

Junction boxes T series

Versatile, sturdy, intelligent

OBO
BETTERMANN



Covers
available
in various
colours

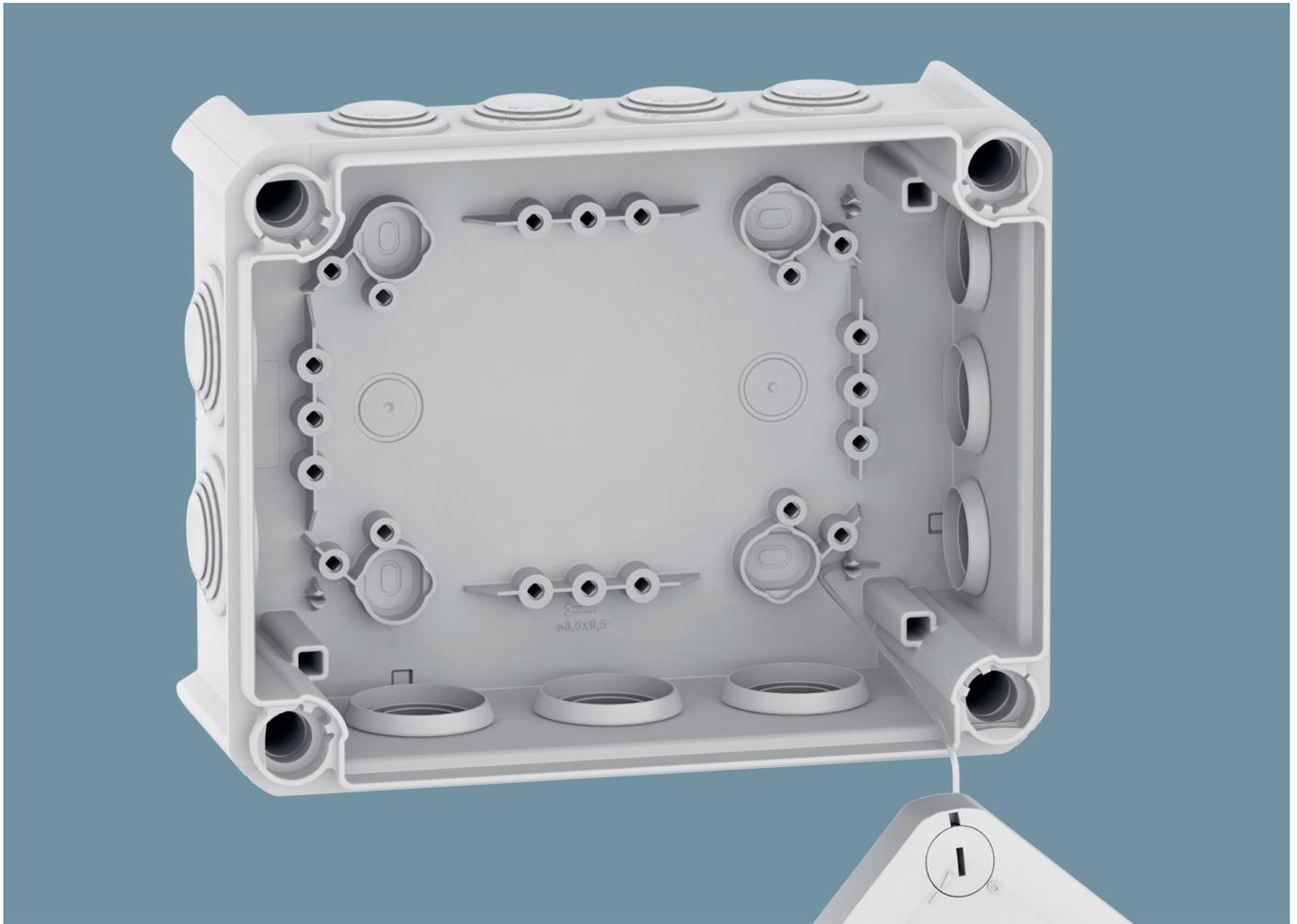
Modular structure, intelligent construction, practical details – these are the T series junction boxes. They are as varied as the requirements placed upon them and, due to their stable construction, the OBO developers have, through a stable construction, ensured that the T series can also withstand the harshest conditions. This makes them true all-rounders, both indoors and outdoors.

