, quadrangular [C32](#)
UGDB15 rubber seal, round [C32](#)
UGEA retrofit kit for device cup [C14](#)
UGEAR set of registering leads, round [C22](#)
UGEAR ELS grounding angle bracket [C33](#)
UGEARL registering extension, triple [C14](#)
UGEAV set of registering leads, quadrangular [C29](#)
UGEAV1-2 set of registering leads, quadrangular [C45](#)
UGEAV2 set of registering leads, quadrangular [C28](#)
UGM rubber sleeve [C39](#)
UGM SLF Subsonic noise sleeve socket - levelling support [C33](#)
UGR1-4 Device cup, round, pre-assembled [C46](#)
UKS Phillips screw [C33](#)
ULS R sealing bag [C14](#)
UNE levelling unit dummy, triple, quadrangular [C29](#)
USH 40 siphon [C33](#)
USK R shuttering round [C13](#)
USK R122 shuttering round [C39](#)
USK V shuttering, quadrangular [C14](#)
UVA GB grounding line [C31](#)
UVA GB1 grounding line [C31](#)
UWZ IS Allen wrench [C39](#)
UWZ TS Torx key [C39](#)

SYSTEM OVERVIEW

INSTALLATION UNIT MADE OF PLASTIC



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.

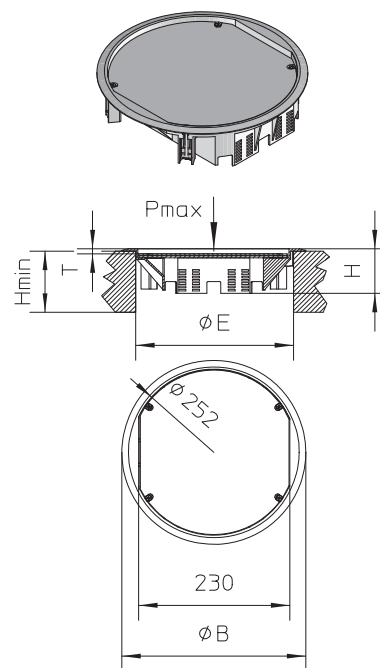
	H mm	Hmin mm	B mm	E mm	t mm	Pmax kN	colour	IPn	G kg
PA									
UEBD2-R-G	65	65	280	260	8	2	RAL 7011	IP 30	1,32
UEBD2-R-S	65	65	280	260	8	2	RAL 9011	IP 30	1,32

included:

1 x **UDBS-R 4** hollow space floor claw for Dummy cover, round (page C15)

optional:

UEBD R cover inlay, dummy cover, round (page C13)



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.

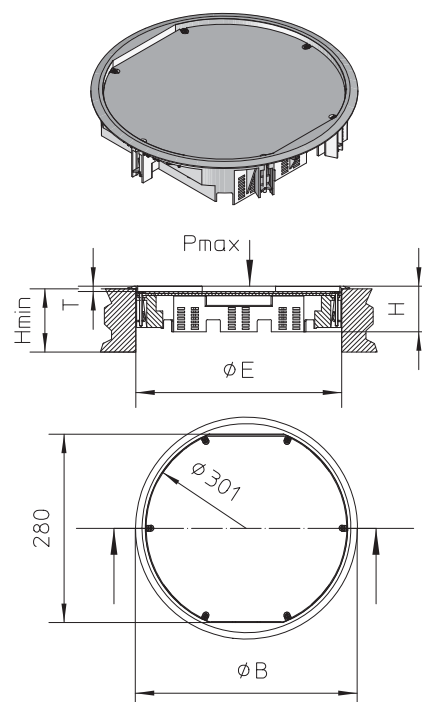
	H mm	Hmin mm	B mm	E mm	t mm	Pmax kN	colour	IPn	G kg
PA									
UEBD3-R-G	65	65	330	307	8	2	RAL 7011	IP 30	1,87
UEBD3-R-S	65	65	330	307	8	2	RAL 9011	IP 30	1,87

included:

1 x **UDBS-R 6** hollow space floor claw for Dummy cover, round (page C15)

optional:

UEBD R cover inlay, dummy cover, round (page C13)



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.

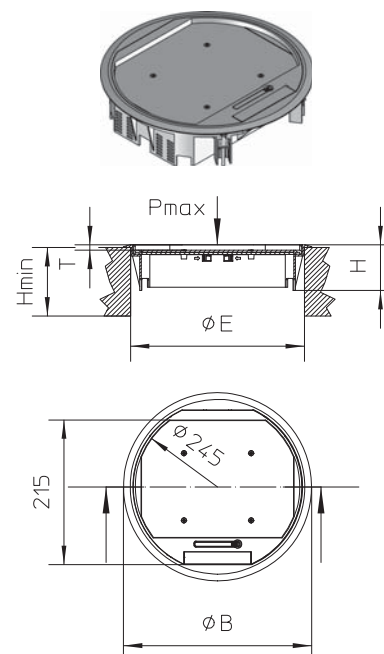
PA	H mm	Hmin mm	B mm	E mm	t mm	Pmax kN	colour	IPn	IPg	G kg
UEKD2-R-G	65	74	280	260	8	2	RAL 7011	IP 30	IP 20	1,30
UEKD2-R-S	65	74	280	260	8	2	RAL 9011	IP 30	IP 20	1,30

included:

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

optional:

UEKD R cover inlay, hinged cover, round (page C13)



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.

PA	H mm	Hmin mm	B mm	E mm	t mm	Pmax kN	colour	IPn	IPg	G kg
UEKD3-R-G	65	74	330	307	8	2	RAL 7011	IP 30	IP 20	1,84
UEKD3-R-S	65	74	330	307	8	2	RAL 9011	IP 30	IP 20	1,84

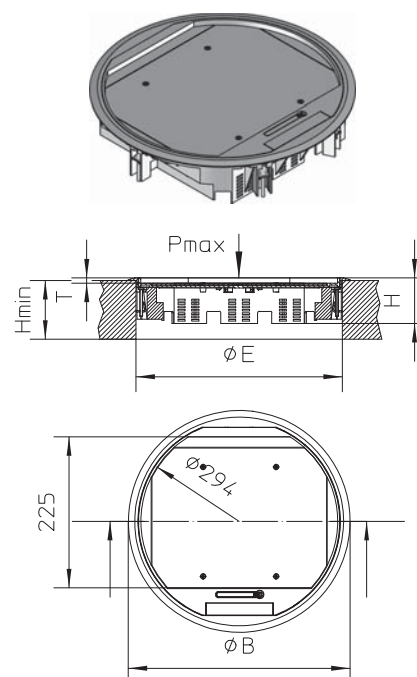
included:

1 x **UDKS-R 6** hollow space floor claws for hinged cover, round (page C15)

optional:

UEKD R cover inlay, hinged cover, round (page C13)

UGEARL registering extension, triple (page C14)



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.

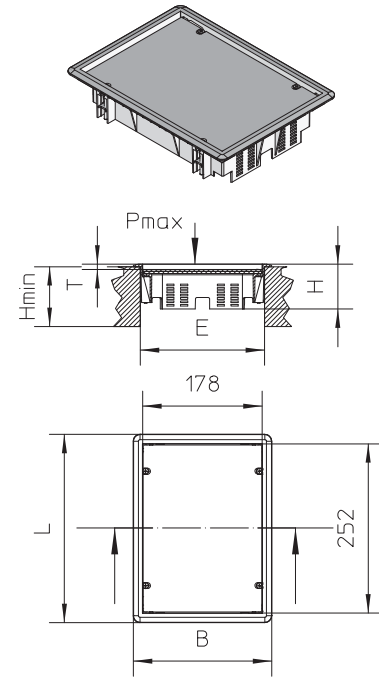
	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	colour	IPn	G kg
PA										
UEBD2-V-G	65	65	206	280	261 x 186	8	2	RAL 7011	IP 30	1,30
UEBD2-V-S	65	65	206	280	261 x 186	8	2	RAL 9011	IP 30	1,30

included:

1 x **UDBS-V 4** hollow space floor claw for Dummy cover, quadrangular (page C15)

optional:

UEBD V cover inlay, dummy cover, quadrangular (page C13)



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.

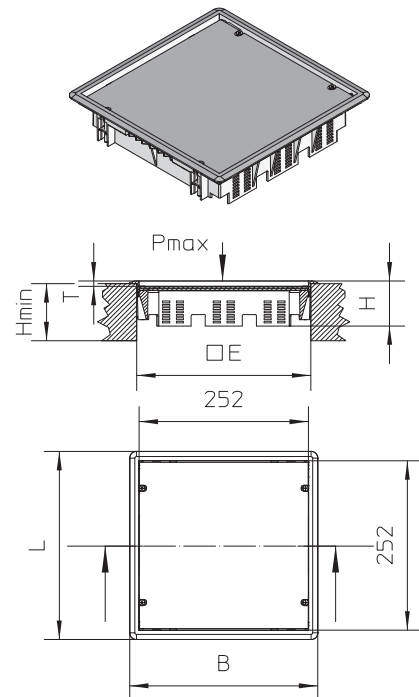
	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	colour	IPn	G kg
PA										
UEBD3-V-G	65	65	280	280	261 x 261	8	2	RAL 7011	IP 30	1,50
UEBD3-V-S	65	65	280	280	261 x 261	8	2	RAL 9011	IP 30	1,50

included:

1 x **UDBS-V 4** hollow space floor claw for Dummy cover, quadrangular (page C15)

optional:

UEBD V cover inlay, dummy cover, quadrangular (page C13)



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.

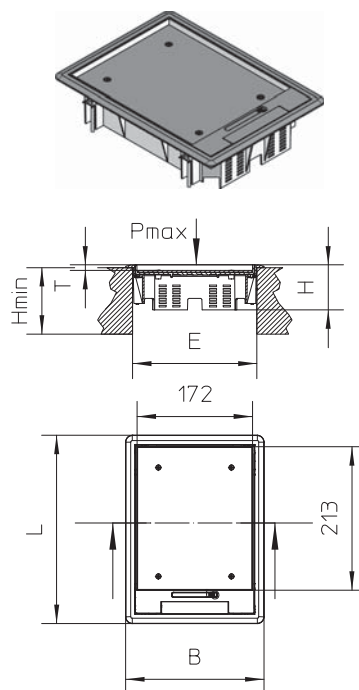
PA	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	colour	IPn	IPg	G kg
UEKD2-V-G	65	74	206	280	261 x 186	8	2	RAL 7011	IP 30	IP 20	1,40
UEKD2-V-S	65	74	206	280	261 x 186	8	2	RAL 9011	IP 30	IP 20	1,40

included:

1 x **UDKS-V 4** hollow space floor claws for hinged cover, quadrangular (page C15)

optional:

UEKD V cover inlay, hinged cover, quadrangular (page C13)



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.

PA	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	colour	IPn	IPg	G kg
UEKD3-V-G	65	74	280	280	261 x 261	8	2	RAL 7011	IP 30	IP 20	1,60
UEKD3-V-S	65	74	280	280	261 x 261	8	2	RAL 9011	IP 30	IP 20	1,60

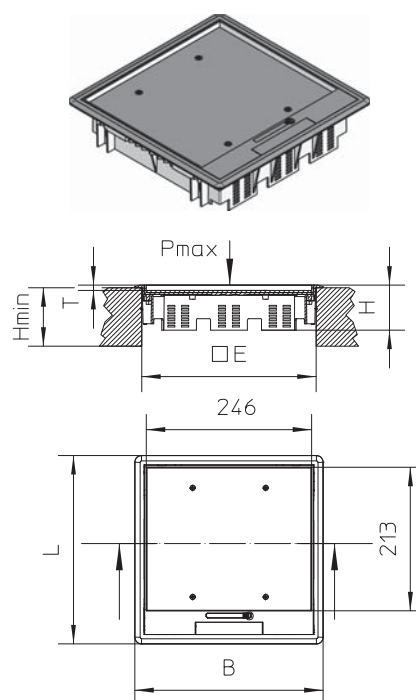
included:

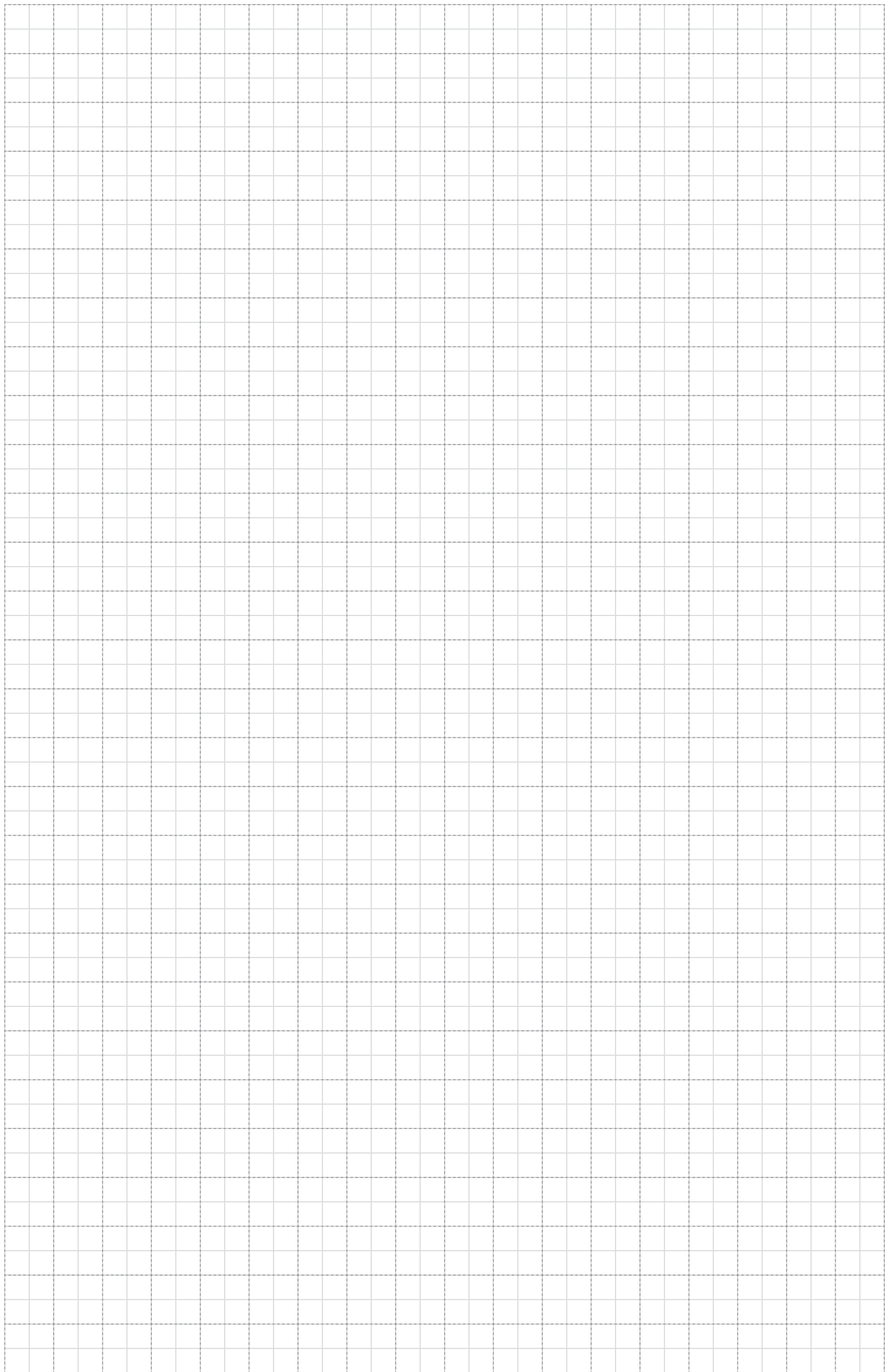
1 x **UDKS-V 4** hollow space floor claws for hinged cover, quadrangular (page C15)

optional:

UEKD V cover inlay, hinged cover, quadrangular (page C13)

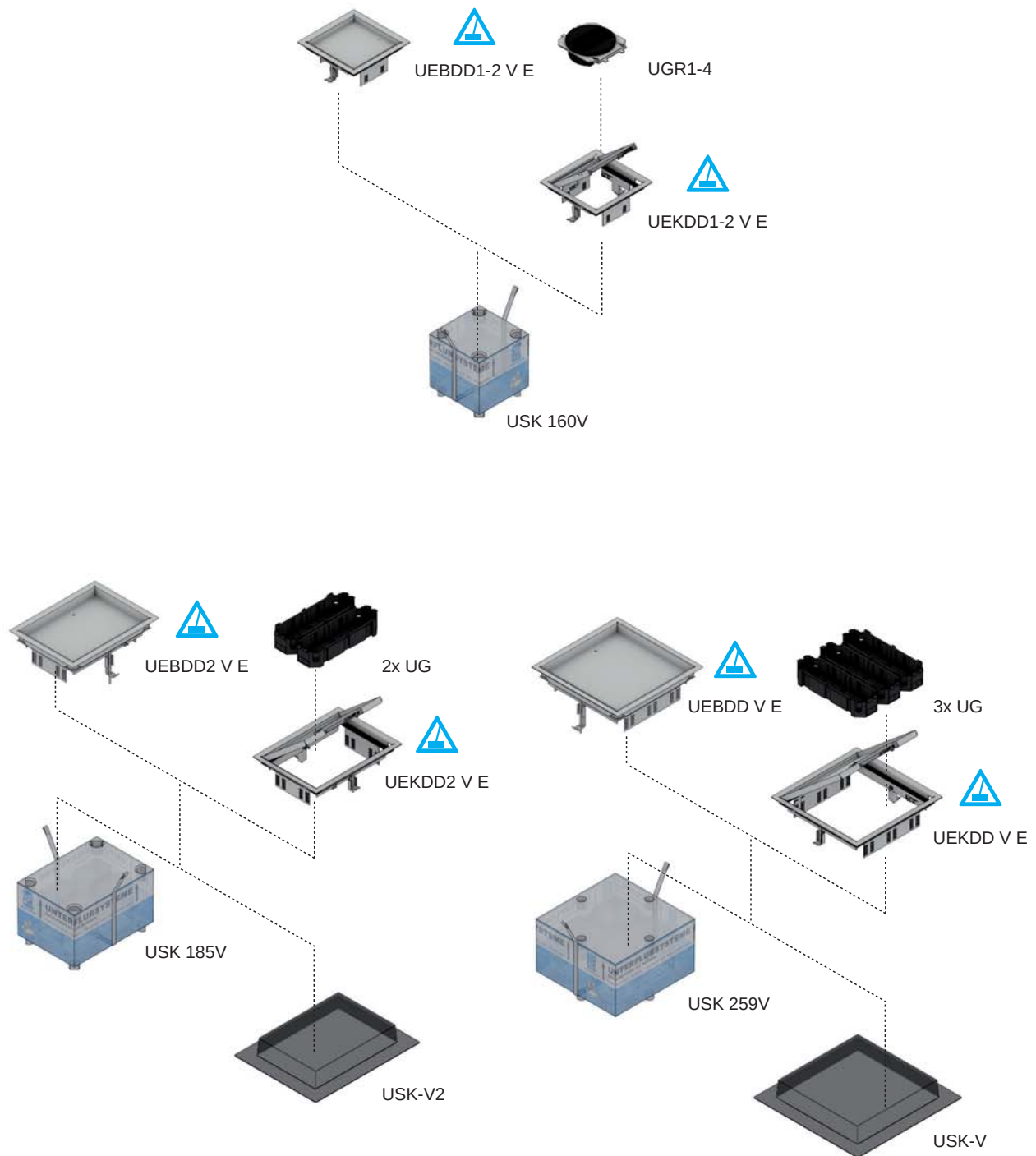
UGEARL registering extension, triple (page C14)





SYSTEM OVERVIEW

CARTRIDGE INSTALLATION UNIT ANGULAR



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

CARTRIDGE INSTALLATION UNIT ANGULAR

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.

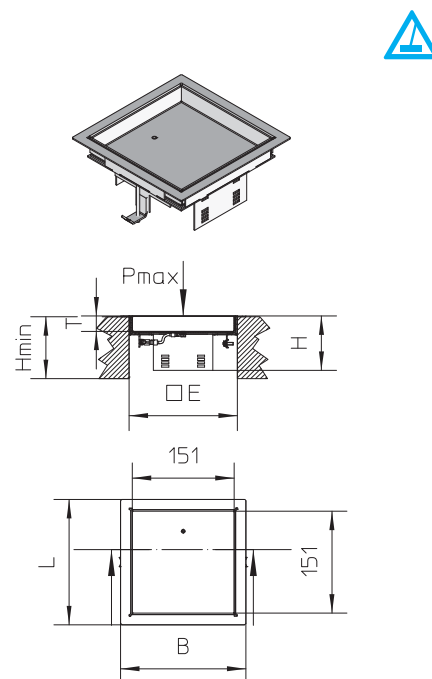
For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	G kg
UEBDD1-2 15-V E	71	80	187	187	165 x 165	12	1,5	IP 30	1,00
UEBDD1-2 25-V E	81	90	187	187	165 x 165	22	1,5	IP 30	1,20

included:

1 x **UGD1-2-V 2** rubber seal, quadrangular (page C47)

2 x **UDBS 40-80** claw for plastic dummy cover (page C16)



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.

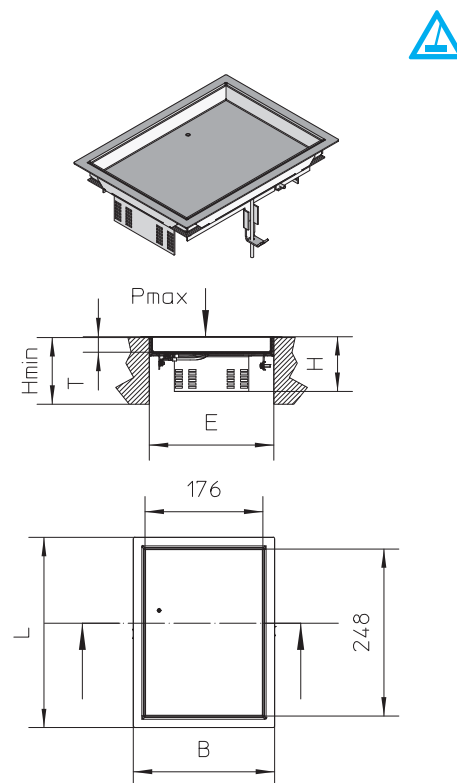
For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	G kg
UEBDD2 15-V E	71	90	211	284	261 x 186	12	1,5	IP 30	1,71
UEBDD2 25-V E	81	100	211	284	261 x 186	22	1,5	IP 30	2,50

included:

1 x **UGD2-V 2** rubber seal, quadrangular (page C32)

2 x **UDBS 40-80** claw for plastic dummy cover (page C16)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

CARTRIDGE INSTALLATION UNIT ANGULAR

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.

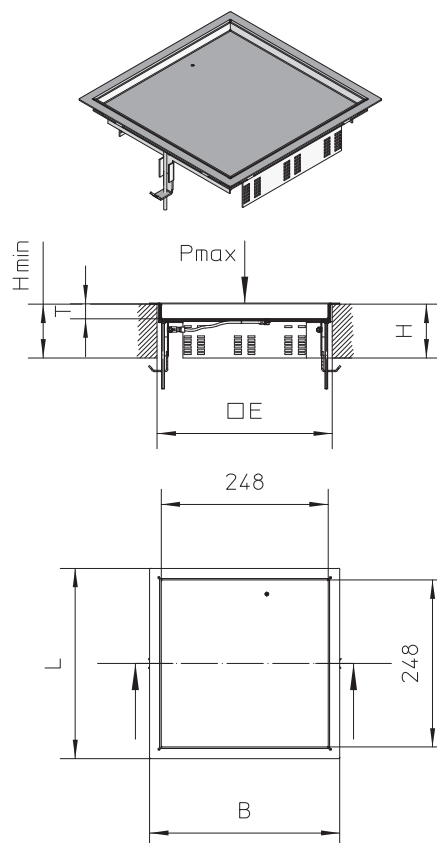
For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	G kg
UEBDD 15-V E	72	90	284	284	261 x 261	12	2	IP 30	2,10
UEBDD 25-V E	82	100	284	284	261 x 261	22	2	IP 30	2,30

included:

1 x **UGD-V 2** rubber seal, quadrangular (page C32)

2 x **UDBS 40-80** claw for plastic dummy cover (page C16)



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.

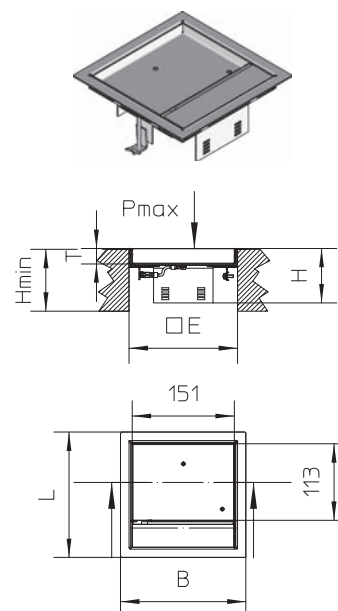
For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	G kg
UEKDD1-2 15-V E	71	80	187	187	165 x 165	12	1,5	IP 30	IP 20	1,26
UEKDD1-2 25-V E	81	90	187	187	165 x 165	22	1,5	IP 30	IP 20	1,41

included:

1 x **UGD1-2-V 2** rubber seal, quadrangular (page C47)

2 x **UDBS 40-80** claw for plastic dummy cover (page C16)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

CARTRIDGE INSTALLATION UNIT ANGULAR

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.

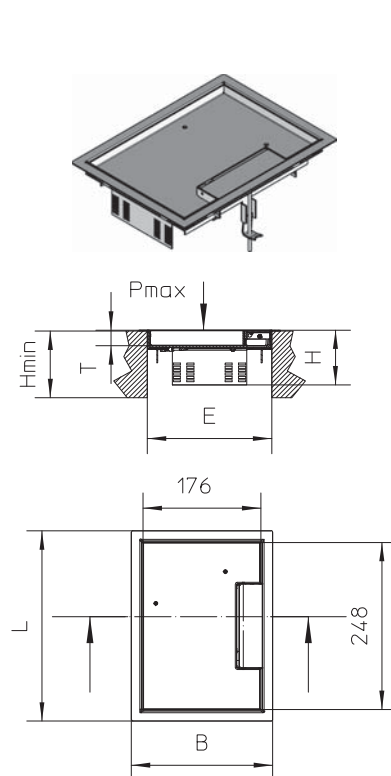
For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	G kg
UEKDD2 15-V E	71	90	211	284	261 x 186	12	1,5	IP 30	IP 20	1,71
UEKDD2 25-V E	81	100	211	284	261 x 186	22	1,5	IP 30	IP 20	2,50

included:

1 x **UGD2-V 2** rubber seal, quadrangular (page C32)

2 x **UDBS 40-80** claw for plastic dummy cover (page C16)



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.

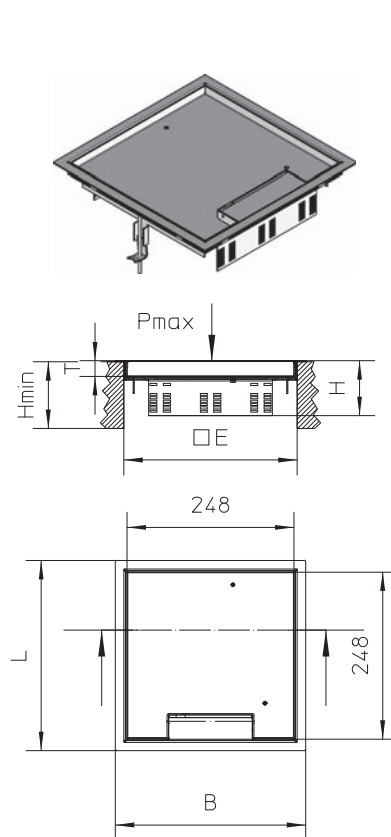
For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	G kg
UEKDD 15-V E	71	90	283	283	261 x 261	12	2	IP 30	IP 20	1,60
UEKDD 25-V E	81	100	283	283	261 x 261	22	2	IP 30	IP 20	2,80

included:

1 x **UGD-V 2** rubber seal, quadrangular (page C32)

2 x **UDBS 40-80** claw for plastic dummy cover (page C16)

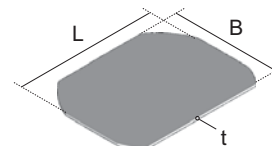


INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNITS ACCESSORIES

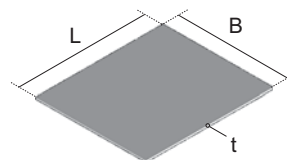
UEKD R cover inlay, hinged cover, round

	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



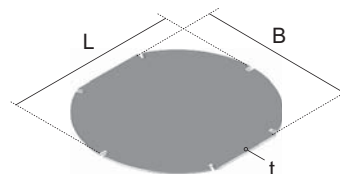
UEKD V cover inlay, hinged cover, quadrangular

	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



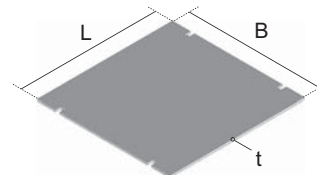
UEBD R cover inlay, dummy cover, round

	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

	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

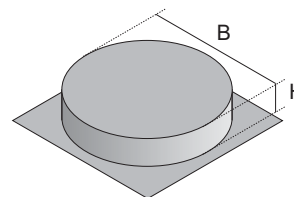


USK R shuttering round

Shuttering made of plastic material for generating an installation opening for round installation units in raised floors.

For assembly instructions, see the chapter assembly.

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



optional:

UEKD2 R installation unit - hinged cover double, round (page C05)

UEKD3 R installation unit - hinged cover triple, round (page C05)

INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNITS ACCESSORIES

USK V shuttering, quadrangular

Shuttering made of plastic material for generating an installation opening for square installation units in raised floors.

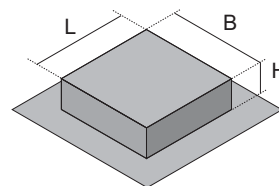
For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	G kg
PP				
USK-V2	52	266	186	0,17
USK-V	52	266	266	0,19

optional:

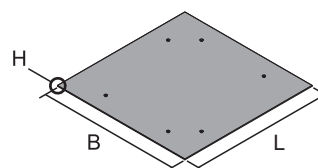
UEKD2 V installation unit - hinged cover double, quadrangular (page C07)

UEKD3 V installation unit - hinged cover triple, quadrangular (page C07)



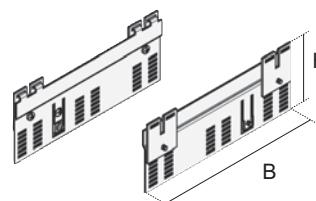
UBP VR Blind cover mounting hole

	H mm	B mm	L mm	G kg
S				
UBP-VR 2S	2	330	330	1,71



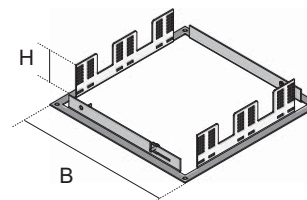
UGEARL registering extension, triple

	H mm	Hmin 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

	H mm	B mm	G kg
S			
UGEA-50S	54,5	258	0,50
UGEA-80S	83,5	258	0,55



ULS R sealing bag

	G kg
PE	
ULS-R 305	0,01



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

	K mm	unit	G kg
S			
UDKS-R 4	30 - 50	4	0,04

optional:

UEKD2 R installation unit - hinged cover double, round (page C05)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNITS ACCESSORIES

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

S	K mm	unit	G kg
UDKS-R 6	30 - 50	6	0,05

optional:

UEKD3 R installation unit - hinged cover triple, round (page C05)



UDKS V 4 hollow space floor claws for hinged cover, quadrangular

S	K mm	unit	G kg
UDKS-V 4	30 - 45	4	0,04

optional:

UEKD2 V installation unit - hinged cover double, quadrangular (page C07)

UEKD3 V installation unit - hinged cover triple, quadrangular (page C07)



UDBS R 4 hollow space floor claw for Dummy cover, round

S	K mm	unit	G kg
UDBS-R 4	30 - 50	4	0,04

optional:

UEBD2 R installation unit - dummy cover double, round (page C04)



UDBS R 6 hollow space floor claw for Dummy cover, round

S	K mm	unit	G kg
UDBS-R 6	30 - 50	6	0,05

optional:

UEBD3 R installation unit - dummy cover triple, round (page C04)



UDBS V 4 hollow space floor claw for Dummy cover, quadrangular

S	K mm	unit	G kg
UDBS-V 4	30 - 45	4	0,04

optional:

UEBD2 V installation unit - dummy cover - double, quadrangular (page C06)

UEBD3 V installation unit - dummy cover triple, quadrangular (page C06)



UDKSEB claw, screed flush

S	K mm	unit	G kg
UDKSEB	3 - 35	1	0,01

optional:

UEBSMD 122R Assembly cover, round (page A04)

UEBSMD 185V Assembly cover, quadrangular (page A05)

UEBSMD 260R Assembly cover, round (page A04)

UEBSMD 260V Assembly cover, quadrangular (page A05)

UEBSMD 307R Assembly cover, round (page A05)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNITS ACCESSORIES

UDBS 40-80 claw for plastic dummy cover

	L mm	K mm	unit	G kg
S				
UDBS 40-80	100	40 - 95	1	0,02



optional:

UEBD2 R	installation unit - dummy cover double, round	(page C04)
UEBD3 R	installation unit - dummy cover triple, round	(page C04)
UEBD2 V	installation unit - dummy cover - double, quadrangular	(page C06)
UEBD3 V	installation unit - dummy cover triple, quadrangular	(page C06)
UEBDD2 V E	cartridge installation unit dummy cover double, quadrangular	(page C10)
UEBDD V E	Dummy cartridge installation unit, triple, quadrangular	(page C11)
UEKDD1-2 V E	cartridge unit - hinged cover single, quadrangular	(page C11)
UEKDD2 V E	cartridge unit - hinged cover double, quadrangular	(page C12)
UEKDD V E	cartridge unit - hinged cover triple, quadrangular	(page C12)

UDKS 40-80 claw for plastic hinged cover

	L mm	K mm	unit	G kg
S				
UDKS 40-80	80	40 - 85	1	0,02

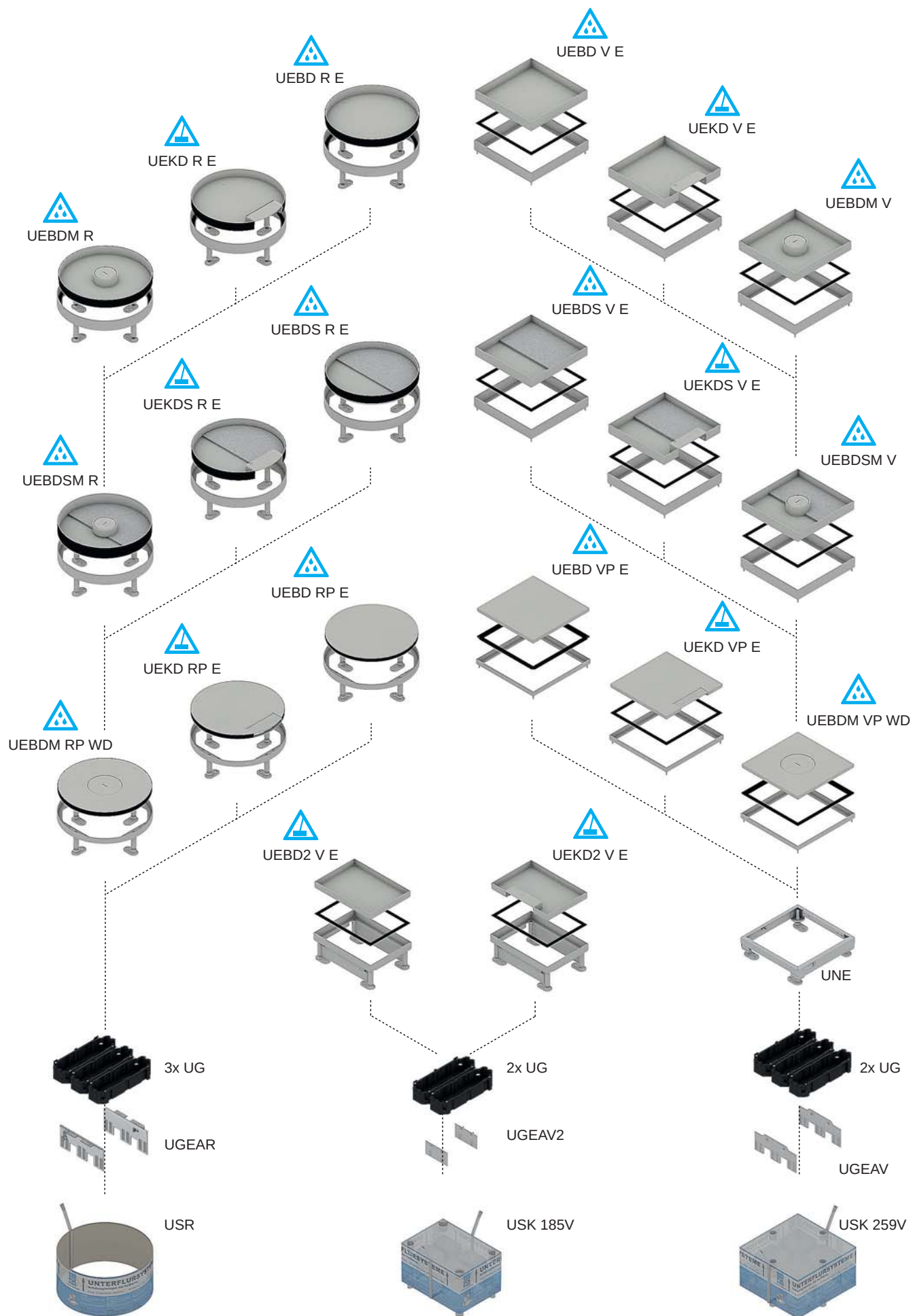


optional:

UEKD2 R	installation unit - hinged cover double, round	(page C05)
UEKD3 R	installation unit - hinged cover triple, round	(page C05)
UEKD2 V	installation unit - hinged cover double, quadrangular	(page C07)
UEKD3 V	installation unit - hinged cover triple, quadrangular	(page C07)

SYSTEM OVERVIEW

INSTALLATION UNIT MADE OF HIGH-GRADE STEEL



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.

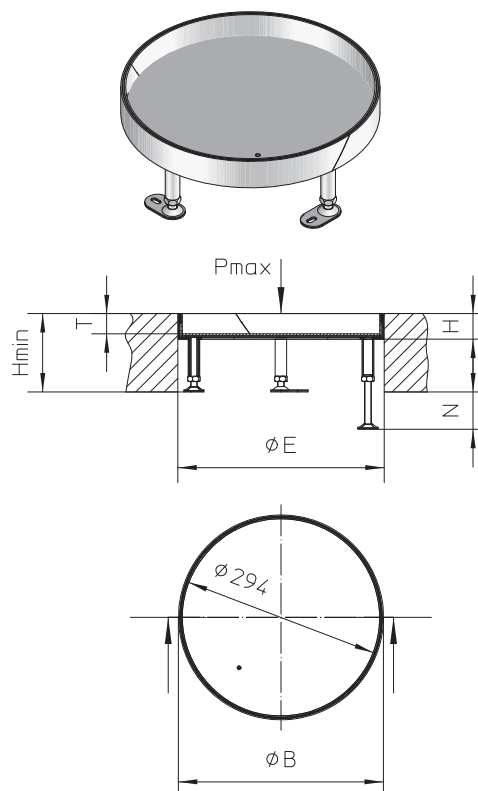
	H mm	Hmin mm	N mm	B mm	E mm	t mm	Pmax kN	IPn	G kg
UEBD 15-R E	21	100	+ 55	305	307	12	2	IP 54	3,14
UEBD 35-R E	38	117	+ 55	305	307	30	2	IP 54	3,67

included:

- 1 x **UGD-R 10-2** rubber seal, round (page C32)
- 1 x **UGEAR-ELS** grounding angle bracket (page C33)
- 1 x **UGDB15-R300 1.8** rubber seal, round (page C32)

optional:

- UEBDE R** cover insert, high-grade steel dummy cartridge, triple (page C30)
- UBDSL** levelling support (page A12, C33)
- UGM SLF** Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

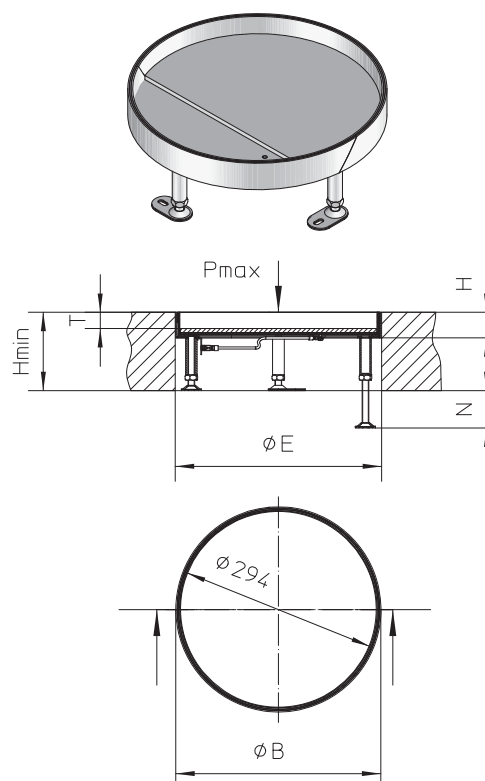
	H mm	Hmin mm	N mm	B mm	E mm	t mm	Pmax kN	IPn	G kg
UEBDS 35-R6 E	38	117	+ 55	305	307	24	20	IP 54	6,93

included:

- 1 x **UGEAR-ELS** grounding angle bracket (page C33)
- 1 x **UGD-R 10-2** rubber seal, round (page C32)
- 1 x **UGDB15-R300 1.8** rubber seal, round (page C32)

optional:

- UBDSL** levelling support (page A12, C33)
- UGM SLF** Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

	H mm	Hmin mm	N mm	B mm	E mm	Pmax kN	IPn	G kg
E G								
UEBD 15-RP E	21	100	+ 55	305	307	4	IP 54	3,20

included:

1 x **UGEAR-ELS** grounding angle bracket (page C33)

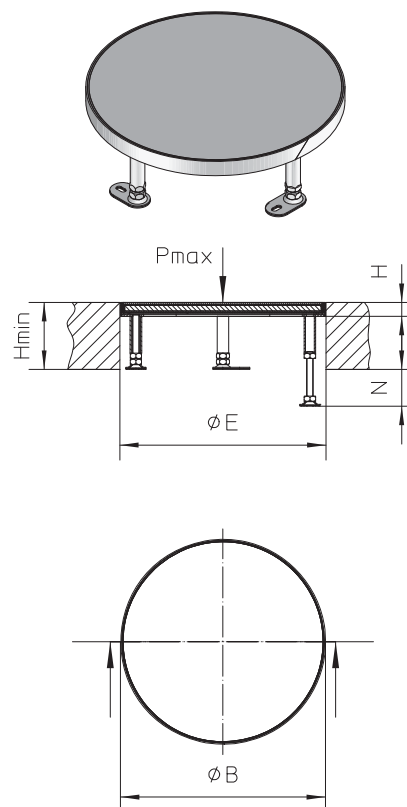
1 x **UGD-R 10-2** rubber seal, round (page C32)

1 x **UGDB15-R300 1.8** rubber seal, round (page C32)

optional:

UBDSL levelling support (page A12, C33)

UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

	H mm	Hmin mm	N mm	B mm	E mm	t mm	Pmax kN	IPn	IPg	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

included:

1 x **UGD-R 10-2** rubber seal, round (page C32)

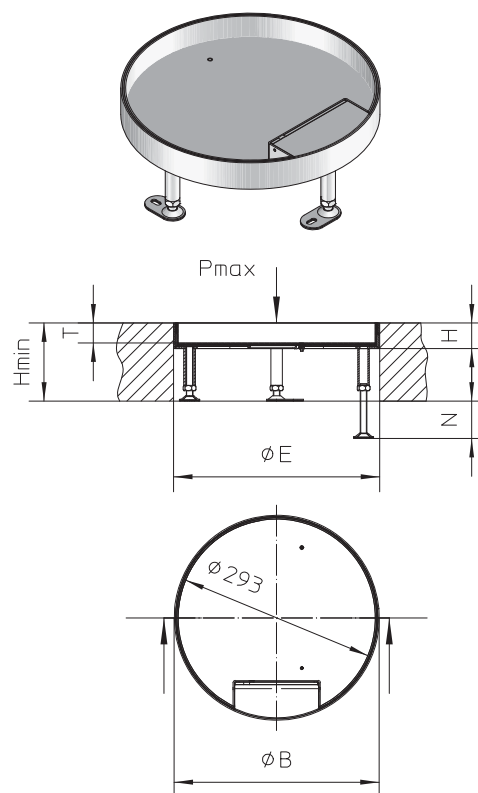
optional:

UEKDE R cover insert, high-grade steel cable outlet cartridge, triple (page C30)

UGEAR set of registering leads, round (page C22)

UBDSL levelling support (page A12, C33)

UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

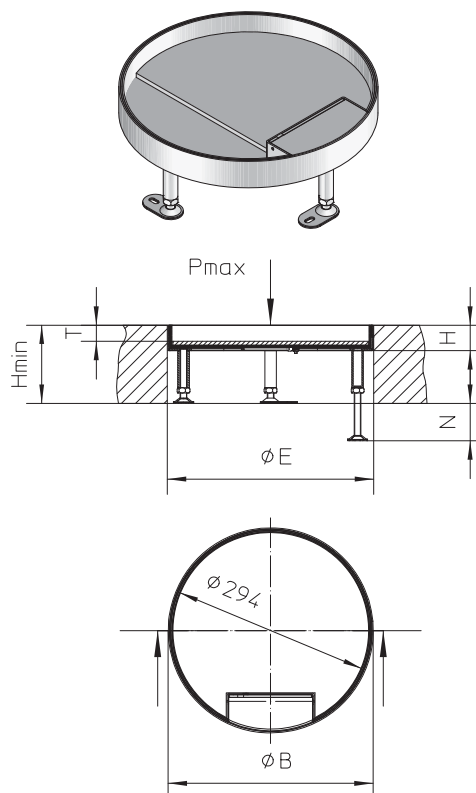
	H	Hmin	N	B	E	t	Pmax	IPn	IPg	G
	mm	mm	mm	mm	mm	mm	kN			kg
E G 										
UEKDS 35-R6 E	38	117	+ 55	305	307	24	10	IP 30	IP 20	6,30

included:

1 x **UGD-R 10-2** rubber seal, round (page C32)

optional:

UGEAR set of registering leads, round (page C22)
UBDSL levelling support (page A12, C33)
UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

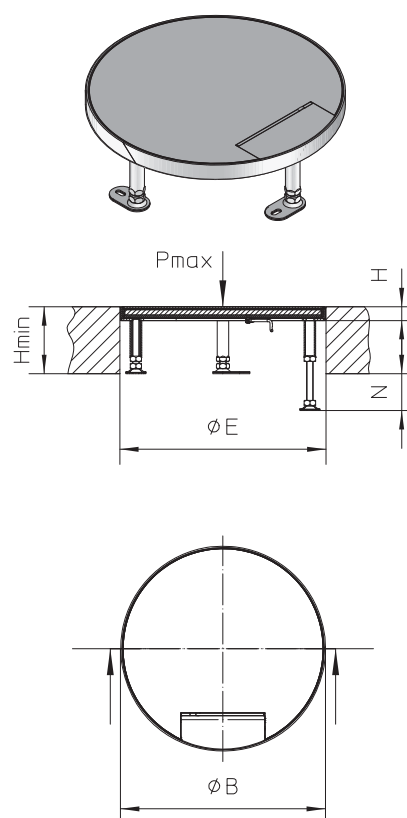
	H	Hmin	N	B	E	Pmax	IPn	IPg	G
	mm	mm	mm	mm	mm	kN			kg
E G 									
UEKD 15-RP E	21	100	+ 55	305	307	4	IP 30	IP 20	3,25

included:

1 x **UGD-R 10-2** rubber seal, round (page C32)

optional:

UGEAR set of registering leads, round (page C22)
UBDSL levelling support (page A12, C33)
UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

	H mm	Hmin mm	N mm	B mm	E mm	t mm	Pmax kN	IPn	IPg	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

included:

1 x UGDB15-R300 1.8 rubber seal, round (page C32)

1 x UGD-R 10-2 rubber seal, round (page C32)

1 x UETD-R-WD tube cover (page C31)

optional:

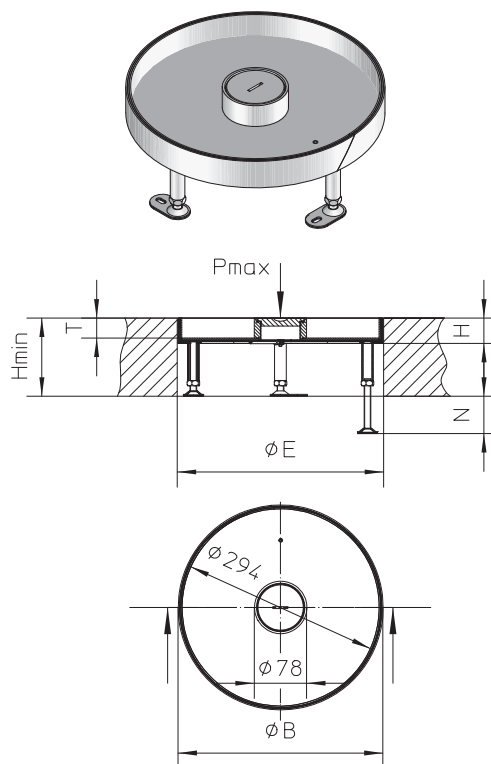
UEBDME R cover insert, tube outlet cartridge made of high-grade (page C30)

UGEAR steel, triple, set of registering leads, round (page C22)

UET tube for wet maintenance (page C31)

UBDSLFL levelling support (page A12, C33)

UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

	H mm	Hmin mm	N mm	B mm	E mm	t mm	Pmax kN	IPn	IPg	G kg
AL E G										
UEBDSM 35-R6-WD	38	117	+ 55	305	307	24	20	IP 54	IP 22	6,79

included:

1 x UETD-R-WD tube cover (page C31)

1 x UGD-R 10-2 rubber seal, round (page C32)

1 x UGDB15-R300 1.8 rubber seal, round (page C32)

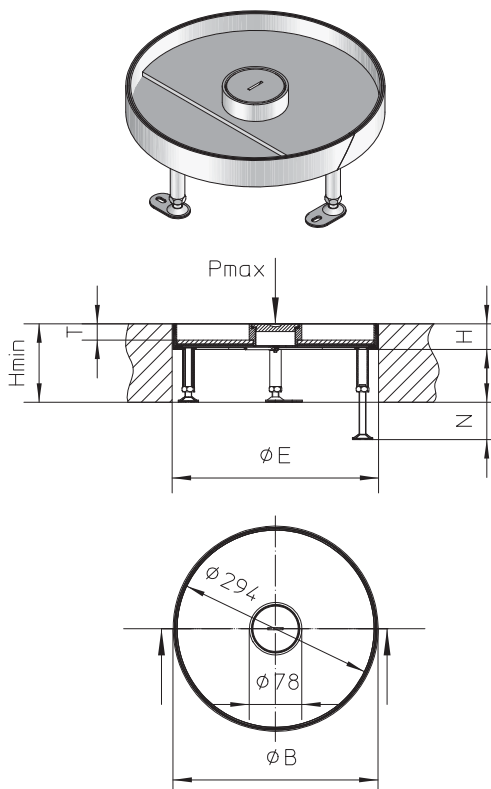
optional:

UGEAR set of registering leads, round (page C22)

UET tube for wet maintenance (page C31)

UBDSLFL levelling support (page A12, C33)

UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

	H mm	Hmin mm	N mm	B mm	E mm	Pmax kN	IPn	IPg	G kg
E G									
UEBDM 15-RP-WD	21	100	+ 55	305	307	4	IP 54	IP 22	3,30

included:

1 x UETD112-R-WD tube cover (page C31)

1 x UGD-R 10-2 rubber seal, round (page C32)

1 x UGDB15-R300 1.8 rubber seal, round (page C32)

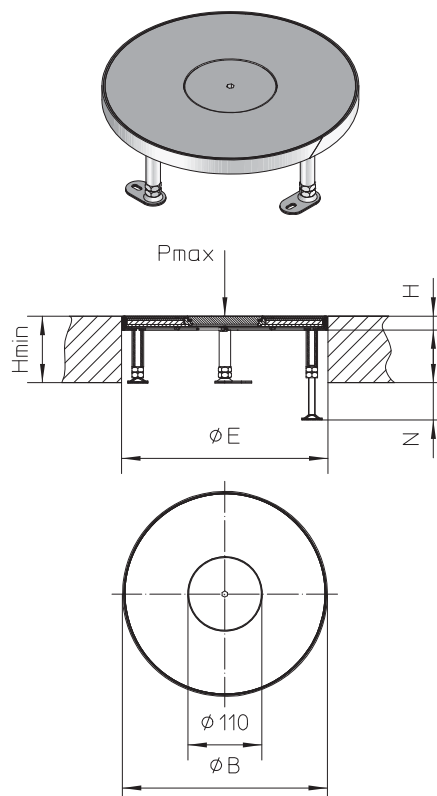
optional:

UET112 tube for wet maintenance (page C31)

UGEAR set of registering leads, round (page C22)

UBDSLFL levelling support (page A12, C33)

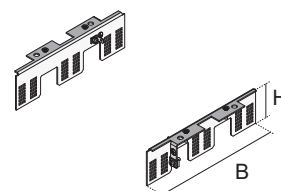
UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



UGEAR set of registering leads, round

To be screwed to a round stainless steel cartridge unit.

	H mm	Hmin mm	B mm	lock-in range mm	G kg
S					
UGEAR-50S	55	65	190	30	0,28
UGEAR-80S	84	95	190	30	0,34



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.

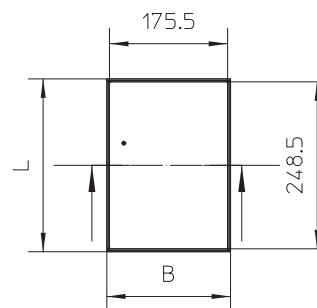
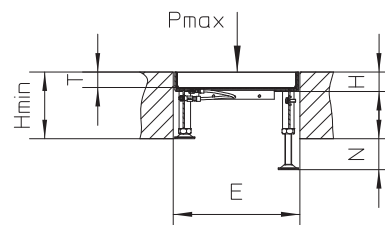
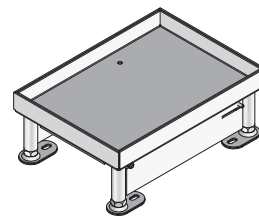
Please mind the technical information in chapter planning.

	H mm	Hmin mm	N mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	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

optional:

UBDSL levelling support (page A12, C33)

UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



UBP V

	H mm	Hmin mm	B mm	L mm	G kg
S					
UBP-V 4S	4	65	258	258	2,60

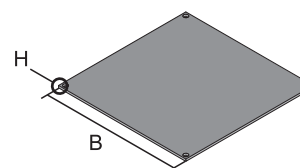
included:

4 x **UKS M4x16E** Phillips screw (page C33)

1 x **UGD3-V 2** rubber seal, quadrangular (page C32)

optional:

UNE levelling unit dummy, triple, quadrangular (page C29)



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-maintenance floors.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	G kg
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

included:

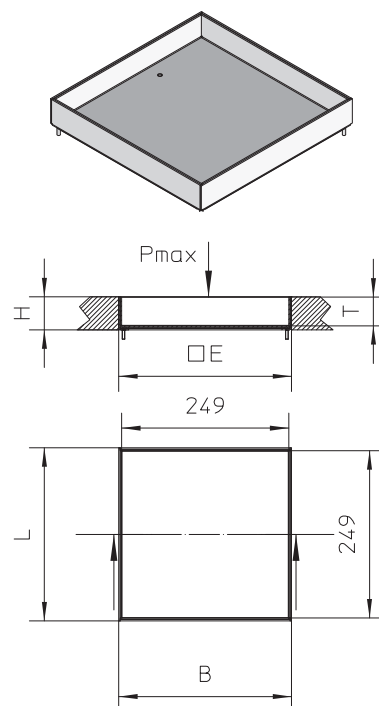
1 x **UGD3-V 2** rubber seal, quadrangular (page C32)

4 x **UKS M4x16E** Phillips screw (page C33)

optional:

UEBDE V cover insert, high-grade steel dummy cartridge, triple (page C30)

UNE levelling unit dummy, triple, quadrangular (page C29)



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.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	G kg
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

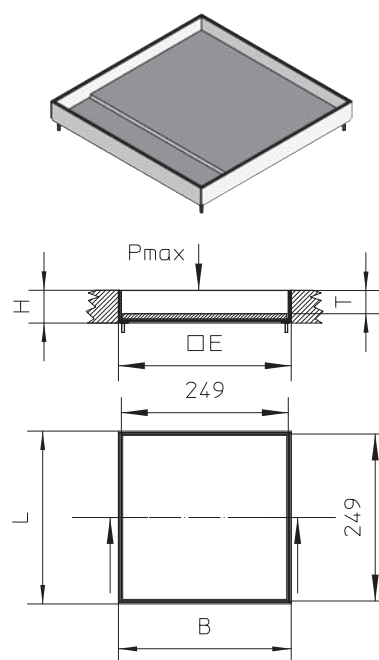
included:

1 x **UGD3-V 2** rubber seal, quadrangular (page C32)

4 x **UKS M4x16E** Phillips screw (page C33)

optional:

UNE levelling unit dummy, triple, quadrangular (page C29)



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.

