ABM CONTRACTORS

Project Fact Sheet

Belmayne Education Campus, Dublin 13.

BELMAYNE EDUCATION CAMPUS, DUBLIN 13.

PROJECT

Belmayne Educate Together National School and St. Francis of Assisi National School. **Value:** €10.7m. **Stage:** Completed.

Awarded Under the Rapid Build Schools Programme 2016 -2017
Lot 17 - Department of Education

FACTFILE

This project was let on a Design and Build basis as part of the Rapid Build Schools programme. ABM's role in the project was as Main Contractor and Project Supervisor for the Construction Stage (PSCS).

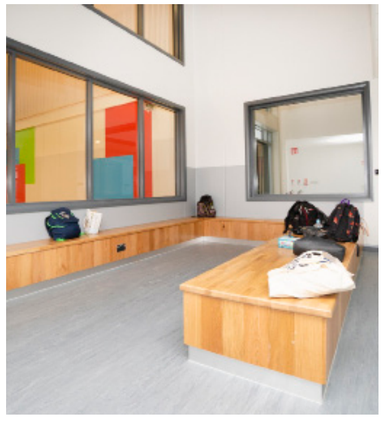
The responsibilities of ABM in delivering the project were:

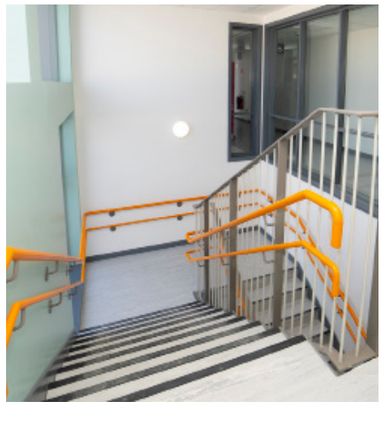
- Contractors Representitive
- Design and Construction team leader
- To manage the design team members in the development and co-ordination of rapid build construction techniques and to ensure that the relevant information was available to achieve both the rapid start on site date and to adhere to the fast track programme

SCOPE OF WORKS

The project consisted of the construction of 2 no. new primary schools, namely, Belmayne ETNS to the south of the site and St. Francis of Assisi National School to the west of the site.

- Belmayne ETNS consisted of a 3 storey school building with 16 classrooms, general purpose hall, support teaching spaces and ancillary accommodation, with a total floor area of c.2439 sqm.
- St Francis of Assisi NS consisted of a 3 storey school building with 16 classrooms, general purpose hall, support teaching spaces and ancillary accommodation, with a total floor area of c.2502 sqm.
- ABM D&B allowed for the construction of all access roads, parking, drop off, footpaths and landscaping as indicated on the Architects drawing. On completion, the access roads connected to the adjoining roads to facilitate road access through the schools site into the adjoining residential developments. ABM ensured that the new access roads connect seamlessly into the existing networks.





QUALITY OF CONSTRUCTION

Structural Steel frame with cold formed galvinised steel infill panels, insitu concrete ground floor, precast concrete 1st Floor, 100mm composite kingspan roof panels with rendered 100mm block and brickwork outer leaf.

Internal walls were constructed using a light gauge metal stud specifically designed to meet the wall deflection requirements as required under the Rapid Build Framework specification. High impact plasterboard to provide a severe robust rating. The addition of quilt insulation within the wall cavity achieves the acoustic requirements.

Risk to the programme is reduced through off-site manufacture and increased on site erection time of the inner leaf of the external wall against traditional methods such as loadbearing blockwork supporting precast floors. The use of a structural steel frame allows a reduction in time to achieve a watertight structure as the kingspan roof panels were fitted imediately once the 1st floor slabs were craned into position.

In house design team involved at all stages of the project to offer the most practical design solutions to the challenges of the rapid build programme.

SUSTAINABILITY

Light steel walls offer A and A+ ratings respectively in these areas in the BRE Green Guide (2007).

Recyclable - All steel sections are 100% recyclable and are made from high recycled content. This characteristic also reduces the waste produced by the overall project.
Lightweight - up to 50% reduction in overall weight of the structure relative to concrete frame reduces requirements for foundations.

Zero ODP and low GWP.

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