

Description

- ◆ SDS worked with Cornwall Council on this project to provide a nursery on the industrial estate for working parents in the Callington area
- ◆ A single storey building and enclosed garden, offers nursery care for up to 30 children
- ◆ The aspiration was a for delivery of a very low carbon building

Involvement

- ◆ Detailed design of the building mechanical and electrical engineering services
- ◆ Full production of detailed design information

Benefits Delivered

- ◆ The Nursery achieved BREEAM Excellent
- ◆ Thermal modelling carried out to demonstrate the building does not suffer from summertime overheating. The model also provided annual energy estimates
- ◆ Daylight modelling to achieve the daylight factors required by the Surestart design guide. The resulting design provided a light and airy nursery space
- ◆ Absence detection on internal lighting
- ◆ Air source heat pumps, offering low maintenance and reduced fuel requirements, to supply underfloor heating
- ◆ Two solar thermal hot water system panels on roof were provided to reduce carbon emissions against target
- ◆ Automatic BMS control systems were installed



Callington Nursery is a safe area within the industrial estate, providing pre-school education and nursery care for up to 30 children