	H mm	Hmin mm	B mm	L mm	E mm	Pmax kN	IPn	G kg
E G								
UEBD 15-VP E	19	85	258	258	261 x 261	4	IP 54	3,42

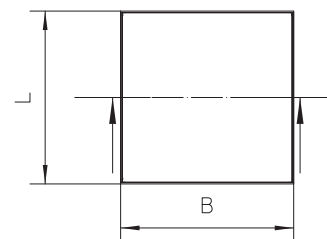
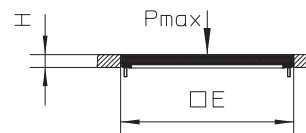
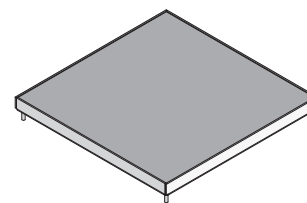
included:

1 x **UGD3-V 2** rubber seal, quadrangular (page C32)

1 x **UKS M4x16E** Phillips screw (page C33)

optional:

UNE levelling unit dummy, triple, quadrangular (page C29)



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.

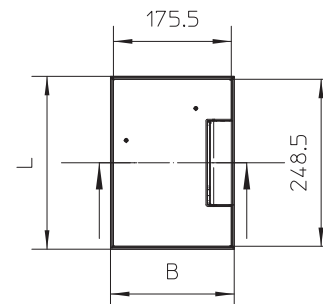
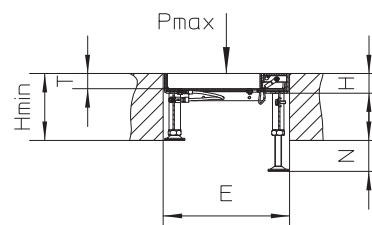
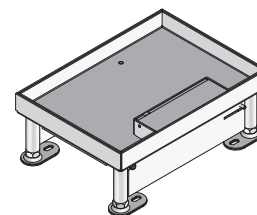
	H mm	Hmin mm	N mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	G kg
E											
UEKD2 15-V E	19	90	+ 45	258	184	261 x 186	12	1,5	IP 30	IP 20	2,40
UEKD2 25-V E	29	100	+ 45	258	184	261 x 186	22	1,5	IP 30	IP 20	2,60

optional:

UGEAV2 set of registering leads, quadrangular (page C28)

UBDSL F levelling support (page A12, C33)

UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



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.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	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

included:

4 x **UKS M4x16E** Phillips screw (page C33)

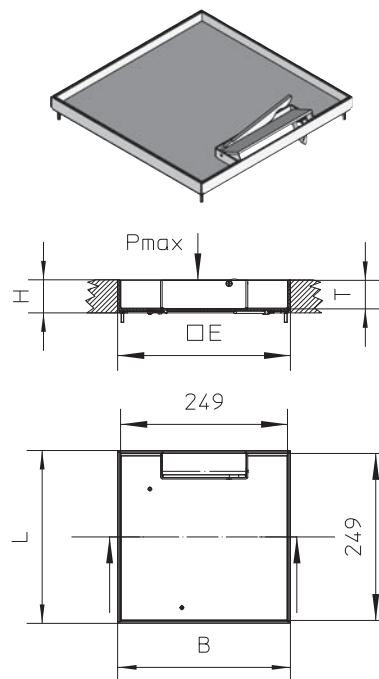
1 x **UGD-V 2** rubber seal, quadrangular (page C32)

optional:

UEKDE V cover insert, high-grade steel cable outlet cartridge, triple (page C30)

UNE levelling unit dummy, triple, quadrangular (page C29)

UGEAV set of registering leads, quadrangular (page C29)



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.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	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

included:

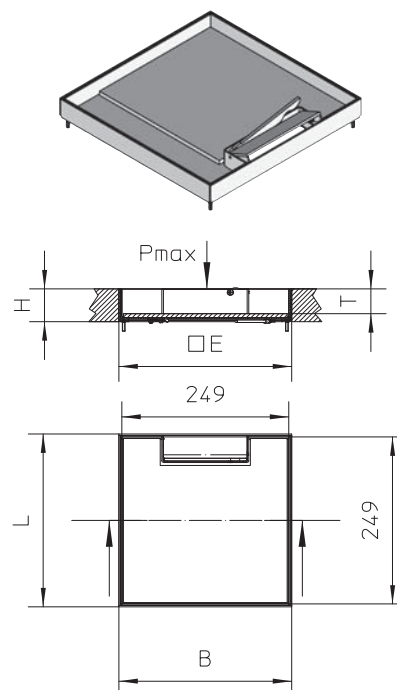
4 x **UKS M4x16E** Phillips screw (page C33)

1 x **UGD-V 2** rubber seal, quadrangular (page C32)

optional:

UNE levelling unit dummy, triple, quadrangular (page C29)

UGEAV set of registering leads, quadrangular (page C29)



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.

	H mm	Hmin mm	B mm	L mm	E mm	Pmax kN	IPn	IPg	G kg
E G									
UEKD 15-VP E	19	85	258	258	261 x 261	4	IP 30	IP 20	3,38

included:

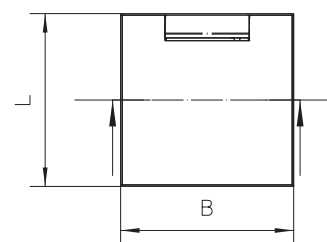
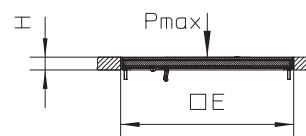
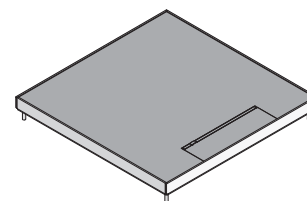
1 x **UGD-V 2** rubber seal, quadrangular (page C32)

1 x **UKS M4x16E** Phillips screw (page C33)

optional:

UNE levelling unit dummy, triple, quadrangular (page C29)

UGEAV set of registering leads, quadrangular (page C29)



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.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	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

included:

1 x **UGD3-V 2** rubber seal, quadrangular (page C32)

4 x **UKS M4x16E** Phillips screw (page C33)

1 x **UETD-R-WD** tube cover (page C31)

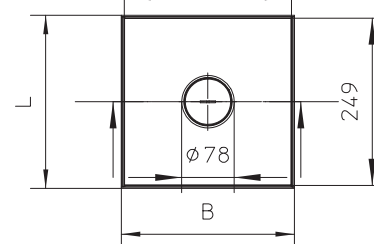
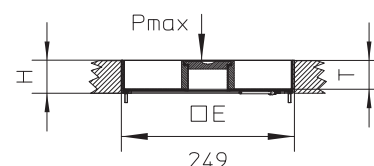
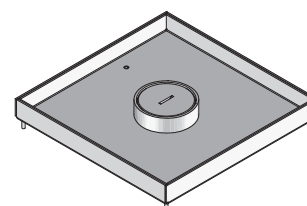
optional:

UEBDME V cover insert, tube outlet cartridge made of high-grade (page C30)

UET steel, triple tube for wet maintenance (page C31)

UNE levelling unit dummy, triple, quadrangular (page C29)

UGEAV set of registering leads, quadrangular (page C29)



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.

	H mm	Hmin mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	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

included:

1 x **UGD3-V 2** rubber seal, quadrangular (page C32)

4 x **UKS M4x16E** Phillips screw (page C33)

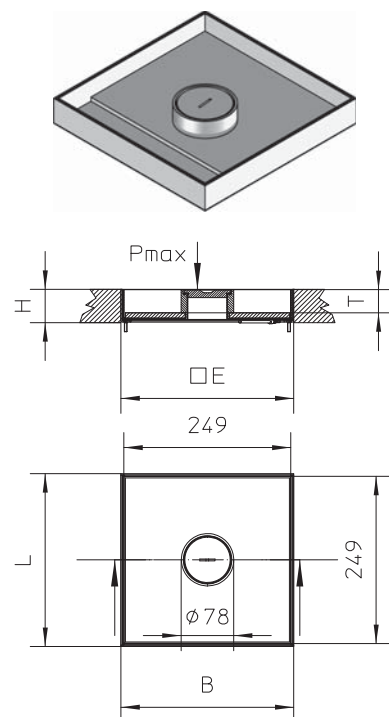
1 x **UETD-R-WD** tube cover (page C31)

optional:

UET tube for wet maintenance (page C31)

UNE levelling unit dummy, triple, quadrangular (page C29)

UGEAV set of registering leads, quadrangular (page C29)



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.

	H mm	Hmin mm	B mm	L mm	E mm	Pmax kN	IPn	IPg	G kg
E G									
UEBDM 15-VP-WD	19	85	258	258	261 x 261	4	IP 54	IP 22	3,39

included:

1 x **UETD112-R-WD** tube cover (page C31)

1 x **UGD3-V 2** rubber seal, quadrangular (page C32)

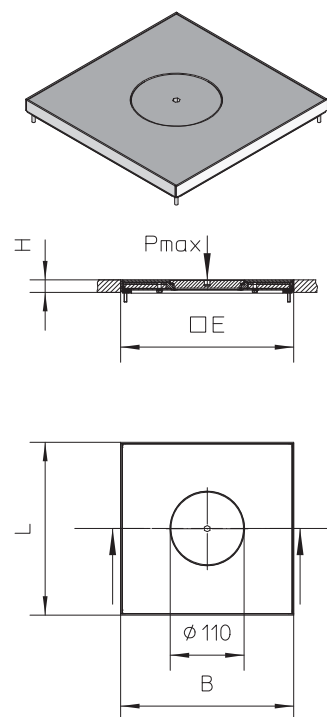
1 x **UKS M4x16E** Phillips screw (page C33)

optional:

UET112 tube for wet maintenance (page C31)

UNE levelling unit dummy, triple, quadrangular (page C29)

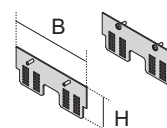
UGEAV set of registering leads, quadrangular (page C29)



UGEAV2 set of registering leads, quadrangular

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

	H mm	Hmin mm	B mm	lock-in range mm	G kg
S					
UGEAV2 50S	55	65	131	30	0,13



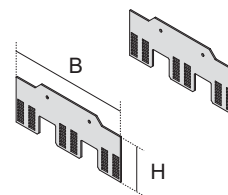
INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNIT MADE OF HIGH-GRADE STEEL CARTRIDGE UNIT ANGULAR

UGEAV set of registering leads, quadrangular

To be screwed to a levelling unit UNE.

	H mm	Hmin mm	B mm	lock-in range mm	G kg
S					
UGEAV-50S	50	65	186	30	0,24
UGEAV-80S	80	95	186	30	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.

	Hmin mm	N mm	B mm	L mm	E mm	Pmax 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

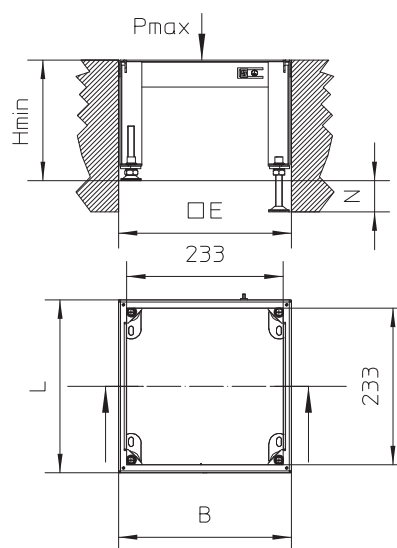
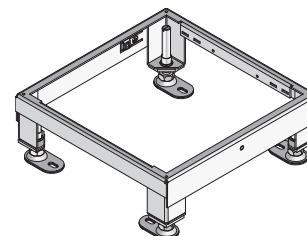
optional:

UGEAV set of registering leads, quadrangular (page C29)

UGE VE Device insert triple, for installation unit high-grade steel (page D25)

quadrangular

UGM SLF Subsonic noise sleeve socket - levelling support (page A12, C33)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNIT MADE OF HIGH-GRADE STEEL ACCESSORIES HIGH-GRADE STEEL CARTRIDGES

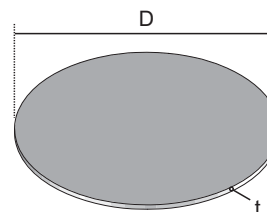
UEBDE R cover insert, high-grade steel dummy cartridge, triple

	Ø mm	t mm	G kg
PVC 			
UEBDE3-R 6	297	6	0,50

optional:

UEBD R E Triple dummy cartridge unit, round, levellable (page C18)

UEBDS R E heavy-duty dummy cartridge unit, triple, round, levellable (page C18)



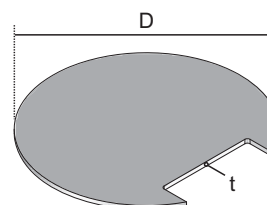
UEKDE R cover insert, high-grade steel cable outlet cartridge, triple

	Ø mm	t mm	G kg
PVC 			
UEKDE3-R 6	297	6	0,50

optional:

UEKD R E cartridge cover, triple, round, levellable (page C19)

UEKDS R E heavy-duty cable outlet cartridge, triple, round, levellable (page C20)



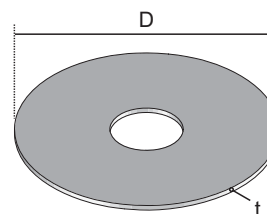
UEBDME R cover insert, tube outlet cartridge made of high-grade steel, triple

	Ø mm	t mm	G kg
PVC 			
UEBDME3-R 6	297	6	0,50

optional:

UEBDM R Tube cartridge unit, triple, round, levellable (page C21)

UEBDMS R heavy-duty tube-cartridge unit triple, round, levellable (page C21)



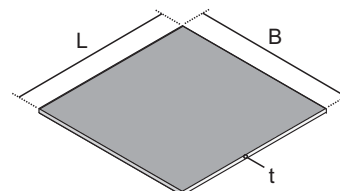
UEBDE V cover insert, high-grade steel dummy cartridge, triple

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

optional:

UEBD V E triple dummy cartridge unit, quadrangular (page C24)

UEBDS V E heavy-duty dummy cartridge unit, triple, quadrangular (page C24)



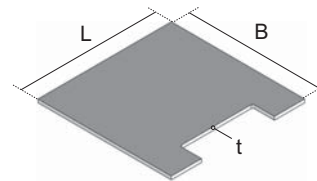
UEKDE V cover insert, high-grade steel cable outlet cartridge, triple

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

optional:

UEKD V E cartridge unit - hinged cover triple, quadrangular (page C26)

UEKDS V E heavy-duty cable outlet cartridge, triple, quadrangular (page C26)



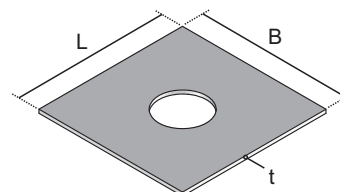
UEBDME V cover insert, tube outlet cartridge made of high-grade steel, triple

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

optional:

UEBDM V tube-cartridge unit triple, quadrangular (page C27)

UEBDMS V heavy-duty tube-cartridge unit triple, quadrangular (page C28)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

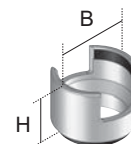
INSTALLATION UNIT MADE OF HIGH-GRADE STEEL  ACCESSORIES HIGH-GRADE STEEL CARTRIDGES

UET tube for wet maintenance

	H mm	B mm	G kg
E			
UET-R-WD E	45	70	0,36
AL			
UET-R-WD	45	70	0,12

optional:

UETD tube cover (page C31)

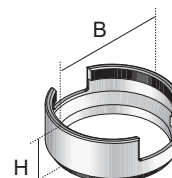


UET112 tube for wet maintenance

	H mm	B mm	G kg
AL			
UET112-R-WD	36	112	0,15

optional:

UETD112 tube cover (page C31)



UETD tube cover

	G kg
E	
UETD-R-WD E	0,28
AL	
UETD-R-WD	0,10

optional:

UET tube for wet maintenance (page C31)

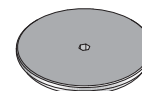


UETD112 tube cover

	G kg
AL	
UETD112-R-WD	0,27

optional:

UET112 tube for wet maintenance (page C31)



UVA GB grounding line

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



UVA GB1 grounding line

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



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNIT MADE OF HIGH-GRADE STEEL  ACCESSORIES HIGH-GRADE STEEL CARTRIDGES

UGDB15 rubber seal, round

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

optional:

UEBD R E Triple dummy cartridge unit, round, levellable (page C18)

UEBDM R Tube cartridge unit, triple, round, levellable (page C21)

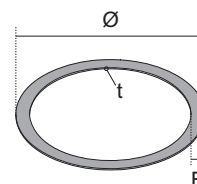
UEBDS R E heavy-duty dummy cartridge unit, triple, round, levellable (page C18)

UEBDSM R heavy-duty tube-cartridge unit triple, round, levellable (page C21)



UGD R rubber seal, round

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



UGD V rubber seal, quadrangular

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

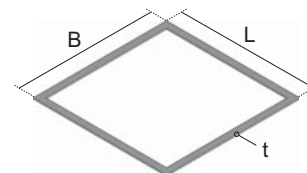
optional:

UEKD V E cartridge unit - hinged cover triple, quadrangular (page C26)

UEBDD V E Dummy cartridge installation unit, triple, quadrangular (page C11)

UEKDS V E heavy-duty cable outlet cartridge, triple, quadrangular (page C26)

UEKDD V E cartridge unit - hinged cover triple, quadrangular (page C12)



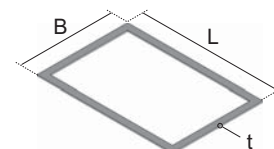
UGD2 V rubber seal, quadrangular

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

optional:

UEKDD2 V E cartridge unit - hinged cover double, quadrangular (page C12)

UEBDD2 V E cartridge installation unit dummy cover double, quadrangular (page C10)



UGD3 V rubber seal, quadrangular

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

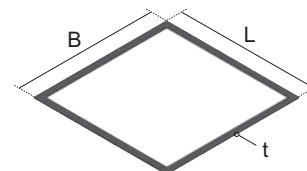
optional:

UEBD V E triple dummy cartridge unit, quadrangular (page C24)

UEBDS V E heavy-duty dummy cartridge unit, triple, quadrangular (page C24)

UEBDM V tube-cartridge unit triple, quadrangular (page C27)

UEBDSM V heavy-duty tube-cartridge unit triple, quadrangular (page C28)

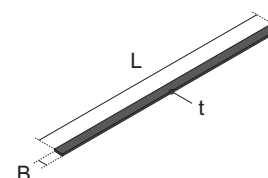


UGD 20 rubber strips

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

optional:

UBKPR side profile (page A17)

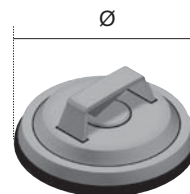


INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

INSTALLATION UNIT MADE OF HIGH-GRADE STEEL  ACCESSORIES HIGH-GRADE STEEL CARTRIDGES

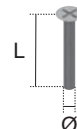
USH 40 siphon

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



UKS Phillips screw

S	Ø mm	L mm	G kg
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 M10x50	10	50	0,04
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



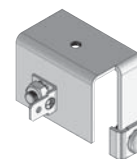
UGEAR ELS grounding angle bracket

S	G kg
UGEAR-ELS	0,02

optional:

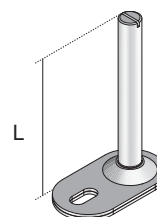
UEBD R E Triple dummy cartridge unit, round, levellable (page C18)

UEBDS R E heavy-duty dummy cartridge unit, triple, round, levellable (page C18)



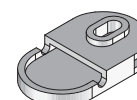
UBDSL F levelling support

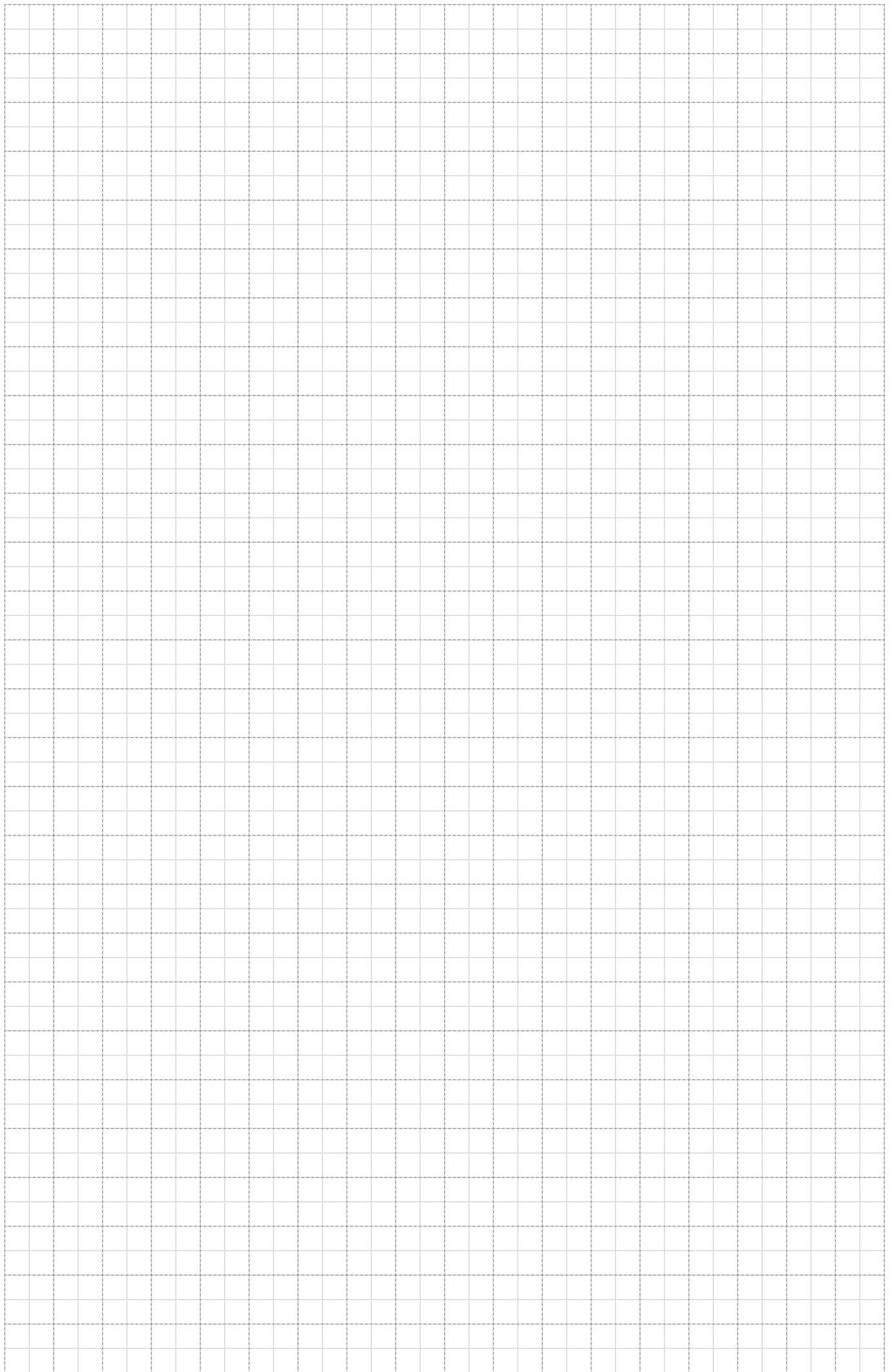
S	L mm	G kg
UBDSL F 60	60	0,07
UBDSL F 80	80	0,07
UBDSL F 150	150	0,09



UGM SLF Subsonic noise sleeve socket - levelling support

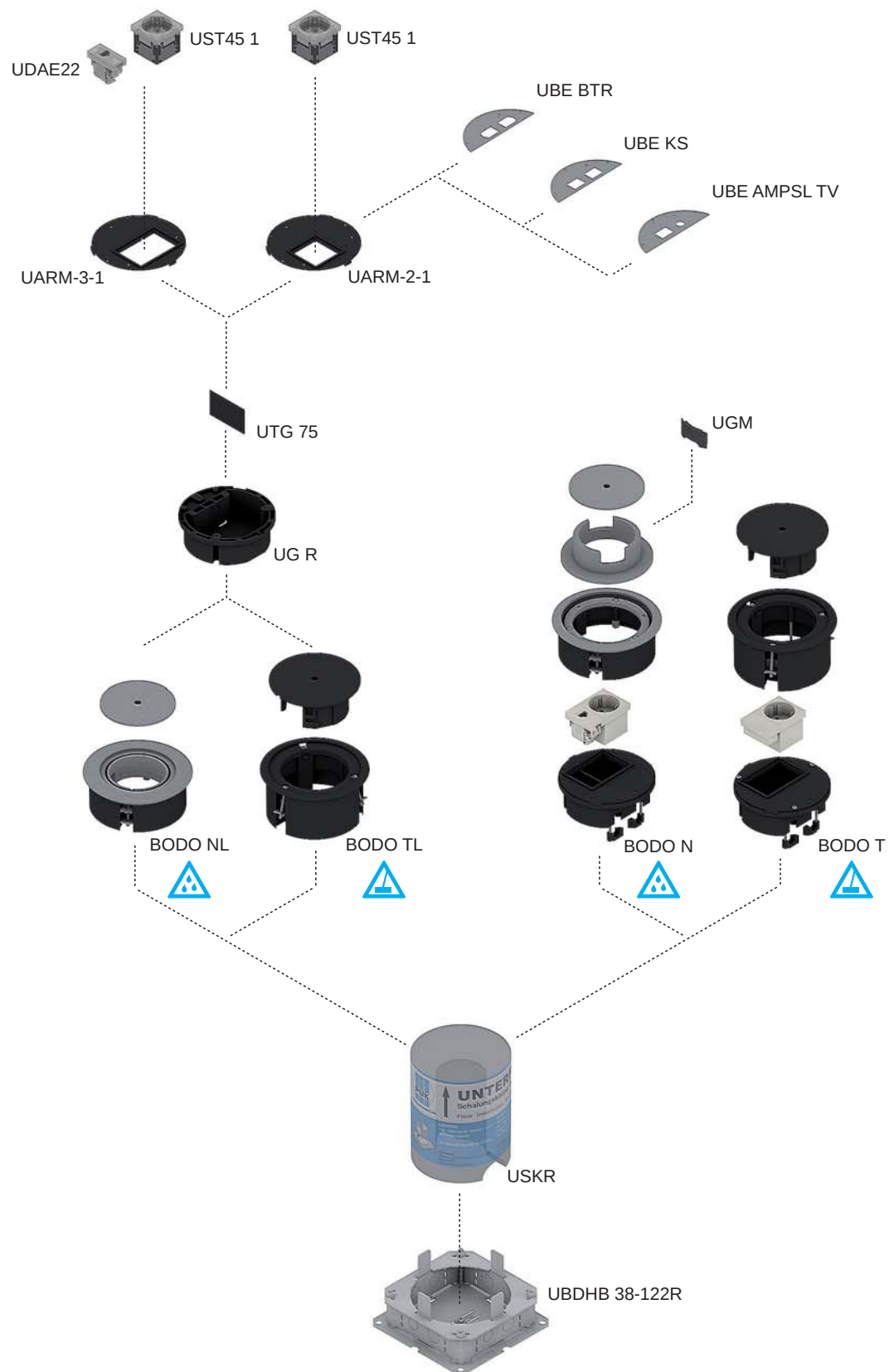
PVC	G kg
UGM-SLF	0,01





SYSTEM OVERVIEW

SINGLE OUTLET BODO, ROUND



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.

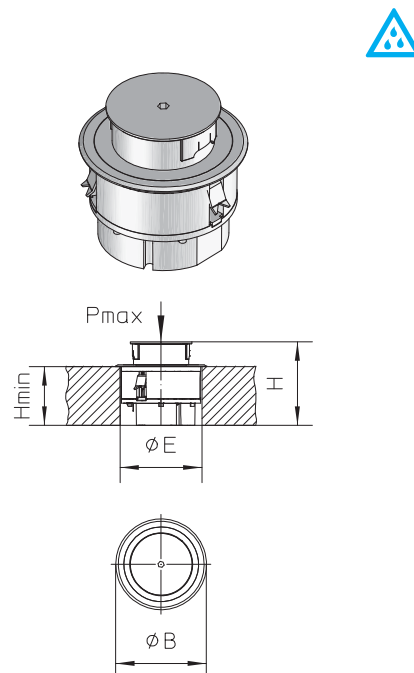
	H mm	Hmin mm	B mm	E mm	Pmax kN	colour	IPn	IPg	G kg
E									
BODO N-E	122	87	133	122	15	Stainless steel	IP 66	IP 43	2,06
AL									
BODO N	122	87	133	122	15	aluminum	IP 66	IP 43	0,74
BODO N-MS	122	87	133	122	15	brass	IP 66	IP 43	0,74
BODO N-SW	122	87	133	122	15	black	IP 66	IP 43	0,74

included:

1 x UET80-R-WD	tube for wet maintenance	(page C39)
1 x UETD80-R-WD	tube cover	(page C39)
1 x UDAE22-CAT6 8	data systems installation device single	(page D32)
1 x UST45-W 1	shockproof socket single	(page D28)
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 C39)
1 x UWZ-IS 8	Allen wrench	(page C39)

optional:

USK R122	shuttering round	(page C39)
UBDHB 122R	Hollow-space floor box, single, round	(page B09)



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.

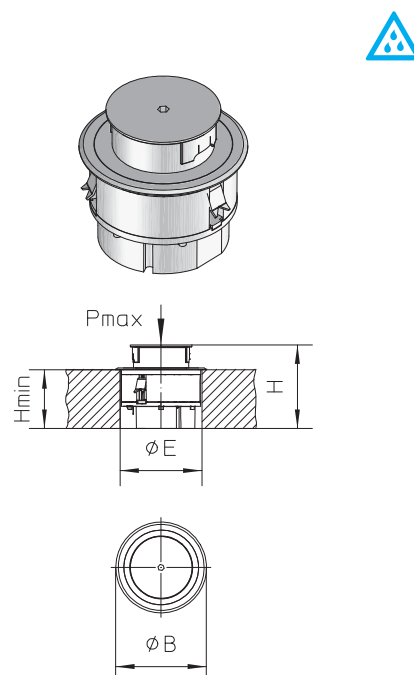
	H mm	Hmin mm	B mm	E mm	Pmax kN	colour	IPn	IPg	G kg
E									
BODO N3-E	122	87	133	122	15	Stainless steel	IP 66	IP 43	2,00
AL									
BODO N3	122	87	133	122	15	aluminum	IP 66	IP 43	0,74
BODO N3-MS	122	87	133	122	15	brass	IP 66	IP 43	0,74
BODO N3-SW	122	87	133	122	15	black	IP 66	IP 43	0,74

included:

1 x UET80-R-WD	tube for wet maintenance	(page C39)
1 x UETD80-R-WD	tube cover	(page C39)
1 x UST45-W 1	shockproof socket single	(page D28)
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 C39)
1 x UDA22-KS 1	Data cover, Keystone	(page D32)
1 x UWZ-IS 8	Allen wrench	(page C39)

optional:

USK R122	shuttering round	(page C39)
UBDHB 122R	Hollow-space floor box, single, round	(page B09)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

SINGLE OUTLET BODO, ROUND

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.

	H mm	Hmin mm	B mm	E mm	Pmax kN	colour	IPn	IPg	G kg
E									
BODO NL-E	83	48	133	122	15	Stainless steel	IP 66	IP 43	1,32
AL									
BODO NL	83	48	133	122	15	aluminum	IP 66	IP 43	0,48

included:

- 1 x **UET80-R-WD** tube for wet maintenance (page C39)
- 1 x **UETD80-R-WD** tube cover (page C39)
- 2 x **UGM1-3** rubber sleeve (page C39)
- 1 x **UWZ-IS 8** Allen wrench (page C39)

	H mm	Hmin mm	B mm	E mm	Pmax kN	colour	IPn	IPg	G kg
AL									
BODO NL-MS	83	48	133	122	15	brass	IP 66	IP 43	0,48

included:

- 1 x **UETD80-R-WD-MS** tube cover (page C39)
- 1 x **UET80-R-WD-MS** tube for wet maintenance (page C39)
- 2 x **UGM1-3** rubber sleeve (page C39)
- 1 x **UWZ-IS 8** Allen wrench (page C39)

	H mm	Hmin mm	B mm	E mm	Pmax kN	colour	IPn	IPg	G kg
AL									
BODO NL-SW	83	48	133	122	15	black	IP 66	IP 43	0,48

included:

- 1 x **UETD80-R-WD-SW** tube cover (page C39)
- 1 x **UET80-R-WD-SW** tube for wet maintenance (page C39)
- 2 x **UGM1-3** rubber sleeve (page C39)
- 1 x **UWZ-IS 8** Allen wrench (page C39)

optional:

- UG R** device installation cup, round (page D04)
- UBDHB 122R** Hollow-space floor box, single, round (page B09)
- USK R122** shuttering round (page C39)

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.

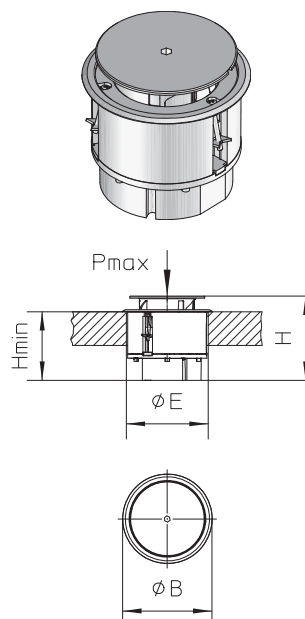
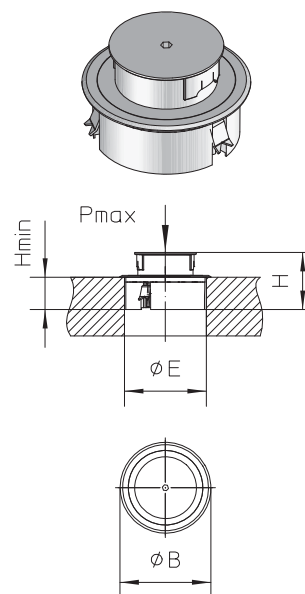
	H mm	Hmin mm	B mm	E mm	Pmax kN	colour	IPn	IPg	G kg
ABS									
BODO T-G	126	102	133	122	1,5	RAL 7011	IP 30	IP 20	0,40
BODO T-S	126	102	133	122	1,5	RAL 9011	IP 30	IP 20	0,40

included:

- 1 x **UAA-B 22** cover (page D33)
- 1 x **UST45-W 1** shockproof socket single (page D28)
- 1 x **UARM-3-1 118** Cover plate for 3x UDAE22 (page D04)
- 1 x **UG-R** device installation cup, round (page D04)

optional:

- USK R122** shuttering round (page C39)
- UBDHB 122R** Hollow-space floor box, single, round (page B09)
- UWZ IS** Allen wrench (page C39)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

SINGLE OUTLET BODO, ROUND

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

Round plastic single outlet with a floor cover protection frame for rooms with dry-maintenance floors.

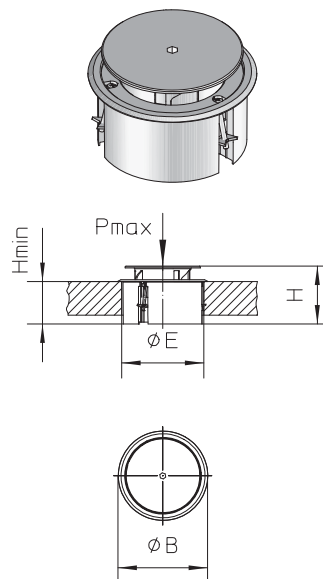
Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	E mm	Pmax kN	colour	IPn	IPg	G kg
ABS									
BODO TL-G	87	63	133	122	1,5	RAL 7011	IP 30	IP 20	0,20
BODO TL-S	87	63	133	122	1,5	RAL 9011	IP 30	IP 20	0,20

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 C39)
UBDHB 122R	Hollow-space floor box, single, round	(page B09)
UWZ IS	Allen wrench	(page C39)

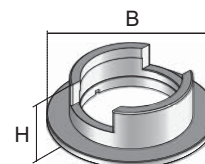


INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

SINGLE OUTLET BODO, ROUND ACCESSORIES

UET80 tube for wet maintenance

	H mm	B mm	colour	G kg
AL				
UET80-R-WD	34,5	112	aluminum	0,13
UET80-R-WD-MS	34,5	112	brass	0,13
UET80-R-WD-SW	34,5	112	black	0,13

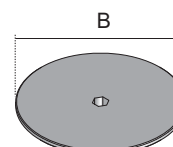


optional:

UETD80 tube cover (page C39)

UETD80 tube cover

	B mm	colour	G kg
AL			
UETD80-R-WD	92	aluminum	0,10
UETD80-R-WD-MS	92	brass	0,10
UETD80-R-WD-SW	92	black	0,10



optional:

UET80 tube for wet maintenance (page C39)

UWZ IS Allen wrench

	G kg
E	
UWZ-IS 8	0,06



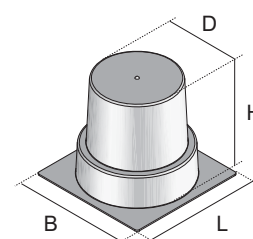
UWZ TS Torx key

	G kg
E	
UWZ-TS 40	0,06



USK R122 shuttering round

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



optional:

BODO T Single-outlet with floor socket outlet, dry maintenance, round (page C37)

BODO TL Single-outlet, dry maintenance, round, empty (page C38)

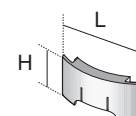
BODO N Single outlet with floor box and data module, wet-maintenance, round (page C36)

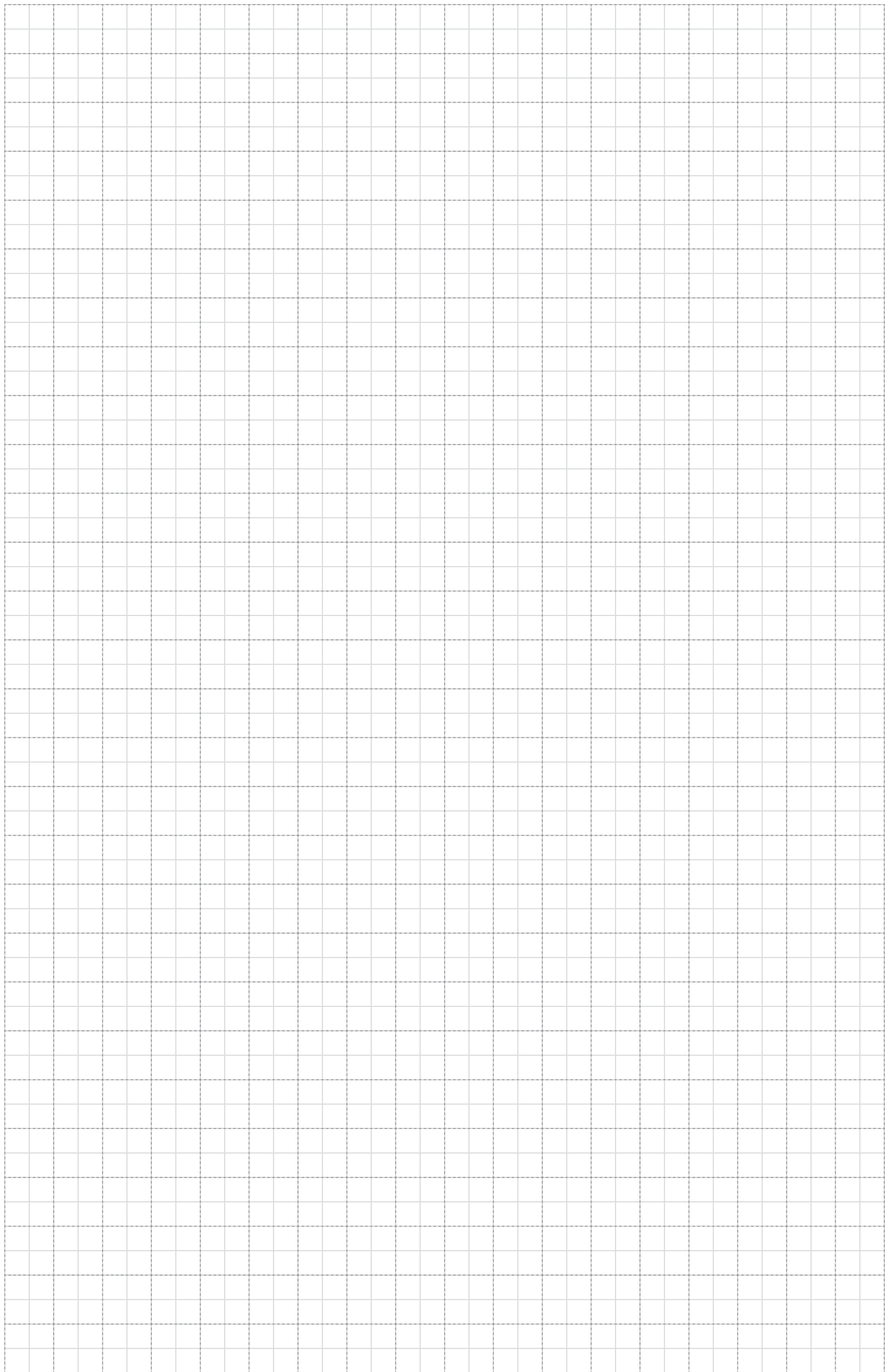
BODO N3 Single-outlet with floor socket outlet, wet maintenance, round (page C36)

BODO NL Single-outlet, wet maintenance, round, empty (page C37)

UGM rubber sleeve

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





SYSTEM OVERVIEW

SINGLE OUTLET, QUADRANGULAR

SYSTEM OVERVIEW

SINGLE OUTLET, QUADRANGULAR



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.

	Hmin mm	N mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	G kg
E G									
UEBD1-1 15-V E	100	+ 40	115	115	115 x 115	12	2	IP 54	2,20

included:

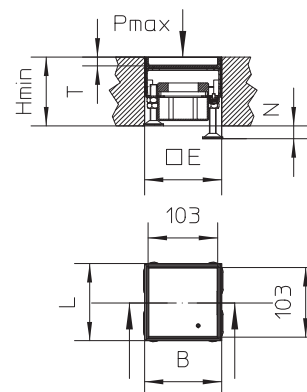
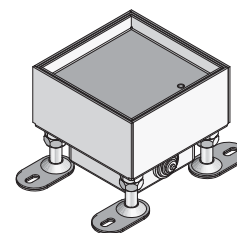
1 x UGD1-1-V 2 rubber seal, quadrangular (page C47)

1 x UEBD1-G45 Body single outlet (page C47)

optional:

UST45 1 shockproof socket single (page D28)

UDAE22 data systems installation device single (page D32)



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.

	Hmin mm	N mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	G kg
E G										
UEKD1-1 15-V E	100	+ 40	115	115	115 x 115	12	2	IP 30	IP 20	1,70

included:

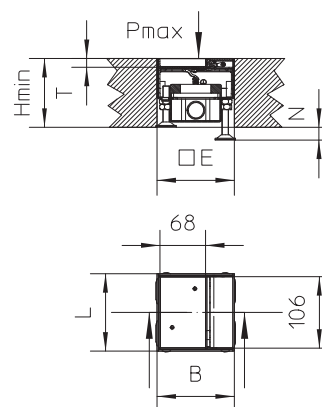
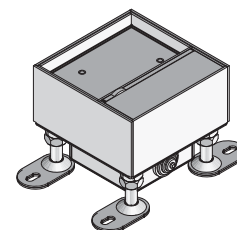
1 x UGD1-1-V 2 rubber seal, quadrangular (page C47)

1 x UEKD1-1-G45 Body single outlet (page C47)

optional:

UST45 1 shockproof socket single (page D28)

UDAE22 data systems installation device single (page D32)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

SINGLE OUTLET, QUADRANGULAR

UEBD1-4 V E Single-outlet cartridge, dummy-type, 2x, quadrangular, levellable

Square dummy single outlet cartridge for direct screed installation made of stainless steel sheet with hem to accommodate 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.

	Hmin mm	N mm	B mm	L mm	E mm	t mm	Pmax kN	IPn		G kg
E G										
UEBD1-4 25-V E	115	+ 60	160	160	160 x 160	22	2	IP 54		2,70

included:

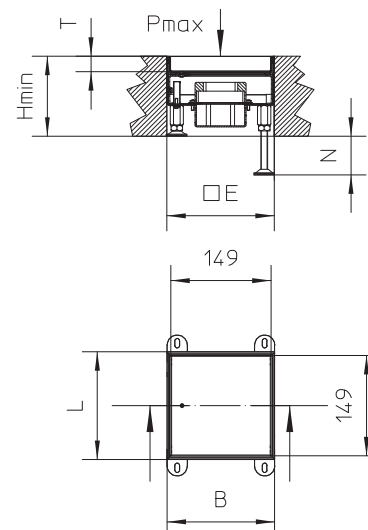
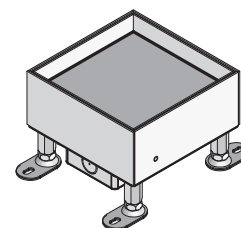
1 x UGD1-2-V 2 rubber seal, quadrangular (page C47)

1 x UEBD1-4-G45 Body single outlet (page C47)

optional:

UST45 1 shockproof socket single (page D28)

UDAE22 data systems installation device single (page D32)



UEKD1-4 V E Single-outlet cable cartridge, duplex, quadrangular, levellable

Square cable single outlet cartridge for direct screed installation, made of stainless steel, with hem, to accommodate two 45x45mm installation devices, for rooms with dry maintenance floor covers.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

	Hmin mm	N mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	G kg
E G										
UEKD1-4 25-V E	115	+ 60	160	160	160 x 160	22	2	IP 30	IP 20	3,40

included:

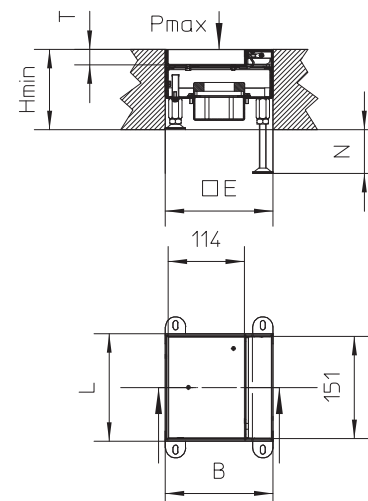
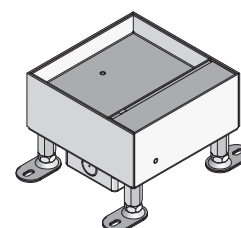
1 x UGD1-2-V 2 rubber seal, quadrangular (page C47)

1 x UEKD1-4-G45 Body single outlet (page C47)

optional:

UST45 1 shockproof socket single (page D28)

UDAE22 data systems installation device single (page D32)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

SINGLE OUTLET, QUADRANGULAR

UEBDSM1-4 V heavy-duty tube single outlet cartridge, quadrangular, levellable

Square heavy-duty tube single outlet cartridge for direct screed installation made of stainless steel sheet with hem to accommodate 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.

	Hmin mm	N mm	B mm	L mm	E mm	Pmax kN	IPn	IPg	G kg
AL E G									
UEBDSM1-4 15-V8-WD	115	+ 60	160	160	160 x 160	20	IP 54	IP 22	4,70

included:

1 x UETD-R-WD tube cover (page C31)

1 x UGD1-2-V 2 rubber seal, quadrangular (page C47)

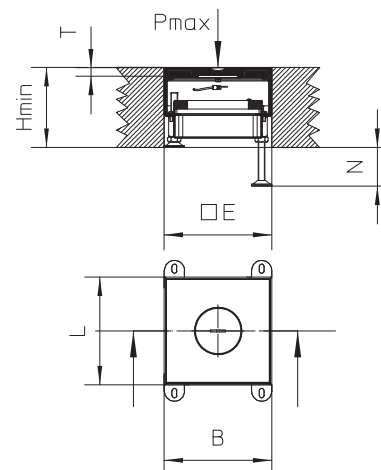
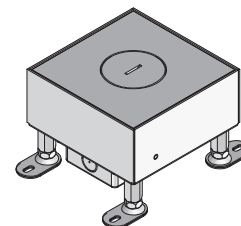
1 x UEKD1-4-G45 Body single outlet (page C47)

optional:

UST45 1 shockproof socket single (page D28)

UDAE22 data systems installation device single (page D32)

UET tube for wet maintenance (page C31)



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.

	H mm	Hmin mm	N mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	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

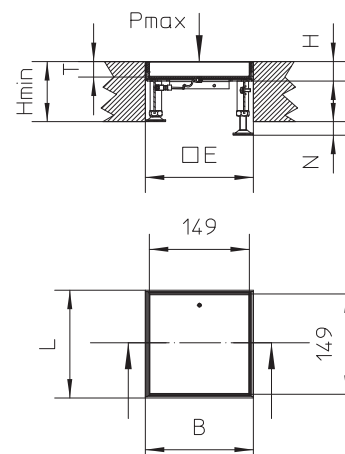
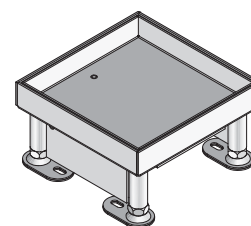
included:

1 x UGD1-2-V 2 rubber seal, quadrangular (page C47)

optional:

UGEAV1-2 set of registering leads, quadrangular (page C45)

UGR1-4 Device cup, round, pre-assembled (page C46)



INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

SINGLE OUTLET, QUADRANGULAR

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

Square cable single outlet cartridge made of stainless steel with hem to accommodate one device cup for rooms with dry maintenance floor covers.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	N mm	B mm	L mm	E mm	t mm	Pmax kN	IPn	IPg	G kg
UEKD1-2 15-V E	19	80	+ 45	160	160	164 x 164	12	2	IP 30	IP 20	1,80
UEKD1-2 25-V E	29	90	+ 45	160	160	164 x 164	22	2	IP 30	IP 20	2,00

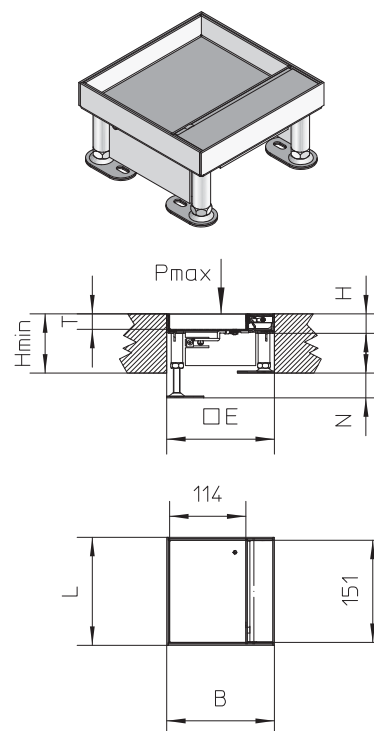
included:

1 x **UGD1-2-V 2** rubber seal, quadrangular (page C47)

optional:

UGEAV1-2 set of registering leads, quadrangular (page C45)

UGR1-4 Device cup, round, pre-assembled (page C46)



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

Square heavy-duty tube single outlet cartridge made of stainless steel sheet with hem to accommodate one installation device for rooms with wet-maintenance floor covers.

Please mind the technical information in chapter planning.

For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	N mm	B mm	L mm	E mm	Pmax kN	IPn	IPg	G kg
UEBDSM1-2 15-V8-WD	19	80	+ 45	160	160	164 x 164	20	IP 54	IP 22	3,30

included:

1 x **UGD1-2-V 2** rubber seal, quadrangular (page C47)

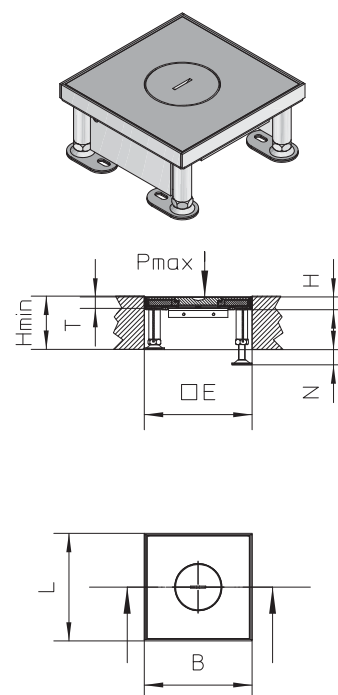
1 x **UETD-R-WD** tube cover (page C31)

optional:

UGEAV1-2 set of registering leads, quadrangular (page C45)

UGR1-4 Device cup, round, pre-assembled (page C46)

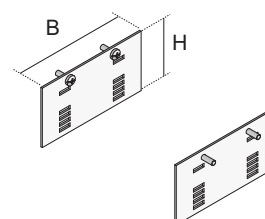
UET tube for wet maintenance (page C31)



UGEAV1-2 set of registering leads, quadrangular

To be screwed to a single outlet.

