

## The Ysgol Dyffryn Aeron primary school

Education Sector- Case Study



Wynne Construction - Photo

The Ysgol Dyffryn Aeron primary school project, designed and built by Wynne Construction, features the Innovaré Offsite Low Carbon Fire Safe i-FAST panelised system, which played a crucial role in its exceptional performance. The building was awarded an Outstanding BREEAM rating of 93.69%, making it the highest-scoring education building in the UK. Designed to Ceredigion County Council's individual aesthetic and specification requirements the Innovaré full superstructural solution removes the need for a primary steel or concrete frame.

Innovaré's Low Risk Rapid Build i-FAST panel integrates structural strength, fire safety and exceptional thermal and acoustic performance into one standalone panelised system. It exceeds 60 minutes of fire resistance without relying on additional linings or claddings. Each panel is faced with A1 non-combustible boards and factory-filled with A1-rated stone wool insulation. The system's staggered stud layout minimises thermal bridging and sound transmission while offering enhanced protection during fire scenarios. Engineered to form external and internal walls and roof cassettes, the prefabricated i-FAST panels provide structural integrity, loadbearing strength, and enhanced fire, thermal, and acoustic performance.

The £16.3m project was funded through the Welsh Government's Sustainable Communities for Learning Programme (£10.1m), the Welsh Government's Early Years and Childcare Capital Programme (£1.6m), and a £4.6m contribution from Ceredigion County Council. This significant investment ensures a modern, sustainable learning environment that reflects Wales's commitment to low-carbon construction and community-focused education.

The success of the project and the performance of the i-FAST system have led to the project being shortlisted at the 2025 Structural Timber Awards within the Education project of the year category.

Project	Ysgol Dyffryn Aeron
Client	Ceredigion County Council
Main Contractor	Wynne Construction
Architect	TACP Architects
Location	Felinfach
Completion Date	December 2024
Innovaré duration onsite	14 Weeks
Total GIFA m <sup>2</sup>	2381
Installer	Almac & ATE
What did Innovaré build	New build, 1 storey, truss roof and pitched roofs
Innovaré Product	259mm i-FAST
Innovaré Solution	Full Structure