A close-up photograph showing three silver-colored metal turning panels installed on a subfloor. The subfloor consists of large, light-brown panels with circular cutouts. The turning panels are laid across these cutouts, creating a smooth transition. The panels have a brushed metal finish and are secured with screws. The text 'KRONOSPAN' is visible on the panels. The background shows more of the subfloor and a white wall.

Novopan Turning Panels

for 22 mm Climate Flooring®

Installation manual

Climate Flooring® with Turning Panels can be used as

- Load-bearing subfloor on joists or beams
- Floating subfloor on EPS

Read this installation manual carefully before you start.

Installation of Turning Panels in 22 mm Climate Flooring®

HEATED FLOORS

Floor heating is the modern heating solution – creating the perfect temperature, making you feel warm and comfortable from the moment you enter the room. It's invisible in livable areas, energy-efficient and cost-effective, maintenance free and compatible with all type of flooring.

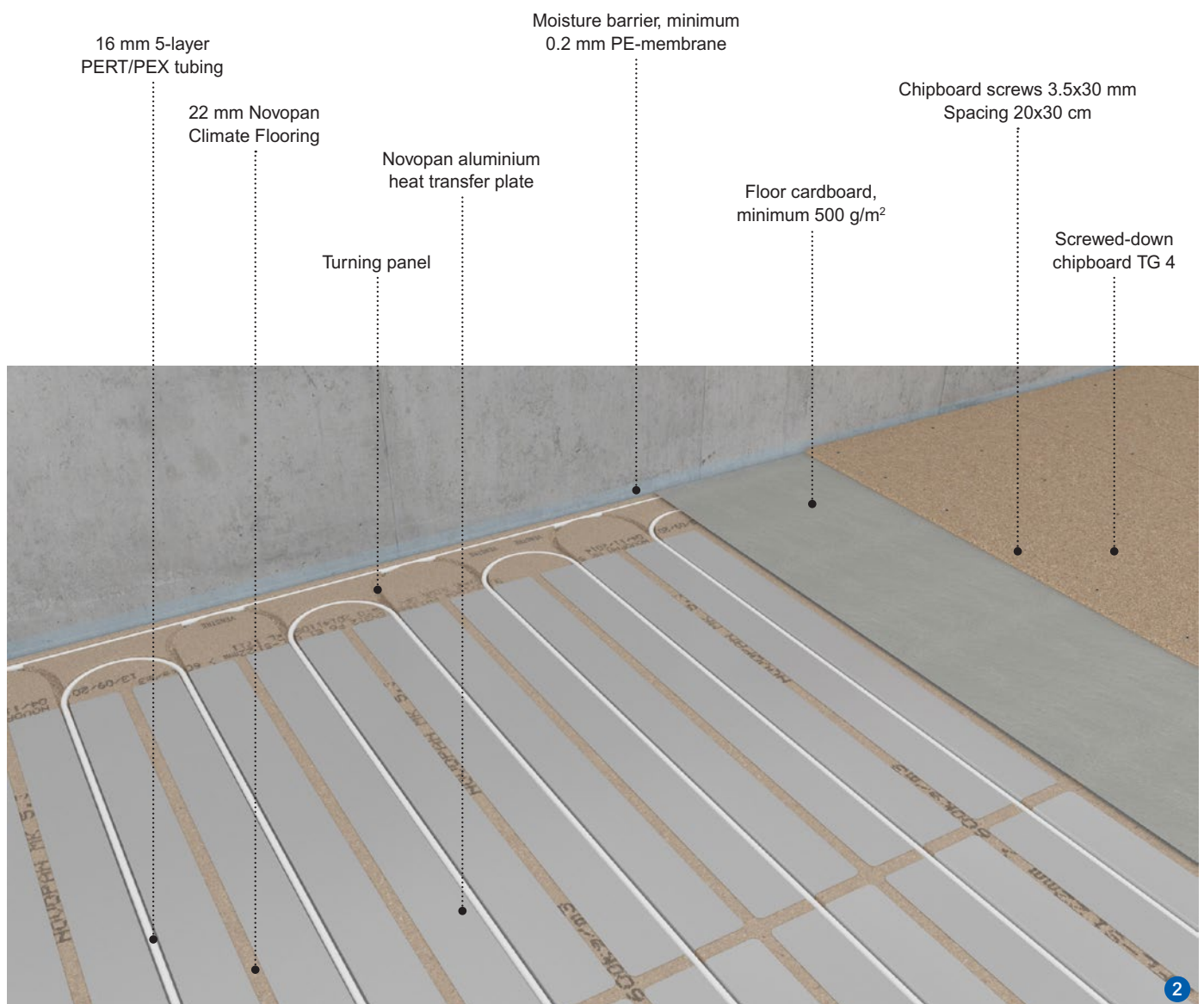
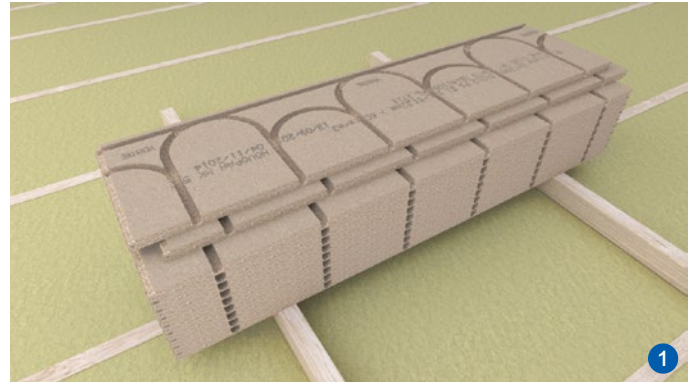
NEW TURNING PANEL

