

# Case Study

St Marks Skill Centre, Tresham College, Daventry

Roofing system - Overlaying pf felt roof, replacement and acoustic panels



## Higham Roofing Ltd are one of the UK's leading specialist roof refurbishment contractors

### Problem

The St Marks Skill Centre at the Tresham College in Corby first approached us with serious problems of a failing roof and also the acoustics within their building. The structure consisted of a profiled metal deck roof over a large open workshops. The client's requirements were to resolve these problems. Higham Roofing undertook an extensive investigation and discovered that the original roof was metal profiled deck sheet with fibreboard and 3 layers of felt which had been unsuccessfully overlaid 2 years ago and was close to the end of its lifespan. The fibreboard content gave no insulation value and this also needed attention.



### Solution

To establish a specification that would suit the existing roof, we worked with Axter and bought the roof up to current 'U-value' requirements with 100mm of insulation which was mechanically fixed through the deck. Then it was overlaid with 2 layers of the Axter Hyranger product which came with a 20 year manufacturer's warranty.

Approximately half of the roof area was office space with suspended ceilings and the remainder of the workshops suffered from excessive noise and echoing due to the metal profile deck. This area was fitted a fully perforated liner panel under the purlins with the void above, being filled with foil faced rockwool insulation. This served two main purposes; firstly it provided additional insulation and secondly it reduced in sound attenuation. In addition, the roof also incorporated two continuous runs of single skin GRP rooflights which were replaced with man-safe triple skin rooflights. In areas, where light was not required kingspan composite panels were installed in lieu of the glazing.



### Benefits

The building now has a new lease of life. The roof is watertight, insulated and has a long term warranty. The operation of the building has dramatically changed because the acoustic lining panels have given function to areas of the building that was previously impractical. Lectures can be run again in a smooth and convenient way without any noise disturbance coming from the workshops. The St Marks Skill Centre has now become a suitable environment for teaching activities due to the increased light and more efficient thermal and acoustic performance.

We at Higham Roofing Limited are confident of our abilities and we strive to offer bespoke financially beneficial and long term roofing solutions for any requirements.



**Our mission:** "to ensure our clients are aware of technically correct solutions to achieve project specific value for money"

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