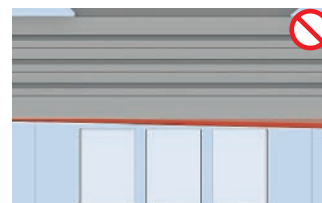
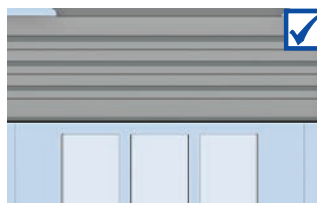
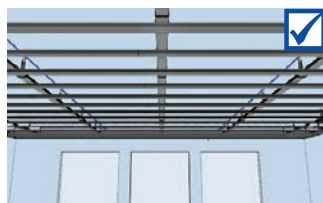
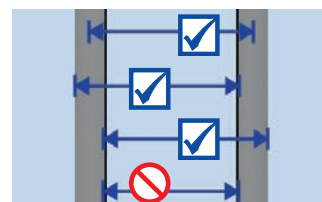
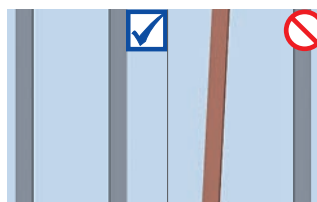
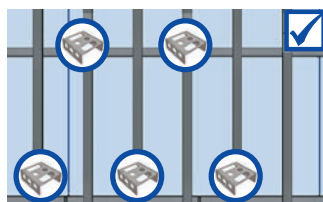


Check ceiling framework for rigidity and evenness (using a straightedge).



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).



Exception: Ultracoustic panels with inherent screw bars.

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:

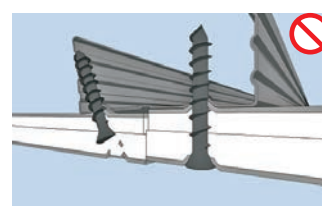
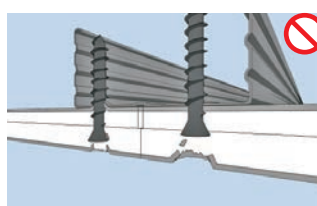
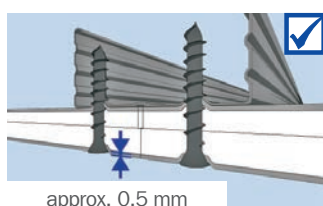
Perforated panel screws, including screw bit

#### Correct handling of ceiling panels:

- Always take load carrying capacity of building into account 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

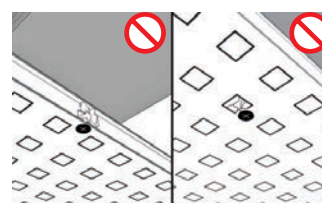
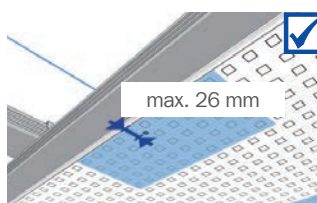
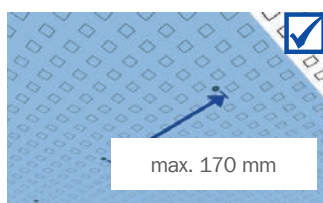
Perforation pattern	Centre distance
Acoustic plaster system panel 8/18R, 12/25Q, Reflexio	334 mm
Ultracoustic panel 12/25R DLV	325 mm

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



approx. 0.5 mm

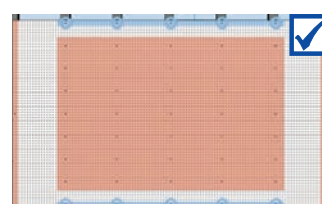
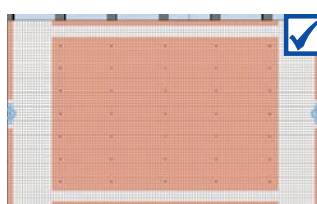
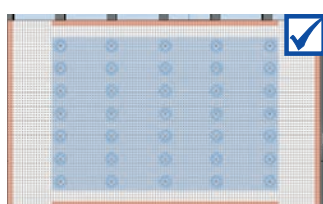
Screws should be spaced maximum 170 mm from fixing point to fixing point. Distance between screw and panel edge not to exceed 26 mm. Avoid damaging acoustic design panels by countersunk heads.



max. 170 mm

max. 26 mm

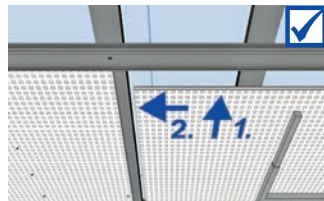
First, screw ceiling panel to framework in centre of panel, then lower panel lifter and fix a screw in centre of each short edge before finally screwing down long edges.



