



Casing depth device cup including installation device

Technical information



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General Requirements

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

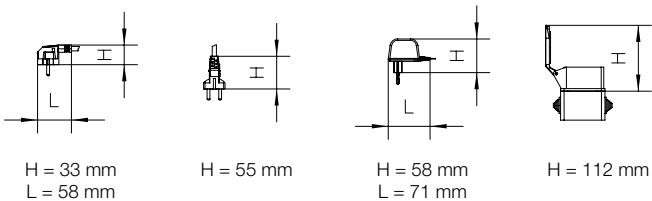
In order to meet the basic requirements according to protection type IP 20 based on DIN EN 50085, the cover or the cartridge must be lockable in working condition. Thereby the required minimum system installation height is derived for the use of angled or straight connectors of data, respectively power technology.

Technical specifications

Minimum installation depths of system components

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

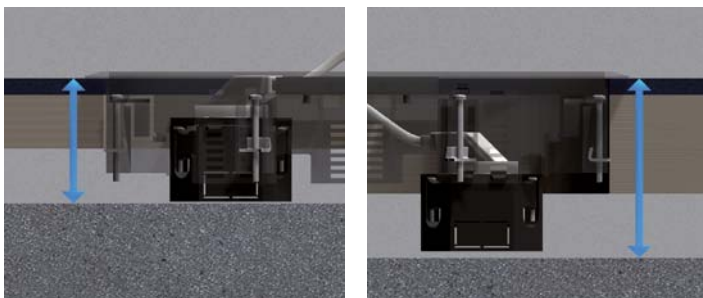
angled connector straight connector adapter CEE socket



The use of locked-in leads made of plastic material and stainless steel in the corresponding installation units allows to lower the installed devices stepwise in the device cups or device carriers by up to 30 mm. This only applies if the necessary tolerance below the installation unit is provided and is not blocked by power cables or cables for data technology.

The previously mentioned cable duct height should be especially adhered to when screed covered duct systems are installed. In that case the tolerance is reduced by 28 to 48mm height, depending on the applied duct height.

minimum installation height 74 mm maximum installation height 104 mm



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

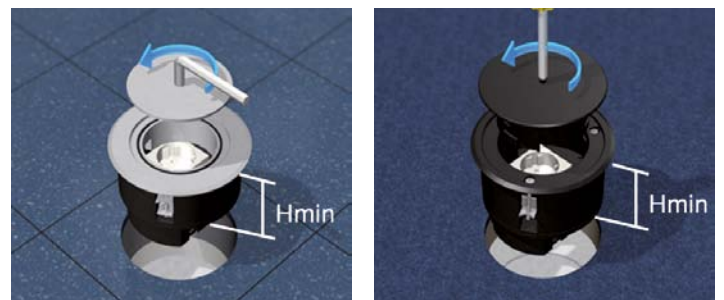
CEE socket with angled connector CEE socket with straight connector



The floor power sockets BODO require the following minimum installation heights (Hmin).

BODO N | Hmin = 87 mm

BODO T | Hmin = 102 mm



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

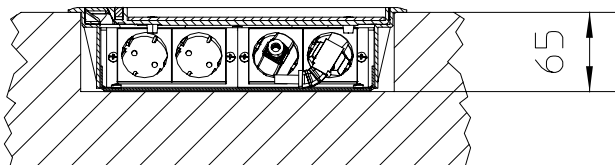
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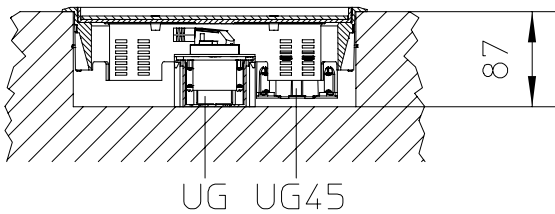
Plastic installation units*

Please note that with plastic units the depth of the floor cover in the cover is based on carpeting of up to 8 mm. The shown minimum installation depths are based on quadrangular and round plastic material units.

