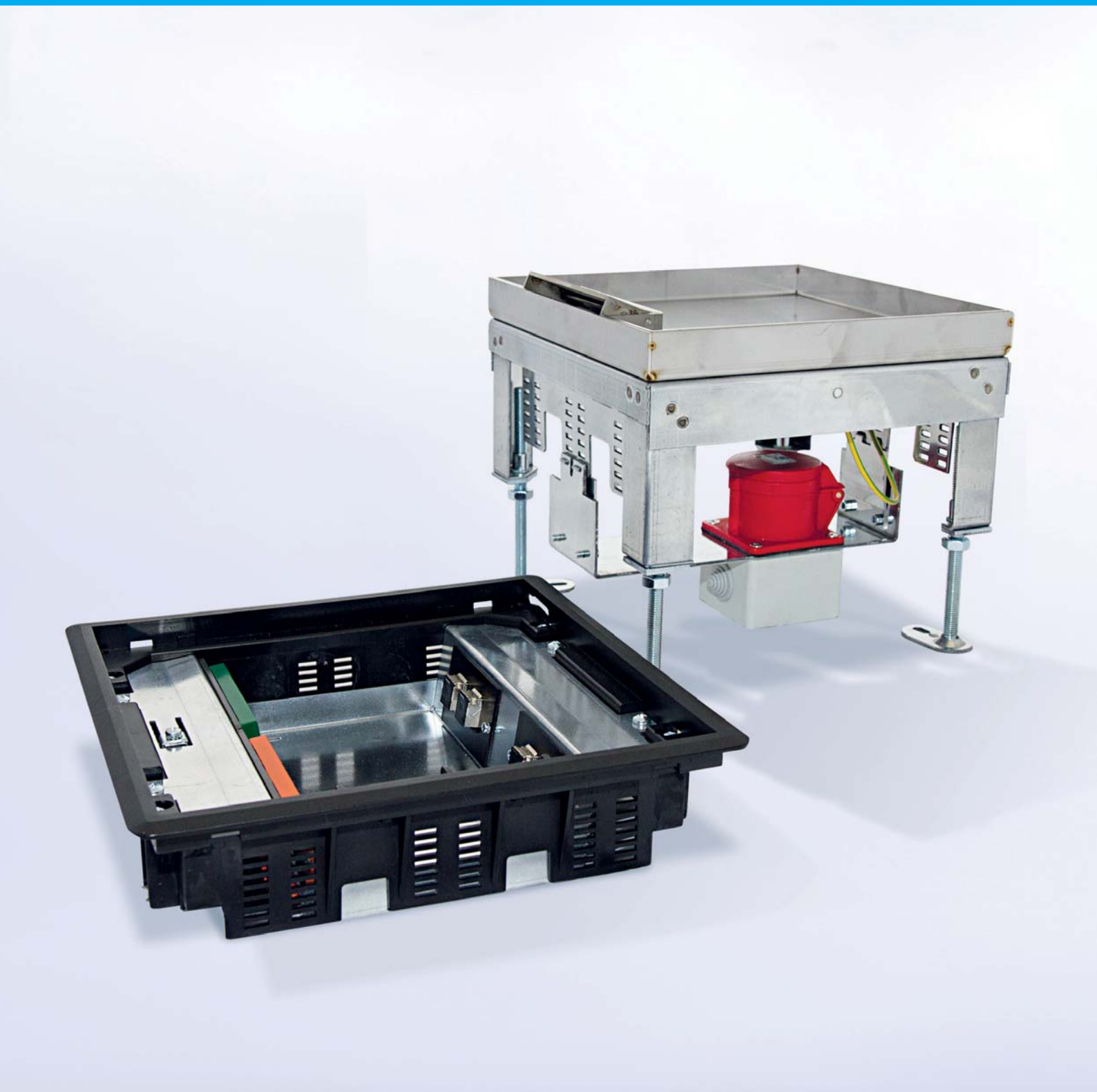
TECHNICAL INFORMATION

CASING DEPTH DEVICE CUP INCLUDING INSTALLATION DEVICE



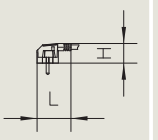
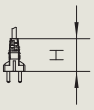
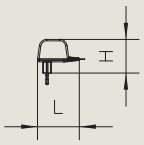
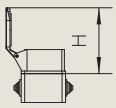
General Requirements

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.

