

Case Study...

Loch Lomond & The Trossachs National Park

Client

Loch Lomond & The Trossachs National Park.

Project Location

'Carrochan', Balloch, Scotland.

Product Details

Thermafleece – sheep's wool insulation slabs installed between roof rafters and timber frame walls.

Design and Installation Criteria

- Insulation to be sustainable and sympathetic with a timber frame construction.
- Ability to deliver high levels of thermal insulation and breathability.

Project Outline

New build to house the National Park offices utilising local, natural and sustainable products in an exemplar project.

Project Details

The new Loch Lomond & The Trossachs National Park Authority Headquarters, is a two-storey building with twin-pitched slate roofs on a 2,200 square metre building floor area and houses up to 122 staff. It embodies high standards in sustainability including a biomass primary heating system, extensive use of natural materials, and an indigenous Douglas Fir timber structure. At the pre-contract stage the building achieved an 'excellent' BREEM rating. The expected carbon footprint of the building is 80 tonnes as compared to 200 for a conventional building and 140 tonnes for best practice.

The HQ is the largest building with a 'green' timber structure in the UK. It uses the largest section of green timber in the UK with the biggest posts measuring 650mm x 600mm x 6.2m in length. The Douglas Fir frame comprises of 160 cubic metres of timber weighing approximately 80 tonnes. The frame itself sequesters nearly 150 tonnes of carbon dioxide. Other sustainability measures included biomass primary heating system which uses woodchip pellets sourced from the park and makes the heating carbon neutral.

Benefits

- Insulation capable of providing excellent thermal insulation performance in warm roof and timber frame walls.
- Performance stability of the insulation as moisture changes enables consistent performance even when humidity varies.

For further details of the products and support we offer visit our web site www.thermafleece.com or call us on **01768 486285**.

