

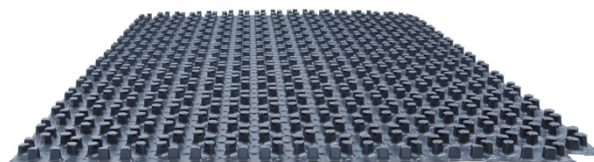


TYCROC® NOB UNDERFLOOR HEATING PANEL INSTALLATION INSTRUCTIONS

Revision Date: 7 May 2026

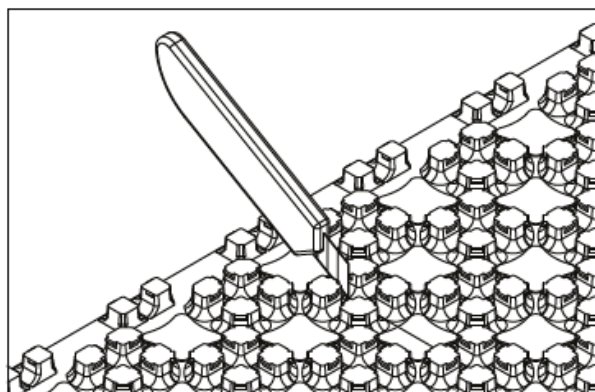
1. PRODUCT IDENTIFICATION

PRODUCTS	DIMENSIONS
NOB14	1400 × 800 × 20,5 mm*
*uninstalled: 1450 × 850 mm	



2. CUTTING AND STORAGE

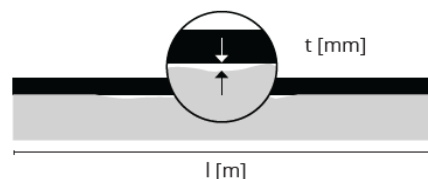
Tycroc NOB panels are easy to cut using a utility knife (carpet/gypsum knife). There are no special storage requirements, but it is advisable not to store the panels edgewise to avoid possible damage (broken corners and edges, etc.).



3. APPLICATION CONDITIONS

Before installing the wet installation system, the on-site conditions must be checked — they must comply with the relevant technical standards. Pipe and/or cable passages must be suitably covered and recessed into the subfloor to ensure a smooth base surface for laying the Tycroc NOB panel. The panels can be installed onto any bearing substrate (concrete, OSB board, plywood, boarding, etc.).

When installing Tycroc NOB panels, the underlying surface must be level, dry, strong, rigid and stable. It must also be free from dirt, oil and other lubricants, and must not be frozen. If necessary, or if the substrate does not meet the requirements of DIN 18202, it must be levelled using suitable products.

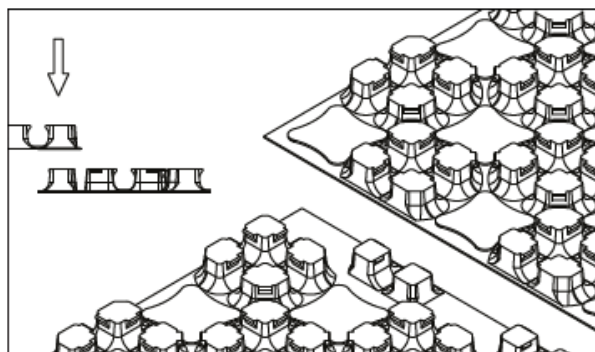


l [m]	0,1	1	4	10	15
t [mm]	2	4	10	12	15

Dimensions as limit values t [mm] at measuring point distances l [m]

4. INSTALLING TYCROC NOB ONTO A BEARING SURFACE

Correct system installation starts with placing the Tycroc PES perimetral strip along the floor/wall corners of the subfloor, then installing the Tycroc NOB panels directly onto the subfloor. The Tycroc NOB panels must be laid so that they overlap one another and the floor/wall edges rest against the Tycroc PES perimetral strip. If any part of the subfloor remains uncovered by NOB panels, it must be protected with a polyethylene (PE) film to prevent the screed from bonding to the subfloor, ensuring that the solution remains fully floating.

