



# West Coventry Academy



**West Coventry Academy (WCA), which was procured through the DfE’s Modern Methods of Construction Framework (MMC1), is the result of a three-year research journey by Innovaré Offsite and a major investment by our partner Bowmer + Kirkland (B+K). It is the first of five pilot ‘net zero carbon in operation’ schools for the Department for Education (DfE) and used the panelised Psi-FAST solution to deliver a hugely energy efficient, offsite manufactured design.**

Delivering a PMV of 70%, Psi-FAST improves efficiencies by taking more construction processes offsite into our quality-controlled manufacturing environment. The factory fitting of vapour control, windows, and cladding enhanced the quality and integrity of important detailing whilst also accelerating the construction programme.

Innovaré’s Psi-FAST panels included factory-installed windows, insulation, and brick-slip cladding with a Passive Purple Coating to substantially improve airtightness. The hybrid solution integrates Psi-FAST wall panels with roof cassettes and pre-cast concrete floors and stairs. Scope of works also included offsite manufactured volumetric plant rooms for the project which Innovaré designed and delivered in collaboration with our M+E specialist, DBS. Increasing Pre-Manufactured Value to 70%- a key driver for the DfE, the Innovaré building solution achieves thermal and airtightness levels required for net zero carbon in operation.



This project exemplifies the development Innovaré has undertaken to advance the application of the Innovaré offsite manufactured Psi-FAST system. The result is a net zero carbon in operation building with high-performing acoustic attenuation combined with maximising natural light: ultimately providing an optimum learning experience for staff and students.

Project	West Coventry Academy
Client	Department for Education
Contractor	Bowmer & Kirkland
Architect	Strides Treglown Architects
Value	£38.4m
Location	Coventry
Innovaré Completion Date	Autumn 2023
Innovaré duration onsite	30 Weeks
GIFA m <sup>2</sup>	12,099m <sup>2</sup>
Framework	DfE’s Modern Methods of Construction Framework (MMC1)
Innovaré System/ Solution	Psi-FAST panels included factory-installed windows, insulation, and brick-slip cladding with a Passive Purple Coating to substantially improve airtightness.