

# Flexibility of i-SIP panelised systems key to unlocking solution for rapid build



<b>PROJECT</b>	Connor Downs & St Uny Schools
<b>CLIENT</b>	Cornwall County Council
<b>CONTRACTOR</b>	Kier Construction
<b>ARCHITECT</b>	NPS Exeter
<b>VALUE</b>	£1000k combined
<b>LOCATION</b>	Cornwall
<b>GIFA</b>	449m <sup>2</sup> combined

## Logistical constraints required innovation for school extensions

Cornwall County Council had two school projects that posed significant logistical constraints for a traditional build, due to limited access and very rapid turnaround requirements. To complete the criteria, they also wanted minimal disruption with the schools being in operation at the time of the build. Working alongside Kier Construction Innovaré were able to deliver a solution that met the tight timeframes for both projects without compromising quality and minimising disruption. The greater flexibility of construction and delivery methods with the offsite, factory-based production process was the key to finding the innovative solutions that made both projects successful.

### *St Uny*

Made up of two phases:

- Phase 1 saw the installation of a new classroom block. This required a very rapid install time of 4 days as it had to be completed during half term, as access to the school and car park had to be blocked.
- Phase 2 featured the installation of the main assembly hall, which had to be completed

during term time, where a strict timescale of 2.5 days was imposed to ensure minimal disruption to staff and students.

### *Connor Downs*

- This project had a strict timescale of 4 days for installation of the extension to the new teaching block as the build had to take place during term time.



## Project re-engineering delivers efficient and rapid solution

The panelised systems for both schools were re-engineered from steel frame with i-SIP infill to full i-SIP structures to accommodate the time constraints, as this reduced time to fit out without reducing the thermal efficiency and airtightness performance of the finished buildings. Speed was not the only factor that required innovative thinking and a more flexible approach to minimise time on site. Access constraints at each school meant the deliveries had to be carefully planned, with a reduced supply chain and smaller vehicles on site. The St Uny

install required a new haul road to be built to manage the hall extension with minimum disruption to term time operation of the school. In contrast, delivering the panels 'flat pack' was the best solution for Connor Downs to ensure the install as un-obtrusive as possible with the school fully operational.

## New facilities delivered on time with minimal disruption

Both projects demonstrated the benefits of an innovative approach by Kier, to solving the project constraints by working closely with Innovaré and taking full advantage of the ability to be flexible, derived from having complete control of the process from start to finish. Design, manufacture, delivery and installation all played a part in finding the right solution that would not have been possible if any one part had not been in place.