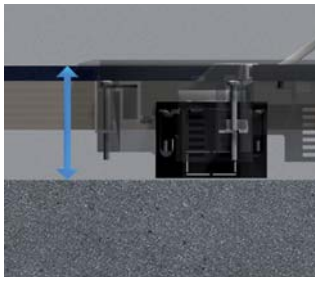
Technical specifications

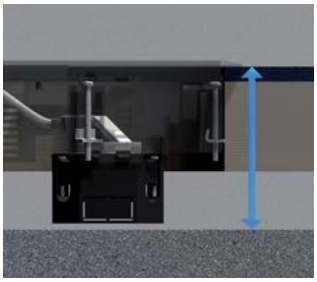
Minimum installation depths of PUK system components

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

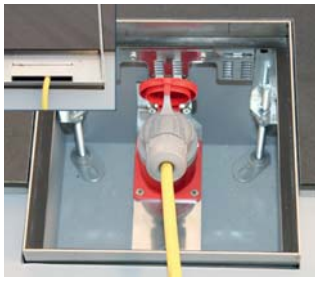
angled connector	straight connector	adapter	CEE socket
			
H = 33 mm	H = 55 mm	H = 58 mm	H = 112 mm
L = 58 mm		L = 71 mm	

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

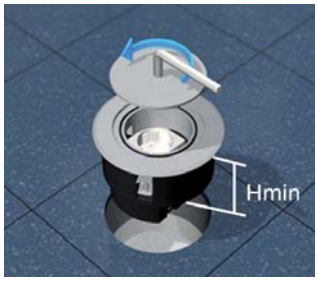
The use of CEE sockets with angled connectors requires an especially high floor structure of at least 185 mm. If straight connectors are used, the unit cannot be locked in due form in used condition.


CEE socket with angled connector

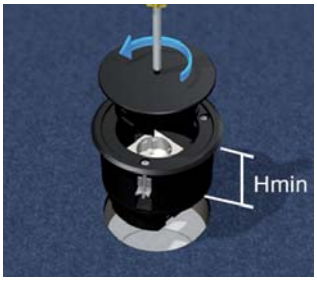

CEE socket with straight connector

The floor power sockets BODO require the following minimum installation heights:
BODO N: minimum installation height (Hmin) = 87 mm
BODO T: minimum installation height (Hmin) = 102 mm

