

CASE STUDY: **Lusk Educate Together Community College, Co. Dublin
(Phase 1)**

New Build

Consultant Engineer: **Varming**

Principal Contractor: **ABM Construction**

Electrical Contractor: **Burke Electrical Installations (BEI)**

PROFILE

Lusk Educate Together Community College is a state of the art multi denominational, co educational secondary school catering for upwards of 350 students.

Building works on Phase One of Lusk Community College commenced in late 2012. The new two storey faculty accommodates 15 classrooms, GP hall, kitchen, staff area's as well as welfare and ancillary accommodation.

Phase Two is expected to be in place for the academic year 2015/2016

SCOPE OF WORKS

Guardian Fire & Security were contracted to provide the following under the scope of works.

1. An addressable L3 Fire Detection & Alarm System
2. A Disabled Refuge system

The scope also determined that the Fire Detection & Alarm System be interfaced to the gas slam shut, access control, intruder alarm and building management systems.

Due to our experience on similar projects, as well as our ability to support ABM and BEI in their efforts to manage the overall process, Guardian would take responsibility for the delivery of the three key stages of the above mentioned works i.e. First Fixing, Second Fixing and Commissioning.

SOLUTION

We established a four man team to deliver this project and proposed a holistic approach with a focus on real value and sustainability together with consideration for operational and maintenance functions.

1. A FireClass 64 Two loop adressable fire alarm control panel together with audible and visual devices was selected to protect the new school. FireClass, in this case not only met the needs of the school perfectly but with its use of the latest technolgies offered a high degree of programming flexibility and speed which is essential in the case of time sensitive projects such as this.

Guardian also proposed the use of FireRay 5000 motorised reflective optical beam smoke detectors in the GP hall which are reknowned for their reliability in detecting smoke in very large open interiors.

2. A single unit surface mount SigTEL Disabled Refuge system with 4 master controllers was selected for its ease of installation and expansion capabilities.

This was a pressure packed project that required a high degree of interaction between all stakeholders.

BENEFITS

The FireClass fire detection system allows for a single knock cause and effect whereby a single activation ensures all sounders and output devices throughout the school will activate, thus providing staff and students with the earliest level of warning possible and maximum opportunity to evacuate the building.

The new fire detection and alarm system also has the capability to facilitate an additional loop and is fully networkable so the foundations for the planned future expansion are already in place.