

Sustainable Effective Eco-Friendly Insulation Is The Norm

Client: Avalon
Subject: PR Thermafleece

Wrapped up and warm in wool

Avalon Timber Frame Homes is thought to be the first timber frame building company in the country to offer Thermafleece insulation as a standard option for all build projects.

Thermafleece is a natural, sustainable and highly effective insulation material made from the wool of sheep including fell sheep, many breeds of which do not produce fleeces suitable for clothing manufacture. In addition to its outstanding thermal insulation performance it offers acoustic insulation properties that make it ideal for use as part of a noise control scheme.

Being hygroscopic, Thermafleece, can absorb and exude water vapour without detrimental effect to its thermal efficiency. It is ideal for use in timber-framed walls where it prevents the build-up of potentially damaging moisture by allowing water vapour to migrate through the structure. This ability to absorb and release water vapour can also help to keep buildings cool in summer and warm in winter.

"Our calculations suggest that when used with the Avalon standard 184mm wall configuration, with studs at 600mm centres, Thermafleece insulation gives the construction an insulation U-value of approximately 0.20 W/(m²K)," said Nick Whitehorn, Avalon's managing director. "This represents a significant energy saving when compared with the current Building Regulations requirement of 0.35 and the U-value of 0.30 proposed in the forthcoming Building Regs update"

Thermafleece also fits in with Avalon's environmental objectives. It has an ozone depletion potential of zero and offers a carbon saving during manufacture (when compared to mineral wool) of 219g per kilo. This represents a further saving of over 400kg of CO₂ for a typical Avalon 2500 sq ft home.

Although Avalon fully encloses the Thermafleece insulation in its renowned Skantec closed panel system, the material is also an easy and safe material for self-builders to install in roof spaces etc. It is not irritating to the skin, eyes or respiratory tract and causes no discomfort to site workers during installation. Should any fibres reach the living space they will not be hazardous to the health of occupants.

Further information from:

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