Advantages of the T series at a glance:

- Manufactured from halogen-free polypropylene
- Flexible wiring compartment in different shapes and sizes
- Different colour circuits
- Checking of electrical components on the variants with transparent cover

- High-quality materials with sensible thicknesses
- Can beat weathering conditions in indoor and protected outdoor areas
- UV-stabilised plastic
- IP66 protection class

Thought-out down to the last detail



Countless well-thought-out details make the T series a true all-rounder: Cleverly arrayed mounting points create versatile mounting options for the interior. Should the junction box be fastened through the back wall, the supplied screw cover caps will cover the opening again. Break-out openings in the base simplify the insertion of cables directly out of the appropriate mounting substrate. Corner domes separate the fastening of the junction box from the interior, ensuring a particularly torsion-resistant box.

Other practical details include:

- Alignment markings for alignment with a chalk line
- Captive cover lock prevents the cover from falling and getting lost
- Sash locks provide fast and secure fastening and sealing of the cover
- Condensation water opening, which can be pushed in as necessary

As varied as the applications

With its wide range of variants, the T series can offer the right junction box for any installation challenge – and each one of the junction boxes masters its task with flying colours: From the small round one (T25), to the medium-sized one (T100) right up to the very large one (T350). In addition, two different cover heights provide additional flexibility in the wiring compartment.



With plug-in seal



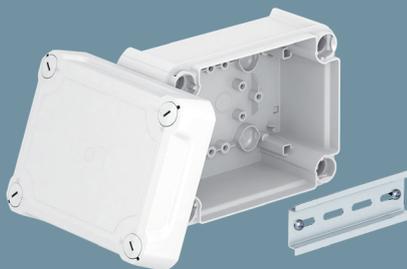
Closed



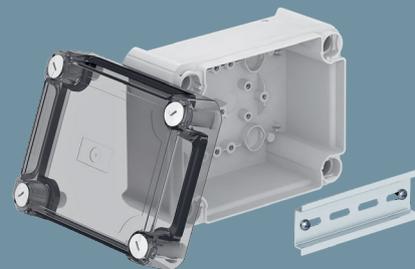
With entry openings and elevated cover



With insertion openings and elevated transparent cover



Closed with elevated cover



Closed with elevated transparent cover



With pre-marked openings



With Modul 45 sockets

The T series can offer the right solution for these areas:

- Warehouses, sports halls and car parks
- Protected exterior areas, such as roof overhangs
- Escape route lighting for the maintenance of electrical function



Fireproof connections with the Fire-Box

The FireBox is the junction box from the OBO portfolio that has been approved for the maintenance of electrical functionality according to DIN 4102. Its core is the ceramic connection terminals in the interior, which reliably prevent a short-circuit in the event of fire and, in combination with the thermoplastic housing, form a test-approved fire protection system.

Water-tight duo: The T series and the Aquasit cold casting compound

In combination with the Aquasit cold casting compound, even installation in damp environments is no problem for the T series. Casting with Aquasit achieves water-tightness of the junction box. This allows water-tight installations on riverbanks, in car washes, in the garden or in a sump pump.



Make use of our online catalogue for even more information:



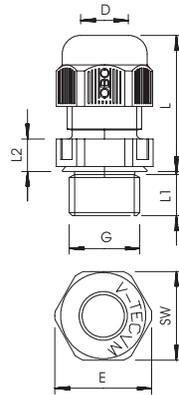


Cable glands V-TEC VM and V-TEC VM L

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO.

