

Project name:

PDSA PetAid Hospital, Plymouth.

Location:

Plymouth International Business Park.

Description:

The PetAid Hospital at Plymouth, is the most recent of our sustainable designs for the PDSA. The scheme has been designed to meet the BREEAM Excellent standard and incorporates Solar pre-heat and PV panels, Rainwater recycling and Air Source Heat Pumps.

The high density of heat sources in PetAid centres (people, animals and equipment) mean that the buildings tend to overheat. Traditionally, large amounts of energy would be expended providing mechanical cooling to solve this problem but a sophisticated ventilation system will redistribute heat to other parts of the building that require it, and excess heat will be used in the hot water system. This significantly reduces both the carbon footprint and the running costs of the building.

The building is split in two with the public side facing the car park and the clinical side behind. The two sections of the building are joined through a central corridor with roof lights to bring natural day light into the heart of the building. There is a large double height waiting room on the East side of the building with a full height curtain wall creating a airy naturally light environment for the clients. The height of this space has been utilised to provide passive stack natural ventilation through automated ventilation grills at the head and base of the curtain wall. Suspended acoustic ceiling panels with integrated lighting have been used to reduce the reverberation

The first floor of the clinical block provides staff accommodation , including changing rooms, a staff room and meeting room. Both the staff room and meeting room are positioned on the North East corner of the building and provide panoramic views.

Client:

PDSA

Contract Sum:

£1.72 million

