

# East Lothian Community Hospital – Case Study



## KEY POINTS:

- The new East Lothian Community Hospital has been designed to accommodate a 60% increase in inpatient beds
- Uponor were selected to supply multi-layer composite pipe, pre-insulated pipe and an underfloor heating solution
- Innovative installation methods were adopted to keep the project on track

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## PRODUCTS SUPPLIED:

- Ecoflex Twin 32mm/110mm (125m)
- Ecoflex Thermo single 110m (130m)
- Underfloor Heating in Slab (6,200 sqm)
- Multi-Layer Composite Pipe (MLCP)

## KEY PARTIES:

M&E Contractor: *FES*  
Primary Consultant: *Rybka*  
Contractor: *Robertson Construction*  
Client: *East Lothian Community Hospital*  
POD manufacturer: *Offsite Solutions*

## Background

The new East Lothian Community Hospital is currently being built on the site of the current Roodlands Hospital in Haddington. It will incorporate modern facilities and has the capacity to accommodate a 60% increase in inpatient beds, which will help enhance patient welfare.

After building a long-standing relationship with FES (M&E Contractor), Uponor were selected to provide pre-insulated pipe, multi-layer composite pipe (MLCP) and an underfloor heating solution for the hospital.

## Uponor Involvement

Working closely with the primary consultant (RYBKA) on the project, Uponor designed an in-slab underfloor heating solution that was environmentally friendly and met the stringent specification that was set. One such requirement which Uponor were able to meet was to design a manifold which occupied a reduced space and assisted with regulating water consumption.

Uponor's services were also enlisted for the installation and commissioning of the system. In total, four individual blocks were included in the scope of work.

A key part of the project also involved working with Offsite Solutions to create POD's, which included MLCP for transporting drinking water in the hospital.

As the project developed, it became apparent that the client would also require a solution which could supply a regular flow of hot and cold water from the energy centre to the building. After a rigorous selection process, Uponor's Ecoflex pre-insulated pipe range was selected due to its inherent flexibility and insulation properties.





## BENEFITS:

Due to Uponor's expertise in delivering a wide range of underfloor heating projects, innovative techniques were used to reduce installation time. For example, a common technique used for in screed systems is to clip (tacker clips) the underfloor heating pipe on top of the insulation. This method was used by Uponor for the in-slab installation and helped to keep the project on track.

Overall, the underfloor heating solution will provide enhanced comfort to patients and staff at East Lothian hospital. What's more, the Ecoflex solution will assist the client with reducing their bills as it offers market leading insulation properties.

The MLCP solution comes equip with a 25 year guarantee and is proven to supply hygienically safe drinking water.

Uponor MLCP



Uponor MLCP



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