



THE CENTRE FOR MEDICINE

THE LARGEST PASSIVHAUS BUILDING IN THE UNITED KINGDOM

A 0-25 **OUR RATING**
B 26-50
C 51-75

in association with **bream**
 ★★★★★ Excellent

EQUAL TO LIGHTBULB ENERGY



As humans we lose heat to our surroundings every day through chemical processes that happen in our bodies. This heat energy emitted is about the equivalent of a 100W lightbulb and can be recovered for use in this highly insulated building.

GREEN WALL AND ROOFS

This specially designed wall system has been installed to contain 17 different species of plants and is watered automatically so that it stays healthy all year round. It compensates for the green space lost during construction and helps to improve local air quality by absorbing CO₂, trapping dust and other pollutants

Along with outside planting, the building also has a green and brown roof including sedums and wildflowers to provide great habitats for local wildlife and help regulate indoor temperatures

SOLAR PANELS

The 150m² solar panels on the roof are expected to produce around 30,000 kWh of electrical energy per annum. This can power 7 average family homes

TRIPLE GLAZED WINDOWS

These windows have triple glazing to give greater thermal performance by capturing more heat than is lost from the building. Their large size and the installation of 2 glass atria maximises the use of natural daylight

SOCIAL SPACES

Designed with convenient work spaces, comfortable areas and a cafe, careful thought has been given to minimise waste by aiming to sell all drinks in reusable containers and composting coffee grounds

LECTURE THEATRES AND SEMINAR ROOMS

1200 plus capacity

OFFICES

125 rooms

BIKE RACKS

Stacked racks that can hold up to 60 bikes

COMPOST BINS

COMPUTER LABS

LOSSES

USEFUL ENERGY
85%

POWER

HEAT

DISTRICT HEATING NETWORK (DHN)

FUEL



A SMARTER BUILDING FOR COST SAVINGS AND COMFORT

This smart building is automatically managed to control lighting, temperature and CO₂ levels to minimise energy input, whilst still maintaining exceptional levels of user comfort



OTHER FEATURES

AIRTIGHTNESS

Every tiny hole where expensive heated or cooled air can escape has been sealed, making it an incredible 10 TIMES more airtight and efficient – so no draughty gaps!

LED LIGHTING

Able to produce higher levels of brightness using a significantly reduced amount of power both in and outside the building.

ROOF, WALLS AND FLOOR

The structure is made from a lot of concrete and is very well insulated; this retains heat, reduces temperature fluctuations and provides a comfortable working environment.

INTERIOR DESIGN

The pale colour of the carpet and walls maximises the feeling of space and contributes to the distribution of light.

GAHE ENERGY REDUCTION

The Ground to Air Heat Exchanger is a network of 1.6km piping buried underneath the building. Throughout the season, this unique system draws and regulates the temperature of fresh air. You're not going to suffocate and you might even breathe a little easier knowing it's reducing our energy bills.