	H mm	B mm	G kg
UGEAV1-2 50S	59	98	0,13



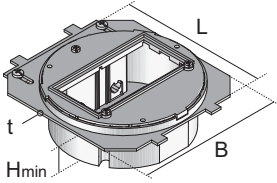
INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

SINGLE OUTLET, QUADRANGULAR

UGR1-4 Device cup, round, pre-assembled

S	Hmin mm	B mm	L mm	t mm	G kg
UGR1-4	70	128	125	2	0,30

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

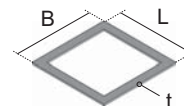


INSTALLATION UNITS FOR SCREED AND HOLLOW FLOORS

SINGLE OUTLET, QUADRANGULAR ACCESSORIES

UGD1-1 V rubber seal, quadrangular

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



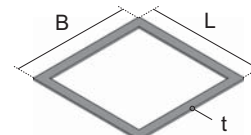
optional:

UEBD1-1 V E Dummy single-outlet cartridge, quadrangular, levellable (page C42)

UEKD1-1 V E Single-outlet cable cartridge, one-piece, quadrangular, levellable (page C42)

UGD1-2 V rubber seal, quadrangular

	B mm	L mm	t mm	G kg
G				
UGD1-2-V 2	155	155	2	0,01



optional:

UEKDD1-2 V E cartridge unit - hinged cover single, quadrangular (page C11)

UEBDD1-2 V E cartridge installation unit - dummy cover, single (page C10)

UEBD1-4 V E Single-outlet cartridge, dummy-type, 2x, quadrangular, levellable (page C43)

UEKD1-4 V E Single-outlet cable cartridge, duplex, quadrangular, levellable (page C43)

UEBDSM1-4 V heavy-duty tube single outlet cartridge, quadrangular, levellable (page C44)

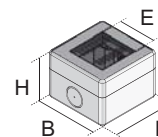
UEBD1-2 V E Dummy single-outlet cartridge, quadrangular, levellable (page C44)

UEKD1-2 V E Single-outlet cable cartridge, quadrangular, levellable (page C45)

UEBDSM1-2 V heavy-duty tube single outlet cartridge, quadrangular, levellable (page C45)

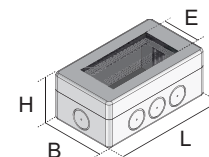
UEBD1 G45 Body single outlet

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



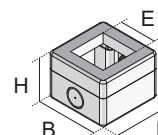
UEBD1-4 G45 Body single outlet

	H mm	B mm	L mm	E mm	colour	G kg
G						
UEBD1-4-G45	63	75,5	120	45 x 80,5	light grey (similar RAL 7035)	0,09



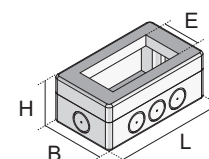
UEKD1-1 G45 Body single outlet

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



UEKD1-4 G45 Body single outlet

	H mm	B mm	L mm	E mm	colour	G kg
G						
UEKD1-4-G45	53	75,5	120	45 x 80,5	light grey (similar RAL 7035)	0,09





DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

DEVICE INSTALLATION CUP AND
DEVICE CARRIER

D04-D11

DATA-DEVICE CARRIERS

D14-D19

DEVICE CARRIER

D22

DEVICE INSERT

D24-D26

POWER ENGINEERING

D28-D29

DATA TECHNOLOGY / MULTIMEDIA

D32-D35

CONNECTOR SYSTEM WAGO

D38-D40

CONNECTOR SYSTEM WIELAND

D42-D44

ACCESSORIES

D45-D46



D

NUMERICAL INDEX

DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

B

BLS tapping screw [D45](#)
BSS Flat head tapping screw [D45](#)

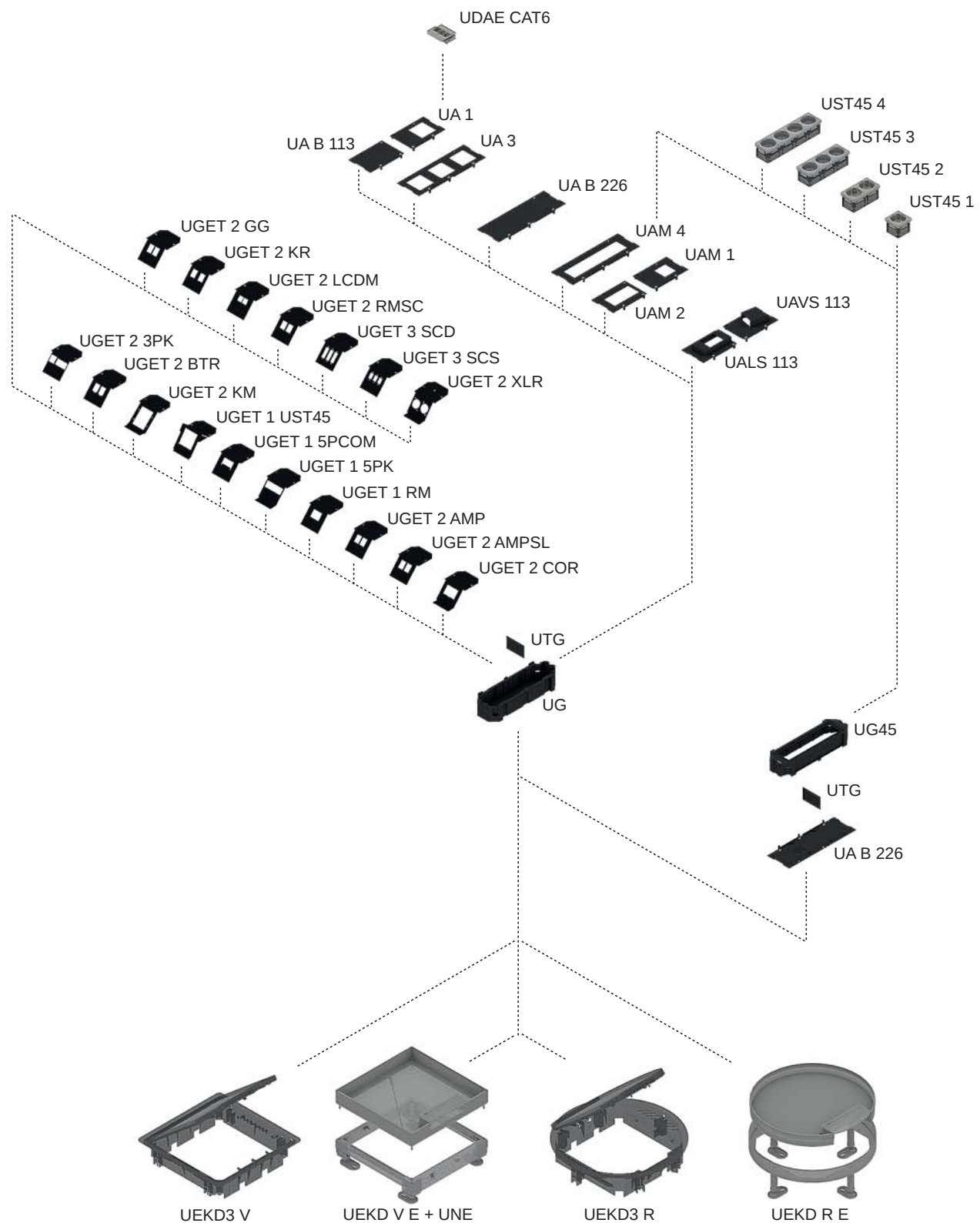
U

UA 1 Cover plate for 1xUDAE [D06](#)
UA 3 Cover plate for 3xUDAE [D06](#)
UA B 113 Cover plate, blind [D07](#)
UA B 226 Cover plate, blind [D11](#)
UAA B Covering, blind [D07](#)
UAA B 22 cover [D33](#)
UAA B 65 cover [D22](#)
UALS 113 Cover plate for 2x automatic line protection [D07](#)
UAM 1 Cover plate for 1xUST45 [D07](#)
UAM 2 Cover plate for 2xUST45 [D06](#)
UAM 4 Cover plate for 4xUST45 [D06](#)
UANT45 TV/ radio/ SAT-single socket [D34](#)
UAPAM Cable outlet [D33](#)
UARM-2-1 Cover plate for 2x UDAE22 [D04](#)
UARM-3-1 Cover plate for 3x UDAE22 [D04](#)
UAVS 113 Cover plate snap-in [D11](#)
UBE AMPSL TV Adapter board data technology [D04](#)
UBE BTR Adapter board data technology [D04](#)
UBE KS Adapter board data technology [D05](#)
UBS label strip [D45](#)
UDA22-KS Data cover, Keystone [D32](#)
UDA45-BTR Data cover, BTR [D34](#)
UDA45-COR Data cover, Corning [D34](#)
UDA45-KR Data cover, KRONE [D34](#)
UDA45-KS Data cover, Keystone [D34](#)
UDA45-RM Data cover, Reichle & De-Massari [D35](#)
UDA45-SYM Data cover, Systimax [D35](#)
UDAE data systems installation device [D35](#)
UDAE CAT6 data systems installation device [D35](#)
UDAE22 data systems installation device single [D32](#)
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UDEP 3PK Adapter board module plug systems [D19](#)
UDEP 5PCOM Adapter board module plug systems [D19](#)
UDEP 5PK Adapter board module plug systems [D19](#)
UDEP AMP Adapter board data technology [D16](#)
UDEP AMP SL Adapter board data technology [D16](#)
UDEP B Adapter board blind [D18](#)
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UDEP COR Adapter board data technology [D16](#)
UDEP DSUB Adapter board audio/video technology [D15](#)
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UDEP RMSC 2 Adapter board data technology [D17](#)
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UDEP SCD Adapter board light wave technology [D15](#)
UDEP SCS Adapter board light wave technology [D15](#)
UDEP SYS 2 Adapter board data technology [D17](#)
UDEP XLR Adapter board audio technology [D15](#)
UDM22 HDMI Media module 22,5 x 45 mm [D32](#)
UDM22 RCA Media module 22,5 x 45 mm [D32](#)
UDM22 TV Media module 22,5 x 45 mm [D32](#)
UDM22 USB Media module 22,5 x 45 mm [D32](#)
UDM22 VGA Media module 22,5 x 45 mm [D32](#)
UG Device cup, quadrangular [D06](#)
UG R device installation cup, round [D04](#)
UG45 Device cup, quadrangular, open [D11](#)
UG45WA-2 device mounting cup, WAGO [D38](#)
UG45WA-2-1 device mounting cup, WAGO [D38](#)
UG45WA-2-2 device mounting cup, WAGO [D38](#)
UG45WA-3 device mounting cup, WAGO [D38](#)
UG45WA-3-1 device mounting cup, WAGO [D38](#)
UG45WA-4 device mounting cup, WAGO [D38](#)
UG45WI-2 device mounting cup, Wieland [D42](#)
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UGE RK Device insert, triple, for installation unit plastic round [D24](#)
UGE VE Device insert triple, for installation unit high-grade steel quadrangular [D25](#)
UGE VK Device insert, triple, for installation unit plastic quadrangular [D24](#)

UGE VRE End plate for high-grade steel units [D26](#)
UGE VRK End plate for plastic units [D26](#)
UGE A D adaptor for data-device carriers for GB [D46](#)
UGEE 1 UST45 insert board, shockproof socket [D25](#)
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UGET 1 RM Device cup assembly carrier data technology [D09](#)
UGET 1 UST45 Device cup assembly carrier installation devices [D08](#)
UGET 1-5PCOM Device cup assembly carrier plug-in systems [D10](#)
UGET 1-5PK Device cup assembly carrier plug-in systems [D10](#)
UGET 2 AMP Device cup assembly carrier data technology [D09](#)
UGET 2 AMPSL Device cup assembly carrier data technology [D09](#)
UGET 2 BTR Device cup assembly carrier data technology [D08](#)
UGET 2 COR Device cup assembly carrier data technology [D08](#)
UGET 2 GG45 Device cup assembly carrier data technology [D09](#)
UGET 2 KM Device cup assembly carrier audio/video technology [D08](#)
UGET 2 KR Device cup assembly carrier data technology [D09](#)
UGET 2 LCDM Device cup assembly carrier fibre optic technology [D07](#)
UGET 2 RMSC Device cup assembly carrier data technology [D09](#)
UGET 2 XLR Device cup installation carrier audio technology [D08](#)
UGET 2-3PK Device cup assembly carrier plug-in systems [D10](#)
UGET 3 SCD Device cup assembly carrier fibre optic technology [D07](#)
UGET 3 SCS Device cup assembly carrier fibre optic technology [D07](#)
UGET 3-1 device carrier, 3x AMP/ACO [D22](#)
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](#)
UGZ strain relief [D45](#)
UGZ R strain relief [D45](#)
USA45 automatic circuit breaker [D34](#)
USSM overvoltage protection module Class III/ D/ type3 [D33](#)
USSM FM overvoltage protection module [D33](#)
UST45 1 shockproof socket single [D28](#)
UST45 2 shockproof socket, duplex [D28](#)
UST45 3 shockproof socket triple [D28](#)
UST45 4 shockproof socket quadruple [D28](#)
UST45FR 1 Installation socket with earthing pin, single [D29](#)
UST45FR 2 Installation socket with earthing pin, double [D29](#)
UST45FR 3 Installation socket with earthing pin, tripple [D29](#)
UTAE telephone socket [D35](#)
UTG device separation plate [D06](#)
UTG 75 device separation plate [D04](#)
UV distributor box [D39](#)
UVABU connecting line plug - socket, WAGO [D39](#)
UVABUWI connecting line plug - socket, Wieland [D43](#)
UVB-2 distributor block, 2x3 pole [D39](#)
UVB-5 distributor block, 5x3 pole [D39](#)
UVBU-3 socket component [D40](#)
UVBU-5 socket component [D40](#)
UVBUWI-3 socket part, Wieland [D43](#)
UVBUWI-5 socket part, Wieland [D44](#)
UVBWI-2 distributor block [D43](#)
UVBWI-5 distributor block [D43](#)
UVS ST snap-in-piece, plug, Wago [D40](#)
UVST-3 plug component [D39](#)
UVSTWI-3 Plug part, Wieland [D43](#)
UVSWI ST Snap-in-piece, plug, Wieland [D44](#)
UVWI distributor block [D43](#)
UWZ UG mounting lever [D45](#)
UWZ Z underfloor tongs [D45](#)

SYSTEM OVERVIEW

DEVICE INSTALLATION CUP AND DEVICE CARRIER



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

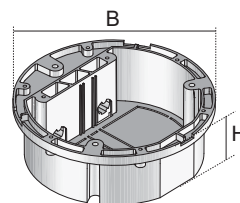
	H mm	B mm	colour	G kg
ABS				
UG-R	39	118	RAL 9011	0,05

included:

2 x **BLS 2.9x32** tapping screw (page D45)
2 x **UGZ-R** strain relief (page D45)

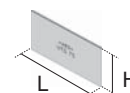
optional:

UTG 75 device separation plate (page D04)



UTG 75 device separation plate

	H mm	L mm	colour	G kg
ABS				
UTG 75	36	75	RAL 9011	0,01

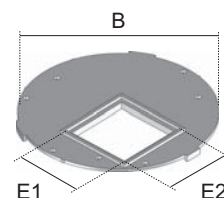


UARM-2-1 Cover plate for 2x UDAE22

	B mm	E1 mm	E2 mm	colour	G kg
ABS					
UARM-2-1 118	114	40,5	40,5	RAL 9011	0,03

optional:

UAA B 22 cover (page D33)
UST45 1 shockproof socket single (page D28)
UDAE22 data systems installation device single (page D32)

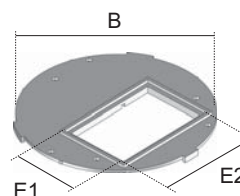


UARM-3-1 Cover plate for 3x UDAE22

	B mm	E1 mm	E2 mm	colour	G kg
ABS					
UARM-3-1 118	114	40,5	63	RAL 9011	0,02

optional:

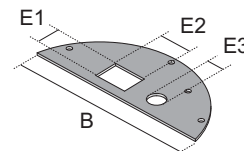
UAA B 22 cover (page D33)
UST45 1 shockproof socket single (page D28)
UDAE22 data systems installation device single (page D32)



UBE AMPSL TV Adapter board data technology

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

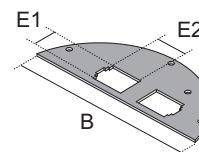
	B mm	E1 mm	E2 mm	E3 mm	G kg
ABS					
UBE-AMPSL-TV	114	20,25	14,78	10,5	0,04



UBE BTR Adapter board data technology

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

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



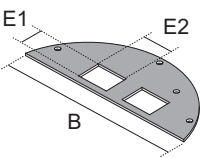
DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

DEVICE INSTALLATION CUP AND DEVICE CARRIER DEVICE MOUNTING CUP, ROUND AND COVER PLATES

UBE KS Adapter board data technology

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

	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 **UG** 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.

	H mm	B mm	L mm	colour	G kg
ABS					
UG	46	74	226	RAL 9011	0,09

included:

4 x **UGZ** strain relief (page D45)

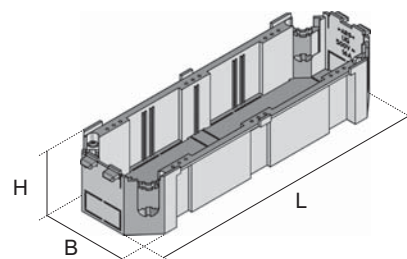
4 x **BLS 2.9x32** tapping screw (page D45)

optional:

UTG device separation plate (page D06)

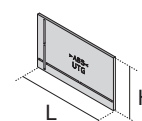
UA B 226 Cover plate, blind (page D11)

UAA B 22 cover (page D33)



UTG device separation plate

	H mm	L mm	colour	G kg
ABS				
UTG	36	59	RAL 9011	0,01

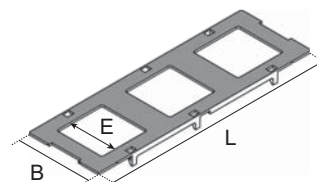


UA 3 Cover plate for 3xUDAE

	B mm	L mm	E mm	colour	G kg
ABS					
UA-3-1 226	74	226	48	RAL 9011	0,03

optional:

UAA B Covering, blind (page D07)

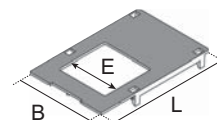


UA 1 Cover plate for 1xUDAE

	B mm	L mm	E mm	colour	G kg
ABS					
UA-1-1 113	74	113	48	RAL 9011	0,02

optional:

UAA B Covering, blind (page D07)

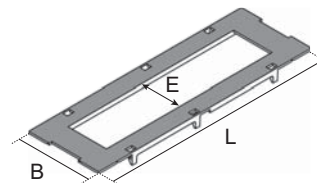


UAM 4 Cover plate for 4xUST45

	B mm	L mm	E mm	colour	G kg
ABS					
UAM-4-1 226	74	226	41	RAL 9011	0,03

optional:

UAA B Covering, blind (page D07)

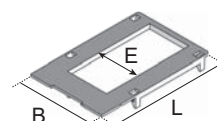


UAM 2 Cover plate for 2xUST45

	B mm	L mm	E mm	colour	G kg
ABS					
UAM-2-1 113	74	113	41	RAL 9011	0,02

optional:

UAA B Covering, blind (page D07)



DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

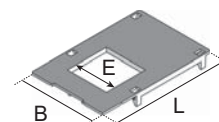
DEVICE INSTALLATION CUP AND DEVICE CARRIER DEVICE INSTALLATION CUP UG AND COVER PLATES

UAM 1 Cover plate for 1xUST45

	B mm	L mm	E mm	colour	G kg
ABS					
UAM-1-1 113	74	113	41	RAL 9011	0,02

optional:

UAA B Covering, blind (page D07)



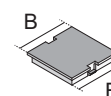
UA B 113 Cover plate, blind

	B mm	L mm	colour	G kg
ABS				
UA-B 113	74	113	RAL 9011	0,02



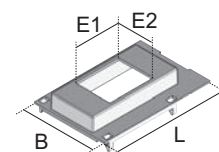
UAA B Covering, blind

	B mm	E1 mm	colour	G kg
ABS				
UAA-B 50	52,5	48,0	RAL 9011	0,01
UAA-B 45	45,0	40,5	RAL 9011	0,01



UALS 113 Cover plate for 2x automatic line protection

	B mm	L mm	E mm	colour	G kg
ABS					
UALS-2-1 113	74	113	45.5x36	RAL 9011	0,02



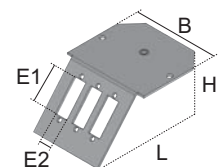
UGET 3 SCD Device cup assembly carrier fibre optic technology

For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-3-SCD 113	42	69	95	26,4	9,8	RAL 9005	0,07

optional:

UG Device cup, quadrangular (page D06)



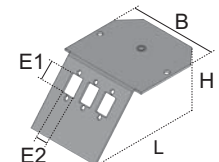
UGET 3 SCS Device cup assembly carrier fibre optic technology

For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-3-SCS 113	42	69	95	13,5	9,6	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



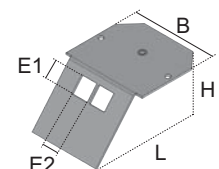
UGET 2 LCDM Device cup assembly carrier fibre optic technology

For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-2-LCDM 113	42	69	95	13,3	13,3	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

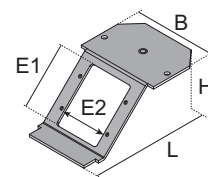
DEVICE INSTALLATION CUP AND DEVICE CARRIER DEVICE INSTALLATION CUP UG AND COVER PLATES

UGET 2 KM Device cup assembly carrier audio/video technology

Kindermann

For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-2-KM 113	42	69	107	48	38	RAL 9005	0,09



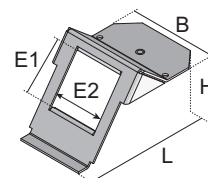
optional:

UG Device cup, quadrangular (page D06)

UGET 1 UST45 Device cup assembly carrier installation devices

For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-1-UST45 113	42	69	99	40,5	40,5	RAL 9005	0,09



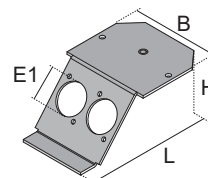
optional:

UG Device cup, quadrangular (page D06)

UGET 2 XLR Device cup installation carrier audio technology

For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	E1 mm	colour	G kg
S						
UGET-2-XLR 113	42	69	95	23,6	RAL 9005	0,10



included:

2 x **BLS 2.9x13** tapping screw (page D45)

2 x **BLS 4.8x9.5** tapping screw (page D45)

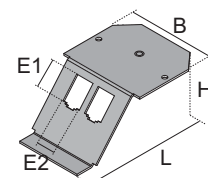
optional:

UG Device cup, quadrangular (page D06)

UGET 2 BTR Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-2-BTR 113	42	69	95	19.35/ 21.55	14,85	RAL 9005	0,08



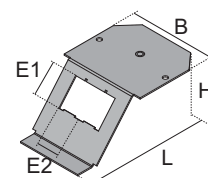
optional:

UG Device cup, quadrangular (page D06)

UGET 2 COR Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-2-COR 113	42	69	95	22,8	18	RAL 9005	0,08



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

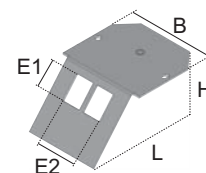
UGET 2 AMP Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
UGET-2-AMP 113	42	69	95	19,3	14,6	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



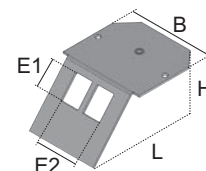
UGET 2 AMPSL Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
UGET-2-AMPSL 113	42	69	95	20,25	14,78	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



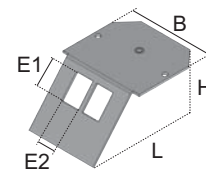
UGET 2 GG45 Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
UGET-2-GG45 113	42	69	95	20,1	14,7	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



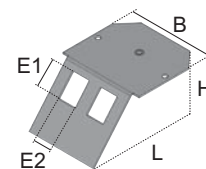
UGET 2 KR Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
UGET-2-KR 113	42	69	95	19,4	14,8	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



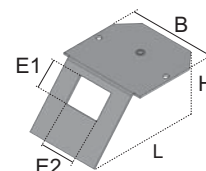
UGET 1 RM Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
UGET-1-RM 113	42	69	95	20,10	27,60	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



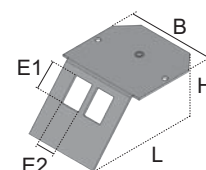
UGET 2 RMSC Device cup assembly carrier data technology

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
UGET-2-RMSC 113	42	69	95	19,50	14,90	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



D

DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

DEVICE INSTALLATION CUP AND DEVICE CARRIER DEVICE INSTALLATION CUP UG AND COVER PLATES

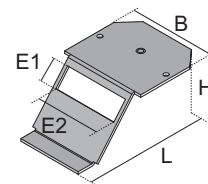
UGET 1-5PK Device cup assembly carrier plug-in systems

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
UGET-1-5PK 113	42	69	95	16,6	52,5	RAL 9005	0,10

optional:

UG Device cup, quadrangular (page D06)



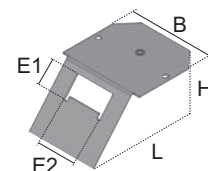
UGET 1-5PCOM Device cup assembly carrier plug-in systems

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
UGET-1-5PCOM 113	42	69	95	18,5	31,8	RAL 9005	0,08

optional:

UG Device cup, quadrangular (page D06)



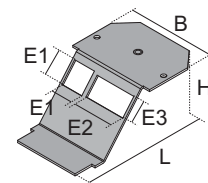
UGET 2-3PK Device cup assembly carrier plug-in systems

For assembly instructions, see the chapter assembly.

S	H mm	B mm	L mm	E1 mm	E2 mm	E3 mm	colour	G kg
UGET-2-3PK 113	42	69	95	17,8	33	15,6	RAL 9005	0,07

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

	H mm	Hmin mm	B mm	L mm	colour	G kg
ABS						
UG45-4	43	81	74	225	RAL 9011	0,08

included:

4 x **UGZ** strain relief (page D45)

optional:

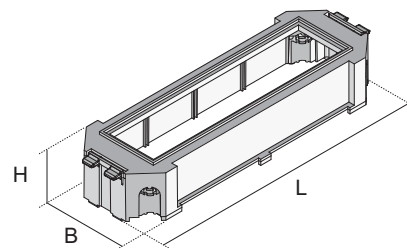
UTG device separation plate (page D06)

UAVS 113 Cover plate snap-in (page D11)

UA B 113 Cover plate, blind (page D07)

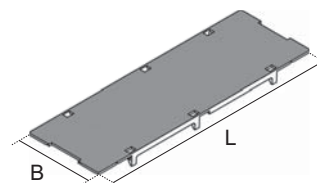
UA B 226 Cover plate, blind (page D11)

UAA B Covering, blind (page D07)



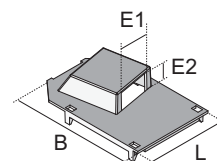
UA B 226 Cover plate, blind

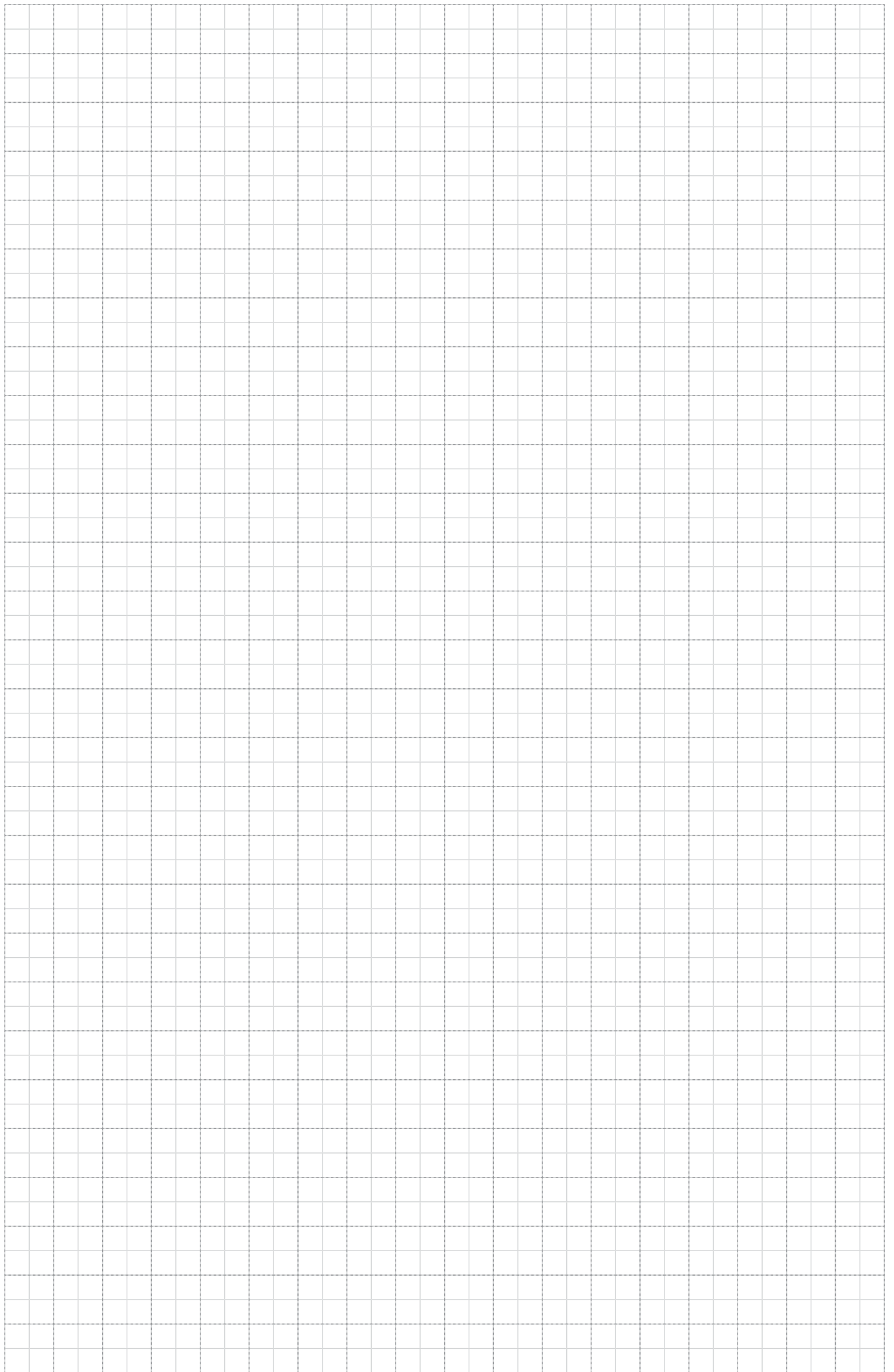
	B mm	L mm	colour	G kg
ABS				
UA-B 226	74	226	RAL 9011	0,03

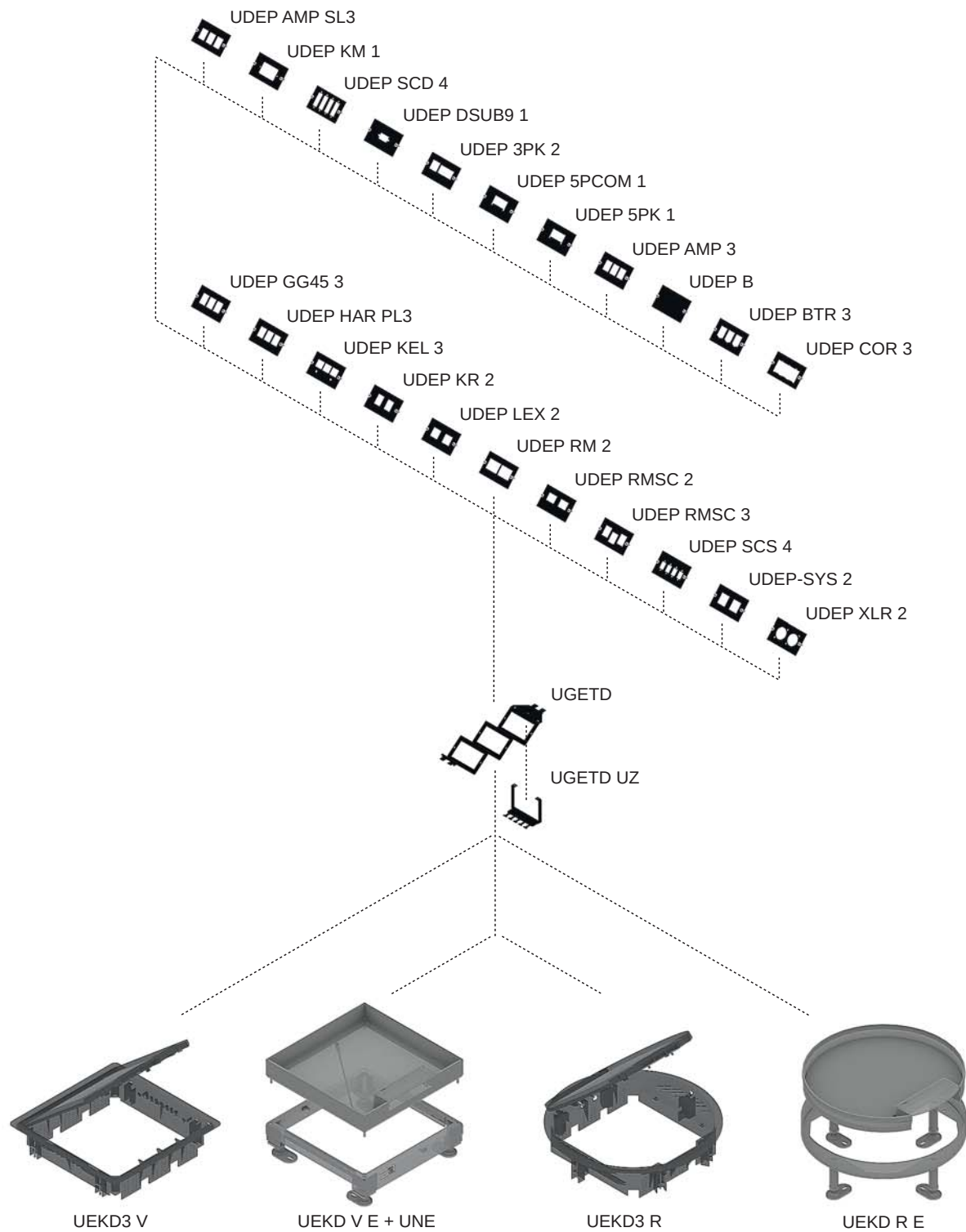


UAVS 113 Cover plate snap-in

	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	0,03





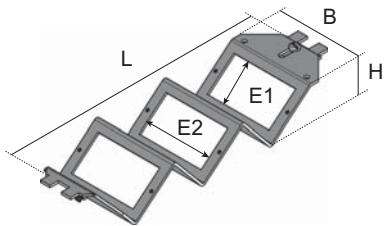


UGETD
 device carrier data, 3x UDEP

For assembly instructions, see the chapter assembly.

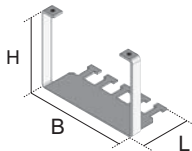
	H mm	Hmin mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S								
UGETD-3 226	33	74	75	227	33,5	59,5	RAL 9005	0,16

optional:
 UGETD UZ strain relief (page D14)



UGETD UZ
 strain relief

	H mm	B mm	L mm	colour	G kg
S					
UGETD-UZ	54	72	34	RAL 9005	0,07



DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

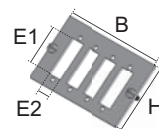
DATA-DEVICE CARRIERS ■ ADAPTER BOARD, LIGHT WAVE TECHNOLOGY, AUDIO/VIDEO TECHNOLOGY

UDEP SCD Adapter board light wave technology

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

optional:

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

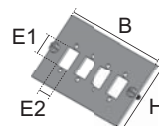


UDEP SCS Adapter board light wave technology

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

optional:

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



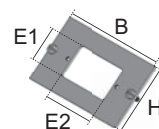
UDEP KM Adapter board audio/video technology

Kindermann

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

optional:

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

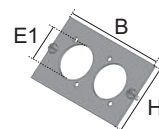


UDEP XLR Adapter board audio technology

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

optional:

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

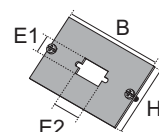


UDEP DSUB Adapter board audio/video technology

AL	H mm	B mm	E1 mm	E2 mm	G kg
UDEP-DSUB9 1	45,5	75	11,40	20,50	0,04

optional:

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



DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

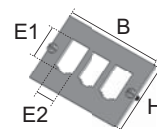
DATA-DEVICE CARRIERS ■ ADAPTER BOARD, DATA TECHNOLOGY

UDEP BTR Adapter board data technology

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

optional:

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

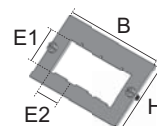


UDEP COR Adapter board data technology

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

optional:

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

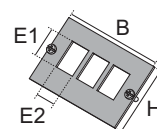


UDEP HAR Adapter board data technology

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

optional:

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

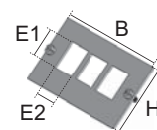


UDEP AMP Adapter board data technology

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

optional:

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

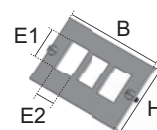


UDEP AMP SL Adapter board data technology

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

optional:

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

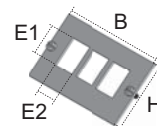


UDEP GG45 Adapter board data technology

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

optional:

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

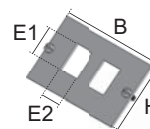


UDEP KR Adapter board data technology

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

optional:

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

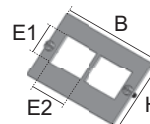


UDEP RM Adapter board data technology

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

optional:

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

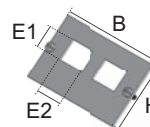


UDEP RMSC 2 Adapter board data technology

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

optional:

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

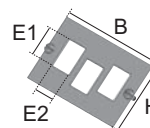


UDEP RMSC 3 Adapter board data technology

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

optional:

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

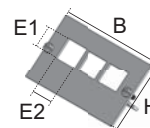


UDEP KEL Adapter board data technology

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

optional:

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

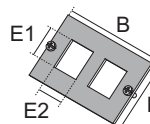


UDEP SYS 2 Adapter board data technology

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

optional:

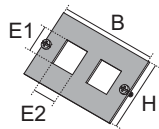
UGETD device carrier data, 3x UDEP (page D14)



UDEP LEX
 adapter board, data technology

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

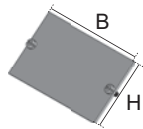
optional:
 UGETD device carrier data, 3x UDEP (page D14)



UDEP B
 Adapter board blind

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

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

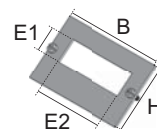


UDEP 5PK Adapter board module plug systems

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

optional:

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

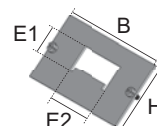


UDEP 5PCOM Adapter board module plug systems

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

optional:

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

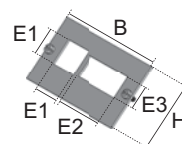


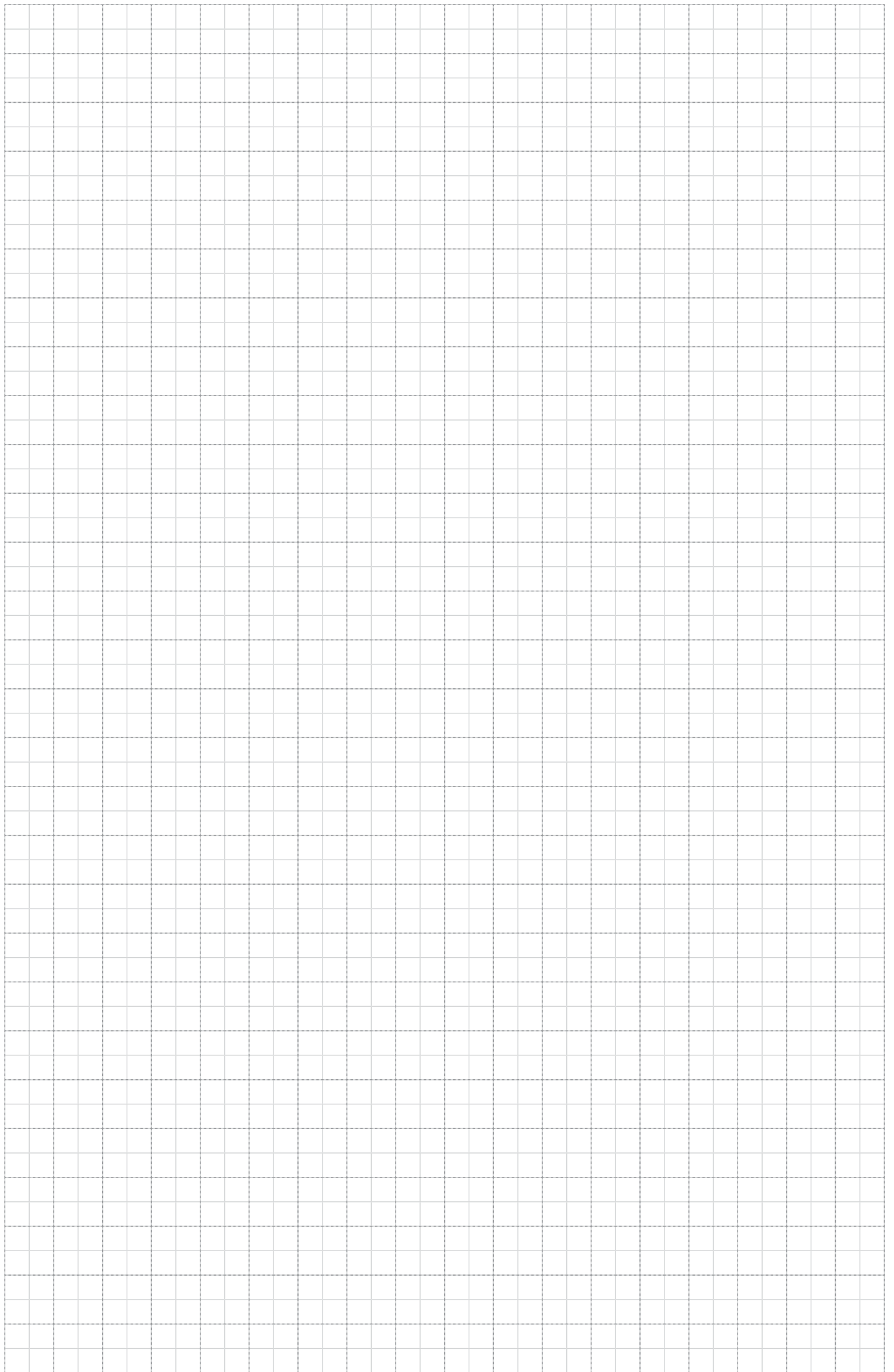
UDEP 3PK Adapter board module plug systems

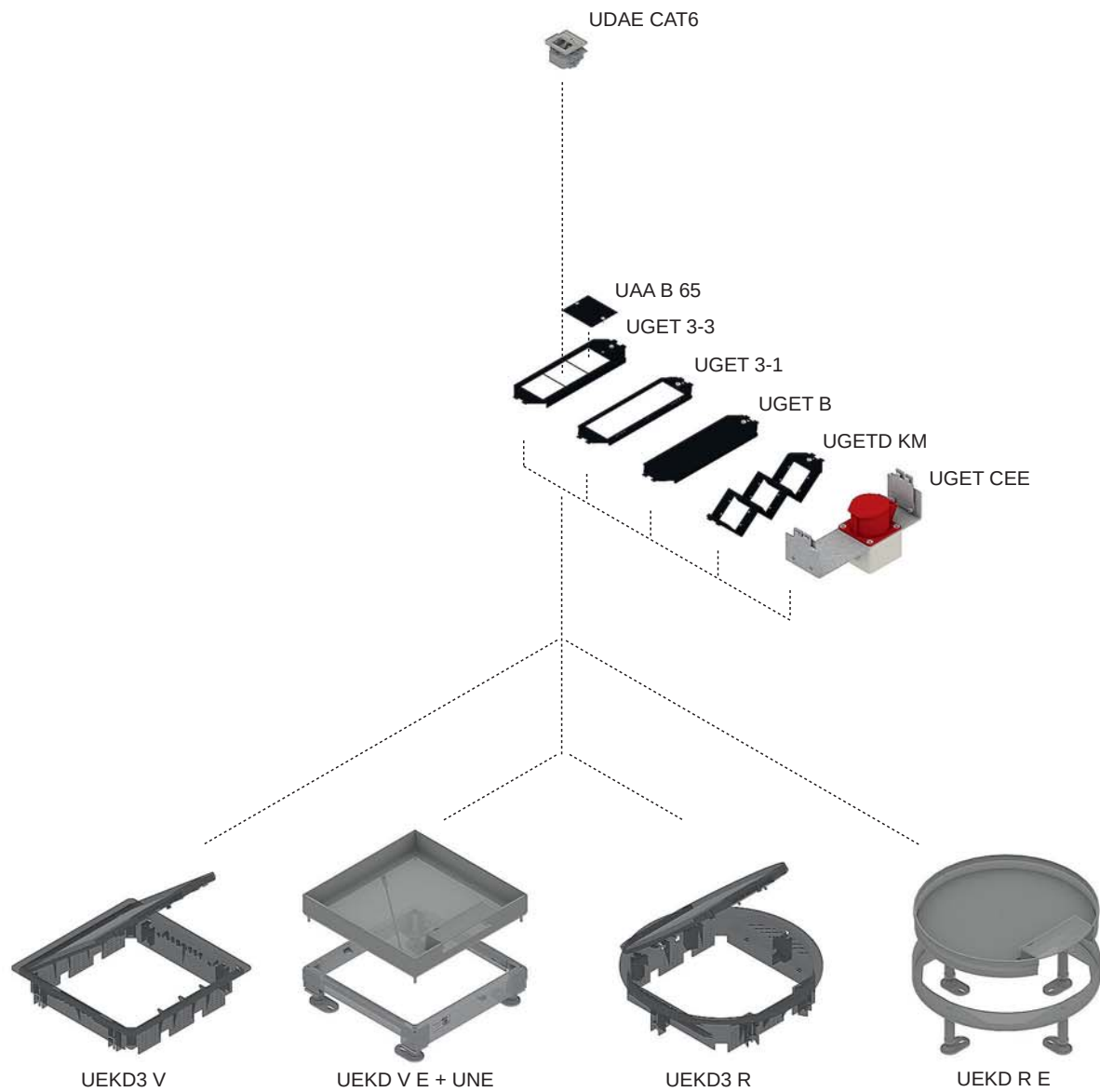
	H mm	B mm	E1 mm	E2 mm	E3 mm	G kg
AL						
UDEP-3PK 2	46	75	15,6	33	17,8	0,03

optional:

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







DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

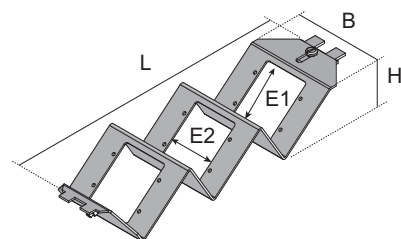
DEVICE CARRIER

UGETD KM device carrier audio / video technology

Kindermann

For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S								
UGETD-6-KM 226	40	83	75	227	48	38	RAL 9005	0,21

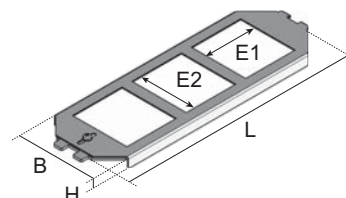


UGET 3-3 device carrier, 3x UDAE

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-3-3 226	10	75	220	50	50	RAL 9005	0,12

optional:

UAA B 65 cover (page D22)

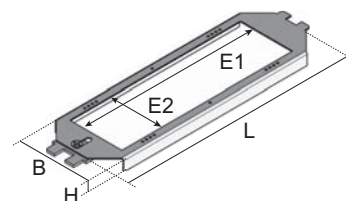


UGET 3-1 device carrier, 3x AMP/ACO

	H mm	B mm	L mm	E1 mm	E2 mm	colour	G kg
S							
UGET-3-1 226	7	71,5	226	177	50,5	RAL 9005	0,10

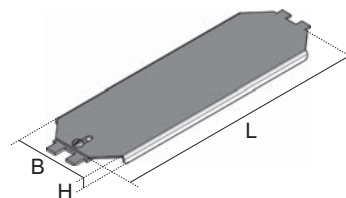
optional:

UAA B 65 cover (page D22)



UGET B device carrier blind

	H mm	B mm	L mm	colour	G kg
S					
UGET-B 226	7	71,5	226	RAL 9005	0,17



UGET CEE Device carrier CEE socket

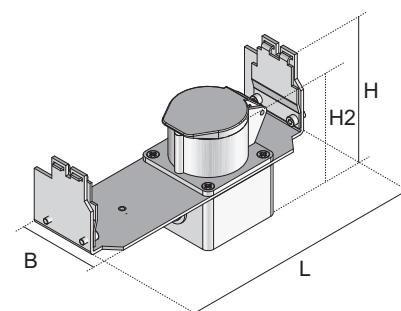
suitable for centered installation at appropriate registering leads

For assembly instructions, see the chapter assembly.

	H mm	H2 mm	Hmin mm	Hmin mm	B mm	L mm	G kg
S							
UGET-CEE16 226	122	115	170	185	75	236	0,90
UGET-CEE32 226	122	120	170	210	75	236	0,96

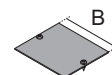
optional:

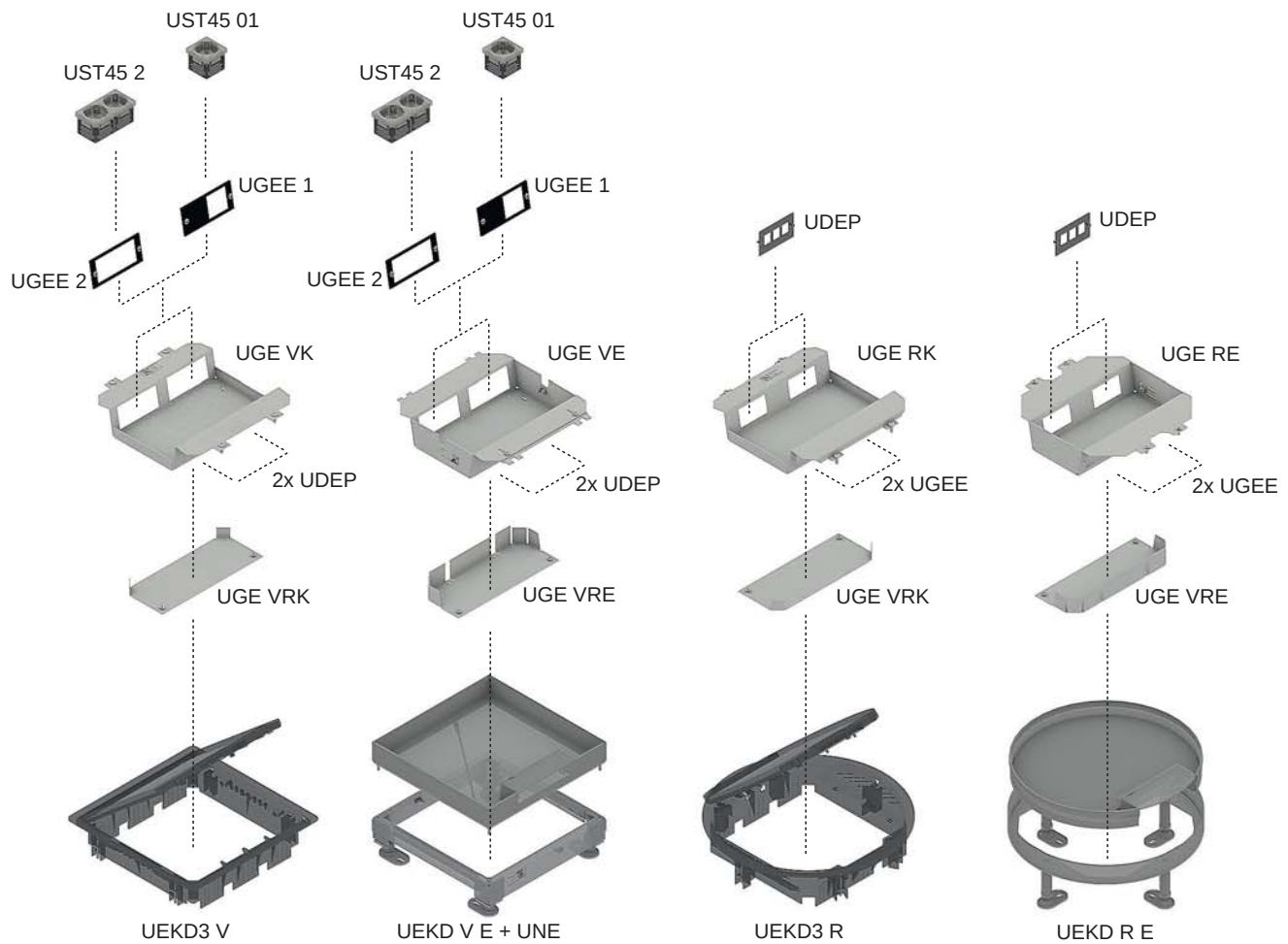
UGEARL registering extension, triple (page C14)



UAA B 65 cover

	B mm	colour	G kg
S			
UAA-B 65S	65	RAL 9005	0,03



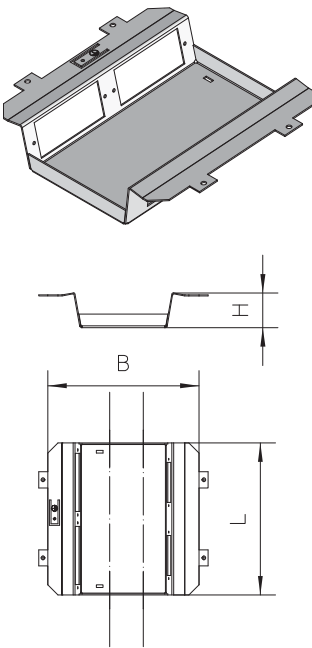


UGE VK
 Device insert, triple, for installation unit plastic quadrangular

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.

	H mm	Hmin mm	B mm	L mm	G kg
S					
UGE3-VK 8	51,7	65	252	226	0,76

optional:
 UGEE 1 UST45 insert board, shockproof socket (page D25)
 UGEE 2 UST45 insert board, shockproof socket (page D26)

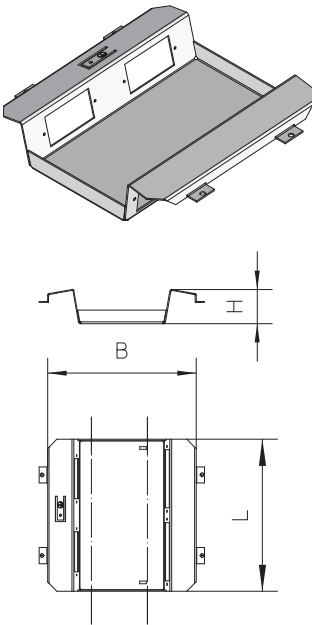


UGE RK
 Device insert, triple, for installation unit plastic round

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.

	H mm	Hmin mm	B mm	L mm	G kg
S					
UGE3-RK 8	51	65	225	228	0,71

optional:
 UGEE 1 UST45 insert board, shockproof socket (page D25)
 UGEE 2 UST45 insert board, shockproof socket (page D26)



DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

DEVICE INSERT

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

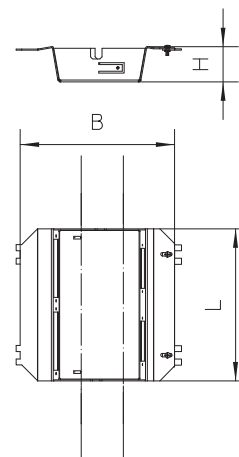
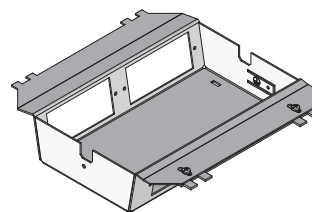
Device insert made of sheet steel for the insertion into a quadrangular installation unit made of stainless steel to accommodate up to 4 installation devices of 45x45mm and 6 data single jacks. For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	G kg
S					
UGE3-VE 8	52,3	85	227	226	0,89

optional:

UGEE 1 UST45 insert board, shockproof socket (page D25)

UGEE 2 UST45 insert board, shockproof socket (page D26)



UGE RE Device insert triple, for installation unit high-grade steel round

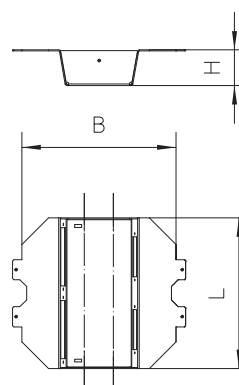
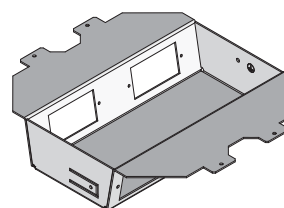
Device insert made of sheet steel for the insertion into a round installation unit made of stainless steel to accommodate up to 4 installation devices of 45x45mm and 6 data single jacks. For assembly instructions, see the chapter assembly.

	H mm	Hmin mm	B mm	L mm	G kg
S					
UGE3-RE 8	53	90	227	226	0,81

optional:

UGEE 1 UST45 insert board, shockproof socket (page D25)

UGEE 2 UST45 insert board, shockproof socket (page D26)



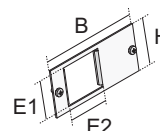
UGEE 1 UST45 insert board, shockproof socket

For 0° socket.

	H mm	B mm	E1 mm	E2 mm	colour	G kg
S						
UGEE-1-UST45	50	108	41,0	41,0	RAL 9005	0,05

optional:

UST45 1 shockproof socket single (page D28)

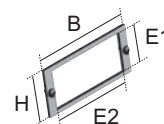


DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

DEVICE INSERT

UGEE 2 UST45 insert board, shockproof socket

	H mm	B mm	E1 mm	E2 mm	colour	G kg
S						
UGEE-2-UST45	50	108	41,0	86,5	RAL 9005	<0.01



optional:

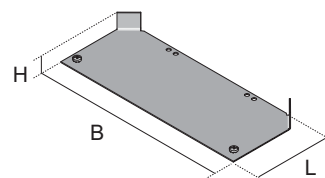
UST45 1 shockproof socket single (page D28)

UST45 2 shockproof socket, duplex (page D28)

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.

	H mm	B mm	L mm	G kg
S				
UGE3-VRK-B	19,2	87	220	0,16



optional:

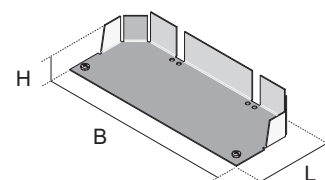
UGE RK Device insert, triple, for installation unit plastic round (page D24)

UGE VK Device insert, triple, for installation unit plastic quadrangular (page D24)

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.

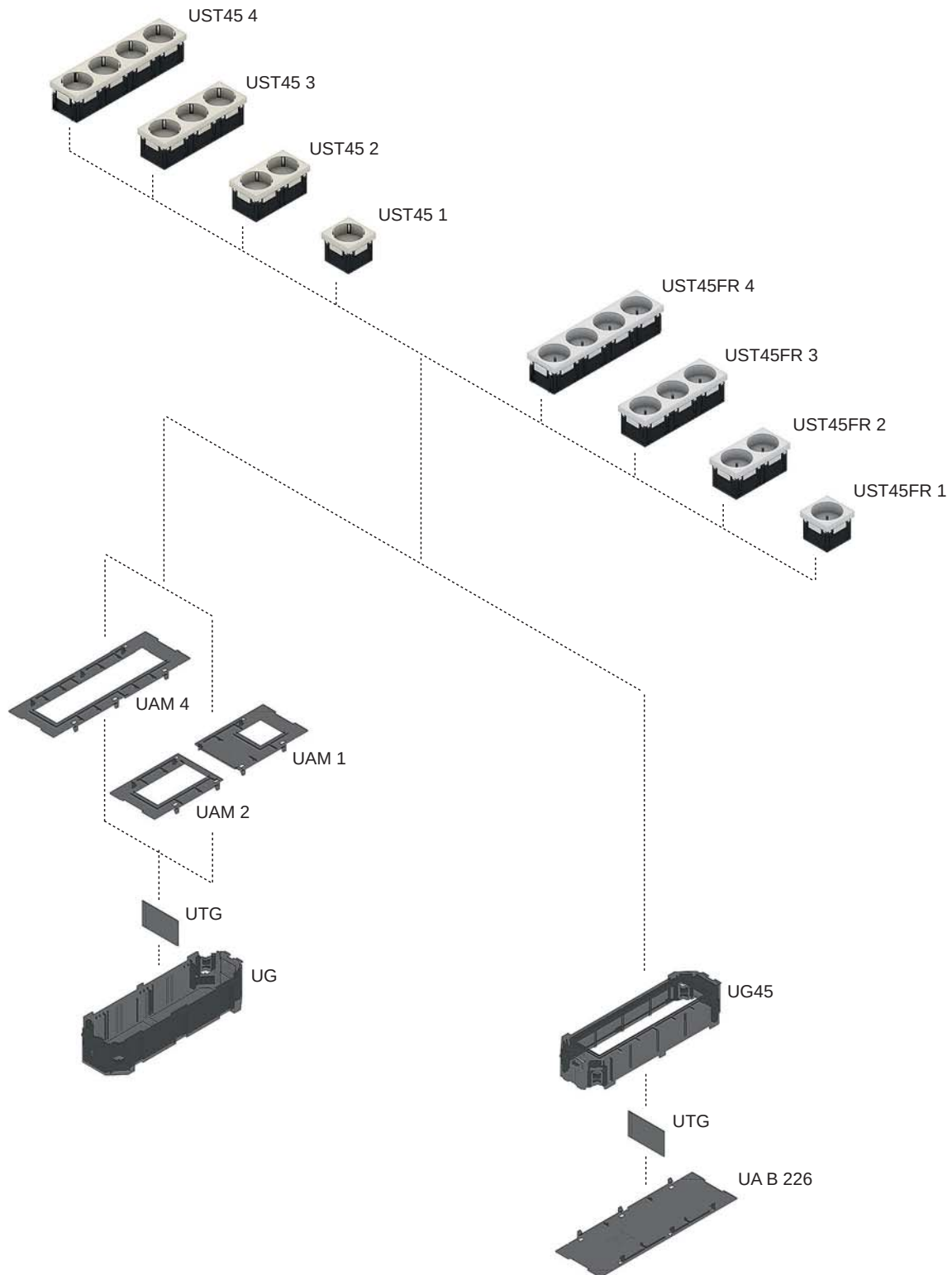
	H mm	B mm	L mm	G kg
S				
UGE3-VRE-B	34,5	86	219	0,21



optional:

UGE RK Device insert, triple, for installation unit plastic round (page D24)

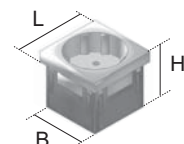
UGE VK Device insert, triple, for installation unit plastic quadrangular (page D24)



UST45 1 shockproof socket single

For assembly instructions, see the chapter assembly.

