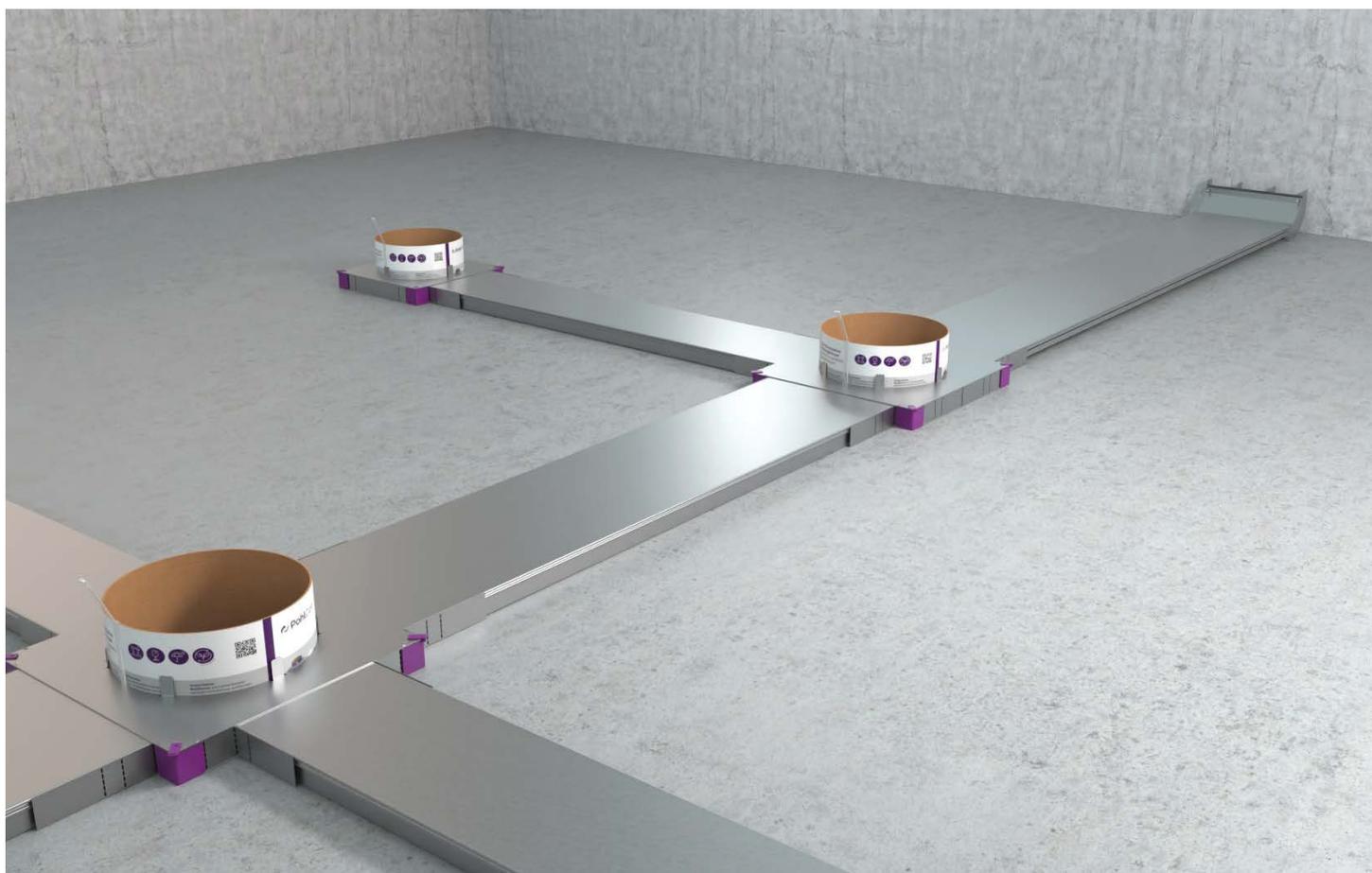
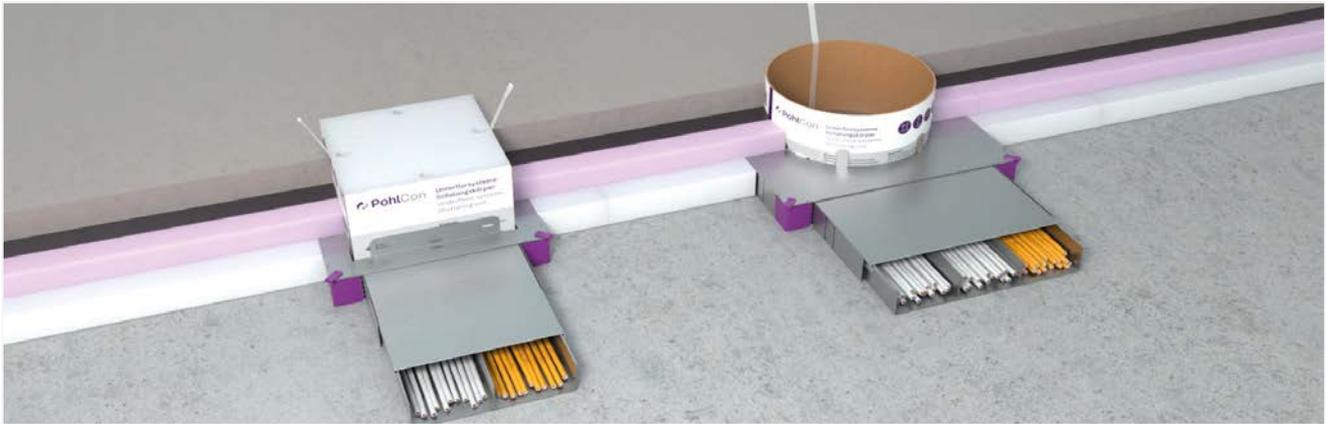


