



## **CASE STUDY – Solution for University of Wolverhampton Roof**

**BUFCA SUPPLIER:** BASF Polyurethanes U.K. Ltd  
**BUFCA INSTALLER:** Total Insulation Ltd

### **THE SITUATION**

The thermal performance of the University of Wolverhampton's roof had to be significantly raised to achieve a specified U-value requirement of 0.16W/m<sup>2</sup>K.

### **SOLUTION**

Walltite® Polyurethane spray foam insulation system has been used in the refurbishment project at the University of Wolverhampton to significantly improve the U-values of the existing pitched roof. Total Insulations carried out the work using 145mm of Walltite CL 100 spray applied polyurethane foam insulation to achieve the specified U-value requirement.

Various issues had to be considered, particularly with reference to minimising the levels of condensation within the roof space. Walltite CL 100 spray applied polyurethane foam insulation was able to meet the architect's specification by exceeding the condensation risk requirements as the cold surface area is now sufficiently insulated.

Tweeddale, the architects for the refurbishment project, ideally required a solution that would avoid any external access to the roof. Andrew Hall, the architect leading the project explains: 'Access was a main factor for this project as the refurbishment work had to be carried out on a three story building. The Walltite CL 100 spray applied polyurethane foam insulation enabled the work to be carried out internally without the workers having to access the roof.'

Andrew continues: 'The Walltite polyurethane spray foam insulation system enabled us to save on the cost and time of the refurbishment process. A speedy and simple operation was a crucial factor for this project as the academic rooms needed to be completed in time for the return of staff and students following the summer break.'

The refurbishment project delivered academic staff offices, meeting rooms and research areas. The refurbishment has created a far more comfortable environment and greatly improved the energy efficiency of the space.