

Microflex[®]

Flexible pre-insulated pipes

Case Study





APPLICATION

Realisation of an extensive heat network in the church of Kaprijke

- **PRODUCT**

Microflex® flexible pre-insulated pipes

- **INSTALLATION COMPANY**

Celcio

- **PROJECT**

Onze-Lieve-Vrouw-Hemelvaart church

- **LOCATION**

Kaprijke, Belgium

- **PERIOD**

June 2020

Introduction

The Onze-Lieve-Vrouw-Hemelvaatskerk of Kaprijke is a protected monument, which is carefully watched from the point of view of monument conservation. The existing heating was no longer regulated and therefore had to be replaced. For example, the temperature in the church may rise by a maximum of 1°C per hour. This is important for, among other things, the organ and the furniture. For more than 10 years there had been an application to the Flemish Community for subsidies to install a heating system that met all the conditions and in 2019 the approval to install a new heating system was finally obtained.

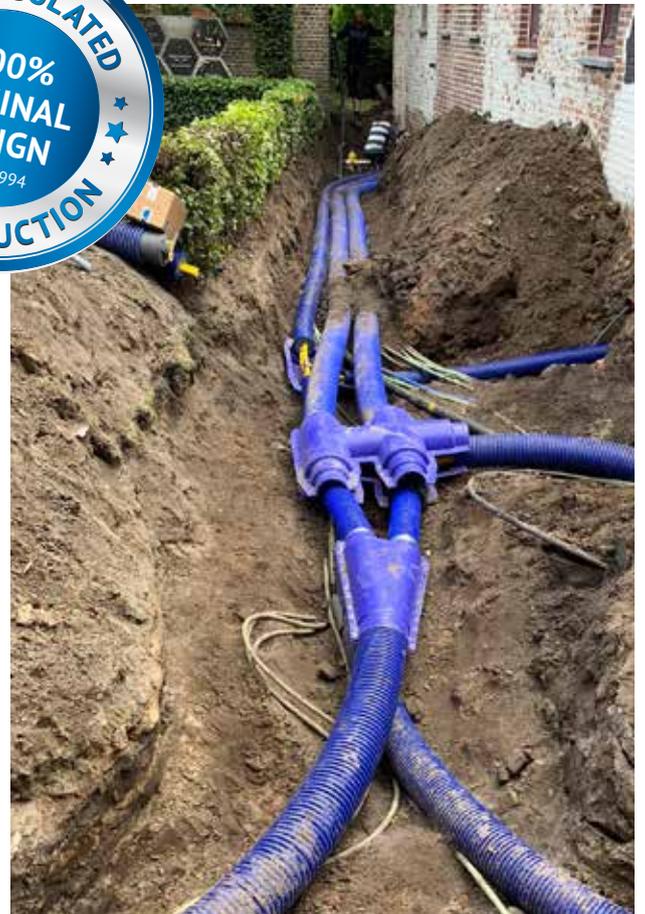


Project description

For the installation of the heat network, installation company Celcio from Ghent opted for the pre-insulated flexible pipe system Microflex® from Watts. Thanks to the low weight and high flexibility, the pipes are easy to lay and no additional bends need to be used.

Together with the installer, the Benelux team calculated two circuits: one circuit to feed the seven convectors in the church, and one circuit connecting the boiler room to the radiators in the sanitary facility, sacristy and winter chapel. A pressure and heat loss calculation was provided, together with a layout plan indicating the pipes, tees and other necessary accessories to simplify installation.

At the end of June 2020, almost 200m of heating pipe (Microflex® UNO CV, Microflex® DUO CV) was delivered directly to the site, together with the accessories for the installation of the T-connections and connections to the radiators and convectors. The required pipes were cut to size in advance. For the connections in the convectors in the church only a few tiles had to be removed from the floor. The complete installation took about 10 days.

