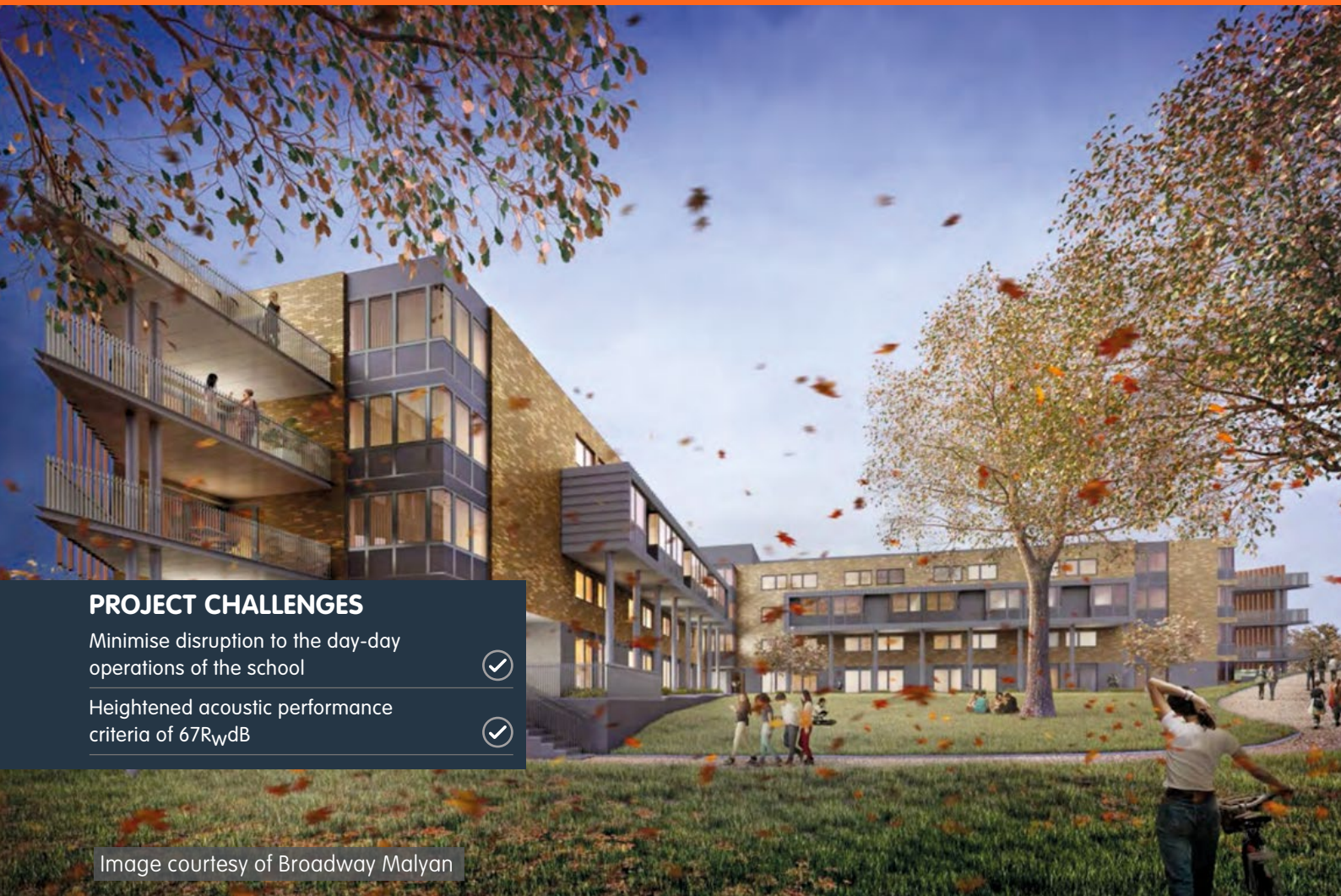


A Modular Case Study

ACS INTERNATIONAL SCHOOL

COBHAM, SURREY, UK



PROJECT CHALLENGES

Minimise disruption to the day-day operations of the school



Heightened acoustic performance criteria of 67R_wdB



Image courtesy of Broadway Malyan

SECTOR: **Student accommodation**

PROJECT VALUE: **£13m**

CLIENT: **ACS International School**

ARCHITECT: **Broadway Malyan**

OFFSITE PARTNER: **Caledonian Modular**

FINISHED: **April 2017**



BACKGROUND

ACS Cobham International School is a premium school residency provider. In 2016, it identified a need for an additional Boarding House to expand by a further 113 en-suite bedrooms for its students.

Caledonian Modular was appointed to deliver a new four-storey student accommodation block, using a mix of traditional construction and modular methods. The modular element of the build was chosen to reduce the levels of disruption to the day-to-day operations of the school.

Siniat worked alongside Caledonian to provide the drylining system for the blocks' modular units.

“A modular build approach”

CHALLENGE

Whilst the building needed to meet Part E with Rooms for Residential Purposes – which requires 43dB $D_{nT,w}+C_{tr}$ on site – the acoustician on the project aimed for a much higher target.

The separating wall had to achieve 67 $R_{w,dB}$ when two modules were placed back-to-back. This provides additional acoustic comfort for its students and reflects the luxury specification of the accommodation.

SOLUTION

67 $R_{w,dB}$ was achieved by combining a facing inner layer of 12.5mm GTEC Fire Board with facing outer layer of 12.5mm Megadeco board.



“Siniat Megadeco has been our ‘one size fits all’ board solution for over 10 years. Offering a range of performance and process benefits thanks to its high impact resistance, fire-rated and acoustic properties, and pre-sealed face it speeds up our factory production.”

Chris Bulmer, Technical Manager,
Caledonian Modular

PRODUCTS IN THIS SYSTEM:



**Megadeco
Fire Board**



Steel Frame