- Fast and convenient means of cable entry for junction boxes and housings
- With the integrated sealing lip and the special OBO lamella technology, protection class IP68 is achieved
- Strain relief and tightness have been tested to DIN EN 62444
- The connecting threads are metric and are therefore suitable for universal use
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: $-20\text{ }^{\circ}\text{C}$ to $+65\text{ }^{\circ}\text{C}$

V-TEC VM



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G	D	SW	E	L min.	L max.	L1	L2
	mm	mm	mm	mm	mm	mm	mm
M12 x 1.5	3.5–7	15	16.5	18.5	23.5	8	5
M16 x 1.5	4.5–10	20	22	21.5	29	8	5
M20 x 1.5	6–13	24	27	23.5	30.5	10	6
M25 x 1.5	9–17	29	32	26	35	10	6
M32 x 1.5	15–21	36	41	29	40	11	6
M40 x 1.5	16–28	44	50	36	46	11	7
M50 x 1.5	23–35	54	60	43	52	12	8
M63 x 1.5	36–48	67	75	48	60	12	9

Cap nut cable gland, plastic metric

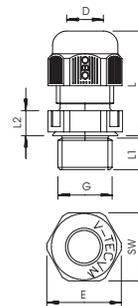
PA



Cap nut cable gland, metric thread, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 LGR	Light grey	500	50	0.318	2022862
V-TEC VM16 LGR	Light grey	500	50	0.638	2022864
V-TEC VM20 LGR	Light grey	600	50	0.856	2022866
V-TEC VM25 LGR	Light grey	300	25	1.360	2022868
V-TEC VM32 LGR	Light grey	240	20	2.235	2022870
V-TEC VM40 LGR	Light grey	120	10	3.467	2022872
V-TEC VM50 LGR	Light grey	60	5	5.466	2022874
V-TEC VM63 LGR	Light grey	60	5	8.306	2022876

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads of the cable glands are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking. Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet. Temperature range: $-20\text{ }^{\circ}\text{C}$ to $+65\text{ }^{\circ}\text{C}$.



Robust

With long and short connection

Excellent protection

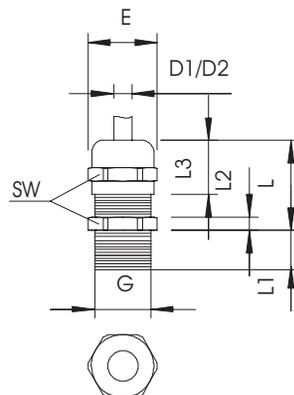
VDE-tested

Cap nut cable gland V-TEC VM MS

Tough conditions are no problem for the brass V-TEC VM. Here too, the well-known V-TEC cap nut design of the cable glands ensures a secure hold of the cables. The protection class IP68 is achieved using separate sealing rings and their special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation will stay secure for a long time to come. The optimum thread adjustment with the right pitch ensures permanent resistance to shaking. Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.



Cap nut cable gland



- Sturdy cable gland to withstand mechanical loads
- The proven V-TEC cap nut design ensures a secure hold of the cables
- The protection class IP68 is achieved using separate sealing rings and their special OBO slat technology
- With metric connecting thread to IEC 423
- Neoprene/NBR sealing ring, polyamide terminal insert
- With pre-mounted sealing ring on the connection thread
- Optimum thread adjustment with the right pitch ensures lasting resistance to shaking
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: -20 °C to +100 °C
- * Prices according to DEL notation

G	D1	SW	E	L max.
	mm	mm	mm	mm
M12 x 1.5	3-6	14	15.5	20
M16 x 1.5	5-9	17	19	24
M20 x 1.5	9-13	22	24	27
M25 x 1.5	11-16	27	30	29.5
M32 x 1.5	14-21	34	36	30
M40 x 1.5	19-27	43	46	33
M50 x 1.5	24-35	55	60	38.5
M63 x 1.5	32-42	65	70	44.5



