



CASE STUDY – HIGH PERFORMANCE INSULATION FOR BARN CONVERSION

BUFCA SUPPLIER: Edu-Chem Ltd
BUFCA INSTALLER: Roofing Insulation Services Ltd

THE SITUATION

This 150 year old agricultural barn was being renovated and converted into living accommodation for the farmer and his family. As well as adhering to Building Regulations the client also wanted to maintain as many of the original features of the building as possible when renovating the property. As the building was to incorporate vaulted ceilings on the interior, and to make use of the original features within the roof and building structure, the insulation would need to be placed directly below the roof and between the rafters. Also, the solid stone walls of the barn would need to be insulated to a high standard.

SOLUTION

In order to provide a high performance solution for all aspects of the insulation, as well as providing a high degree of air leakage prevention to maximise indoor comfort, EduFoam was specified for the whole project.

The supplier carried out detailed thermal analyses and calculations for the client, including condensation risk analysis, which was provided to the client and their Building Control Officer.

The insulant was applied directly to the underside of the breathable roof membrane, as well as to the internal surface of the solid stone walls, to provide insulation values to not only meet, but exceed, Building Regulations. The polyurethane foam used for the project allowed the client to meet insulation levels for both roof and walls using less depth of material than other forms of insulation: this allowed them to maintain the original features within the roof.

