



Union Square Shopping Centre

Client

Union Square Developments

Project

Phase 2 of major retail building

Location

Aberdeen

"It's an honour to be involved in such a prestigious retail project as this. Union Square hosts thousands of shoppers every week and the client can have peace of mind that their fire safety is assured."

Overview

Airvent design and install for large mall

At 65,000m², Union Square shopping centre in Aberdeen is the second largest mall in Scotland with over 60 stores, 12 restaurants and a 2300-seater cinema. The developer required a smoke safety system which would protect customers, retail staff and the property and assets themselves.

The project had to take into account the complex geometry produced by the many and varied retail units, and the sizable atrium which forms a key aesthetic of the building's design, without impairing the visual style of the building.

Operations

The developer of this £250m project realised the importance of appointing the best smoke control specialist it could to the project; hence Airvent was chosen to install a major scheme of powered ventilation.

The project involved adding aesthetically-appealing ventilation to the glazed atrium and a series of powered ventilation fans and associated ductwork to the rest of the two storey building. In all 40 extraction systems were installed to ensure that in the event of a fire, smoke will be allowed to rise up and be actively removed before having chance to lower to shopper head height. Airvent integrated the system with other building services and a controls unit which monitors the environmental conditions throughout the mall, activating smoke control measures as and when they're required.

Airvent's systems take account of issues such as high ceilings, open plan retail units, mezzanine levels and the fact that some shoppers are less mobile than others. The smoke controls ensure clear escape routes for as long as possible, and aid fire fighting efforts by increasing visibility on the ground.