	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



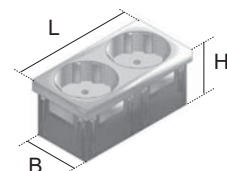
optional:

UAM 1 Cover plate for 1xUST45 (page D07)

UST45 2 shockproof socket, duplex

For assembly instructions, see the chapter assembly.

	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



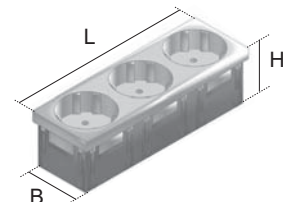
optional:

UAM 2 Cover plate for 2xUST45 (page D06)

UST45 3 shockproof socket triple

For assembly instructions, see the chapter assembly.

	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



optional:

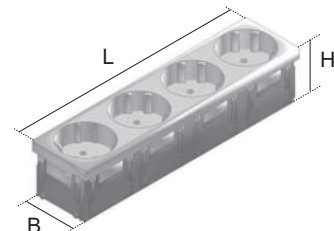
UAM 4 Cover plate for 4xUST45 (page D06)

UAA B Covering, blind (page D07)

UST45 4 shockproof socket quadruple

For assembly instructions, see the chapter assembly.

	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



optional:

UAM 4 Cover plate for 4xUST45 (page D06)

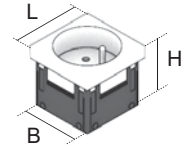
UST45FR 1 Installation socket with earthing pin, single

For assembly instructions, see the chapter assembly.

	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

optional:

UAM 1 Cover plate for 1xUST45 (page D07)



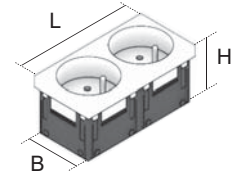
UST45FR 2 Installation socket with earthing pin, double

For assembly instructions, see the chapter assembly.

	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

optional:

UAM 2 Cover plate for 2xUST45 (page D06)



UST45FR 3 Installation socket with earthing pin, tripple

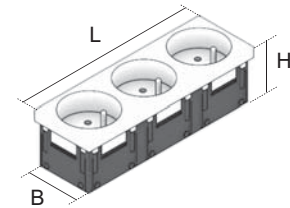
For assembly instructions, see the chapter assembly.

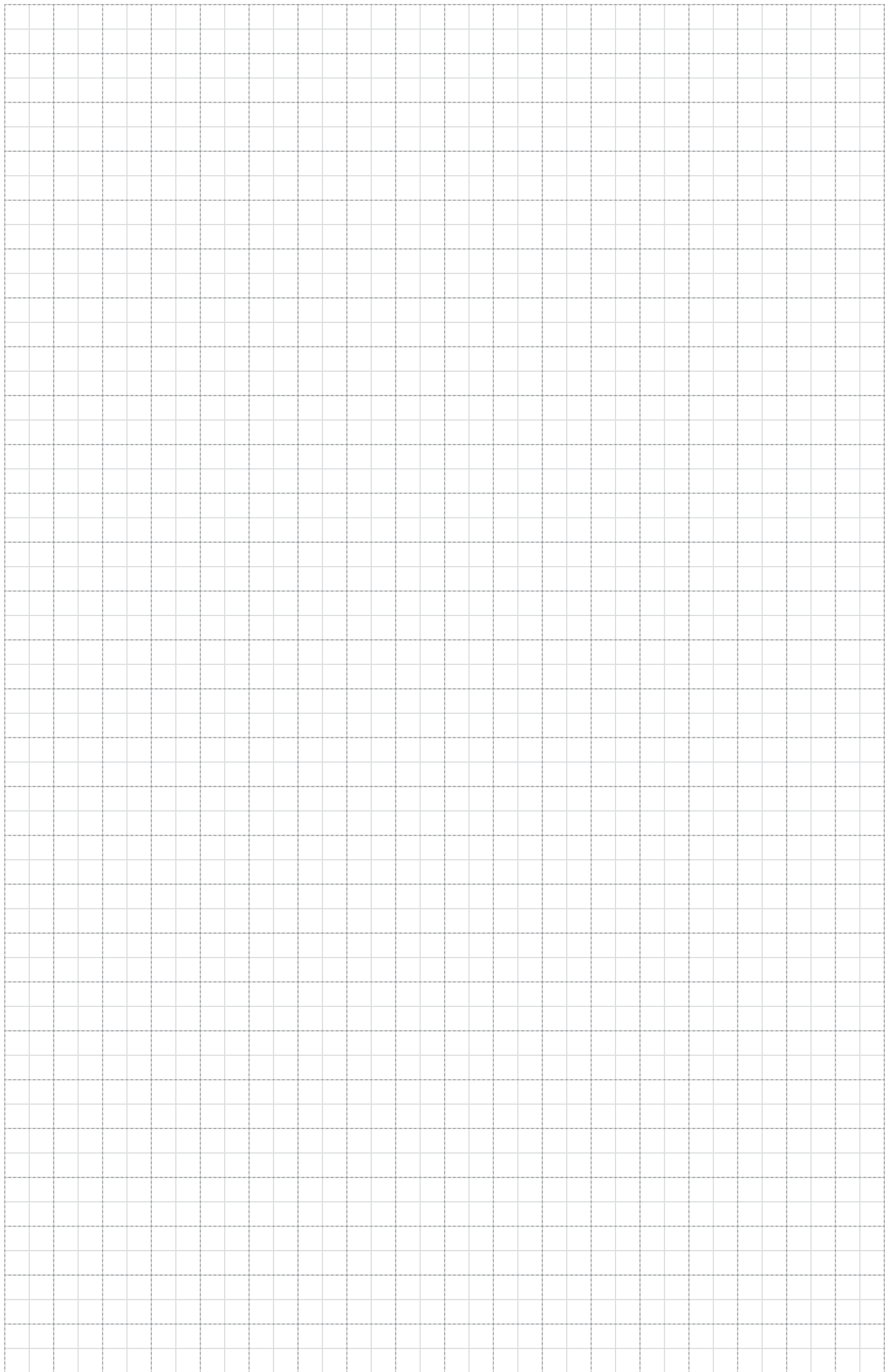
	H mm	B mm	L mm	colour	plug angle °	G kg
PC						
UST45FR-CW 3	42	40	135	cream white (similar to RAL 1013)	33	0,11
UST45FR-R 3	42	40	135	red (similar to RAL 3003)	33	0,11
UST45FR-W 3	42	40	135	white (similar to RAL 9010)	33	0,11

optional:

UAM 4 Cover plate for 4xUST45 (page D06)

UAA B Covering, blind (page D07)





DATA TECHNOLOGY / MULTIMEDIA



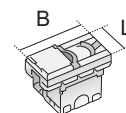
UDAE22 data systems installation device single

	B mm	L mm	colour	G kg
PC				
UDAE22-CAT6 8	45	22,5	white	0,04

optional:

UAM 1 Cover plate for 1xUST45 (page D07)

UAA B 22 cover (page D33)



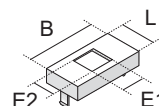
UDA22-KS Data cover, Keystone

Data cover for 1 Keystone module with installation opening of 19,50 x 14,70 mm, made of plastic, white, latchable.

	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

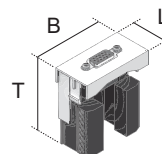
optional:

UG45 Device cup, quadrangular, open (page D11)



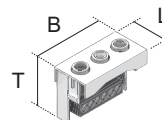
UDM22 VGA Media module 22,5 x 45 mm

	B mm	L mm	t mm	colour	G kg
PC					
UDM22-VGA	45	22,5	47	white	0,01



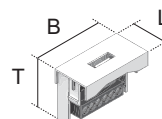
UDM22 RCA Media module 22,5 x 45 mm

	B mm	L mm	t mm	colour	G kg
PC					
UDM22-RCA	45	22,5	33,5	white	0,01



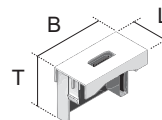
UDM22 USB Media module 22,5 x 45 mm

	B mm	L mm	t mm	colour	G kg
PC					
UDM22-USB	45	22,5	33,5	white	0,01



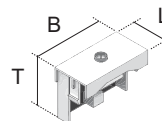
UDM22 HDMI Media module 22,5 x 45 mm

	B mm	L mm	t mm	colour	G kg
PC					
UDM22-HDMI	45	22,5	33,5	white	0,01



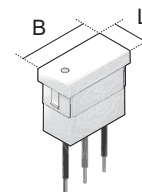
UDM22 TV Media module 22,5 x 45 mm

	B mm	L mm	t mm	colour	G kg
PC					
UDM22-TV	45	22,5	33,5	white	0,01



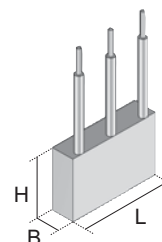
USSM FM overvoltage protection module

	B mm	L mm	G kg
PA			
USSM22-FM	22,5	45	0,03



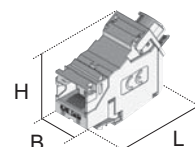
USSM overvoltage protection module Class III/ D/ type3

	H mm	B mm	L mm	colour	G kg
PA					
USSM	9	24	36	red	0,01



UDAEUM data systems installation device

	H mm	B mm	L mm	slots	plug angle °	G kg
PC						
UDAEUM-CAT6 1	28	14,6	35,5	1	45	0,02

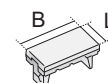


optional:

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 D09)
UGET 2 RMSC	Device cup assembly carrier data technology	(page D09)
UDA45-KS	Data cover, Keystone	(page D34)
UDA22-KS	Data cover, Keystone	(page D32)

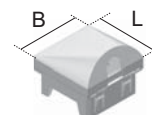
UAA B 22 cover

	B mm	L mm	colour	G kg
PC				
UAA-B 22	45	22,5	white	0,01



UAPAM Cable outlet

	B mm	L mm	colour	G kg
PC				
UAPAM-KA 45	45	45	white	0,01

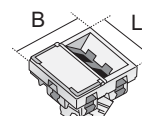


optional:

UAM 1 Cover plate for 1xUST45 (page D07)

UDAE45 data systems installation device double, not screened

	B mm	L mm	colour	G kg
PC				
UDAE45-CAT6U 8/8	45	45	white	0,03



optional:

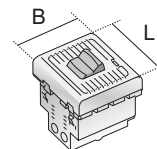
UAM 1 Cover plate for 1xUST45 (page D07)

USA45 automatic circuit breaker

	B mm	L mm	colour	G kg
PC				
USA45-B16	45	45	white	0,05

optional:

UAM 1 Cover plate for 1xUST45 (page D07)

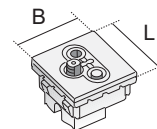


UANT45 TV/ radio/ SAT-single socket

	B mm	L mm	colour	G kg
PC				
UANT45 1	45	45	white	0,07

optional:

UAM 1 Cover plate for 1xUST45 (page D07)



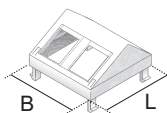
UDA45-BTR Data cover, BTR

Data cover for 2 BTR E-DAT modules, made of plastic material, white, latchable, plug direction 30°.

	B mm	L mm	colour	G kg
ABS				
UDA45-BTR 2	45	45	white	0,02

optional:

UG45 Device cup, quadrangular, open (page D11)



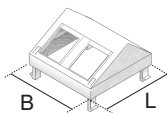
UDA45-COR Data cover, Corning

Data cover for 2 Corning LANscape® module, made of plastic, white, latchable, plug direction 30°.

	B mm	L mm	colour	G kg
ABS				
UDA45-COR 2	45	45	white	0,02

optional:

UG45 Device cup, quadrangular, open (page D11)



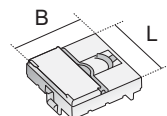
UDA45-KR Data cover, KRONE

Data cover for 1 KRONE modular Jack, made of plastic, white, latchable.

	B mm	L mm	colour	G kg
ABS				
UDA45-KR 1	45	45	white	0,01

optional:

UG45 Device cup, quadrangular, open (page D11)



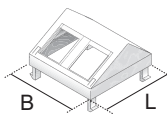
UDA45-KS Data cover, Keystone

Data cover for 2 Keystone modules with installation opening of 19,5 x 14,70mm, made of plastic, white, latchable, plug direction 30°.

	B mm	L mm	colour	G kg
ABS				
UDA45-KS 2	45	45	white	0,02

optional:

UG45 Device cup, quadrangular, open (page D11)



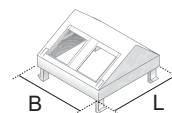
UDA45-RM Data cover, Reichle & De-Massari

Data cover for 2 Reichle & De-Massari modules, made of plastic, white, latchable, plug direction 30°.

	B mm	L mm	colour	G kg
ABS				
UDA45-RM 2	45	45	white	0,02

optional:

UG45 Device cup, quadrangular, open (page D11)



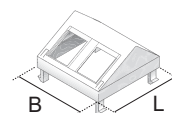
UDA45-SYM Data cover, Systimax

Data cover for 2 Systimax modules, made of plastic, white, latchable, plug direction 30°.

	B mm	L mm	colour	G kg
ABS				
UDA45-SYM 2	45	45	white	0,02

optional:

UG45 Device cup, quadrangular, open (page D11)



UTAE telephone socket

For assembly instructions, see the chapter assembly.

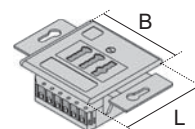
	B mm	L mm	slots	plug angle °	G kg
PC					
UTAE-6NFN	50	50	3	90	0,05

optional:

UA 3 Cover plate for 3xUTAE (page D06)

UA 1 Cover plate for 1xUTAE (page D06)

UGET 3-3 device carrier, 3x UTAE (page D22)



UDAE data systems installation device

For assembly instructions, see the chapter assembly.

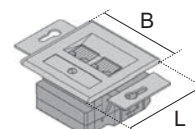
	B mm	L mm	slots	plug angle °	G kg
PC					
UDAE 8	50	50	1	45	0,02
UDAE 8/8	50	50	2	45	0,04
UDAE-CAT5 8	50	50	1	45	0,12
UDAE-CAT5 8/8	50	50	2	45	0,12

optional:

UA 3 Cover plate for 3xUDAE (page D06)

UA 1 Cover plate for 1xUDAE (page D06)

UGET 3-3 device carrier, 3x UDAE (page D22)



UDAE CAT6 data systems installation device

For assembly instructions, see the chapter assembly.

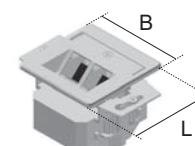
	B mm	L mm	slots	plug angle °	G kg
PC					
UDAE-CAT6 8	50	50	1	45	0,13
UDAE-CAT6 8/8	50	50	2	45	0,13

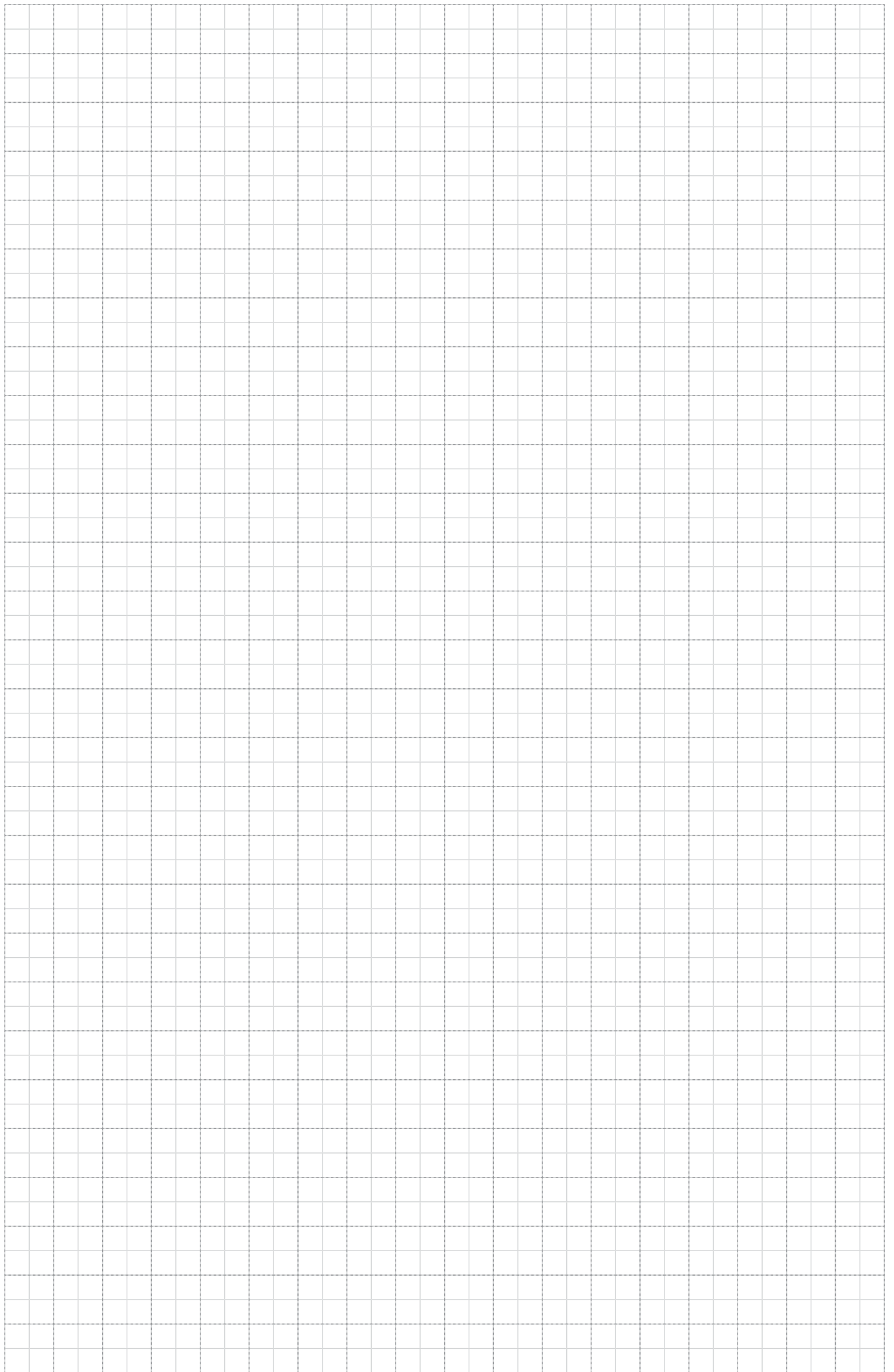
optional:

UA 3 Cover plate for 3xUDAE (page D06)

UA 1 Cover plate for 1xUDAE (page D06)

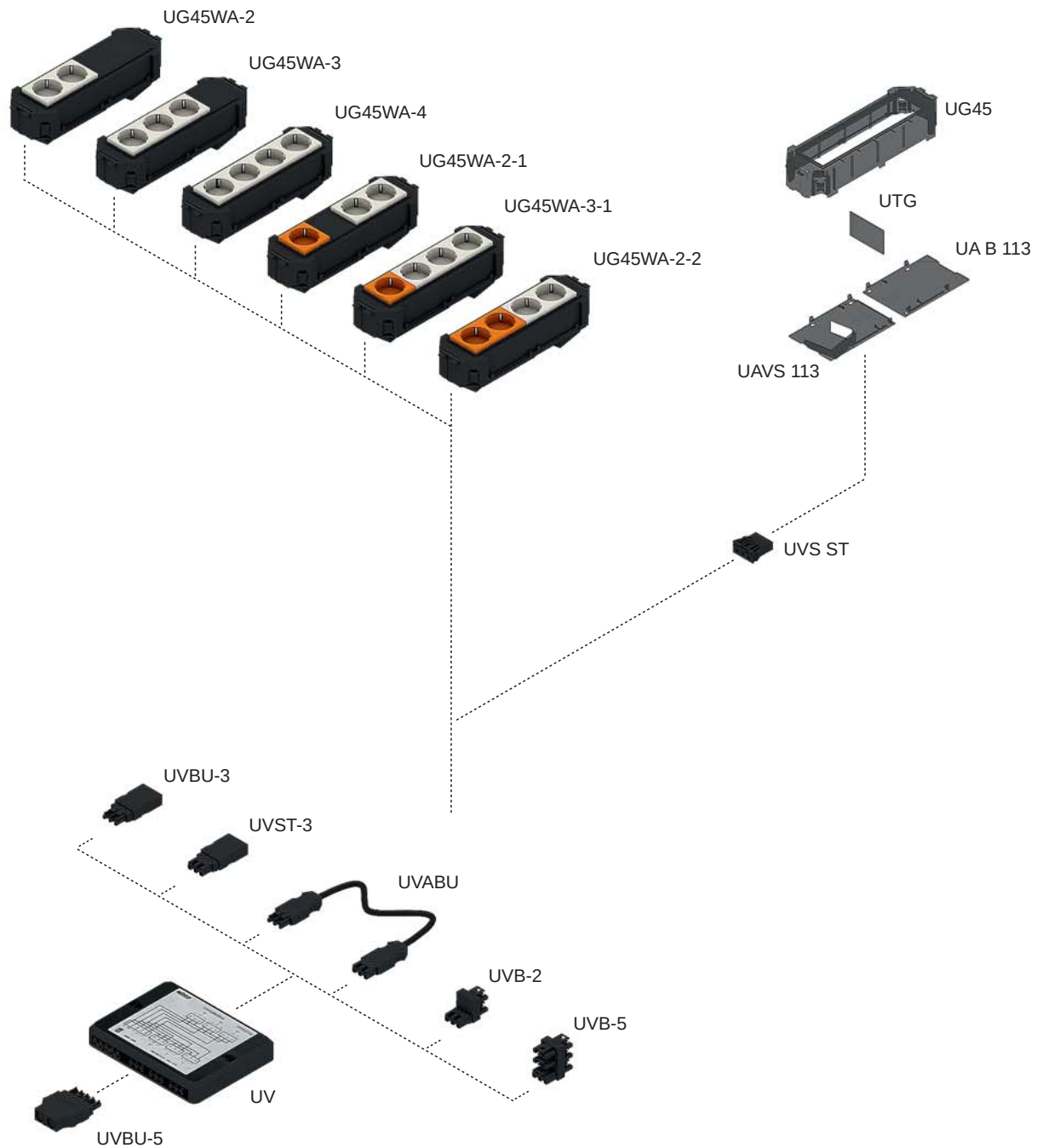
UGET 3-3 device carrier, 3x UDAE (page D22)





SYSTEM OVERVIEW

CONNECTOR SYSTEM WAGO



DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

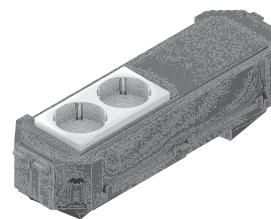
CONNECTOR SYSTEM WAGO

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.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WA-CW2	black	double, cream white
UG45WA-G2	white	double green
UG45WA-O2	white	double, orange

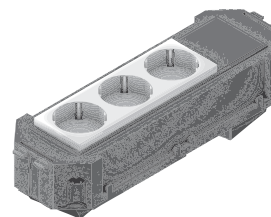


UG45WA-3 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WA-CW3	black	triple, cream white
UG45WA-G3	white	Three-fold green
UG45WA-O3	white	triple, orange



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.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WA-CW4	black	quadruple, cream white
UG45WA-O4	white	quadruple, orange

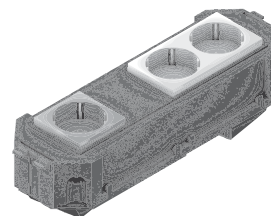


UG45WA-2-1 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WA-CW201	back/white	double cream white + single orange
UG45WA-O2CW1	white/black	double orange + single cream white

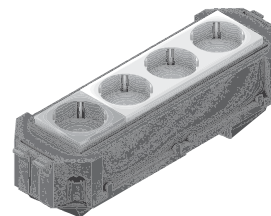


UG45WA-3-1 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WA-CW301	back/white	triple cream white + single orange
UG45WA-O3CW1	white/black	triple orange + single cream white

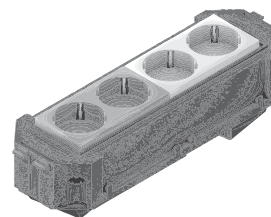


UG45WA-2-2 device mounting cup, WAGO

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WA-CW202	back/white	double cream white + double orange
UG45WA-CW2G2	back/white	double creme white + double green



DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

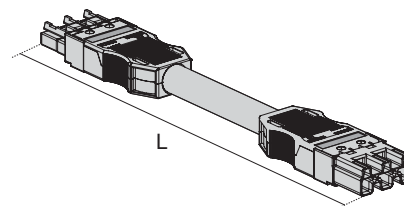
CONNECTOR SYSTEM WAGO

UVABU connecting line plug - socket, WAGO

WAGO WINSTA MIDI system

For assembly instructions, see the chapter assembly.

PA PVC	L mm	KQ mm ²	colour	entrance/exit
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

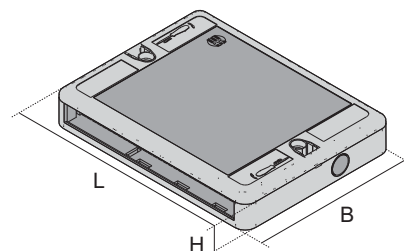


UV distributor box

WAGO WINSTA MIDI system

For assembly instructions, see the chapter assembly.

PA	H mm	B mm	L mm	colour	entrance	exit	G kg
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



optional:

UVBU-5 socket component (page D40)

UVABU connecting line plug - socket, WAGO (page D39)

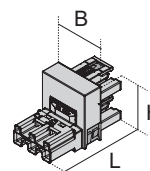
UVB-2 distributor block, 2x3 pole (page D39)

UVBU-3 socket component (page D40)

UVB-2 distributor block, 2x3 pole

WAGO WINSTA MIDI system

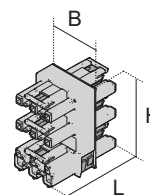
PA	H mm	B mm	L mm	colour	entrance	exit	G kg
UVB-S 2K	33	30	51	black	1x3pole	2x3pole	0,02
UVB-W 2K	33	30	51	white	1x3pole	2x3pole	0,02



UVB-5 distributor block, 5x3 pole

WAGO WINSTA MIDI system

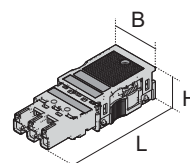
PA	H mm	B mm	L mm	colour	entrance	exit	G kg
UVB-S 5K	48	30	46	black	1x3pole	5x3pole	0,05
UVB-W 5K	48	30	46	white	1x3pole	5x3pole	0,05



UVST-3 plug component

WAGO WINSTA MIDI system

PA	H mm	B mm	L mm	colour	exit	G kg
UVST-S-3PK	15	35	76	black	3pole	0,02
UVST-W-3PK	15	35	76	white	3pole	0,02



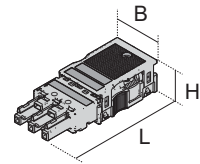
DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

CONNECTOR SYSTEM WAGO

UVBU-3 socket component

WAGO WINSTA MIDI system

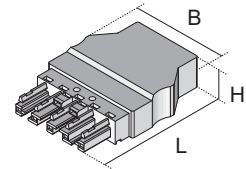
	H mm	B mm	L mm	colour	exit	G kg
PA						
UVBU-S-3PK	15	35	76	black	3pole	0,02
UVBU-W-3PK	15	35	76	white	3pole	0,02



UVBU-5 socket component

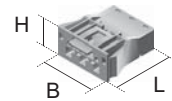
WAGO WINSTA MIDI system

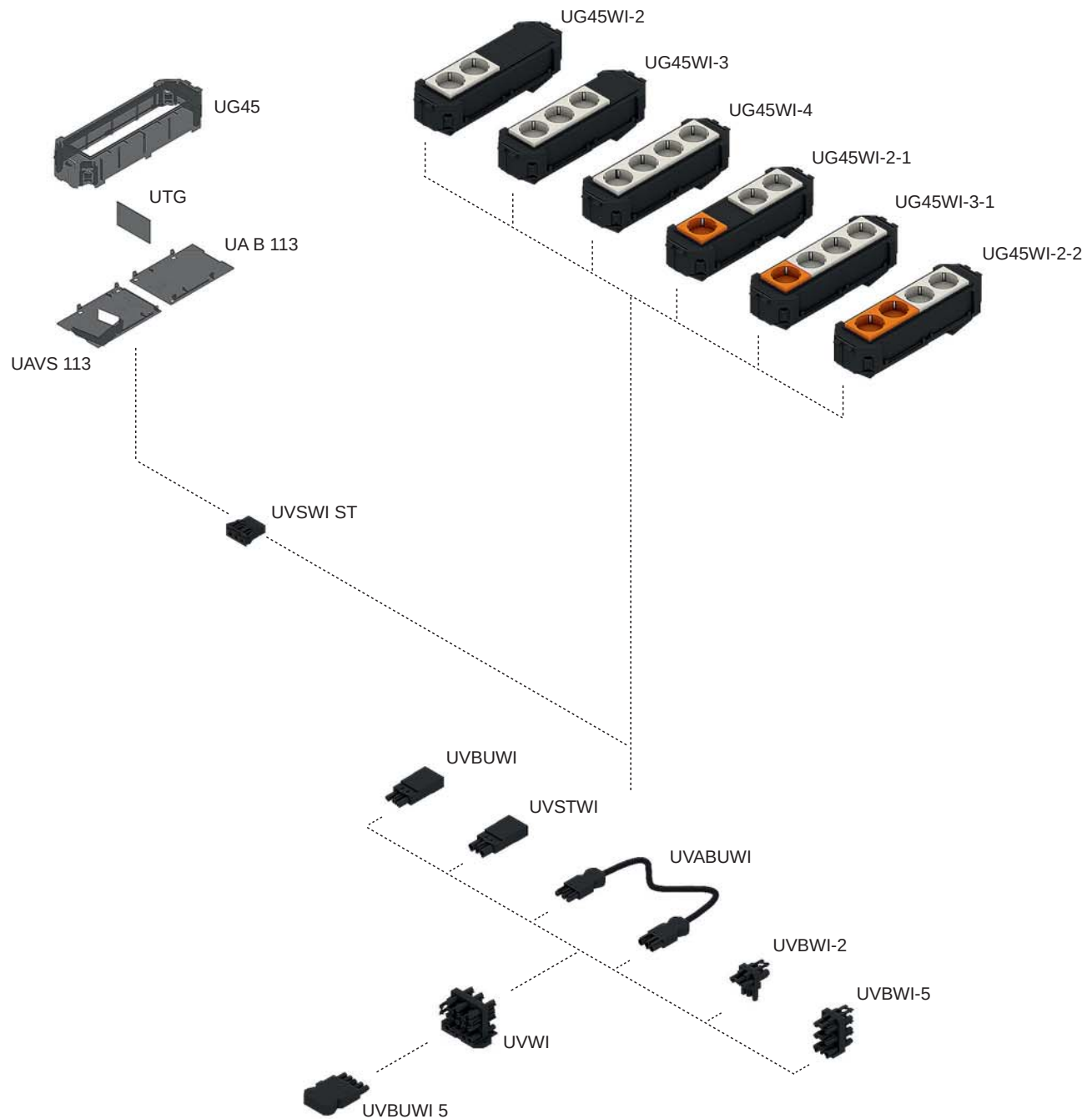
	H mm	B mm	L mm	colour	exit	G kg
PA						
UVBU-S-5PK	17	55	76	black	5-pole	0,02
UVBU-W-5PK	17	55	76	white	5-pole	0,02



UVS ST snap-in-piece, plug, Wago

	H mm	B mm	L mm	colour	entrance	exit	G kg
PA							
UVS-ST-S1K	17	35	37	black	1 x clamp	1x3pole plug	0,01
UVS-ST-W1K	17	35	37	white	1 x clamp	1x3pole plug	0,01





DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

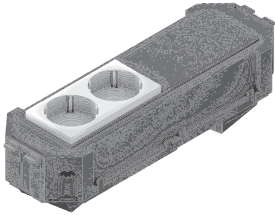
CONNECTOR SYSTEM WIELAND

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.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WI-CW2	black	double, cream white
UG45WI-G2	white	double green
UG45WI-O2	white	double, orange

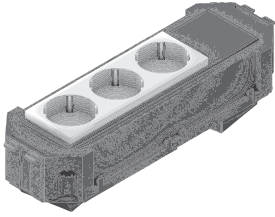


UG45WI-3 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WI-CW3	black	triple, cream white
UG45WI-G3	white	Three-fold green
UG45WI-O3	white	triple, orange

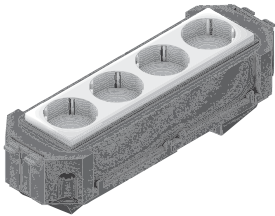


UG45WI-4 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WI-CW4	black	quadruple, cream white
UG45WI-O4	white	quadruple, orange

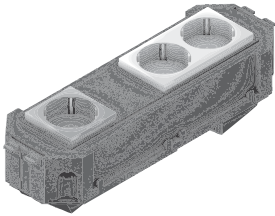


UG45WI-2-1 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WI-CW201	back/white	double cream white + single orange
UG45WI-O2CW1	white/black	double orange + single cream white

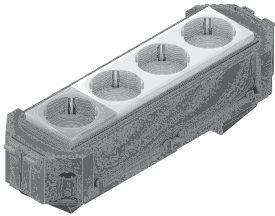


UG45WI-3-1 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WI-CW301	back/white	triple cream white + single orange
UG45WI-O3CW1	white/black	triple orange + single cream white

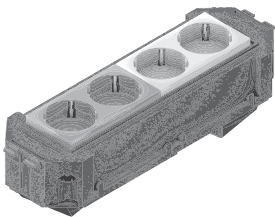


UG45WI-2-2 device mounting cup, Wieland

Only suitable for raised and hollow floors. Other pre-converted device cups are available upon request.
For assembly instructions, see the chapter assembly.

colour Snap-in configuration grounding receptacle 16A

ABS		
UG45WI-CW202	back/white	double cream white + double orange
UG45WI-CW2G2	back/white	double creme white + double green



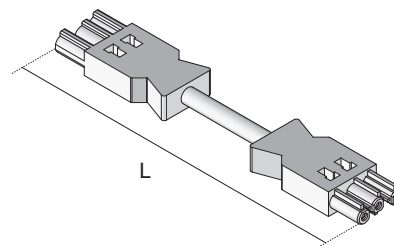
DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

CONNECTOR SYSTEM WIELAND

UVABUWI connecting line plug - socket, Wieland

For assembly instructions, see the chapter assembly.

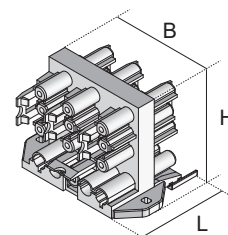
PA PVC	L mm	KQ mm ²	colour	entrance/exit
UVABUWI-S-2.5-100	1000	2,5	black	3pole
UVABUWI-S-2.5-400	4000	2,5	black	3pole
UVABUWI-S-2.5-600	6000	2,5	black	3pole
UVABUWI-S-2.5-800	8000	2,5	black	3pole
UVABUWI-W-2.5-100	1000	2,5	white	3pole
UVABUWI-W-2.5-400	4000	2,5	white	3pole
UVABUWI-W-2.5-600	6000	2,5	white	3pole
UVABUWI-W-2.5-800	8000	2,5	white	3pole



UVWI distributor block

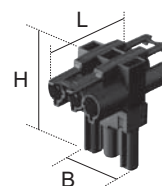
For assembly instructions, see the chapter assembly.

PA	H mm	B mm	L mm	colour	entrance	exit	G kg
UVWI-S 6	57	50	59	black	1x5pole	6x3pole	0,02
UVWI-W 6	57	50	59	white	1x5pole	6x3pole	0,02



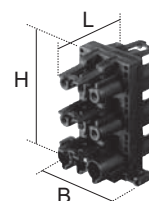
UVBWI-2 distributor block

PA	H mm	B mm	L mm	colour	entrance	exit	G kg
UVBWI-S 2	43	28	59	black	1x3pole	2x3pole	0,02
UVBWI-W 2	43	28	59	white	1x3pole	2x3pole	0,02



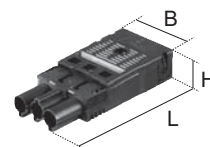
UVBWI-5 distributor block

PA	H mm	B mm	L mm	colour	entrance	exit	G kg
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

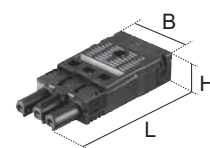
PA	H mm	B mm	L mm	colour	exit	G kg
UVSTWI-S-3P	16	33	75	black	3pole	0,02
UVSTWI-W-3P	16	33	75	white	3pole	0,02



UVBUWI-3 socket part, Wieland

Wieland gesis GST 18i3

PA	H mm	B mm	L mm	colour	exit	G kg
UVBUWI-S-3P	16	33	75	black	3pole	0,02
UVBUWI-W-3P	16	33	75	white	3pole	0,02



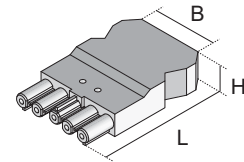
DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

CONNECTOR SYSTEM WIELAND

UVBUWI-5 socket part, Wieland

Wieland gesis GST 18i3

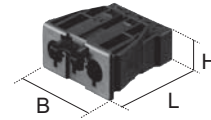
PA	H mm	B mm	L mm	colour	exit	G kg
UVBUWI-S-5P	17	48	77	black	5-pole	0,02
UVBUWI-W-5P	17	48	77	white	5-pole	0,02



UVSWI ST Snap-in-piece, plug, Wieland

WIELAND GST18 system

PA	H mm	B mm	L mm	colour	entrance	exit	G kg
UVSWI-ST-W1	17	35	37	white	1 x clamp	1x3pole plug	0,02
UVSWI-ST-S1	17	35	37	black	1 x clamp	1x3pole plug	0,02

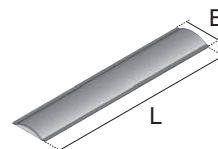


DEVICE INSTALLATION CUPS AND INSTALLATION DEVICES

ACCESSORIES

UBS label strip

	B mm	L mm	G kg
S			
UBS 10x60	10	60	0,01



BLS tapping screw

	G kg
S	
BLS 2.9x13	0,01
BLS 2.9x32	0,01
BLS 4.8x9.5	0,01



BSS Flat head tapping screw

	G kg
GV	
BSS 4.8x22	<0.01



UGZ R strain relief

	G kg
ABS	
UGZ-R	0,01



included:

- 1 x **BLS 2.9x13** tapping screw (page D45)
- 1 x **BLS 4.8x9.5** tapping screw (page D45)

optional:

- BLS** tapping screw (page D45)

UGZ strain relief

	G kg
ABS	
UGZ	0,01



optional:

- BLS** tapping screw (page D45)

UWZ Z underfloor tongs

	G kg
S	
UWZ-Z	0,22



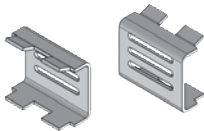
UWZ UG mounting lever

	G kg
S	
UWZ-UG	0,07



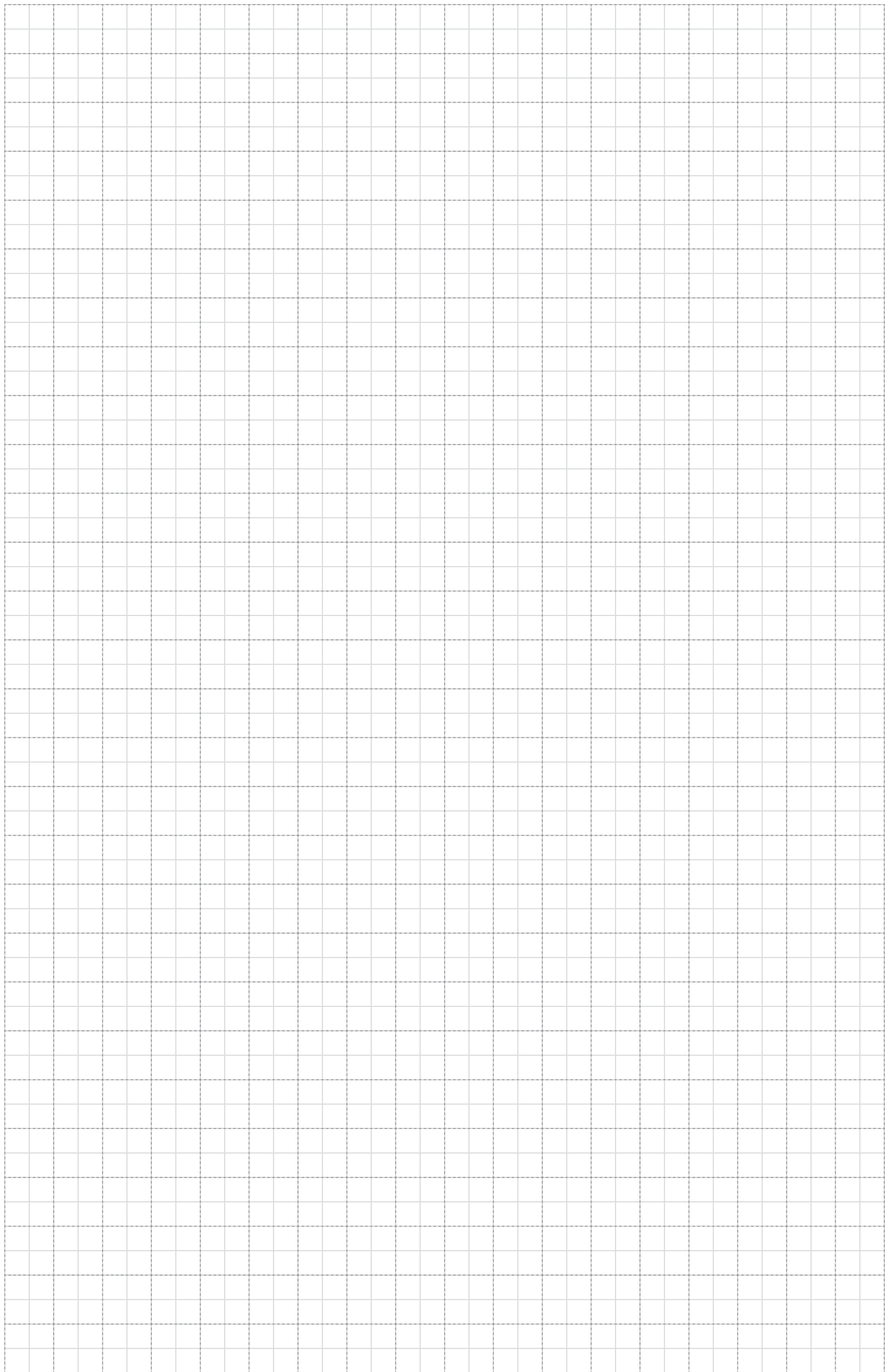
UGEA D adaptor for data-device carriers for GB

	G
	kg
S	
UGEA-D	0,02



PLANNING AND TECHNICAL INFORMATION

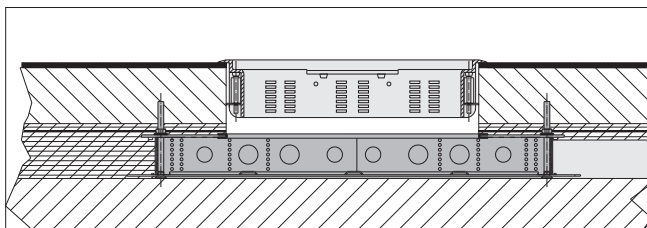
INFORMATION WE NEED	E03
PRINCIPE FOR SCREED COVERED INSTALLATION	E04-E07
ASSEMBLY REQUIREMENTS	E08-E10
FIRE PROTECTION	E11
CABLE ASSIGNMENT	E12-E14
IMPACT NOISE BEHAVIOUR	E15-E17
CASING DEPTH DEVICE CUP INCLUDING INSTALLATION DEVICE	E18-E20
TYPES OF PROTECTION AND FLOOR MAINTENANCE OF INSTALLATION UNITS	E21-E23
DATA TECHNOLOGY	E24-E26





1. Which floor system should be / is used?

- ☐ screed flush
☐ screed-covered
☐ false or hollow space floor



2. Floor construction

height from finished to the concrete floor _____ mm
 floor covering thickness _____ mm
 total floor construction _____ mm
 screed thickness _____ mm



3. Types of screed

- ☐ bonded screed
☐ leveling screed
☐ hot asphalt



4. Resilience of the system

- ☐ office loads
☐ heavy loads



5. Flooring

- ☐ carpet
☐ linoleum
☐ parquet
☐ other: _____
☐ stone
☐ asphalt



6. Cleaning of flooring

- ☐ dry maintained rooms
☐ moist maintained rooms
☐ wet maintained rooms



7. Form of mounting unit

- ☐ round
☐ quadrangular



8. Material

- ☐ stainless steel
☐ plastic



9. Assembly

number of high-voltage installation units _____ pc
 number of data technology installation units _____ pc

Company: _____

Contact person: _____

Phone: _____

E-mail: _____

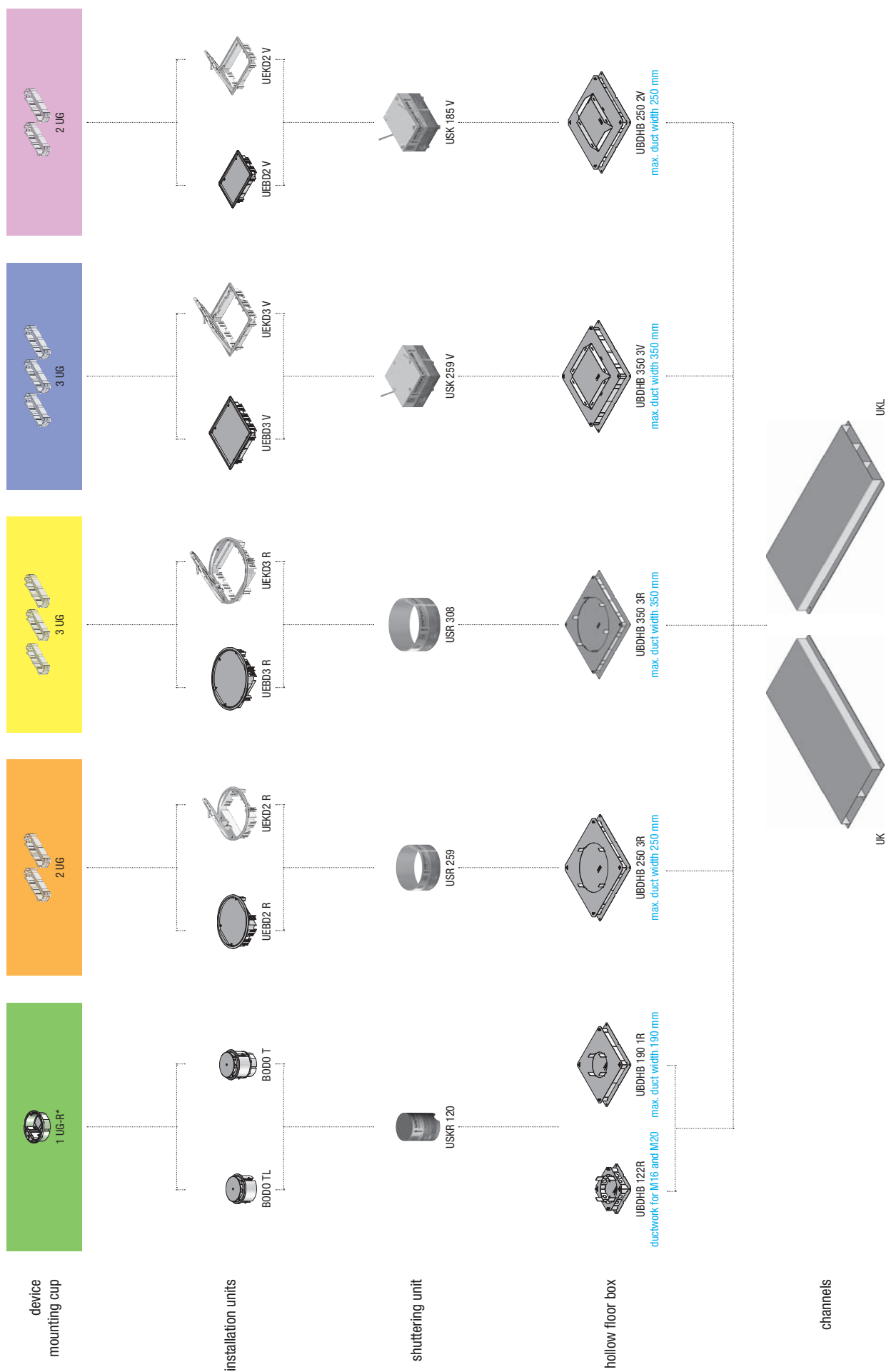
Project: _____

Note: _____

POLYAMIDE INSTALLATION UNITS FOR CARPET FLOORS

TECHNICAL INFORMATION

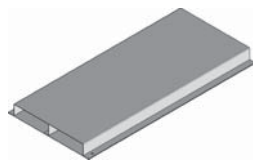
Polyamide installation units for carpet floors



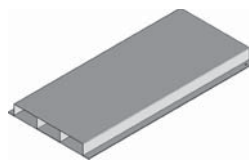
POLYAMIDE INSTALLATION UNITS FOR CARPET FLOORS

TECHNICAL INFORMATION

channels



height	x	width	x
28		190	
38		250	
48		350	



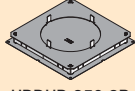
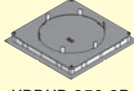
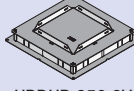
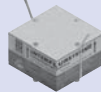
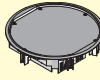
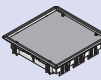
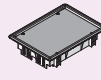
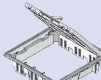
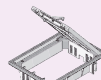
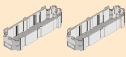
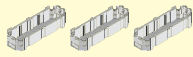
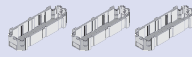
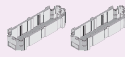
height	x	width	x
28			
38		250	
48		350	

UK, 2-compartments

amount _____ m

UKL, 3-compartments

amount _____ m

Max. duct width	190 mm	250 mm	350 mm	350 mm	250 mm
hollow floor box	 UBDHB 190 1R ☐	 UBDHB 250 2R ☐	 UBDHB 350 3R ☐	 UBDHB 350 3V ☐	 UBDHB 250 2V ☐
installation dimensions	Ø 122 mm	Ø 260 mm	Ø 307 mm	■ 261 mm	■ 186 mm
height			☐ 150 mm ☐ 225 mm	☐ 150 mm ☐ 225 mm	
shuttering unit	 USKR 120 ☐	 USR 259 ☐	 USR 308 ☐	 USK 259 V ☐	 USK 185 V ☐
installation units	 BODO TL cable outlet ☐	 UEBD2 R dummy ☐	 UEBD3 R dummy ☐	 UEBD3 V dummy ☐	 UEBD2 V E dummy ☐
	 BODO T cable outlet (equipped) ☐	 UEKD2 R cable outlet ☐	 UEKD3 R cable outlet ☐	 UEKD3 V cable outlet ☐	 UEKD2 V cable outlet ☐
device mounting cup	 1x UG-R* ☐	 2x UG ☐	 3x UG ☐	 3x UG ☐	 2x UG ☐

Requirements _____ pc(s) _____ pc(s) _____ pc(s) _____ pc(s) _____ pc(s)

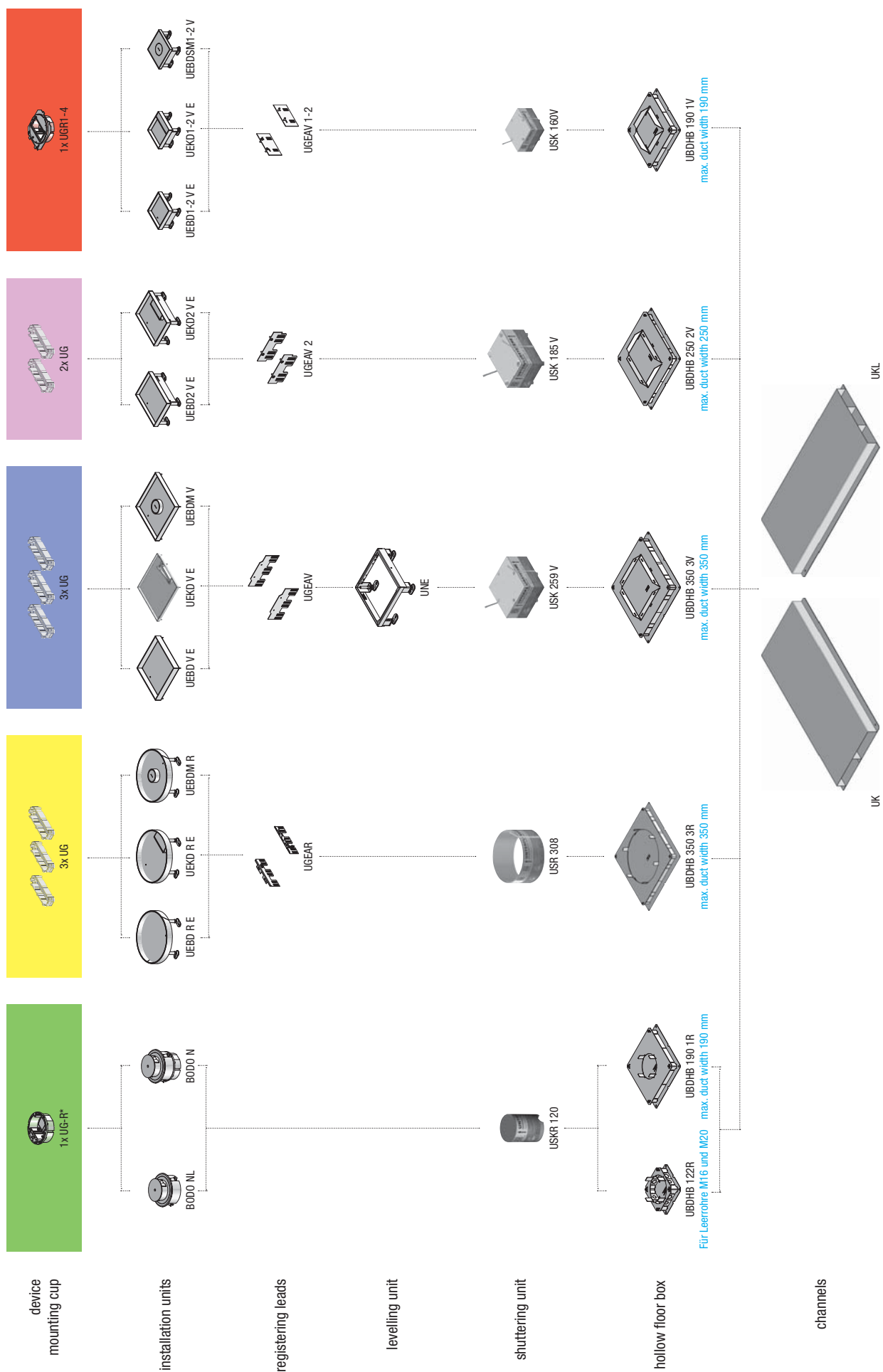
Legend:

- 350 max. duct width, round installation units with 3 device mounting cups UG
- 350 max. duct width, quadrangular installation units with 3 device mounting cups UG
- 250 max. duct width, round installation units with 2 device mounting cups UG
- 250 max. duct width, quadrangular installation units with 2 device mounting cups UG
- 190 max. duct width, round installation units with 1 *device mounting cup UG-R, equipped with a single shockproof socket and a single data system socket

HIGH-GRADE STEEL INSTALLATION UNITS FOR PARQUET AND STONE FLOORS

TECHNICAL INFORMATION

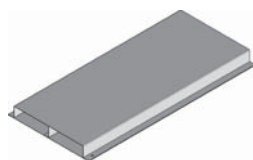
High-grade steel installation units for parquet and stone floors



HIGH-GRADE STEEL INSTALLATION UNITS FOR PARQUET AND STONE FLOORS

TECHNICAL INFORMATION

channels



height	x	width	x
28		190	
38		250	
48		350	



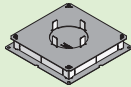
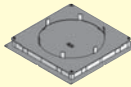
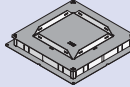
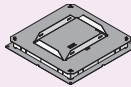
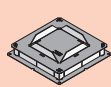
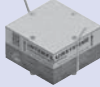
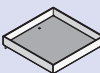
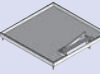
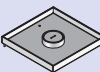
height	x	width	x
28			
38		250	
48		350	

UK, 2-compartment

amount _____ m

UKL, 3-compartment

amount _____ m

Max. duct width	190 mm	350 mm	350 mm	250 mm	190 mm
hollow floor box	 UBDHB 190 1R ☐	 UBDHB 350 3R ☐	 UBDHB 350 3V ☐	 UBDHB 250 2V ☐	 UBDHB 190 1V ☐
installation dimensions	Ø 122 mm	Ø 307 mm	■ 261 mm	■ 186 mm	■ 164 mm
height		☐ 150 mm ☐ 225 mm	☐ 150 mm ☐ 225 mm		
shuttering unit	 USKR 120 ☐	 USR 308 ☐	 USK 259 V ☐	 USK 185 V ☐	 USK 160V ☐
levelling unit			 UNE ☐		
registering leads		 UGEAR ☐	 UGEAV ☐	 UGEAV 2 ☐	 UGEAV 1-2 ☐
height		☐ 15 mm ☐ 35 mm	☐ 15 mm ☐ 35 mm ☐ 25 mm ☐ 45 mm	☐ 15 mm ☐ 25 mm	☐ 15 mm ☐ 25 mm
installation units	 BODO NL cable outlet ☐  BODO N cable outlet (equipped) ☐	 UEBD R E dummy ☐  UEKD R E cable outlet ☐  UEBDM R Tube ☐	 UEBD V E dummy ☐  UEKD V E cable outlet ☐  UEBDM V Tube ☐	 UEBD2 V E dummy ☐  UEKD2 V E cable outlet ☐	 UEBD1-2 V E dummy ☐  UEKD1-2 V E cable outlet ☐  UEBDSM1-2 V Tube ☐
device mounting cup	 1x UG-R* ☐	 3x UG ☐	 3x UG ☐	 2x UG ☐	 1x UGR1-4 ☐
Requirements	_____ pc(s)	_____ pc(s)	_____ pc(s)	_____ pc(s)	_____ pc(s)

Legend:

■ 350 max. duct width, round installation units with 3 device mounting cups UG; ■ 350 max. duct width, quadrangular installation units with 3 device mounting cups UG; ■ 250 max. duct width, quadrangular installation units with 2 device mounting cups UG; ■ 190 max. duct width, round installation units with 1 *device mounting cup UG-R, equipped with a single shockproof socket and a single data system socket; ■ 190 max. duct width, quadrangular installation units with 1 *device mounting cup UGR1-4



E

Structural requirements

In order to be able to start installing an underfloor duct system, the following requirements must be fulfilled:

- approved dimensioned installation plan, specifying the location of all assembly parts
- project piece list with the materials to be used
- documents providing information on floor construction and floor covers
- an approved, clean and swept slab 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 sub-sonic 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 carrying 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 the application of screed.
- The system elements must be firmly fixed to the slab ceiling.
- The mounted duct system may 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, the area must be locked.
- 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.

