

## Case Study | Science, Engineering & Environment Building

### Natural and Smoke Ventilation at University of Salford's state-of-the-art SEE Building



#### Project

The University of Salford's new Science, Engineering and Environment Building features testing and lab facilities, lecture theatres, study areas, offices, and a double-height workshop / testing facility. Large windows and an impressive atrium flood the spaces with natural light.

#### Modbus Enabled Window Drives

D+H UK supplied, installed and commissioned 411 chain drives and 143 lock drives. All drives are controlled via the Building Management System, utilising the inbuilt Modbus technology.

Modbus provides bi-directional communication on a single cable, significantly reducing wiring effort/cost.

#### Window Types

Side-hung and bottom-hung windows provide controlled day-to-day ventilation, bringing fresh clean air into the whole building.

29 of the windows are dual-purpose EN 12101-2 certified NSHEVs (Natural Smoke & Heat Exhaust Ventilators).

Lock drives are present within 143 windows located throughout the building, providing extra security through automated multi-point window locking.

A seamless window design has been achieved by matching RAL coloured drives and brackets with the window profiles.

#### Location:

University of Salford

#### Products:

VCD 203 & 204 Chain Drives  
 CDC-0252-1-ACB Chain Drives  
 FRA 11-BSY+ Lock Drives  
 CPS-M Control Panels

#### Smoke Control

Two D+H multi-zone EN 12101-10 certified control panels operate all of the windows and ensure the NSHEVs operate in the event of a fire.

NSHEVs in the affected area will automatically open, drawing smoke and gasses out.

This system will keep escape and emergency routes clear, and provide smoke-free space for fire-fighting.

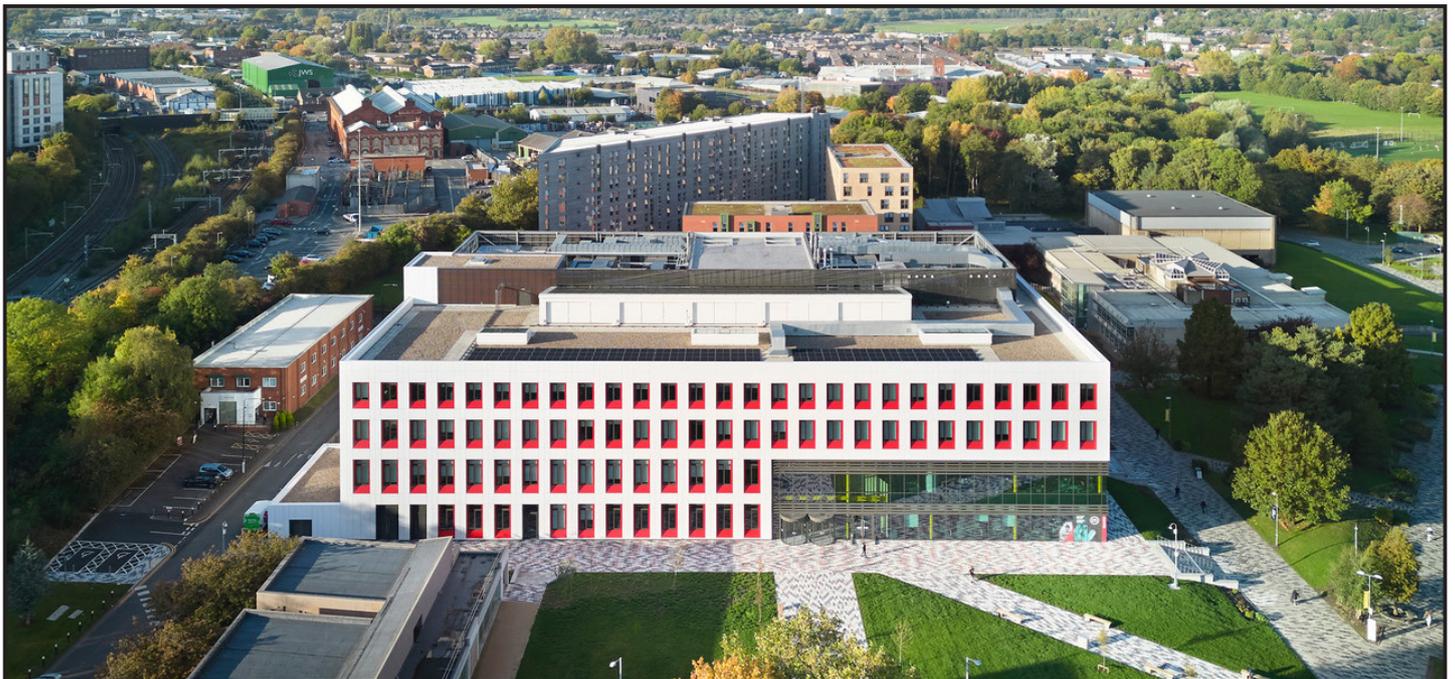
#### Natural Ventilation Operation

The movement of fresh, clean air vastly improves the quality of air throughout this spectacular educational facility.

These smart multi-purpose systems support the health, wellbeing and concentration of students and staff alike.

#### Contact

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