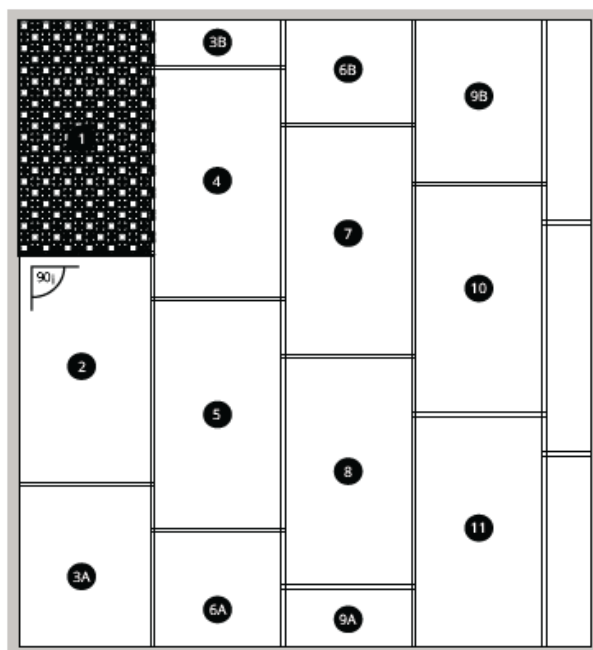


Overlap

It is recommended to start laying the panels from a corner of the room in the direction of the longest wall. The off-cut from a panel can be reused to start the next row, which saves material and reduces waste.

Attention! Each Tycroc NOB panel has a row of reduced-size "buttons" along one short edge and one long edge. When installing the panels with an overlap, position these reduced-size "buttons" so that they are always at the bottom, pressing them into the standard-size "buttons" of the adjacent panel to lock the panels together.

Technical drawings are provided at the end of these installation instructions.

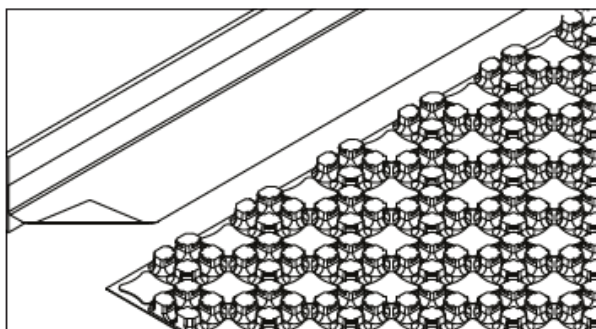


5. LAYING THE PERIMETRAL STRIP

The Tycroc PES perimetral strip acts as an expansion joint. It is installed around the entire heated room and around every structural element that passes through the wet installation system (columns, stairs, pipes, etc.). The Tycroc PES perimetral strip has a thickness of 6 mm and a height of 140 mm, and is cut to the required size before the finishing material is laid. The strip also includes a 300 mm polyethylene (PE) flap that covers the NOB panel.



PRODUCTS	DIMENSIONS
PES06	6 × 140 mm (300 mm PE flap)



6. PIPE LAYING

Based on the prepared heating project, determine the start and end points of the pipe and the laying pattern, then press the pipe by foot or by hand into the gaps between the "buttons" of the NOB panel.

The Tycroc NOB panel allows heating pipes to be installed at both 90° and 45°.

Possible pipe installation pitches:

- 50 mm / 100 mm / 150 mm / 200 mm for 90° installation;
- 71 mm / 142 mm / 213 mm / 284 mm for 45° installation.

Suitable pipe diameter: 14–17 mm.