Cap nut cable gland, metric thread, silver grey, nickel-plated

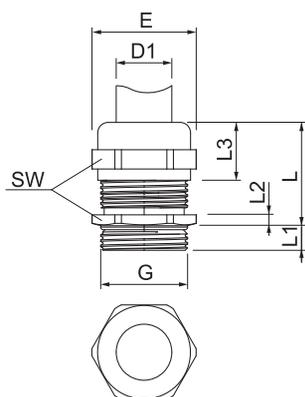


Type	Thread	Material	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 MS	M12x1,5	Brass	50	1.305	2086018
V-TEC VM16 MS	M16x1,5	Brass	50	1.640	2086024
V-TEC VM20 MS	M20x1,5	Brass	25	3.140	2086030
V-TEC VM25 MS	M25x1,5	Brass	25	4.260	2086036
V-TEC VM32 MS	M32x1,5	Brass	20	8.457	2086042
V-TEC VM40 MS	M40x1,5	Brass	5	12.240	2086048
V-TEC VM50 MS	M50x1,5	Brass	5	22.700	2086054
V-TEC VM63 MS	M63 x 1,5	Brass	5	30.300	2086060

With metric connecting thread to IEC 423, robust cap-nut cable gland with large sealing area. Strain relief, wringing protection and tightness over the whole clamping area. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted O sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP68 at 5 bar for 1 hr, max. permitted ambient temperature -20 to +100°C.

* Prices according to DEL notation.

Dimensions



Type	Sealing range D mm	SW mm	E mm	Dim.			
				Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
V-TEC VM12 MS	3-6	14	15,5	20	5	3	11,5
V-TEC VM16 MS	5-9	17	19	24	5	3	15
V-TEC VM20 MS	9-13	22	24	27	6	3,5	16,5
V-TEC VM25 MS	11-16	27	30	29,5	7	4	17
V-TEC VM32 MS	14-21	34	36	30	8	4,5	18,5
V-TEC VM40 MS	19-27	43	46	33	8	4,5	21
V-TEC VM50 MS	24-35	55	60	38,5	9	4,5	25
V-TEC VM63 MS	32-42	65	70	44,5	10	5	31



A small all-rounder

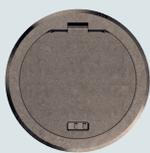
The round floor socket GES R2

With eight different cover variants in plastic and metal, the GES R2 floor socket can be integrated seamlessly into many different floor coverings. In addition, the metal variants with a protection class of IP66 are also suitable for the use in wet-care floors.

