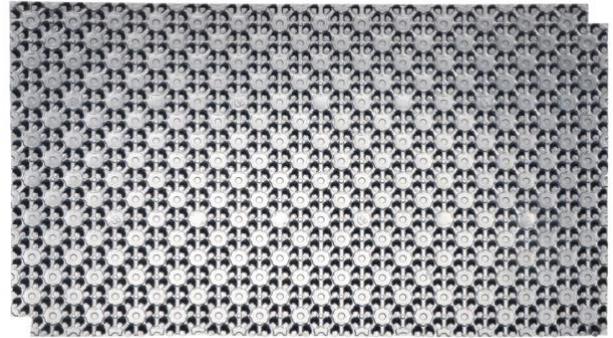


TYCROC NOB

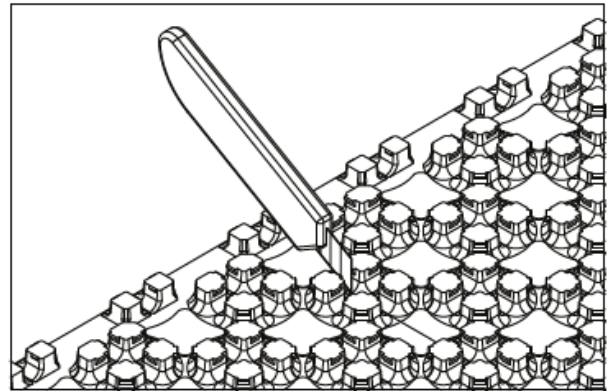
INSTALLATION INSTRUCTIONS

PRODUCTS	DIMENSIONS
NOB14	1450x850x20,5mm (installed 1400x800 mm)



CUTTING AND STORAGE

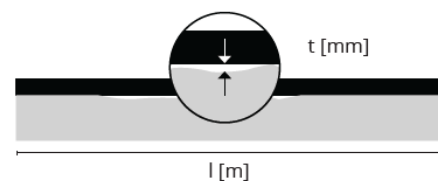
The cutting of the Tycroc NOB wet installation panels is easy, using carpet/gypsum knife. There are no special requirements for storage, but it is advisable not to store the panels edgewise to avoid possible damage (broken corners and edges, etc).



APPLICATION CONDITIONS

Before proceeding with the installation of the wet installation system, the site conditions must be checked - which must comply with the relative technical standards. Passages of pipes and/or cables must be suitably covered and recessed in the substrate layer in order to guarantee the base surface for laying the NOB panel. Installing Tycroc NOB panel the underlying surface has to be level, dry, strong, rigid and stable. It also has to be free from dirt, oil or other lubricants and it cannot be frozen.

If necessary, the underlying surface has to be levelled using products for intended use. Tycroc NOB panel is suitable for installing onto a bearing surface, both onto a wooden structure (for example boarding, OSB board, plywood, etc.) as well as onto a concrete surface. If the substrate does not meet the requirements of DIN 18202, it must be levelled with a suitable product.

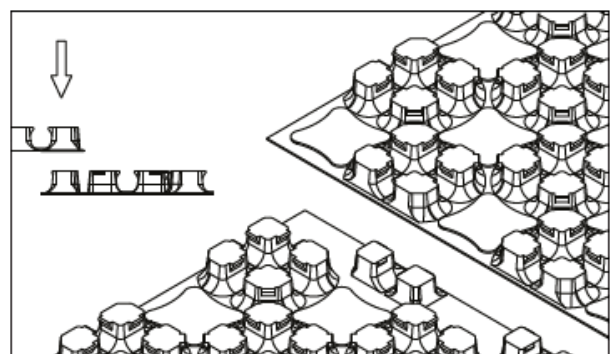


l [m]	0,1	1	4	10	15
t [mm]	2	4	10	12	15

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

INSTALLING TYCROC NOB ONTO A SURFACE

Correct system installation involves using Tycroc PES perimetral strip at the floor/wall corners of the subfloor and then installing Tycroc NOB panel directly to the subfloor. Tycroc NOB panel should be installed with the panels overlapping and the floor/wall edges against the Tycroc PES perimetral strip. If there are portions of the subfloor not covered by NOB panels, these must be protected by a PE sheet to prevent the screed from anchoring to the subfloor itself, ensuring that the screed is in all respects floating.