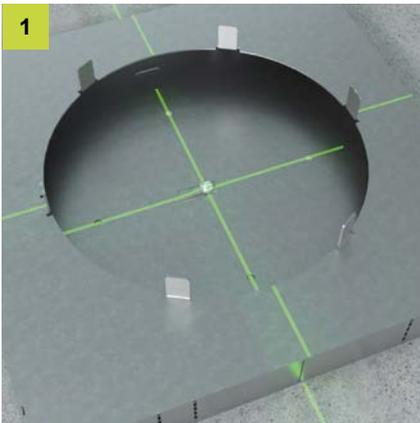
Screed-covered Duct System UKO

Assembly instruction

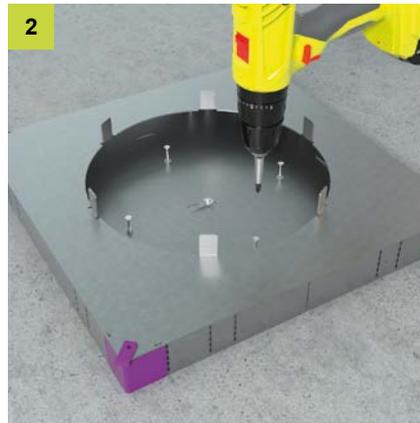




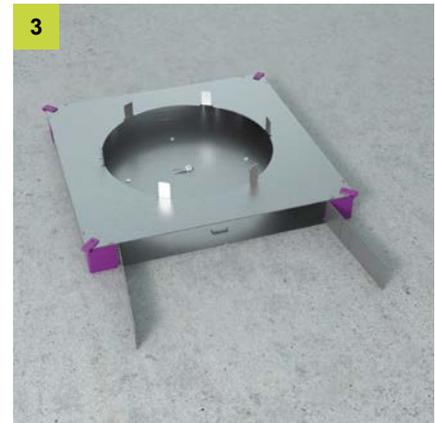
The UKO duct system is designed for routing cables in indoor screed. It enables the installation of units for electrical equipment such as sockets and data and multimedia technology in the system's own screed junction boxes. Available system dimensions: 190, 250 and 350 mm width; 28, 38, 48 and 58 mm height; 3000 mm length. The ducts are available as 2- or 3-compartment ducts. The screed junction boxes must be selected according to the planned channel height; the channel width may be less than the box width. Square and round formwork elements create the installation opening for the installation units.



