STOCKLAND HQ
SYDNEY, AUSTRALIA

smoke containment screens • smoke curtains • fire curtains • horizontal fire curtains • smoke & heat release vents • natural ventilation • fire resistant glazing • horizontal glazing • smoke doors • fire doors • intumescent paint & other specialty systems
Problem
Upgrade of existing building required atrium and interconnecting stairs to extend through 8 levels from Levels 22–29. Therefore, fire separation between floors non-compliant with BCA and the atrium design had existing floors above preventing the use of traditional smoke extraction systems. Alternative solution required.

Solution
Smoke Control provided design assistance, supply, installation and commissioning of the FIRST automatic Fibershield H horizontal fire curtains in the southern hemisphere. Vertical Fibershield fire curtains were installed to protect the interconnecting stairs.

Design Considerations
The overall design concept was to prove that an existing building can be improved to provide a 5 star energy rating. The atrium design was integral to this rating allowing for natural light and air movement between levels. Therefore the 7x vertical and 4x horizontal Fibershield fire curtains needed to;

• Be reliable, compact in design, invisible in non-fire mode
• Be accessible for maintenance
• Have battery back up to reduce nuisance deploys over stairs
• Have audible alarm and flashing lights
• Be fire tested to AS1530.4 for up to 2 hours.
• Be able to carry the weight of fire fighting water and protect fire fighters below

Builder
St Hilliers

Fire Safety Engineer
ArupFire

Architect
Bligh Voller Nield Architect

Certifier
Phillip Chun & Associates

Note: Each project is unique and usually requires the involvement of a Fire Safety Engineer. Please contact us to discuss the suitability of this solution for your project.