



Flagship hospital for WA

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Perth's state-of-the-art Fiona Stanley Hospital has officially opened. Billed as the country's most advanced hospital, the two billion dollar project was Western Australia's largest-ever building infrastructure development.

The public hospital is 15 kilometres south of the CBD and nine kilometres east of Fremantle. The facility is a major tertiary hospital as well as providing health care services to both local communities and across the state. The final phases of construction finished in February this year with the opening of the Emergency Department and the Heart and Lung Transplant Services.

The Fiona Stanley Hospital is a 783-bed, 6,300-room development that combines the latest in cutting edge technology with design that blends seamlessly into the natural environment. With 150,000 square metres of floor space, the hospital occupies five main buildings, taking up the equivalent of four city blocks. The whole development is set in more than five hectares of natural bushland, landscaped parks, internal gardens, courtyards and plazas.

Construction included the main hospital building, pathology/education centre, central plant building, two multi-storey car parks and a service tunnel to the main hospital.

Project Owner

State Government of Western Australia

Architect and Project Superintendent

Hames Sharley Architects
Hassell Architects

Service Engineer

BG & E Consulting Engineers

Precast Manufacturer

Delta Corporation

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Each of these structures features extensive use of precast, chosen because it offers architectural finishes of various colours and textures that can't be achieved with conventional construction.

Delta Corporation was selected as the preferred precast specialist by the developer Brookfield Multiplex. Construction called for architectural walling panels for the project as well as Deltacore Floor Planks for sections of the main hospital building and central plant building.

Specifications for the precast architectural wall panels on the project were highly complex, with strict quality controls and meticulous finish requirements. At the same time, the rigorous project program demanded a high rate of production. Panels were wet-cast horizontally using high quality steel moulds.

A total of 994 custom architectural wall panels covering 7,151 square metres were required for the main hospital building's podium exterior, internal courtyards and corridor. Panels feature horizontal and vertical grooves, which create a semi-regular rectangular chocolate bar pattern with a high quality off-form cream finish. Randomly selected rectangles were also grit (sand) blasted to reveal a warm granite aggregate with red pebble highlights, to contrast with the rest of the panel. Given the busy hospital environment, easy care was essential. To reduce maintenance, panel surfaces were treated with a clear sealer for water and stain-proofing.

For the pathology/ education building, a different but complementary finish was selected. For this building 103 architectural cladding panels totalling 940 square metres were manufactured. With a blend of cream and grey cement, they featured a grit blasted finish to expose the granite, diorite and red pebble aggregate. These were also sealed ahead of delivery.

The Fiona Stanley Hospital has 3600 basement, ground level and multi-storey car parks. Two multi-storey car parks called for the use of precast. Striking white architectural wall balustrade panels were created using cream cement and white oxide for a high quality finish. More than 3,000 square metres of panels were supplied for this part of the project.