

WESLEY HOSPITAL EAST WING

MANAGING CONTRACTOR : Baulderstone
PROJECT MANAGER : Aurecon
CLIENT : The Uniting Health Care Group
PROJECT END VALUE : \$102 Million
HEIGHT : Nine Levels
COMPLETION : March 2010
ARCHITECTS : PDT Architects
CIVIL / STRUCTURAL ENGINEER : Cardno Alexander Browne
SURVEYOR/QUANTITY SURVEYOR : Davis Langdon

NEW WING TAKES FLIGHT

The managing contractor on the design and construction of the Wesley Hospital East Wing, Baulderstone has been a trusted name in Australian building and infrastructure for over 80 years. Created from the union of two trusted names in Australian construction, MR Hornibrook, and AW Baulderstone, today the company also benefits from the expertise of their parent company, Bilfinger Berger, a global giant in both construction and infrastructure development. Today, Baulderstone is one of the largest building and engineering companies in Australia, employing over 1200 people across the country, with turnover in excess of \$1.5 billion.

Baulderstone's development of the Wesley Hospital East Wing focused on the design and construction of this new nine-story complex comprising a new day surgery and coronary care unit as well as the refurbishment of the main hospital's Ward B. The East Wing complex houses a day surgery floor of 42 beds, along with 120 acute care beds over four floors, as well as two floors of cardiac-vascular beds, doubling the current capacity of 58 beds, as well as a new coronary care unit. The value of the contract for both stages was \$102 million.

The company in its various guises has been integral in the construction of iconic buildings of local and worldwide significance including the UNESCO heritage-listed Sydney Opera House, Sydney's Anzac Bridge, Brisbane's Story Bridge, Melbourne's Etihad Stadium and Adelaide's Convention Centre. In addition to these well known buildings, Baulderstone have been integral in the construction of many types of infrastructures, and whether it is a road, bridge, power station, hospital or hotel, an airport or office park, their mission is to provide sustainable solutions that deliver more.

Baulderstone's commitment to sustainability is evident in some of the following construction and workplace practices, including renewable



energy use, water conservation, use of sustainable materials, protection of sensitive habitat areas, reducing paper usage, lower electricity consumption, video conferencing and educating the company's staff on 'greener' living practices in their own homes. They have been members of the Green Building Council of Australia since 2005 and were pioneers in building the first "Green" building in the country, the Henry Deane Building in Sydney's CBD, which was the first building to achieve 4.5 star SEDA for base building and 5 star SEDA for fit-out.

In 2007, the Combined Squadron Headquarters base at RAAF Richmond was the Commonwealth Government's Five Star Green Star building. This building received two prestigious industry awards for Baulderstone: the NSW Master Builders' Association's award for Excellence in Energy Efficiency and the national 'Environment and Energy Efficiency Building Award - National Commercial Project Valued Over \$10 million'.

The company regards the environment and sustainability issues as integral elements of their business, and are committed to best practice environmental management in all aspects of their operations. This matches the company's 'here-to-stay' business objectives and a long-term vision for the protection, management and sustainable utilisation of the environment.

Baulderstone is widely recognised for the quality and service excellence of their construction projects, founded on a proud history of hard work, commitment and innovation. Their adaptable and responsive approach to project planning and delivery encourages innovative problem solving. This is reflected in a strong commitment to partnerships and alliances and in the ability to identify innovative ways to achieve mutually beneficial outcomes.

Now in the 21st century, with a renewed focus and revitalised brand, Baulderstone is acknowledged as one of Australia's leading construction companies - one that continues to play a vitally important role in the nation's development.



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The Wesley Hospital



ARC'S NEW BRISBANE FACILITY

VIEW OF PINKENBA FACTORY SHOWING BOTH DOWN SHOP AND ACROSS SHOP BAR PROCESSING ARRIVING AT SINGLE LOAD ASSEMBLY POINT



STEMA PEDAX CADORMATIC SHEARLINE



PINKENBA SITE

PRECISION IN PLANNING

The planning consultants for the Wesley Hospital East-Wing development were Buckley Vann Town Planning Consultants. Operating in Brisbane and greater Queensland since 1992, the company has grown to a staff of 24, consisting of 19 planners and five support staff, with offices in Brisbane and Hervey Bay.

Buckley Vann provide a range of town planning services that assist in providing insight and knowledge to projects in both the public and private sectors, for clients large and small. Their specific role for the East Wing project involved the co-ordination, management and issuing of development (planning) approval for the project, as well as undertaking associated community consultation. Having a long standing relationship with The Wesley Hospital, through providing master planning and statutory planning advice and assistance, combined with their other hospital planning and development experience, made Buckley Vann the ideal choice to consult on the development.

The Wesley Hospital is located in an area not far from Brisbane city, but dominated by single detached dwellings, in the traditional timber style, as well as more recent medium density apartment developments. Due to this, one of the crucial elements of the project was the ability to manage the community's expectations and sensitivity to any further development of the site, as well as the associated traffic and visual amenity changes. As the hospital site is listed on the Queensland Heritage Register, the East Wing project would visually impact on the

heritage listed Moorlands House. Critical to a successful development approval, Buckley Vann was also responsible for negotiations with the relevant heritage authorities.