Metal



Jet black



Nickel-oxidised



Old copper



Chrome



Old brass



Nickel

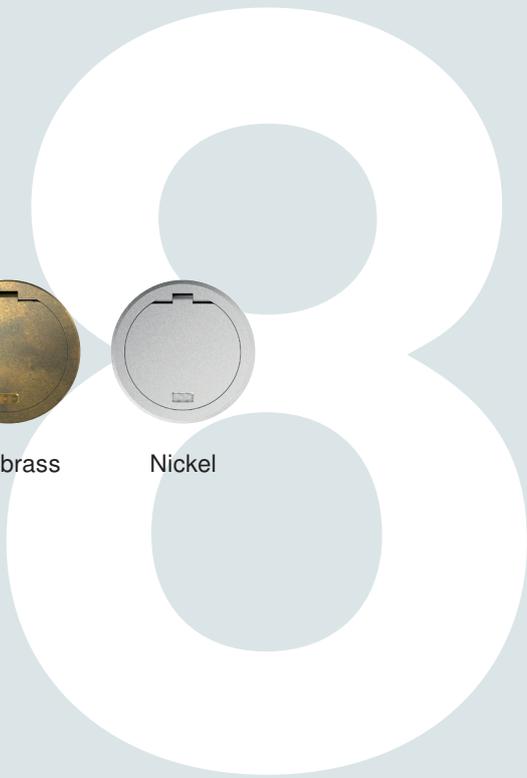
Plastic



Graphite-black



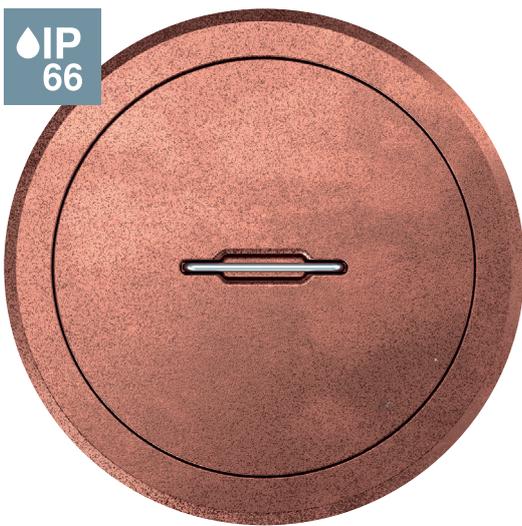
Iron grey





A simple design, high-quality material, extremely sturdy – the round floor socket (GES R2) can be used in all those areas where only small and individual supply points in the floor are required. Thanks to its modular construction consisting of height-adjustable screed cassette, installation box and cover, the round floor socket's use is versatile – from a residential home to a car sales room.

IP
66



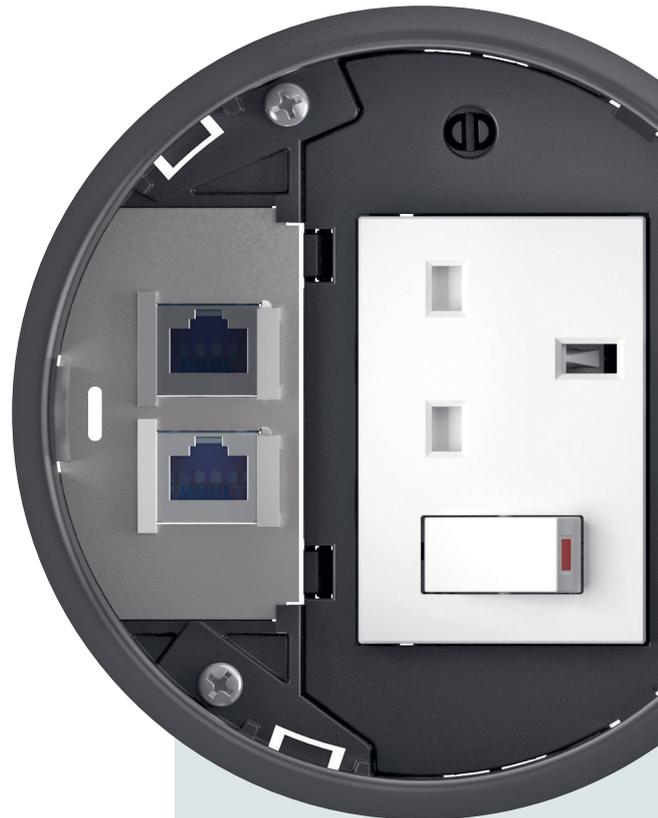
Hinged cover with
snap-in slider

Tube with handle



Blanking lid

The different types of cover openings mean that they can be adapted to the use or cleaning of floors. There is also a variant available with access protection for the use in public spaces.



The GES R2 floor socket has room for two Modul45 units and two data technology connections. Despite its diameter of just 140 mm it has a remarkably spacious interior.

320 Serangoon Road #09-13
Centrium Square
Singapore 218108

Phone: +65 6385 5805
customerservice@obo.sg
www.obo-bettermann.sg



Watch installation
video here

Modular structure. Intelligent construction. Practical details.

Discover the diversity of the **T series**.



