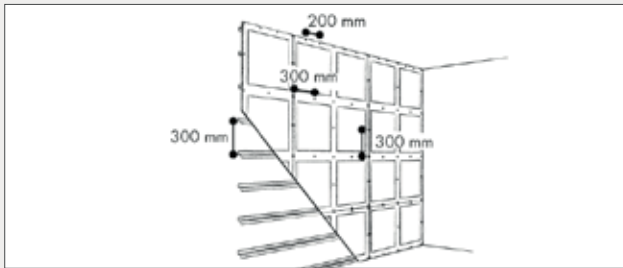
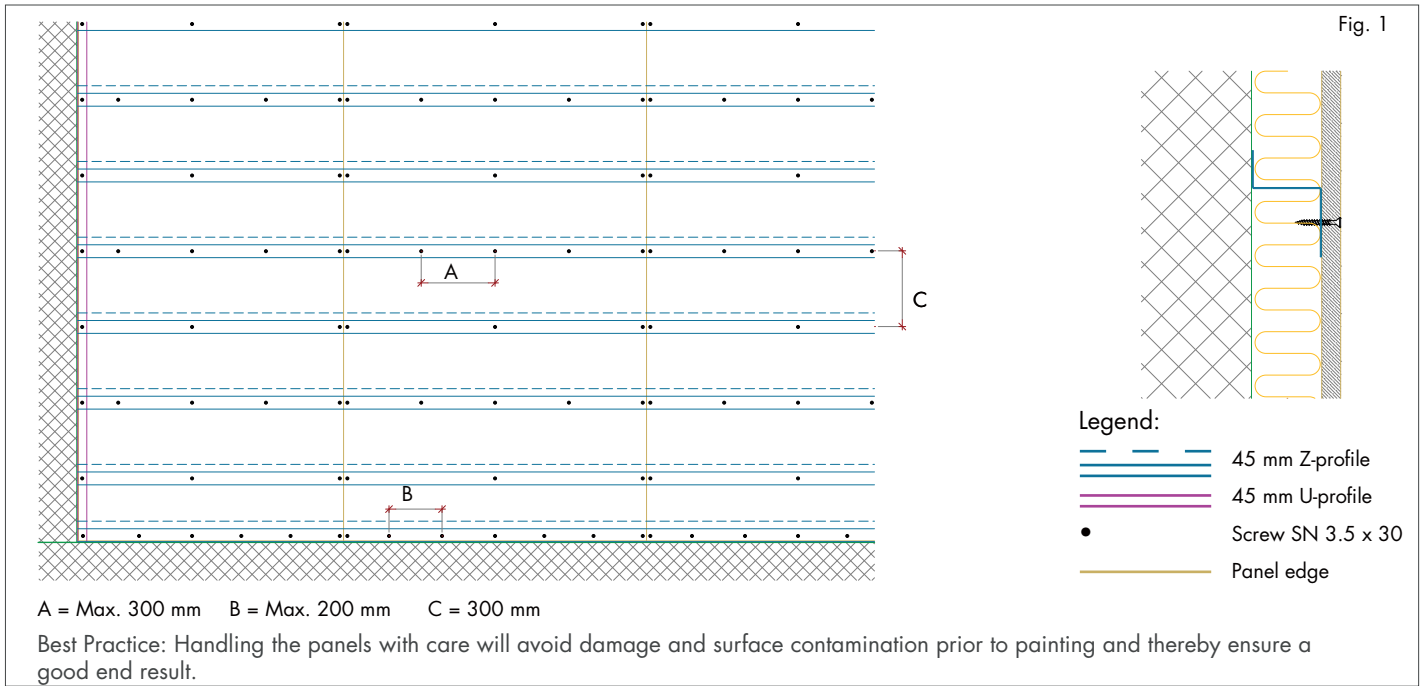
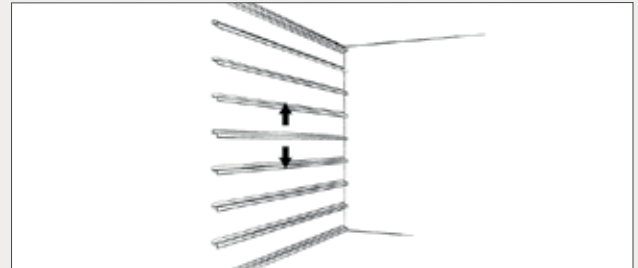


# INSTALLATION GUIDE



## FURRING

- Depending on current fire regulations Designpanel can be installed on wood or steel furrings.
- Furrings can be vertical or horizontal but should in general be at right angles to the direction of the panels to ensure that the end edges of the panels are properly supported.
- Furrings should be at least 45 mm in width.
- Also see the section "Acoustics" on next page.



