

# Roofing

**The roof is a fundamental part of any building and as such needs to be well constructed to keep water out and heat in. Most traditional roofs were built with the natural ability to allow water vapour out without condensing and causing major problems. For example, thatch was (and still is) very efficient at keeping water out and heat in. But through the inappropriate use of modern (mostly impermeable) materials many buildings have lost the ability to breath.**

When it comes to the reconstruction of an ancient roof we take great care to conserve as many of the original timbers as possible, as a lot of vernacular roofs were constructed not of uniformed sized timber, but green boughs. If roof space allows, organic material such as sheep's wool, hemp or flax can be used for insulation whilst allowing water vapour to leave the building without causing condensation problems.

For owners worried about potential fire hazards there are modern thatch treatments and fire barriers, all of which can be incorporated into the structure. Tiles or slates will accommodate insulation equally as well and materials consistent with both modern building regulation and the desire to produce a building that is breathable and warm can be achieved through the use of the correct materials.



The structure of roofs in ancient buildings generally tends to be the best maintained part of a building but there are occasions when the water has penetrated and repairs are necessary.



This can be dramatic and involves carefully removing the

original structure for reincorporation, and adding new timbers.



Original features that were lost in previous modifications of the building such as dormer windows can be re-incorporated, resulting in a usable space



The end result is as good as the day it was built and ready to last another 400 years.

The same level of craftsmanship seen in ancient buildings adds a feeling of scale when used in new structures.