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

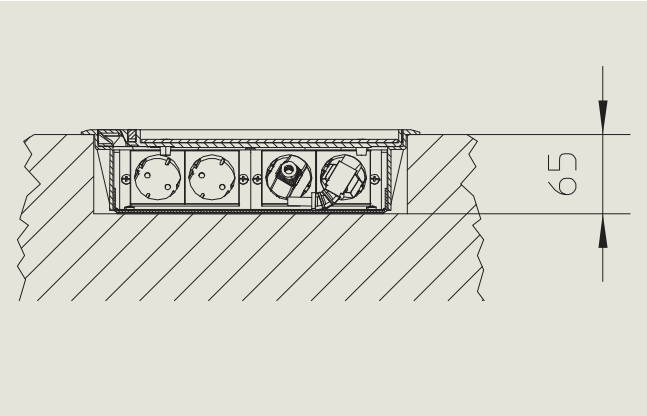


BODO N

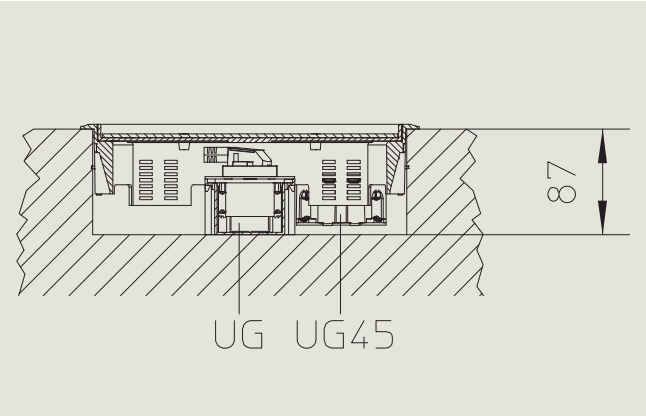


BODO T

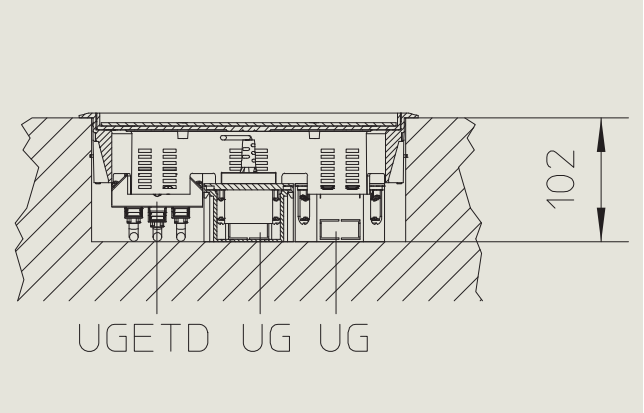
Casing depth device cup including installation device in plastic installation units



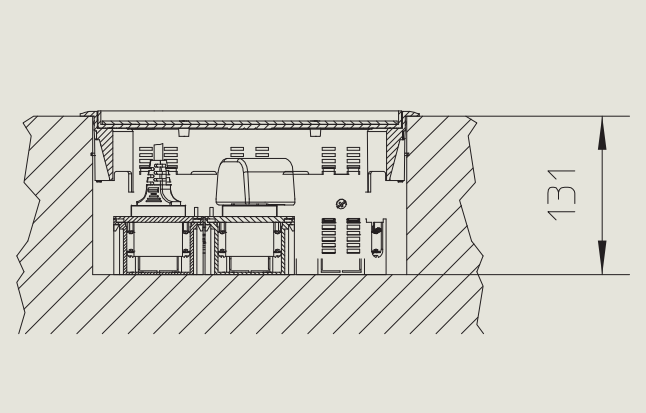
A head space > 65 mm between raw ceiling and floor cover surface is needed for coupler plugs in device insert.



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.

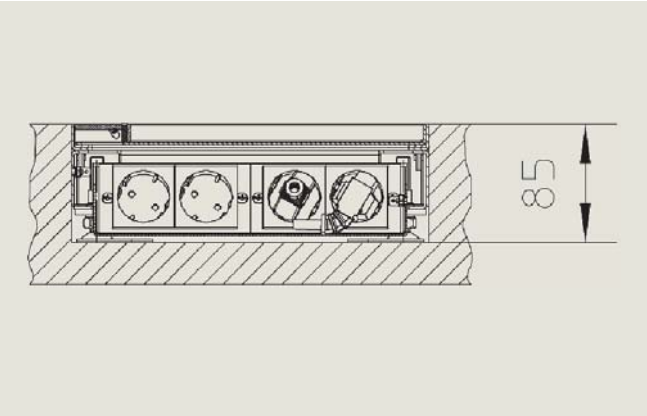


A head space > 131 mm between raw ceiling and floor cover surface is needed for inflexible straight line plug resp. charging set in electrical socket inside device cup in connection with registering extension for device cup installation.

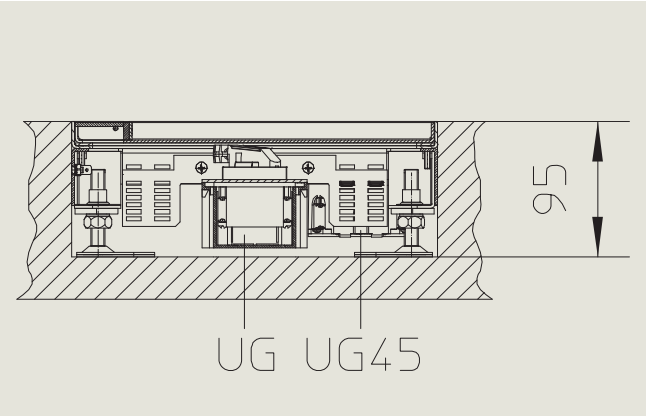
Please observe the above specified dimensions for floor construction!

