

## TYCROC UHP

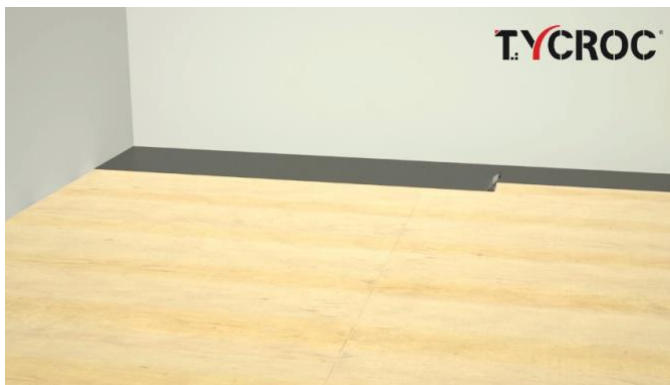
Installing the Tycroc UHP under panel for the floor heating the underlying surface has to be level, dry, strong, rigid and stable. It also has to be free from dirt, oil or other lubricants and it cannot be frozen. If necessary, the underlying surface has to be levelled using products for intended use.

### CUTTING AND STORAGE

The cutting of the Tycroc UHP under panel for the floor heating is easy, using carpet/gypsum knife, also certainly an electric circular saw, compass saw or handsaw. 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).

### INSTALLING TYCROC UHP ONTO A BEARING SURFACE

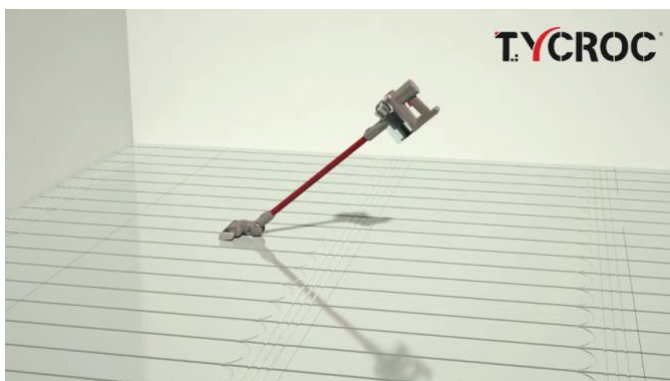
The Tycroc UHP is suitable for installing onto a bearing surface, both onto a wooden structure (for example boarding, OSB board, plywood, etc.) as well as onto a concrete surface. Glued Tycroc UHP ensures stiffer and more stable surface underneath the flooring. Using a Tycroc Fast FIX acrylic adhesive or proper adhesive for tiles (chosen according to the underlying surface), install the panels by full spread gluing in compliance with the previously prepared project.



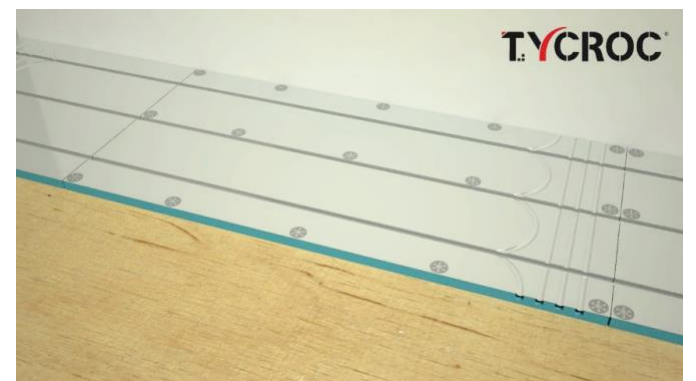
The underlying surface has to be free from dirt, oil or other lubricants and it cannot be frozen. Transfer the adhesive to the underlying surface (for better bonding, cover the surface prior to the gluing with adhesive dispersion).



Place the panels onto the mixture and press down lightly. Check that the panels are levelled on the floor (as a good tool for levelling, a hammer and a wooden support board or block can be used – level the panel to its place by tapping).



Before the installation of the heating pipe make sure that the channels are clean of dirt Avoid too many steps on the empty channels to not broke the edges of the channels



For the later floating flooring, it is possible to fasten the Tycroc UHP panels to the floor using Tycroc screws and washers. Max distance between screws and washers can be 300mm.

