



“Engineering for Life, Safety & Comfort”





Swiss Re
London

Lane Crawford
Singapore

Buckingham Palace
London

Xanadu - Madrid

Coopers

-  Fire and Smoke Engineering
-  Fire and Smoke Ventilation
-  Solar Control Systems
-  Service and Maintenance



Fire and smoke

The Company

Andrew and John Cooper patented the modern day concept of the electromagnetic gravity fail safe fire and smoke barrier back in 1981, and since then Coopers has become the market leader in innovative fire and smoke barrier technology.

From the early days of development and manufacture of its very first smoke curtain systems, Coopers has incorporated both active and passive smoke ventilation products and intelligent controls to create a total SHEVS (Smoke Heat Exhaust Ventilation Systems) package. This new generation of integrated fire and smoke control systems has already been installed in many major building projects throughout the world.

The company policy of staying connected to the continually changing fire regulations and fire engineered solutions that affect the industry has led to many design innovations along the way to meet these changes. The 'Variospeed' drive system for example, a milestone in smoke barrier control, and FireMasterPlus 2 hour insulation, dynamic fail safe braking are still being used successfully today by Coopers and their imitators.

Rigorous product testing and market research has always been a fundamental part of the Coopers design philosophy. It is this very aspect of the Company's structure that has resulted in the enhancement of existing products and the addition of new ones. The SmokeStop horizontal and curved smoke barriers were successfully launched in the mid-nineties, and more recently KoolShade and KoolGlass, the unique and highly efficient, micro louvre solar control systems, are now an established part of the company's product range.

The move to a new, custom built, hi-tech 25,000 sq. ft. factory early in 2005 combining the fire and smoke systems production with wire weaving and specialist glass lamination allows Coopers growth for the future.

Coopers is an ISO 9001:2000 company and is committed to providing quality environmental control solutions to an ever changing and demanding market place.

Whilst it is generally understood that smoke can kill and cause substantial damage to property, it's the fire that that can produce the total devastation from which many people and companies never recover.

Building on the knowledge gained in more than thirty years of smoke control, Coopers continues to lead the way by developing newer generations of fire containment systems that conform to, and often exceed legislative requirements. Coopers research and development work in advanced technology fabrics and sophisticated control systems ensures that true fitness for purpose is achieved.

It is a fact that smoke inhalation is a bigger killer than fire itself.

Superheated smoke spreads silently and rapidly throughout a building and can only be stopped by physical barriers and efficient extraction techniques.

Since 1975 Coopers has pioneered the modern day 'gravity fail safe' smoke curtain, the design of which has yet to be improved. As recognised market leaders in this technology, Coopers systems have been incorporated into many of the world's largest and most prestigious buildings. A carefully designed smoke containment system not only helps to save lives, but also reduces the disruption to business in the event of fire.





Ventilation

Solar control

Drives & controls

A carefully designed ventilation system can bring numerous benefits to both the owners and occupants of a building.

The integration of fire and smoke containment with an appropriate ventilation system can achieve a combination of low running costs, a cool, comfortable environment and ensure that the lives of the workforce are not put at risk.

Coopers design strategy for the future is to integrate leading edge technology products into intelligent systems that meet the ever changing regulations being imposed on the way we live.

Countless working hours are lost each year due to problems associated with the overheating of offices and places of work. With modern office procedures demanding the use of ever more heat generating office equipment, the problems are set to get worse.

It is thought that the record breaking temperatures of the summer of 2003, will continue to occur as a result of man's continuing environmental pollution. Building regulations now recommend passive eco-friendly methods of solar heat gain prevention. To meet this challenge, Coopers has developed a unique range of solar shading products that completely prevent the sun's rays entering a building, which in turn not only dramatically reduces running costs, but provides all the additional comforts associated with efficient solar control.

A healthy and safe working environment is high on the priority list for any organisation.

Legislation is often used as the force to drive forward product improvement. The philosophy at Coopers is to set the industry standards by providing systems that utilise state-of-the-art technology for operating and controlling the life saving systems that prevent the travel of fire and smoke in all types of buildings.

This new generation of more powerful, compact and intelligent drives and controls is designed be used on a diverse range of building projects.



Our expertise speaks for itself...

Coopers has been at the forefront of the design and installation of environmental control systems for over 30 years. Our portfolio of projects in major centres throughout the world illustrates the ability of Coopers' engineers to provide a high quality solution - every time.



XANADU SHOPPING CENTRE - MADRID SPAIN

It required a company with very specialised expertise to be entrusted with providing the fire and smoke emergency containment for what is now the largest shopping centre in Europe. 1.5 kilometres of monitored smoke curtains and 1.0 kilometre of FireMaster fire curtains operating in conjunction with over one thousand smoke ventilators protect the centre.

The flagship 'El Cortes' store alone has over 2000 square metres of smoke containment comprising the unique Coopers continuous circular void smoke curtain arrangement. A system that is operated by a fully monitored Variospeed control unit linked directly to the building management system.

Many other stores in this vast complex are also protected by Coopers fire and smoke products.

SWISS RE BUILDING - LONDON UK

The Swiss Re Building, affectionately known as 'Gherkin' is one of London's newest and most prestigious landmarks. Coopers engineers worked closely with Arup Fire Consultancy to design and install over a kilometre of smoke containment barriers covering twenty-two floors of the thirty nine storey glass tower. The unique design of the building produced challenging design restrictions and demanded highly detailed performance criteria from the Coopers' design team.

