



## Winners of first state steel awards named

The project winners in four categories of the NSW/ACT state rounds of the ASI's Steel Excellence Awards were announced on 15 July in Sydney.

The transformation of a 1916 building at 5 Martin Place in Sydney's CBD into a 20-level premium grade office building that overcame heritage constraints won in Buildings – Large Projects. Maximising steel's loadbearing potential to create a shelter for mountain bike and BMX riders, the Wylde Trail Shelters in western Sydney topped the Buildings – Small Project stakes. Both of these awards were presented by major sponsor, Hunter Galvanizing.

A new footbridge servicing the massive Barangaroo precinct along Sydney Harbour that brought to life some tricky geometries in a series of leaning steel portals skewed in perfect arrangements, was presented as the winner in the Engineering Projects category by event sponsor, Bisalloy Steels.

And for Steel Clad Structures, the Crackenback Stables complex in the Snowy Mountains attracted the top accolade in this category. Beautifully clad in corrugated galvanized steel, it featured weathering steel panelling at each end as well as holding yards and breezeway spaces.

In related news, Haydn Brown from engineering practice, Mott MacDonald won the Young Designer, Detailer, Tradesperson Award.

### Buildings – Large Projects

WINNER – 5 Martin Place, Sydney  
High Commendation – 80 Arthur Street, North Sydney  
Shortlisted – 20 Martin Place, Sydney

### Buildings – Small Projects

WINNER – Wylde Trail Shelters  
High Commendation – 580 George Street Entry Awning, Sydney  
Shortlisted – Narara Valley School (this project was the next highest score)

### Engineering Projects

WINNER – City Walk Bridge, Barangaroo, Sydney  
High Commendation – Sydney Boat House  
High Commendation – Narrabeen Lagoon Trail

### Steel Clad Structures

WINNER – Crackenback Stables  
High Commendation – Maritime Museum Pavilion  
Shortlisted – Canberra University Sports Common

### Young Designer, Detailer, Tradesperson Award

WINNER – **Haydn Brown** (Mott MacDonald)  
High Commendation – **Christa Zacharia** (Lendlease)

### Student Awards

**OFFCDT Brian Duane** (Australian Defence Force Academy)  
**Nathan Haddad** (University of Sydney)  
**Jason Johnston** (University of Western Sydney)  
**William Norrie** (University of Wollongong)  
**Daniel Pospischil** (University of Technology, Sydney)  
**Robert Suckling** (University of Newcastle)  
**Camellia Wong** (University of NSW)

### Judging Panel

**David Bell** (Business Development Manager NSW/QLD, OneSteel) Manufacturing  
**Dr Peter Key** (National Technical Development Manager, ASI) Engineering  
**Nazareno Manuele** (Director, Cadraw) Steel Detailing  
**John Merrick** (Technical Director – Structures, Arcadis) Engineering  
**Graeme Smith** (Architect) Architecture

## BUILDINGS – LARGE PROJECTS 5 Martin Place, Sydney (Winner)



A 1916 building in Sydney's CBD was transformed into a 20-level premium grade office building within heritage constraints. The steel frame allowed features like lift shafts of glass blocks, glass floors to lift lobbies and complex light 'boxes' to be incorporated. Ten levels of office tower were cantilevered 22 metres over the heritage building to use all available area. The judges were impressed with how the complexity of the structural steel framed awning was addressed through the design, detailing, fabrication and installation phases. The judges commended the use of Grade 450 hollow sections to minimise the mass of the structure. Of particular note was the strong collaboration between the engineer and fabricator that minimised the amount of site welding required in this busy CBD location.

### PROJECT TEAM

**Architects:** Johnson Pilton Walker, Tanner Kibble Denton • **Structural Engineer:** Aurecon • **Head Building Contractor:** Grocon  
**Steel Fabricator:** Stilcon • **Steel Detailer:** Elmasry Steel Design and Detailing • **Coatings Supplier:** Dulux  
**Steel Distributor/Manufacturer:** OneSteel

## BUILDINGS – SMALL PROJECTS Wylde MTB Trail Shelters (Winner)



This project supports an active precinct for mountain bike and BMX riders within parklands. The designers maximised steel's loadbearing potential to create a shelter which dispenses with the need for a secondary structure. The continuous form of the tubular structural system of galvanized mild steel mimics the weaving and turning layout of the trail it services. The judges were captivated by the elegant simplicity of the finished structures and how they reflect the needs of the community and users of the Western Sydney Parklands through the innovative use of tubular steel sections and weathering steel plate. The attention to detail taken throughout the design, manufacture and installation of these structures delivered a striking asset.

