

DECEMBER 2020

RONDO®

# insider

SHELLHARBOUR CITY COUNCIL  
NEW SOUTH WALES

FRANCE STREET  
NEW ZEALAND

MELBOURNE SQUARE  
VICTORIA

AND MORE...

PLUS:  
NEW PRODUCTS INSIDE





NEW PRODUCT

# RONDO CERT-R-FIX®



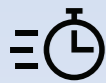
- SAFETY CRITICAL APPLICATIONS
- CRACKED CONCRETE
- SEISMIC APPLICATIONS
- FIRED-RATED APPLICATIONS



Fully code compliant range of fasteners complement our wall & ceiling systems



Offers a single point fastener 40mm embedment solution backed with an ETA



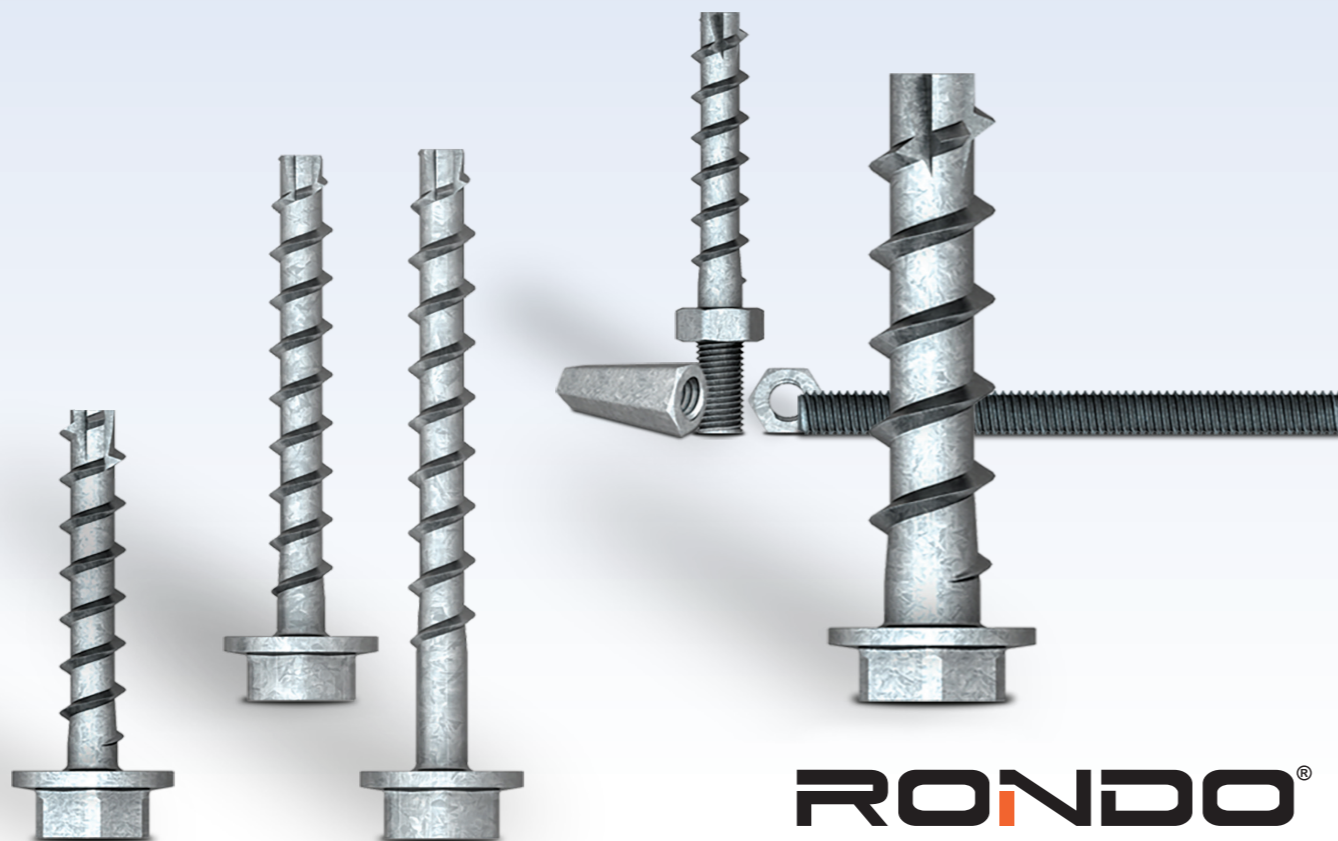
6mm ETA certified fasteners are faster to install than 8mm fasteners – speeding up installation time and reducing labour costs



