



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



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

projectoverview



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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projectoverview



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



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.

Builder

Bovis Lend Lease

Fire Safety Engineer

ITC Group

Architect

BVN Architects

Certifier

Certis





APM

MARYVILLE, VICTORIA



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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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15 BUTTERFIELD ST

BRISBANE, QLD



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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

Devine Constructions

Fire Safety Engineer

Fire Check Consultants

Architect

Cottee Parker

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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

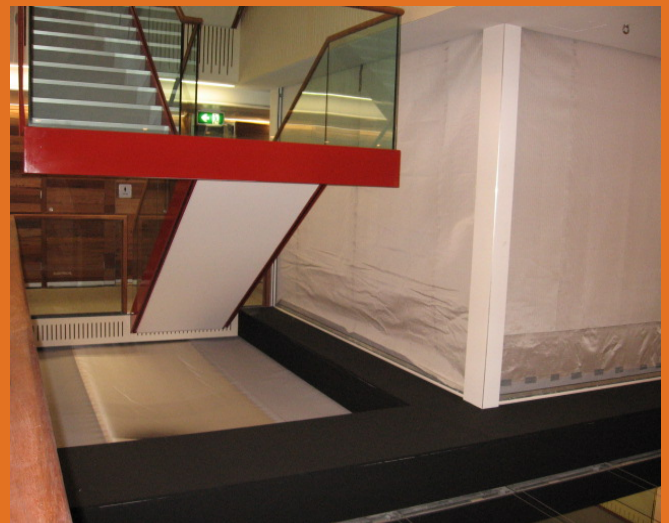
Architect

Bligh Voller Nield Architect

Certifier

Phillip Chun & Associates

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projectoverview



NICTA

REDFERN, SYDNEY



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projectoverview



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

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COLORADO

BRISBANE, QLD



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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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2 MARKET STREET, SYDNEY

SYDNEY, NSW



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projectoverview



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

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23 NARABANG WAY

BELROSE, NSW



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projectoverview



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

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ORLANDO WYNDHAM

NORTH RYDE, NSW



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projectoverview



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.*