You no longer need to cut turning grooves or supply and return routes with the new Novopan turning panels for Novopan Climate Flooring®, see figure 1.

Factory pre-cut grooves for PERT/PEX tubes

The pre-cut grooves ensure that the tubing is spread out across the floor in a balanced manner.

The aluminum plate on top of the board and down into the grooves significantly enhances the transfer of heat and the evenness of its heat distribution.



LOAD-BEARING SUBFLOOR ON JOISTS

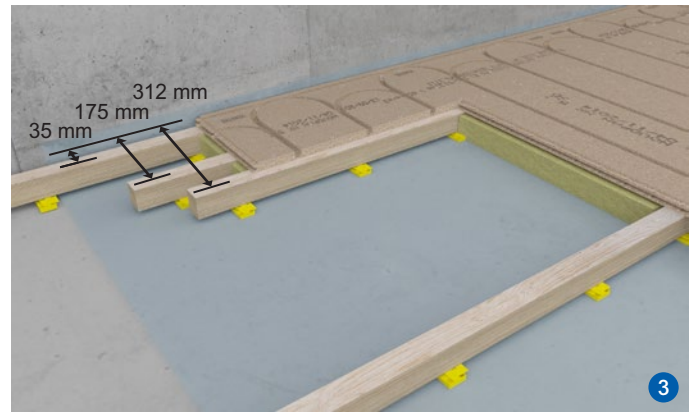
Mounting turning panels

Mount the turning panels on 3 joists placed as shown in the illustration, see figure 3. The panel has a tongue or groove at the short ends, while the long sides are straight.

Joist positioning c-c from the wall:

- First 35 mm
- Second 175 mm
- Third 312 mm

Place the panels along the sides of the room so that the text can be read with your back to the wall. When the panels are placed correctly, the tongues and grooves of the turning panels will fit.



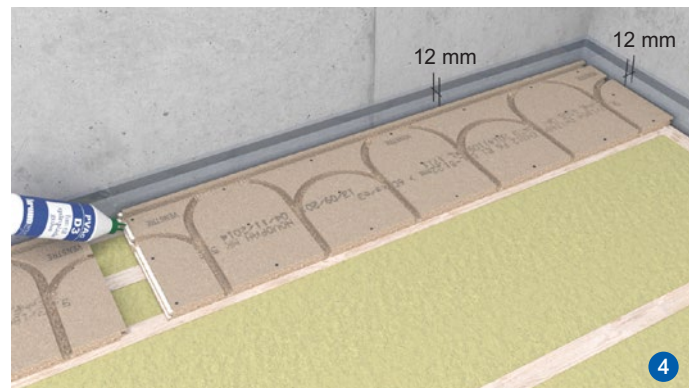
THE STARTING POINT

The starting point for the first turning panel is normally the corner where the supply and return pipes are placed.