A large family is characterised by all kinds of types – the T series is no different to this. This diversity makes the range the matching answer to nearly all installation demands.

Protection rating of up to IP66, depending on the cover

- IP55 T40
- IP65 T25
- IP66 T60 T100 T160 T250 T350
- Material T25–T100 PP polypropylene
- T160–T350 PP / GF polypropylene / fibre-glass-reinforced

T series
Light grey, + Plug-in seals



T series
With closed side walls without entries



T25
Ø 80 x 51



T25 2007 02 9
4 x M25

T40
90 x 90 x 52



T40 2007 04 5
7 x M25



T40 OE 2007 22 3
Closed

T60
114 x 114 x 57



T60 2007 06 1
7 x M25



T60 OE 2007 23 9
Closed

T100
150 x 116 x 67



T100 2007 07 7
10 x M25
T100 M25-M32 2007 08 1
8 x M25, 2 x M32



T100 OE 2007 25 5
Closed

T160
190 x 150 x 77



T160 2007 09 3
7 x M25, 5 x M32
T160 M32 2007 09 7
10 x M32



T160 OE 2007 27 1
Closed

T250
240 x 190 x 95



T250 2007 10 9
9 x M25, 7 x M32



T250 OE 2007 28 7
Closed

T350
285 x 201 x 120



T350 2007 12 5
16 x M32, 8 x M40



T350 OE 2007 30 3
Closed

Address:

320 Serangoon Road #09-13
Centrium Square
Singapore 218108

Phone: +65 6385 5805
customerservice@obo.sg

www.obo-bettermann.com.sg

Brochure





According to the new IEC/EN standards

IEC 60364-4-44

IEC 60364-5-53

surge protection has been mandatory since 2016.



MCF, V 50 and V 20

The new team to combat surge voltages

MCF Compact type 1 + 2 combination arrester



Industrial buildings



Office, commercial and residential buildings

MCF100-3+NPE+FS (TT+TNS) MCF75-3+FS (TNC)

- For industrial and residential buildings
- Lightning protection class 1 to 4
- Meets the requirements to 100 kA (10/350) per SPD
- 25% space-saving



V50 type 1 + 2 combination arrester



Office, commercial and residential buildings

V50-3+NPE-280 (TN+TT)

- For commercial and residential buildings
- Lightning protection class 3 + 4
- Meets the requirements to 50 kA (10/350) per SPD
- 180° turnable version



V20 type 2 surge protection



Office, commercial and residential buildings



Main and sub-distribution buildings

V20-3+NPE-280 (TN+TT)

- Can be used universally in main and sub-distribution for industrial, commercial, residential and office buildings
- Exceeds the increased requirements according to IEC/EN 60364-4-44 (40kA)
- 180° turnable version



OBO Bettermann South East Asia Pte. Ltd.
320 Serangoon Road / #09-13 Centrium Square
218108 Singapore
SINGAPORE (HUB APAC)

