



Harbourne Primary School



Birmingham City Council required modern methods of construction to be used for the development of a standalone extension for the Harborne Primary School on a new site approximately one mile away from the main school building. Speed of construction was essential to provide education facilities for the rapidly expanding local population.

From the early planning and design stages, Innovare's Structurally Insulated Panel System was specified as the core structural solution.

Offsite construction is less invasive and disruptive to the local community through fewer deliveries to site, meaning that the busy road outside the school could remain free flowing.

Rapid completion of the superstructure also took pressure off the overall build programme and allowed the pupils and staff to gain access to this much needed facility as quickly as possible.

With only 40% of traditionally built projects being delivered on time, the cost and programme certainty achieved by our offsite manufactured Structurally Insulated Panel System meant that Harborne Primary School was delivered ahead of programme and on-budget, achieving:

- **Speed of Construction** – Reducing time across each phase of the project with short design lead in, reduction in programme time with a quickly established watertight envelope, scaffold-free assembly, and a reduction in snagging.
- **Affordability** – Significant savings were achieved with a reduction in programme time through greater speed of installation over traditional construction, as well as M&E costs.
- **Performance** – With U-values as low as 0.09 W/m²K, the inherent excellent insulating properties and superior airtightness will reduce the energy consumption and running costs of the building. Improved thermal bridging will also reduce heat loss.
- **Precision** – Manufacturing standard tolerances ensured a precise fit and faster installation.
- **Sustainability** – Ecological resourcing of materials and an intelligent inventory system, reduced carbon emissions and whole-life maintenance costs, which all contributed to this sustainable method of construction.

Innovare's Structurally Insulated Panel System allowed the architectural vision to be accurately reproduced for Harborne Primary School, without having to compromise on the building form. Offsite and digital technology were used to maximum effect to deliver a high performance, sustainable and energy efficient building.

Project	Harbourne Primary School
Client	Birmingham Local Council
Value	£526k
Location	Harbourne Birmingham



Mandy Hughes, Head Teacher said:

"The partnership we developed has been very much appreciated, as was our involvement in the project. We have enjoyed your professionalism and the community liaison with the design team."