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



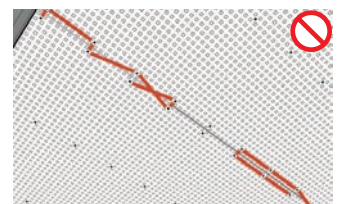
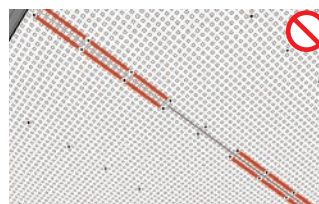
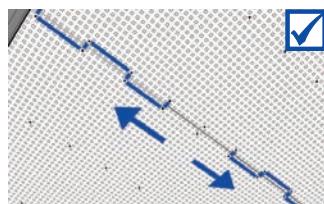
Use CD profile or straightedge as end stop. Position next panel by sliding it to first alongside CD profile / straightedge and fix in place.



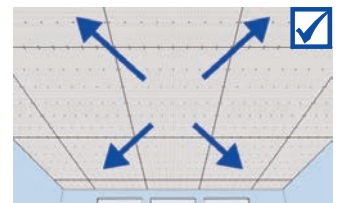
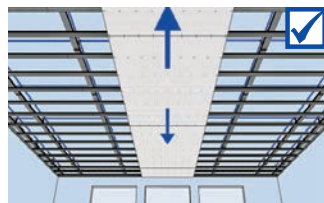
#### General site conditions / Manufacturer's instructions:

- 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
- Installed ceiling surfaces must not be connected to perimeter walls
- Place any damping (mineral wool layer) directly onto the ceiling panels
- Carry out any additional work on ceiling (access openings, lighting recesses, etc.) immediately after installing ceiling panels

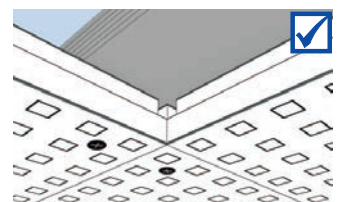
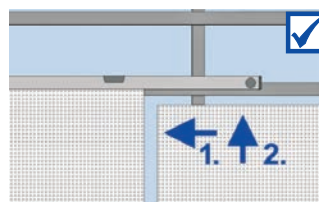
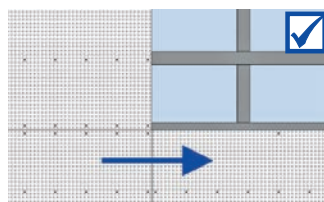
Fix screws in panel joint area using alternating pairs across panels ("zig-zag" principle), starting left or right next to screw which has already been fixed. This will create flush joint areas.



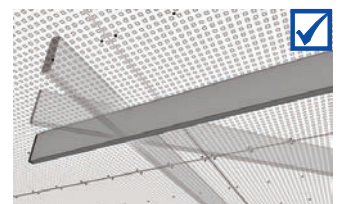
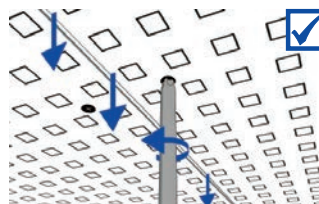
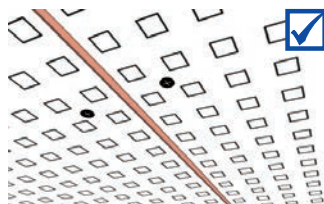
Install ceiling panels first lengthways, then crossways, resulting in cross arrangement on ceiling. Cover remaining areas in same manner, working from centre of room outwards.



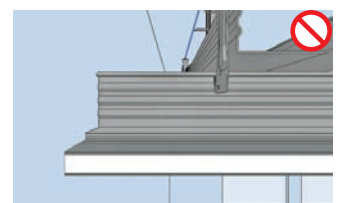
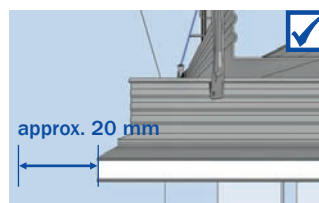
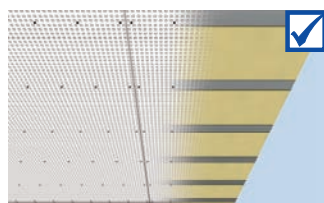
Lay remaining ceiling panels edge-to-edge, always checking that joints are level and using "cross joint" system only.



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. We recommend fitting an open shadow gap at the wall connection.



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.

