



## Wood fibre technology for Passive House

### Technology Overview

Basic principles of Passive Houses is minimizing heat loss and maximizing heat gain. The Interconnections between components are critical towards meeting the Passive House Standard through careful planning and designing.

Ecological Building Systems have been at the forefront of developing a complete range of environmental building solutions to meet the needs of energy efficient, low carbon builders. The range includes; GUTEX wood fibreboards, pro clima for airtightness and wind tightness, Calsitherm Climate Board and, Thermo-Hemp insulation.

The GUTEX wood fibre-boards can be used for both warm roof or external wall insulation systems, by simply securing them through the counter batten into the rafter or stud with screws without compressing the insulation.

### HECO Solution

HECO-TOPIX Flange head self drilling screws forms a perfect fastening system for façades and roof insulation, with the screws being installed at 90° and 60° to the roof to accommodate the wind and snow loads.

The screws do not compromise the structure of the timber, or deviate from its original screw position, thus reducing the risk of splitting the timber or missing it completely.

All this is achieved without the time consuming job of pre-drilling. With these advantages the HECO screws shorten installation times and simplifies work onsite for the contractor/tradesman.



### Client Testimonial

Passive House building technology for the domestic building sector is becoming more important in the UK market.

This is what one of Ecological Building Systems customer thinks of our products:

*"When producing products of such a high standard it is important for us to be assured that all the components used during manufacture or for site assemble are of the highest standard. This is why, when requiring a suitable fixing we use the services of HECO through our suppliers Ecological Building Systems Ltd."* – Donal Mullins – Managing Director - Shoalwater Timber Frame Ltd

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