



# SYDNEY OPERA HOUSE

## CASE STUDY

CLIENT: Sydney Opera House  
Sydney, Australia

SECTOR: Leisure

PROJECT: Smokestop™ Smoke  
Curtain Barrier

APPLICATION: Compartmentation



**coopers**

EST. 1983

LEADING THE WAY IN FIRE PROTECTION

# COOPERS PROTECT AUSTRALIA'S ICONIC OPERA HOUSE

## WHAT FIRE PROTECTION WAS THE CLIENT LOOKING FOR?

Sydney Opera House is a masterpiece of late modern architecture that's admired internationally and proudly treasured by the people of Australia. In its short lifetime, it has earned a reputation as a world-class performing arts centre that symbolises both Sydney and the Australian nation.

Upgrades to the playhouse, drama and studio theatres were recently undertaken in order to improve the fire and life safety concerns within the building. As an extremely complex structure, there were many challenges that needed to be addressed in order to effectively manage the migration of smoke in the event of fire. It was immediately apparent that traditional mechanical smoke management systems alone would not provide the solution and that an alternative to traditional smoke containment was required.

## HOW DID COOPERS HELP?

Following a comprehensive tender, Coopers were appointed by the Sydney Opera House team direct, to manufacture and install SmokeStop™ smoke curtains to the Studio, Drama, and Playhouse Theatres.

As part of a bespoke fire engineered solution, Coopers SmokeStop™ smoke curtains were installed to work in conjunction with the improved detection and upgraded air handling systems. The SmokeStop™ smoke curtains were developed by Coopers to deploy from the ceiling to compartmentalise the backstage area of the theatres and protect the auditoriums from filling with smoke.

“ Our fire and smoke curtains help the world's most architecturally famous buildings meet stringent fire regulations without compromising design ”

Once fully installed and commissioned, Sydney Opera Houses' management team approached Coopers to provide its staff with comprehensive training on how the smoke curtains operated. Once trained the Opera House initiate a planned program of weekly fire and smoke testing that would include the full deployment of the curtain barriers.

## BENEFITS

Coopers developed, manufactured, installed and commissioned SmokeStop™ smoke curtains in three theatres to work with the Opera Houses' air handling system to provide a fully integrated smoke control strategy.

Furthermore, Coopers were appointed to undertake a program of planned preventative maintenance of the Opera Houses smoke curtain barriers, ensuring that the building's occupants are protected from the harmful effects of smoke in the event of a fire.

As the only company approved for the installation, commissioning and servicing of active and fixed, flexible barriers for fire and smoke control under the UKAS Accredited IFC Certification Ltd. scheme SD105; Coopers service offer is unique.

## KEY BENEFITS

- Approved accreditation under an Independent Third Party Certification scheme
- Manufactured by Coopers in the UK under ISO 9001
- Planned preventative maintenance programs ensure that you remain compliant with legal and insurance obligations
- CE Marked



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

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