



# SHARKBITE® TECHNOLOGY CREATES SUSTAINABLE CONNECTIONS

Designer and manufacturer of sustainable eco homes, Cygnus Homes, has specified SharkBite® Push-Fit Technology from Reliance UK for its innovative E-Smart House. Built to Passivhaus standards, an E-Smart house can be ordered and built in as little as ten weeks, with SharkBite Fittings ensuring quick & easy installation of the plumbing system.

## Growing demand

In 2011, there were 22 million households in England alone, with that figure anticipated to rise to 24 million by 2021, more than 220,000 homes will need to be built every year. Currently, new homes are being built at a rate of 150,000 per year and take an average of six to nine months to build. Its clear new methods are needed to meet this growing demand and Cygnus Homes has risen to the challenge. The E-Smart House is an affordable, sustainable house that meets Passivhaus standards and can be built in a fraction of the time of a conventionally constructed home.

## Speed and efficiency

Utilising off-site construction for 90% of the home, including the central E-Riser Module which contains all the services for the house, the E-Smart House can be built in just 10 weeks. SharkBite® fittings are a natural fit for a modular or off-site construction project; reducing installation time by up to 75% they are a clear contributor to a faster construction schedule. Modular buildings are often transported to site in sections and having the ability to instantly demount the fittings at the production site and simply push to connect at the final building site is also a major advantage.

## A different way of thinking

Reliance UK's Engineering Manager, and lead engineer for SharkBite® Technology, Peter Graham says;

"Reliance has spearheaded metal push-fit technology across the globe for more than 30 years. We know the time and cost savings SharkBite can bring for any plumbing installation. Applying this technology to projects like Cygnus' E-Smart House is where it gets really exciting, as we are part of pioneering new construction methods for homes in the UK which could make more quality, accessible housing available at much faster construction rates."

Reliance UK and Cygnus have confirmed that they will be working together on future developments featuring the E-Smart House, delivering quality, sustainable houses with short build times.

## Why use Reliance UK?

- Natural choice for offsite construction projects
- Up to 75% reduced installation time
- Enhanced flexibility with demountable connections
- Reputable pioneers of metal push-fit technology