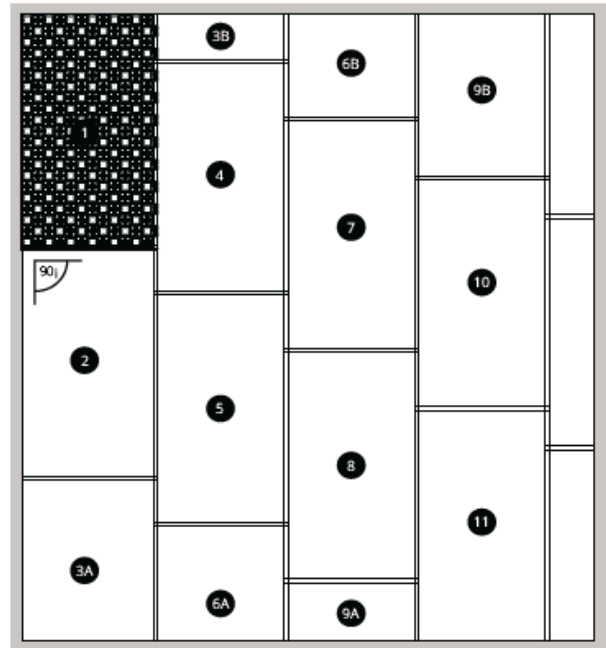


Overlapping

It is recommended to start laying the panels starting from a corner of the room in the direction of the longest wall. Cut the excess part of the last panel of the row with a cutter and inserting the advanced part in the next row, making the joints coincide, so you can phase out the rows ensuring greater compactness and a reduction of scraps.

Attention! Each Tycroc NOB panel features a row of smaller “buttons” along one short edge and one long edge. When installing panels with an overlap, ensure these smaller “buttons” are always positioned at the bottom. Press them into the standard-sized “buttons” on the adjacent panel to securely lock them together.

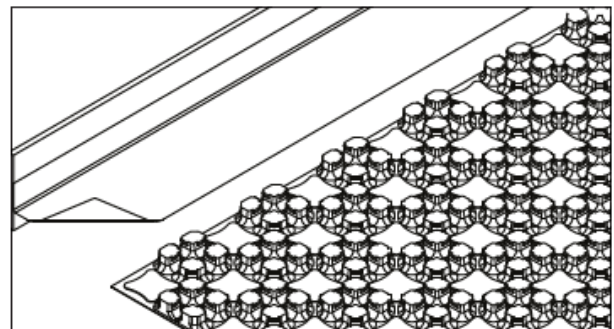
Refer to the technical drawings at the end of the installation instructions for further details.



LAYING THE PERIMENTRAL STRIP

The perimetral strip acts as a perimetral joint. It must be laid along the entire perimeter of the premises to be heated and around all the elements of the structure that penetrate the screed covering the system, such as pillars, stairs, etc. strip of adequate height useful and such as to also include the flooring. Tycroc PES perimetral strip has a thickness of 6 mm and a height of 140 mm, which is cut to size before the finishing material is applied. In addition, there is also self-adhesive edge strip and 300 mm PE flap to cover the edges of the NOB panel.

PRODUCTS	DIMENSIONS
PES06	6X140 mm (300 mm PE flap)



Tycroc PES perimetral strip with PE foil

PIPE LAYING

Laying of the pipe must respect the project in terms of the maximum pitch and length of the circuits. After consulting the executive project, it will be necessary to identify the point from which to start and the relative connection to the manifold, so that the pipes at the start and finish have a radial distribution without any overlapping.

Tycroc NOB panel allows the installation of \varnothing 14-17 mm heating pipes at 90° as well as 45°.

Possible pipe installation pitches:

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

Suitable pipe diameter: 14 – 17 mm.



