FORMAT

6

Siemens Head Office

CSIRO Melbourne

Tuas Power Singapore

Hong Kong Rail

BMW Showroom

A NEWSLETTER FROM HH ROBERTSON ASIA/ PACIFIC

SIEMENS head office

Marke Kelly, of architects Woods Bagot, specified Robertson Formawall to all facades for Siemens' recently completed head office in Bayswater, Melbourne.

Head contractors, Thiess Construction confirmed Robertson's selection based on price and past performance.

Robertson supplied and installed more than 3,200 square metres of Formawall to the striking three-level structure in a Single Responsibility contract that included more than 1,000 square metres of Robertson Continu-line louvres — completing all contracts on budget.

Robertson insulated architectural wall panel systems meet the highest technology requirements for innovation, form and function.

Ten times more efficient as an insulating medium than concrete panel twice as thick and 13 times lighter, Robertson architectural wall panel systems allow owners and designers to create lightweight, energy-efficient structures with reduced airconditioning plant requirements and lower long-term operating costs.

Developed by Robertson in 1966 and proven through in-place performance over 30 years, Robertson architectural wall systems remain the industry standard – chosen by technology leaders including Siemens, CSIRO, Resmed, Apple, IBM, Compaq, Digital and others in high-technology industries worldwide.

CSIRO Melbourne

Australia's CSIRO is undertaking an ongoing building program to improve the working environment for its researchers and scientists, including those at the Division of Minerals laboratory in Clayton, Melbourne.

When architects Andrew Kings and Woods Bagot were short-listed for the design, they formed an association for the project, using Robertson Formawall finished in pearlescent Silver Coin for the external cladding to the new complex.

Woods Bagot has employed the Silver Coin finish on landmark projects such as the Cathay Pacific Data Centre in Sydney and the new Siemens head office (left).

He points to Formawall's "outstanding insulation and durability" and the changing hue and lustre that results from the use of the pearlescent Silver Coin finish.

The Division of Minerals' development includes research laboratories and offices in one building, plus a large-scale experimental space in another, connected by an elevated glass walkway. The use of Formawall cladding, with its high insulation values, helps to maintain the consistent internal environment needed to support high level research, while sunshades admit abundant natural light but keep direct sunlight from entering.

Robertson completed the supply and installation of Formawall 1000 horizontal panel and rainwater goods on a Single Responsibility contract with builders Baulderstone Hornibrook.

TUAS POWER
Singapore

Robertson Versacor protected metal roof and wall cladding has been supplied and installed as a Single Responsibility contract for the major elements of Singapore's Tuas 'A' Stage 1 power station located in the south west of the island.

Robertson invented protected metal cladding in 1906 when it developed the first coating systems to effectively protect metal against corrosion.

Robertson Protected Metal – or RPM as it quickly became known – was soon accepted by designers and constructors because it allowed for the rapid construction of relatively lightweight steel skinned buildings with little building mass and minimal internal support, such as modern power stations or large aviation hangars.

In 1966 Robertson achieved another first through the development of a proprietary flexibilised epoxy coating system – Versacor – which now protects Robertson roof and wall cladding on over 2,500 of today's power stations, smelters, incinerators, glass-making plants and similar industrial structures worldwide.

Used for almost every power station in Singapore and surrounding South East Asian countries, Versacor remains uniquely capable and proven.

For Tuas 'A' Stage 1, Robertson has produced and installed more than 69,000 square metres of Versacor protected roof and wall cladding to the boiler house, turbine building, switch house, stores, workshops and walkways.

Robertson's early involvement in the production of industrial building systems quickly led to the development and testing of sophisticated gravity ventilation systems for large heat and/or fume producing structures.

The Tuas A boiler house incorporates Robertson's proven ventilation through a 120 metre long, roof-mounted Robertson Ultra Flow ventilation unit with an independently certified coefficient of discharge of 0.65.

Robertson Protected Metal, Goodyear Zeppelin Hangar, 1928.

Semakau

One of the world's largest offshore landfill projects is now underway in Singapore where an area the size of 440 football fields has been reclaimed off the island of Semakau to accept waste from the city's onshore refuse incinerators for the next 30 years.

Work on the huge project began in 1995 and is now complete, with the construction of a huge retaining bund more than 17 kilometres long enclosing an area of 350 hectares capable of storing more than 63 million cubic metres of fill. Incinerated waste will be carried 25 kilometres by barge from the existing Tuas incineration area to Semakau.

Robertson has completed Single Responsibility contracts for the supply and installation of more than 35,000 square metres of insulated roof cladding to major structures for the project, including the marine transfer stations at Tuas and Semakau.

Consultants Camp Dresser McKee International (S) Pte Ltd selected Robertson's proprietary HF coating to all cladding for the major elements. Versacor HF is a multilayered Robertson coating for industrial buildings requiring the highest level of protection against internal and external corrosion. The Versacor material was supplied under an exclusive agreement with Centria International.