Customer Service Singapore:
Office: +65 6385 5805
customerservice@obo.sg

www.obo-bettermann.com.sg



Brochure

Design freedom



The new
UDHOME-ONE
floor socket

The UDHOME-ONE floor socket

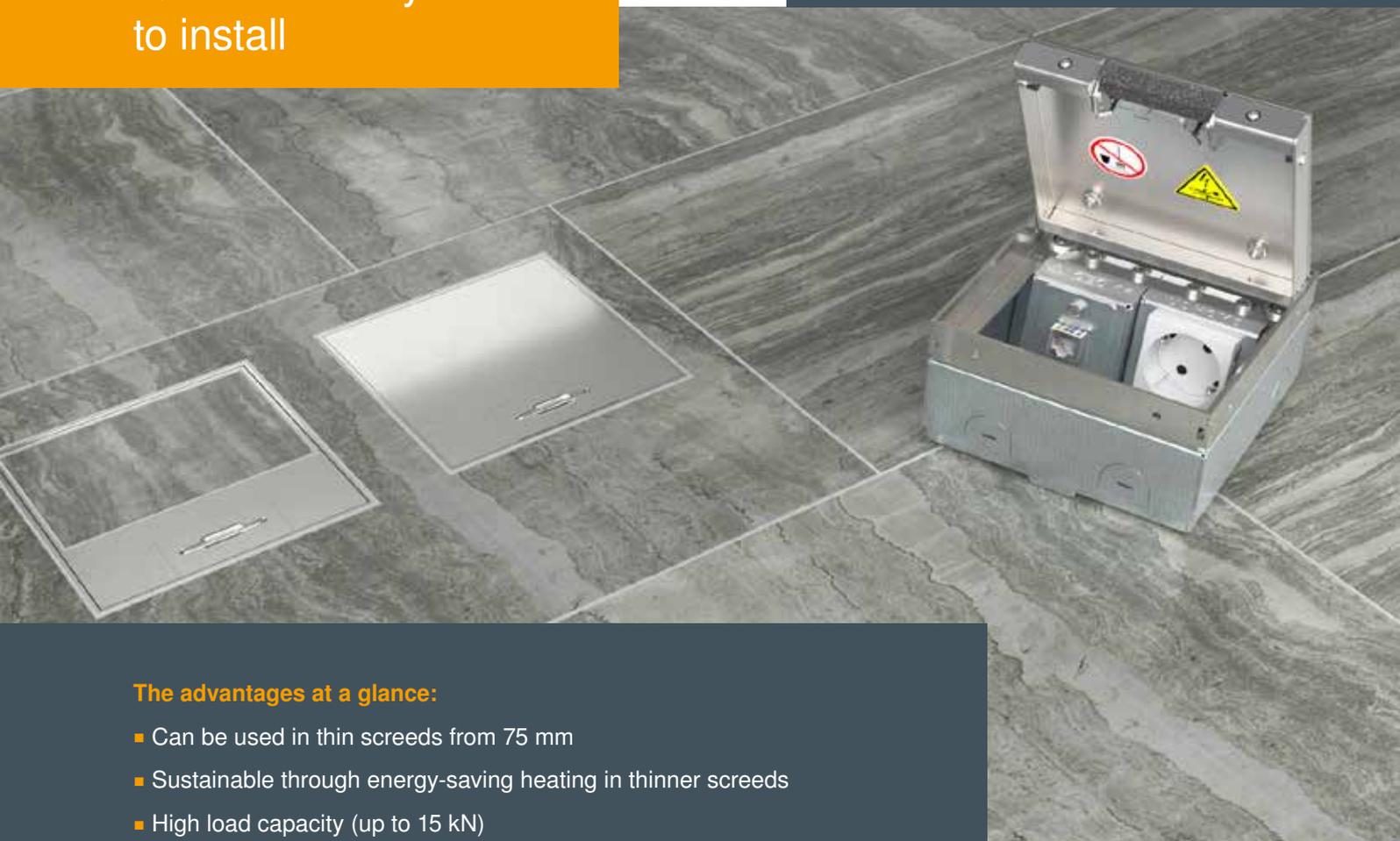
For use in thin screeds

The smallest and most sustainable member of the product family – even flatter and thus more energy-efficient due to the increased heating dynamics.

