



## Description

- ◆ £4m extension and refurbishment of a primary school on an existing site for Plymouth City Council with Interserve
- ◆ The project achieved a BREEAM Very Good rating
- ◆ The school features all new services including ground source heat pump heating, rainwater recovery, domestic services, sprinkler installation, heat recovery ventilation, low energy lighting, IT infrastructure, security and small power
- ◆ A full thermal model was carried out in compliance with BB101 and Building Regulation L2
- ◆ A full daylight model was prepared
- ◆ The GSHP units have electricity and heat meters to allow the performance coefficients to be displayed

## Involvement

- ◆ Detailed design of the mechanical & electrical engineering services, thermal modelling, daylight modelling and BREEAM compliance



## Benefits Delivered

- ◆ The school was developed to incorporate low energy design; the systems installed can be used as a teaching aid
- ◆ The school remained fully operational during the construction and refurbishment period
- ◆ Provision of temporary supplies were incorporated into the design to maintain water, heating and power supplies

Oakwood Primary School, Plymouth is a state school for 282 boys and girls aged from 3 to 11