



Project Fact Sheet

POWERSTOWN EDUCATION CAMPUS, DUBLIN 15



POWERSTOWN EDUCATION CAMPUS



Project: POWERSTOWN EDUCATION CAMPUS
Value: €9.6M
Client: Department of Education
Stage: Completed

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 Representative
- 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 two schools each consisted of 16 classrooms. In addition the ETNS had 2 classbase SNU's. Both schools contained other resource and teaching rooms, administration and circulation space.

Site works consisted of 2 ball courts, junior play areas, disabled set down and parking, soft and hard landscaping, bin stores, bike sheds and car parking.

Upgrading of the existing school entrances, external fencing and new public footpaths to the front of the site. The success of this Rapid Build Schools project was built around the speed in which the structure was erected and then how quickly the internal finishes could logically commence without jeopardising quality.



QUALITY OF CONSTRUCTION

Structural Steel frame with cold formed galvanised 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.

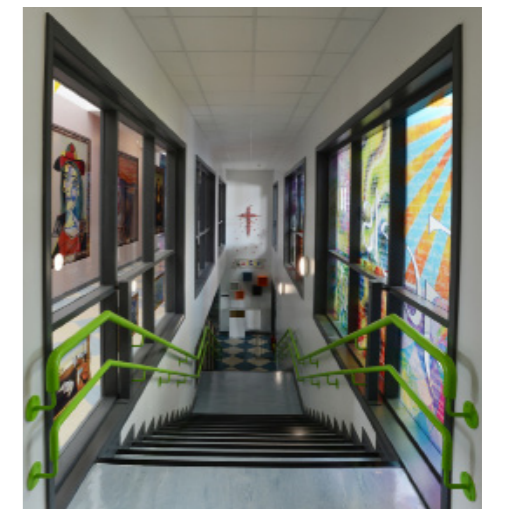
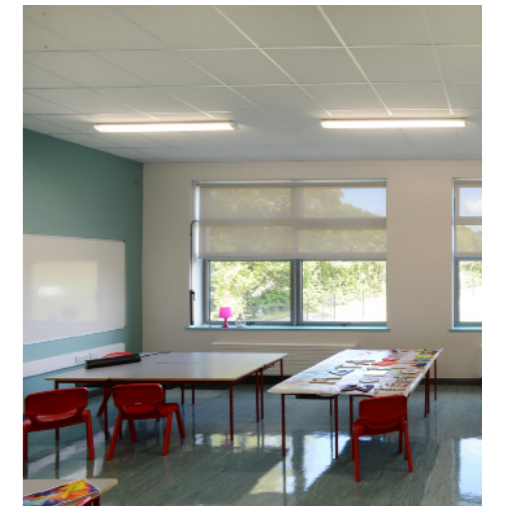
In house design team involved at all stages of the project to offer the most practical design solutions to the challenges of the rapid build programme.

SUSTAINABILITY

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

EFFICIENCY

Works were completed 8 weeks ahead of the prescribed schedule. Early completion of the project resulted from Phase 4 & 5 running at the same time. This was achieved by the Gaelscoil and the ETNS moving into the New ETNS building handed over as part of Phase 1 works. This meant demolition of the ETNS followed the demolition of the Gaelscoil in October 2016.



POWERSTOWN EDUCATION CAMPUS



ABM Contractors
Unit 2b, Feltrim Business Park,
Drynam Road, Swords, Co. Dublin.

Tel: +353 (0)1 890 0919
Email: info@abmcontractors.com



www.abmcontractors.com