

## CASE STUDY

**Project:** Outside House, Forest of Dean  
**Date:** 2015  
**Systems:** Underfloor heating & plumbing systems

### Project Details

Designed by Loyn & Co Architects and constructed by Forest Eco Systems Ltd the eye-catching Outside House project is a new-build construction set into a slope with a field over the top offering exceptional views of the surrounding country side. The 460m<sup>2</sup> floor area house is concrete framed construction and used Maincor products and systems in the underfloor heating and plumbing.

The underfloor heating system was installed over the concrete slab (containing the floor insulation) with 16mm Multi-layer Composite Pipe (MLCP) laid onto Mainfoil sheet and secured using Maincor Clamp Track. Over this the screed and final floor finishes were subsequently applied. The system used Maincor UFH Manifolds allowing for every loop of UFH pipe in a building to be connected to and from the central manifold in a single continuous length with no fittings in between, completely removing the possibility of joint leaks. Maincor UFH Manifolds are supplied complete with flowmeters for ease of commissioning and also included within the manifold arrangement are fill and drain ports, automatic air vents and fixing brackets. To complete the underfloor heating system the project also used Maincor's easy to use air temperature controls for maximum flexibility and increasing energy efficiency.

The project also utilised Maincor MLCP in the plumbing systems, combined with several Plumbing Manifolds to distribute hot and cold water to appliances around the property. With simple individual isolation of appliances, a manifold plumbing system provides a safe, secure and easy plumbing solution. When using MLCP there are no joints within the building fabric which reduces the chance of leakage and gives fast and easy installation.

Working with the customer to support this project Maincor provided full on-site technical support and quick turnaround times to support the build program.



### Maincor Ltd

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## MAINCOR OVERVIEW

### ABOUT MAINCOR

Established in 2007 as Maincor Ltd, we are based in Lutterworth, Leicestershire, supplying customers throughout the UK, Ireland and Channel Islands.

We are an independent UK company, part of the wider Maincor family based in Germany who manufacture and supply pipe systems for plumbing, heating, underfloor heating, as well as specialist pipe products for boiler and white goods manufacturers.

We specialise in innovative plumbing solutions and underfloor heating, using primarily multilayer composite pipe (MLCP) and we also have a PE-RT product option available. We have a product range to suit most requirements from large commercial projects such as schools and hospitals to new build housing developments through to small conservatory extensions.

Our products have the required UK WRAS approvals and many also have international approval. We are a member of UHMA (the Trade Association for Surface Heating and Cooling) and work with CIBSE (Chartered Institution of Building Service Engineers), BSRIA (Building Services Research and Information Association), IDHEE (Institute of Domestic Heating & Environmental Engineers) and CIPHE (Chartered Institute of Plumbing Engineers).

#### Manifold Plumbing Systems

With simple individual isolation of appliances, a manifold plumbing system provides a safe, secure and easy plumbing solution.

When using Multilayer Composite Pipe there are no joints within the building fabric which reduces the chance of leakage and gives fast and easy installation. For domestic applications MLCP is available in the common sizes of 16mm, 20mm, 25mm and 32mm diameters. A wide range of press and compression fittings are available to suit.



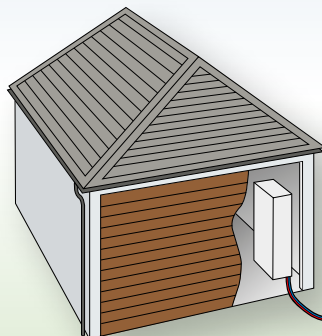
#### Radiator Manifold Systems

This system offers simple radiator isolation and, with no joints in the building fabric, a much reduced chance of leakage. The Maincor range of system controls allows for improved comfort levels and increased energy efficiency saving money for the home owner or tenants.



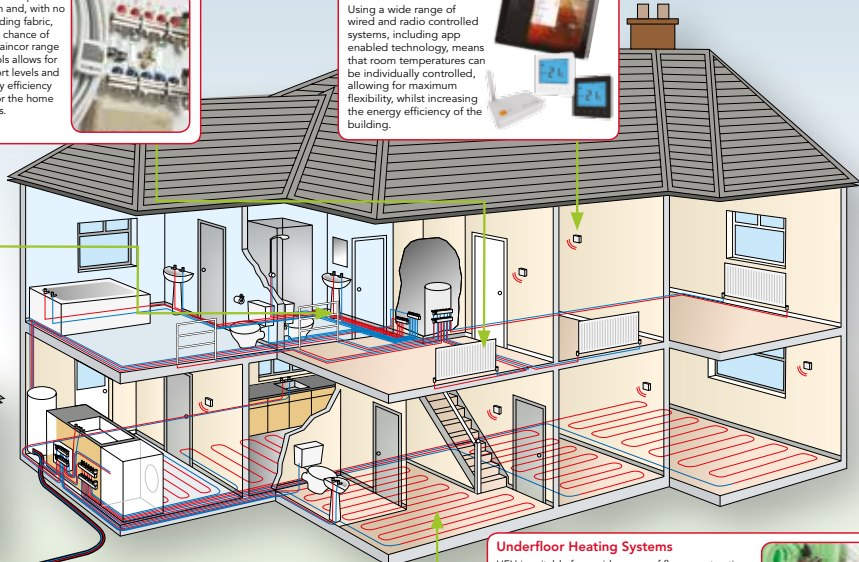
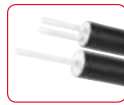
#### Sophisticated Controls

Using a wide range of wired and radio controlled systems, including app enabled technology, means that room temperatures can be individually controlled, allowing for maximum flexibility, whilst increasing the energy efficiency of the building.



#### Pre-Insulated Pipes

Whilst providing efficient transfer of hot and cold water between buildings, pre-insulated pipes are especially suited for the transfer of hot water from heat pump or biomass systems or from community heating systems.



#### Underfloor Heating Systems

UFH is suitable for a wide range of floor constructions, on both ground and upper floors. Using Maincor controls, manifolds, 12mm or 16mm pipes and accessories, it is simple to create individual heating systems with the comfort required. UFH can be easily combined with radiator systems for extensions and conservatories, or to create a mixed heating system offering radiators on upper floors if required.



### MAINCOR FIVE STEP PROGRAMME

- Design
- Quotation
- Technical and Site Support
- Installation Support and Training
- Completion

If you need help finding the right Maincor products for your project our nationwide sales team will be happy to assist you, simply give head office a call on 01455 555930. We also have an 'in house' highly qualified technical team that can answer our questions. From the simplest quick question, to the most complex controls query, our team will be able to help you.