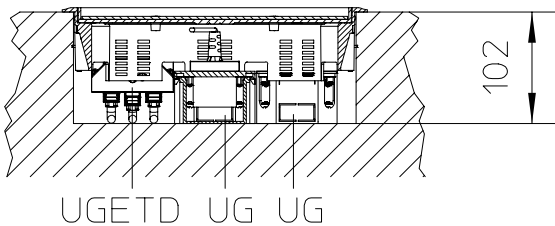
A head space > 65 mm between raw ceiling and floor cover surface is needed for coupler plugs in device insert.



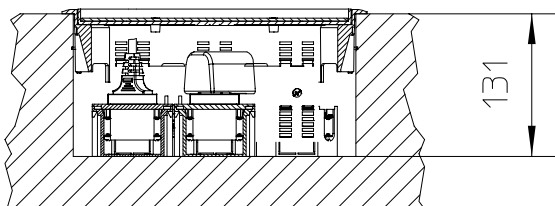
A head space > 87 mm (UG45 > 80 mm) between raw ceiling and floor cover surface is needed for angle plug in electrical socket inside device cup.



Provided the smallest possible bending radius 4D of installation cables of up to Ø 10 mm is to be complied to the resulting minimal installation depth of the device carrier UGETD is > 120 mm from the upper edge of the floor cover to the raw floor. The same applies when a flexible straight connector in a device cup socket is used.



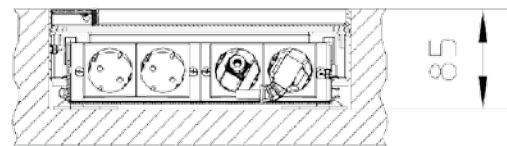
A head space > 131 mm between raw ceiling and floor cover surface is needed for inflexible straight line plug resp. charging set in electrical socket inside device cup in connection with registering extension for device cup installation.



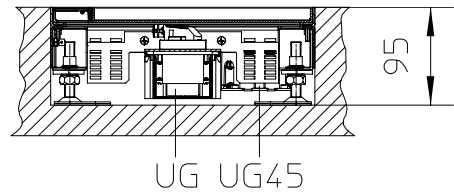
Stainless steel installation units, square*

Please note that with stainless steel units, the depth of the floor cover applies to floor covers of up to 12 mm. The following minimum installation depths apply to quadrangular stainless steel units. A fitting into round stainless steel installation units may require higher installation depths.

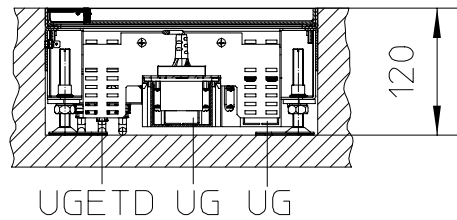
If coupler plugs are used in the device insert, a tolerance of > 85 mm is needed from the upper edge of the floor cover to the slab ceiling.



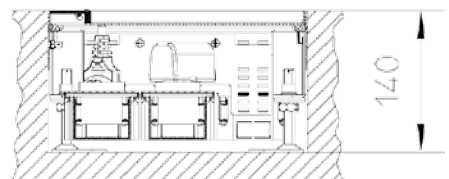
If an angled connector of up to 35mm height is used in a socket in a device cup UG, a tolerance of > 95 mm (UG45 > 88 mm) is needed from the upper edge of the floor cover to the slab ceiling.



Provided the smallest possible bending radius 4D of installation cables of up to Ø 10 mm is to be complied to, the resulting minimal installation depth of the device carrier UGETD is > 120 mm from the upper edge of the floor cover to the raw floor. The same applies when a flexible straight connector in a device cup socket is used.



If a rigid straight connector, respectively a charging device is used in a socket in the device cup, a tolerance of > 140 mm is needed from the upper edge of the floor cover to the slab ceiling.



*Please observe the above specified dimensions for floor construction!



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