



Project name Craigmillar Library
Market sector Commercial
Geographic sector Edinburgh

GDL products

Wall Units

Solarstore Unit

Ventilation Grilles

Project details

The £10 million development to build the new Library is a part of a wide masterplan by Edinburgh City Council to regenerate Craigmillar town centre. The regeneration of the wider area plans to also include a new high school and supermarket. The plan for the 48,000sqft library building included low carbon technology to provide an efficient heating, cooling and hot water service system. The Library building will also house the Council's new East Neighbourhood office for 350 staff with meeting facilities. GDL provided a bespoke natural ventilation system to suit the building's exact requirements. The Library was completed in 2012.

Project overview

Alongside clients Graham Construction and Edinburgh City Council, GDL designed, manufactured and installed a mixed use energy efficient natural ventilation system throughout the library and communal areas. The Wall Units installed provide natural cross flow ventilation throughout the Library area. In order to meet our clients' exact requirements our Wall Unit Dampers were designed to be manually operated using a lever as opposed to being operated wirelessly by our CO₂ and temperature sensors. This allowed the users to alter the airflow requirements within the room to suit their needs. The Solarstore Roof Turret was selected to provide an increased ventilation rate in the communal areas, the solar cell located on the Turret powers a DC battery that drives a dual action fan for increased extract or supply ventilation when required. This is particularly effective during the summer months when an increased ventilation rate is essential.



Benefits of using GDL Products on the project

- Bespoke consultation by our design team and manufacture at our Glossop factory.
- Lever operated dampers allowing more flexibility for the users.
- Mixed use of solar and wind power designed to meet the ventilation requirements yet remain energy efficient and sustainable.