



CASE STUDY – Insulating a Domestic Roof

BUFCA SUPPLIER: Isothane Ltd

Figure 1: The roof before renovation & insulation

THE SITUATION

A private home owner required insulation for his roof which was unstable due to nail fatigue.

He also required the storage space in his loft to be upgraded.

SOLUTION

After the external roof defects were made good, Duratherm PUR insulation was sprayed between the rafters, directly onto the tiles at a thickness to achieve the required insulation value of 0.16 Wm²K. Conventional insulation was placed between the joists at ceiling level, then this was boarded out for storage purposes.



The polyurethane foam insulant created a fully insulated and stabilised roof to meet current Building Regulations, thus reducing the homeowner's energy bills and carbon footprint. The use of insulation at rafter level combined with conventional insulation at ceiling level creates a hybrid roof which is ideal for storage and for future loft extensions.