



LANDMARK PROJECTS

INTERNATIONAL

Airports

Project: Hong Kong International Airport – East Hall works
Challenge: Choosing compatible materials with proven track record for both External and Internal location.
Result: Vermitex® 'AF' & 'DX' Passive fire protection to structural steel in semi/fully exposed location.
Completed: 2003

Industrial Facilities

Project: Tai Po Industrial Estate
Challenge: Client requiring reduced installation program with cost-effective materials for their Industrial manufacturing complex.
Result: Vermitex® 'AF' Passive Fire protection to structural steel elements throughout the Industrial complex to achieve a 2 Hour FRL.
Completed: 2002

Transport Infrastructure

Project: Ho Man Tin South – Phase 4 Link Bridge across Fat Kwong Street.
Challenge: Project required lightweight coating with minimal thickness to reduce encroachment on services and architectural finishes, and possessing excellent bond strength to the steel substrate.
Result: Structural steel coated with Vermitex® 'AF' 2 Hour FRL including mechanical retention in the form of galvanised mesh reinforcement.
Completed: 2001

Multipurpose Venues

Project: International Exhibition Centre, Hong Kong International Airport
Challenge: Provide fire and corrosion protection to exposed steel, including specific detail at interface between different fire protection materials.
Result: Provided 25 year Warranty to cover corrosion and fire protection.
Completed: 2005

Office Buildings

Project: Tai Po Bus Depot and Sheung Shui Bus Depot
Challenge: Installation time and cost limitations were of critical importance.
Result: Vermitex® 'DX' Passive Fire Protection coating achieving a 2 Hour FRL to structural supports in exposed location.
Completed: 2002

Commercial High Rise Buildings

Project: URA K2 Comprehensive Redevelopment
Challenge: Competitive Tender bid with 2 hrs internal and external passive fire protection to structural steel.
Result: Vermitex® 'AF' and 'DX' were chosen by Client to provide 2 hour fire protection to approximately 35,000 m² of structural steel area.
Completed: 2003



HONG KONG INTERNATIONAL AIRPORT



HONG KONG INTERNATIONAL AIRPORT



LANDMARK PROJECTS



INFORMATION



URA K2, HONG KONG



CROSS CITY TUNNEL, SYDNEY



INTERNATIONAL EXHIBITION CENTRE, HONG KONG



SYDNEY SUPERDOME

Our proven performance is the measure of our success

As consultants, manufacturers and contractors, LAF Group is a market leader in passive fire protection and noise reduction systems. In operation since 1960, our innovative yet practical approach to problem solving for the construction, industrial and agricultural sectors has crystallised customer confidence and recognition by our industry peers.



NATIONAL

Airports

Project: Sydney Airport – Domestic Terminal
 Challenge: Containing costs for the client while maintaining an appealing surface.
 Result: Cost-effective passive fire protection to structural steel in plant room and egress passages, yet with an architecturally pleasing finish.
 Completed: 1989

Railway Stations

Project: Sydney 2000 Olympic Site – Olympic Park Railway Station
 Challenge: 1500-volt overhead powerlines and non-dusting spray surface within main switch rooms.
 Result: Passive fire protection to main tunnel structural steel members within the allocated timeframe, and steel lintels finished with reduced overspray.
 Completed: 2000

Tunnels

Project: Cross City Tunnel, Sydney
 Challenge: Reduce material thickness and increase application speed.
 Result: Tested and certified thicknesses to provide the required protection and increased application efficiency to ensure work was completed ahead of schedule.
 Completed: 2005

Multipurpose Venues

Project: Sydney 2000 Olympic Site – Multi-use Arena
 Challenge: Three to six month weather exposure for steel members, two-hour compartmentalisation of supply-air plenum between main arena and lower tier level, fully exposed roof backstay cables.
 Result: Short-term water-resistant passive fire protection to structural steel. Design and construct of a lighter alternative solution for two-hour fire-rated air plenum separation complete with fire dampers and ancillary services support grid. Precast stainless steel-finished fire protection to permanently exposed roof backstay cables.
 Completed: 2000



Education Facilities

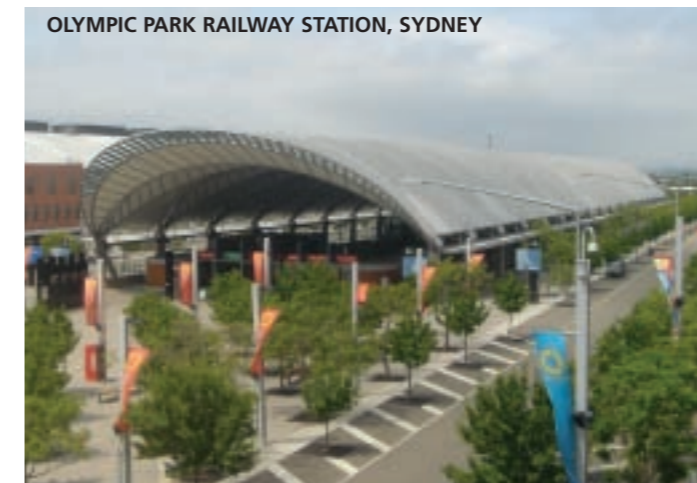
Project: University of New South Wales – Science Precinct
 Challenge: Minimise installation time and weight.
 Result: Thinner passive fire protection to roof structural steel members.
 Completed: 1997

Hospitals

Project: Westmead Children’s Hospital
 Challenge: Fire protection for laboratory fume cabinets, which necessitated the use of PVC to avoid common sheetmetal duct erosion from toxic gases and chemicals.
 Result: Researched, fire tested and installed self-supporting two-hour passive fire protection for PVC ductwork – a cost-effective alternative to stainless steel.
 Completed: 1994

Retail Venues

Project: Queen Victoria Building
 Challenge: Reduced construction clearance in existing retail areas for installation of structural steel and existing services.
 Result: Thinner passive fire protection to structural steel members, allowing acceptable clearance for air-handling services.
 Completed: 1996



Office Buildings

Project: AMP Tower
 Challenge: Refurbishment of high-rise building with occupied floors.
 Result: Design and installation of passive fire protection with minimal disruption to tenant comfort while refurbishing required smoke and air-handling services.
 Completed: 1997

Project: Governor Phillip Tower and Governor Macquarie Tower
 Challenge: Large horizontal ductwork, and exhaust and supply air substation risers spanning three levels.
 Result: Passive fire protection to mechanical services including supply air, car park and kitchen exhaust systems. Design and construction of self-supporting ductwork suspended from third level plant-room floor.
 Completed: 1994

Project: Chifley Tower
 Challenge: Rectification of existing non-complying ductwork installation.
 Result: Fire-engineered non-destructive solution, upgrading the existing level of fire protection to all air-handling services more than 1200 mm in width.
 Completed: 1993

Industrial Facilities

Project: Orica Industrial (formerly ICI)
 Challenge: External fire-resistant coating to structural supports.
 Result: Installation of fire-protective cement-based coatings to vessels in fully exposed environment.
 Completed: 1969

Heritage Projects

Project : Customs House
 Challenge: Providing smoke and fire protection to floors without disturbing existing ornamental ceilings.
 Result: Passive fire protection upgrade to existing heritage ceilings, smoke sealing to electrical risers and fire stairs compartmentalisation.
 Completed: 1999