40mm embedment depth means that the concrete slab doesn't need to be x-rayed in most applications



10mm fasteners complement our head and base brackets, suitable for Steel Stud, MAXIjamb® and DUPLEX Stud® profiles



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### PROJECTS:



MELBOURNE SQUARE  
Victoria



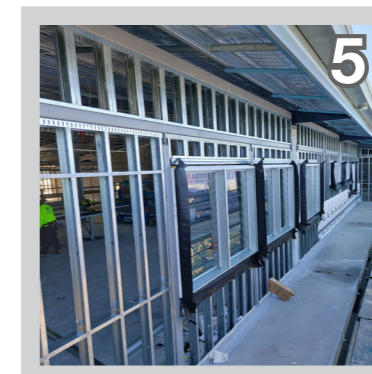
PERTH MUSEUM  
Western Australia



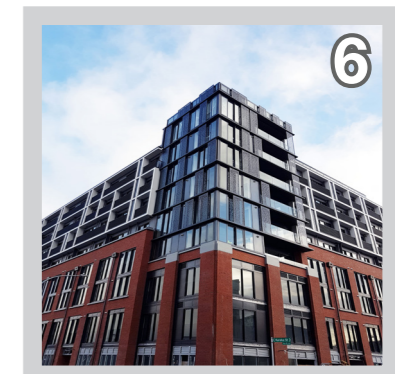
VANTAGE POINT APARTMENTS  
Western Australia



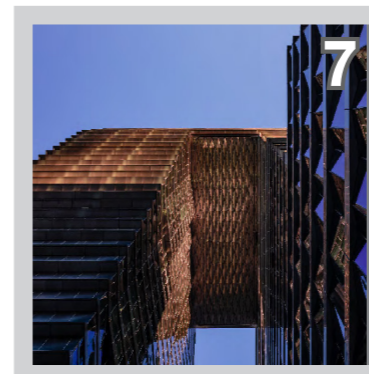
SHELLHARBOUR CIVIC CENTRE  
New South Wales



BURPENGARY COLLEGE  
Queensland



FRANCE STREET  
New Zealand



COLLINS ARCH  
Victoria



THE TOWERS & RITZ CARLTON  
Western Australia



BULLCREEK  
Western Australia

### UPDATE:

NEW PRODUCTS INSIDE

2, 21



**RONDO®**

SEASON  
GREETINGS  
AND BEST WISHES  
FOR THE  
NEW YEAR



Warm Wishings  
Rondo Building Services





# ONE-WAY ERECTED WALL SOLUTION AT THE STUNNING MELBOURNE SQUARE

Melbourne Square is set to be one of the largest developments in Victoria's history, comprising of 6 towers (4 residential, an office and a hotel) on the 20,260m<sup>2</sup> site.

To kick off the project Rondo provided a Design R Specification to Multiplex for the lobby ceiling and external walls. The design criteria detailed the building as 'Importance Level 3' and therefore, required seismic considerations and also had a maximum wall height of 5 metres.

Wall and ceilings Contractor, Express Interiors, was awarded the project, and together we were able to streamline the installation process, with frequent site visits being made before the COVID-19 Stage 4 Restrictions were introduced.

Like many buildings, a shaft is used for mechanical services enabling them to pass from one level to the next. The lining for a shaft can only be installed from one side, while still needing to meet requirements for fire and acoustics.

To meet these specific requirements, a Shaft Liner System was installed which incorporated steel components from our Rondo SHAFTWALL One-Way Erected Wall System. The Rondo CH-Studs are designed to hold the Shaft Liner in place and provide the correct distance from the Shaft Liner to the plasterboard, presenting a clean straight face to fix the plasterboard to. Rondo's SHAFTWALL System complemented the Shaft Liner in providing a solution that is easy, safe and fast to install.

Once complete, Melbourne Square will be an attractive destination to locals and tourists. However, during construction, it will create employment opportunities throughout multiple stages of the project and boost the local community in what has been difficult and uncertain times.

Rondo products included:

- Steel Stud & Track Wall Framing System
- Quiet Stud® Acoustic Wall System
- Shaftwall One Way Erected System



# STRONG WALLS FOR PERTH'S NEW IMPRESSIVE MUSEUM



A recent 'Get The Bigger Picture' initiative gathers HASSELL+OMA Architects and Multiplex to design and build a world class destination. WA State Government's hopes to showcase its heritage with iconic state collections in a new and modern facility.