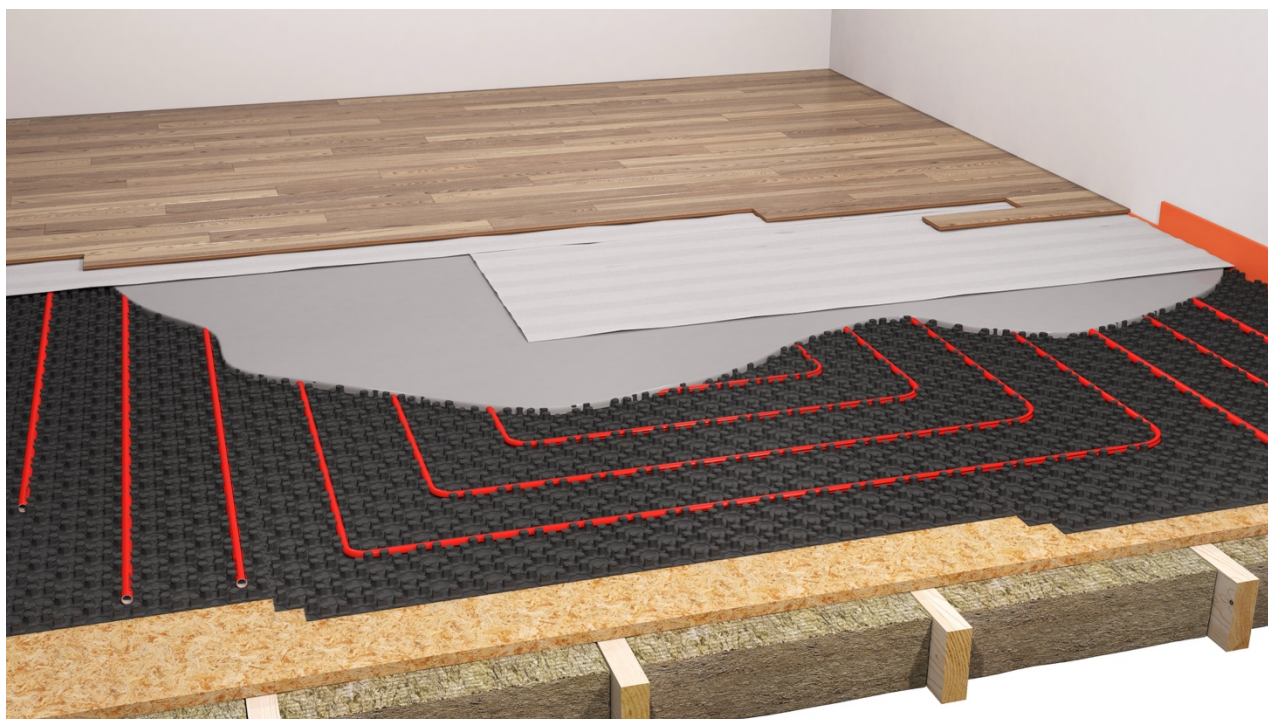
PIPE CONSUMPTION RATE

Installation pitch 50 mm	20 lm / m ²
Installation pitch 100 mm	10 lm / m ²
Installation pitch 150 mm	6,7 lm / m ²
Installation pitch 200 mm	5 lm / m ²