Height adjustment to floor height

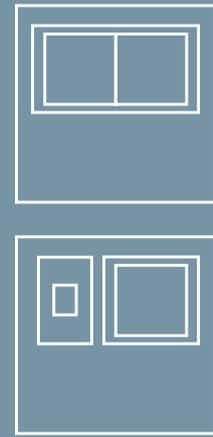
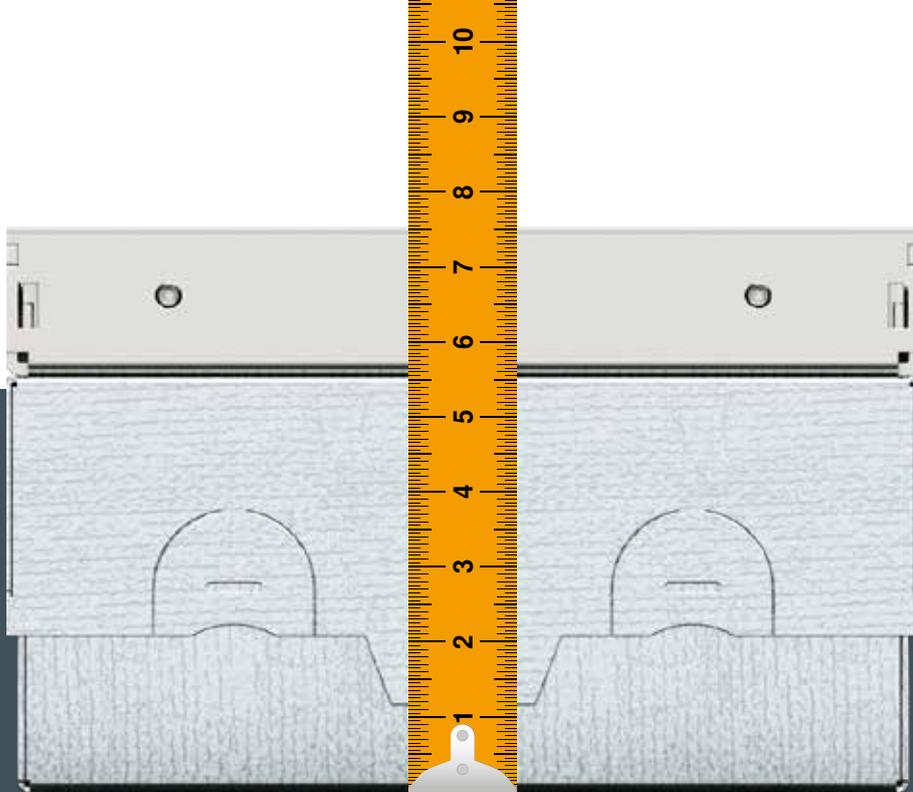
The frame of the UDHOME-ONE can be adjusted to the top edge of the floor covering using four integrated height-adjustment supports. The height-adjustment range of the UDHOME-ONE is always 75–105 mm, regardless of the type of cover.

Quick and easy to install



The advantages at a glance:

- Can be used in thin screeds from 75 mm
- Sustainable through energy-saving heating in thinner screeds
- High load capacity (up to 15 kN)
- Flexible equipment
- Cover can still be closed even when plugs are inserted
- VDE-certified
- Height-adjustment range of up to +30 mm



UDHOME-ONE floor socket

140 x 140

1 Modul 45® device

1 data technology module

Space-saving floor installation

The floor sockets are mounted directly on the raw floor (RFB), connected with flexible installation pipes and then worked flush into the screed. Thanks to the height-adjustment mechanism, the UDHOME-ONE can also be installed in floors of up to 105 mm high.

Device installation

The UDHOME-ONE floor socket is preconfigured with VDE installation devices. A variant with an empty mounting support is also available.

Various data technology plates are available for the mounting of the data technology modules.

A double Modul 45® mounting support is available as an accessory for the later conversion of a UDHOME-ONE.



Pre-equipped with:

1 Modul 45® socket

1 data technology blanking plate



Data technology plate for optional installation of a data technology module. Optionally, a mounting support to accept up to 2 Modul 45® installation devices is available.

OBO Bettermann Holding GmbH & Co. KG

P.O. Box 1120
58694 Menden
GERMANY

Customer Service

Tel.: +49 (0)2373 89-17 00
Fax: +49 (0)2373 89-12 38
export@obo.de

www.obo-bettermann.com

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Building Connections

