

An aerial photograph of a residential courtyard. The buildings are multi-story, with blue and red facades. In the center, there is a construction site with a large trench, black pipes, and workers. The sky is blue.

Uponor

District Heating Scheme, Scunthorpe

✓ The existing steel piping used on the District Heating Scheme in Market Hill, Scunthorpe needed replacing due to excessive corrosion, which has caused pin holing

✓ Sutcliffe Consulting Engineers turned to Uponor to supply a solution which could overcome the challenges above

✓ It was decided that Ecoflex was the best solution, with over 1500m was installed

Reference: District Heating Scheme, Scunthorpe

Originally built in the 1960's, Market Hill housing estate in Scunthorpe is made up of ten maisonette blocks, each home to eight flats, and three high rises with 76 flats in each building. Heating and water was supplied to all the properties by a district heating system, but due to excessive corrosion and leaks, the piping needed replacing. Ongo Homes made the decision to replace the full district heating network. This full system refit had to be undertaken with minimum disruption to the 350 residents and with no relocation into temporary accommodation.

Due to the nature of the project, the existing piping system could not simply be switched off and replaced. This ruled out traditional building materials that are usually time consuming to install and weld, so Sutcliffe Consulting Engineers turned to Uponor, specifying its Ecoflex pre-insulated pipe systems.

Uponor involvement

The heating network consisted of a new plant room installation, plant room piping and replacement of the full district heating system. Due to the confined space, K Binks Mechanical Engineers- appointed by Ongo Homes to install the system worked with Uponor to split the pipe order so products were only delivered to site when required.

Overall, pipe connections were minimised across the total pipework run of 1,500m, making the project particularly unique.

The next phase of the project was to completely disconnect the old system, leaving the new system to successfully transport water around the housing. To achieve this, Uponor worked closely with the different contractors involved to provide technical assistance, ensure that the products used were fit for purpose and to oversee the smooth disconnection of the old system.

Benefits

Uponor's Ecoflex pre-insulated pipe system was a perfect fit, due to its increased lifespan and potential for long, joint free runs making it quicker and easier to install. Another reason for choosing Uponor's plastic piping over a steel alternative was that its system could be run alongside the existing mains, and work in tandem with old mains that were still active. This flexibility meant that the building work disruption was kept to a minimum and residents could remain in their properties.

Project details

- Product- Ecoflex Thermo PRO
- Quantity supplied- 1,500 m of pipework supplied
- M&E contractor- K Binks Mechanical Engineers
Sutcliffe Consulting Engineers
- Client-Ongo Homes, Installer- Ignite Gas Services

Reference pictures



Uponor Limited

The Pavilion,
Blackmoor Lane,
Watford, Hertfordshire,
WD18 8GA

T 01923 927000
F 01923 223760
E enquiries.uk@uponor.com
W www.uponor.co.uk