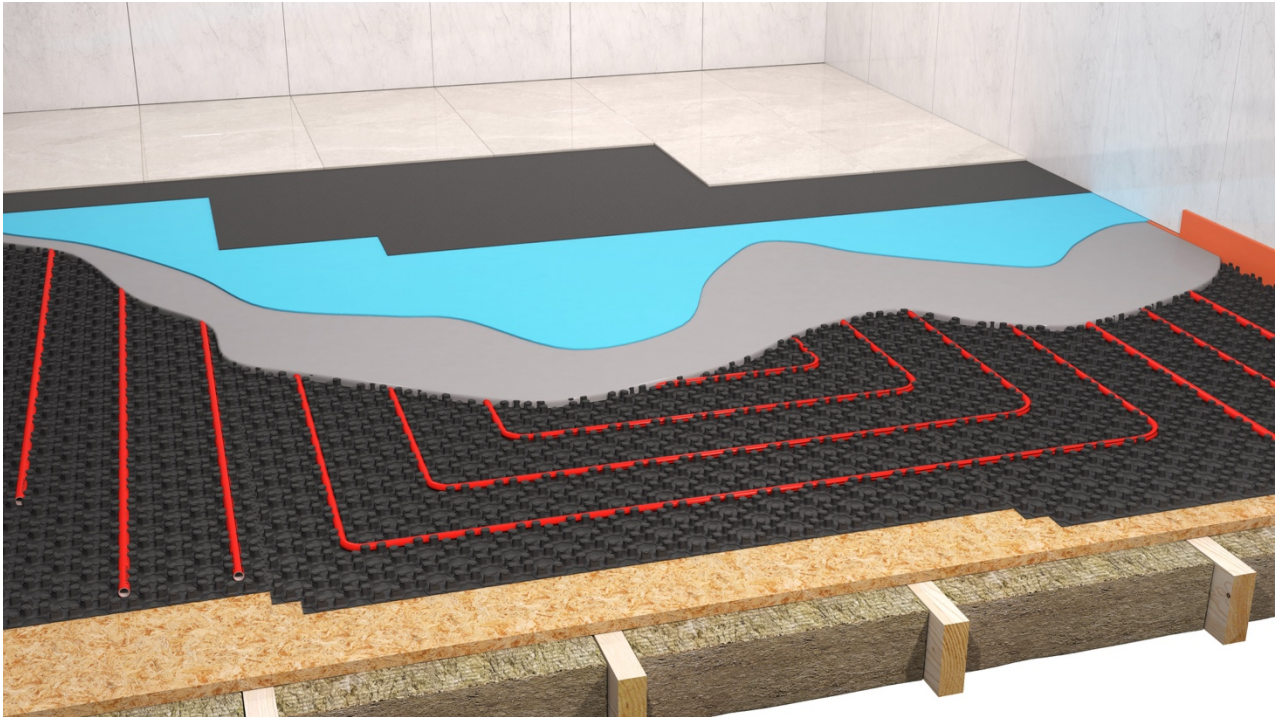
7. LAYING AND FINISHING

Tycroc NOB panels are covered with concrete, calcium-sulphate (gypsum-based) screed, or a self-levelling compound. The chosen covering method and screed thickness are determined according to the conditions set out in the project. When laying the screed, the manufacturer's instructions must be followed; the minimum and maximum permitted thickness must also comply with the manufacturer's instructions. The finishing material is laid onto a dry screed after measuring the residual moisture with a special CM moisture meter.

If necessary, the floor is heated for a few days before laying the finishing material. The residual moisture before installing the floor covering must comply with the applicable standards and with the requirements of the chosen finishing material manufacturer.



Tycroc NOB panel in a dry room



Tycroc NOB panel in a wet room

8. LEGAL NOTICE

These installation instructions contain general recommendations and guidelines for the construction of various types of structures and the installation of floor covering materials. For more detailed installation guidance regarding a specific floor covering material or building board used as an intermediate layer, the manufacturer or supplier of that material should be consulted. In the event of any conflict, the instructions of the respective manufacturer shall always prevail.

Tycroc OÜ shall not be held liable in cases where the construction has not been carried out in accordance with the applicable building standards, these installation instructions, or the installation instructions of the floor covering manufacturer. We recommend that qualified professionals be used for the installation of the products.

The information provided in these installation instructions is based on the knowledge and testing available at the time of their preparation. Tycroc OÜ reserves the right to amend these installation instructions without prior notice. Upon publication of new installation instructions, all previous installation instructions for the same product or system shall automatically become invalid.

9. TYCROC PRODUCTS FOR A COMPLETE UNDERFLOOR HEATING SOLUTION

Tycroc PERT pipes		
PRODUCTS	DIMENSIONS	
PERT16-120	16 × 2,0 mm	120 m
PERT16-240	16 × 2,0 mm	240 m
PERT16-480	16 × 2,0 mm	480 m
PERT16-640	16 × 2,0 mm	640 m
PERT17-120	17 × 2,0 mm	120 m
PERT17-240	17 × 2,0 mm	240 m
PERT17-480	17 × 2,0 mm	480 m
PERT20-120	20 × 2,0 mm	120 m
PERT20-240	20 × 2,0 mm	240 m
PERT20-480	20 × 2,0 mm	480 m
PERT20-640	20 × 2,0 mm	640 m



Tycroc TSL manifolds

PRODUCTS	DIMENSIONS
TSL1	1¼" - 1 × 3/4" Euro
TSL2	1¼" - 2 × 3/4" Euro
TSL5	1¼" - 5 × 3/4" Euro



Tycroc TSL valves with handles

PRODUCTS	DIMENSIONS
TSL-VA1	1¼"-1", L = 60 mm, (pair)



Tycroc TSA actuators

PRODUCTS	DIMENSIONS
TSA230	230 V ~ 50-60 Hz 1,8 W NC M30 × 1,5
TSA24	24 V ~ 50-60 Hz 1,6 W NC M30 × 1,5



Tycroc SmartOne thermostat

PRODUCTS	DIMENSIONS
SMART1	85 × 85 × 12 mm (screen: 4" 480 × 480 24 bit)
SENS-F floor sensor	4 × 45 mm / 3 m



Tycroc TCA compression adapters

PRODUCTS	DIMENSIONS
TCA16	16 × 2 mm 3/4" Euro
TCA17	17 × 2 mm 3/4" Euro
TCA20	20 × 2 mm 3/4" Euro



Tycroc PBS 90° plastic bend supports

PRODUCTS	DIMENSIONS
PBS16	∅ 14 - 18 mm pipe
PBS20	∅ 20 - 22 mm pipe



11. TECHNICAL DRAWINGS