The observation 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 the 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 shuttering unit, the following must be observed:

- 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 deployable:

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 included 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.

ASSEMBLY REQUIREMENTS

TECHNICAL INFORMATION

Appendix 1: Excerpt from DIN 18560-2:2009-09

Table 1 – Nominal thicknesses and bending tensile strength or hardness of unheated screed on insulation layers¹ 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 $\leq 5 \text{ mm}^c$ $\leq 5 \text{ mm}^b$	Confirmatory test Bending tensile strength β_{Bz} [N/mm ²]		Depth of penetration [mm]	
			Lowest single value	Medium value	at (22 ± 1) °C	at (40 ± 1) °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 undercut (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, panelling, 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 for 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 long time period, 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 observed.

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 given.

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.“

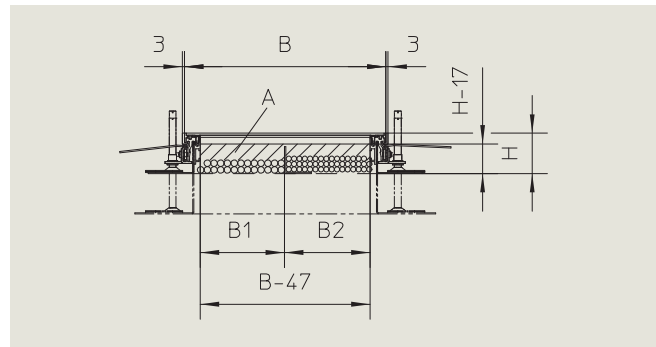
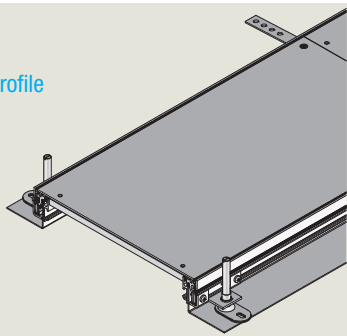
In this context it must be observed that hollow floors must have a minimum screed thickness of 30 mm over underfloor duct.

CABLE ASSIGNMENT IN DUCT

TECHNICAL INFORMATION

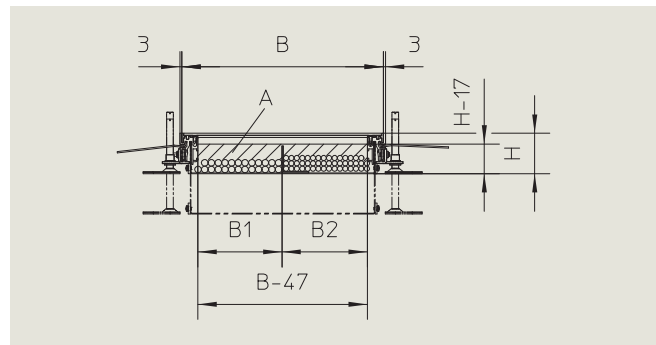
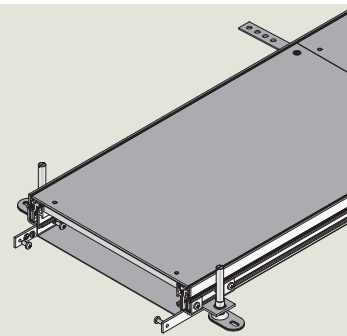
UEBS

screed-flush duct with side profile



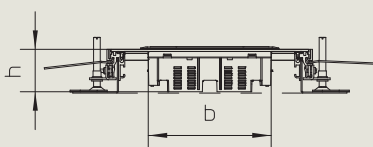
UEBSMSW

screed-flush duct with tub



	H -17 [mm]	B -47 [mm]	A [cm ²]	B[mm]	B1 [mm]	B2 [mm]	B1 / power circuit line 3 x 2,5mm ²		B2 / data line Cat.6	
							Number Ø 10 [mm]	pay cross section [cm ²]	Number Ø 8 [mm]	pay cross section [cm ²]
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

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

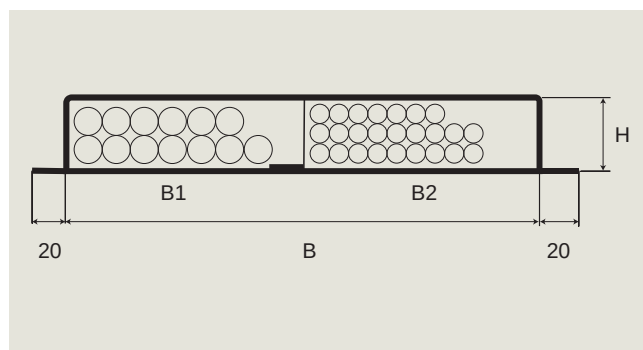
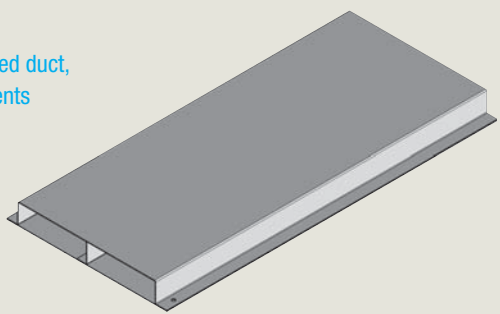
The calculation of the cable volume is the groundwork for the planning process. The cross sections of the selected standard duct types are average values. The calculation is based on a duct filling factor of no more than 60%. Allow for a reduction in the cross-section by the installation depth of device cup and installation unit. For current load see DIN VDE 0100/0298.

CABLE ASSIGNMENT IN DUCT

TECHNICAL INFORMATION

UK

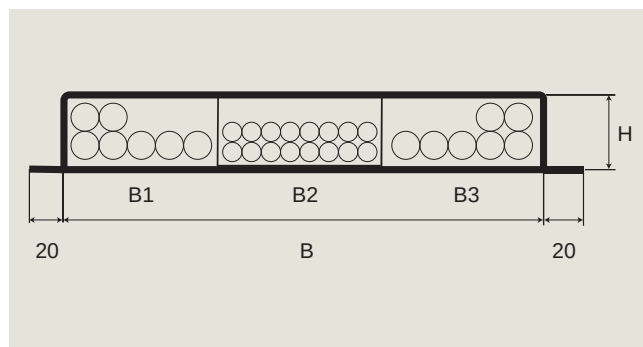
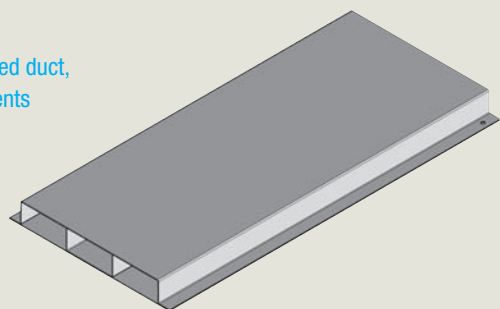
screed covered duct,
2 compartments



	H [mm]	B [mm]	A [cm ²]	B1 [mm]	B2 [mm]	B3 [mm]	B1 / power circuit line 3 x 2,5mm ²		B2 / data line Cat.6	
							Number Ø 10 [mm]	pay cross section [cm ²]	Number Ø 8 [mm]	pay cross section [cm ²]
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

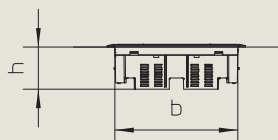
UKL

screed covered duct,
3 compartments



	H [mm]	B [mm]	A [cm ²]	B1 [mm]	B2 [mm]	B3 [mm]	B1 & B3 / power circuit line 3 x 2,5mm ²		B2 / data line Cat.6	
							Number Ø 10 [mm]	pay cross section [cm ²]	Number Ø 8 [mm]	pay cross section [cm ²]
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

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

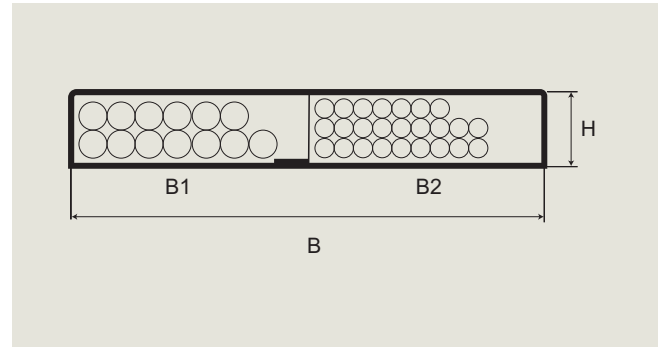
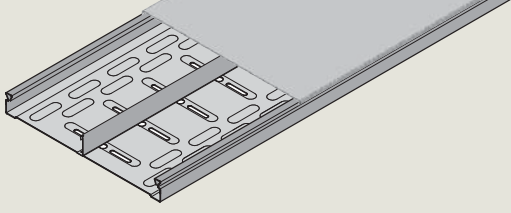
The calculation of the cable volume is the groundwork for the planning process. The cross sections of the selected standard duct types are average values. The calculation is based on a duct filling factor of no more than 60% with a floor box space of max. 8m. Allow for a reduction in the cross-section by the installation depth of device cup and installation unit. For current load see DIN VDE 0100/0298.

CABLE ASSIGNMENT IN DUCT

TECHNICAL INFORMATION

UKR 2

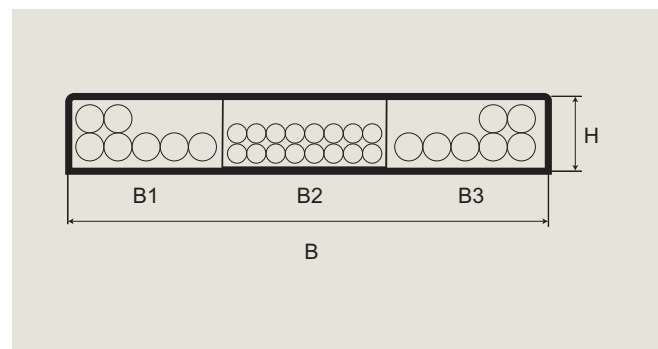
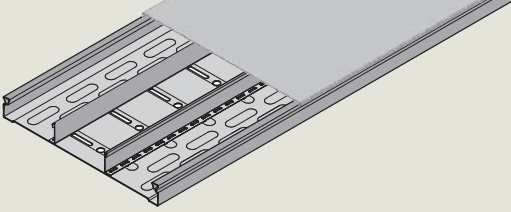
cable duct bottom piece
2 compartments



	H [mm]	B [mm]	A [cm ²]	B1[mm]	B2 [mm]	B3 [mm]	B1 / power circuit line 3 x 2,5mm ²		B2 / data line Cat.6	
							Number Ø 10 [mm]	pay cross section [cm ²]	Number Ø 8 [mm]	pay cross section [cm ²]
UKR 35-30S	35	300	105	149	149		31	1	49	0,64

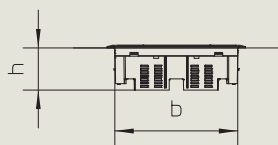
UKR 3

cable duct bottom piece
3 compartments



	H [mm]	B [mm]	A [cm ²]	B1[mm]	B2 [mm]	B3 [mm]	B1 & B3 / power circuit line 3 x 2,5mm ²		B2 / data line Cat.6	
							Number Ø 10 [mm]	pay cross section [cm ²]	Number Ø 8 [mm]	pay cross section [cm ²]
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

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

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%. Allow for a reduction in the cross-section by the installation depth of device cup and installation unit. For current load see DIN VDE 0100/0298.

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



receiving room

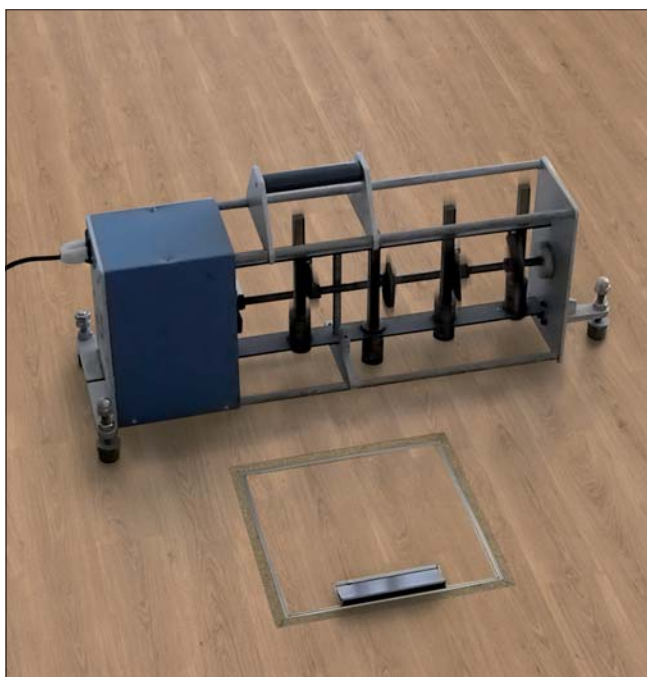
To evaluate the subsonic noise behaviour of screed-covered installation ducts in constructed buildings, measurements according to DIN 52210-2 with standard flanking transmissions according to DIN EN ISO 140-7 were completed in a test facility. A standardised forge initiated structure-borne noise in the 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.

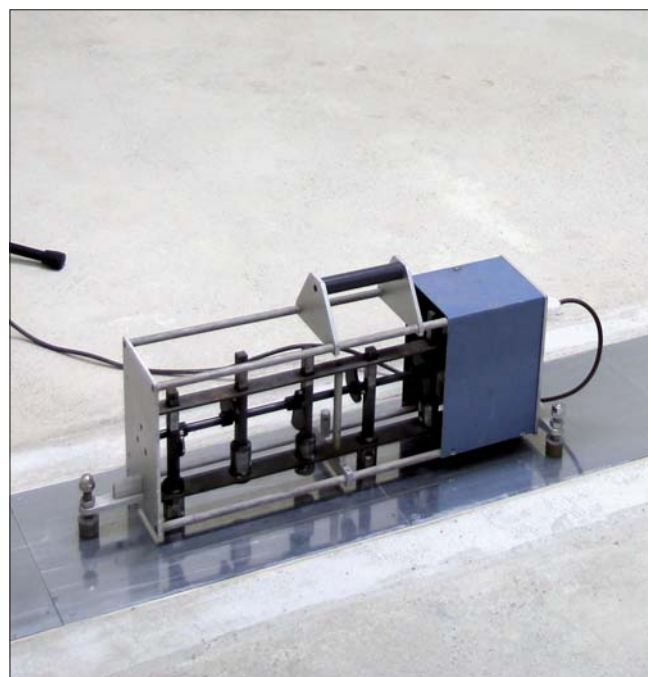
The reduction of subsonic noise ΔL_w equals the difference between the standard subsonic noise of a floor with and without floor cover. However, the reduction of subsonic noise must be at least effective enough to ensure that the required standard subsonic noise in office buildings is not exceeded. The 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)



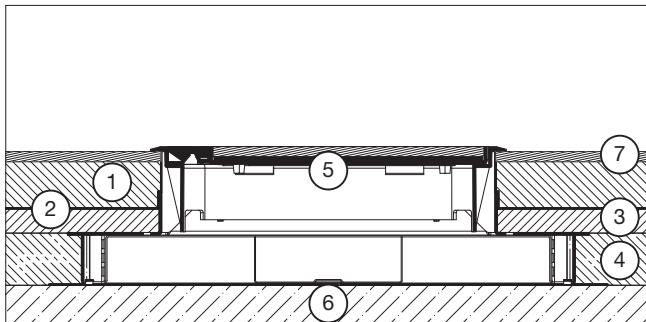
broadcasting room



broadcasting room

Noise protection when using screed-covered underfloor duct systems

Test with duct UKL, hollow space floor box UBDHB350 V and with plastic installation unit UEKD3 V, quadrangular

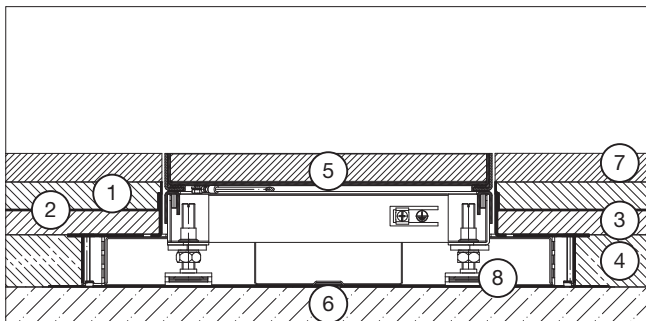


Test setup

	ΔL_w	$L'_{n,w}$
Duct system installed in floating screed, stimulation on screed	29 dB	52 dB
Duct system installed in floating screed, stimulation on screed with textile floor cover	40 dB	41 dB
Duct system installed in floating screed, stimulation on installation unit with textile floor cover	46 dB	35 dB

Results according to test report 13-840 from March 2014

Test with 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	$L'_{n,w}$
Duct system installed in floating screed, stimulation on high-grade steel installation unit with parquet floor cover	28 dB	53 dB
Duct system installed in floating screed, stimulation on high-grade steel installation unit with parquet floor cover, decoupling over the rubber sleeve	31 dB	50 dB

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



broadcasting room

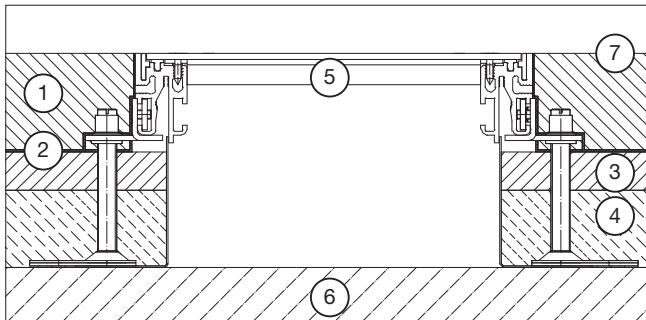
Test results with screed-covered underfloor duct systems

The results of the tests with all proper applications show that the PUK 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.

Impact noise insulation for screed-flush underfloor duct systems

Test with duct UEBS and a outboard leveling

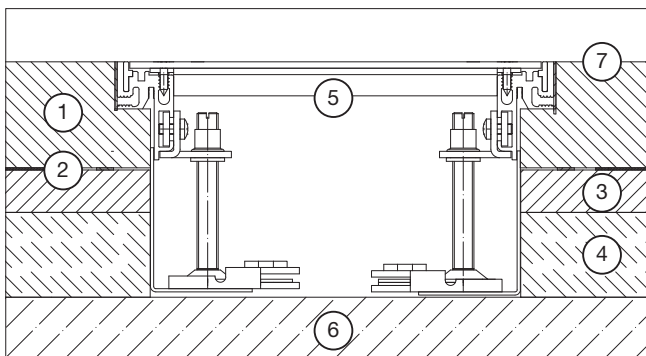


Test setup

	ΔL_w	$L'_{n,w}$
Duct system installed in floating screed, stimulation on screed and duct	28 dB	53 dB
Duct system installed in floating screed, stimulation on screed and duct with linoleum	33 dB	48 dB
Duct system installed in floating screed, stimulation on screed and duct with textile floor cover	40 dB	41 dB

Results according to test report 13-840 from March 2014

Test with duct UEBS and a internal leveling



Test setup

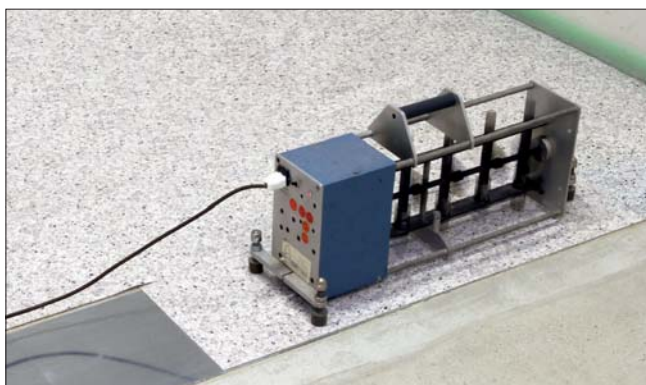
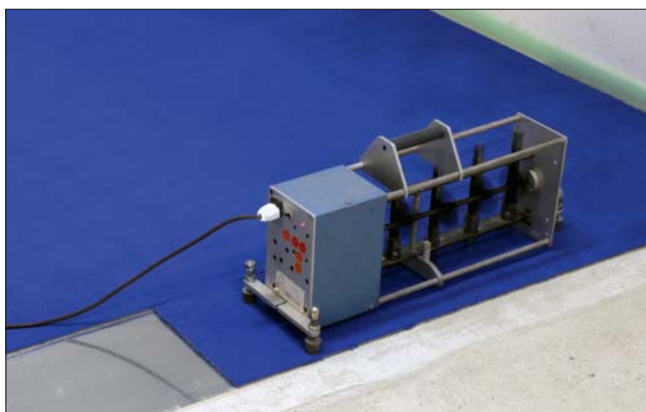
	ΔL_w	$L'_{n,w}$
Duct system installed in floating screed, stimulation on screed and duct without decoupling	28 dB	53 dB
Duct system installed in floating screed, stimulation on screed and duct, decoupling over the rubber sleeve	29 dB	52 dB
Duct system installed in floating screed, stimulation on screed and duct, decoupling suspended without leveling	30 dB	51 dB

Results according to test report 13-840 from March 2014

Setup:

- | | | |
|--|--------------------------------|---|
| 1. 50 mm cement screed | 4. 40 mm heat insulation plate | 7. floor cover (carpet 8,0 mm, linoleum 2,8 mm) |
| 2. 1 mm foil | 5. screed-flush duct UEBS | |
| 3. 20 mm impact sound insulation plate | 6. 160 mm concrete slab | |

$L'_{n,w}$ = 81 dB stimulation on concrete slab
 $L'_{n,w}$ = 50 dB stimulation on screed, without installations



Test results with screed-flush underfloor duct systems

The results of the tests with all proper applications show that the screed-flush PUK 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 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.

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

General Requirements

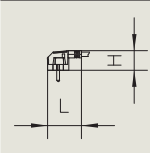
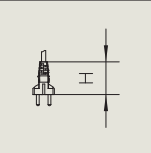
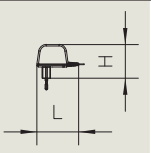
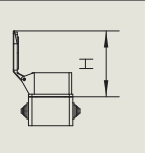
For underfloor electrical installation duct systems, the height of the floor construction primarily determines the tolerance for the installation of the installation unit, device cup and installation equipment.

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 used condition. Thereby the required minimum system installation height for the use of angled or straight connectors of data, respectively power technology, is derived.

Technical specifications

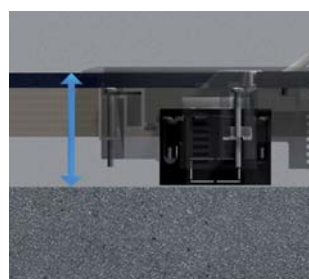
Minimum installation depths of PUK system components

The minimum installation depths we calculated refer to the minimum size of the common market connectors for power engineering shown in the illustrations.

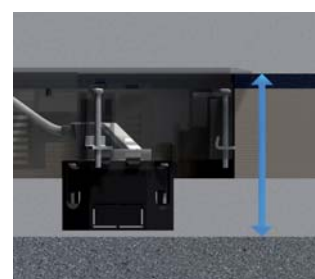
angled connector	straight connector	adapter	CEE socket
			
H = 33 mm L = 58 mm	H = 55 mm	H = 58 mm L = 71 mm	H = 112 mm

The use of locked-in leads in the corresponding installation units made of plastic material and stainless steel allows for a stepwise lowering of the installed devices 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 used. 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

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 cannot be locked in due form in used condition.



CEE socket with angled connector



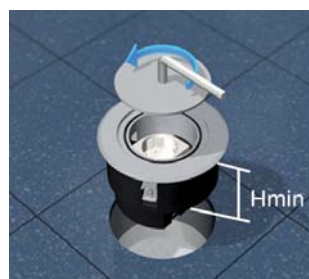
CEE socket with straight connector

The floor power sockets BODO require the following minimum installation heights:

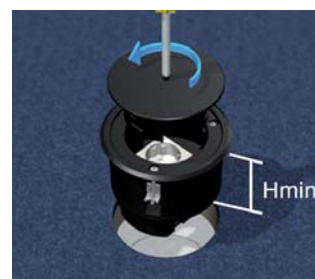
BODO N: minimum installation height (H_{min}) = 87 mm

BODO T: minimum installation height (H_{min}) = 102 mm

In order to guarantee a safe and non-slip surface, angled as well as straight connectors can be used.

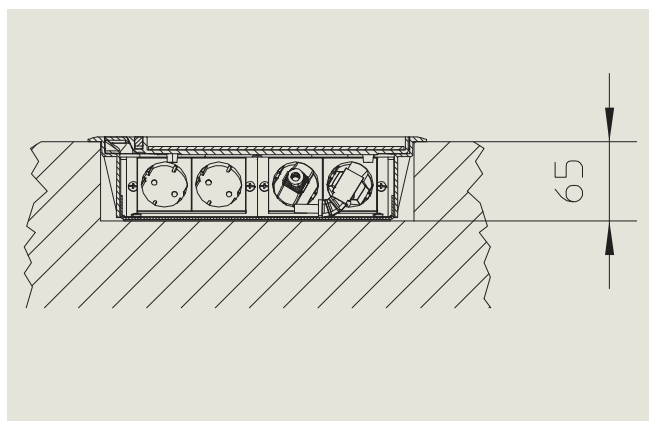


BODO N

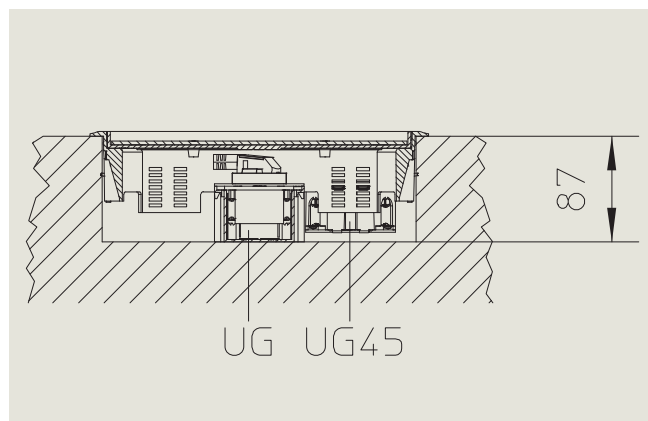


BODO T

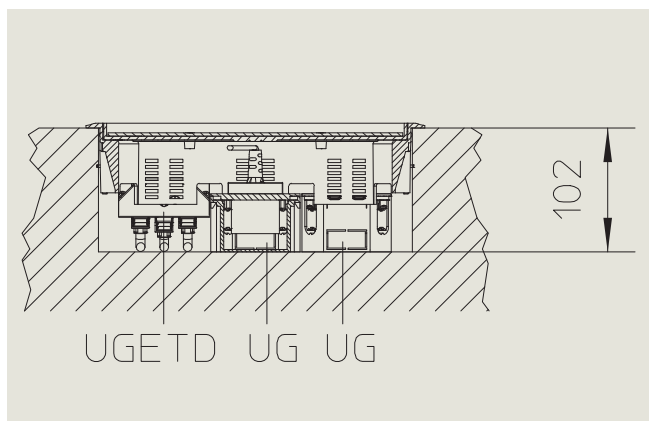
Casing depth device cup including installation device in plastic installation units



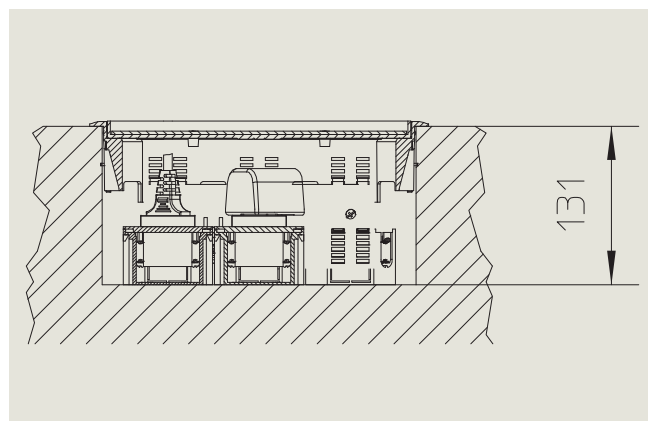
A head space > 65 mm between raw ceiling and floor cover surface is needed for coupler plugs in device insert.



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 10mm Ø is being observed, the resulting minimal installation depth of the device carrier UGETD is > 120mm 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.

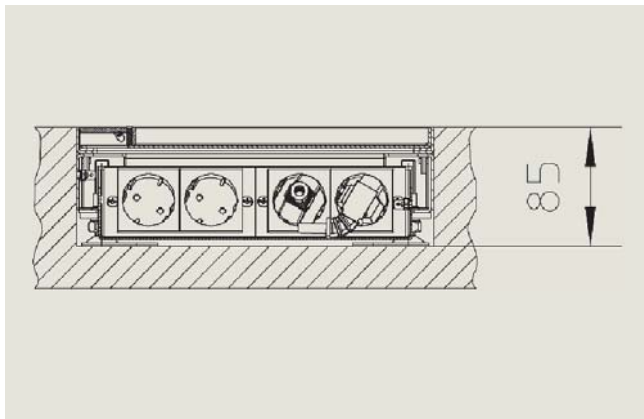
Please observe the above specified dimensions for floor construction!

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.

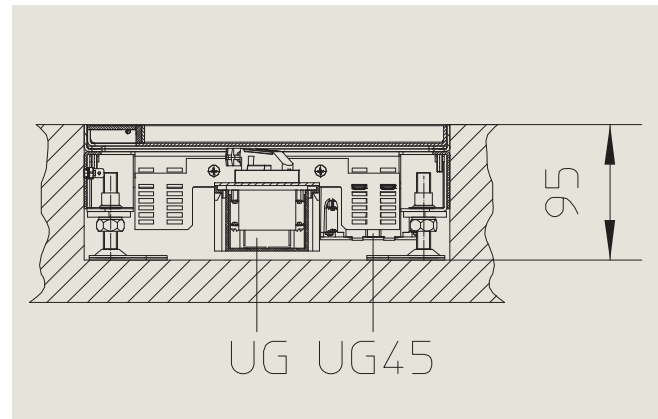
CASING DEPTH DEVICE CUP INCLUDING INSTALLATION DEVICE

TECHNICAL INFORMATION

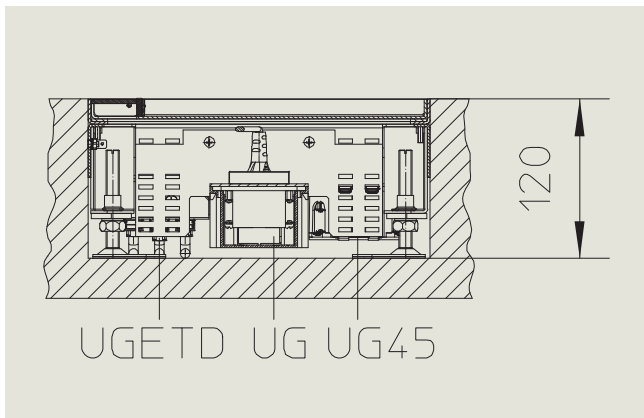
Casing depth device cup including installation device in square stainless steel installation units



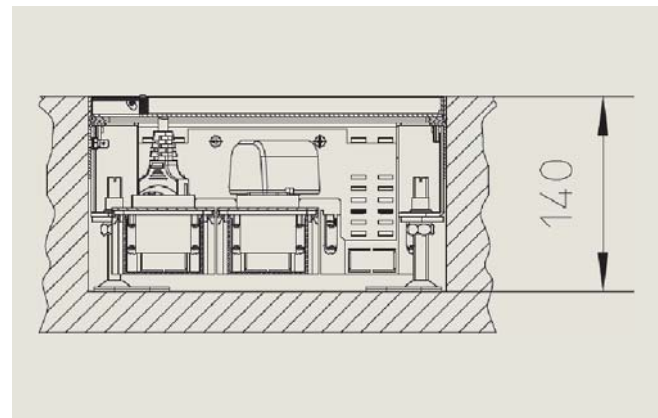
If coupler plugs are used in the device insert, a tolerance of > 85 mm is needed from the upper edge of the floor cover to the slab ceiling.



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 10mm $\varnothing$ is being observed, 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.

Please observe the above listed measure instructions for the floor construction!
A fitting into round stainless steel installation units may require higher installation depths.

Please note that with stainless steel units, the depth of the floor cover inside the cover applies to floor covers of up to 12 mm. The following minimum installation depths apply to quadrangular stainless steel units.

General Requirements

The testing of the type of protection for underfloor cable 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 used condition the cable exits are placed at least 10 mm above the floor surface.

Technical exemplifications

Kennzeichnung

All PUK installation units are labelled according to DIN EN as follows:



Trockenreinigung

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 (see page 4), and the specification of protection type is based on classification (see page 3).

Application recommendations

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 in regular intervals.

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 of 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. Only if the above instructions are followed, it can be ensured that the underfloor electric installation is protected from harmful effects during standard use.

The types of casting protection are specified in the standards 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.

Illustration based on DIN EN 60529, IEC 60529

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

The application of the damp-wipe-method requires smooth floor covers.

Wet mopping

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.

Damp 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.

Damp 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.

(Excerpt from the cleaning methods based on the definitions of commercial cleaning)

mounting boards UDEP for
device carrier UGETD

device carrier UGET 113 for
device mounting cup UG

manufacturer

mounting

light wave technology



UDEP-SCD 4



UGET-3-SCD 113

SC-Duplex



UDEP-SCS 4



UGET-3-SCS 113

SC-Simplex
LC-Duplex



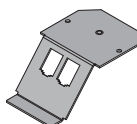
UGET-2-LCDM 113

LC-Duplex multimedia

data technology



UDEP-BTR 3



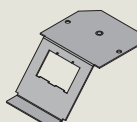
UGET-2-BTR 113

BTR
BTR
BTR
BTR
BTR
Dätwyler
Leoni Kerpen

E-DAT module Cat.6 8(8)
E-DAT module Kupplung 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 screened
VarioKeystone® socket module RJ45 or 4K7 or 4K6



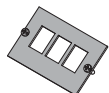
UDEP-COR 3



UGET-2-COR 113

Corning
Corning
Corning
Corning

FutureCom™ S10™ module Kat. 6, LANscape®
FutureCom™ S500 module Kat. 6, LANscape®
FutureCom™ S250 module Kat. 6, LANscape®
FutureCom™ S100e module Kat. 5e, LANscape®



UDEP-HAR 3

Harting
Harting

Ha-VIS PreLink RJ45 socket Keystone module Cat6
Ha-VIS RJ45 socket Keystone set AWG22/23 Cat6



UDEP-AMP 3



UGET-2-AMP 113

TE Connectivity
Corning
Siemon

AMP
FutureCom™ S1200 module Kat.7, LANscape®
TERA® 4-Pair Outlet



UDEP-AMP SL3



UGET-2-AMPSL 113

TE Connectivity
TE Connectivity
TE Connectivity

AMP-TWIST 7_A S SL Jack
AMP-TWIST 6_A S SL Jack
AMP-TWIST 6S SL Jack



UDEP-GG45 3



UGET-2-GG45 113

3M Deutschland GmbH
3M Deutschland GmbH
3M Deutschland GmbH
Brand-Rex
Brand-Rex
Dätwyler
Nexans
Nexans

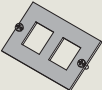
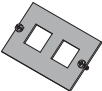
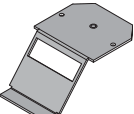
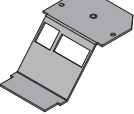
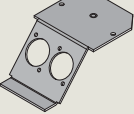
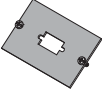
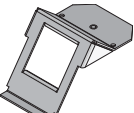
3M Volition RJ45 connecting module CAT6A PL 180
3M Volition K6 RJ45 connecting module STP, individually screened
3M Volition K6 RJ45 connecting module STP, without screen cover
10GPlus CAT6_A screened module, Tool-free AC6JAKS000
Cat6Plus screened module, Tool-free C6CJAKS000
Unilan PS-GG45 7A 1000 MHz with clip
LANmark EVO module bis Cat.6_A with Keystone clip blue
LANmark GG45 module Cat.7/7_A with metal clip

mounting boards UDEP for
device carrier UGETDdevice carrier UGET 113 for
device mounting cup UG

manufacturer

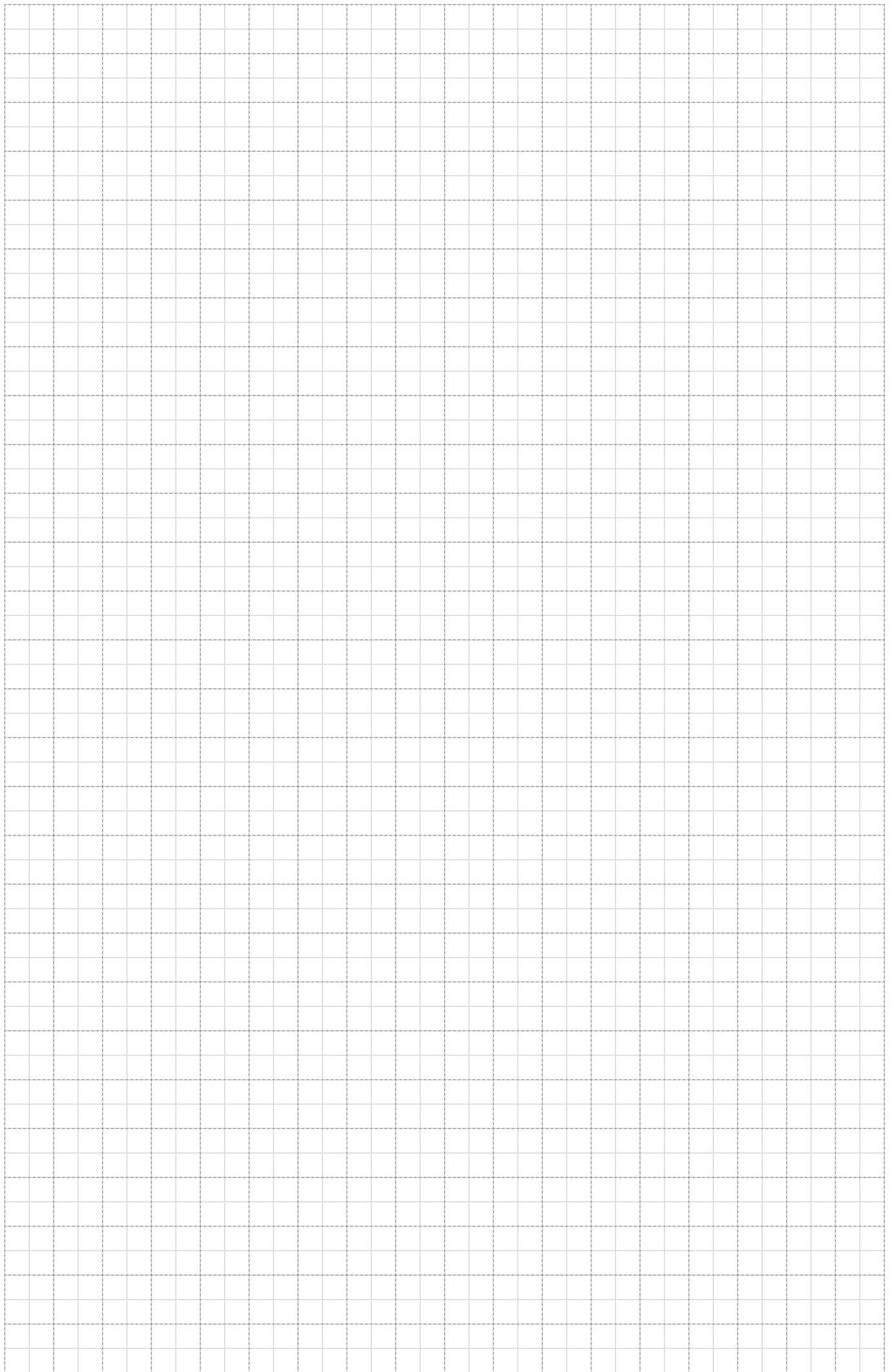
mounting

data technology			
		TE Connectivity TE Connectivity TE Connectivity TE Connectivity Brand-Rex Brand-Rex CobiNet CobiNet CobiNet CobiNet Corning Corning Corning Dätwyler Dätwyler ECOLAN EFB EFB eku Kabel & Systeme eku Kabel & Systeme Leoni Kerpen Leoni Kerpen R&M R&M R&M R&M R&M Rutenbeck Rutenbeck Telegärtner Telegärtner	KRONE RJ45 STP KM8® Modular Jack Cat.6 _A KRONE RJ45 STP KM8® Modular Jack Cat.6 KRONE RJ45 UTP Modular Jack Cat.6 _A not screened KRONE RJ45 UTP KM8® Modular Jack Cat.6 not screened 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-Modul TopKey FutureCom™ xs500 module Kat. 6 _A , Keystone FutureCom™ S500 module Kat. 6 _A , Keystone FutureCom™ S10TENE module Kat. 6 _A , Keystone Unilan MS-K 1/8 socket module Unilan KS-T 1/8 socket 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 /6A MegaLine® Connect45 BM Keystone LEO Kat. 6 _A /6A 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 universal module UM-Cat.6A iso A, Keystone variantc universal module UM-real Cat.6 U A, not screened, Keystone variant AMJ-module K Cat.6 _A AMJ-S-module Cat.6 _A
		R&M R&M R&M	connecting module, Kat.6, Real 10, 1xRJ45/s, (module receiving required) connecting module, Kat.5, 1xRJ45/s, (module receiving required) module receiving RJ45 / E-2000™-Compact / SC-RJ / universal adapter
		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
		Brand-Rex Brand-Rex CobiNet CobiNet CobiNet CobiNet Corning Corning Corning Dätwyler Dätwyler ECOLAN EFB EFB eku Kabel & Systeme eku Kabel & Systeme Leoni Kerpen Leoni Kerpen R&M R&M R&M R&M R&M Rutenbeck Rutenbeck Telegärtner Telegärtner	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™ S10TENE module Kat. 6 _A , Keystone Unilan MS-K 1/8 socket module Unilan KS-T 1/8 socket 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 /6A MegaLine® Connect45 BM Keystone LEO Kat. 6 _A /6A 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 connecting module UM-Cat.6A iso A, Keystone variant connecting module UM-real Cat.6 U A, not screened, Keystone variant AMJ-Modul K Cat.6 _A AMJ-S-Modul Cat.6 _A

mounting boards UDEP for device carrier UGETD	device carrier UGET 113 for device mounting cup UG	manufacturer	mounting
data technology			
 UDEP-KEL 3		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-SYS 2		Systimax Systimax	MPS 100E cat5, MPS S200E (required: Systimax mounting frame type: M30MC) MGS 300, MGS 400, MGS 500X10D, MGS 600X10D (required: Systimax mounting frame type: M30MC)
 UDEP-LEX 2		LexCom LexCom	LexCom® 125 (required: LexCom mounting frame) LexCom® 250 (required: LexCom mounting frame)
plug-in systems			
 UDEP-5PK 1	 UGET-1-5PK 113	WAGO	WINSTA® MIDI Snap-In sockets or plugs 5-pole
 UDEP-5PCOM 1	 UGET-1-5PCOM 113	WAGO	Snap-In socket X-COM, 5-pole, 500V, 32 A
 UDEP-3PK 2	 UGET-2-3PK 113	Wieland	Snap-In sockets or plugs 2-pole (EIB-Bus) and 3-pole (net)
audio- / video technology			
 UDEP-KM 1	 UGET-2-KM 113	Kindermann Kindermann	connecting cover 25 x 50 mm (UDEP-KM 1) connecting cover 50 x 50 mm (UGET-2-KM 113)
 UDEP-XLR 2	 UGET-2-XLR 113	Neutrik	D Serie, DL Serie, DLX Serie
 UDEP-DSUB9 1			D-Sub 9
installation units, pre-snap-in			
	 UGET-1-UST45 113	PEHA Legrand Simon	2 x 22,5 x 45 mm or 1 x 45 x 45 mm

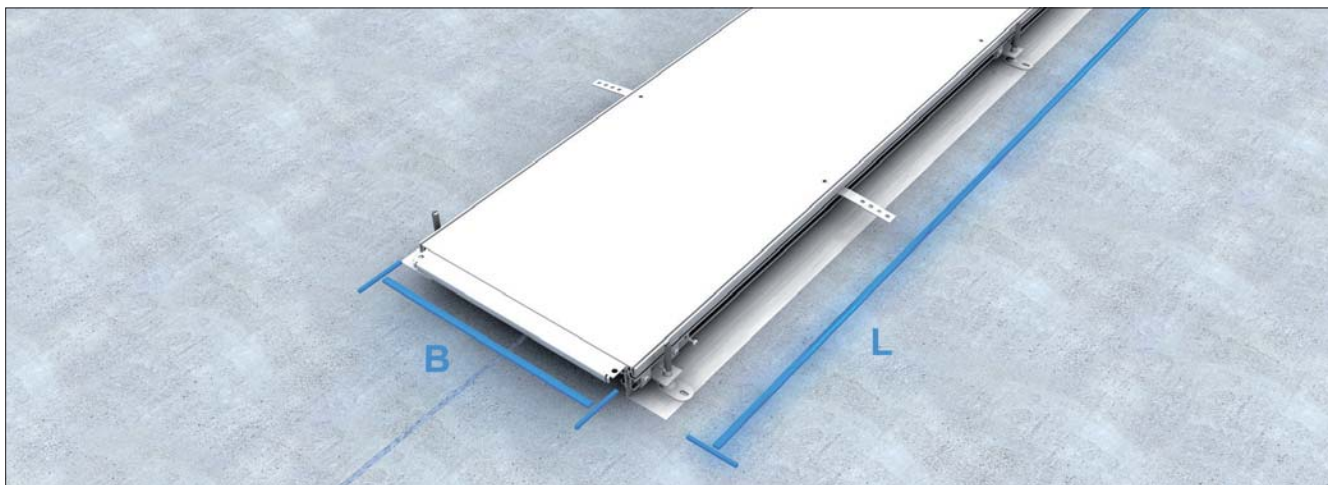
ASSEMBLY

SCREED FLUSH DUCT	F03-F06
SCREED FLUSH HEAVY-DUTY DUCT	F07-F08
HOLLOW SPACE FLOOR BOX	F09-F10
FIRE PROTECTION FOR SCREED-COVERED UNDERFLOOR SYSTEMS	F11-F12
SCREED-COVERED CABLE DUCT	F13-F14
INSTALLATION UNIT MADE OF PLASTIC	F15-F18
SHUTTERING UNITS	F19-F20
CARTRIDGE UNITS MADE OF HIGH-GRADE STEEL	F21-F22
HEAVY-DUTY CARTRIDGE UNITS MADE OF HIGH-GRADE STEEL	F23
CARTRIDGE INSTALLATION UNITS MADE OF HIGH-GRADE STEEL	F24-F25
SINGLE OUTLETS	F26-F30
DEVICE MOUNTING CUP UG45	F31-F32
CONNECTOR SYSTEMS	F33-F34
DATA-DEVICE CARRIERS	F35
DEVICE CARRIER CEE SOCKET	F36
DEVICE INSERTS	F37-F38



SCREED FLUSH DUCT

ASSEMBLY INSTRUCTIONS

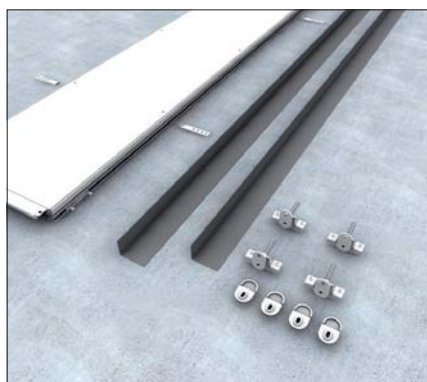


Pre-assembled screed flush duct UEBS with four dummy covers in nominal widths $B = 200, 300$ and 400 mm made of steel plate, with a length L of 2000 mm. Optional in the levelling areas $60-110$ mm and $100-150$ mm. In three systems. Steel plate side panel as the basic version, synthetic side panels for impact noise isolation and as a closed base tub for EMV cable routing.



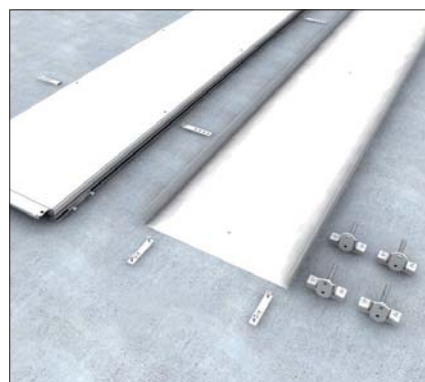
UEBS with steel plate side panel

Necessary mounting material in addition to the UEBS with steel plate side panel: 1x side panel set UEBSMSP S and 4x levelling units UEBSST.



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.



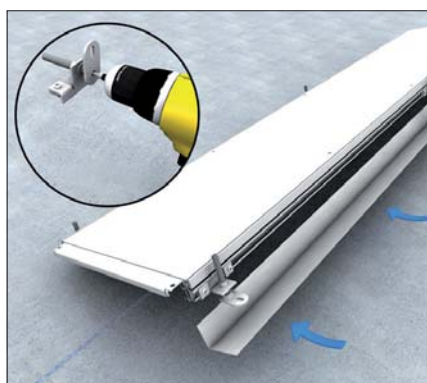
UEBS with tub

Mounting material needed in addition to UEBS with steel plate tub: 1x base tub UEBSMSW and 4x levelling units UEBSST.



Duct alignment

Measure the duct course according to the approved layout drawing and mark it using a plumb line. Lay pre-assembled duct according to duct course and marking. Record binding height metre point.



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.

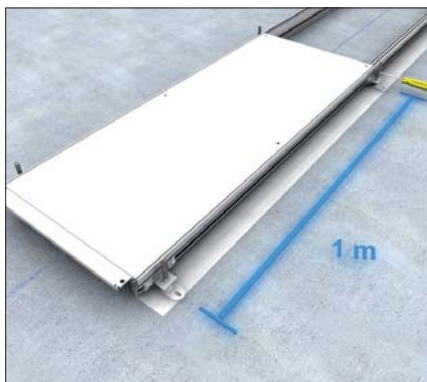


Duct piece assembly

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 factory-provided.

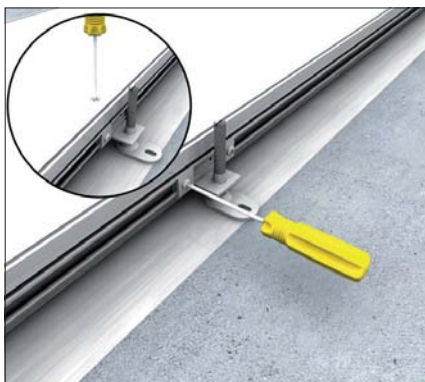
SCREED FLUSH DUCT

ASSEMBLY INSTRUCTIONS



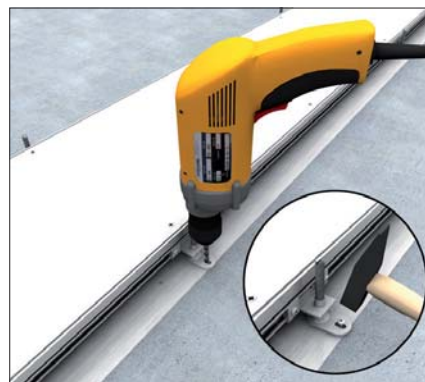
Positioning the levelling units

Position levelling units according to the course of the duct at intervals of one metre and screw them to the aluminium profile. Observe the levelling unit height of 80, respectively 150 mm. Firmly connect together all metal parts of the duct system.



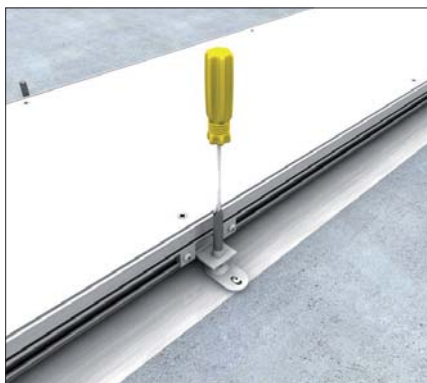
Mounting the duct

Screw levelling units so that they overlap with both duct pieces. While doing so, observe that the dummy cover must be tightly connected with the closest following duct part by means of a cross beam.



Plugging of the levelling foot

Align levelling on the side wall and drill a hole. Fasten levelling feet firmly to the rough concrete using nail plugs.



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.



Mounting the separating panels

Plug the synthetic separating panels directly into the rough concrete in 1-metre-intervals.



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.



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.



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.



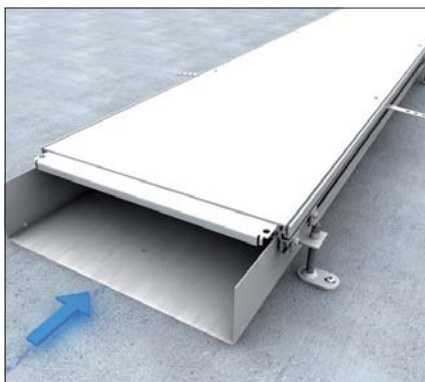
High levelling of 100-150mm

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.



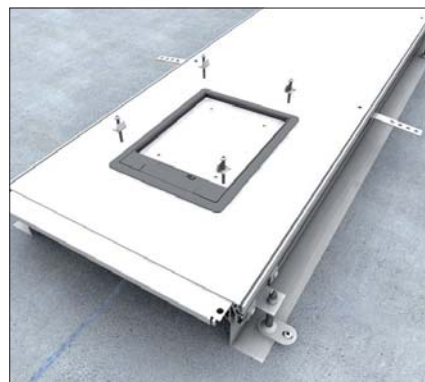
Impact sound decoupling

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.



