



**WALLTITE®**

The airtight insulation solution

# Snettisham, Norfolk

## Best Practice Case Study

### Advantages at a glance

- WALLTITE has a measured water vapour permeability, therefore it does not compromise the performance of any permeable membrane, or prevent the timbers from drying out, when subjected to prolonged periods of solar radiation.
- The system reduces unwanted air leakage and air infiltration.
- The system minimises condensation risk.
- WALLTITE spray foam insulation for roofs is certified with BBA Certificate No. 11/4816 and has undergone various performance tests.

 **BASF**  
We create chemistry

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## Best Practice Case Study



### Project data

**Project:** Snettisham, Norfolk

**Client:** Finer Living

**Scope of Project:** New build

**Year Completed:** 2011

**Products Used:** WALLTITE CL100 spray foam insulation

### Project description

WALLTITE® polyurethane spray foam insulation system was specified for a new-build detached-bungalow project in Snettisham, Norfolk. *Finer Living* designed the property to the Canadian Super E standard to create a neutral carbon structure. Finer Living aspired to reach impressive U-value results to exceed the current Building Regulations.

### Project outcome

WALLTITE CL 100 spray applied polyurethane foam insulation was applied between the roof rafters. The PU spray foam insulation was also used as part of a composite wall structure, over a 340m<sup>2</sup> wall area, to provide an air tight envelope for the property. Air tightness tests provided a result of 1.69m<sup>3</sup>/hr/m<sup>2</sup> and the walls achieved a U-value of 0.17W/m<sup>2</sup>K.

The in-situ applied expanding foam seeks and seals every joint, consequently stopping any heat loss or air leakage within the property.

### Client quote

Finer Living Director *Gregg Etches* explains: "Over the past three years I have become familiar with WALLTITE due to working with various clients in Canada. By using this product I am able to reach at least level four or five of the Code for Sustainable Homes, which far exceeds the current government regulations. This result produces a terrific benefit for the homeowner as fuel bills can be reduced by up to 90%.

In my opinion, WALLTITE spray foam insulation is entirely new and innovative – it provides high quality insulation and impressive U-value results. I enjoy working with the product and I can see its usage significantly expanding within the UK, particularly with the introduction of the Green Deal."

### Features and benefits

- Energy efficiency - the continuous spray leaves a minimal amount of surface area without insulation resulting in a 30% decrease in thermal transmission in some cases and an airtight building envelope of low permeability without the need for supplementary material.
- Sustainability - sustainable over the life span of the building, WALLTITE can even prolong the life of the building as it protects against premature deterioration of building materials.
- Design freedom - WALLTITE also provides the specifier with complete design freedom as the spray foam adapts to the shape of the substrate providing an ideal solution for insulating difficult areas such as profiled and curved roofs. The product is self-adhesive and stays fully bonded to the substrate, preventing any possible detachment, common with other types of insulation.
- Occupier comfort - for building occupiers, WALLTITE makes a significant contribution to a comfortable indoor climate by creating a draught free environment that prevents the infiltration of pollutants, toxins and allergens.
- Reliability - WALLTITE is only installed by trained professionals approved by BASF in the UK.

