

Case Study | Greenbank Student Village

Natural smoke ventilation systems for student accommodation blocks



Project

Greenbank Student Village was a development scheme by the University of Liverpool. The new build accommodation has created 1,370 bedrooms for University students.

The redevelopment saw six buildings replaced by three new student accommodation blocks; Derby Hall, Rathbone Hall and Gladstone Hall.

Phase One

Dyer were initially asked to supply and install chain drives as part of a natural ventilation system. This was successfully achieved by the use of CDC 200/350 chain drives, operated by 3-position natural ventilation switches.

The drives operate quietly and are barely visible. Dyer also installed 12 sets of KA drives ranging from 600-1300mm stroke lengths.

Phase Two

Dyer supplied 21 EN12101-2 NSHEVs to the window contractor to fit into the curtain walling, allowing Dyer to issue certification. The aluminium bottom-hung open out windows are operated by KA 54/1000 BSY+ sets, one pair per vent. This provides a free area of 1.5m² as regulation Approved Document B.

Certification

To allow Dyer to issue certification, the drives and window profile have been tested as a complete unit. Dyer are certified with many window profile systems, on this occasion Reynaers profiles were the preferred option.

Location:
Liverpool

Products:
EN12101-2 NSHEVs
CDC 200/350 chain drives
KA 54 chain drives

All certified AOVs supplied by Dyer are issued with a Deceleration of Performance (DoP) sticker. This enables traceability and EN certification/conformity.