**ATTENTION!** Glued Tycroc UHP ensures stiffer and more stable surface underneath the flooring.



## TYCROC FAST FIX ACRYLIC ADHESIVE APPLICATION INSTRUCTIONS

### Application conditions

Usage temperature between +18 °C and +25 °C. Relative humidity in the room should not exceed 65%. Prior to gluing, the adhesive and the material to be glued should achieve the same temperature as the floor (+18 °C to +25 °C). Relative humidity of the substrate should be 85–90% RH at the maximum, depending on the material. Protect from moisture, if needed. Concrete floors and floors made from a levelling compound are recommended to be primed. When installing floor or wall coverings, instructions by the manufacturer should always be followed. With regard to floor heating, the precautions according to the manufacturer of the flooring should always be followed.

### Application instruction

**Preparation:** The substrate should be ready for installation, i.e. strong, clean, dry, and free of oil, dust and fat. Usage conditions should be checked in accordance with effective construction requirements and DIN 18356. Grind cement, concrete and self-levelling substrates and uneven, older and unstable substrates, until a strong, adherent surface is achieved. After grinding, remove dust from the floor.

**Application:** Prior to application, the adhesive should be well stirred. Apply the adhesive to the substrate, by using a trowel. Do not use more adhesive than is needed for gluing the flooring. Install the flooring immediately or after a short waiting period. Spread the adhesive well in order to remove excess air and ensure a good contact between the adhesive and the flooring. Best results are achieved by using a flooring roller. Make sure that the whole flooring surface has a good contact with the adhesive.

**Wet gluing:** Apply the adhesive by using a trowel. Place the material to be glued on a wet adhesive. The latest time for wet gluing is up to 20 minutes after applying adhesive to the substrate. The glued material should be well rubbed by using a suitable tool.

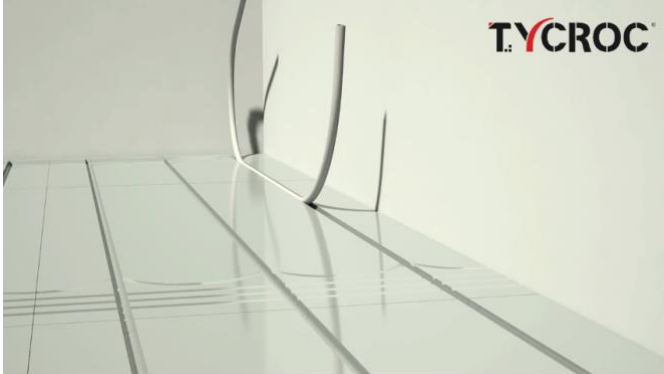
**Double-sided gluing:** Apply the glue with a trowel. Place the material to be glued on a wet adhesive, separate the surfaces and let the adhesive dry for 5–10 minutes before connecting the glued surfaces again. When using double-sided contact gluing, it is very important that the cover is pressed strongly against the surface. In wet rooms, all joints of the flooring should be sealed.

**Rate of consumption for Tycroc UHP:** ca 0,6 kg per sqm - that is one 15 kg bucket per 25 sqm or ca 35 panels (panel measures 1200x600 mm).

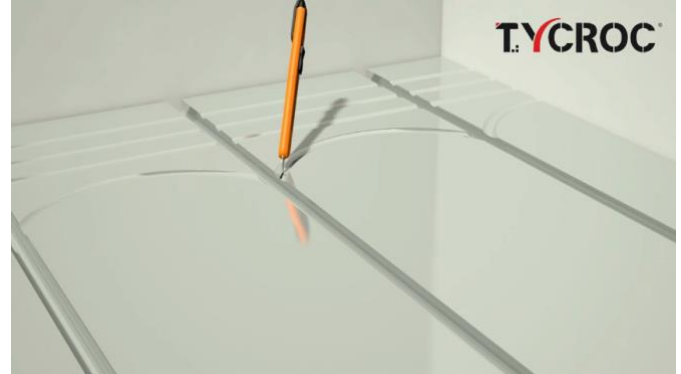
# INSTALLATION INSTRUCTIONS

## INSTALLING THE HEATING PIPE

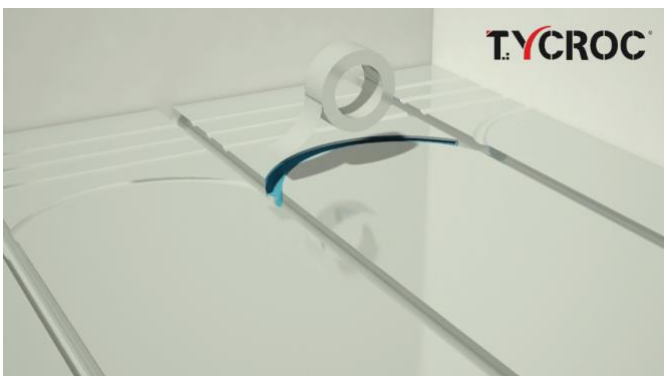
Tycroc UHP boards are available Ø16mm or Ø20mm floor heating pipes. Install a heating pipe (5m pipe for 1m<sup>2</sup>) according to the previously prepared project and in compliance with the producer's installation instructions.