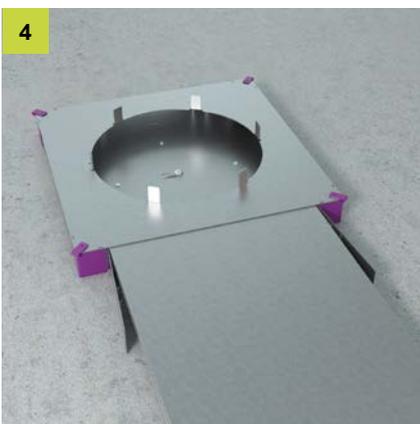
1 Position the screed junction box according to the plan and align it centrally. The mounting holes in the base of the box serve as reference points.



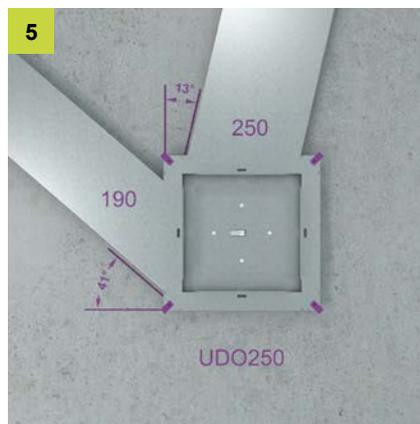
2 Secure the screed junction box to the raw floor using suitable materials and tools. Secure the earthing tab to the bottom of the box.



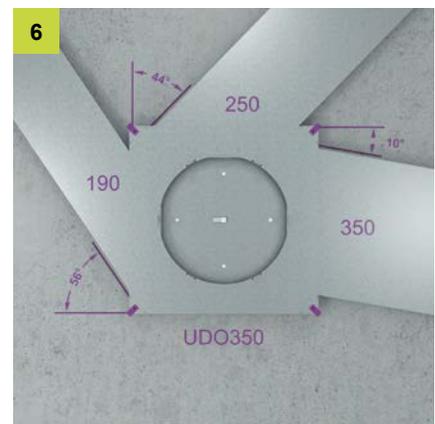
3 Bend the side walls outwards in accordance with the planned cable routes.



4 Adjust the ducts to length according to the installation plan, deburr the cut edges and cold galvanise them. Insert the duct into the screed junction box as far as it will go. Both are integrated into the equipotential bonding via the mechanical connection.



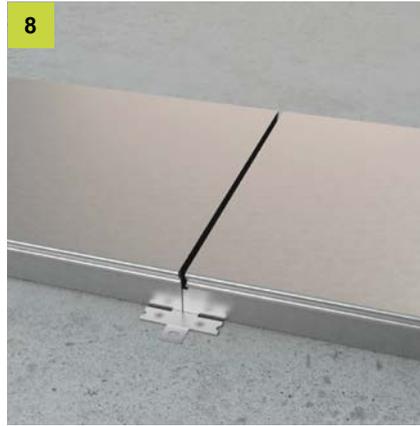
5 The UDO250 screed junction box allows the direction of the duct to be corrected without impairing its function. The maximum angle depends on the duct width (UDO250: 41° for a duct width of 190 mm).



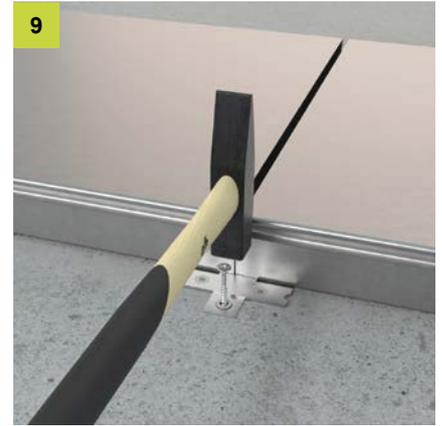
6 The UDO350 screed junction box allows the direction of the duct section to be corrected without impairing its function. The maximum angle depends on the duct width (UDO350: 56° with a duct width of 190 mm).



