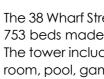
## **A CLASS OF ITS OWN**

**DEVELOPER : Student One** MAIN CONSTRUCTION COMPANY : Hutchinson Builders ARCHITECT : Arkhefield STRUCTURAL ENGINEER : ADG Structural CONSTRUCTION VALUE : \$80 million





Hutchinson Builders were responsible for the design and construction of the \$80 million Student One Accommodation project at 38 Wharf Street in Brisbane's bustling CBD. Taking the project through from documentation to delivery, the 39-storey, 753 bed development has been a challenging and exciting undertaking for the experienced construction company.

According to project manager for Hutchinson Builders, Joel Martin, the Student One apartments are a long term project, with the construction starting in December 2015.

challenging," Joel said.

took up a third of the site," he said.

With particular concern for the building's aesthetics, a Keim mineral paint finish was applied to all precast concrete, creating a stained finish and low-level opacity that allowed the natural texture of the concrete to show through.

Joel explained that the building uses a new and different aesthetic typology in terms of building style. Using a mixture of precast,





The 38 Wharf Street Student One Accommodation project will provide 753 beds made up of studio, executive, and multi-share apartments. The tower includes retail and recreation spaces, including an exercise room, pool, games room, as well as outdoor dining and lounge areas.

"The location of the site is very tight. It's on the corner of Wharf Street and Adelaide Street, which are primary arterials through the CBD. Logistically, it's been very

Generally the build was a typical concrete construction with post tension slabs. The vertical elements are predominantly precast, with the stair and lift core being conventional reinforced in-situ concrete. There was a monumental jump system on the project that

glass and aluminium, the facade is heavily articulated on the north side. "It has three layers of façade; being precast, using an aluminium rainscreen, and then with the glazed window wall units behind that. It's quite complex in its construction," he said.

In addition to its complex tower façade, the building has honed coloured precast panels which span three levels on the outer podiums, which proved an intresteing challenge for installation.

"Internally, the architect has adopted an industrial look, with exposed concrete soffits and galvanised sprinkler pipes," he said. To soften the building's industrial feel, the architect introduced touches of timber joinery, perforated ply ceilings, and signature pink and purple colours to add warmth to the space.

Being the world's tallest purpose built student accommodation tower to date, a number of employees and trades have contributed to the project. Joel estimated that site workers at the location peaked at 170 persons on a per day basis. "Across the duration of the project, in excess of 1,500 people have worked on the job." he said.

Having built largescale residential, industrial and commercial structures since 1912, Hutchinson Builders is one of Australia's largest and longest running privately owned construction companies, working on over 250 projects on an annual basis. Joel said that a number of projects are currently underway, with two of the most exciting being the Student One Accommodation, and the Spire Apartments project, which is located on a site just across the road.

"Our main state for construction is Queensland, but we do have a good national exposure," Joel explained. "If you look across the Brisbane horizon, the blue Hutchinson cranes popping up are a testament to how the blue machine operates in Brisbane."

For more information contact Hutchinson Builders, 584 Milton Road, Toowong QLD 4066, phone 07 3335 5000, fax 07 3335 5005, email info@hutchinsonbuilders.com.au, website www.hutchinsonbuilders.com.au

## MAKING THE GRADE

MCD Fire Engineering provided accredited fire safety engineering solutions to the 38 Wharf Street Student One Accommodation project. With 41-storeys and space for 750 residents, the large scale project required innovative techniques and a collaborative approach.

Taking responsibility for the project was Mark McDaid, MCD Fire Engineering's Founder and Director. "It's a highly performance based building," Mark explained. "Being the director and registered fire engineer, I worked on it solely due to its unique design challenges."

Mark said his work was solution driven, and innovative. With apartments designed as 'clusters', six bedrooms open onto common living spaces. "In Australia, the concept of not fire separating the bedrooms in the student cluster is relatively new. Under the Building Code of Australia strict DTS provisions, bedrooms need to be totally fire separated."

To address this, Mark explained that bedrooms and common spaces were designed with enhanced fire safety systems. "If the code required a certain safety level, we designed to an equal or superior level for sprinklers, detection, alarms, emergency lighting etc. The Building Certifier accepted the design to be equal or higher than the BCA's strict DTS means of compliance," Mark reported.

Rather than using a stair pressurisation system, MCD adopted an open access balcony approach, allowing any smoke to dissipate rather than entering the stairs. "We weren't relying on a mechanical system, so there's less risk of it failing - a balcony acts as the ventilator," Mark explained.