The building has an integrated smoke containment and smoke ventilation system that utilises natural ventilation principles for comfort cooling.



LAKESIDE SHOPPING CENTRE - THURROCK UK

As part of a major refurbishment of one of Europe's largest shopping malls, Coopers designed and installed a combined smoke containment/extraction system. The ventilators, which are glazed to provide additional natural daylight, automatically open in the event of a fire to release the smoke and products of combustion. The system has been designed to trap the smoke in a hot buoyant mass, which speeds up the extraction process when the ventilators are opened.



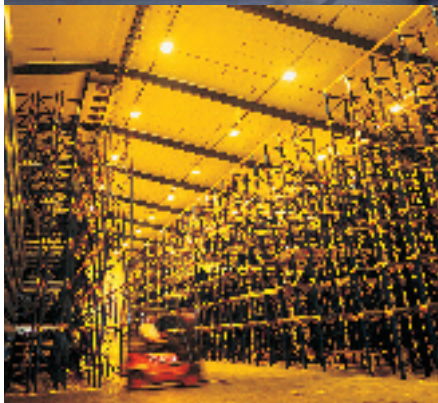
VETERANS AFFAIRS OFFICE - SACRAMENTO USA

Summer overheating and solar glare that caused difficulty with viewing computer screens, prompted urgent attention at the Sacramento Veterans Affairs office California. The internal vertical blinds did little to alleviate the problem, and they also restricted outward vision. After several options were considered, the decision was taken to install Coopers KoolShade SmartLouvre. The KoolShade system proved to be precisely the solution required to prevent the sun entering the building, prevent glare, reduce overheating, and provide an overall outward appearance that was both architecturally pleasing and maintenance free.





Companies protected by Coopers



AIRPORTS

Ataturk, Turkey
Birmingham, England
Brisbane, Australia
Chek Lap kok, Hong Kong
Dusseldorf, Germany
Gatwick, England
Heathrow, England
Luton, England
Manchester, England
Prestwick, Scotland
Stansted, England
Zavathem, Belgium

BANKS

Belgium Bank, Hong Kong
Credit Suisse, Canary Wharf, London, England
HSBC, Canary Wharf, London
Morgan Stanley, Canary Wharf, London, England
National Westminster, Manchester, England
Royal Bank of Scotland, Edinburgh, Scotland
Swiss Re, London, England

BUILDINGS OF NATIONAL INTEREST

Belfast Concert Hall, Northern Ireland
Buckingham Palace, London, England
European Parliament Building, Belgium
Hong Kong Conference Centre, Hong Kong

GOVERNMENT BUILDINGS

BAe Stringer Building, Manchester, England
GLA Headquarters, London, England
Holland Embassy, Tel Aviv, Israel
NAP, Main Operations Building, England
RAF, Alconbury, England

HOTELS

Crowne Plaza Hotel, Marlow, England
Hilton Hotel, Greece
Marco Polo Hotel Podium, Hong Kong
Radisson Hotel, Liverpool, England
Ritz, Berkeley St, London, England
Shangri La Hotel, Hong Kong
Westin Hotel, Kuala Lumpur, Malaysia

INDUSTRY & WAREHOUSES

BAT, Southampton, England
BOC, Newbury, England
JCB, Cheadle, England
Motorola, Swindon, England
Procter & Gamble, Belgium
RAF, Wattisham, England
Rover Plant, Gaydon, England
SmithKline Beecham, Harlow, England
Stella Artois, Belgium
Sun Micro, Farnborough, England

MUSEUMS & GALLERIES

British Museum, London, England
Christies, London, England
Imperial War Museum, London, England
Manchester City Art Gallery, England
National Portrait Gallery, London, England
Natural History Museum, London, England
Science Centre, Malaysia
Science Museum, London, England
Scottish Fisheries Museum, St Ayles, Scotland
Tate Gallery, London, England

OFFICES

Canary Wharf, London, England
GLA Building, London, England
NCM, Cardiff, Wales
St. Catherines, London, England
Standard Life, Edinburgh, Scotland

RAILWAY STATIONS

Kowloon, Hong Kong
Royal Mail, Willesden, England
Tsing Yi, Hong Kong

RETAILERS

ASDA, England
BHS, England
Boots, England
C&A, Geneva, Switzerland
Debenhams, England
El Cortes Ingles, Spain
GAP Stores, England
Hamleys, London, England
H&M Hennes, England
House of Fraser, England
John Lewis Partnership, England
Lane Crawford, Singapore
Marks and Spencer, England
Mothercare, England
Roches Stores, Ireland
Safeways, Basingstoke, England
Selfridges, England
Virgin Megastore, England
WH Smiths, England
Woolworths, England

SHOPPING CENTRES





Arndale, Manchester, England
Bentalls, Kingston, England
Bluewater Park, Dartford, England
Braehead, Glasgow, Scotland
Harlequin, Watford, England
Lakeside, Thurrock, England
Meadowhall, Sheffield, England
Oracle, Reading, England
Trafford Centre, Manchester, England
Trocadero, London, England
West Quay, Southampton, England
Whiteleys, London, England
Xanadu, Madrid, Spain



St Katharines Dock
London

Canary Wharf - London

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