Press the floor heating pipe by hand or foot into the Tycroc UHP channels. Ensure that the pipe reaches connection point and adding 1m.



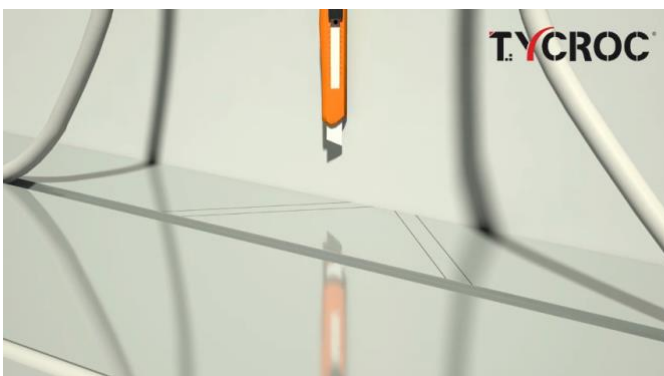
For a U-turn or crossing channels near the walls, cut the aluminium foil with a knife first to "open" the channels, and press the foil into the channel, using e.g. a knife handle.



Before the installation of the heating pipe use aluminium tape bottom of the channels.



If necessary fix the pipe inside U-turn or crossing channels by aluminium tape.



Cutting a new channel - using carpet/gypsum knife or electric tool cut the new channel, again the aluminium tape to the bottom of the channel (ensure that the radius is not less than 90mm).

**ATTENTION!** Before flooring installation main walkways should be covered OSB or plywood to protect the UHP until the finishing material is installed.

## INSTALLING THE FLOORING ONTO TYCROC UHP

Tycroc UHP can be used under all common floorings, including parquet, wood, ceramic tiles, and natural stone. If necessary, the Tycroc UHP panel can be covered with concrete or gypsum casting and different ready-made dry floor covering materials, such as gypsum baseboard, cement fibre boards, or gypsum plasterboards.



### 1. Parquet:

- install the parquet in compliance with the producer's installation instructions;
- install an impact sound insulation or step sound insulation first (ask it from parquet dealer);
- install a parquet floatingly (gluing the parquet blocks together or using locking blocks).

### 2. Wooden floor:

- install the wooden floor in compliance with the producer's installation instructions;
- install an impact sound insulation or step sound insulation first (ask it from wooden floor dealer);
- install a wooden floor floatingly and crosswise comparing the pipe channels.

### 3. Ceramic tiles and natural stones in dry area:

- install the ceramic tiles or natural stones in compliance with the chemical producer's installation instructions;
- the underlying surface has to be level, dry, strong, rigid and stable;
- to achieve better bonding, cover the surface prior to the gluing with adhesive dispersion/primer;
- ceramic tiles and natural stone should be glued with an adhesive for tiles, which has great adhesive strength and elasticity;
- directly onto the Tycroc UHP tiles from 20x20cm are suitable, for smaller tiles cover the UHP surface by suitable floor levelling compound.

#### 4. Ceramic tiles and natural stones in wet area

- install the ceramic tiles or natural stones in compliance with the chemical producer's installation instructions;
- the underlying surface has to be level, dry, strong, rigid and stable;
- cover the UHP surface by suitable floor levelling compound, also waterproofing is required;
- ceramic tiles and natural stone should be glued with an adhesive for tiles, which has great adhesive strength and elasticity.



In conjunction with company Henkel Balti OÜ we have tested Ceresit products suitability for Tycroc UHP

For aluminium surface cleaning	acetone
Adhesive dispersions / primers	Ceresit CT 19
Floor levelling compounds	Ceresit CN 75, CN 76 + fiber net
Waterproofing membranes	Ceresit CL 50, CL 51
Adhesives	Ceresit CM 49, CM 77



In conjunction with company Kiilto Oy we have tested Kiilto products suitability for Tycroc UHP:

#### Fixing boards on cement based subfloor

Ultra Fix, FlexFix, FloorFix DF, Kerapid DF. On even subfloors (+/-2mm/2m) Kiilto Extra floor adhesive (350 g/m<sup>2</sup>, notching B3).

If adhering is made with tile adhesive - the back of the UHP boards must be roughened/sanded or double sided application method must be used to achieve sufficient adhesion.

#### Fixing boards on construction board subfloor

Kiilto Solid adhesive, HighFlex S2 DF. On even subfloors (+/-2mm/2m) Kiilto Extra floor adhesive (350 g/m<sup>2</sup>, notching B3).

