

BUILDING FOR THE FUTURE

Project Fact Sheet

Swords Community College,
Swords, Co. Dublin

Department of Education





PROJECT: Lot 11.2 - Swords Community College Swords, Co. Dublin

CLIENT: Department of Education
Awarded under the Design and Build Schools Programme 2018 - 2019

VALUE: €19.5 million

DESCRIPTION:

The project consisted of the design and build of a 1,000 pupil post-primary school building with sports hall, ancillary student and staff facilities, 2 classroom Special Needs Unit and ancillary spaces with a total floor area of c. 11,397m². The building is two storey and three storey. The development is located at lands at Mooretown, Off Rathbeale Rd, Swords, Co. Dublin.

The site works to the school grounds will consist of the provision of cycle storage spaces, bin store, external store, ball courts, gardens, play areas, landscaping and boundary treatment, car parks, set down areas and all other associated site development works.

ABM's role in the project was as Main Contractor and Project Supervisor for the Construction Stage (PSCS).



SCOPE OF WORKS:

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Precast concrete construction of 3 storey school on strip foundations. Structural screed on precast hollowcore slabs. Standing seam composite roof on structural steel frame. The building frame was constructed using precast concrete wall panels and hollowcore concrete floor slabs topped with concrete screed. Some structural steel was incorporated into the concrete frame design and installation to facilitate cantilevered slab areas, balconies and the roof terrace construction where it was necessary to achieve level thresholds at doors.

Off site techniques used for the school building included panelised metal frame external wall panels insulated off site and delivered to site in addition to precast hollow core slabs, so as to fit within the hot rolled steel frame. The building frame was constructed using precast concrete wall panels and hollowcore concrete floor slabs topped with concrete screed. Some structural steel was incorporated into the concrete frame design and installation to facilitate cantilevered slab areas, balconies and the roof terrace construction where it was necessary to achieve level thresholds at doors.

Risk to the programme is reduced through off-site manufacture. Increased on-site installation speed of the internal walls and floors in conjunction with one and other results in the Mechanical and Electrical services works commencing earlier than when using the steel frame construction. The extent of plastering required is reduced to small areas of studwork walls. Consequently, mist coat decorations can commence as soon as areas are weathered. Using a complete precast structure has now become a popular choice for many construction projects throughout Ireland. Precast concrete combines the benefits of rapid construction and high quality materials with the advantages of factory controlled production lines and quality assurance.

Temporary accommodation was established initially adjacent to new schools site. Appropriate segregation of site and school was necessary.

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