Central Station

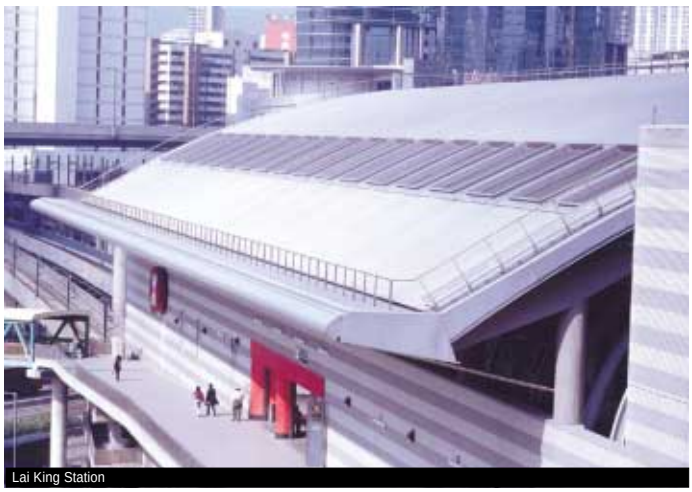
Olympic Station

Central Station

Olympic Station

Central Station

Olympic Station



Lai King Station

Siu Ho Wan

HONG KONG Rail

Siu Ho Wan

Siu Ho Wan

Tsuen Wan Depot

In Hong Kong, Robertson has been a major supplier of Vitreous Enamel panel, roofing systems, glazing and ventilation to new and refurbished MTRC stations and supporting rail facilities.

At Central, the largest of Hong Kong's stations (far left) Robertson won contracts for the supply and installation of support steelwork and internal wall linings incorporating 12,500 square metres of Vitreous Enamel panel.

Rolling three separate contracts into one, Robertson also undertook the supply and installation of glazing to the station entrance.

The use of Vitreous Enamel panel for interior linings results from Robertson's determination to provide a fused enamel surface tough enough to withstand the continuous abrasion, knocks and occasional mistreatment that occurs with intense use by commuters over a long period of time.

The tough, gloss finish of Vitreous Enamel is achieved through high temperature firing that results in molten colour fusing to the steel surface of the wall panel.

Easy to maintain and clean, Robertson Vitreous Enamel panels are entirely colourfast and can be 'printed' to incorporate graphics or illustrations.

At Olympic Station (left), dark blue Vitreous Enamel panels supplied and installed by Robertson incorporate signage and, at intervals, huge murals depicting Olympic sports, all fused into the panel.

At Lai King (bottom, far left) Robertson supplied and installed the roof enclosure to the station extension which caters for the new airport railway. The contract included the curved aluminium roof, insulation, liners, aluminium louvres, gutters, and stainless steel pipework.

The construction of the Siu Ho Wan depot (below left, mid right and top right) required an even greater range of elements and expertise, with Robertson supplying and installing the double skinned roof, 700 square metre curtainwall, gravity ventilators, doors and typhoon doors. At Tsuen Wan (right), Robertson again supplied the depot's ventilation system.

BMW Melbourne

BMW'S stand-alone showroom in South Melbourne makes use of bold design and Robertson products to express the standards of quality for which BMW is renowned.

Located at one of Melbourne's busiest intersections, the dealership has retained the clean lines sought by architects Synman Justin Bialek, despite constant exposure to emissions from heavy road haulage.

Robertson produced a special Brilliant White PVF_2 for all components to the project, including Formawall to the showroom and Hurricane Rib for the central 'drum' above the showroom.

Hurricane Rib is most often seen in vertical applications for large industrial enclosures. Its recent use as a horizontal sheet in architectural applications is based on the bold texture it provides when used as a feature material. In addition to BMW, horizontal industrial profiles from Robertson are also widely used at the new Royal Easter Showgrounds in Sydney.

Work in Progress

NORTH EAST ASIA
Stonecutters Island Improvement Works, Hong Kong
Kaohsiung Ren Wu Incinerator, Taiwan
Eastcom Telecommunications Plant, PROC
Kowloon Canton Railway Corporation, University Station Extension, Hong Kong
Lin Ao Nuclear Power Station, PROC
Hong Kong Electric Headquarters Development, Hong Kong

SOUTH EAST ASIA
Ulu Pandan Sewerage Works, Singapore
Merck Sharp and Dohme Headquarters, Singapore
Marine Parade Office Building, Singapore
Robertson Quay Hotel, Singapore
Kaki Bukit Warehouse, Singapore
Tuas Power Station, Singapore
Tuas Incinerator, Singapore
Ratchaburi Power Station, Thailand, supply only
Krabi Power Station, Thailand, supply only

PACIFIC
Qantas Sydney Domestic Terminal Expansion, Sydney
60 Castlereagh Street Development, Sydney
Goodman Fielder Building, Sydney
Aurora Apartments, Melbourne
Multipurpose Venue, Melbourne
Exchange Centre, Sydney

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Robertson

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