

# Domestic Heating

## Case Study

New Build, 19 three and four Bed houses, Herefordshire

Making a World of Difference



## Developer needs to achieve Code Level 3

Launched in 2006 the Code for Sustainable Homes is the Government's target for energy efficiency in newly-built properties and any new home developer must have a mandatory rating against the code.

When Bell Homes were planning to build 19 new three and four bedroomed houses in Withington, Herefordshire, they were faced with having to achieve the most stringent levels of insulation and efficiency in order to get planning permission. In line with Code Level 3, Herefordshire Council's planning department required the whole development to be 25% more efficient than current Building Regulations stipulate.



Air Conditioning | Commercial Heating  
Domestic Heating | Photovoltaics



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### Installation Summary

19 new three and four bed homes

Average living space per home approx. 85m<sup>2</sup>

Needing to be 25% more efficient than current Building Regulations stipulate

Installed 8.5kW Ecodan

Installation took 2 days

Reaching Code Level 3 is dependent on collecting enough points across a range of environmentally-friendly building options, including water efficiency, use of materials, insulation and energy provision.

**Specialist home developers achieved Code Level 3 by installing Ecodan to efficiently heat 19 new homes.**

Built with timber frames and argon-filled windows for optimum insulation, this development of 19 three and four bedroom houses at Withington found that Ecodan perfectly complimented their need for energy efficiency\*, helping Bell Homes to significantly reduce CO<sub>2</sub> emissions and achieve Code Level 3.

An average UK household produces over 5 tonnes of CO<sub>2</sub> per year, with space and water heating accounting for more than 73% of this. By using free energy from the outside air, Ecodan - the easy to install, low carbon alternative to a traditional gas or oil boiler - significantly reduces a home's running costs and carbon emissions.

With over 20 year's experience in the housing construction industry, Bell Homes found the Ecodan systems easy to install, energy efficient, environmentally-friendly and cheaper to run - certainly the way forward for developments of the future.

**Using Ecodan helped Bell Homes achieve the Code Level 3 they needed to meet.**

*\* For every 1kW of electricity fed into the outdoor unit of an Ecodan heating system you could get at least 3kW of heating energy. The overall system efficiency and energy savings will depend on how it compares to the heating system it replaced, satisfactory system design and installation, the operational settings and how the heating system is used.*



Changes for the Better

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Certificate Number: MCS HP0002  
Product Reference: PUHZ-W50V9A-A-(BS)  
PUHZ-W50V9A2-(BS), PUHZ-HW140V9A2/7HA2-(BS)



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