Tube mounting

When using a floor tube, the required levelling height must be observed. 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.



Assembly covers

After the assembly of the duct system, the corresponding dummy covers must be exchanged for assembly covers for installation units and adjusted to the duct course. To mount installation units, use special claws with a clamping range of at least 2 mm.



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.



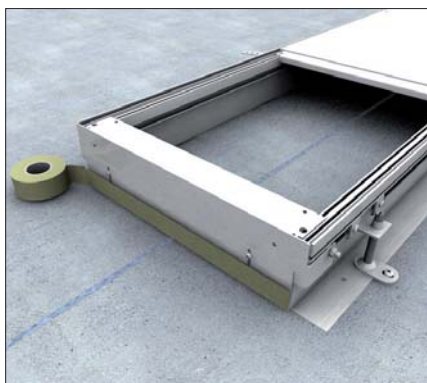
Carpet edge

According to delivery condition, the turnable carpet protection edge is embedded in the screed-flush duct, flush with the duct. If needed, it can be turned, creating a 3 mm floor cover edge.



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.



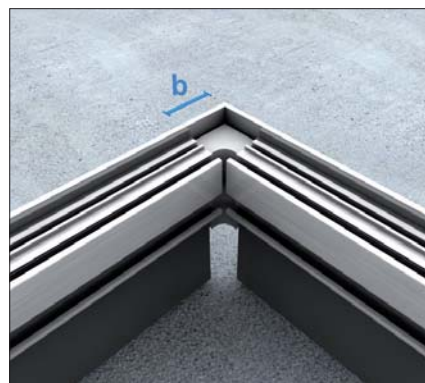
End piece

Insert the end piece into the duct profile sideways 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.



Accessory set hollow space floor box

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. Mount hollow space floor box on the rough concrete and insert shuttering unit.

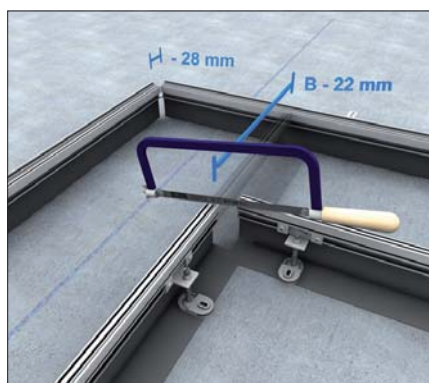


Corner connection

The synthetic corner connection (b = 26 mm) is for making a formed part during assembly. After cutting the duct profile, insert the connection into it and screw together using the steel plate corner connection. Depending on the rotating direction, the corner connection can be used as an inside or outside corner.

SCREED FLUSH DUCT

ASSEMBLY INSTRUCTIONS



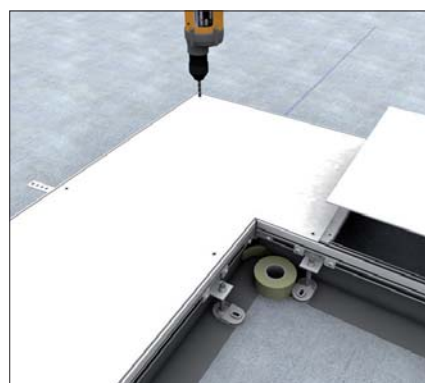
Cutting a 90° bend

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.



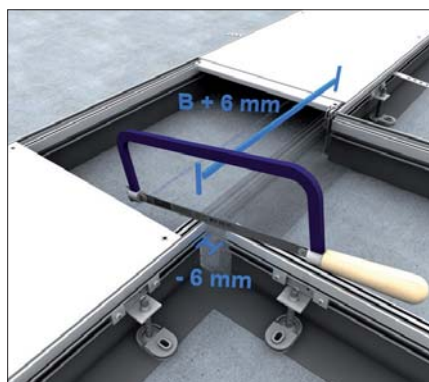
Mounting a 90° bend

Push duct pieces together and link together using the separately supplied bend assembly set. Then screw together using the corner connection.



90° bend final assembly

Cut cover sections and if needed, ream mounting holes. Insert cross beam for support. Slide in carpet protection edge, 3 mm overlaying in the corners, and mark open areas. Cover and screw duct section.



Cutting the 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.



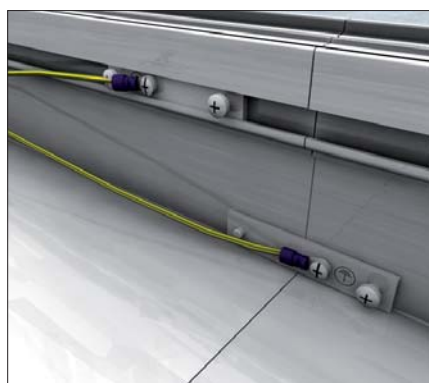
Mounting the T-junction

Push duct pieces together and link together using the T-junction assembly set included in the delivery. Then screw together using the corner connection. In order to create an intersection, use 2 T-junction assembly sets.



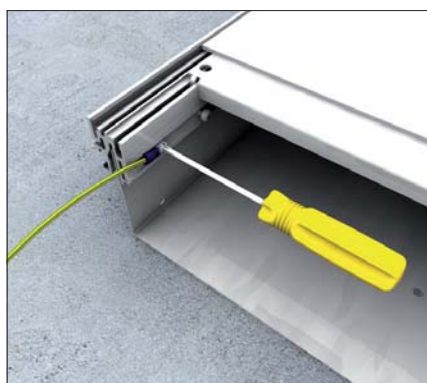
T-junction final assembly

Cut cover, ream mounting holes and insert cross beam. Slide in carpet protection edge, 3 mm overlaying in the corners, and mark open areas. Cover and screw duct. Do not lay dummy cover joints in junction areas.



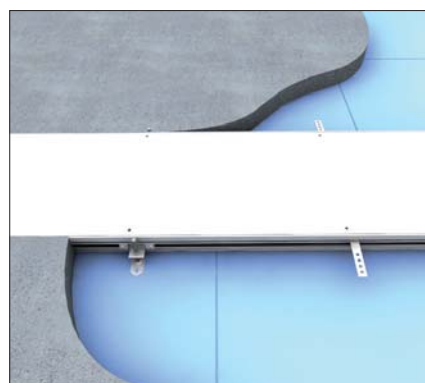
Duct tub grounding

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.



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.



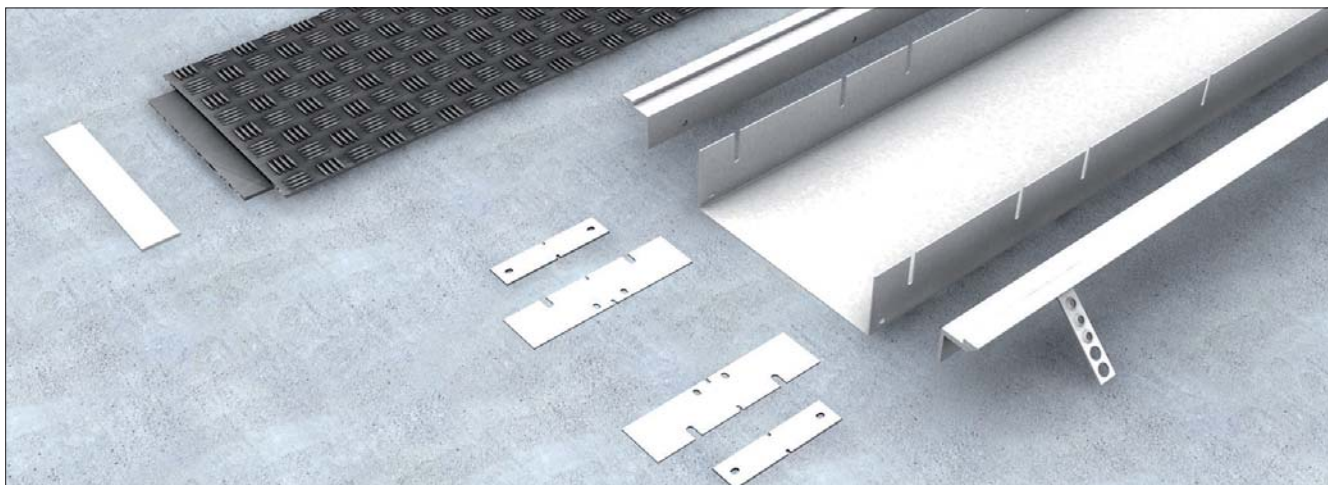
Screed work

Pay attention to a good screed compaction and conciseness in order to avoid cracks in the screed. Only load after the screed has hardened. Don't use insulation strips for decoupling.

Before mounting read the technical information „Assembly Requirements“.

SCREED FLUSH HEAVY-DUTY DUCT

ASSEMBLY INSTRUCTIONS



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.



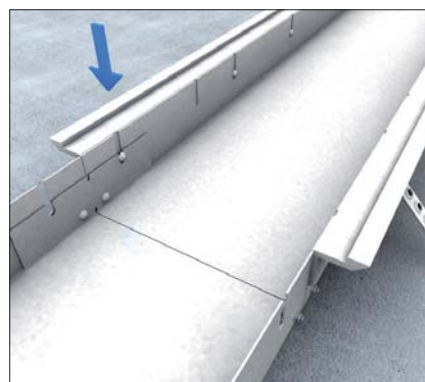
Duct alignment

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.



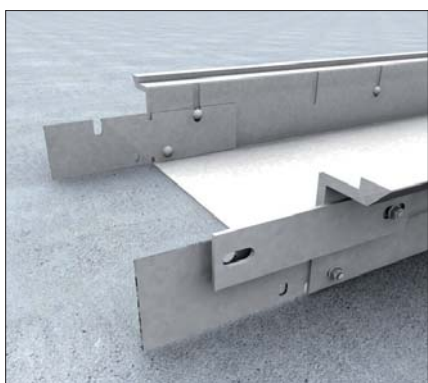
Inside couplers

Push duct bottom pieces together and screw together using inside couplers UBKV.



Side profile

Insert side profile UBKPR into the trenches of the duct bottom piece from the outside using pre-assembled screws.



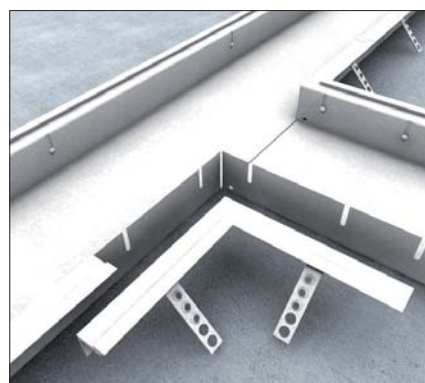
Coupler

Bolt duct bottom piece, side profile, and inside couplers together at the joints using couplers UBKPRV.



Fixing

Mount duct to the rough concrete in two places per length using plugs.



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.

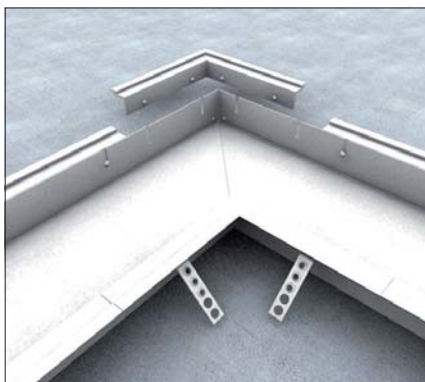
SCREED FLUSH HEAVY-DUTY DUCT

ASSEMBLY INSTRUCTIONS



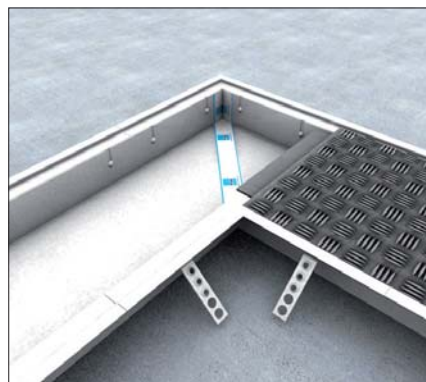
Shortening a T-junction

Push the branch duct bottom piece to the notch, shorten the side profile by 0,3 m and hinge it behind the inward bend.



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.



T-junction final assembly

Push the branch duct bottom piece to the notch and cut the dummy cover UBKD as well as the profile.



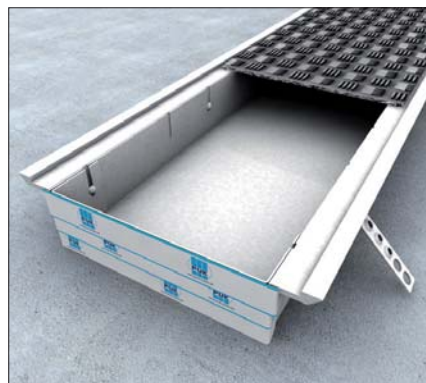
End piece

Hinge end piece UBKEB into duct bottom piece and align.



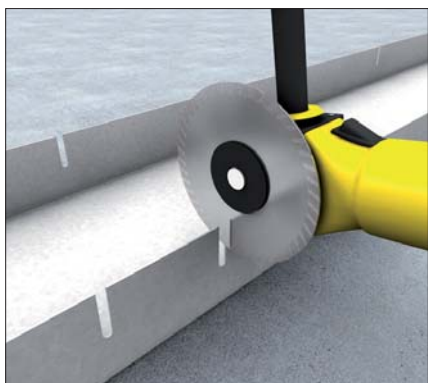
Spacer

Before applying screed, insert one spacer UBKDB per duct metre. The distance plate is to be removed after the hardening of screed.



Dummy cover

Mask all open areas and insert dummy covers only after the application of screed.



Slotting

If needed, add slots to the duct bottom piece, then burr and galvanise the joints.



Adjust levelling

Level duct system to the required screed height using a laser or digital tube level.

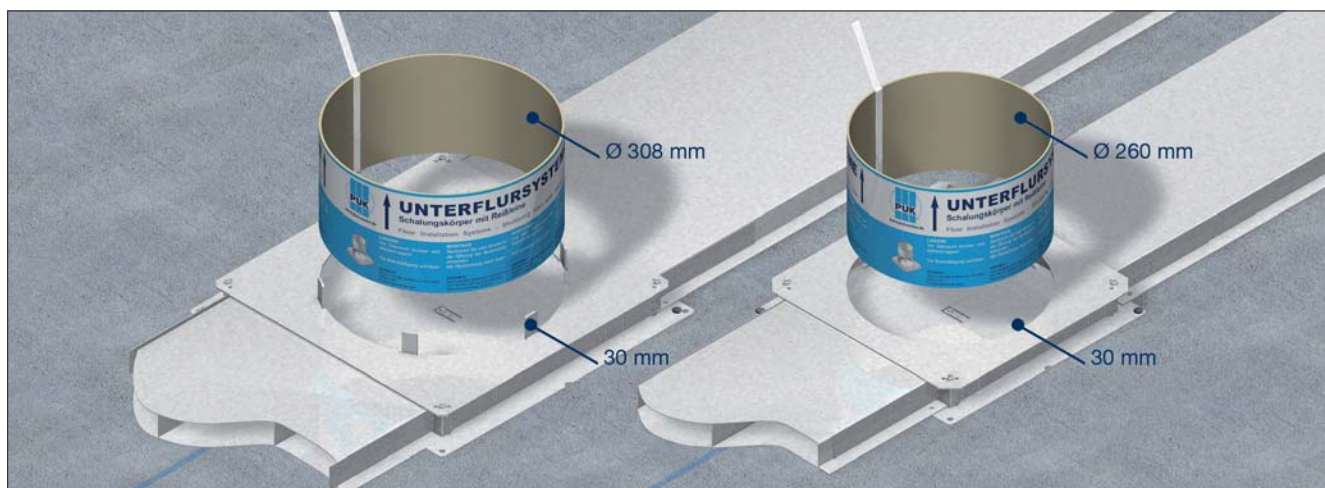


Levelling

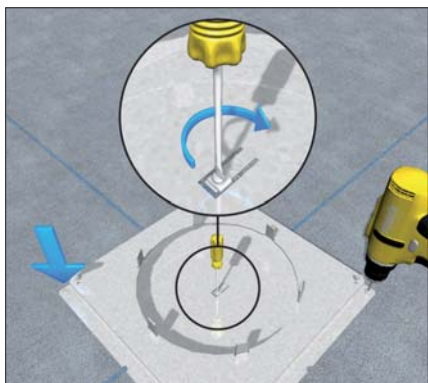
Height levelling over 35 mm is possible due to the side slot in the duct bottom piece.

HOLLOW SPACE FLOOR BOX, ROUND

ASSEMBLY INSTRUCTIONS

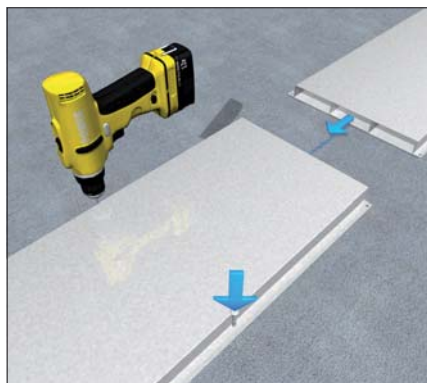


Hollow space floor box for round installation units Ø 305 mm or Ø 258 mm and underfloor ducts of up to 250 or 350 mm width with the heights of 28/38/48 mm. Observe minimum screed covering of 35 mm.



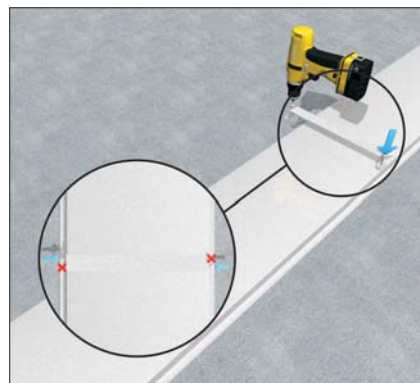
Hollow space floor box

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.



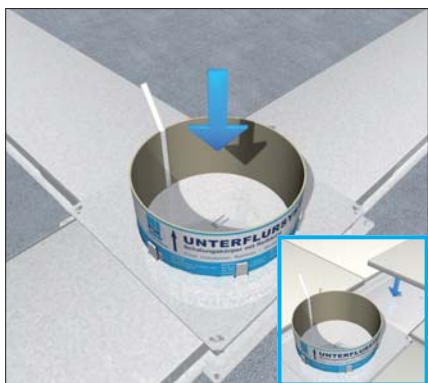
Duct

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.



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.



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.



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.

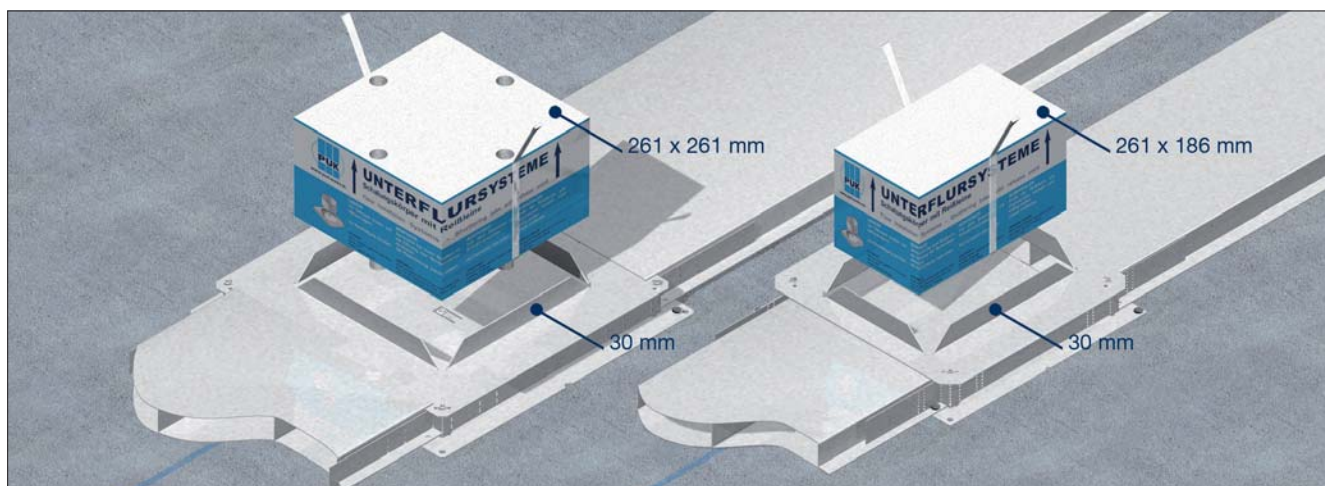


Removal of shuttering pipe

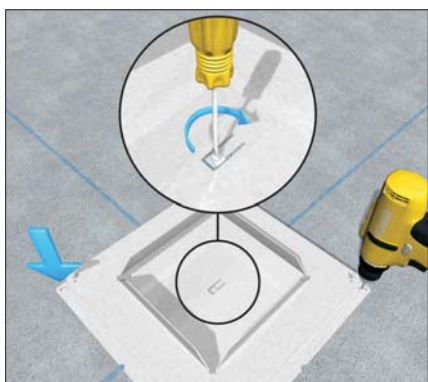
Remove shuttering pipe with the release cord from the hardened screed. Process floor cover to the cleaned assembly opening (Ø 260 mm, Ø 308 mm).

HOLLOW SPACE FLOOR BOX, QUADRANGULAR

ASSEMBLY INSTRUCTIONS

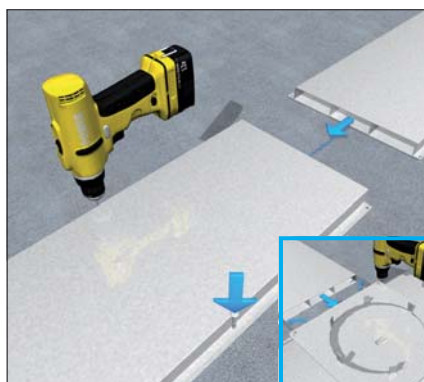


Hollow space floor box for angular installation units 258 x 258 mm or 258 x 184 mm and underfloor ducts of up to 250 or 350 mm width with the heights 28/38/48 mm. Observe minimum screed covering of 35 mm.



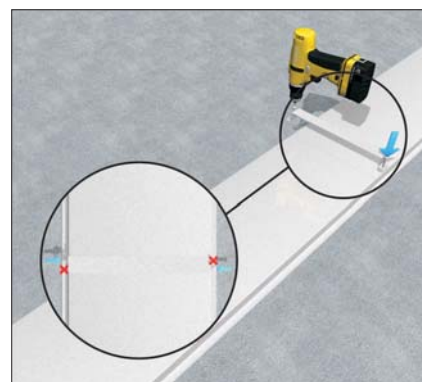
Hollow space floor box

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 in the duct system.



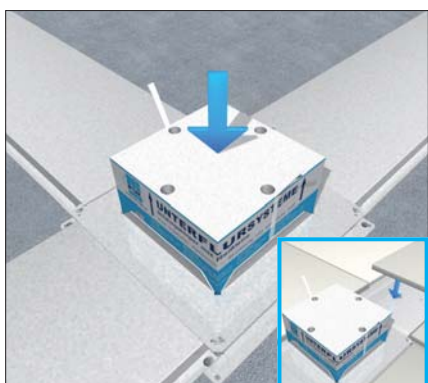
Duct

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.



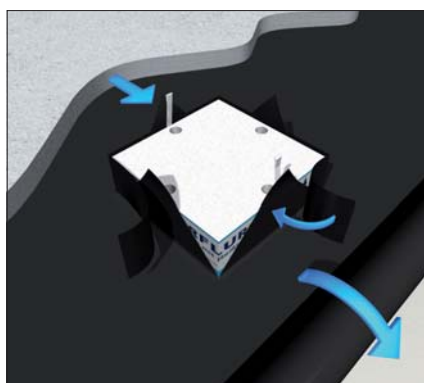
Clip

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.



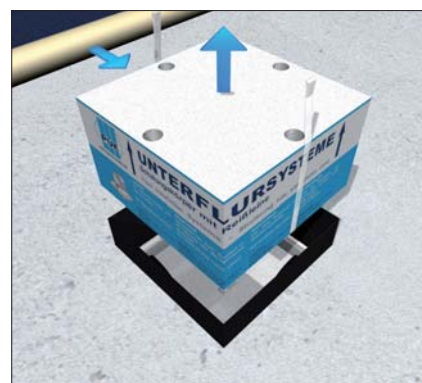
Inserting the shuttering unit

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.



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.

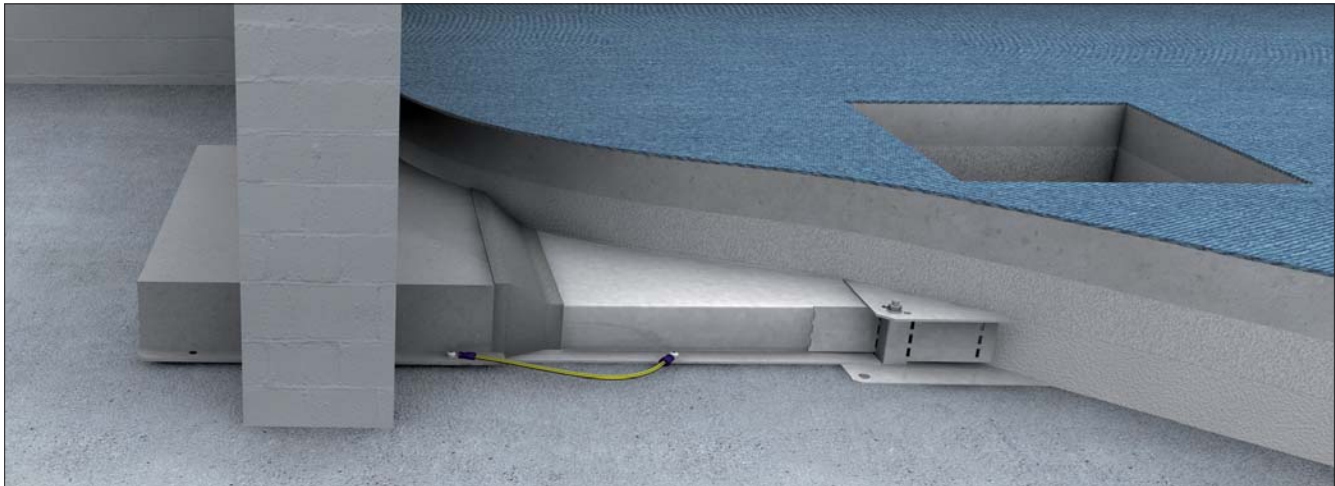


Removal of shuttering unit

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 INSTRUCTIONS



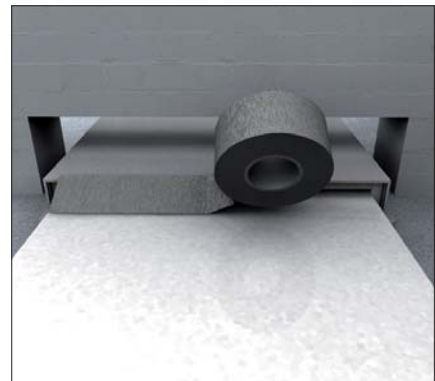
Fire stop (cable seal WD90, Wichmann system) for screed-covered underfloor ducts with a width of 350 mm, available in the heights of 28, 38 and 48mm. Other sizes upon request. For the installation in fire protection walls of fire resistance grading S90.



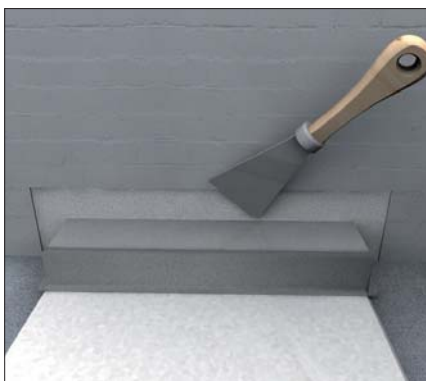
The fire stop shipment includes an underfloor cable box and a quality label. Two EasyFoam smoke protection plugs can be ordered in addition to the scope of delivery.



Place the cable box into the wall opening. The box must not protrude from the wall by more than 8,5 cm.



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.



Thoroughly plaster into wall depth using mineral mortar or joint filling made of hard cement.



Firmly plug the three-sided steel plate housing to the fire stop on the raw floor, allowing for an earthing connection.



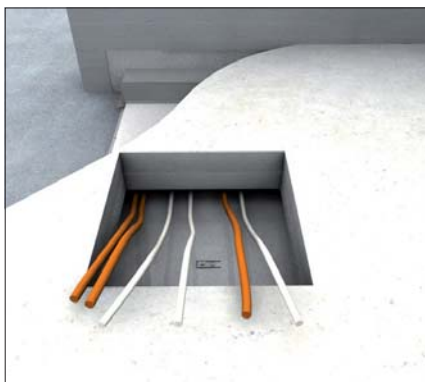
In order to create an inspection chamber or an installation opening, mount hollow floor box to the underfloor duct and then insert shuttering unit.

FIRE PROTECTION FOR SCREED-COVERED UNDERFLOOR SYSTEMS

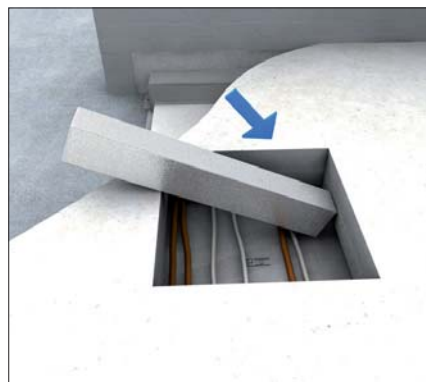
ASSEMBLY INSTRUCTIONS



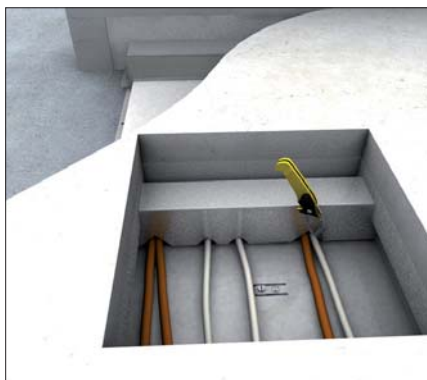
After the completed mounting of the screed-covered duct system, apply sealing, impact noise insulation and screed.



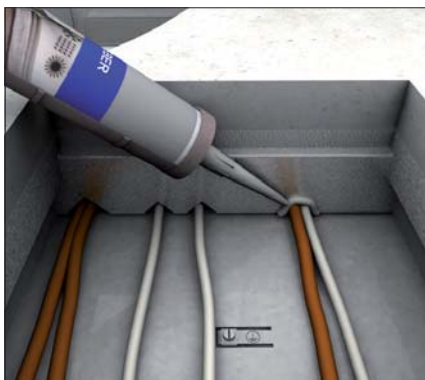
Laying of cables in screed-covered underfloor duct and fire stop. The ground below the partition must be even and not flammable.



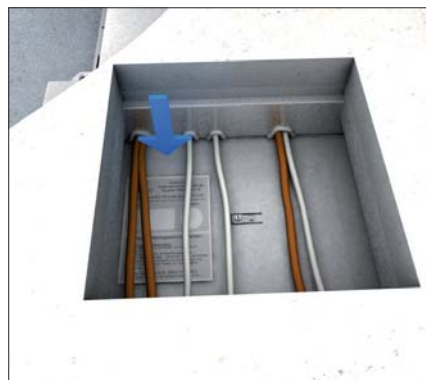
Place EasyFoam smoke protection plugs over the entire width of hollow floor box.



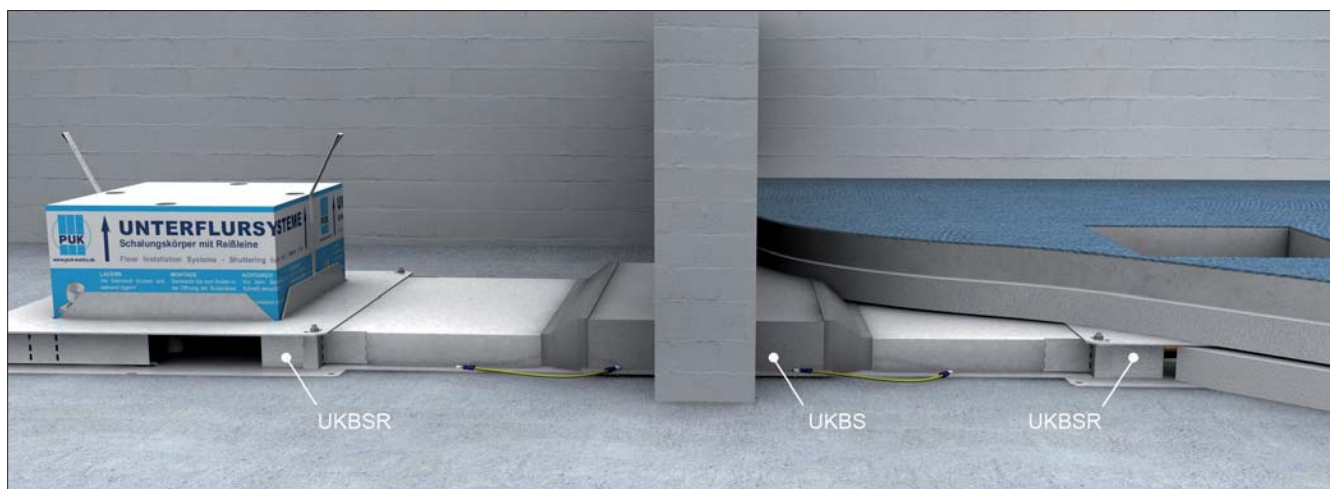
Cut EasyFoam smoke protection plugs according to the cable sizes.



All remaining openings must be sealed using silicone or EasyFoam fire protection foam.



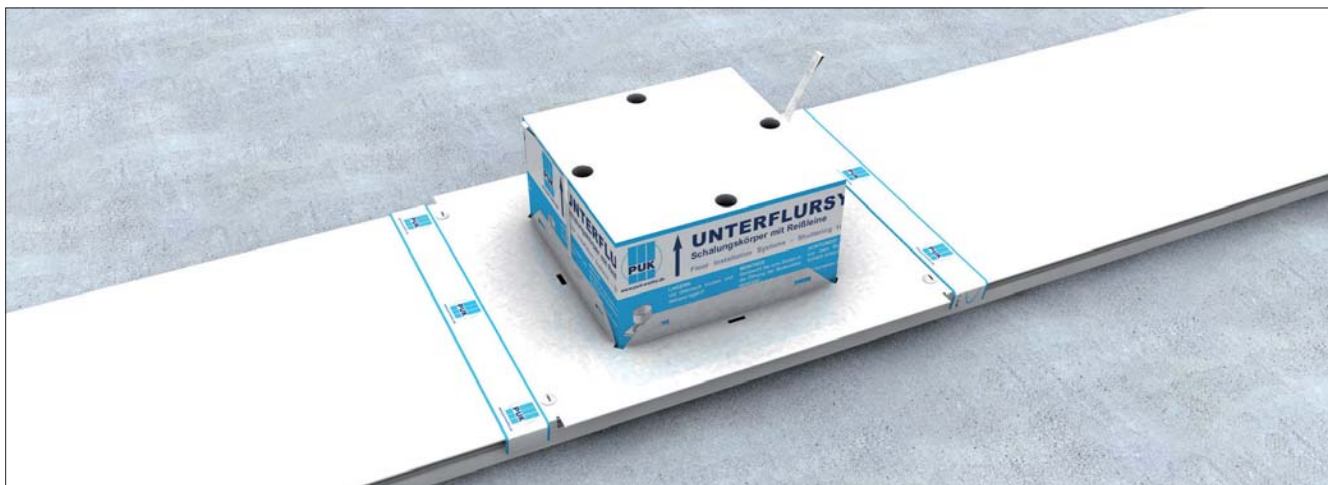
Fill in quality label and affix to the hollow floor box. Hand in declaration of compliance together with permit.



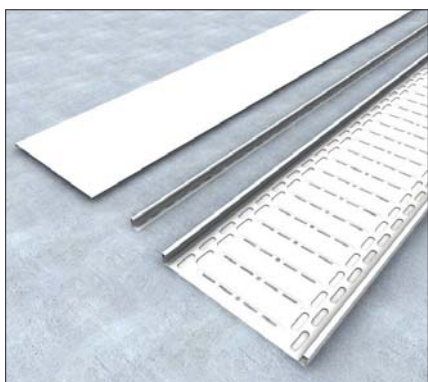
The fire stop must be installed according to DIN 4102-4 in brickwork of up to 10cm thickness and sealed on both sides of the nearest hollow floor box using EasyFoam smoke protection plugs. The underfloor fire stop has a capacity of up to 100% for holding cables. All cables can be led through the fire 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

ASSEMBLY INSTRUCTIONS

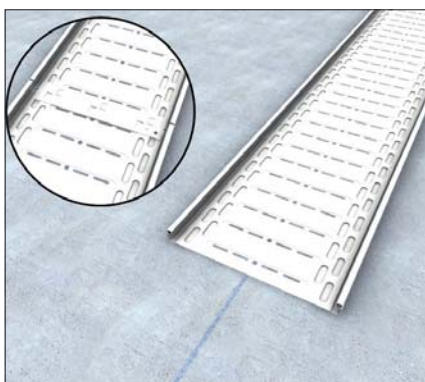


Open, two- respectively three compartment cable duct UKR in the nominal widths $B = 300, 400$ and 500 mm, made of steel sheet, with length L of 3000 mm. In the heights of $35, 60, 85$ and 110 mm. Loading capacity up to $0,75$ kN. Consisting of a bottom piece with a barrier strip and a separate top piece.



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.



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.



Fixing

Mount duct to the rough concrete in one place per length using plugs.



Junction

In order to create a junction, notch the duct bottom piece according to the width of the duct branch.



Barrier strip

Always fasten barrier strips UKTR symmetrically to the rough concrete using plugs once per metre.

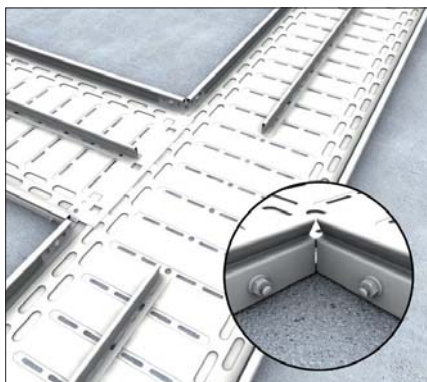


Fastening of barrier strip

Barrier strips must be mounted in parallel offset of the duct.

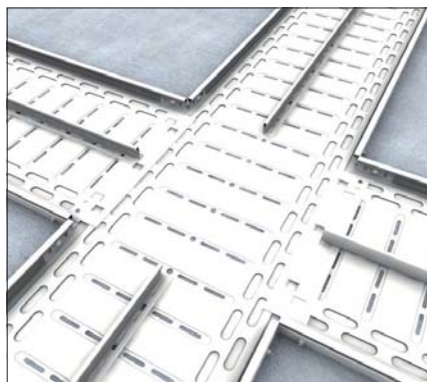
SCREED-COVERED CABLE DUCT

ASSEMBLY INSTRUCTIONS



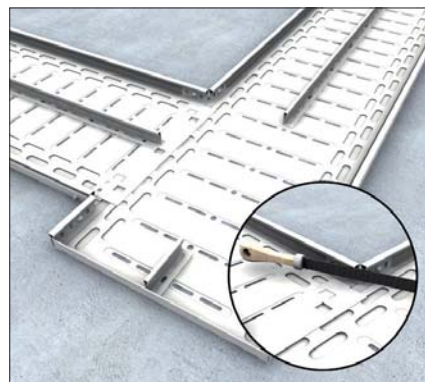
Fitting components

T-extensions, junctions, and 90° bends can be created by notching the duct. Screw couplers together on the inside.



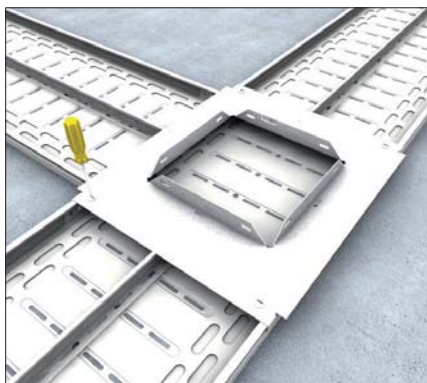
Duct segments

The duct segments are connected by means of extension accessories UKAZ.



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.



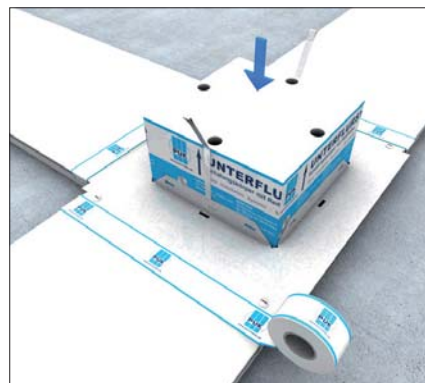
Assembly cover fitting component

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.



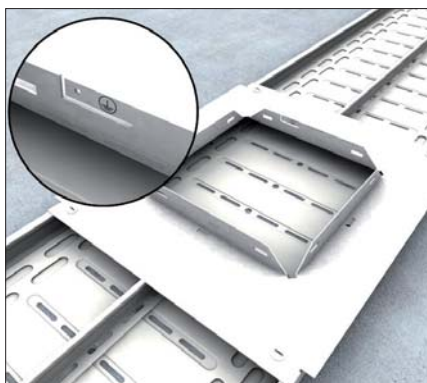
Dummy covers

Cut dummy covers UKD accurate to measurement, place on the duct and then latch in.



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 the application of screed.



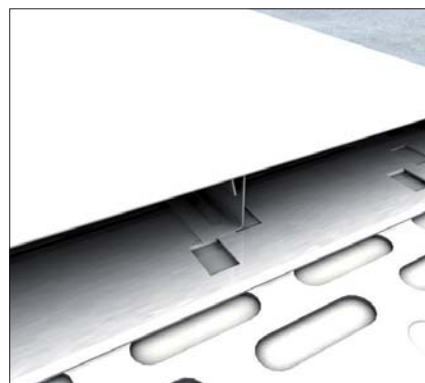
Assembly cover

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.



Duct assembly

Mount duct bottom piece and dummy cover on parallel offset.

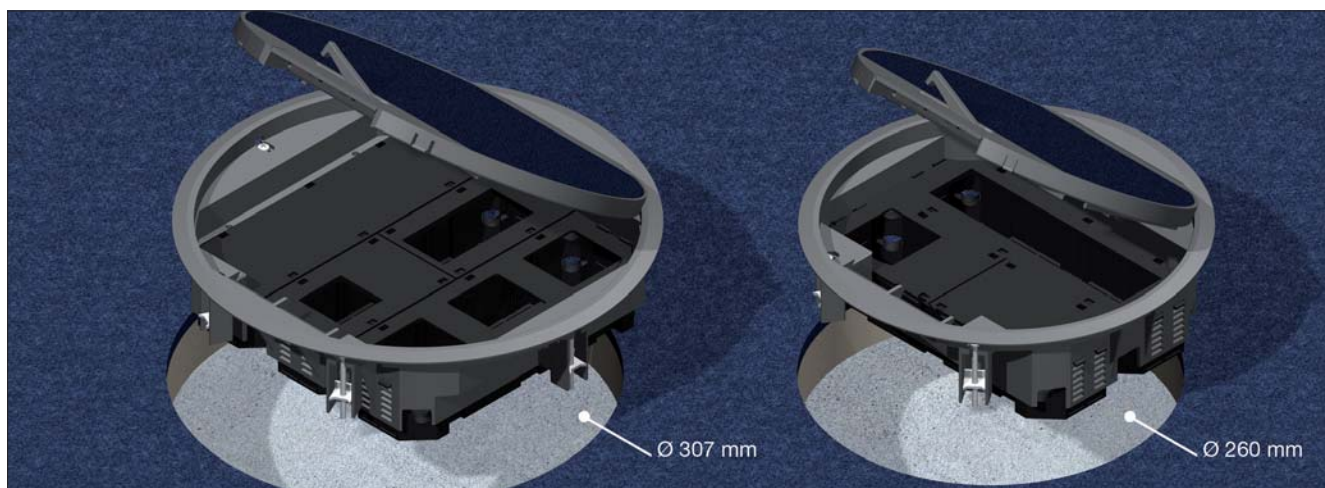


Assembly opening

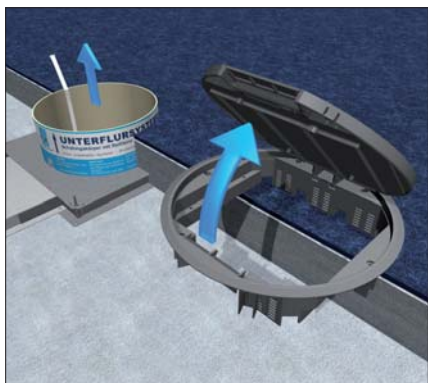
Barrier strips must not extend into the assembly opening, but must end 1-2 mm before.

INSTALLATION UNIT MADE OF PLASTIC, ROUND

ASSEMBLY INSTRUCTIONS

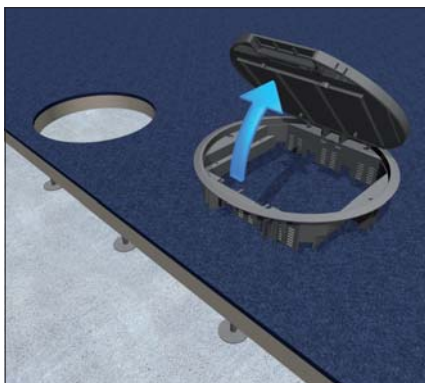


Round installation units, external diameter Ø 305 or Ø 258 mm, for installation of up to three device containers.



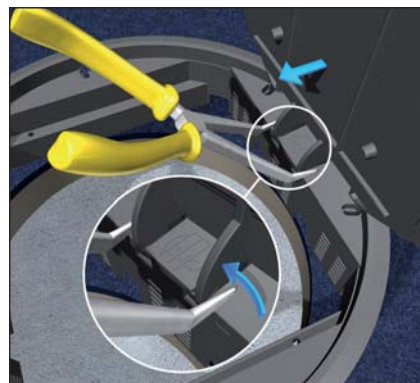
Screed floors

For screed covered systems remove shuttering unit and mount directly into the opening.



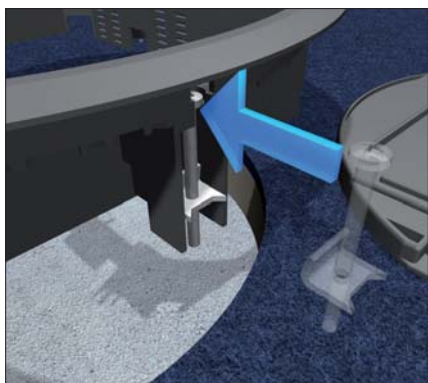
Hollow space- and raised floors

For hollow space and raised floors mount directly into the installation opening.



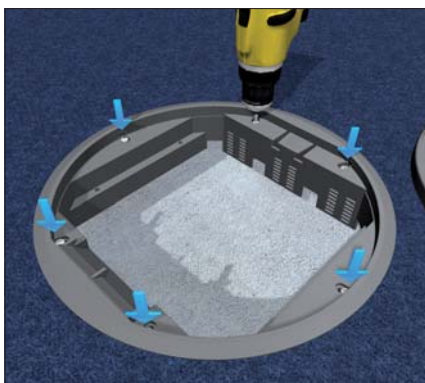
Remove hinged cover

Open cover completely, pull hinge joint firmly out with tongs until the snap tabs are released from the frame. Remove cover to the front.



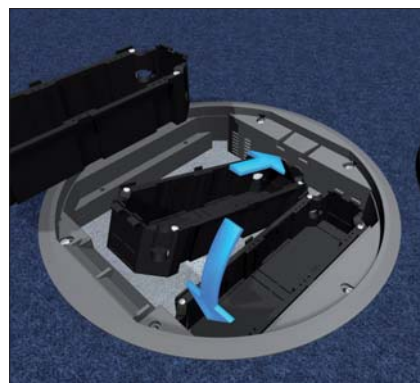
Mounting claws

Mount the enclosed standard claw fasteners (range of claws 30 to 50 mm) into the acceptance in the frame.



Fastening installation frame

Insert installation unit into the opening and level unit. Fasten Phillips screws and check frame for straight seating.

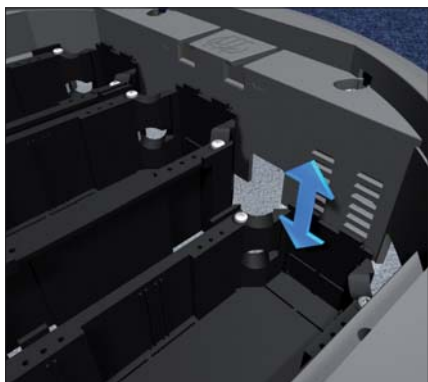


Inserting device containers

Click device containers as deep as possible into the lock-in leads.

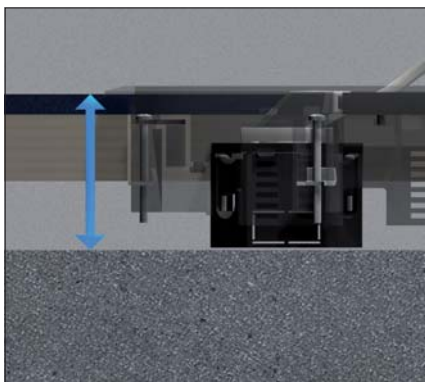
INSTALLATION UNIT MADE OF PLASTIC, ROUND

ASSEMBLY INSTRUCTIONS



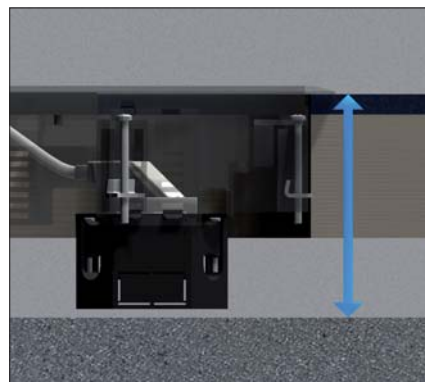
Lock-in leads

For lowering the device container gradually down to 30 mm.



Minimum installation height

Minimum installation height 74 mm and 87 mm for device plugs up to h = 35 mm.



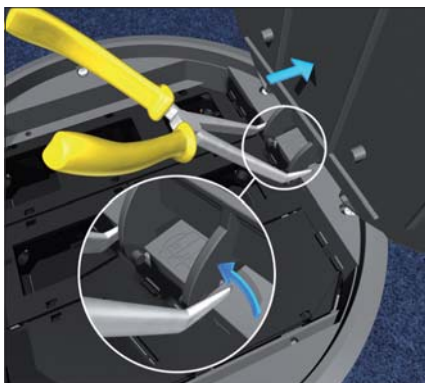
Maximum installation height

Maximum installation height 104 mm for device plugs up to h = 50 mm.



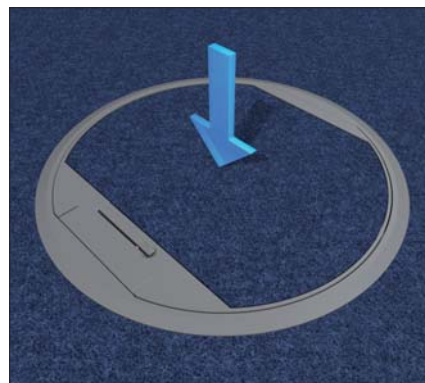
Loosen device container

Insert screwdriver or mounting lever between frame and device container. Loosen snap tab and remove device container.



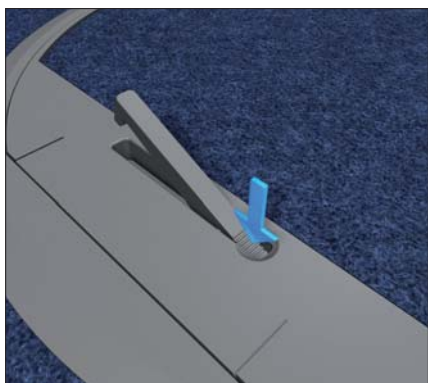
Insert hinged cover

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.



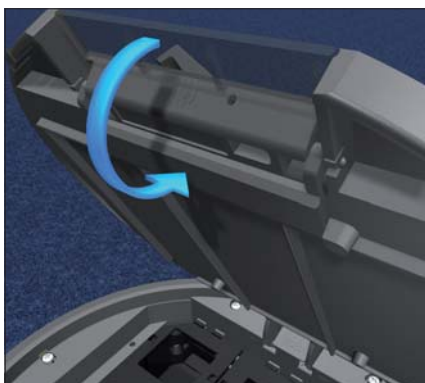
Glue in bottom covering

Cut bottom coverings up to 8 mm accurately fitting and glue to the steel insert. Optional lid insert H = 3 mm.



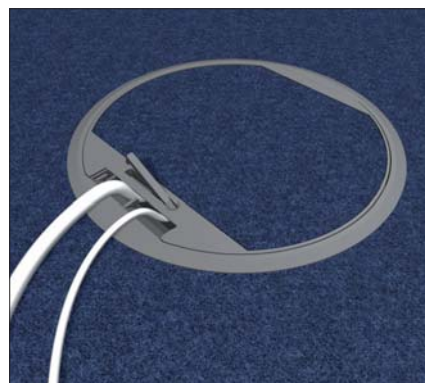
Opening lever

Self-locking opening lever behind the cable outlet.



Cable outlet

Swing around carriage cover by 180° and snap in.

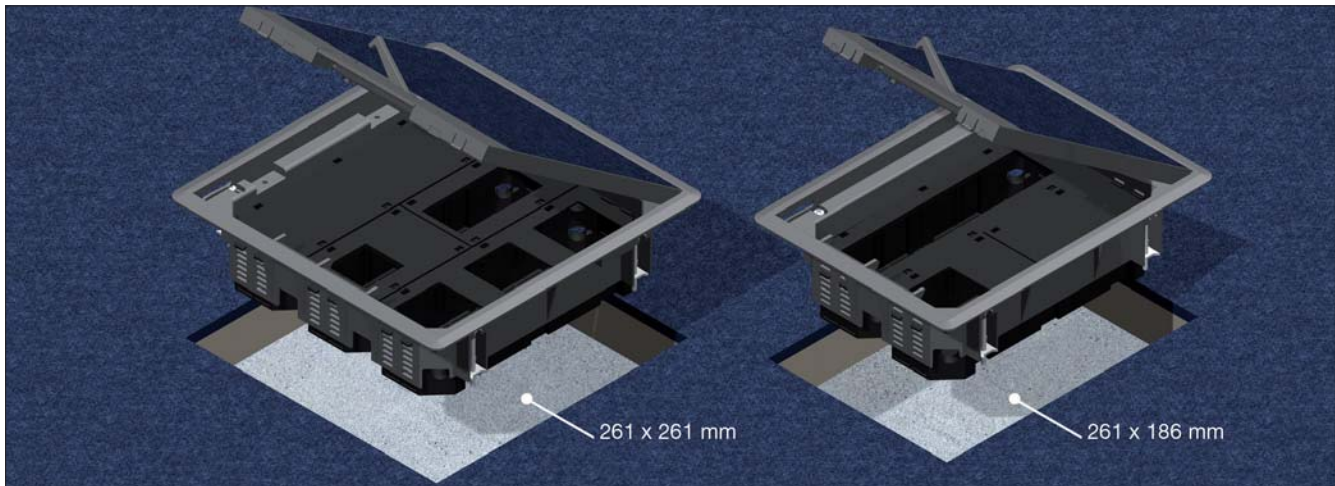


Leading cables through

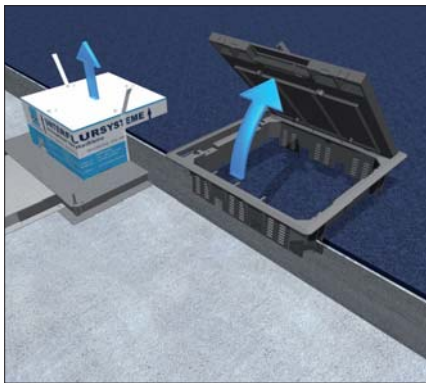
Leading cables through the open cable outlet.

INSTALLATION UNIT MADE OF PLASTIC, QUADRANGULAR

ASSEMBLY INSTRUCTIONS

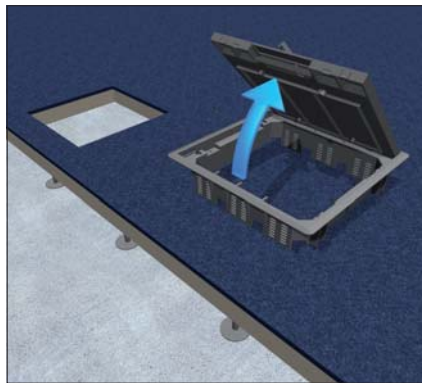


Angular installation units, external dimension 258 x 258 mm or 258 x 184 mm, for installation of up to three device containers.