Starting point at the right side

Mount the first panel at a distance of 12 mm from the wall, with the tongue forward (on the left side). Apply glue in two strings on the tongue and mount the next turning panel, see figure 4.

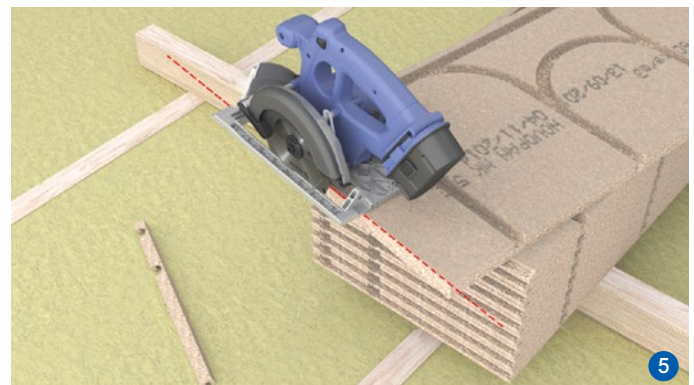
It is important that the grooves in the turning panels match perfectly with the grooves in the straight-tracked panels, when they are later installed.



Starting point at the left side

Before mounting the first turning panel, the tongue must be cut off, see figure 5.

Mount the first panel at a distance of 12 mm from the wall. Apply glue in two strings on the tongue of the next turning panel and mount it so that the panels fit together completely, see figure 6.

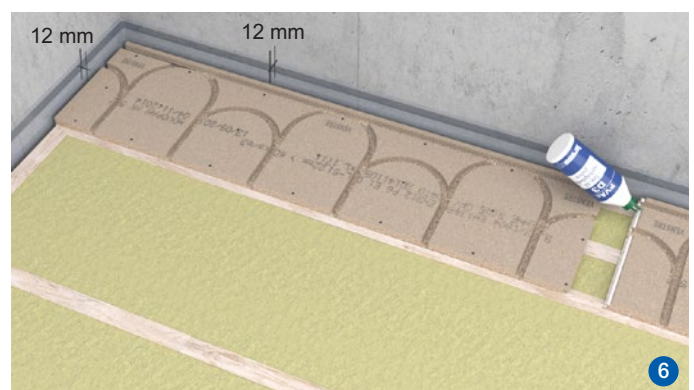


At the opposite end of the room

Starting from the same side or wall as the first row (with the wall on your left side), cut the tongue on the first panel and mount it 12 mm from the wall, see figure 5, 6 and 7.

Starting from the opposite side or wall as the first row (with the wall on your right side), mount the first turning panel with the tongue forward, see figure 4 and 7.

Ensure that the turning panels are correctly positioned, i.e. 12 mm from the wall to the panel edge, and 112 mm from the middle of the first track.

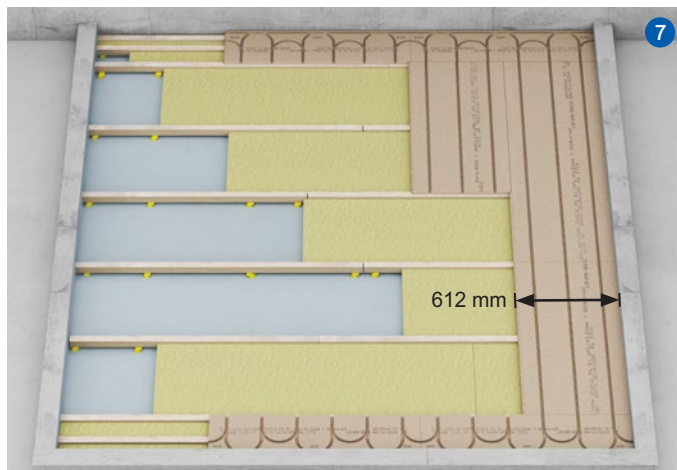


MOUNTING STRAIGHT-TRACKED PANELS

When the two rows of turning panels have been mounted on either side of the room, draw a string along the room, 612 mm from the wall to the panel edge on the tongue side.

On the first straight-tracked panel, cut away about 20 mm of the tongue or groove profile to form a flat edge against the turning panel.

Now fit the straight-tracked panel, following the string. It is important that the first row of panels is placed precisely to fit with the tracks in the turning panels, see figure 7.



