



Project Fact Sheet

CARRIGALINE POST PRIMARY (ERST), Co CORK



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Project: CARRIGALINE POST PRIMARY (ERST), Co CORK
Value: €11.7M
Client: Department of Education and Skills
Stage: Completed

FACTFILE

This project was let on a Design and Build basis as part of the 5th 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 project consisted of the construction of a new 600 PUPIL POST PRIMARY SCHOOL building with P.E Hall, support teaching spaces and ancillary accommodation, with a total floor area of 8660sq. m,

The site works to the school consisted of 160 no. cycle storage spaces, bin store, ball courts, secure play area, 1 No. 50m sq. external material storage building for wood and metal work studies with associated covered work area, landscaping, 1 No. 18m sq. ESB Substation and boundary treatment and all other associated site development works. The works to the remainder of the site consisted of the provision of 72 No. car spaces, drop-off and pick-up facilities and new access road all on a site C. 3.0 Hectares located at Kilnagleary, Carrigaline, Co. Cork



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. The use of a structural steel frame allows a reduction in time to achieve a watertight structure as the kingspan roof panels were fitted immediately 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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