### PROJECT TEAM

**Architect:** Group GSA • **Structural Engineer:** Fleetwood Urban • **Head Building Contractor:** Co-Ordinated Landscapes  
**Steel Fabricator/Detailer:** Fleetwood Urban • **Coatings Supplier:** Galserv • **Steel Distributor/Manufacturer:** Horan Steel, OneSteel

## ENGINEERING PROJECTS City Walk Bridge, Barangaroo



This project brought to life some tricky geometries for this new footbridge over an inner city street with a series of steel portals leaning slightly from one end of the bridge to the other and skewed in arrangement across the bridge like a fan. Escalators, stairs and lift access at one end are covered by those portals. It is designed with fully exposed structural steel including the gutter and downpipes which are embedded within the portals. The steel girders, deck and roof portals weighing 130 tonnes were transported in one length, 45 metres long, and lifted into position. The design was refined during the detailing process and then fabricated to exact tolerances.

### PROJECT TEAM

**Architect:** WilkinsonEyre • **Structural Engineer:** Arup • **Head Building Contractor:** Lendlease • **Steel Fabricator:** S&L Steel  
**Steel Detailer:** Elmasry Steel Design and Detailing • **Coatings Supplier:** Dulux • **Steel Distributor/Manufacturer:** OneSteel, BlueScope

## STEEL CLAD STRUCTURES Crackenback Stables



The entire form of this stable complex is clad in corrugated galvanized steel with weathering steel panelling employed at the end elevations, holding yards and breezeway spaces. The building's limited roof overhangs assuage weather issues in the exposed regional location such as snow and wind loadings as well as providing improved fire protection. Weathering steel was used to provide contrast to the building's corrugated iron shell. Cleverly hidden in the weathering steel façades are a series of concealed windows. The first floor eastern bedroom has an operable panel that flips up, allowing ventilation while not compromising the composition of the steel façade. A system of sliding custom perforated steel panels acts as hi-tech 'fly mesh' to allow air movement for the ground floor manager's residence.

### PROJECT TEAM

**Architect:** Casey Brown Architecture • **Structural Engineer:** Murtagh Bond Structuresburo • **Head Building Contractor:** Bellevarde Constructions • **Steel Fabricator:** GZ Engineering • **Steel Detailer:** GNZ Detail • **Metal Building Contractor:** Pre-Con Metal Roofing  
**Steel Distributor/Manufacturer:** Stramit Building Products

## Entrants

### BUILDINGS – LARGE PROJECT ENTRIES

- Aurecon** (5 Martin Place, Sydney)
- Enstruct** (80 Arthur Street, North Sydney)
- Brookfield Multiplex and Taylor Thomson Whitting** (50 Martin Place, Sydney)
- Built and Taylor Thomson Whitting** (20 Martin Place, Sydney)
- Lendlease** (International Towers, Barangaroo)
- Taylor Thomson Whitting and Allen Jack+Cottier** (Abbotsleigh Multipurpose Sports Hall)

### BUILDINGS – SMALL PROJECT ENTRIES

- Brookfield Multiplex and Taylor Thomson Whitting** (161 Sussex Street, Sydney)
- Bellevard Constructions** (Crackenback Stables)
- BRH Steel Constructions** (Old Clare Hotel Bar)
- DAM Structural Steel** (Mounties New Foyer and Porte Cochere)
- Danny Broe Architect** (North Epping House)
- David Mitchell Architects** (Waterloo Terrace)
- Fleetwood Urban** (Wylde MTB Trail Shelters)
- Francis-Jones Morehen Thorp and Taylor Thomson Whitting** (580 George Street Entry Awning)
- Hard Bakka** (RSL Western Terrace Extension)
- Hunter Galvanizing, Lake Macquarie BMX Club and Macquarie Manufacturing** (BMX Club Start Ramp)
- Mott MacDonald** (Kiln and Chimney Conservation)
- SHAC** (Hunter Valley Farmhouse)
- XXL Sheds** (Covered Open Learning Area)

### STEEL CLAD STRUCTURE ENTRIES

- Bay & Coast Metal Roofing** (Canberra University Sports Common)
- Casey Brown Architecture** (Crackenback Stables)
- Francis-Jones Morehen Thorp and Taylor Thomson Whitting** (Maritime Museum Waterfront Pavilion)
- Scott Carver** (Netball Central, Olympic Park)

### ENGINEERING PROJECT ENTRIES

- BG&E and Kerman Contracting** (Quattro Grain Terminal)
- Elmasry Steel Design and Detailing** (Holcim Lynwood Quarry Development)
- Elmasry Steel Design and Detailing** (City Walk Bridge, Barangaroo)
- Fielders** (SCG Spectator Pavilion)
- Fleetwood Urban** (Narrabeen Lagoon Multi-Use Trail)
- Micheal Fountain Architects and Taylor Thomson Whitting** (Sydney Boat House)



Maritime Museum Pavilion

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