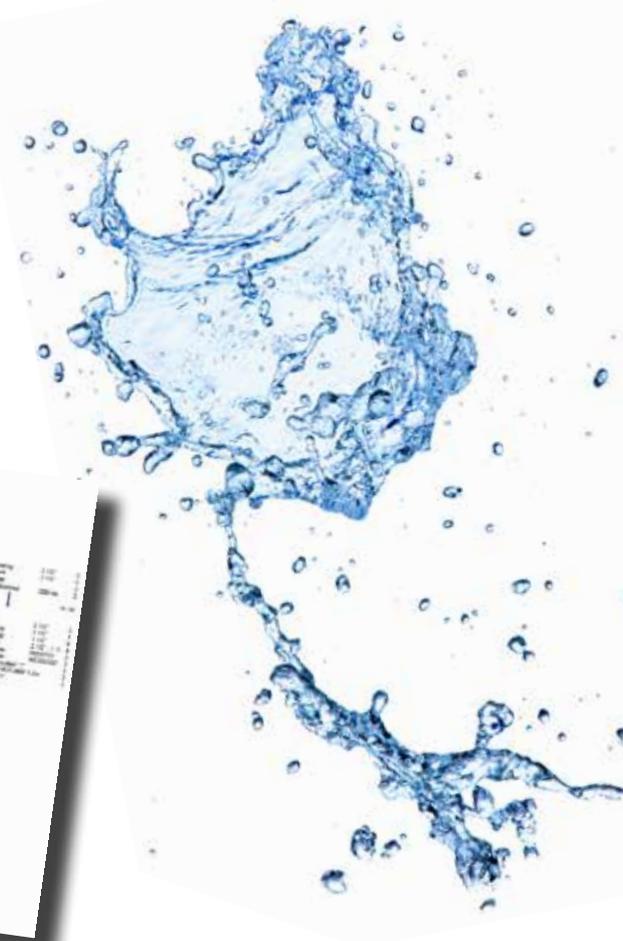
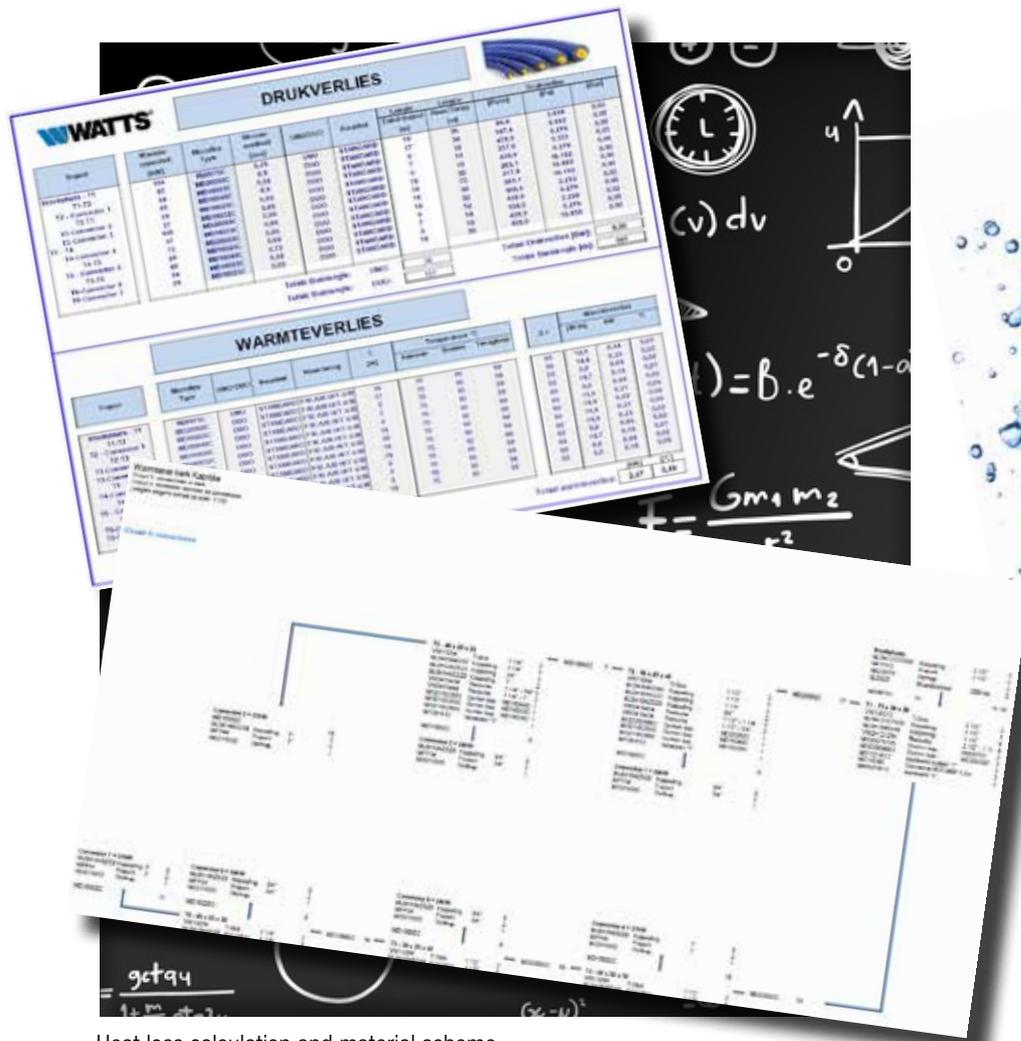


Installer's experience

"The flexibility of the pipe system was the deciding factor for us when choosing Microflex®. This allowed us to easily bypass unforeseen obstacles on site by bending the pipe around it. This was also a plus for the connection to the convectors in the church, as the space is still limited. All this resulted in a quick installation, which reduced the total cost.

The good cooperation with the Microflex® team at Watts is also a great added value. There was close cooperation with the wholesaler and with us as the installation company so that we were fully involved in the choice and delivery of the materials, and were sufficiently supported with, among other things, calculations and plans.

Finally, the materials were also delivered at very short notice. All the pipes were cut to size and labelled, allowing us to get to work immediately".



Heat loss calculation and material scheme

Watts

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