

# CONSTRUCTING A LANDMARK

Hutchinson Builders Expands Southern Cross University Gold Coast Campus

MAIN CONSTRUCTION COMPANY : Hutchinson Builders  
CLIENT : Southern Cross University  
PROJECT MANAGERS : Turner & Townsend Project Management  
PROJECT END VALUE : \$50 Million  
COMPLETION : February 2013  
ARCHITECTS : Woodhead Architects  
BUILDING SERVICES ENGINEER : Norman Disney Young  
STRUCTURAL / CIVIL ENGINEER : MPN Consulting



Just a few hundred metres from the beautiful Gold Coast beaches, in the grounds of the Gold Coast Airport, the Southern Cross University Gold Coast Campus is a master planned education precinct, with sustainable building, inspirational architectural design and cutting edge technology used throughout the existing and future campus buildings.

Designed as an iconic architectural centerpiece to the existing campus, the new building is 11 levels of off form concrete, prefinished aluminum feature sunshades and glass curtain wall facades.

“Building B” is the second stage of the campus and, with its 15000 square metres of floor area, there are clinical laboratories for nursing and midwifery, occupational health, physiology, anatomy and biomechanics, teaching and learning spaces, offices, computer rooms, meeting rooms, a student lounge and wellness clinic.

Designed with sustainability in mind, the building has extensive building shading systems and sensor activated lights to minimize power consumption and has an innovative underground rainwater collection system which will store water for redistribution to the bathroom amenities and garden taps for recycling. Further underground water storage systems are integrated with other buildings.

After a competitive tender process, with the ability to deliver to the required quality standards at the forefront of discussions, Hutchinson Builders were engaged in mid 2011 to construct this challenging building ready for use by the University for Semester 1, 2013.

During construction, strict environmental requirements were met through close coordination with the University and Airport to protect the wetlands adjacent to the site, and the building was arranged strictly in compliance with the Airport requirements for flight paths, given its location within the Airport grounds.

As one of Australia's oldest and largest privately owned construction companies, Hutchinson Builders is celebrating its Centenary and also its 10 year anniversary for the Tweed Heads office.

With over 1200 employees working on projects and in offices around the country, Hutchinson Builders is engaged in commercial, residential high-rise, mining and resources industry construction, infrastructure projects, industrial, health, sporting, government, retail, educational, hotel and club, tourism and civil works. With several modular construction facilities, Hutchinson Builders also supplies and installs modular buildings for student and resource sector accommodation and other remote areas.

Team Leader, Paul Hart commented: “The building is a landmark for the entire area - visible to the many thousands of visitors that pass through the Gold Coast airport and the Gold Coast Highway. Building B is an exciting expansion to the iconic campus that continues to thrive with students enjoying quality facilities and education and the sunny Gold Coast climate.”

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## ONEFORM IS ON FORM

Innovative in-house engineering with its own steel fabrication department, precast yard, concreting crew, structural engineering and drafting departments gave Oneform a distinct advantage with their most recent project, the Southern Cross University's Gold Coast Campus.

The master planned education precinct on the edge of Gold Coast Airport, with sustainable building, inspirational architectural design and cutting edge technology, showcases Oneform's unique solution-based approach to formwork with 11 levels of off form concrete, prefinished aluminum feature sunshades and glass curtain wall facades.

The 10-storey "Building B" is the second stage of the campus. 15000 square metres of floor area house clinical laboratories for nursing and midwifery, occupational health, physiology, anatomy and biomechanics, teaching and learning spaces, offices, computer rooms, meeting rooms, a student lounge and wellness clinic. The construction of the iconic new Building B met its timeline target and is now open to students for the first semester of 2013.

Impressive architecturally, the new building also notches up impressive specifications - 1430 tonnes of reinforcing steel and a further 152 tonnes of structural steel and 18000 tonnes of concrete were used in the construction process.

A significant achievement of this project was Oneform's use of self-climbing wall systems to give a class 2cx finish on detailed walls and columns and saving time on craneage by using a formwork hoist. Oneform's version of Peri acs-r, the acs-r1 for self climbing wall systems, was key to delivering the building on time. Fabricating all steel work and design inhouse allowed Oneform to upgrade the Peri system to the standard required for the unique challenges of the project.

Oneform has built an enviable reputation for being able to tackle projects that would challenge most formwork companies. Over the past 10 years, the company has worked on highrise, large commercial projects and off form projects, specialising in jumpform, self climbing screens and wall systems. With its own steel fabrication workshop, Oneform is able to engineer its own specialised formwork equipment to provide specific design solutions for any given project.

Sixty of the company's 150 employees who work on sites in Brisbane and the Gold Coast were involved in the project, with 30 on site at Southern Cross University. With senior management having a hands-on approach to all projects, a never-say-never attitude and commitment to innovation and continual improvement, Oneform is at the forefront of their field, providing innovative formwork solutions for even the most difficult and complex of multi level projects.

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