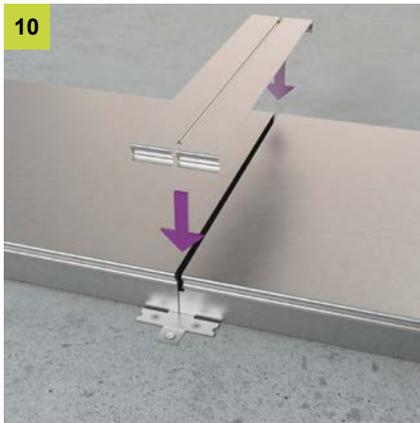
Insert the UMO connecting sleeve into the duct; the guide element must be on the inside. The ducts are connected to the equipotential bonding via the connecting sleeve.



Slide the second duct onto the connecting sleeve.



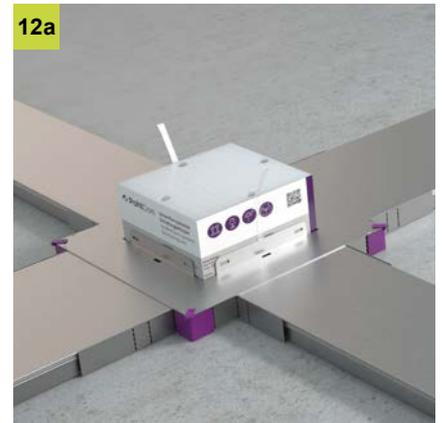
Fix the connecting sleeve to the raw floor using suitable fastening materials.



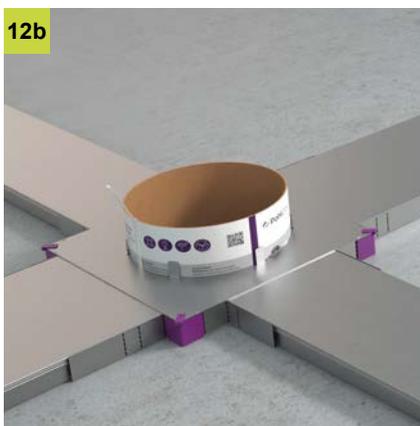
Snap the upper part of the connecting sleeve into place.



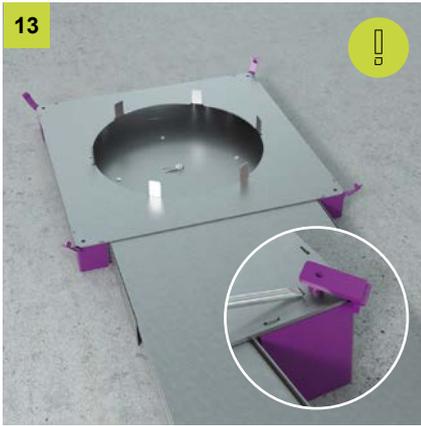
If necessary, integrate the UVO vertical bend with connecting sleeves into the duct system. Fasten according to installation steps 9 and 10.



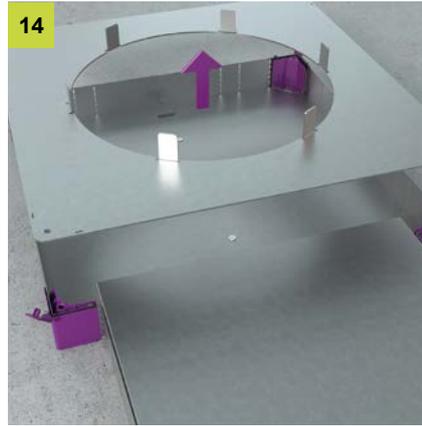
Insert the square USK shuttering unit into the screed junction box. The screed-covered duct system UKO is prepared for the installation of built-in units.