Buckley Vann has been involved in master planning projects for two of the State's largest private hospitals - The Wesley Private Hospital at Auchenflower and Greenslopes Private Hospital. These master planning exercises have involved developing centre concept plans for endorsement by the hospital client and Brisbane City Council. Major redevelopment projects requiring development applications to the Council have also been coordinated by Buckley Vann as part of, or subsequent to, these master plan projects.

For further information about how we can assist you in hospital or other planning matters, please call Liza Valks (Director) or Kristy Albrecht (Senior Planner) in the Brisbane office.

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If you could build one of Australia's safest and most efficient rebar processing plants, where would you start? For the Australian Reinforcing Company (ARC – formerly Smorgon Steel Reinforcing), their new reo bar processing facility at Pinkenba started with a factory visit in 2004 to SCR Riesa in Germany, because of its reputation as one of the most innovative rebar shops in Europe.

Four years later, in a culmination of innovative thinking, ingenuity, and uncompromising commitment to staff safety, the new Pinkenba facility was finally completed in 2009.

A far cry from ARC's previous bar processing plant located at Geebung, the new site is a perfect example of how ARC go to extraordinary lengths to maintain world benchmark levels of safety, efficiency and customer service.

With this criteria firmly established, STEMA/PEDAX was selected as a supplier of major bar processing equipment due to their knowledge, experience and capability world wide.

To meet the requirements of the Australian Standard for Safeguarding of Machinery, the technical specification provided to STEMA/PEDAX included the requirement to deliver an extensive and technically challenging fully integrated safety system, world class in its design.

Safety was not only a key design factor in the bar processing areas, but in the overall site design including "Traffic Management", where vehicles and

material handling equipment affect overall logistics and site movement.

The solution was the combined use of one way traffic flow; segregated activity areas; live traffic cameras, pedestrian lock out systems and exclusion zones for the safe loading and unloading of materials to prevent risk of human crush injuries.

Not only is the site efficient in terms of production and product flow, it is optimally located for more efficient transport and distribution. Being 5 minutes from the new Gateway Motorway and 15 minutes from the inner city precinct, the location allows ARC quick truck turnaround times from most construction sites in the greater Brisbane; Sunshine Coast and Gold Coast areas.

Today, the Pinkenba site represents a state of the art facility regarded as the finest in Australia, perhaps the Southern hemisphere, and an outstanding example of ARC's commitment to go to extraordinary lengths to look after its people and its customers.

ARC-THE AUSTRALIAN REINFORCING COMPANY

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GLASS FAÇADES

The Wesley Hospital East Wing project is a nine storey complex which includes a new day surgery and coronary care unit. The building includes the construction of a day surgery floor of 42 beds along with 120 acute care beds over 4 floors. The new building will also accommodate 2 floors of cardiac vascular beds as well as a new coronary care unit. The building, designed by PDT architects and constructed by Baulderstone is now complete.

The façade package for the building was awarded to G. James Glass and Aluminium in 2008. The scope of works for G. James encompassed providing the design, fabrication, and installation of the building façade, using both standard and customised products. This included the supply and installation of the external glazing, curtain walling, window walling, punched windows, automatic door systems and entrances, feature scarf and curtain wall corner in Alpolic cladding, internal jockey sashes with integral Venetian blinds and a customised strong-back window walling system. To achieve the architectural specific requirements, G. James Glass and Aluminium designed and engineered the systems uniquely for this project. This included horizontal sun shading devices connected to the façade, which were factory assembled and then site fixed to the façade panels prior to the installation. The majority of the facade was fabricated using pre-determined sizes - a practice which allows longer lead times for certain essential components, eg. the glass units.

The most prominent features of the façade would be the strong back feature beams that followed the slab edges, creating a characteristic recess detail to the otherwise flat curtain walling. This strong back system was installed first, and provided a spine for the windows that infilled the floors later on. The Alpolic detailing at the east elevation and the scarf on the north elevation have also provided texture to the design.

A highlight of the company's involvement on the project was the close and professional relationship between G. James, and the builder, Baulderstone. The Baulderstone project team were continually supportive and helpful throughout the whole project timetable and we received understanding

and constructive assistance from them as well as the client and architects during any developmental or site installation issues.

We thank Baulderstone for supporting our involvement in this project, our installation contractor and, importantly, all the staff at G. James involved in design, project management, factory production and site supervision.

G. James Glass & Aluminium is an Australian based manufacturer of building façade products and part of the G. James Group which directly employs approx. 2,500 staff. The company is fully integrated with its own in-house aluminium extrusion production and glass processing capabilities. These two important aspects enable a high level of control over the main supply chains. G. James has nearly 30 years experience in construction of large commercial façades and has continually demonstrated its expertise by meeting the ever challenging design aspirations of both the client and architect.

Window and door products and facade solutions from G. James Glass and Aluminium suit high-rise, office and apartment buildings, shopping centres, hospitals, industrial complexes and hotels. The commercial division also specialises in re-cladding and refurbishing existing windows, façades and curtain wall systems, as well as bi-fold and multi stacking door systems and balustrading. The company combines its own in-house design office and engineering services, with a comprehensive, highly skilled manufacturing and contracting operation.

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