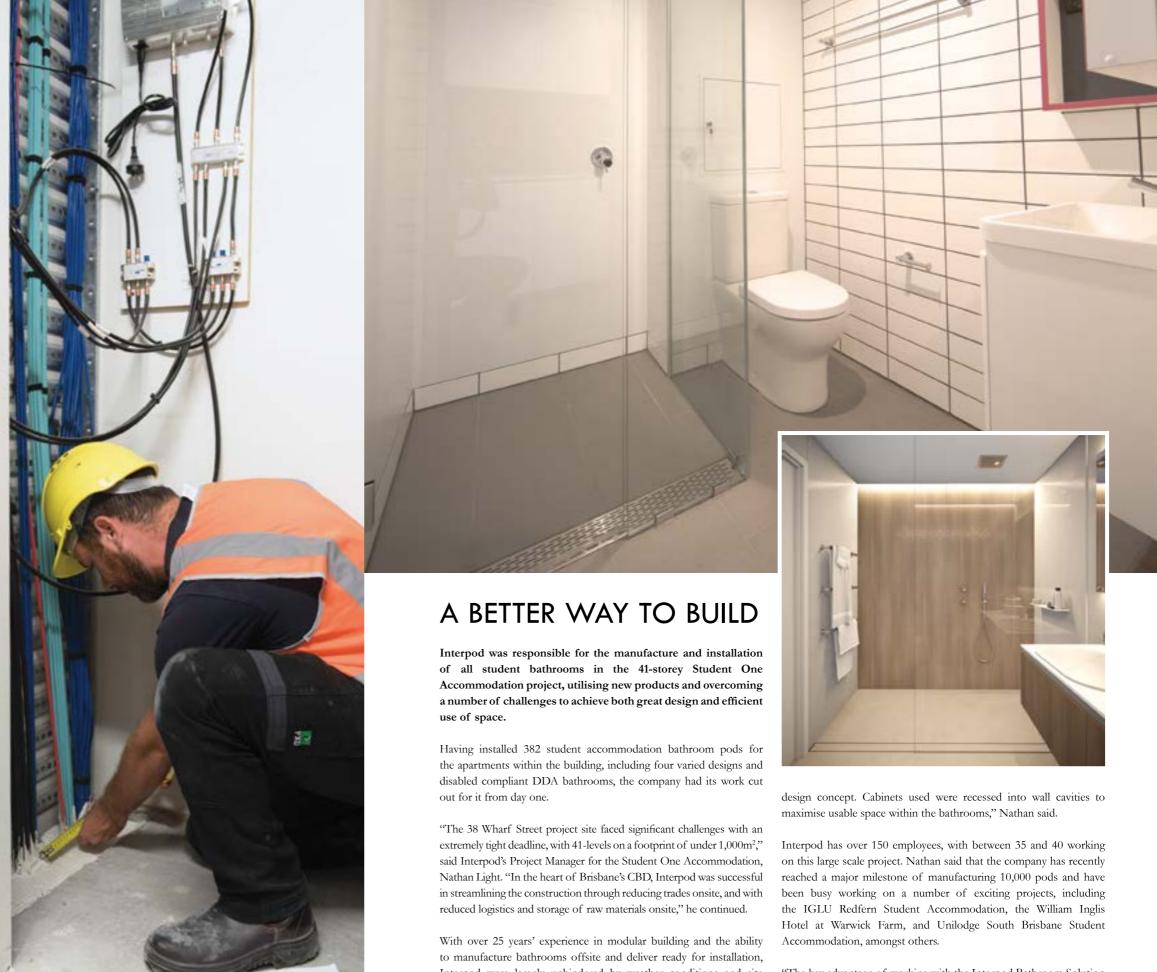
Mark attributes part of the project's success to his international experience in this field but most notably in this case, client engagement. "The end user isn't always involved at design stage, but they came to meetings and gave feedback. It benefited the whole process," he said.

MCD Fire Engineering is also working on similar projects across Brisbane and also as a court appointed expert on building defects and non-compliances.

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Interpod were largely unhindered by weather conditions and site "The key advantage of working with the Interpod Bathroom Solution access. Furthermore, the company made intuitive use of space in the is the way that we listen, partner and deliver," Nathan added. bathrooms, using products that were fit for purpose.

"This project utilised a skirting tile in conjunction with Interpod's Astron Designer Panel System to achieve the modern architectural

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development posed. "The difficulty in the project was working in the city environment and working with large technical external finishes like concrete stains. It's not your typical external paint finish you'd find down at Bunnings," explained Aaron Sarri, Owner and Director of Sarri Painters.

The 35-storey building, high wind levels and unpredictable weather, made the external staining and painting particularly problematic. Having worked on similar projects in the past, Aaron said the company are able to navigate the high areas with a relative degree of ease.

Having traded in the commercial painting industry as Sarri Painters for 34 years, and with roots dating back to 1951, the company and its staff are well placed for large scale commercial projects such as this. With employee numbers fluctuating between 80 and 100 employees depending on demand, the company assigned 15 staff members to the project to complete large areas of painting and concrete staining.

Sarri Painters has a long standing relationship with Hutchinson Builders, working together for 18 years, with 38 Wharf Street the latest in a long

list of successful projects and Aaron and the team are looking forward to seeing the final results. "We haven't finished, we're only about a third of the way through. We expect to finish by the end of 2017," he said.

The company is also currently working on the Sunshine Coast University Hospital and the Ivy and Eve apartments in Brisbane. The company's preferred projects include large commercial developments and landmark projects.



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