



Project name Red Kite Academy
Market sector Education
Geographic sector Northampton

GDL products

Intelivent Wall Units
Intelivent Penthouse
Turrets
Control sensors
High Performance
Weather Louvres
Eggcrate Grilles
Low Leakage Dampers
Linear Bar Grilles

Project details

The construction of Red Kite Special Academy in Corby, Northamptonshire is well underway and set to open in September 2018. The school will be a specialist educational center for children aged 4-18 with severe or profound learning difficulties. The new build school will have 12 classrooms, a hydrotherapy pool and specialist teaching rooms, life skills suits and medical facilities.

Project overview

GDL designed and installed a natural ventilation solution for the building that is both energy efficient and costs effective. We installed 13 no Intelivent Wall Units and 13 no Intelivent Penthouse Turrets to naturally ventilate the building. The concept of the Intelivent system is to create a stack effect through the space controlling the incoming air temperature and CO² levels. This allows us to maintain a comfortable environment, with the correct air temperature and velocity with a controlled seasonal ventilation rate. In summer, ventilation rates will be controlled by temperature sensors, but lower winter ventilation rates will be controlled by CO₂ sensors. Additionally in winter the wall units incorporate hot water heating coils that temper the cold air on entry preventing draughts into the occupied spaces.

Benefits of using GDL Products on the project

- Our in-house design team can assist in making the correct system choices.
- Incorporating CO² and temperature sensors within a natural ventilation system will prevent wastage of energy in buildings where occupancy varies throughout the day.