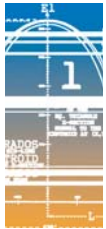


# Industrial case studies



## Whitecross Industrial Estate Lancaster

Roof area: 2,400m<sup>2</sup>



Before: Barrel Roof



Construction



Before: Pitched Roof



Construction



After: Barrel roof



After: Pitched Roof

### Service Icons



Roof Condition Surveys



Specifications



Project Management



Contractor Liaison



Eco Advice



Design

### Project Description

Two buildings on the estate were re-roofed but using different systems designed according to their uses, one being a laboratory and the other a factory with high internal humidity.

The laboratory had been suffering from water ingress and a system had to be designed to cause as little disruption to the internal processes whilst providing a long-term waterproofing solution. One of the causes of water ingress had been the shallow valley gutters. A new pitched roofing system was designed for

installation over the existing roof sheeting, including insulation, new roof lights and deeper gutters.

The factory roof had been experiencing water ingress in several areas and was subject to high internal humidity. An overlay system was designed to cover the existing roof sheeting with a rigid insulation board and a single-ply waterproofing membrane. The central area of the roof was re-clad with new profiled metal roof sheeting.



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# Industrial case studies



## Belmont Industrial Estate Durham Roof area: 18,000m<sup>2</sup>



Before



After



### Project Description

During our roof condition survey, the waterproofing system was found to be in poor condition. Budget costs were provided for various re-waterproofing options. Due to the building's main use as warehousing, a mechanically fixed overlay system was chosen as the most appropriate and cost-effective re-waterproofing solution.

After the chippings and vegetation had been removed, the new roofing membrane was fastened through the old system into the roof deck and only the laps were sealed. This isolates the new system from the old roofing, allowing for differential movement and the dispersion of any remaining moisture.

The existing profiled wall cladding was in poor condition and suffering from mechanical and vehicle damage. For aesthetic purposes, it was decided to re-clad the building in its entirety.

### Service Icons



Roof Condition Surveys



Specifications



Project Management



Design



Contractor Liaison

## Dove Marske-by-the-sea Roof area: 1,100m<sup>2</sup>



### Service Icons



Roof Condition Surveys



Specifications




Project Management



Design

### Project Description

The asbestos-cement roof sheeting had reached the end of its serviceable life. The old roof sheeting was therefore removed and replaced with 40mm thick composite roofing panels, including the provision of additional purlins.



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