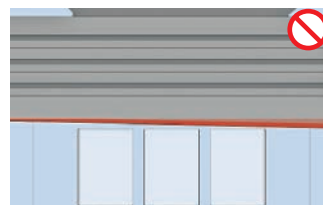
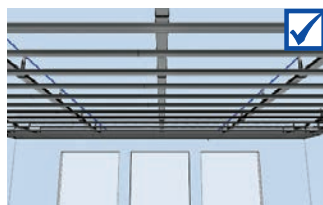
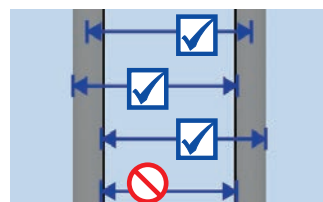
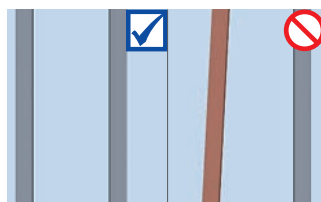
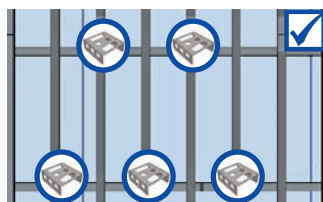


Check ceiling framework for rigidity and evenness (using a straightedge).



Then check ceiling grid CD sections for centre distances and adjust, if necessary. Always mount straight connectors in a staggered manner (see figure). Measure centre distances accurately!



As viewed from entrance area, choose panel arrangement with short edges parallel to windows (main direction of light).



Locate centre of room to position first ceiling panel, also taking into account resulting ceiling perimeter to wall connections.



Get panel to correct position on framework using a panel lifter if working alone, or else another worker's help.



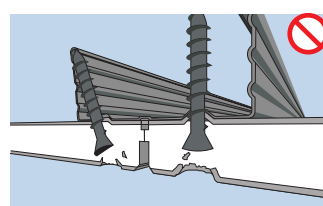
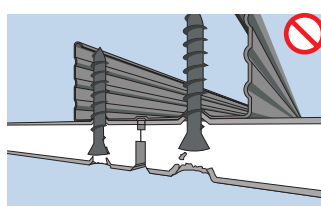
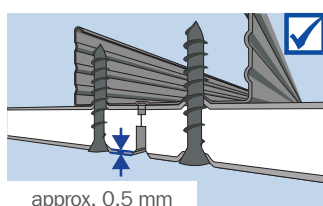
#### We recommend the following accessories for installation:

Perforated panel screws, including screw bit

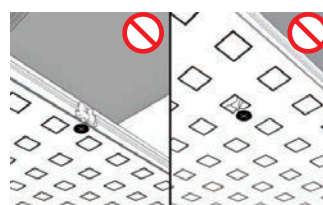
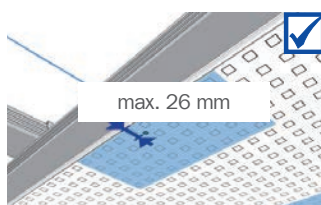
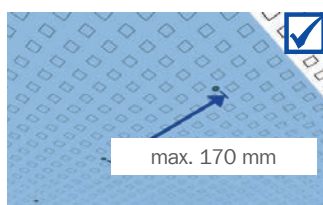
#### Correct handling of ceiling panels:

- Always take into account the load carrying capacity of the building when storing ceiling panels
- Do not store ceiling panels upright, but always flat on panel pallets
- Always carry ceiling panels with short edges upright
- Protect ceiling panels from moisture; relative humidity should be 40 - 80 %
- Avoid major temperature fluctuations
- Do not expose stored ceiling panels to direct sunlight

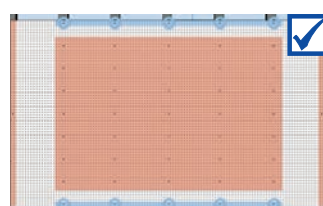
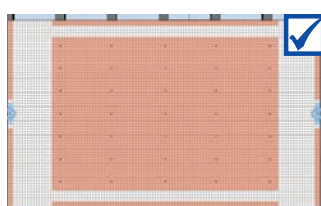
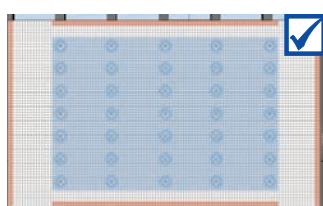
Screws must be put into panel at right angles and countersunk head screwed down to 0.5 mm below visible surface of ceiling panel.



Screws should be spaced maximum 170 mm from fixing point to fixing point. Distance between screw and panel edge not to exceed 26 mm. Avoid damaging acoustic design panels by countersunk heads.



First, screw ceiling panel to framework in centre of panel, then lower panel lifter and fix a screw in centre of each short edge before finally screwing down long edges.

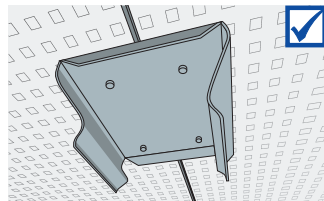


Perforation pattern	Centre distance
Straight round perforation 6/18, 8/18, 10/23, 12/25 Offset round perforation 8/12/50, Straight square perforation 8/18, 12/25, Random perforation 8/15/20, 12/20/35	333 mm
Straight round perforation 15/30 Offset round perforation 12/20/66	330 mm

Take note of panel labelling (stamp) and mount in direction of reading (all stamps should point in same direction).



