

Insects & Durability

Because sheep's wool is naturally susceptible to clothes moths, it must be protected to ensure long-term integrity. All Thermafleece wool is treated with sodium borate (borax) fire retardant and is not susceptible to clothes moths. There is no need for the addition of biocides.

The Borax Treatment Process

While these terms are often confused, they are not mutually exclusive. Designing for all three is key to maximizing energy efficiency and indoor air quality.

1. Complete Impregnation:

Every wool fibre is immersed in a borax solution during processing to ensure total coverage.

2. Natural Protection:

Because of the concentration of borax used to improve fire performance, Thermafleece is not susceptible to moth attack and does not require additional organic biocides

3. Scientifically Proven:

In UK laboratory assays (BS4797/ISO3998), the common clothes moth (*Tineola bisselliella*) was unable to damage treated Thermafleece wool even during extended exposure periods.

Durability and Longevity

Borax has been used in the construction industry for over 50 years.

1. Lifetime Protection:

Under normal service conditions, the borax remains within the wool fibres for the entire life of the insulation.

2. Stable in Dry Conditions:

Borax is water-soluble but does not "leach" or evaporate under normal circumstances.

3. Resistance to Moisture:

While transient condensation on the surface poses no risk, the treatment only becomes vulnerable if the insulation remains completely saturated for long periods.

Important Note:

As with all natural fibre products, this insulation is intended for internal environments. It should not be used in areas where permanent moisture build-up is expected.