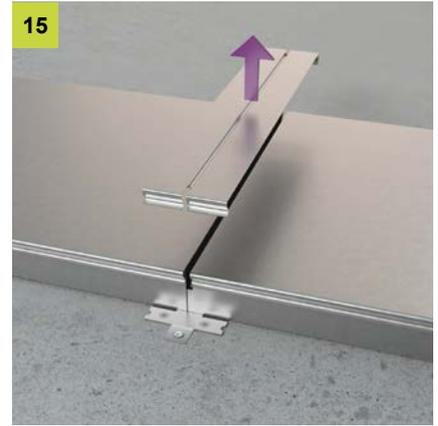
Insert the round USR shuttering pipe into the screed junction box. The screed-covered duct system UKO is prepared for the installation of built-in units.



13
Cables can be laid in the duct system before the screed work begins.
To do this, open the corner clips of the screed junction box using a suitable tool (e.g. flat-head screwdriver).



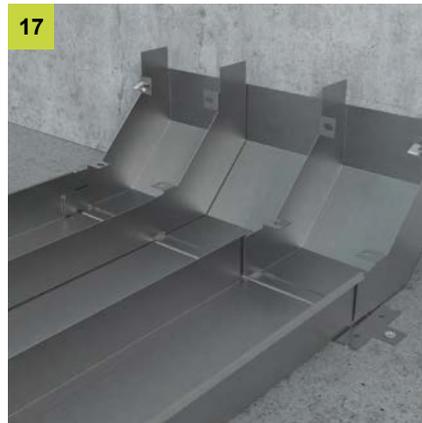
14
Remove the top of the screed junction box upwards.



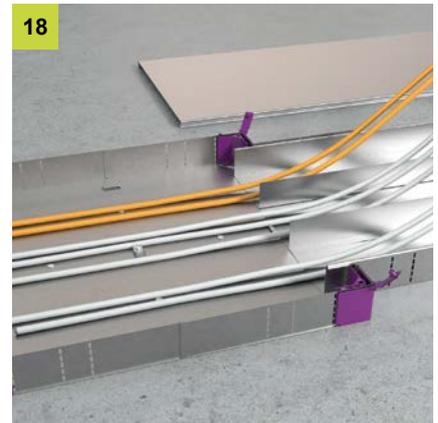
15
Pull the upper part of the connecting sleeve upwards.



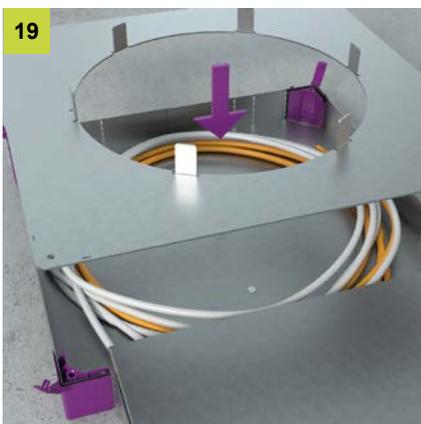
16
Compress the spring element of the vertical bend using combination pliers and remove the upper part of the vertical bend.



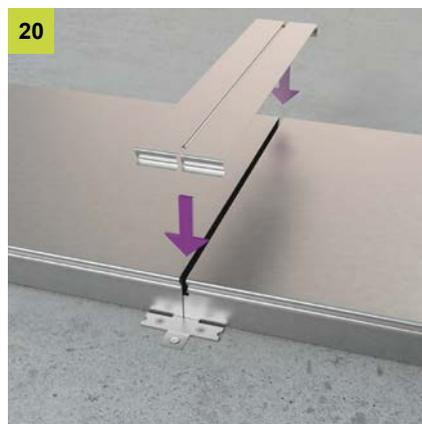
17
Remove the upper parts of the duct sections by loosening the covers against the pressure of the snap fasteners.



