

ASI STEEL AWARDS — QLD 2006



AUSTRALIAN STEEL INSTITUTE

It was another great year for the ASI Queensland Steel Awards, with an increase in the number of entries and great attendance and entertainment at the presentation dinner held on Friday, 25 August 2006.

Entries to the 2006 Queensland Steel Awards increased 25% to last year and showcased the diverse and innovative applications of steel in construction and aesthetic design. The increase in entries also allowed judges to create a residential sub category within the Architectural Steel Design Award.

The presentation dinner, held at the Brisbane Convention and Exhibition Centre, was highly successful with winners, sponsors, ASI member, and guests alike warmed by the comedic styles of the MC, Jimmy Poulos, and highlight performer, Marty Coffey.

ASI Queensland would like to thank the event sponsors for their contribution and support.

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ARCHITECTURAL STEEL DESIGN AWARD - Winner

ABORIGINAL & ISLANDER INDEPENDENT COMMUNITY SCHOOL REDEVELOPMENT

ARCHITECT	Richard Kirk Architects
ENGINEER	Cardno Alexander Browne
BUILDING CONTRACTOR	Badge Constructions
STEEL FABRICATOR	Watkins Steel
STEEL DETAILER	Watkins Steel



More widely known as Murri School, it is one of the few Indigenously owned and operated schools in Australia. This redevelopment is first of a 5 stage masterplan to be realized over a 10 year period. Design efforts were focussed on creating a non institutionalized setting. The four building types are arranged around a central courtyard creating a strong link with the outside. Funded on a stringent Federal Government allocation, repetition in design and utilization of steel cladding and detailing give a strong aesthetic appeal while maximizing space and light.

ARCHITECTURAL STEEL DESIGN AWARD – High Commendation

ST. STEPHEN'S CATHEDRAL NORTHERN PRECINCT DEVELOPMENT

ARCHITECT **Conrad Gargett Architecture**
ENGINEER **Cardno Alexander Browne**
BUILDING CONTRACTOR **John Holland Group**
STEEL FABRICATOR **Casa Engineering**
STEEL DETAILER **Alpetros Design**



This development faced 2 unique challenges: to build between a Cathedral and a 32 storey office building, and to create an inclusive public space imbued with Christian spirituality. The resulting structure is divided into a series of 5 strips. Each is infused with inspiration from the surrounding environment and St. Stephen's life. The abstract expression of Christianity allows the precinct to be communally used, whether for worship, rest, inspiration or to simply enjoy its symbolism and artistic merits.

ARCHITECTURAL STEEL DESIGN AWARD: RESIDENTIAL - Winner

CLAYDEN HOUSE

ARCHITECT **Kevin Hayes Architects**
ENGINEER **DEQ Saunders**
BUILDING CONTRACTOR **Urban Matters**
STEEL FABRICATOR **Gateway Steel**
STEEL DETAILER **Gateway Steel**



Set on a small lot, the design brief for this project was to create a minimalist "box" like house which was to feel open and contemporary in nature. A variety of large and elongated windows and louvers were used on the upper level to make the most of the east facing building. The depth of the steel portal frame used on the upper level allowed for storage space such as bookcases and wardrobes to be built in, enhancing the streamlined and minimal effect.

STRUCTURAL ENGINEERING STEEL DESIGN AWARD - Winner

ROLLESTON COAL HANDLING FACILITY – COAL STACKER

ENGINEER **Connell Hatch**
ARCHITECT **Connell Hatch**
BUILDING CONTRACTOR **Monadelphous**
STEEL FABRICATOR **Gay Constructions**
STEEL DETAILER **Cadtech Australia**



As part of the new Rolleston mine, the stacker has an output of 1,700 tonnes per hour and will stack coal in 20 metre high stockpiles for later reclaim and transport to Gladstone. It features a 53 ½ metre long boom with a 13 ½ metre back span and a 40 metre cantilever. The stacker has a very high level of automation and is operated from remote control. Custom designed and fabricated in Brisbane, the stacker proved to be 20 – 25 per cent cheaper than proposals from offshore manufacturers for the procurement of an "off the shelf" machine.

STRUCTURAL ENGINEERING STEEL DESIGN AWARD – High Commendation

BRISBANE AIRPORT DOMESTIC LONG TERM CAR PARK EXTENSION

ENGINEER	Robert Bird Group
ARCHITECT	ML Design
BUILDING CONTRACTOR	Barclay Mowlem Constructions
STEEL FABRICATOR	Beenleigh Steel Fabrications
STEEL DETAILER	T.D. Drafting Services



The lower carpark structure, built approximately five years ago in prestressed concrete, was designed to allow a subsequent vertical extension of two levels using the same concrete structural system. By adopting the steel framing/steel decking option, considerable weight was saved compared to the concrete option. This weight reduction allowed an additional level to be constructed, without the need to strengthen the lower structure. Structural steel with steel decking also proved to be fast to construct and eliminated the need for the back propping of floors.

METAL BUILDING PRODUCT DESIGN AWARD - Winner

CROYDON RAILWAY STATION

ARCHITECT	Buchanan Architects
ENGINEER	Farr Engineers
BUILDING CONTRACTOR	LM Engineering
STEEL FABRICATOR	Quadrattec & LM Engineering
STEEL DETAILER	LM Engineering
METAL BUILDING CONTRACTOR	LM Engineering



Essential to the design of this project was that the building design and materials be capable of withstanding cyclones and monsoonal weather, extreme heat and the ravages of termites. The exposed steel frame and Zincalume steel cladding on the walls and roof is a modern translation of the aesthetics of North Queensland rail way stations built in the late 19th Century. The building was intentionally unpainted to fully exploit the industrial metal aesthetic of the steel and zincalume cladding. These materials also ensure that recurrent maintenance is minimal.

METAL BUILDING PRODUCT DESIGN AWARD – High Commendation

GH1 MEDICINE & ORAL HEALTH GRIFFITH UNIVERSITY, GOLD COAST CAMPUS

ARCHITECT	Phillips Smith Conwell Architects
ENGINEER	Cardno Alexander Browne
BUILDING CONTRACTOR	Theiss
STEEL FABRICATOR	Gay Constructions
STEEL DETAILER	Cadtech Australia
METAL BUILDING CONTRACTOR	Queensland Industrial Cladding



Housing both the medical and dental schools, it was important that the design aesthetics of the building reinforced the corporate presence of the University on the Gold Coast. Longspan cladding with a reflective metallic finish was used to enhance the façade of the concrete framed structure, turning the buildings functional pod design into an eye catching feature. Ease of installation of the roll formed cladding had the advantage of being fast to install and economical, both of which were required for this project's success.

STUDENT WINNERS

Griffith University	Russell Thorne
Queensland University of Technology	Greg Thomas
James Cook University	Daniel Hansen
The University of Queensland	Lisa McMillan
University of Southern Queensland	Tristan Bruest