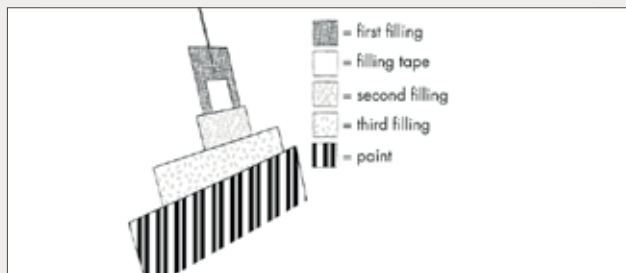
## LAYOUT

- Perforated wall panels are normally installed on the upper section of a wall in accordance with acoustic requirements and the shape of the room in question.
- However, perforated panels can also be used to cover an entire wall, depending on the degree of physical impact.
- Follow any available drawings or divide the surface of the wall so that the perforated modules are positioned symmetrically in the room.
- Expansion joints should be established on extensive wall surfaces at intervals of max. 15 metres. See detailed drawings on [knaufdanoline.com](http://knaufdanoline.com).



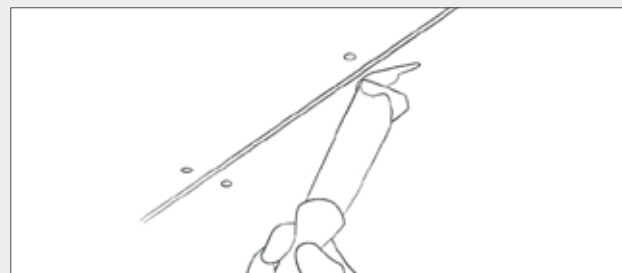
## INSTALLATION

- Install the first row of panels with the help of string.
- See distances in figure 1.
- The panels are supplied undersized and must be installed at distances of up to 4 mm from each other to ensure that it is possible to insert filler all the way up between the edges of the panels.
- The perforated fields must be flush in their own rows and at right angles to the adjacent fields.
- Cut the elements to size from the front with a fine-toothed saw.



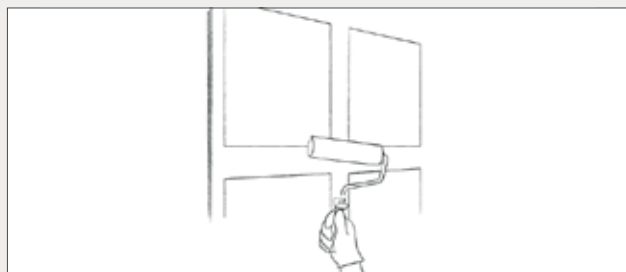
## FILLING

- Apply the first layer of filler (Easy Filler Light). Make sure it is pressed all the way up between the panel edges and avoid getting filler in the perforations.
- Apply filler tape to the wet filler.
- The first filling and application of filler tape can be carried out in a single, very simple operation by using a Mini Bazooka.
- Allow the filler to dry. Make sure that the filler is completely dry before sanding. Sand with fine sandpaper. Be careful not to damage the cardboard surface.
- Apply the second layer of filler (Easy Filler Light).
- Allow the filler to dry. Make sure that the filler is completely dry before sanding. Sand with fine sandpaper. Be careful not to damage the cardboard surface.
- Apply the third layer of filler (Easy Filler Light). Make sure that the filler is completely dry before sanding. Sand with fine sandpaper until the joint is completely smooth. Be careful not to damage the cardboard surface.



## FILLING SCREW HOLES

- Check that the screws have been countersunk.
- Apply the first layer of filler (Easy Filler Light).
- Allow the filler to dry.
- Sand with fine sandpaper.
- Apply the second layer of filler (Knauf Uniflott Finish), overfill slightly.
- Allow the filler to dry.
- Sand with fine sandpaper until the surface is completely smooth. Be careful not to damage the cardboard surface.



## PAINTING

- Make sure that the filler is completely dry and the surface is free from dust.
- Priming should be carried out in accordance with the paint manufacturer's instructions.
- Apply the paint with a roller so that the acoustic felt on the perforated panels is not sealed. Use a fine mohair roller.
- Make sure that the paint is not too thick and avoid applying too much paint at a time.
- Spraying cannot be recommended as this could influence the acoustic properties of the panels.

## ACOUSTICS

- A perforated gypsum panel will lose its acoustic function if the perforations are blocked (this applies to the front and back of the panel).
- Where applicable, a vapour barrier should therefore always be placed behind the furrings so that it does not come into contact with the back of the perforated panel.
- When installing Designpanel on a fixed surface we recommend filling the cavity between the back of the panel and the furring with mineral wool. This is primarily to ensure low frequency sound absorption.