18
Lay cables in the ducts according to the installation plan and specified allocation.



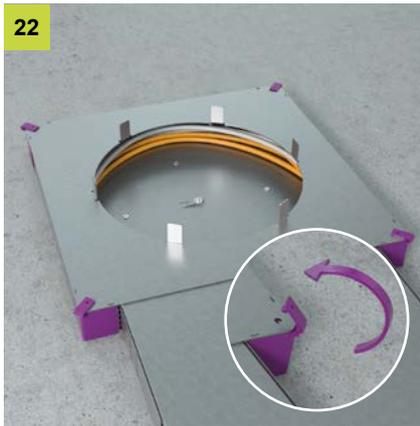
19
After laying the cable, replace the top part of the screed junction box and snap the cover into place.



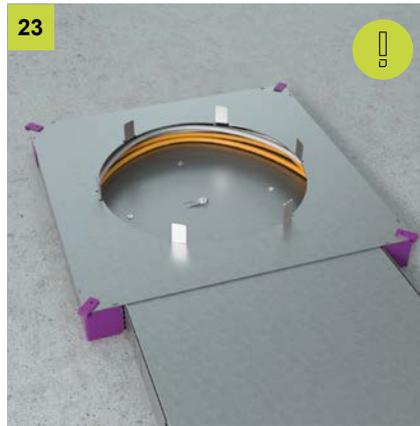
20
Snap the top part of the connecting sleeve into place.



21
Cover the joints with suitable material.



Close the top of the screed junction box again using the corner clips, snapping the flexible clip part into place.



After closing the duct system, lay the cables in a loop in the free space of the screed junction box.

The contact surface of the shuttering unit must remain free of cables.



Insert the shuttering unit vertically into the screed junction box.



Select the height of the shuttering unit according to the final screed height; construction coordination is necessary.
The installation of an edge insulation strip is not permitted.



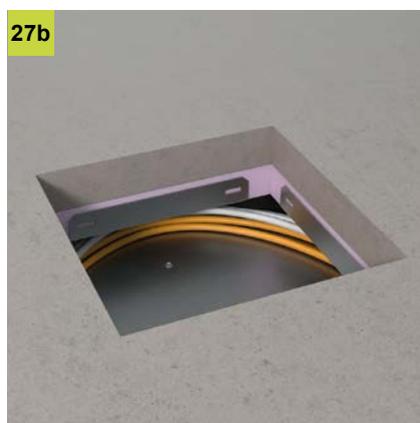
Round shuttering pipe: After completing the screed work, pull the ripcord of the shuttering pipe. Push the shuttering pipe inwards and pull it upwards out of the opening.



Square shuttering unit: After completing the screed work, pull the shuttering unit upwards out of the opening using the pull cord.



The screed-covered duct system UKO is prepared for the installation of built-in units.



The screed-covered duct system UKO is prepared for the installation of built-in units.



Notes

- Keep the duct system closed during installation to prevent damage and deformation.
- It is recommended that the distance between UDO screed junction boxes should not exceed 8 metres.
- When using protective insulated sheathed cables, it is sufficient to include only the UDO screed junction boxes in the protective measure. For this purpose, a protective conductor connection terminal is provided on each screed junction box body.
- The UKO system must not be used as an equipotential bonding conductor.
- Wearing and using PPE, especially cut-resistant protective gloves, is recommended.
- The height of the shuttering unit must be clarified across all trades in accordance with the construction plans.
- The shuttering unit is designed to match the system dimensions of the installation units, therefore it is not permitted to attach edge insulation strips to the formwork body.
- Only separating films with a thickness of < 2 mm may be used to decouple screed junction boxes and screed.
- The use of shuttering oil to remove the shuttering must be clarified across all trades in accordance with the construction plan. After removing the shuttering unit, dispose of it in accordance with local waste disposal guidelines.

