IAG PARRAMATTA
SYDNEY, NSW

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**
The building design included 8 stories of interconnecting stairs.

**Solution**
The solution provided was to install 18 x Fibershield Fire Curtains to levels 2 through to 7.

**Design Considerations**
The system had to resist pressure differentials of 65 Pa. Fibershield Fire Curtains also overcome a number of aesthetic restrictions that are common of other types of barriers. The system is virtually invisible in non fire mode and can be colour coded to suit the design of the building.

**Client**
Built

**Fire Engineer**
NDY

*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.*
HONEYSUCKLE
NEWCASTLE, NSW

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W: www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
**Problem**

Interconnecting stairs in a corporate head office.

**Solution**

Install Fibershield Fire Curtains to provide a 2 hour fire rating.

**Design Considerations**

The system had to be unobtrusive and concealed in non-fire mode. Interconnecting stairs create a significant fire risk and therefore highly reliable systems can only be used.

**Client**

John Holland

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SANTOS PLACE
BRISBANE, QLD

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W: www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
Problem
An 8 Storey non-essential stair within a high rise in Brisbane city CBD which was the FIRST in Queensland.

Solution
Smoke Control provided design assistance, supply, installation and commissioning of our automatic Fibershield fire curtains to protect the FIRST 8 storey opening in Queensland. Only Smoke Control can offer a full life cycle service to provide sufficient confidence in fire and smoke curtain systems with the relevant Authorities.

Design Considerations
The Queensland Fire and Rescue Service are known for their conservative approach to life safety—and rightly so. The design team had to address several key issues to ensure the project would be approved. These included

- Valid Evidence of Suitability clearly identifying maximum sizes and the fire resistance level for the curtain system in accordance with AS1530.4 and AS1905.2
- Documented evidence of reliability
- The system must be a continuous single span system with NO overlaps to provide reliable compartmentation
- Power failsafe system, deploying to the fully closed position in all failure modes.
- Operate effectively in conjunction with other life safety systems
- The supplier must have a proven track record of successful installations on a wide range of projects and a thorough understanding of interfacing fire curtain systems into buildings
- The supplier must have the capabilities to maintain the system

Builder  Fire Safety Engineer  Architect  Certifier
Bovis Lend Lease  ITC Group  BVN Architects  Certis

If you are having difficulties getting your design through the approval processes you are not benefiting from Smoke Control’s successful formula of ‘Full Life Cycle Service’. We have achieved many successful results for our clients including many “firsts” and for frustratingly difficult projects.

Contact us now on 1300 665 471 to discuss how we may help.
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W: www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
Problem
Fire separation was required in a warehouse that was located in an area of high traffic movement.

Solution
Smoke Control installed Fibershield Fire Curtains to the areas that required fire compartmentation.

Design Considerations
The system installed was required to be compact and have the ability to operate in conjunction with a high speed door. In addition the system had to provide a 2 hour fire rating.

Client
Australia Door Systems

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project overview

15 BUTTERFIELD ST
BRISBANE, QLD

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W: www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
Problem
A new building incorporated light wells using a cantilevered slab. The weight of alternative fire protection systems (eg: fire resistant glazing) were too heavy for the slab to be supported. Fibershield H horizontal fire curtains provided the only solution.

Solution
Smoke Control provided design assistance, supply, installation and commissioning of the FIRST automatic Fibershield H horizontal fire curtains in Queensland and only the third project in the southern hemisphere as at September 2008. Note; The system for this project was 60% cheaper than fire resistant glass blocks and reinforcement to the concrete slab.

Design Considerations
The overall design concept was to allow sufficient light into the building (floor areas are very large) to reduce energy consumption and provide a Green Star rating. The atrium design was integral to this rating, allowing for natural light and air movement between levels. The 4x Fibershield H horizontal fire curtains needed to;

- Be light weight, reliable, compact in design, invisible in non-fire mode
- Be accessible for maintenance
- Span 4 openings 10m long x 4.5m wide
- Be fire tested to AS1530.4 for up to 2 hours.

Builder  Fire Safety Engineer  Architect
Devine Constructions  Fire Check Consultants  Cottee Parker

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project overview

STOCKLAND HQ
SYDNEY, AUSTRALIA

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W: www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
**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

**Certifier**
Phillip Chun & Associates

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project overview

NICTA
REDFERN, SYDNEY

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W: www.smokecontrol.com.au  •  T: 1300 665 471  •  E: info@smokecontrol.com.au
**Problem**
Interconnecting stairs in an office building.

**Solution**
Installation of 2x Fibershield Fire Curtains.

**Design Considerations**
The system had to be light weight, compact and concealed in non-fire mode.

**Client**
Force Fire

**Fire Engineer**
Scientific Fire Services

*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.*
COLORADO
BRISBANE, QLD

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release vents • natural ventilation • fire resistant glazing • horizontal glazing • smoke doors • fire doors •
intumescent paint & other specialty systems

W: www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
Problem
Five (5) continuous levels of inter-connecting stairs within the building.

Solution
Fibershield automatic fire curtains were installed to allow an open plan office (in non-fire mode) but to give effective fire separation in fire mode.

Design Considerations
AS1530 Part 4 fire test data and AS1905 Part 2 approvals providing confidence of a suitable level of performance. In addition consideration of maintaining the aesthetically pleasing nature of the design (without bottom bar sag) for the life of the building was required.

Client
Colorado Group

Builder
Built (Queensland)

Fire Safety Engineer
Lincolne Scott (Brisbane)

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project overview

2 MARKET STREET, SYDNEY
SYDNEY, NSW

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W: www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
Problem
An office building addition adjacent to an existing building on the same site created one side of a new atrium. The new building was connected to the existing building by bridges across the atrium. Fire and smoke performance of the adjacent 6 storey wall was required for protection.

Solution
Install Fibershield single span 2 hour fire curtains by bridges across the atrium, consisting of 10m wide x 3m high windows and door ways.

Design Considerations
The system was to be invisible in non-fire mode and gravity fail safe. The system’s performance had to be proven by hot smoke testing. The curtain could only be accessed from the atrium side and therefore access for maintenance was achieved by installing adequate support measures into the ceiling of the atrium.

Client
Allianz

Fire Safety Engineer
Arup Fire

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.
project overview

23 NARABANG WAY
BELROSE, NSW

23 NARABANG WAY
BELROSE, NSW

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www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
**Problem**
A large window within 3m of a boundary in an existing building. Access to the exterior of the building was difficult.

**Solution**
Install Fibershield 2 hour fire curtains connected to the building fire alarm system.

**Design Considerations**
Due to the contour of the site and the required access needed for maintenance, the fire curtain system was installed internally within the building.

**Client**
St. Hilliers

*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.*
project overview

ORLANDO WYNDHAM
NORTH RYDE, NSW

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

W: www.smokecontrol.com.au • T: 1300 665 471 • E: info@smokecontrol.com.au
Problem
Fire compartmentation requirements for a kitchen clashed with architectural open plan design.

Solution
Installation of Fibershield fire curtain 9m wide x 3m drop.

Design Considerations
The system needed to be invisible in non-fire mode and be gravity fail safe. The system activates on receipt of an alarm signal from the Fire indicator panel.

Client
Built (NSW)

Fire Safety Engineer
HC Group

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.