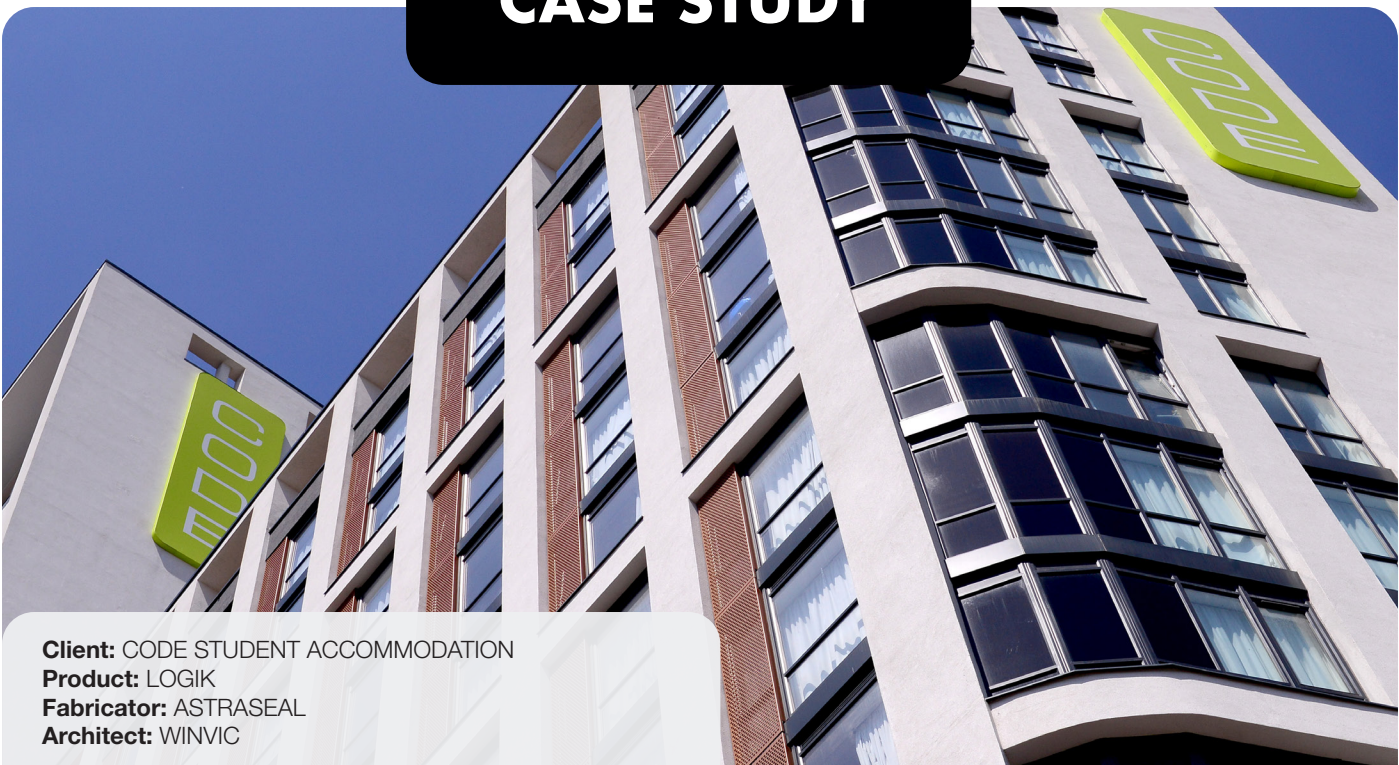


CASE STUDY



Client: CODE STUDENT ACCOMMODATION
Product: LOGIK
Fabricator: ASTRASEAL
Architect: WINVIC

Eurocell Passes the Test at Flagship Student Residence

- **Versatile design** allowed trickle ventilation on the tilt or full purge when opened
- **Bespoke pressed and perforated panel** for the outer frame reduced airflow by 50%
- **Costs cut by 57%** against the original aluminium spec as well as being more energy efficient
- **Structural challenges met** by the design of a bespoke system that incorporated reinforcements

Winvic made an educated choice when they specified Eurocell windows and panels for a landmark Coventry development.

Home to 1,192 students, CODE Students Coventry is a flagship 23-storey accommodation block which, topping off at 76 metres, is the highest in the city.

Such a lofty achievement called for materials of equally high standing. Not only to shrug off the elements and maintain thermal efficiency. But also to cope with the rigours of student life without losing its looks.

Winvic understood that only a bespoke Logik Tilt and Turn window system, designed in close collaboration with fabricator and installer Astraseal, would pass this test.

First off, the 2000 windows delivered an engaging lesson in physics. Their versatile design allows trickle ventilation when opened on the tilt. Or creates full purge when opened along the vertical frame axis.

To meet the safety and security requirements of a multiple-occupancy building, a bespoke pressed and perforated panel was needed for the outer frame.

“Eurocell were great to work with. The communication was fantastic, and their technical teams were knowledgeable and easy to deal with. It all went very well.”

Mark McMullan
Managing Director
at Astraseal



eurocell

CASE STUDY

Forming a strong, effective guard, this not only prevents falls from open windows, but is cleverly designed to reduce airflow by 50%. Which means even the highest windows can be left fully open to allow the right amount of fresh air in, but nothing out.

To be doubly safe, the panels are barrier loaded to prevent forcing from the inside.

The frames then delivered a lesson in economics, cutting costs by 57% against the original aluminium spec. Logik is far more energy efficient than aluminium too, which in turn means lower energy costs for the whole building.

There are three separate window frames to each apartment, joined together by specially engineered couplings to give the appearance of one continuous unit.

Taking into account the weight of the perforated safety screens and the increased wind loading at height, it was decided the frames needed to be reinforced - a challenge the Eurocell team was happy to accept, working closely with structural engineers and with fabricator and installer Astraseal to design a bespoke system that incorporates steel-reinforced bars inside the profile.

Both the couplings and the reinforcement were designed to different performance specs, depending on where they were to be used. The higher the location, the stronger the engineering. The glass was also fitted accordingly, keeping costs down by varying noise reduction performance from 30db to 42db in different areas.