CONSUMPTION STANDARD OF THE PIPE

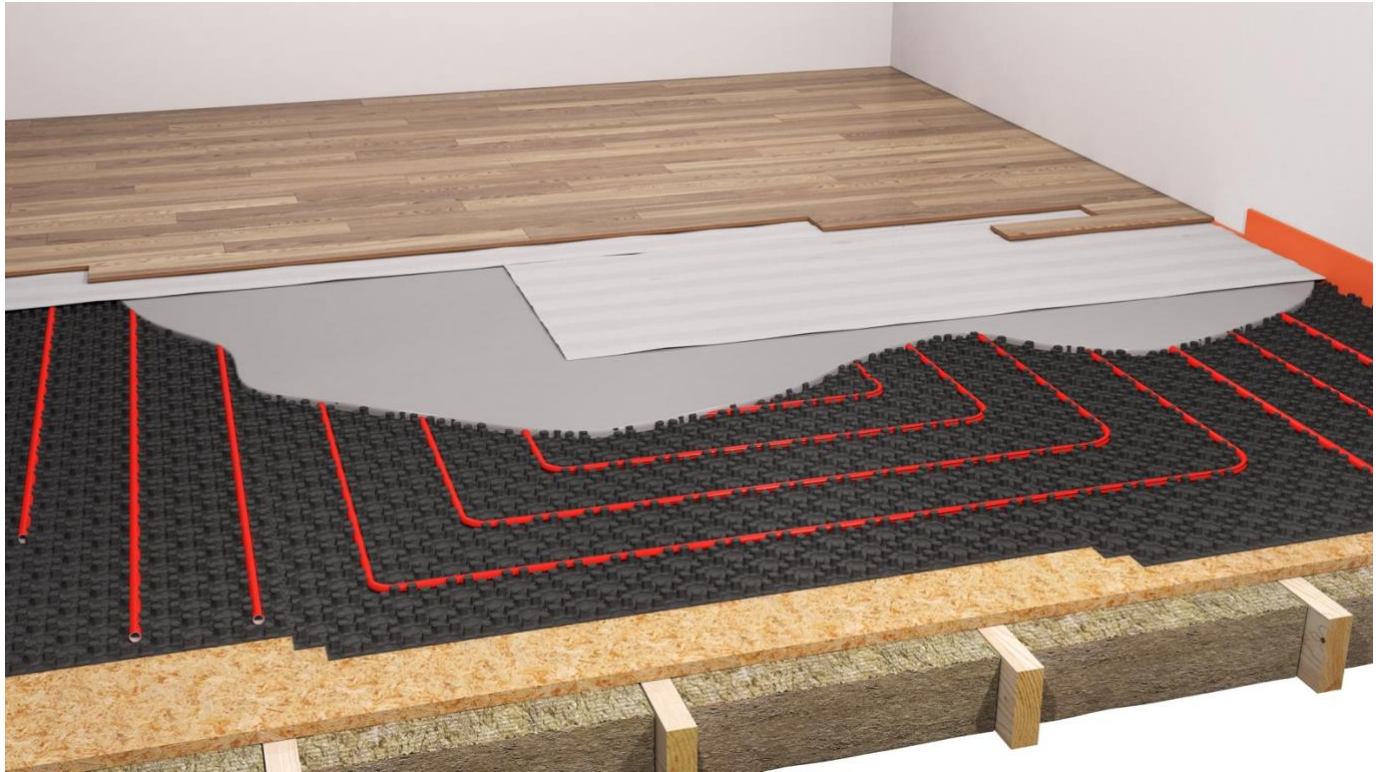
Installation pitch 50 mm	20 lm / sqm
Installation pitch 100 mm	10 lm / sqm
Installation pitch 150 mm	6,7 lm / sqm
Installation pitch 200 mm	5 lm / sqm

