

# £104,000 capital & 7% programme savings



<b>PROJECT</b>	Castle Hill School
<b>CLIENT</b>	Hampshire County Council
<b>CONTRACTOR</b>	Osborne
<b>ARCHITECT</b>	CFP Architects
<b>VALUE</b>	£ 3.1m
<b>LOCATION</b>	Basingstoke
<b>GIFA</b>	1,191m <sup>2</sup>

*“Minimal panel joints by virtue of the large format panels combined with the exacting panel tolerances of ±2mm make the i-SIP System a natural choice when looking to meet air permeability levels as low as 0.6m<sup>3</sup>/m<sup>2</sup>/hr at 50 pascals, meaning greater predictability of achieving air tightness.”*

Source: IESE Evaluation Report 2015

## 6 school extensions needed without disruption

Castle Hill is one of four Hampshire school rebuilds in the iESE framework awarded to Innovaré. In addition to providing greater internal comfort and minimal environmental impact there were challenging architectural specifications and desired enhancements against a backdrop of needing to generate cost and programme savings.

## Flexible system to provide bespoke solution

An option appraisal process conducted by the council identified that offsite construction using the i-SIP System would save significant time and cost, without compromising the design. Gains in building performance and quality were also identified.

Several innovative approaches were used to enhance the finished buildings. A tied portal frame wrapped with i-SIP panels was designed to create the Main Hall's vaulted ceiling, achieving the desired architectural effect with minimum structure. Library areas used an exposed custom glulam frame in combination

with i-SIP panels. Glulam effect sarking planks on the flat roof areas provided an attractive finish for the soffits.

Excellent daylighting levels were achieved in first floor classrooms using pitched pre-insulated roof cassettes and vaulted ceilings.

## High performance buildings installed over the holiday period

The success of the project led Hampshire County Council to build a close working relationship with Innovaré to deliver their annual Education Basic Needs, Primary School Programme. The construction period across this programme was reduced on average four weeks using the i-SIP System. According to iESE's Design Evaluation Report, the i-SIP System provided 7% programme saving and cost benefits of £104,000 compared to the programme and cost plan for traditional steel frame and brick and block.

The i-SIP System provides added value through superior energy efficiency (0.16 W/m<sup>2</sup> ·k U-Value), minimising cold bridging, improved air tightness, fewer post construction defects and lower environmental impact.