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.

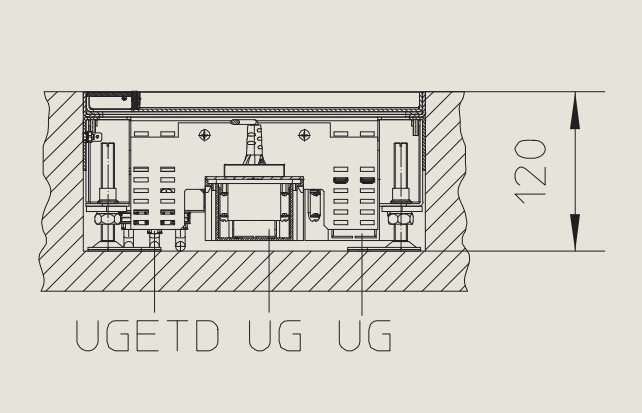
Casing depth device cup including installation device in square stainless steel installation units



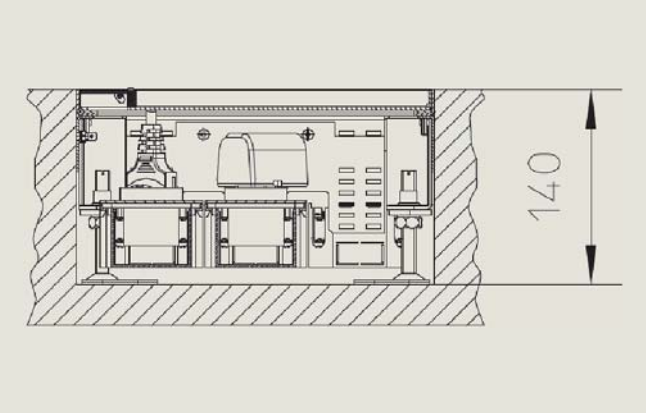
If coupler plugs are used in the device insert, a tolerance of > 85 mm is needed from the upper edge of the floor cover to the slab ceiling.



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 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.



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.

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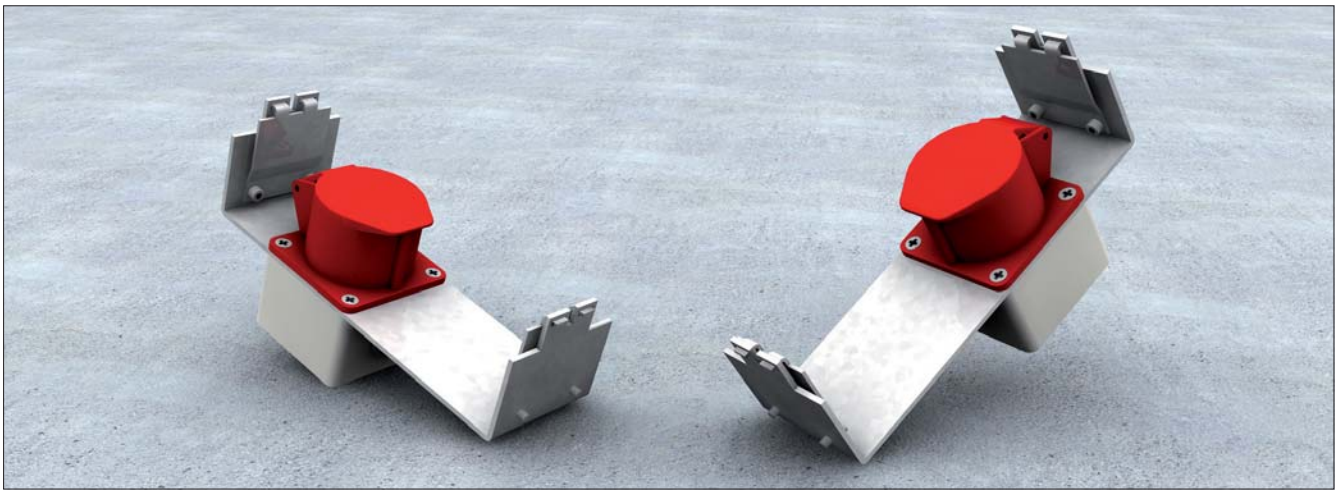
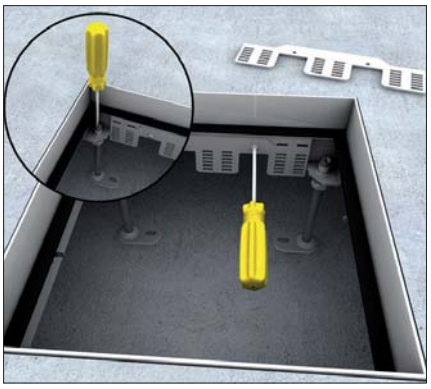
DEVICE CARRIER CEE SOCKET