If adhering is made with tile adhesive - the back of the UHP boards must be roughened/sanded or double sided application method must be used to achieve sufficient adhesion.

## **Levelling on top of UHP board**

1. Cleaning with acetone.
2. Fix primer.
3. Kestonit Termo, Plan Rapid. Fiber reinforced floor screeds. Min layer thickness 12 mm.

## **Membranes on levellings**

Primers: Fibergum primer or Keraprimer undiluted.

Membranes: Kiilto Fibergum, Kiilto Keramix A+X, Kiilto Kerasafe+.

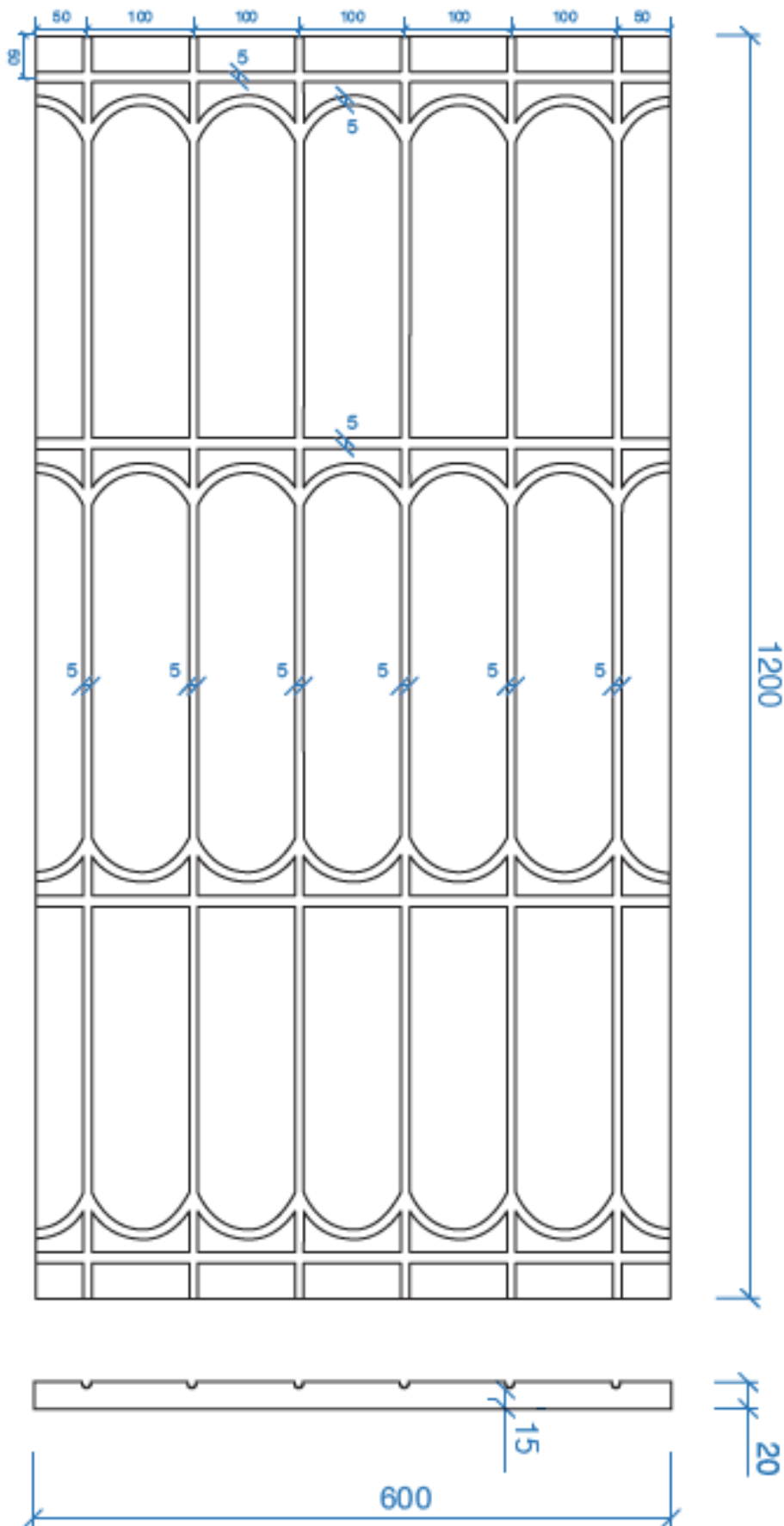
## **Tiling on UHP board**

Ultra Fix, FlexFix, FloorFix DF, Kerapid DF.