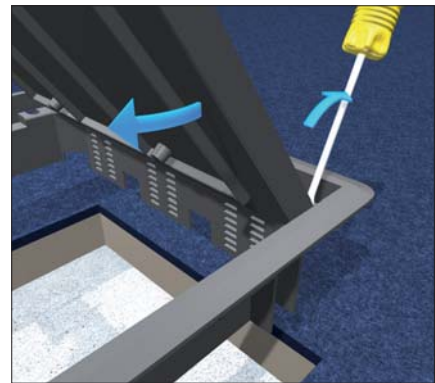
Screed floors

For screed covered systems remove shuttering unit and mount directly into the opening.



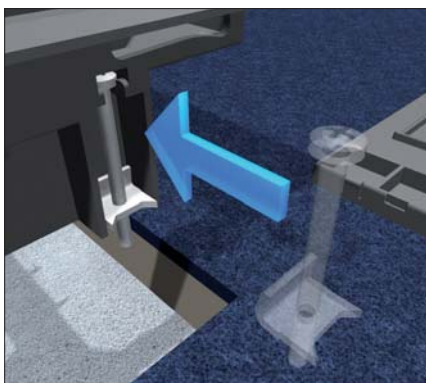
Hollow space- and raised floors

For hollow space and raised floors mount directly into the installation opening.



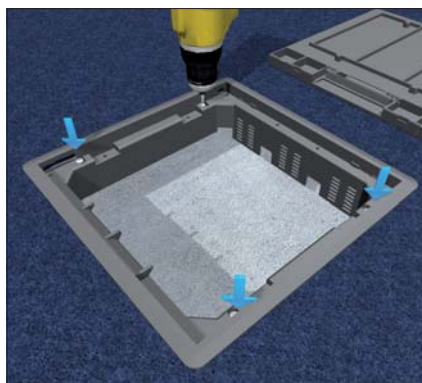
Remove hinged cover

Open cover completely, pull firmly forward at the right side and loosen from hinge joint with a screwdriver.



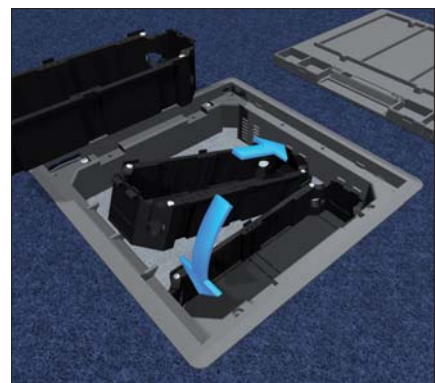
Mounting claws

Mount the enclosed standard claw fasteners (range of claws 30 to 50 mm) into the acceptance in the frame.



Fastening installation frame

Insert installation unit into the opening and level unit. Fasten Phillips screws and check frame for straight seating.

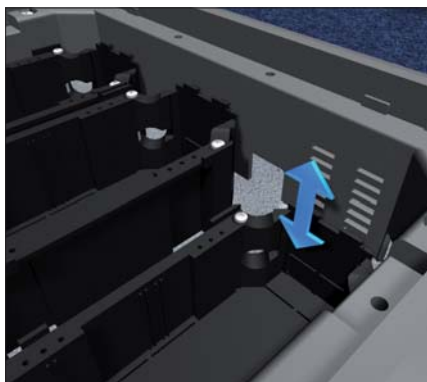


Inserting device containers

Click device containers as deep as possible into the lock-in leads.

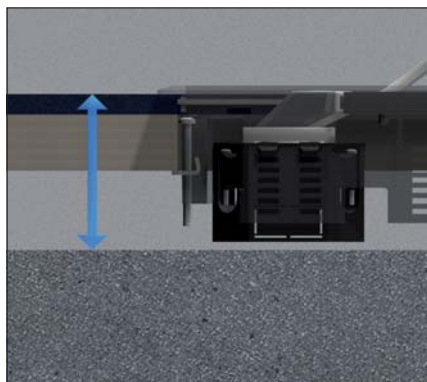
INSTALLATION UNIT MADE OF PLASTIC, QUADRANGULAR

ASSEMBLY INSTRUCTIONS



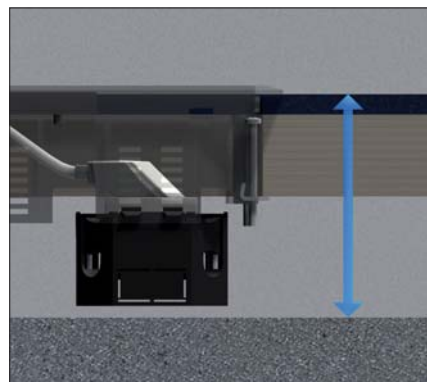
Lock-in leads

For lowering the device container gradually down to 30 mm.



Minimum installation height

Minimum installation height 74 mm and 87 mm for device plugs up to h = 35 mm.



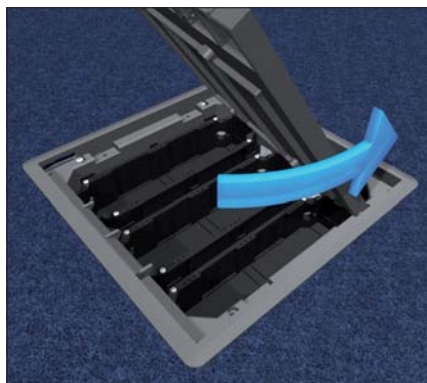
Maximum installation height

Maximum installation height 104 mm for device plugs up to h = 50 mm.



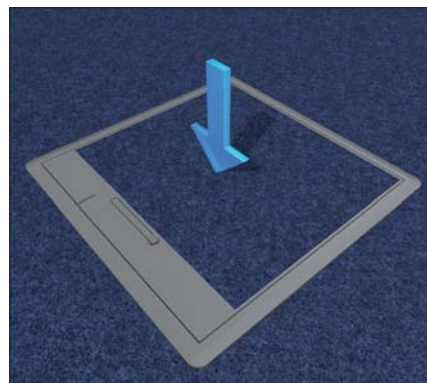
Loosen device container

Insert screwdriver or mounting lever between frame and device container. Loosen snap tab and remove device container.



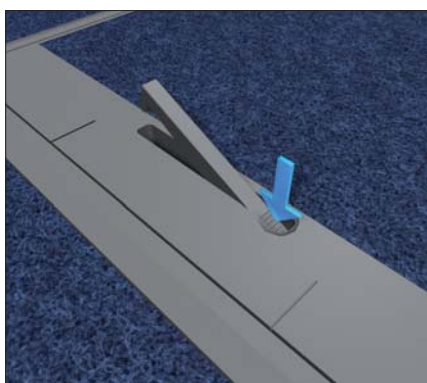
Insert hinged cover

Attach opened hinged cover at the left back side, push firmly to the back on the right side and snap into hinged-joint.



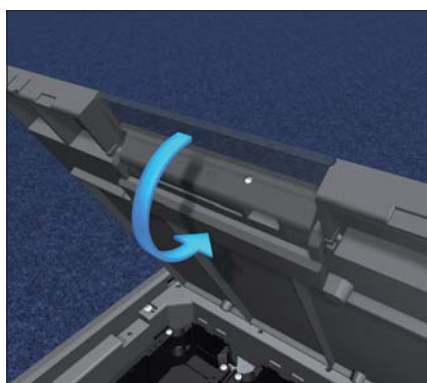
Glue in bottom covering

Cut bottom coverings up to 8 mm accurately fitting and glue to the steel insert. Optional lid insert H = 3 mm.



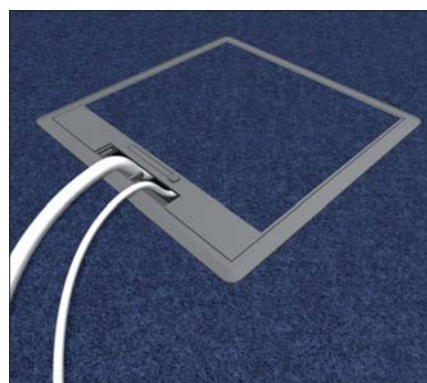
Opening lever

Self-locking opening lever behind the cable outlet.



Cable outlet

Swing around carriage cover by 180° and snap in.

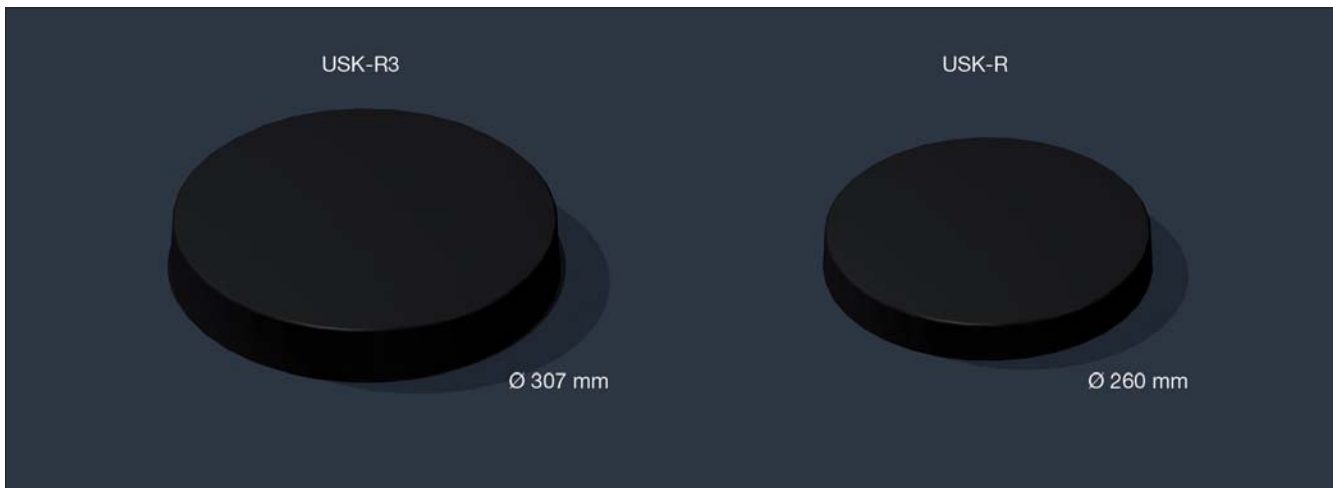


Leading cables through

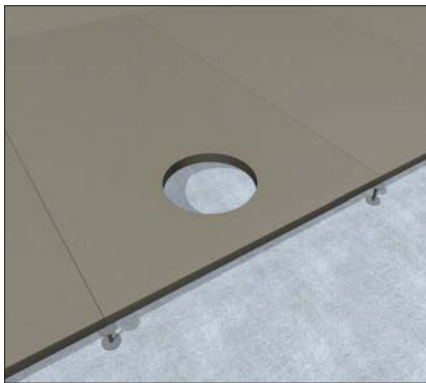
Leading cables through the open cable outlet.

SHUTTERING UNIT, ROUND

ASSEMBLY INSTRUCTIONS

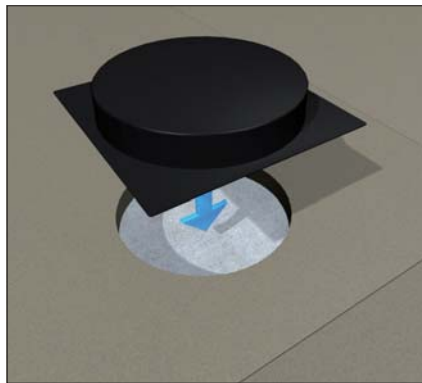


Round shuttering units in 2 designs, deep-drawing piece made of 1 mm plastic, height 50 mm for providing an opening in the hollow floor.



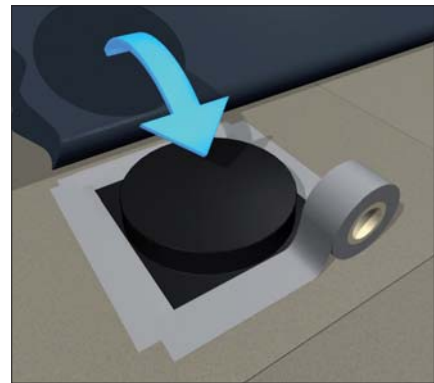
Levelling of shuttering unit

Provide openings with cross section 307 mm or 260 mm in the assembled basic floor.



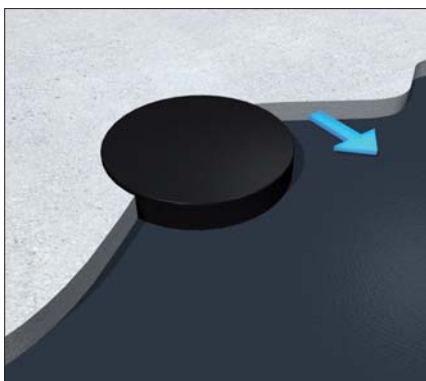
Fixation of shuttering unit

Level the shuttering units on the hollow floor before application of screed.



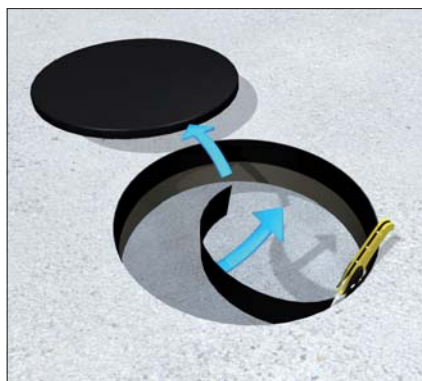
Mounting of foil

Fix shuttering units to the floor with adhesive tape, cut out foil and overlap.



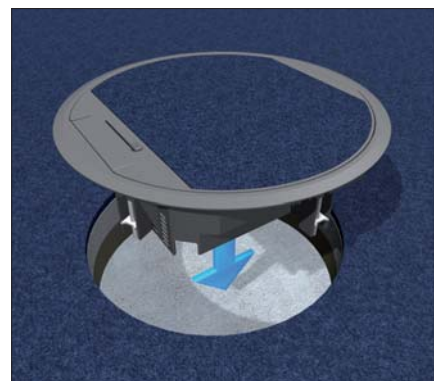
Inserting screed

Spread the screed on the whole area and compact it neatly.



Cut out opening

After the screed has hardened remove the overlapping lid and sidewalls neatly.

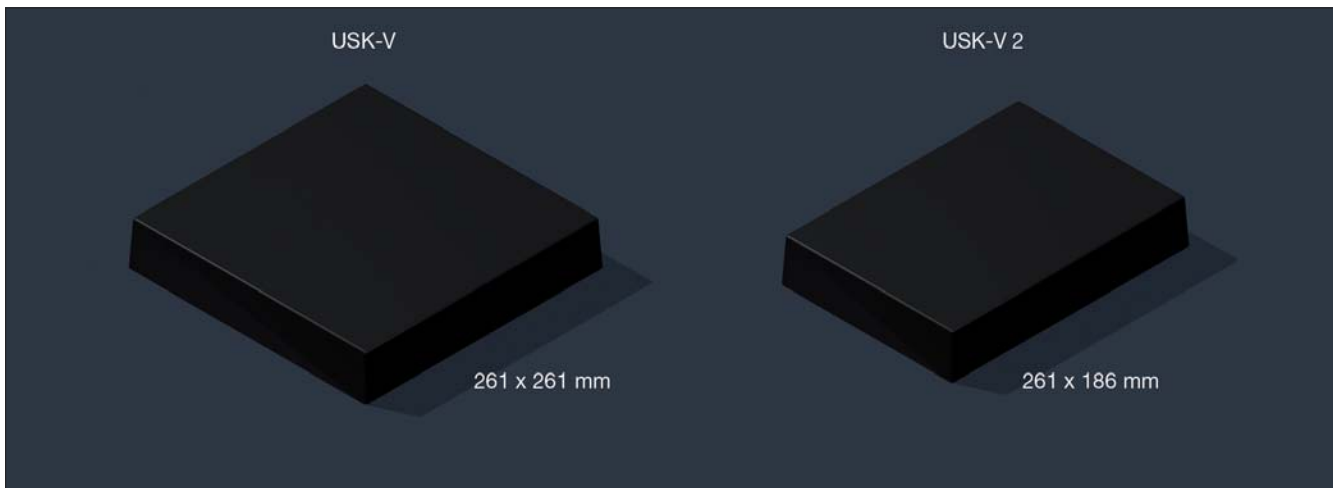


Mounting assembly unit

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 INSTRUCTIONS

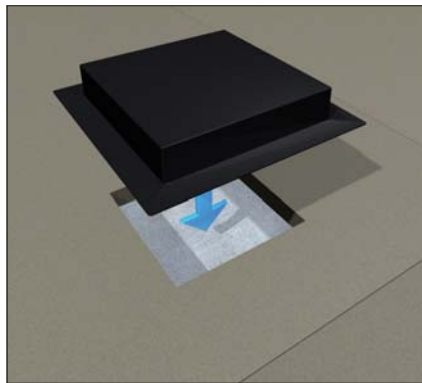


Angular shuttering units in 2 designs, deep-drawing piece made of 1 mm plastic, height 50 mm for providing an opening in the hollow floor.



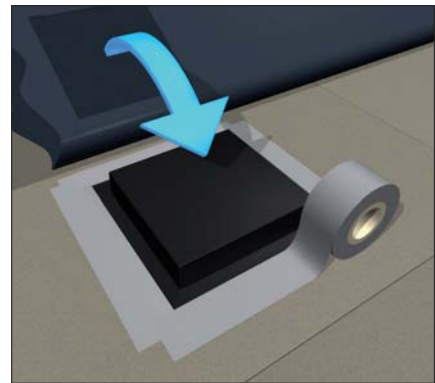
Levelling of shuttering unit

Provide openings 261x261 mm or 261x186 mm in the assembled basic floor.



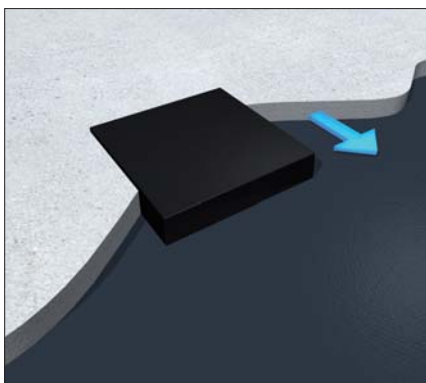
Fixation of shuttering unit

Level the shuttering units on the hollow floor before application of screed.



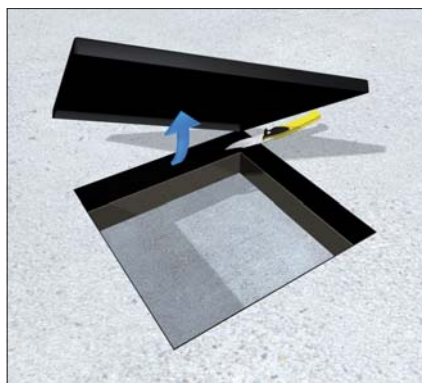
Mounting of foil

Fix shuttering units to the floor with adhesive tape, cut out foil and overlap.



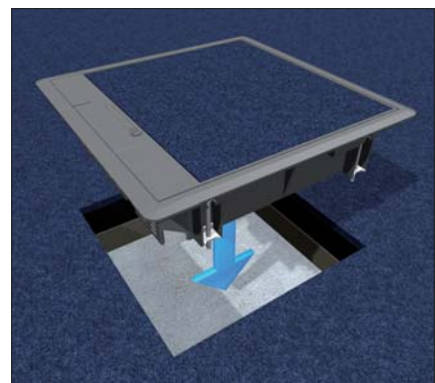
Inserting screed

Spread the screed on the whole area and compact it neatly.



Cut out opening

After the screed has hardened remove the overlapping lid and sidewalls neatly. Side walls must be maintained.

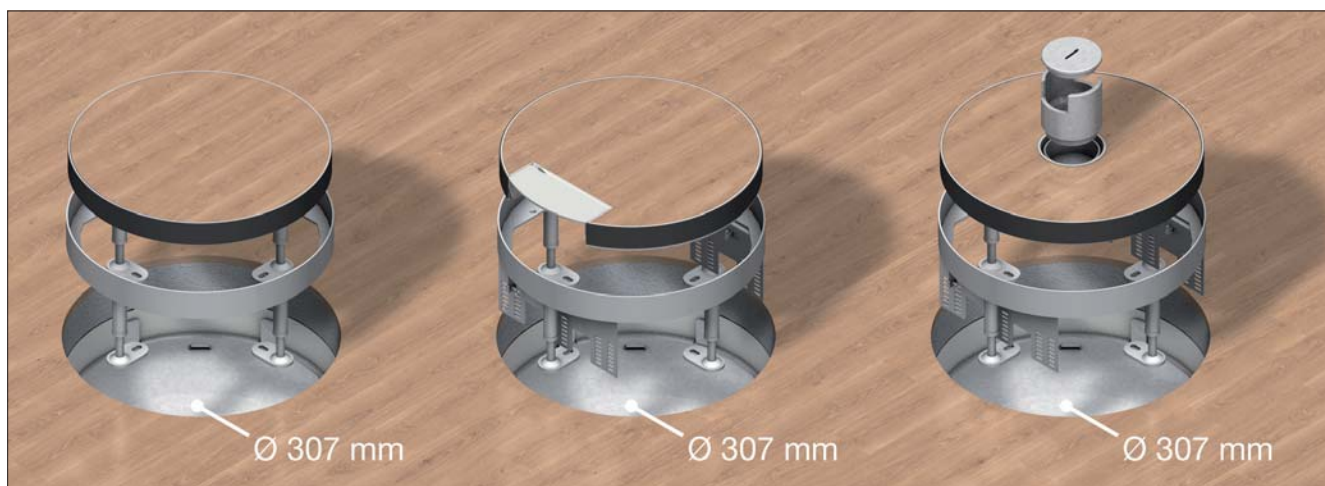


Mounting assembly unit

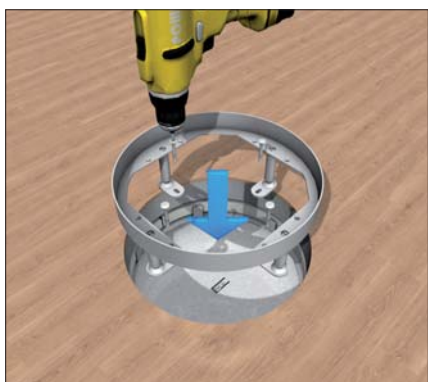
After the floor covering has been laid insert the installation unit straight into the opening and fasten it with the claws evenly to the screed.

CARTRIDGE UNIT MADE OF HIGH-GRADE STEEL, ROUND

ASSEMBLY INSTRUCTIONS



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. Can be levelled from 100 to 155 mm.



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.



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.



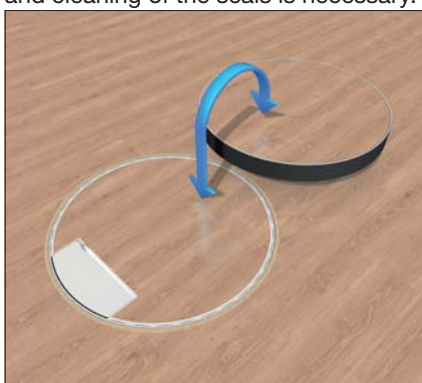
Lock-in leads

Fasten both lock-in leads to the frame from the bottom, using 2 screws for each. Make the grounding connection between levelling device and floor box.



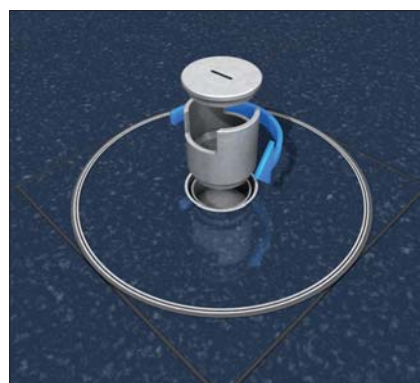
Floor adjustment

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.



Parquet cover

For damp-maintenance floors, such as parquet covers, use a dummy cartridge unit or a cable outlet cartridge unit. The floor cover depth must be considered, however. Insert the replaceable cartridge into the frame.

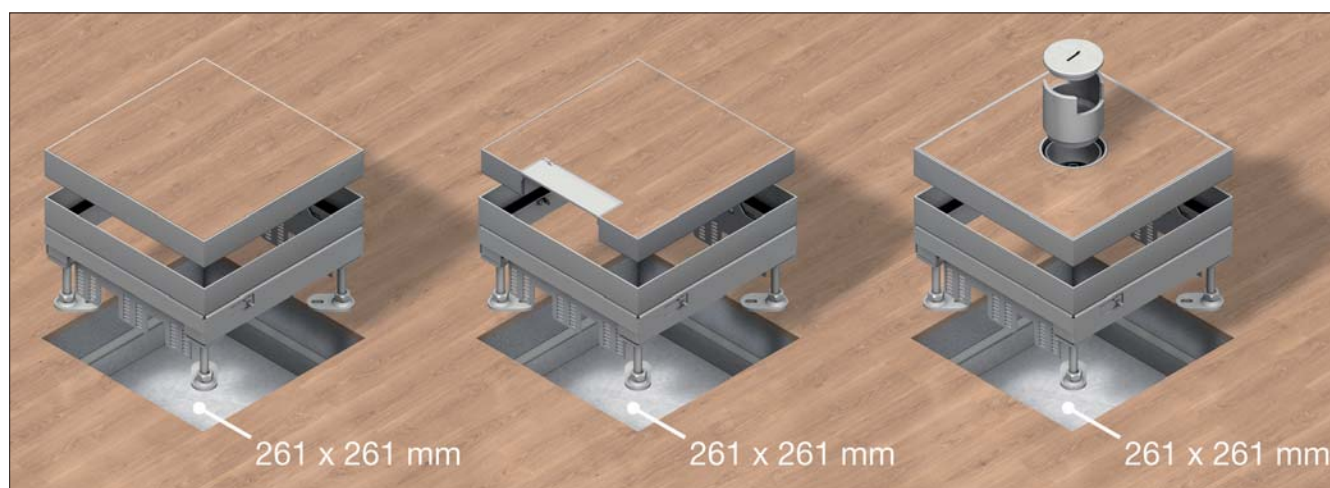


Stone cover

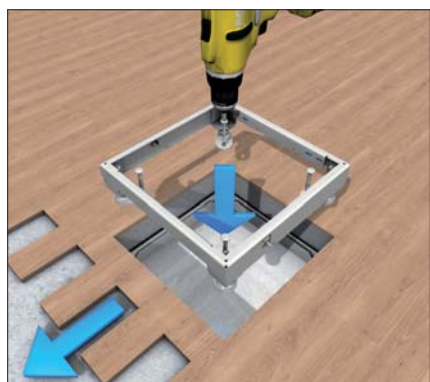
For wet maintenance floor covers, such as stone covers, only a tube cartridge unit may be used. The floor cover depth must be considered, however. Insert the replaceable cartridge into the frame. The tube can be screwed.

CARTRIDGE UNIT MADE OF HIGH-GRADE STEEL, QUADRANGULAR

ASSEMBLY INSTRUCTIONS

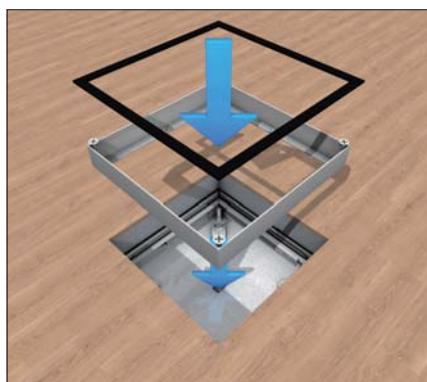


Square cartridge unit with hem, made of stainless steel, with the outside measurements of 261x261mm as a dummy cartridge unit, cable outlet cartridge unit and tube cartridge unit for the installation into screed and hollow floors. For 12/22/32/42 mm parquet and stone covers. Can be levelled from 65 to 315 mm.



Levelling device

For parquet or stone floors insert the levelling device into the floor opening. Fasten the four levelling bases with nail plugs.



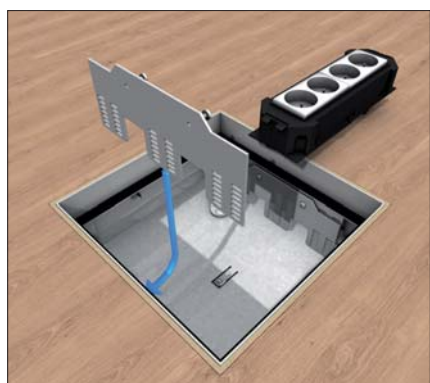
High-grade steel frame

Screw the high-grade 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.



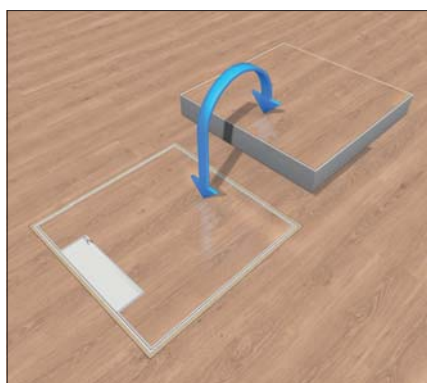
Floor adjustment

Align the installation frame flush on the level of the finished floor above four levelling screws. Seal expansion joint revolving with cork or sealing mass.



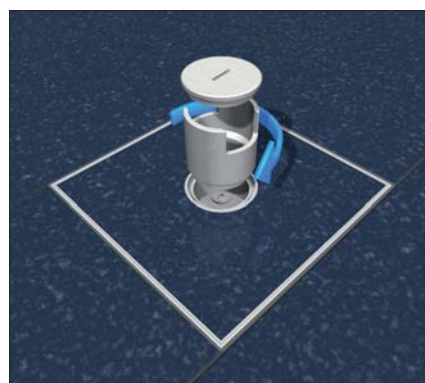
Lock-in leads

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, observe the minimum installation depth $H_{min} = 95$ mm.



Parquet cover

For damp-maintenance floors such as parquet covers, use a dummy cartridge unit or a cable outlet cartridge unit. The floor cover depth must be considered, however. Insert the replaceable cartridge into the frame.

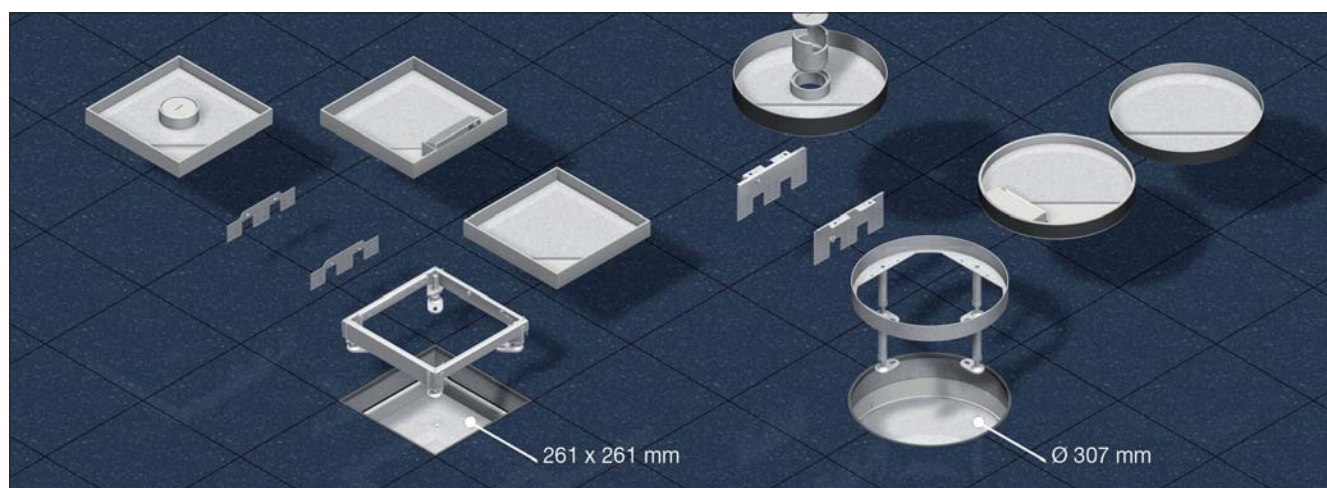


Stone cover

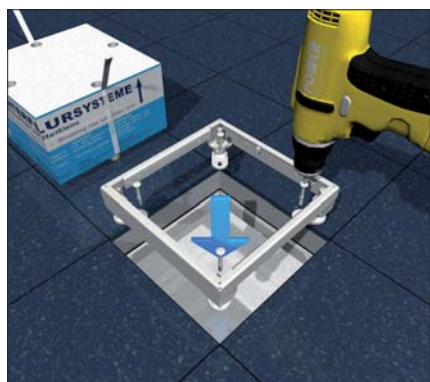
For wet maintenance floor covers, such as stone covers, only a tube cartridge unit may be used. The floor cover depth must be considered, however. Insert the replaceable cartridge into the frame. The tube can be screwed.

HEAVY-DUTY CARTRIDGE UNITS MADE OF HIGH-GRADE STEEL

ASSEMBLY INSTRUCTIONS

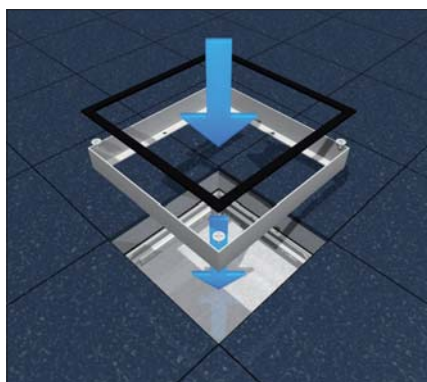


High-grade steel installation cartridge with levelling device, round or angular design, as dummy-, cable-outlet- or tube outlet cartridge with steel insert for working loads up to 10 or 20 kN.



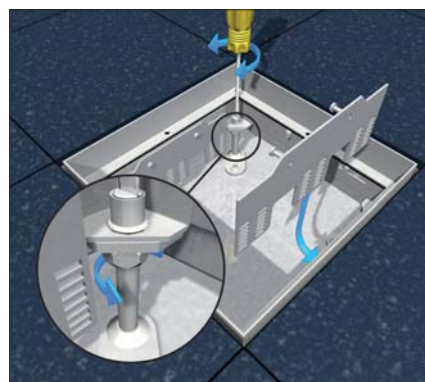
Levelling device

Remove shuttering unit and insert levelling device into the floor opening. Fasten the four levelling bases to the slab with drilling screws.



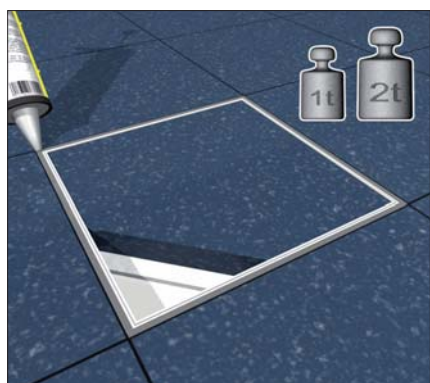
High-grade steel frame

Attach device container installation frame first and then high-grade steel frame to the levelling device and fasten with 4 screws. Glue in rubber sealing.



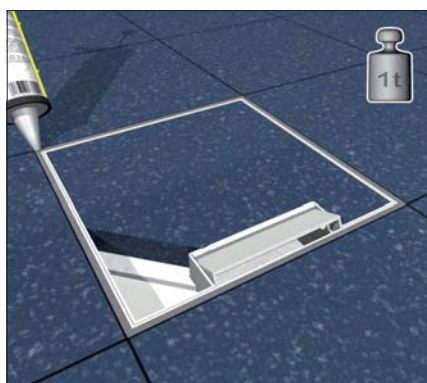
Levelling to floor

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.



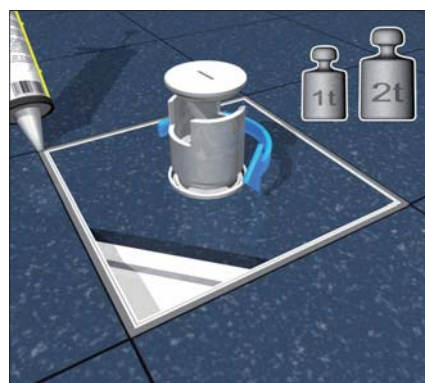
Dummy cartridge 10 / 20kN

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.



Cable outlet cartridge 10 kN

Insert cartridge with integrated steel inlay into the frame, seal expansion gap. For coverings thicker than 16 mm.



Tube outlet cartridge 10 / 20 kN

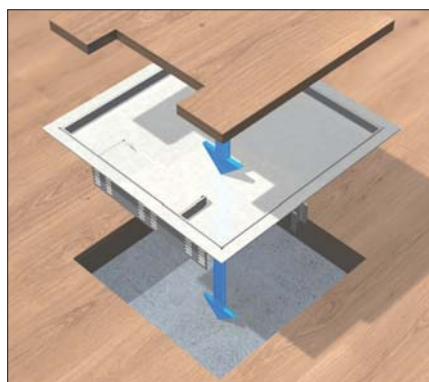
Insert cartridge with integrated steel inlay and tube mounting set into the frame. Complete with tube. Seal expansion gap. For coverings thicker than 16 mm in case of applied load 10 kN and 24 mm in case of applied load 20 kN.

CARTRIDGE INSTALLATION UNIT MADE OF HIGH-GRADE STEEL, QUADRANGULAR

ASSEMBLY INSTRUCTIONS

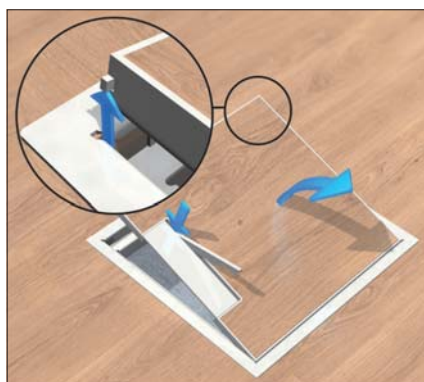


Quadrangular cartridge installation units with carpet protection frame made of high-grade steel with outer measurements of 284x284 mm or 284x211 mm for the installation in hollow space floors or raised floors. For parquet flooring of 12/22 mm.



Unit

For the installation of up to 3 device cups, place the cartridge installation unit UEKDD V E into the opening.



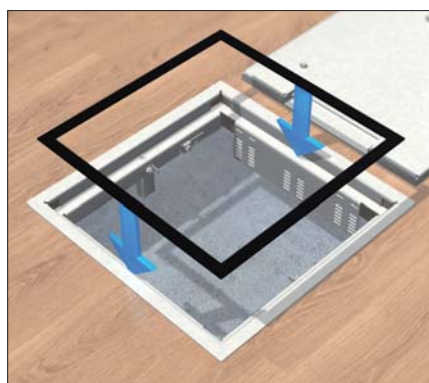
Opening lever

Open the self-locking opening lever behind the cable outlet. Remove the cover sideways over the hinge.



Claws

Hinge the enclosed claws with the corresponding screws into the frame guide and pull tight.



Rubber seal

Glue the rubber seal to the impact-noise interface.



Device cup

Snap the device cup as deep into the lock-in leads as possible. When using an device plug $H = 35 \text{ mm}$, minimum installation depth $H_{\text{min}} = 91 \text{ mm}$.

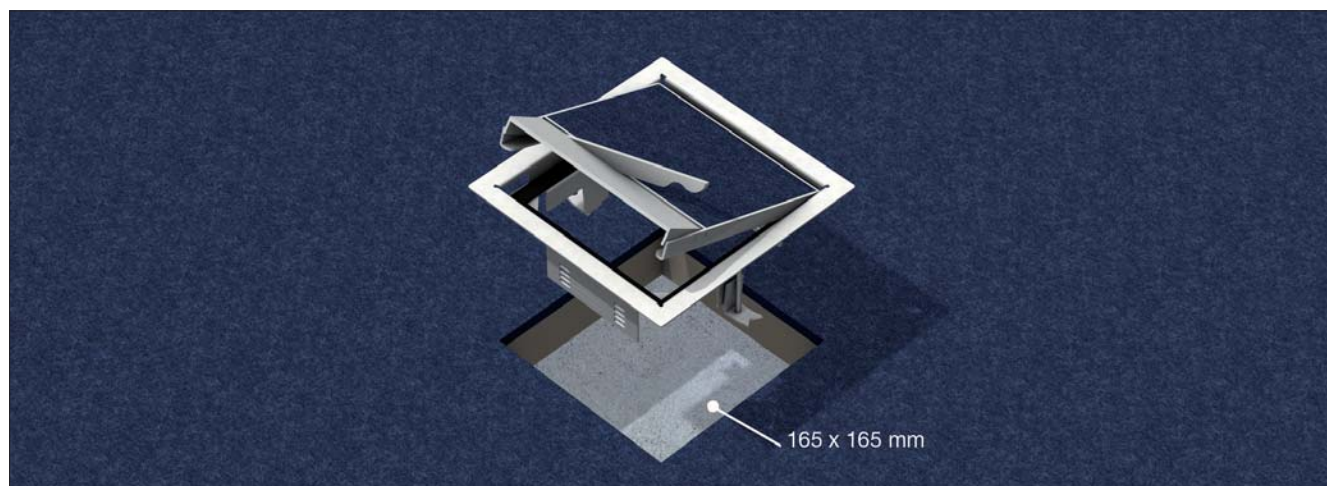


Earthing connection

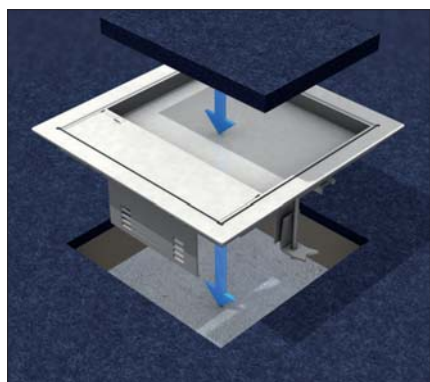
Make an earthing connection between the frame and the cover. Factor the installation unit into the potential equalization.

CARTRIDGE INSTALLATION UNIT MADE OF HIGH-GRADE STEEL, QUADRANGULAR

ASSEMBLY INSTRUCTIONS

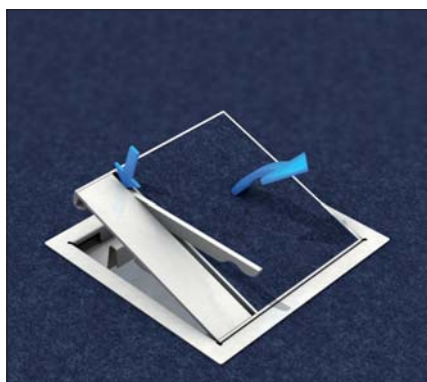


Quadrangular cartridge unit with carpet protection frame made of high-grade steel with outside measurements of 187x187 mm for the installation in hollow floors or raised floors, for a floor cover of 12/22 mm.



Unit

For the installation of a device cup, place cartridge unit UEKDD1-2 V E into the opening.



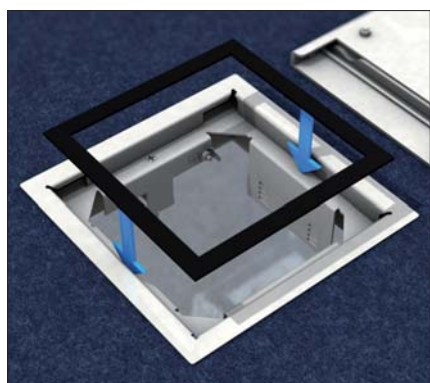
Opening lever

Activate the self-locking opening lever behind the cable outlet and lift the lid out of the frame sideways through the hinge.



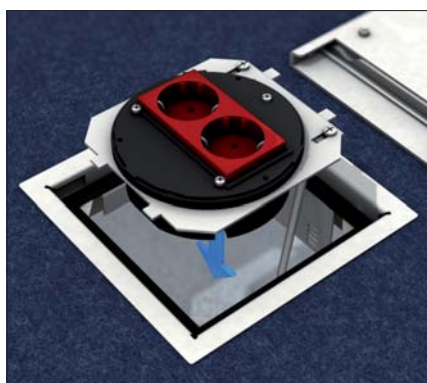
Mounting of claws

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.



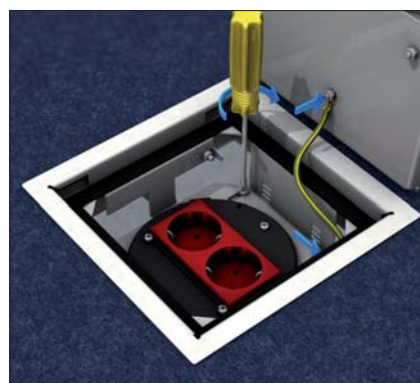
Rubber seal

Glue the rubber seal for impact-noise decoupling into the frame.



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.

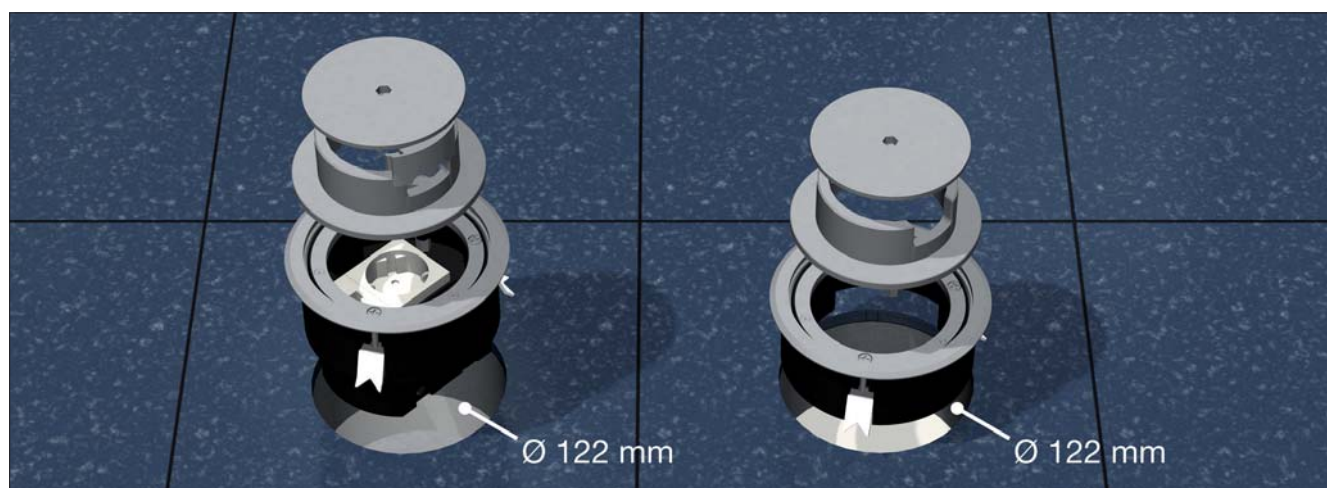


Earthing connection

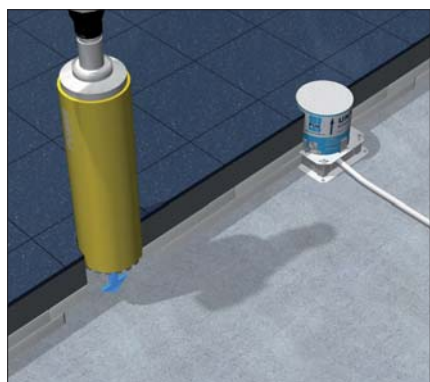
Fixate the plate in the lock-in lead and make an earthing connection between the single outlet frame and the cover. Factor the installation unit into the potential equalization.

SINGLE OUTLET BODO, WET MAINTENANCE FLOORS

ASSEMBLY INSTRUCTIONS

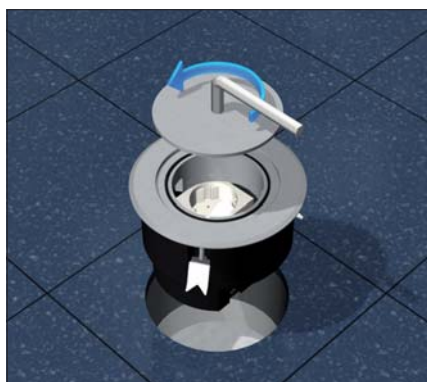


Round single outlet with protection frame made of aluminium, with an outer diameter of 133 mm, equipped with an isolated ground receptacle and an RJ45 data socket (Legrand Typ Cat. 6A STP RJ45, 76573) or inspection chamber. For the installation into screed or raised floors. Other equipment options are available.



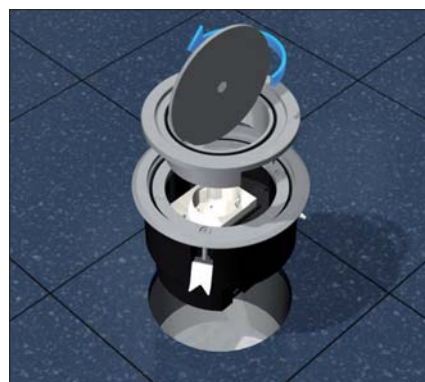
Screed/raised floors

Creating a floor opening in screed or raised floor by means of shuttering / drill bit or by using a hollow floor box with shuttering unit.



Cover

Open cover with the enclosed socket wrench counter clock-wise.



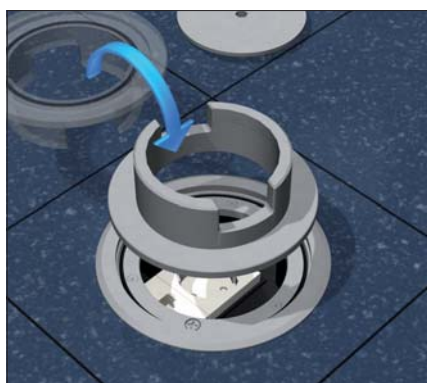
Remove tube

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.



Attach the frame and insert the strain relief

Protection frame have to seal accordingly when used in wet-maintained floors. Insert strain relief from below into the opening and secure the cable. Tighten the claws by means of cross-head screws.



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.

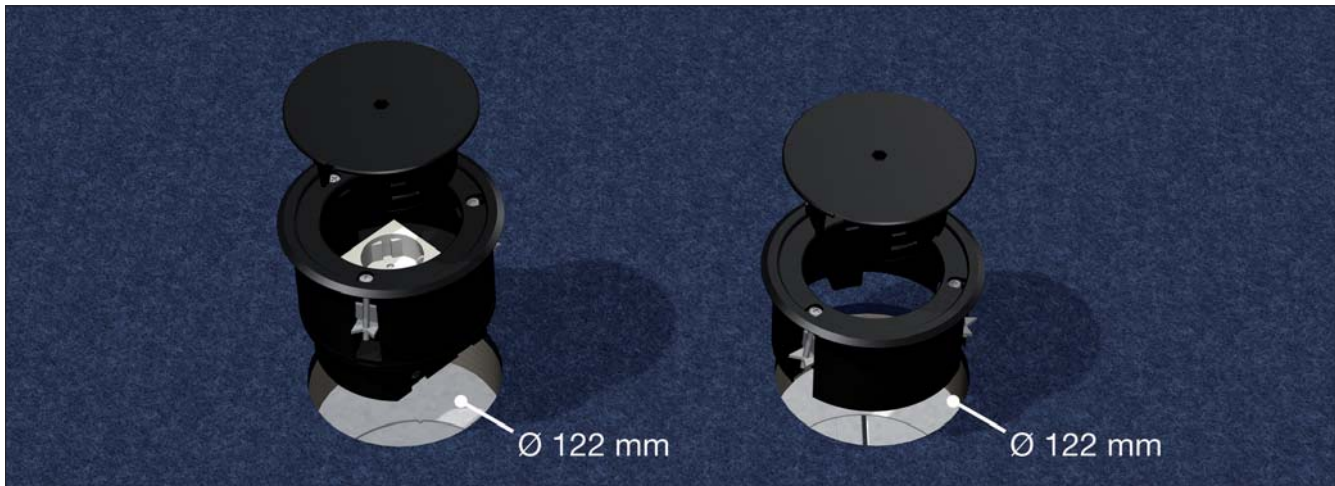


Mounting

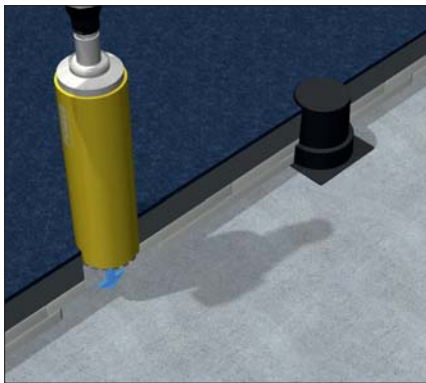
Insert straight or angle plug and bring out cables through cable outlet. Screw tube collet and tube cover tightly.

SINGLE OUTLET BODO, DRY MAINTENANCE FLOORS

ASSEMBLY INSTRUCTIONS

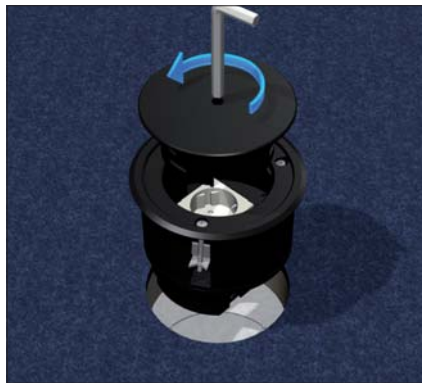


Round single outlet with protection frame made of synthetic material with an outside diameter of 133mm, equipped with an isolated ground receptacle or inspection chamber. For the installation into screed or raised floors. Other equipment options are available.



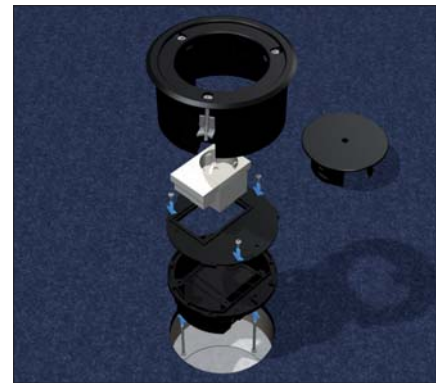
Raised/hollow floors

Creating a floor opening in screed or raised floor by means of shuttering or drill bit.



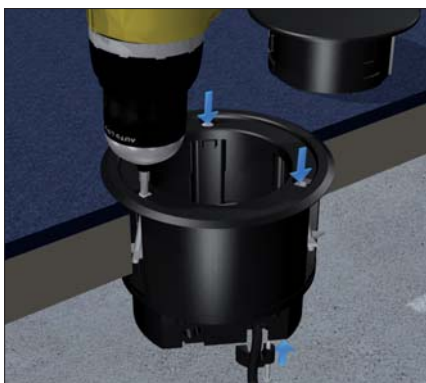
Cable outlet cover

Open cable outlet cover with torx wrench (must be ordered separately) counter clock-wise by pulling it out.



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.



Fasten strain relief and frame

Insert the strain relieves from below and secure cable. Tighten claws with Phillips head screws.



Cable outlet

Place plug and insert cable outlet lid counter clockwise with bayonet locking device.

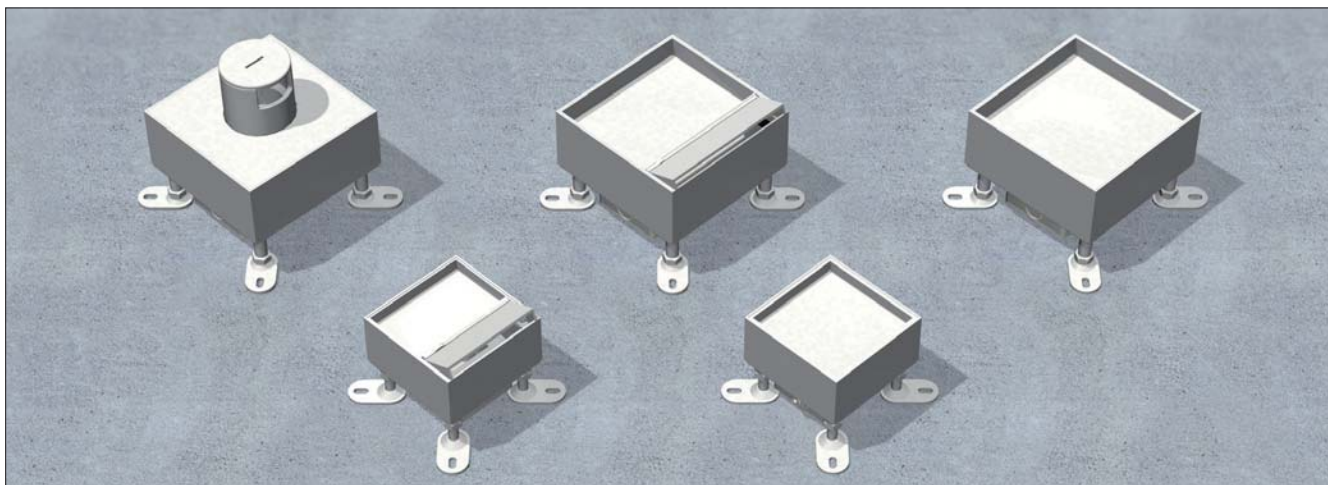


Mounting

Lead the cable from an angular or straight plug through the cable outlet.

SINGLE OUTLET, QUADRANGULAR, DIRECT MOUNTING IN SCREED

ASSEMBLY INSTRUCTIONS

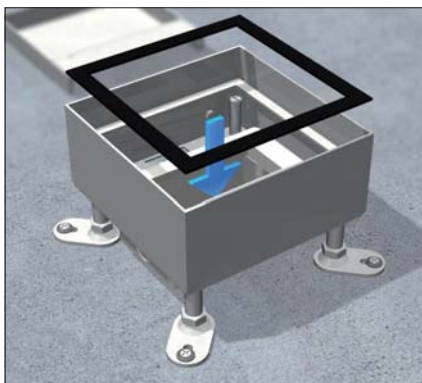


Quadrangular single outlets with outer measurements of 115x115 mm for the integration of up to 2 installation devices of 45x45 mm for direct screed mounting.



