

OIL SEARCH BUILDING

CASE STUDY

CLIENT:	Oil Search Sydney, Australia
SECTOR:	Commercial Office
PROJECT:	FireMaster® Concertina™ Active Fire Curtain
APPLICATION:	Stairs, Escalators and Elevators



coopers

EST. 1983

LEADING THE WAY IN FIRE PROTECTION

COOPERS INSTALL WORLD'S FIRST CIRCULAR FIRE CURTAIN

WHAT TYPE OF FIRE PROTECTION WAS THE CLIENT LOOKING FOR?

When Australian Exploration Company Oil Search considered the fitout of their prestigious Sydney head office, a modern, open plan environment featured high on their brief. Occupying several floors of the city's Bligh Street Tower, the famous circular design is reflected throughout the building with the focal point centring on the spiral stairwells. Oil Search wanted to connect all three floors, fully utilise the inter-tenancy stairwell whilst amplifying the floor to ceiling glazing to provide uninterrupted views of Sydney Harbour.

Key to achieving this was the need to comply with stringent building and fire regulations with the major challenge being the need to prevent the central inter-tenancy spiral stairwells from dispersing heat and smoke throughout the building in the event of a fire. The final challenge; to meet the projects four month deadline.

HOW DID COOPERS HELP?

KANNFINCH architects approached Coopers Fire to develop a solution that would allow the designed removal of the glazing around the stairwells and introducing a bespoke, one-of-a-kind fire curtain system that would ensure compliance with building regulations and protect occupants from fire.

Coopers investment in advancing fire and smoke curtain barrier technology led to the launch of the ground breaking FireMaster® Concertina™ fire curtain.

The unique Concertina™ is not governed by traditional side guide channels that need to interface with the buildings' construction to create a seal.

“ Overcoming these unique challenges led us to achieve a number of industry firsts that encapsulates over 30 years of Coopers Fire protection engineering
Clinton Greene, Coopers Pty Ltd (Australia) ”

The system is flexible enough to be configured to fit squares, rectangles, faceted curves, multi-sided shapes, and in this application a circle.

Rising to the challenges presented by Oil Search's team required Coopers to engineer, install and commission the world's first circular fire curtain within the stipulated deadline, a challenge that Coopers engineering and development team were equal to.

BENEFITS

The modular construction of the Concertina™ helped Coopers to install and commission the unique fire curtain within the deadline but importantly, Coopers ensured that the building met the fire engineered solution whilst helping to achieve a uniformed open plan design.

The Concertina™ is approved as a 2 Hour fire curtain and is designed to remain hidden within a ceiling void, deploying to enclose the staircase and form a protective barrier against fire, providing occupants' with the essential time to evacuate by means of the fire escapes. Furthermore, the patented SLAT™ system ensured that the fire curtain's bottom plate seamlessly blends with the surrounding ceiling interface, ensuring that the design aesthetics weren't compromised.

Oil Search have achieved stunning, uninterrupted views of Sydney Harbour due to an open plan office as the Concertina™ discounts the need for side channels with supporting posts and columns.

KEY BENEFITS

- Multiple shapes with No side guides, columns and posts
- Facilitates open plan designs
- 2 Hour Fire Rating
- Manufactured by Coopers in the UK under ISO 9001
- Bespoke development and manufacture



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Coopers Fire Ltd has a policy of continuous product improvement.

As such we reserve the right to change design and specifications without prior notice.

Please check our website for the latest information