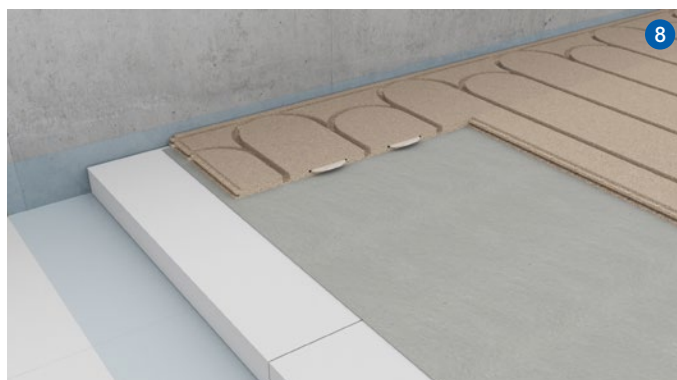
FLOATING SUBFLOOR ON EPS

Mounting turning panels

If the turning panels are used on load-bearing insulation, grooves must be cut in the end connection for 2 or 3 flat dowels, see figure 8.

Apply plenty of glue to both the end groove and the flat dowels so that it is visible in the panel joint.

Floating joints in the subfloor can be used for normal loads in ordinary dwellings.

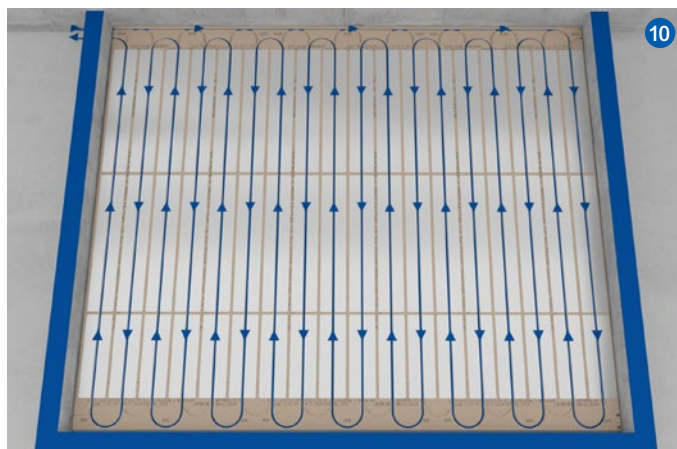
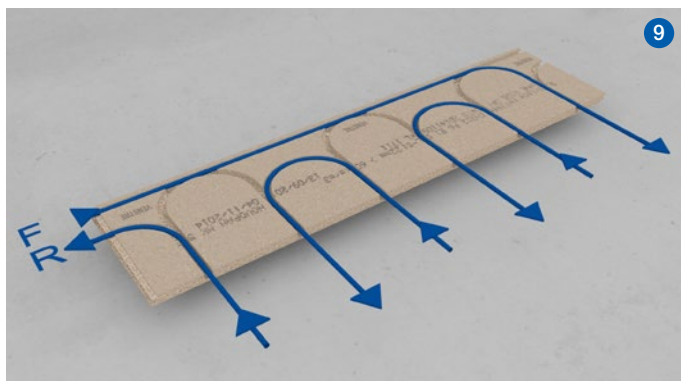


INSTALLATION

To install the PERT/PEX tubes, guide the course from the supply along the coldest wall in the room, see figure 9 and 10.

In rooms where the panel width does not fit completely, up to 400 mm of the floor along the walls may not be covered by heat distribution panels. This can be reduced by 80 mm by cutting away part of the long side of the first panel to improve the overall position.

Remember that this must be calculated and carried out when the turning panels are installed.



Note

Please note that the performance approval is only valid on condition that this installation manual is followed. Plan how the floor will be laid in relation to the location of the heating system and plan where the inlet and outlet for the PERT/PEX pipes pipe for the underfloor heating will be located.

DISCLAIMER OF LIABILITY

NOVOPAN Climate Flooring® is designed for use in rooms where underfloor heating is to be established. The instructions do not cover the decision to choose underfloor heating, or the structural engineering or installation of the underfloor heating system itself, and KRONOSPAN ApS assumes no liability for this. NOVOPAN Climate Flooring® is manufactured under meticulous quality control. The product from KRONOSPAN is under continuous development, and the technical specifications are provided subject to reservations for modifications. In general, please refer to our current Terms and Conditions of Sale and Delivery.

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