Fixation

Mount the four levelling legs onto the rough concrete ceiling with nail plugs.



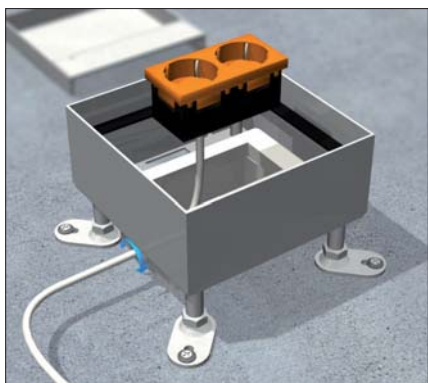
Rubber sealing

Remove the lid and glue the rubber in place.



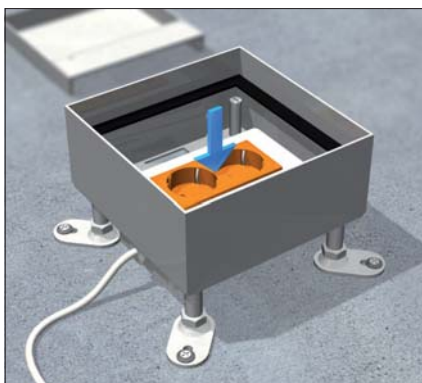
Cable entry

For the cable entry use a tool to break the lateral perforation out of the frame and complete with strain relief.



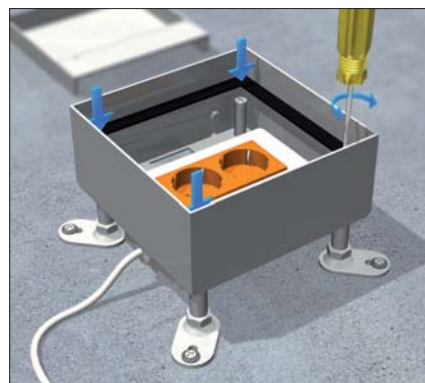
Safety sockets

Install electrical sockets and fuse strain relief.



Assembly

Latch the sockets into the frame. Factor the single outlet into the potential equalization.



Floor adjustment

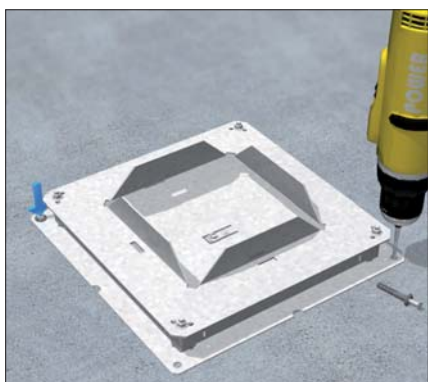
Place the single outlet abreast finished floor level flush with the four levelling screws. Screed can now be applied.

SINGLE OUTLET, QUADRANGULAR, HOLLOW SPACE FLOOR BOX

ASSEMBLY INSTRUCTIONS

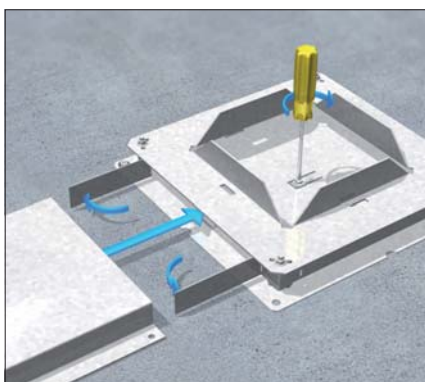


Quadrangular single outlets with outer measurements of 160x160 mm for the integration of up to 2 installation devices of 45x45 mm for fixture in hollow space floor boxes.



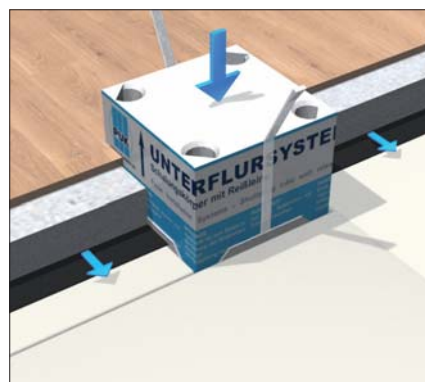
Hollow space floor box

Align floor box in centre to cable run. Mount with two nail plugs.



Duct

Screw on earthing lug. Bend the sides of the floor box open along the perforation. Insert duct all the way into the box.



Shuttering unit

Insert the shuttering unit, process screed to the body, remove the shuttering unit after precipitation.



Fixation

Insert the frame and mount the four levelling legs onto the bottom of the hollow floor box with nail plugs.



Floor adjustment

Adjust the single outlet succinctly above the four levelling screws. Screw in the lock-in leads.



Cover plate

Fix the cover plate onto the device cup with screws.

SINGLE-OUTLET, QUADRANGULAR, HOLLOW SPACE FLOOR BOX

ASSEMBLY INSTRUCTIONS



Fixture of installation tools

Latch installation tools 45x45 mm in the cover plate UARM-4-1 118 2.



Device cup

Place the device cup into plate, insert the ducts into strain relief and screw in the fixing bolt.



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.



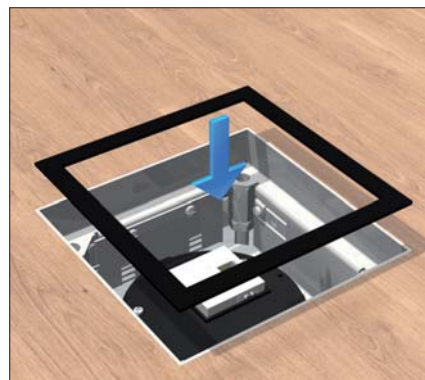
Installation of installation devices

In cover plate UARM-3-1 118
Latch 1 installation device 45 x 45 mm
and 1 installation device 22,5 x 45 mm.



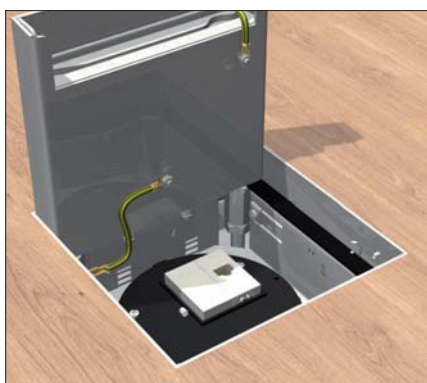
Installation of installation devices

In cover plate UARM-2-1 118
Latch 2 installation devices 22,5x45 mm.



Rubber seal

Glue the rubber seal into the frame.



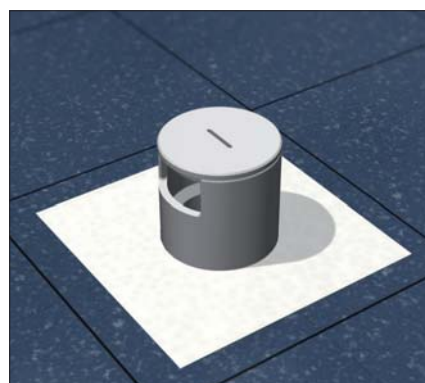
Earthing connection

Establish an earthing connection between the single outlet frame and the cover. Factor the single outlet into the potential equalisation.



Single outlet

Close the cover.



Tube

For wet maintenance floors install tube single outlet and tube.



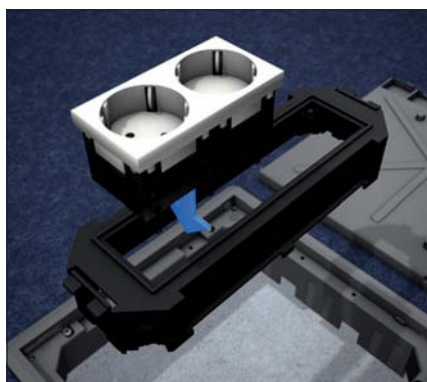
Device cup UG45-4, for latching into an installation unit. Suitable for up to four heavy current engineering installation devices of 45 x 45 mm or eight installation devices of data technology / multimedia of 22,5 x 45 mm.

Installation and mounting must be done only by persons with appropriate electro-technical expertise and experience.



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.



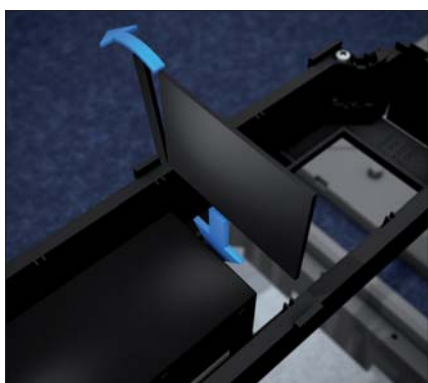
Isolated ground receptacles

Latch isolated ground receptacles into the device cup from the top.



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.



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.



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.



Insertion

Latch the device cup as deeply into the lock-in lead as possible. The device cup can be lowered up to 30 mm.



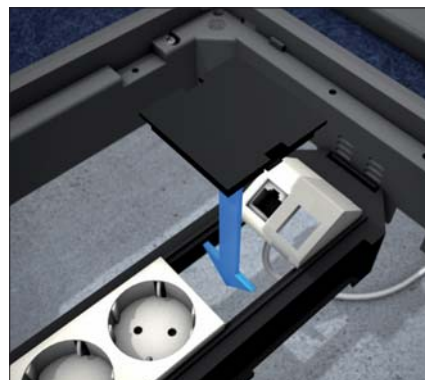
Data coverage

Complete the data coverage using data single jacks and latch into the device cup from the top.



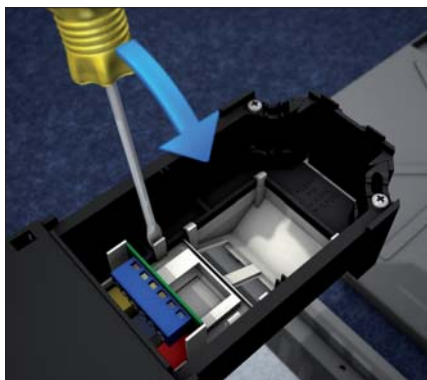
Media modules

Latch the connected media modules into the device cup from the top.



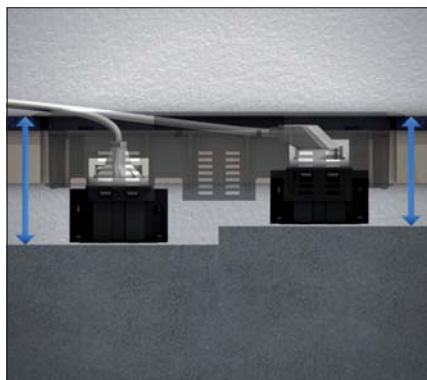
Cover plate

Unused spaces are covered with dummy cover plates.



Releasing of components

Insert screwdriver between previously turned device cup and installation device of data technology, respectively heavy current engineering. Individually loosen latches and remove installation device.



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.



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°.



Heavy current

The device cup can be loaded with up to 4 heavy current engineering components.



Data and media technology

The device cup can be loaded with up to 8 data/media technology components.



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.



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 square installation unit. For up to 4 heavy current engineering installation devices. For the installation of 3-pole connecting lines with plug connector and socket component.



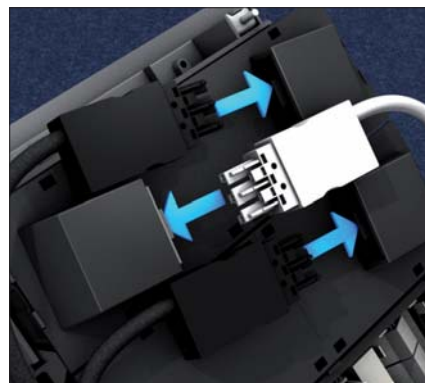
Pre-converted device cups

Delivery of device cups: fully pre-mounted with sockets and pre-wired on connector plugs.



Device mounting cup

Place the pre-converted device cup into the lock-in leads of the installation units as deep as possible.



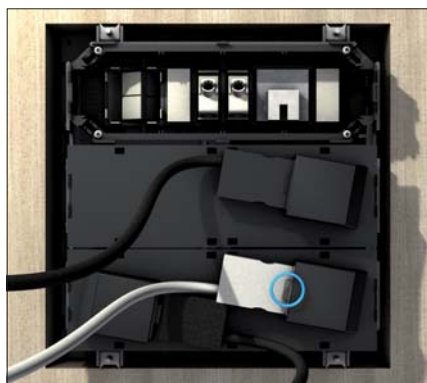
Connecting lines

Select cables according to colour (black: normal 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.



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.



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.



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.



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 square installation unit. For up to 4 heavy current engineering installation devices. For the installation of 3-pole connecting lines with plug connector and socket component.



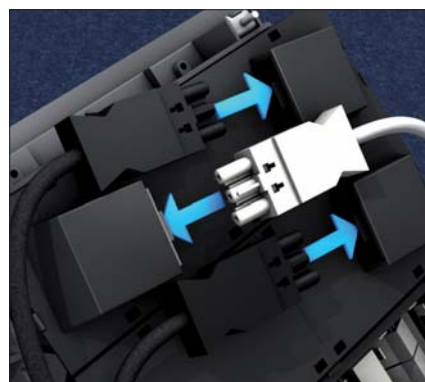
Pre-converted device cups

Delivery of device cups: fully pre-mounted with sockets and pre-wired on connector plugs.



Device mounting cup

Place the pre-converted device cup into the lock-in leads of the installation units as deep as possible.



Connecting lines

Select cables according to colour (black: normal 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.



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.



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.

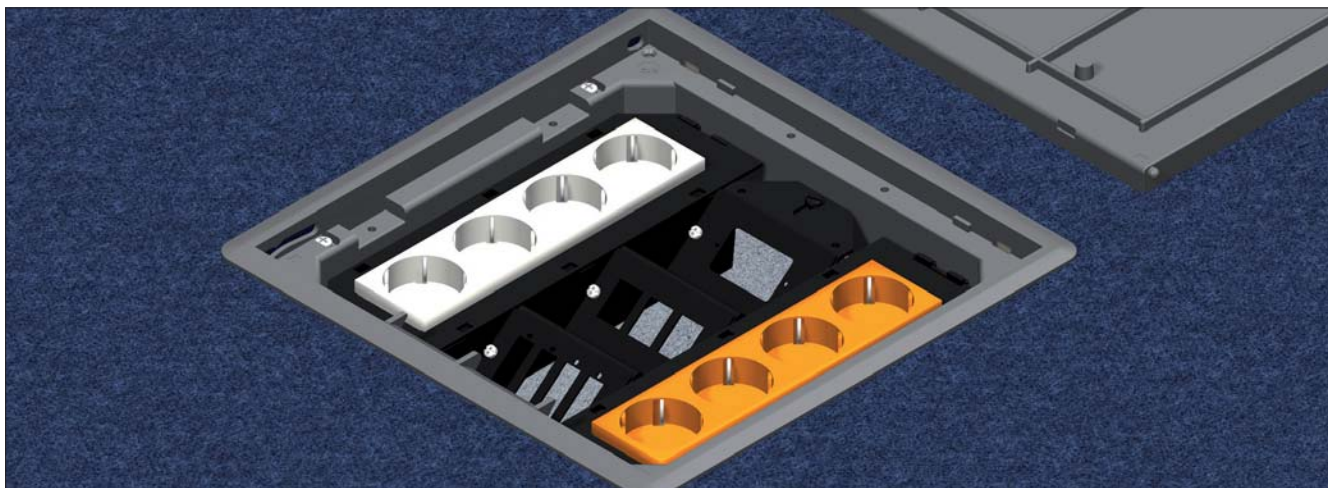


Underfloor distributor

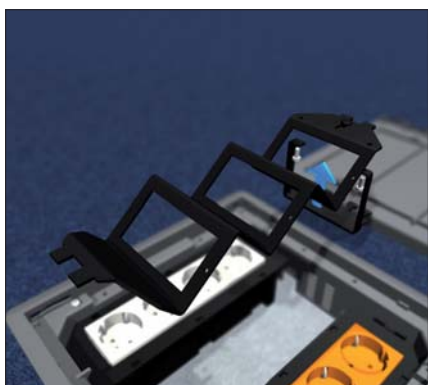
Insert the plug of the 3-pole connecting line in one of the six output sockets of the distributor and complete with 5-pole input.

DATA-DEVICE CARRIERS

ASSEMBLY INSTRUCTIONS

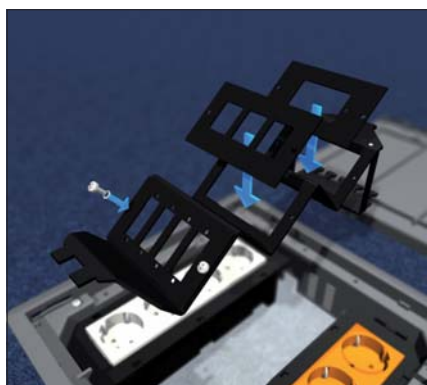


Data device carrier made of coated metal for snapping into the installation unit. For installation of up to nine single installation devices of data, audio and video technology, also for components of plug-in technology.



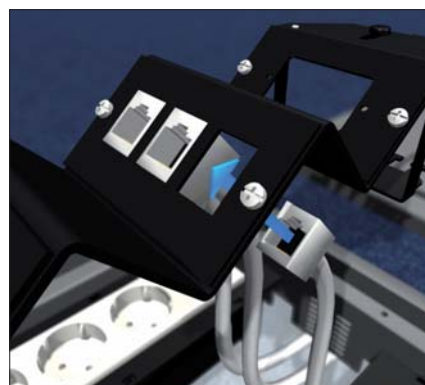
Strain relief

Screw device carrier with strain relief tight before installation.



Fitted board

Equip device carrier with up to three fitted boards according to the product specifications and screw tight.



Single devices

Snap data single jack with feed cable into the fitted board from below. Screw single devices tight according to the specifications.



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.



Tailoring

Complete device cup with the corresponding cables of manufacturer. Note the daylight.

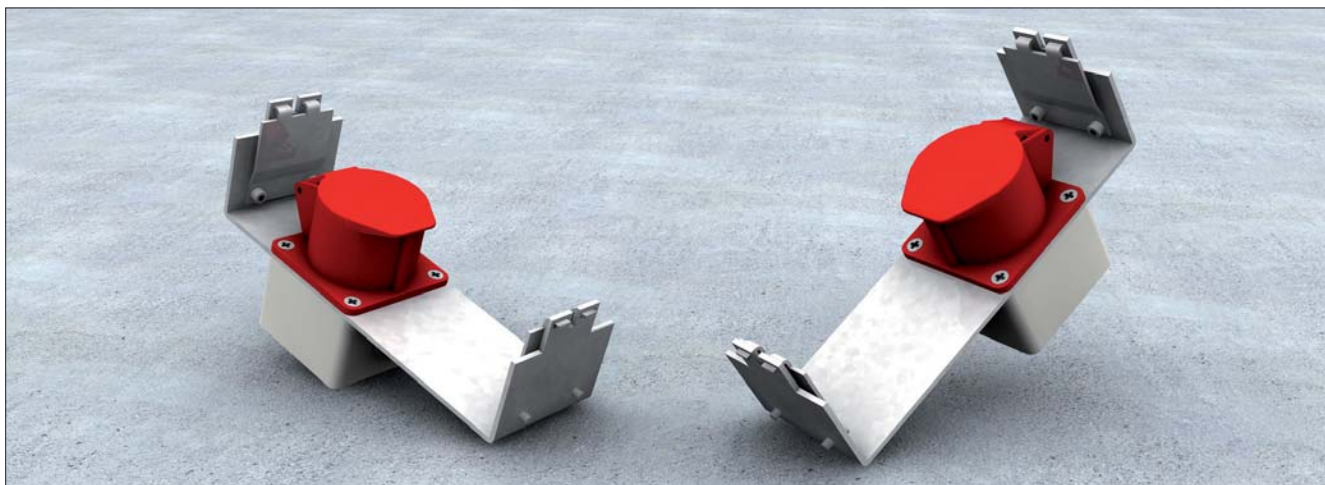


Device carrier

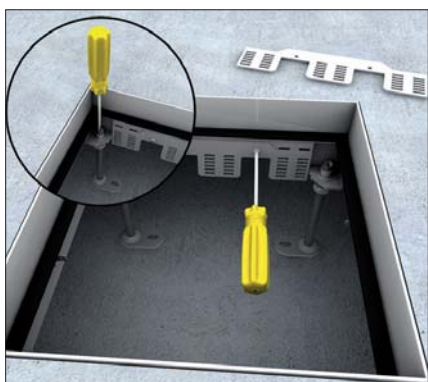
Insert installation devices with couler clip into the device carrier from below and screw tight. Insert cover from above.

DEVICE CARRIER CEE SOCKET

ASSEMBLY INSTRUCTIONS



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 observed before assembly.



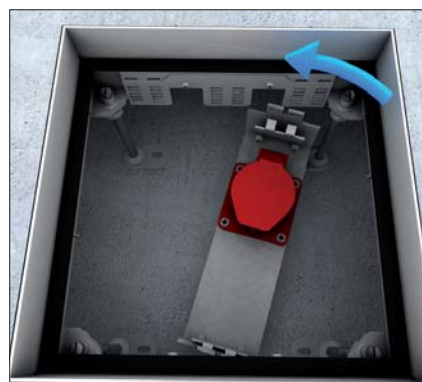
Levelling unit

Position installation frame on finished floor level height flush with levelling legs. Screw the locking ladder set sideways to the frame. Locking ladder set of 50 or 80mm height available.



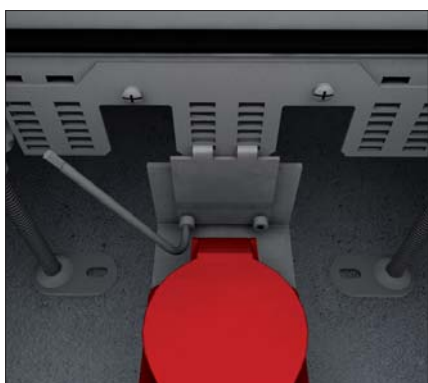
CEE-Connection socket

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.



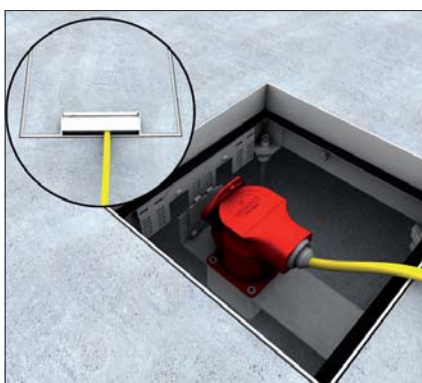
Device carrier

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.



Lock-in lead

Device carrier with CEE socket and box in lock-in lead suitable for floor constructions from 160mm. Always use the lowest locking position. Clamp device carrier firmly with a socket head wrench.



Angle Plug

For floor constructions of at least 185mm, insert angle plug from and cartridge cover with cable outlet. Observe bending radius to avoid pinched cables.



Straight connector

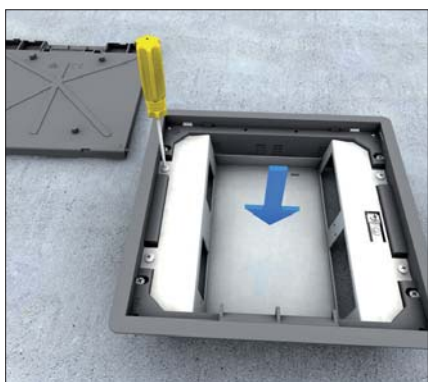
When using a straight connector, note that the cover cannot be closed while in use. Protect installation unit – accident risk!

DEVICE INSERTS

ASSEMBLY INSTRUCTIONS

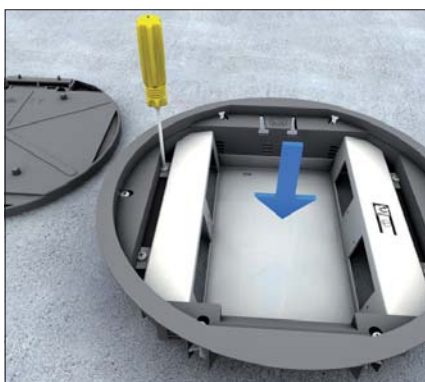


Device insert made of galvanised steel plate. To be inserted into round or quadrangular installation units made of plastic or stainless steel. For the accommodation of up to 4 installation devices of 45x45 mm and of 6 data single jacks. Suitable for floor constructions of at least 65 mm.



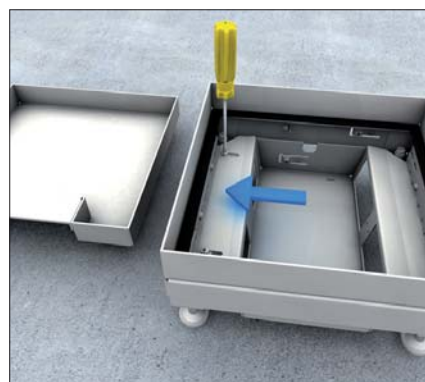
Device insert plastic, square

Place device insert into square plastic installation unit from the top and tighten firmly using four thread-rolling screws.



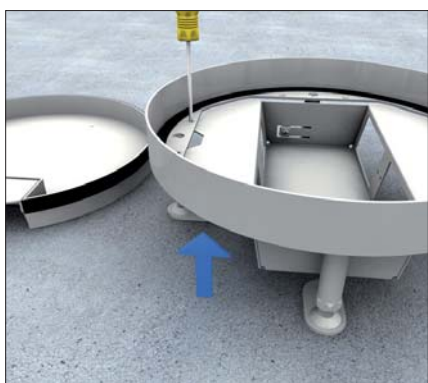
Device insert plastic round

Place device insert into round plastic installation unit from the top and tighten firmly using four thread-rolling screws.



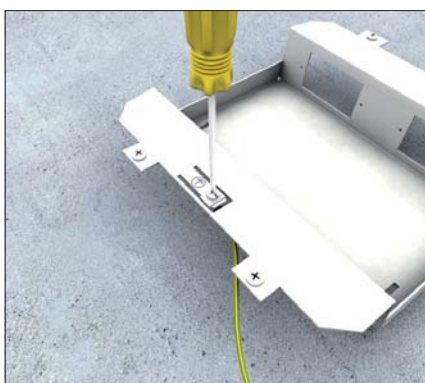
Device insert stainless steel square

Place device insert sideways into square stainless steel installation unit and fix with two sliders in the existing snap-in holes of the levelling unit.



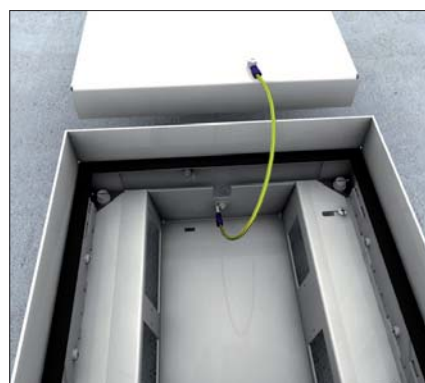
Device insert stainless steel round

Place device insert into round stainless steel installation unit from the bottom and tighten firmly to frame with four countersunk head screws.



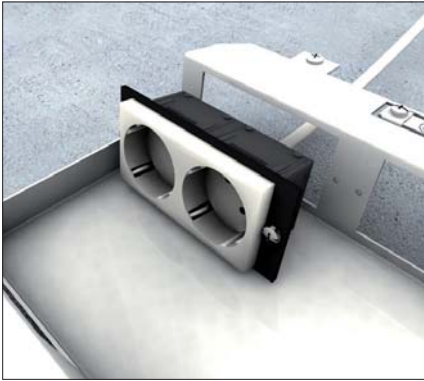
Potential equalisation steel plate

All steel plate parts must be included in the potential equalisation. Screw earthing connection to the existing earthing lug.



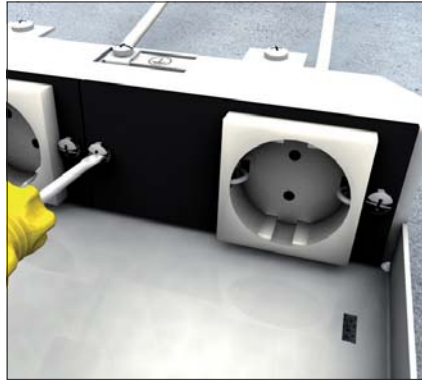
Potential equalisation cover

Create potential equalisation between cover and frame with plug-in earth conductor.



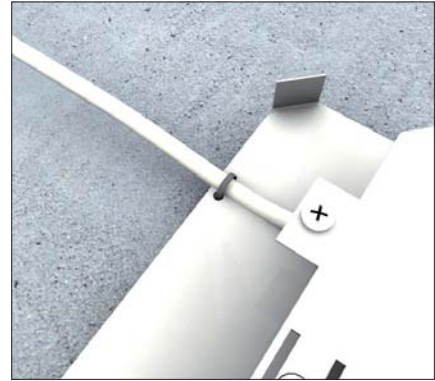
Isolated ground receptacles 33°

Latch 45x45 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.



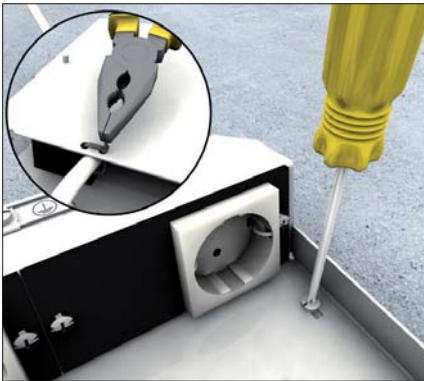
Isolated ground receptacles 0°

Latch installation technology 45x45 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.



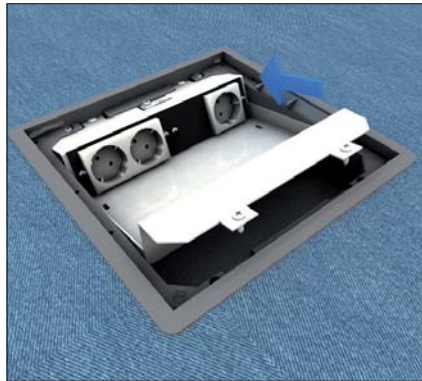
Strain relief

The high-voltage current technology must be secured to the cover plate UGE VR(K/E) against pulling direction using a cable retainer before the installation of the device insert. The strain relief of the data technology occurs directly at the single data jack.



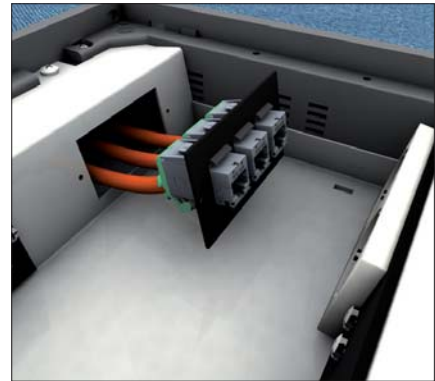
Cover plate

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.



Installation unit

The device insert, pre-assembled to the heavy current technology, must be inserted into the installation unit sideways from the top.



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.



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.



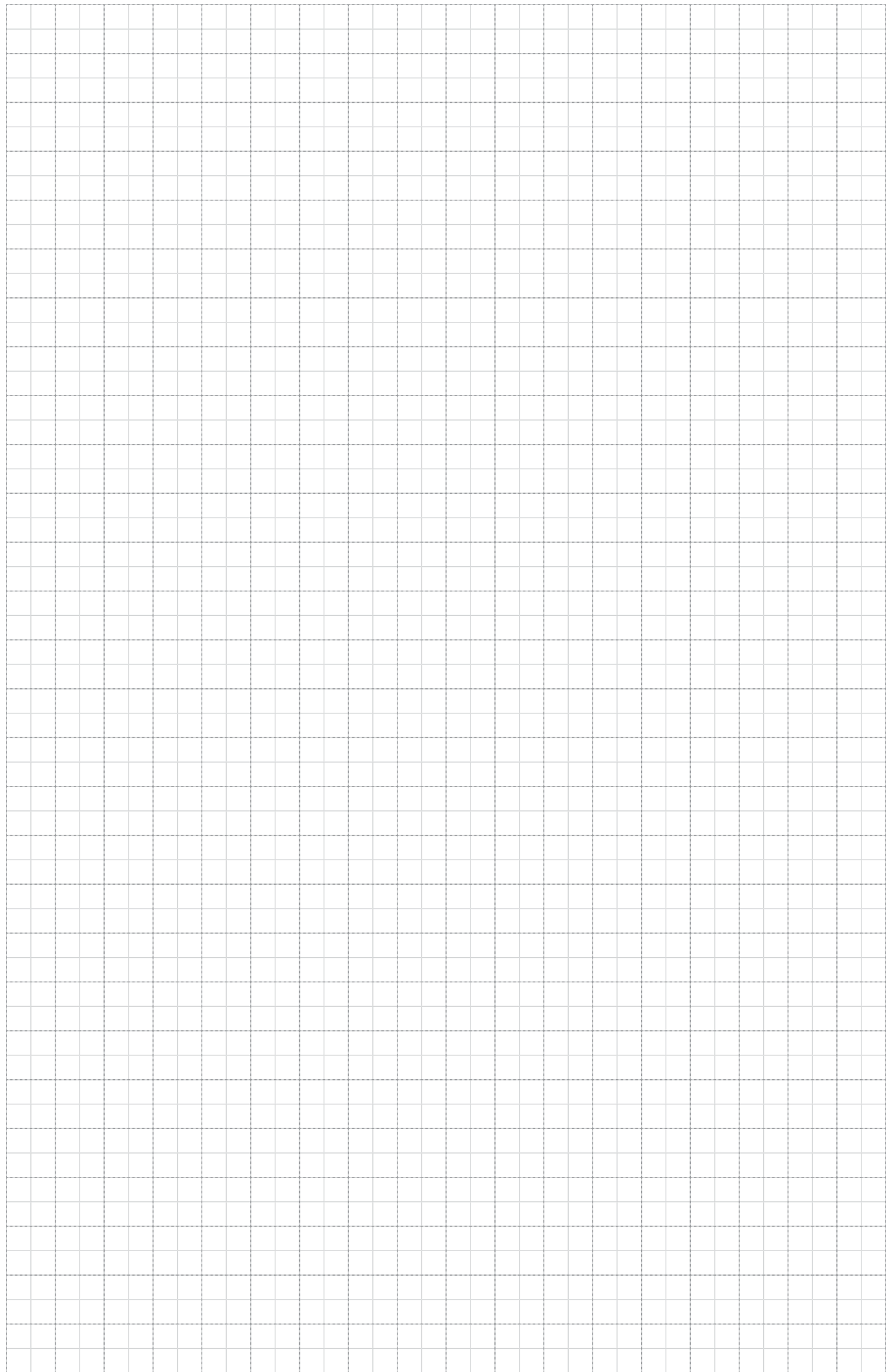
Device insert

Finally, the device insert must be firmly connected to the installation unit with screws.



Angle plugs and straight plugs

High voltage current cables or data technology cables can be connected via angle plugs and straight plugs. Observe space requirements and dimensions of the connection system.



A

SCREED FLUSH DUCT A04-A14

Assembly cover, blank, quadrangular UEBSBMD 185V (A05)
 Assembly cover, blank, quadrangular UEBSBMD 260V (A06)
 Assembly cover, blank, round UEBSBMD 260R (A05)
 Assembly cover, blank, round UEBSBMD 307R (A05)
 Assembly cover, quadrangular UEBSMD 185V (A05)
 Assembly cover, quadrangular UEBSMD 260V (A05)
 Assembly cover, round UEBSMD 122R (A04)
 Assembly cover, round UEBSMD 260R (A04)
 Assembly cover, round UEBSMD 307R (A05)

barrier strip UEBSTR (A13)

carpet flange with hem 0/3 mm UEBSPT AL (A13)
 Cartridge edge UEBSPT E (A11)
 Corner connector UEBSV (A12)
 Corner connector UEBSVE S (A12)
 coupler UEBSV S (A12)

dummy cartridge, quadrangular UEBSBD (A11)
 dummy cover UEBSD (A13)

earthing connector UEBSE (A12)
 Earthing lug set UEBSSEL (A12)
 end piece UEBSSES (A10)
 End piece, cartridge UEBSSESK (A10)

Flat head tapping screw BSS (A14)
 Floor tub UEBSMSW (A07)

Lens head screw LKS (A13)
 levelling support UBDSLF (A12)
 levelling support UEBSST (A07)

mounting Kit 90° bend UEBSMB (A09)
 mounting Kit T-branch UEBSMA (A09)

Plastic side panels UEBSMSP (A07)

Rubber sealing UEBSPGD (A13)

screed anchor UEBSEA (A13)
 screed flush duct, 1 compartment UEBS (A04)
 Steel sheet side panels UEBSMSP S (A07)
 Subsonic noise sleeve socket - levelling support UGM SLF (A12)

transverse cross bar UEBSQT (A13)

HEAVY-DUTY FLOOR DUCT A16-A19

barrier strip UBKTR (A19)
 bottom piece UBK (A16)

coupler UBKPRV (A19)
 coupler UBKPRVE (A19)
 coupler UBKV (A19)

dummy cover UBKD (A16)

end piece UBKEB (A18)

inward profile bend UBKIB (A18)

outward profile bend UBKAB (A18)

side profile UBKPR (A17)
 spacer UBKDB (A19)

B

UNDER FLOOR DUCT SYSTEM B04-B10

channel partition - fire resistant UKBS (B10)
 clip UB (B04)

EasyFoam foam plugs UKBSR (B10)
 end piece UE (B05)

hollow space floor box double, quadrangular UBDHB250 2V (B08)
 hollow space floor box double, round UBDHB250 2R (B08)
 hollow space floor box double, round UBDHB350 2R (B07)
 Hollow space floor box single, quadrangular UBDHB190 1V (B09)

hollow space floor box triple, quadrangular UBDHB250 3V (B07)
 hollow space floor box triple, quadrangular UBDHB350 3V (B06)
 hollow space floor box triple, round UBDHB350 3R (B06)
 Hollow-space floor box, single, round UBDHB 122R (B09)

mounting sleeve UM (B05)

screed covered duct, 2 compartments UK (B04)
 screed covered duct, 3 compartments UKL (B04)

vertical bend, 2 partitions UVB 2 (B05)
 vertical bend, 3 partitions UVB 3 (B05)

CABLE DUCT SYSTEM B12-B14

barrier strip UKTR (B14)

cable duct assembly cover, quadrangular UKDA 185V (B13)
 cable duct assembly cover, quadrangular UKDA 260V (B13)
 cable duct assembly cover, round UKDA 260R (B13)
 cable duct assembly cover, round UKDA 308R (B13)
 cable duct bottom piece 2 compartments UKR 2 (B12)
 cable duct bottom piece 3 compartments UKR 3 (B12)

dummy cover for cable duct UKD (B13)

end piece UKEB (B14)
 extension accessories UKAZ (B14)

SHUTTERING UNIT B15

Formwork element, round USKR (B15)

Heat-resistant formwork element, quadrangular USKH (B15)
 Heat-resistant formwork pipe, round USRH (B15)

shuttering tube USR (B15)
 shuttering unit quadrangular USK (B15)

ACCESSORIES B16

Bitumen glue UBKM (B16)

grounding clamp UBDHB Z (B16)
 grounding lug UBDEL (B16)

nail plug SNA (B16)
 nail plug UN (B16)

protection strip UGKB (B16)

C

INSTALLATION UNIT MADE OF PLASTIC C04-C07

installation unit - dummy cover - double, quadrangular UEBD2 V (C06)
 installation unit - dummy cover double, round UEBD2 R (C04)
 installation unit - dummy cover triple, quadrangular UEBD3 V (C06)
 installation unit - dummy cover triple, round UEBD3 R (C04)
 installation unit - hinged cover double, quadrangular UEKD2 V (C07)
 installation unit - hinged cover double, round UEKD2 R (C05)
 installation unit - hinged cover triple, quadrangular UEKD3 V (C07)
 installation unit - hinged cover triple, round UEKD3 R (C05)

CARTRIDGE INSTALLATION UNIT ANGULAR C10-C12

cartridge installation unit - dummy cover, single UEBDD1-2 V E (C10)
 cartridge installation unit dummy cover double, quadrangular UEBDD2 V E (C10)
 cartridge unit - hinged cover double, quadrangular UEKDD2 V E (C12)
 cartridge unit - hinged cover single, quadrangular UEKDD1-2 V E (C11)
 cartridge unit - hinged cover triple, quadrangular UEKDD V E (C12)

Dummy cartridge installation unit, triple, quadrangular UEBDD V E (C11)

INSTALLATION UNITS ACCESSORIES C13-C16

Blind cover mounting hole UBP VR (C14)

claw for plastic dummy cover UDBS 40-80 (C16)
 claw for plastic hinged cover UDKS 40-80 (C16)
 claw, flushfloor UDKSEB (C15)
 cover inlay UEBD R (C13)
 cover inlay UEBD V (C13)
 cover inlay, hinged cover, quadrangular UEKD V (C13)
 cover inlay, hinged cover, round UEKD R (C13)

hollow space floor claw for Dummy cover, quadrangular UDBS V 4 (C15)
 hollow space floor claw for Dummy cover, round UDBS R 4 (C15)
 hollow space floor claw for Dummy cover, round UDBS R 6 (C15)
 hollow space floor claws for hinged cover, quadrangular UDKS V 4 (C15)
 hollow space floor claws for hinged cover, round UDKS R 4 (C14)
 hollow space floor claws for hinged cover, round UDKS R 6 (C15)

registering extension, triple UGEARL (C14)
 retrofit kit for device cup UGEA (C14)

sealing bag ULS R (C14)
 shuttering round USK R (C13)
 shuttering, quadrangular USK V (C14)

INSTALLATION UNIT MADE OF HIGH-GRADE STEEL C18-C33

Cable outlet cartridge double, quadrangular, levellable UEKD2 V E (C25)
 Cable outlet cartridge unit tripple, plan, quadrangular UEKD VP E (C27)
 Cable-outlet cartridge unit, tripple, plan, round UEKD RP E (C20)
 cartridge cover, triple, round, levellable UEKD R E (C19)
 cartridge unit - hinged cover triple, quadrangular UEKD V E (C26)
 cover insert, high-grade steel cable outlet cartridge, triple UEKDE R (C30)
 cover insert, high-grade steel cable outlet cartridge, triple UEKDE V (C30)
 cover insert, high-grade steel dummy cartridge, triple UEBDE R (C30)
 cover insert, high-grade steel dummy cartridge, triple UEBDE V (C30)
 cover insert, tube outlet cartridge made of high-grade steel, triple UEBDME R (C30)
 cover insert, tube outlet cartridge made of high-grade steel, triple UEBDME V (C30)

dummy cartridge unit double, quadrangular, levellable UEBD2 V E (C23)
 Dummy cartridge unit, tripple, plan, quadrangular UEBD VP E (C25)
 Dummy cartridge unit, tripple, plan, round UEBD RP E (C19)
 dummy cover, angular UBP V (C23)

grounding angle bracket UGEAR EL (C33)
 grounding line UVA GB (C31)
 grounding line UVA GB1 (C31)

heavy-duty cable outlet cartridge, triple, quadrangular UEKDS V E (C26)
 heavy-duty cable outlet cartridge, triple, round, levellable UEKDS R E (C20)
 heavy-duty dummy cartridge unit, triple, quadrangular UEBDS V E (C24)
 heavy-duty dummy cartridge unit, triple, round, levellable UEBDS R E (C18)
 heavy-duty tube-cartridge unit triple, quadrangular UEBDSM V (C28)
 heavy-duty tube-cartridge unit triple, round, levellable UEBDSM R (C21)

levelling support UBDSLF (C33)
 levelling unit dummy, triple, quadrangular UNE (C29)

Phillips screw UKS (C33)

rubber seal, quadrangular UGD V (C32)
 rubber seal, quadrangular UGD2 V (C32)
 rubber seal, quadrangular UGD3 V (C32)

rubber seal, round UGD R (C32)
rubber seal, round UGDB15 (C32)
rubber strips UGD 20 (C32)

set of registering leads, quadrangular UGEAV (C29)
set of registering leads, quadrangular UGEAV2 (C28)
set of registering leads, round UGEAR (C22)
siphon USH 40 (C33)
Subsonic noise sleeve socket - levelling support UGM SLF (C33)

triple dummy cartridge unit, quadrangular UEBD V E (C24)
Triple dummy cartridge unit, round, levellable UEBD R E (C18)
Tube cartridge unit, triple, round, levellable UEBDM R (C21)
Tube cartridge unit, tripple, plan, quadrangular UEBDM VP WD (C28)
Tube cartridge unit, tripple, plan, round UEBDM RP WD (C22)
tube cover UETD (C31)
tube cover UETD112 (C31)
tube for wet maintenance UET (C31)
tube for wet maintenance UET112 (C31)
tube-cartridge unit triple, quadrangular UEBDM V (C27)

SINGLE OUTLET BODO, ROUND C36-C39

Allen wrench UWZ IS (C39)

rubber sleeve UGM (C39)

shuttering round USK R122 (C39)
Single outlet with floor box and data module, wet-maintenance, round BODO N (C36)
Single-outlet with floor socket outlet, dry maintenance, round BODO T (C37)
Single-outlet with floor socket outlet, wet maintenance, round BODO N3 (C36)
Single-outlet, dry maintenance, round, empty BODO TL (C38)
Single-outlet, wet maintenance, round, empty BODO NL (C37)

Torx key UWZ TS (C39)
tube cover UETD80 (C39)
tube for wet maintenance UET80 (C39)

SINGLE OUTLET, QUADRANGULAR C42-C47

Body single outlet UEBD1 G45 (C47)
Body single outlet UEBD1-4 G45 (C47)
Body single outlet UEKD1-1 G45 (C47)
Body single outlet UEKD1-4 G45 (C47)

Device cup, round, pre-assembled UGR1-4 (C46)
Dummy single-outlet cartridge, quadrangular, levellable UEBD1-1 V E (C42)
Dummy single-outlet cartridge, quadrangular, levellable UEBD1-2 V E (C44)

heavy-duty tube single outlet cartridge, quadrangular, levellable UEBDSM1-2 V (C45)
heavy-duty tube single outlet cartridge, quadrangular, levellable UEBDSM1-4 V (C44)

rubber seal, quadrangular UGD1-1 V (C47)
rubber seal, quadrangular UGD1-2 V (C47)

set of registering leads, quadrangular UGEAV1-2 (C45)
Single-outlet cable cartridge, duplex, quadrangular, levellable UEKD1-4 V E (C43)
Single-outlet cable cartridge, one-piece, quadrangular, levellable UEKD1-1 V E (C42)
Single-outlet cable cartridge, quadrangular, levellable UEKD1-2 V E (C45)
Single-outlet cartridge, dummy-type, 2x, quadrangular, levellable UEBD1-4 V E (C43)

DEVICE INSTALLATION CUP AND DEVICE CARRIER D04-D11

Adapter board data technology UBE AMPSL TV (D04)
Adapter board data technology UBE BTR (D04)
Adapter board data technology UBE KS (D05)

Cover plate for 1xUDAE UA 1 (D06)
Cover plate for 1xUST45 UAM 1 (D07)
Cover plate for 2x automatic line protection UALS 113 (D07)
Cover plate for 2x UDAE22 UARM-2-1 (D04)
Cover plate for 2xUST45 UAM 2 (D06)
Cover plate for 3x UDAE22 UARM-3-1 (D04)
Cover plate for 3xUDAE UA 3 (D06)
Cover plate for 4xUST45 UAM 4 (D06)
Cover plate snap-in UAVS 113 (D11)
Cover plate, blind UA B 113 (D07)
Cover plate, blind UA B 226 (D11)
Covering, blind UAA B (D07)

Device cup assembly carrier audio/video technology UGET 2 KM (D08)
Device cup assembly carrier data technology UGET 1 RM (D09)
Device cup assembly carrier data technology UGET 2 AMP (D09)
Device cup assembly carrier data technology UGET 2 AMPSL (D09)
Device cup assembly carrier data technology UGET 2 BTR (D08)
Device cup assembly carrier data technology UGET 2 COR (D08)
Device cup assembly carrier data technology UGET 2 GG45 (D09)
Device cup assembly carrier data technology UGET 2 KR (D09)
Device cup assembly carrier data technology UGET 2 RMSC (D09)
Device cup assembly carrier fibre optic technology UGET 2 LCDM (D07)
Device cup assembly carrier fibre optic technology UGET 3 SCD (D07)
Device cup assembly carrier fibre optic technology UGET 3 SCS (D07)
Device cup assembly carrier installation devices UGET 1 UST45 (D08)
Device cup assembly carrier plug-in systems UGET 1-5PCOM (D10)
Device cup assembly carrier plug-in systems UGET 1-5PK (D10)
Device cup assembly carrier plug-in systems UGET 2-3PK (D10)
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Device cup, quadrangular, open UG45 (D11)
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device separation plate UTG 75 (D04)

DATA-DEVICE CARRIERS D14-D19

Adapter board audio technology UDEP XLR (D15)
Adapter board audio/video technology UDEP DSUB (D15)
Adapter board audio/video technology UDEP KM (D15)
Adapter board blind UDEP B (D18)
Adapter board data technology UDEP AMP (D16)
Adapter board data technology UDEP AMP SL (D16)
Adapter board data technology UDEP BTR (D16)
Adapter board data technology UDEP COR (D16)
Adapter board data technology UDEP GG45 (D16)
Adapter board data technology UDEP HAR (D16)
Adapter board data technology UDEP KEL (D17)
Adapter board data technology UDEP KR (D17)
Adapter board data technology UDEP RM (D17)
Adapter board data technology UDEP RMSC 2 (D17)
Adapter board data technology UDEP RMSC 3 (D17)
Adapter board data technology UDEP SYS 2 (D17)
Adapter board light wave technology UDEP SCD (D15)
Adapter board light wave technology UDEP SCS (D15)
Adapter board module plug systems UDEP 3PK (D19)
Adapter board module plug systems UDEP 5PCOM (D19)
Adapter board module plug systems UDEP 5PK (D19)
adapter board, data technology UDEP LEX (D18)

device carrier data, 3x UDEP UGETD (D14)

strain relief UGETD UZ (D14)

DEVICE CARRIER D22

cover UAA B 65 (D22)

device carrier audio / video technology UGETD KM (D22)

device carrier blind UGET B (D22)
Device carrier CEE socket UGET CEE (D22)
device carrier, 3x AMP/ACO UGET 3-1 (D22)
device carrier, 3x UDAE UGET 3-3 (D22)

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Device insert triple, for installation unit high-grade steel quadrangular UGE VE (D25)
Device insert triple, for installation unit high-grade steel round UGE RE (D25)
Device insert, triple, for installation unit plastic quadrangular UGE VK (D24)
Device insert, triple, for installation unit plastic round UGE RK (D24)

End plate for high-grade steel units UGE VRE (D26)
End plate for plastic units UGE VRK (D26)

insert board, shockproof socket UGEE 1 UST45 (D25)
insert board, shockproof socket UGEE 2 UST45 (D26)

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Installation socket with earthing pin, single UST45FR 1 (D29)
Installation socket with earthing pin, tripple UST45FR 3 (D29)

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shockproof socket single UST45 1 (D28)
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cover UAA B 22 (D33)

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Data cover, Corning UDA45-COR (D34)
Data cover, Keystone UDA22-KS (D32)
Data cover, Keystone UDA45-KS (D34)
Data cover, KRONE UDA45-KR (D34)
Data cover, Reichle & De-Massari UDA45-RM (D35)
Data cover, Systimax UDA45-SYM (D35)
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data systems installation device UDAE CAT6 (D35)
data systems installation device UDAEUM (D33)
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snap-in-piece, plug, Wago UVS ST (D40)
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device mounting cup, Wieland UG45WI-2-1 [\(D42\)](#)

device mounting cup, Wieland UG45WI-2-2 [\(D42\)](#)

device mounting cup, Wieland UG45WI-3 [\(D42\)](#)

device mounting cup, Wieland UG45WI-3-1 [\(D42\)](#)

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distributor block UVBWI-5 [\(D43\)](#)

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socket part, Wieland UVBUWI-5 [\(D44\)](#)

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Flat head tapping screw BSS [\(D45\)](#)

label strip UBS [\(D45\)](#)

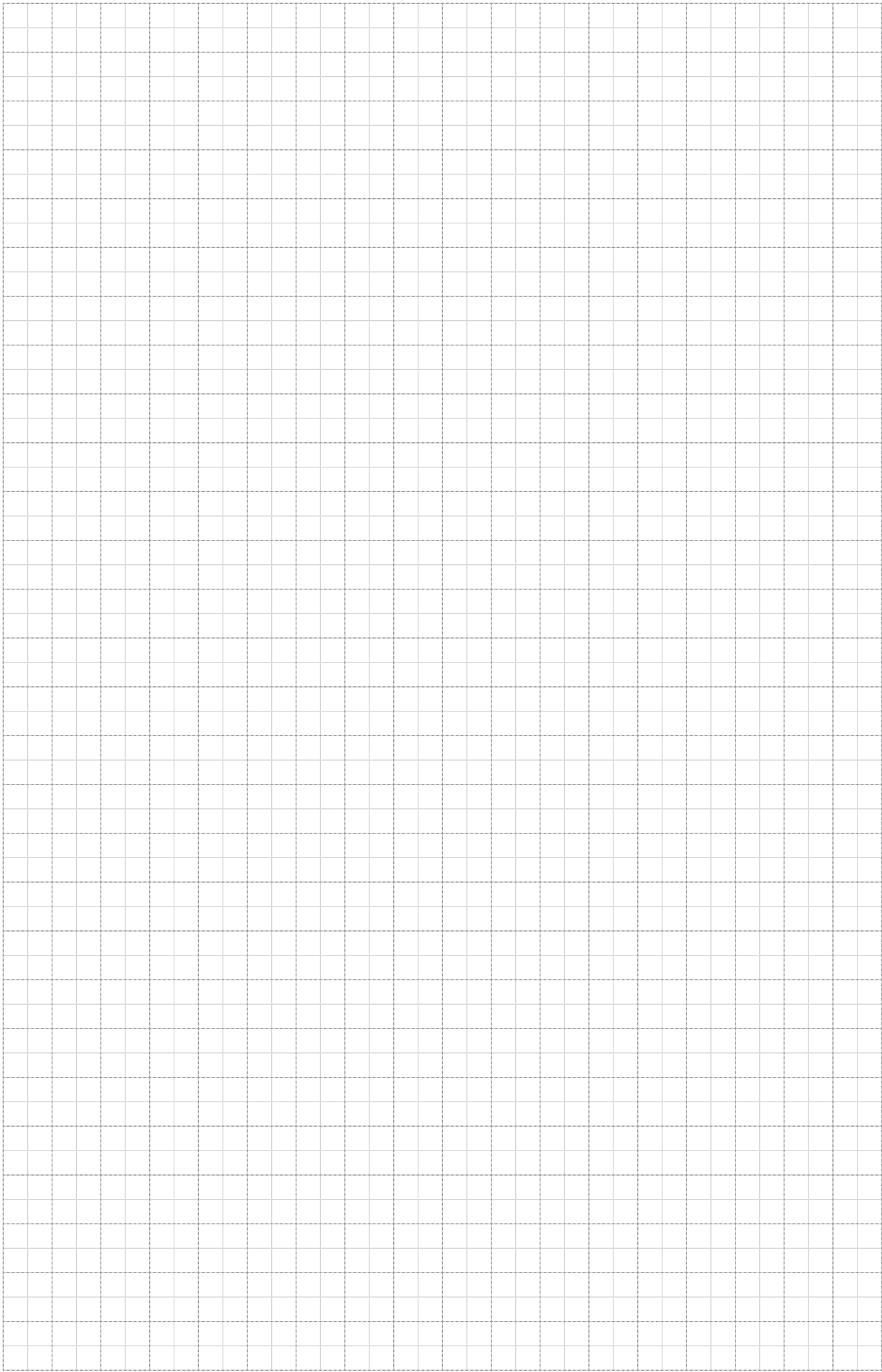
mounting lever UWZ UG [\(D45\)](#)

strain relief UGZ [\(D45\)](#)

strain relief UGZ R [\(D45\)](#)

tapping screw BLS [\(D45\)](#)

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UVBWI-5 [D43](#)
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Legend

B	Width
C	Farbe RAL 7011 (iron grey) ■ RAL 9010 (pure white) □ RAL 9005 (rich black) ■ RAL 9011 (graphite black) ■
D Ø	Diameter
E	Assembly
G	Weight per piece
H	Height
Hmin	Minimum installation height
IPg	IP protection level in used condition
IPn	IP-Schutzgrad im nicht genutzten Zustand
k	Clamping range
KQ	Cable cross section
L	Length
N	Levelling range
Pmax	Maximum permissible load
t	Material thickness
T	Depth
Tk	Load capacity
TL	Separating layer
Tmax	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

PUK-WERKE KG

Kunststoff-Stahlverarbeitung GmbH & Co.
Nobelstr. 45-55
12057 Berlin
Germany

Phone: +49 30 68283-01
Fax: +49 30 68283-266
info@puk.com
www.puk.com