Required tools

- Cross line laser
- Hammer drill
- Cordless screwdriver
- Combination pliers
- Flat-head screwdriver
- Angle grinder with cutting disc for sheet steel
- Hammer
- File



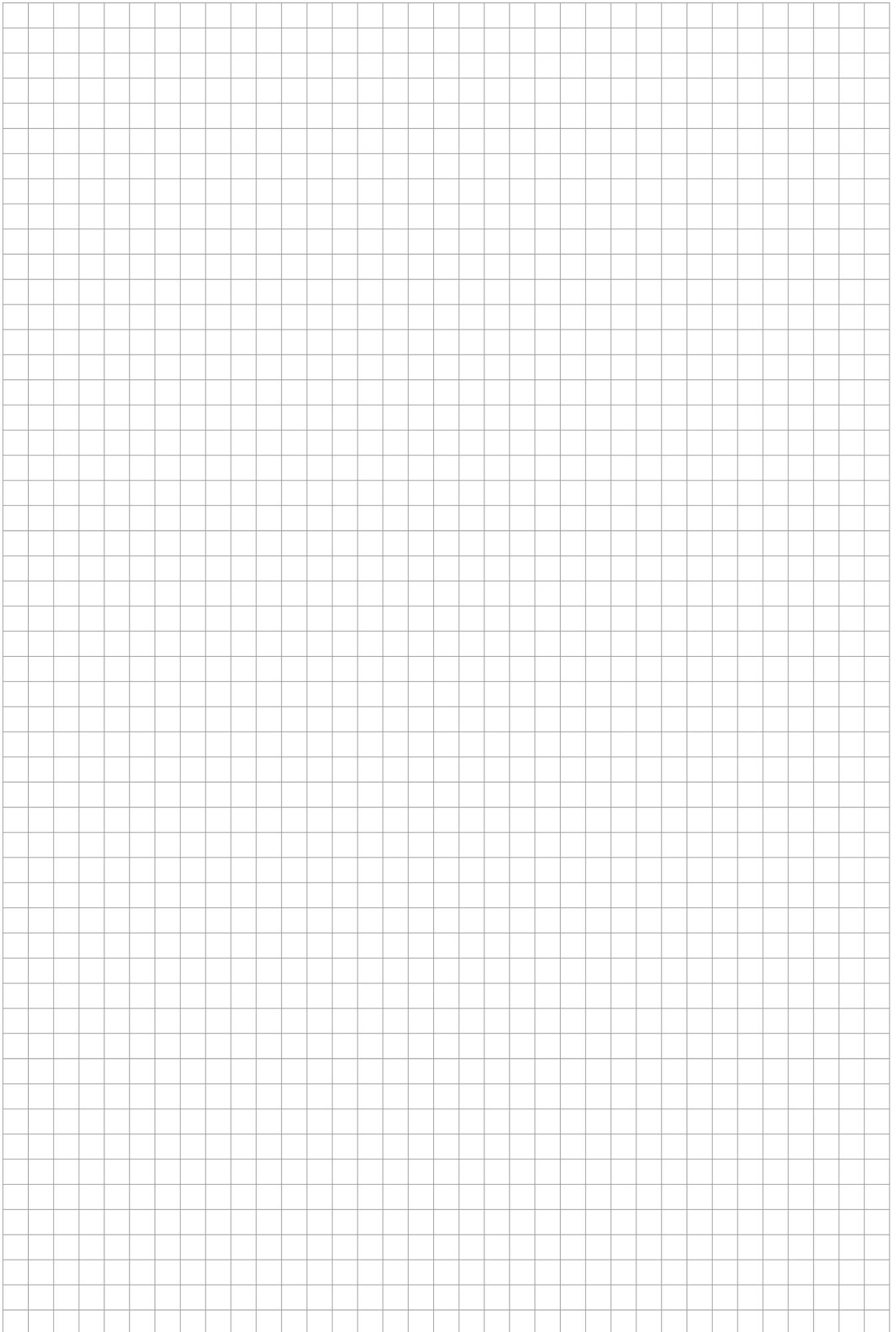
This assembly instruction is intended for the following target groups:

- Electrotechnically trained specialists who are responsible for installing the built-in units and internal electrical installations or related work;
- Electrical planners, engineers and specialists who are responsible for planning floor installation systems.



Electrical work may only be carried out by qualified personnel who have been trained for the respective tasks!

We accept no liability for damage caused by failure to follow the assembly instructions. The illustrated assembly instructions are to be regarded as examples. Actual assembly results may differ visually.



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