LAYING AND FINISHING

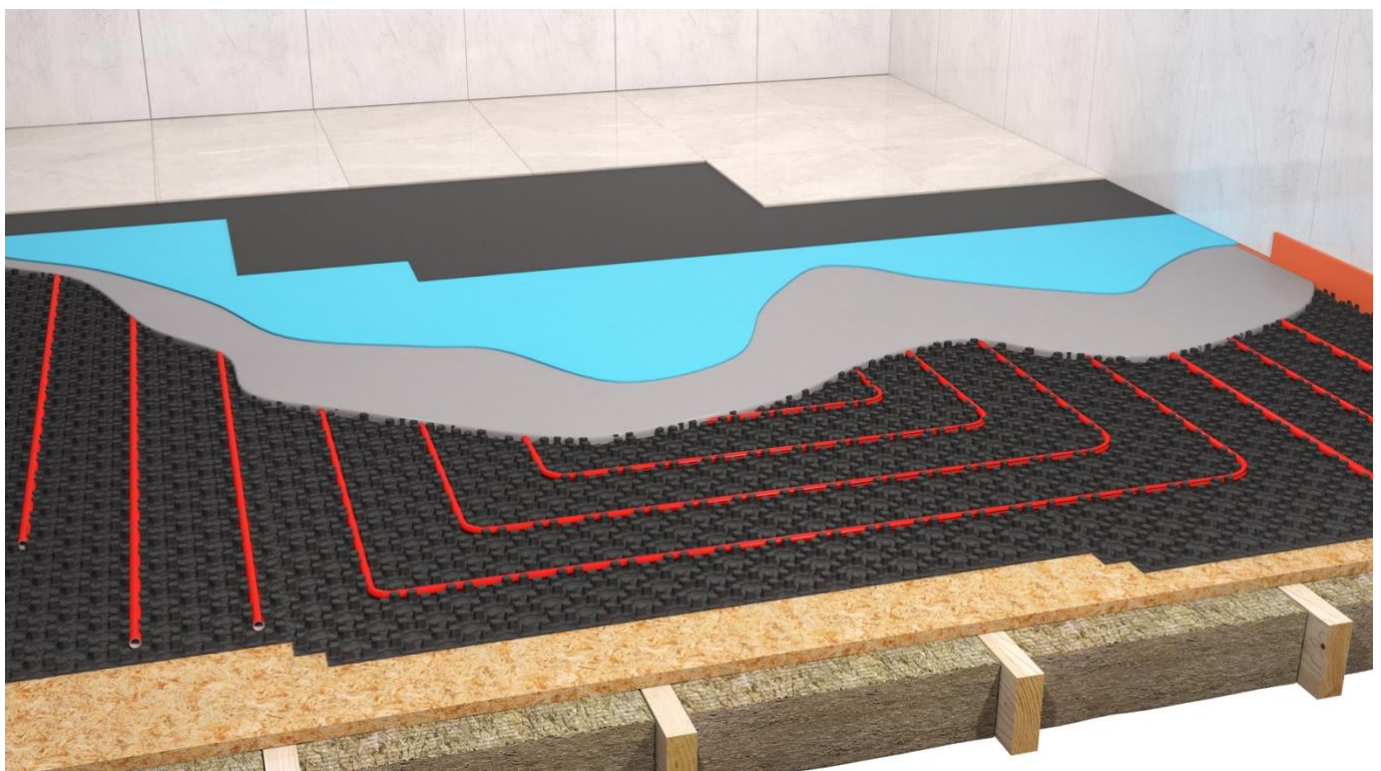
The coverage will take place according to the relative standards and the provisions of the specific categories.

Laying the level must follow the manufacturer's instructions. Minimum and maximum allowed thickness of the screed must follow the manufacturer's instructions. The coatings will be laid in a dry screed and after measuring the residual humidity with a special CM carbide meter.

Sometimes, for improve the execution of the floor, it may be required to heat the screed further through the floor system. This is the case, for example, of the laying of glued wooden floors: put for some days in operation, the heating before starting to smooth the floor allows a settling parquet before grouting. For the application of the level, in consideration of the reduced thicknesses and protection of the final system performance, it is recommended to use specialized application teams.



Tycroc NOB panel in dry area



Tycroc NOB panel in wet area

OTHER COMPONENTS OF TYCROC RADIANT HEATING AND COOLING SOLUTION

Tycroc PERT pipes

PRODUCTS	DIMENSIONS
PERT16-120	16X2,0 mm 120 m
PERT16-240	16X2,0 mm 240 m
PERT16-480	16X2,0 mm 480 m
PERT17-120	17X2,0 mm 120 m
PERT17-240	17X2,0 mm 240 m
PERT17-480	17X2,0 mm 480 m
PERT20-120	20X2,0 mm 120 m
PERT17-240	20X2,0 mm 240 m
PERT17-480	20X2,0 mm 480 m



Tycroc TSL manifolds

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



Tycroc TSL valves with handles

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



Tycroc TSA actuators

PRODUCTS	DIMENSIONS
TSA230	230V ~ 50-60Hz 1,8W NC M30x1,5
TSA24	24V ~ 50-60Hz 1,6W NC M30x1,5



Tycroc SmartOne thermostat

PRODUCTS	DIMENSIONS
SMART1	85x85x12 mm (screen: 4" 480x480 24 bit)



Tycroc TCA compression adapters

PRODUCTS	DIMENSIONS
TCA16	16x2 mm 3/4" Euro
TCA17	17x2 mm 3/4" Euro
TCA20	20x2 mm 3/4" Euro



Tycroc PBS 90° plastic bend supports

PRODUCTS	DIMENSIONS
PBS16	14-18 mm pipe
PBS2	20-22 mm pipe



NOB14 TECHNICAL DRAWINGS