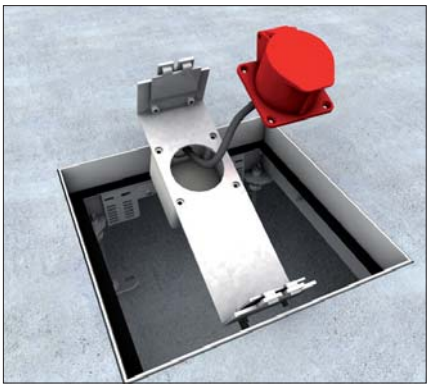
ASSEMBLY INSTRUCTIONS



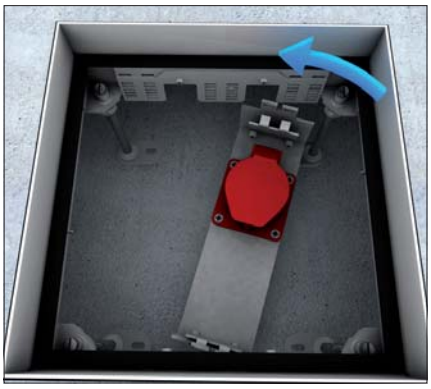
Carrier made of sheet steel with CEE socket 16A or 32A and box for centre installation into a round or quadrangular installation unit. Necessary installation height must be observed before assembly.



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.

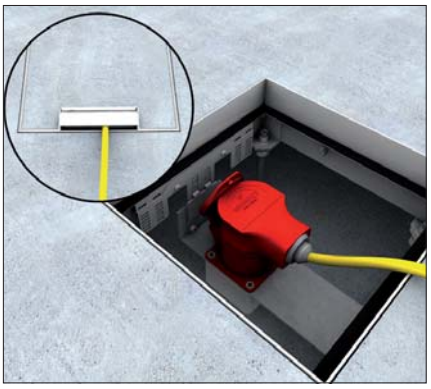


CEE-Connection socket
Detach CEE socket from box and device carrier by unscrewing four screws, insert rubber seal, insert connecting cable into container and clamp to CEE box. Reassemble device carrier completely.

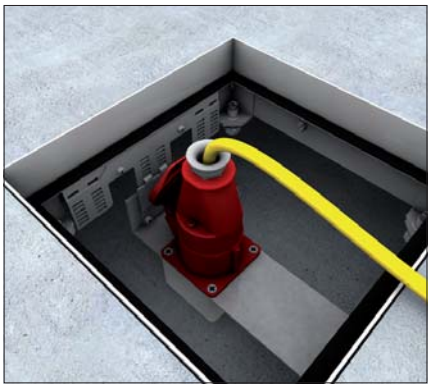


Device carrier
Release socket screws on device carrier and lock-in lead, insert the assembled device carrier into the lock-in leads from the bottom, open hexagon socket bead and insert sideways.

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!

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