Before tiling aluminium surface should be cleaned acetone and primed thoroughly with Fix Primer. If tiling is done directly to primed board (dry areas), minimum tile size is 20x20 cm. We recommend to level boards with fiber reinforced floor screed on rooms where the floor is subjected to a greater strain than normal (eg washing machines). The screed layer increases the stiffness and heat distribution of the floor.

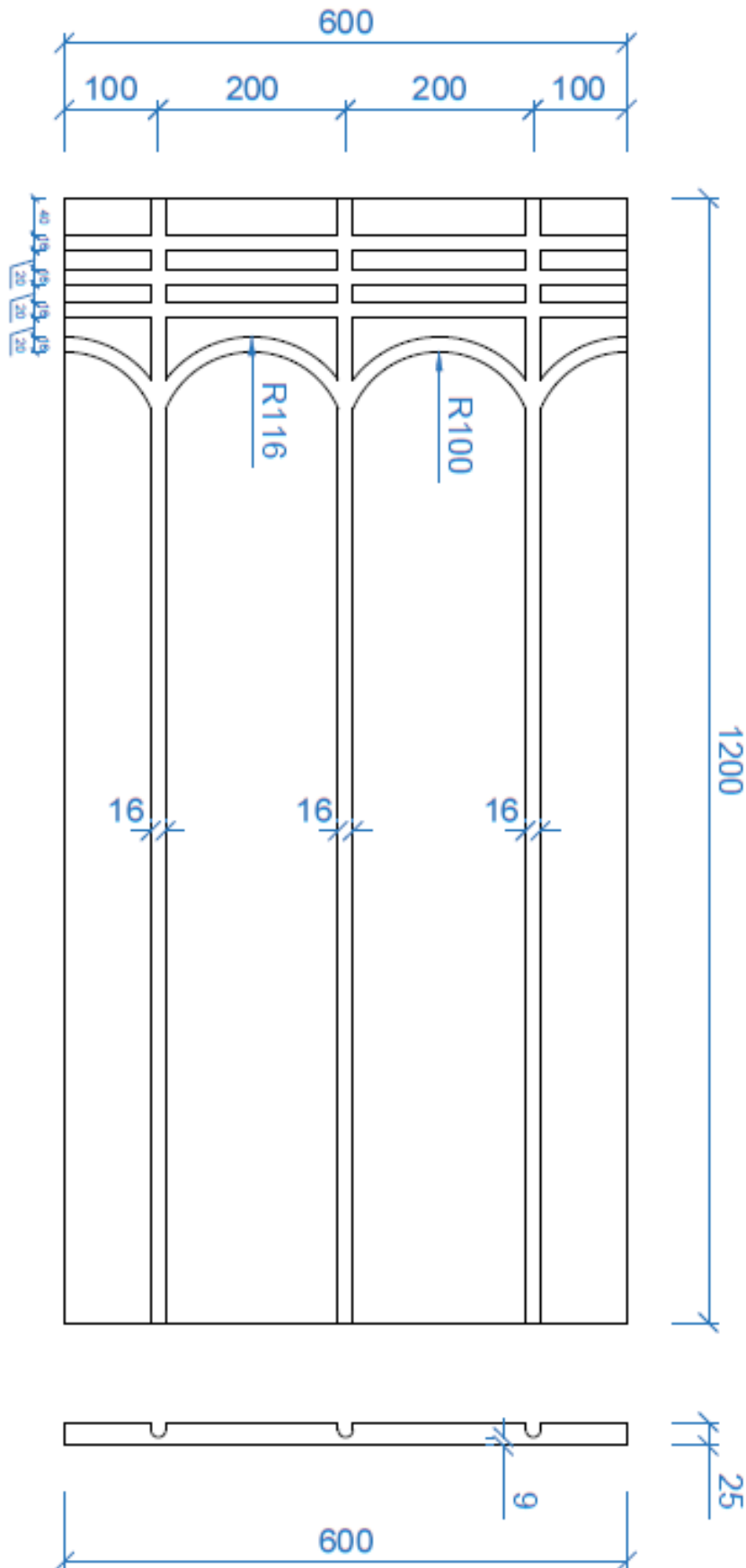
**ATTENTION!** All instructions above includes general information for different product use. Priority is producers installation instructions. If there are variations, then install the materials in compliance with the producers installation instruction.

## TYCROC UHP05 TECHNICAL DIMENSIONS



# INSTALLATION INSTRUCTIONS

## TYCROC UHP016 TECHNICAL DIMENSIONS





# INSTALLATION INSTRUCTIONS

## TYCROC UHP20 TECHNICAL DIMENSIONS

