



### Description

- ◆ £6m new build two form entry school with nursery for Plymouth City Council with contractor Interserve
- ◆ The school achieved a BREEAM very good rating
- ◆ The services included:
  - 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 has been carried out in compliance with BB101 and Building Regulation L2
- ◆ A full daylight model was prepared and used to prepare optimal lighting proposals

### 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 which are being used to demonstrate sustainability as a teaching aid
- ◆ The BMS system is linked to the school to allow download of energy logs for assessment
- ◆ A display is provided in reception to allow current energy usage to be displayed in real time

*Shakespeare Primary School opened its doors in September 2009 after merging Chaucer and West Park Primary Schools*