



## **CASE STUDY – Acoustic solution for housing within flight paths**

**BUFCA SUPPLIER:** Isothane Ltd

### **THE SITUATION**

Noise pollution for houses situated on flight paths. Aircraft wake vortices caused by aeroplane wings, especially in flight landing paths can damage and even remove roof slates and tiles.

### **SOLUTION**

The underside surface of the roof is cleaned and prepared appropriately, removing any loose material. Duratherm PUR insulation is then spray applied to the underside of the roof, to seal all gaps and glue the tiles in place.

The Duratherm sealed roof offers sound reduction qualities of 40% between frequencies of 100Hz and 5000Hz (to standard BS EN ISO 140-3). It also improves thermal insulation of the roof to Building Regulation standards, reducing energy costs and greenhouse gas emissions.

The system glues all the roof tiles permanently into position, offering a high level of protection against the effects of aircraft wave vortices, and resistance to the strongest gale force winds. Acoustic and thermal insulation improvements result from a single application.