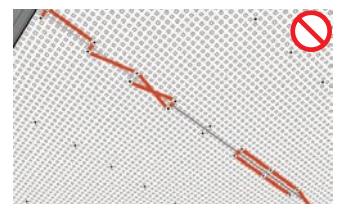
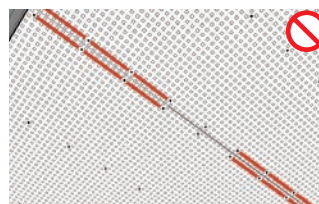
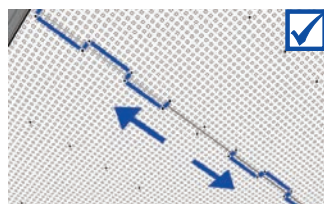
Install next ceiling panel edge-to-edge next to first panel. Use mounting aids **only in case of damaged butt edges** to keep proper joint size.



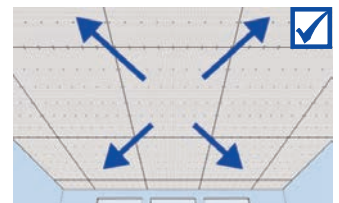
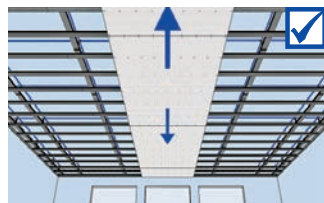
**General site conditions / Manufacturer's instructions:**

- Take movement joints of building structure into account
- Plan to include expansion joints after approx. every 10 m or approx. 100 m<sup>2</sup>
- Cardboard layer must not be penetrated by screws, but merely displaced downwards
- Working temperature should be at least +10 °C and job site temperature not below +5 °C
- Place any damping (mineral wool layer) directly onto the ceiling panels
- Carry out any additional work on ceiling (access openings, lighting recesses) immediately after installing ceiling panels and always before finishing joints

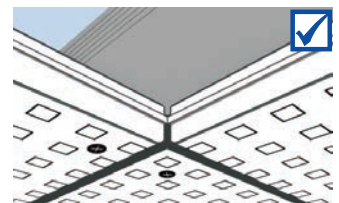
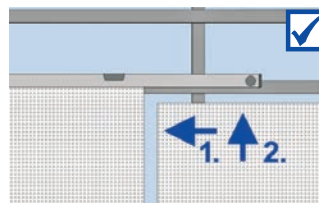
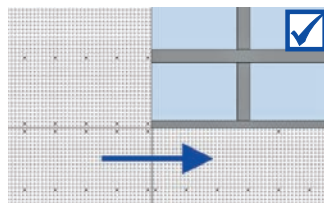
Fix screws in panel joint area using alternating pairs across panels ("zig-zag" principle), starting left or right next to screw which has already been fixed. This will create flush joint areas.



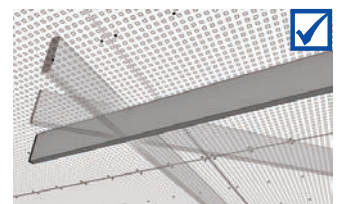
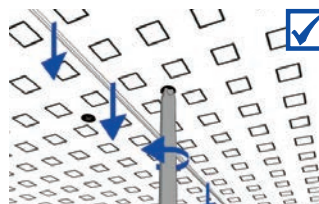
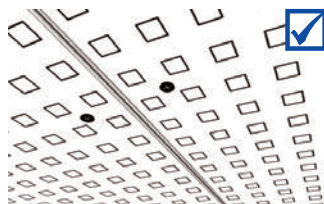
Install ceiling panels first lengthways, then crossways, resulting in cross arrangement on ceiling. Cover remaining areas in same manner, working from centre of room outwards.



Lay remaining ceiling panels edge-to-edge, always checking that joints are level and using "cross joint" system only.

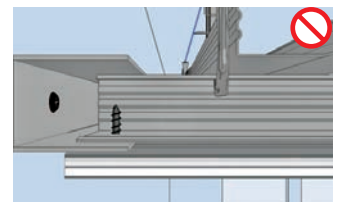
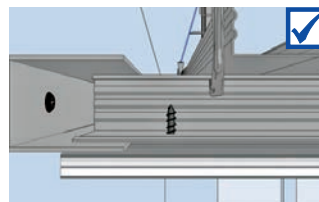
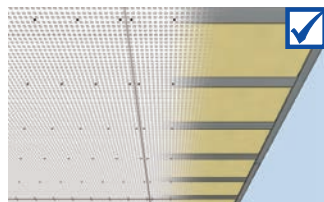


After all panels have been installed, recheck that all joints are level and adjust, if necessary, using a screwdriver. Then check with a straightedge.



Place any damping layer directly onto back of ceiling panels.

Never screw into UD28 profile when mounting panels at ceiling perimeter; sliding wall connections are also always required.



Provide for expansion joint of 5 to 10 mm every 10 linear metres / 100 m<sup>2</sup>.

Additional board strip above joint must be screwed down on one side only.

