



126 MILTON PARK - 01/06/07

## Calci-action® Case study

# Lime Technology Office at Milton Park Hemcrete® insulation walling for business park Head Office

**Client:**

Lime Technology Ltd.

**Architect:**

IJP Architect

**Specialist Engineer:**

Lister Beare

**Principal Contractor:**

IJP Construction

**Specialist Contractor:**

Laurent Goudet

**Location:**

Milton Park, Didcot,  
Oxfordshire, UK

**Project Value:**

£0.8 million

**Completion date:**

February 2007

**Key Stats:**

80 cubic metres  
(160 m<sup>2</sup>) of Tradical®  
Hemcrete® walling  
30 cubic metres  
(120 m<sup>2</sup>) of Tradical®  
Hemcrete® roof void  
insulation

The refurbishment of a typical business unit office and warehouse to form the Head Office for Lime Technology, partners with Lhoist UK, was an ideal opportunity to select Tradical® Hemcrete® as the material of choice for the walls of the steel framed, two-storey offices section of the unit.

The original thin section panel walling was removed and a secondary timber framing was installed to support the 500mm thick Tradical® Hemcrete® walling. The wall thickness was increased to a practical maximum in order to achieve the greatest benefit from the insulation properties and therefore reduce the energy consumption for the offices to a minimum. The calculated U value for the Hemcrete® walling is 0.18 W/m<sup>2</sup>.K. A permanent shutter was installed and the Hemcrete® was spray applied in a single layer application in just four days. Window and door openings had been formed with additional temporary boarding and these were stripped off within a week and glazing units installed.

The existing suspended ceiling was removed and in its' place a 250 mm thick layer of low density Tradical® Hemcrete® roof void insulation was sprayed into place above a joisted ceiling.

Thermal insulation performance of the walls and roof was evident immediately as the heatwave conditions experienced during construction demonstrated that the inner space of the office area was much cooler than being in the shade.

The environmental benefit of using Tradical® Hemcrete® in the wall and roof construction means that more than 11,800 kg of CO<sub>2</sub> was captured during the building process, as Hemcrete® captures carbon from the atmosphere and locks it up into the fabric of the building.

The Hemcrete® walling has a lime based render finish and the internal surfaces of the office are plastered with Tradical® Hemcoat® finish products. The whole of the refurbishment of the office and industrial warehouse is targeted to deliver a low carbon, low energy facility using a combination of the best available appropriate technologies.



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