Working with the ceiling and wall contractor, Ceilcon, Rondo provided the internal wall designs which required more complex and specialised solutions due to the weight of artworks, the height of the walls and the necessity for maximising the allowable floor space of the gallery.

To overcome the challenge of achieving wall heights between a big 6-9 meters, within the limited wall space were internal stud frame walls needed to be no greater than 92mm, and to accept potential loadings of up to 100kg that could supported 500mm off the wall, Rondo Engineers understood the challenge and designed a stronger

steel wall frame using the Rondo MAXIjamb® members as a studs, which are produced from hi tensile steel with a base metal thickness of 1.20 for added strength.

The Museum was categorised as 'Building Importance Level 3' which therefore required seismic loading to be considered. For the ceilings, Rondo Engineers designed our KEY-LOCK® Seismic Ceiling System to support the BASWA acoustic ceiling system. Plenum bracing solutions were introduced in many areas of the project due to the seismic design requirements.

Rondo had an early technical involvement with a long-term Rondo customer, Ceilcon, and throughout the project Rondo helped onsite to overcome challenges while providing services and solutions in collaboration with the ceiling and wall contractor and the project design team.

Rondo products included:

- Key-Lock® Suspended Ceiling System
- Steel Stud & Track Wall Framing System
- MAXIframe® External Wall Framing System
- Exangle® Plastering Bead
- PANTHER® Access Panel

# LUXURY APARTMENTS BACKED WITH LUXURY PRODUCT

Vantage Rivers Edge Apartments is a resort style luxury building set on The Swan River, with Rondo supplying wall and ceiling framing into the project. Hillam Architects delivered an extravagant design and Builder, BGC Construction carried out the project back in July 2018 and engaged Contractor, Top End Ceilings, for the Wall and Ceiling package which included 13 levels plus basements.

Rondo has a long-standing relationship with Top End Ceilings as well as Rondo Partner Network distributor, Planet Building Products, who supplied the project.

For the internal walls, to achieve the projects' 2.9 metre wall heights Rondo 64mm Steel Stud and Track was installed at 600mm centres on all Levels. There were fire-rated requirements for the walls in hall and intertenancy locations of which Rondo 64mm studs were installed in conjunction with GTEK linings.

Not only great for ceilings, Rondo Furring Channels can be used with adjustable BG01 clips for battening out irregular walls and getting them ready for fixing of the lining boards. Rondo 308 and 129 Furring Channels were installed for this such reason in some Hall and Elevator Shaft Locations.

Our Suspended KEY-LOCK® Concealed Ceiling Grid System was chosen for installation of the internal ceilings in each apartment as is easily adapted to incorporate small bulkheads drops of less than 1200mm's in locations such as kitchens. As the linings were typically 10mm Plasterboard a 1200mm x 1200mm grid configuration was installed which was fixed from concrete.

Rondo products included:

- KEY-LOCK® Concealed Ceiling System
- Steel Stud & Track Wall Framing System
- Masonry Wall Battens





# SHELLHARBOUR CIVIC CENTRE

The multi award-winning Shellharbour Civic Centre is a \$60-million dollar redevelopment designed by Sydney architects DesignInc (with Lacoste and Stevenson), and constructed by Builder, ADCO Constructions and Contractor, Interior Works.

Rondo were engaged early in the project to offer expert design support, with our Technical Sales Representative, Max Dessmann, providing preliminary designs to Interior Works for internal partitions and external wall framing to library, auditorium and office areas. Rondo also completed designs for fire-rated bulkheads, internal ceilings, curved walls and external soffits

Level 1 of the Auditorium required an external wall that could accommodate the wind loading associated with the open roof area and to do so, Rondo Engineers designed two x 92mm Steel Stud External Walls to be installed side by side. The wall design also included a boxed stud connection for the top of the stud walls to underside structural at 600mm centres.

Wall heights in these areas were up to 4.6 metres in height, with the top track support underside purlins at 1200mm spacing. Some walls were then completed using Rondo 92mm x 1.15bmt installed at 450mm centres, and in the same area, there were curved walls requiring Studs to be installed at 150mm centres.

In the Auditorium Library there was a requirement to design an external wall to accommodate structural steel bracing. There was a preference for installing 64mm x 1.15 Steel Studs externally at 600mm centres which were to be clad with span H/240 sheet lining. To accommodate the design criteria, Rondo provided a specification using bridged 64mm studs whereby the internal wall used the external wall for bracing support and achieved wall heights of up to 4.3 metres.

