

Kimberlin Library, DeMontfort University

With Eva Jiricna Architects

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Construction of an extension to the existing main library at DeMontfort University, Leicester.

DETAILS

LOCATION: LEICESTER
COST: £4.4M
DATE: 1993 - 1997
PROCUREMENT: TRADITIONAL

SERVICES

BUILDING SERVICES DESIGN
ENVIRONMENTAL DESIGN CONSULTING
ENERGY ANALYSIS

The library is the main facility on the Leicester campus for study and computer use. It is designed to provide cooling for a population density 2.5 times that of a normal office building.

While the university has commissioned a number of landmark low-energy buildings, this is the first ThermoDeck building. Air is passed through the cores of pre-cast concrete floor planks before entering the room to maximise the use of the buildings thermal mass. The building stays cool thanks to a combination of this mass and some adiabatic cooling. In cooler months, the building heats itself entirely by recycling heat from the building's users and computers.

1 INTERIORS SHOWING DENSITY OF OCCUPATION AND INTENSITY OF COMPUTER USAGE

Summer temperatures do not exceed 23°C or fluctuate by more than 3°C due to the thermal capacity of the storage slabs

2 EXTERNAL SHADING AND INSULATED GLASS ON THE SOUTH FAÇADE

AWARDS

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