There were two external soffits requiring design, the first adjoining the main entry and the second needing to accommodate architecturally designed aluminium “matchsticks” to the curved elevation. The external soffits framing was achieved using Rondo Steel Studs acting as both Stud Droppers connected to the Steel Purlins with Rondo 201 Bracket and as ceiling joists which Rondo Top Hats were installed into.

Other designs needed to solve the complexity of crossing over between material, changing from different deflection rates, weights of cladding and different fixing methods. The roof structure was constructed from purlins, which means a greater deflection and that any member spanning between the slab and the roof structure needed to account for this larger deflection.

At some points this complexity formed a challenge. An example of this is where the aluminium sheets met with an aluminium post, neither of which were Rondo products but Rondo was still able to provide a solution detail at the joint of these members. Rondo Deflection Head Track was designed to accommodate the vertical movement between the roof purlin and the aluminium post which was connected to the slab.

Being a spectacular project with many architectural features, there were some more complex design issues to address during the build not only externally, but internally as well. One of which was the internal ceiling design, which required a flow like wave ceiling and curved walls that extend close to the length of the building. The waved ceiling used the Rondo KEY-LOCK® Concealed Ceiling System to form the structure while offering the flexibility to make changes in height.

The curves of the building used more than one Rondo solution to create the look, with the main product being the use of our Flexible Track. Rondo Flexible Track can be bent to the radius that is required whilst still providing a straight area for the stud to be fixed to the track, making the task of creating a radius much simpler, and at the same time, still providing a structure for the steel studs.

The design of bulkheads was also required, which included an internal bulkhead to be located above the windows and below the structural steel purlins. The bulkhead was framed using Rondo 150mm and 92mm Steel Studs which acted as the bridging, bracing, restraining and dropper Studs, and were complemented by the Rondo 201 Bracket with 92mm Track. The finished bulkhead was 800mm high and up to 6800mm long and lined both sides with 13mm of Plasterboard.

Rondo products included:

- Key-Lock® Concealed Suspended Ceiling System
- Duo® Exposed Grid Ceiling System
- Steel Stud & Track Framing System
- MAXIframe® External Wall Framing System







# SEISMIC FRIENDLY SOLUTIONS FOR NEW QLD SCHOOL

As part of the “Renewing Our Schools” initiative, the Queensland Government is investing \$235 million to upgrade school infrastructure across the state. Burpengary State Secondary College is 1 of 26 institutions that had been selected for a new \$2 million modern learning facility, which Rondo helped bring to life in September 2020.

Rondo was engaged alongside Contractor Square Set, Builder Paynters, COBiE Architects and Engineering Consultancy Lambert & Rehbein, to achieve the Department of Education’s specific requirements.

Rondo provided technical designs prior to the project’s tender stage to allow Contractors to provide a more accurate estimate of the work required, and Rondo’s Technical Representative, Andreas Koepke, also collaborated with Darren Williams at Square Set to establish a plan and make up for lost time in February after a month of rain.

The project was categorised as Building Importance 2, and therefore, it had a requirement for seismic design. Two of our Seismic Ceiling Systems; DUO® Exposed Grid and KEY-LOCK® Concealed Grid Ceilings were installed to ac-

commodate the seismic loads. The internal ceilings used a perimeter fixed/free seismic solution where in a seismic event the ceiling will move with the wall on the fixed end and move independently from the wall on the free end to ensure the ceiling is not pulled apart or crushed by the walls.

Our Technical Engineers needed to produce drawings that accommodated high wind load resistance, with the designs suitable for 2.3kPa. The external soffit solution involved Rondo Steel Stud and Top Hats as the grid frame, and Steel Stud also installed as bracing and downstruts.

Due to the structural design of the building there were multiple wall heights that required Rondo to provide a minimum and maximum spacing guide. Rondo provided this along with MAXI-Frame® External Wall Framing design for openings. This was achieved through Rondo MAXI-track®, a slotted Deflection Head Track and 92mm stud (1.15bmt).

Rondo products included:

- Key-Lock® Concealed Suspended Ceiling System
- Duo® Exposed Grid Ceiling System
- Steel Stud & Track Framing System
- MAXIframe® External Wall Framing System





# RONDO BOOSTS 59 FRANCE TO THE MAXI WITH STRONGER

A striking range of premium and luxury apartments have hit the Auckland market at 59 France St, Auckland. The team at Paul Brown & Associates (PB&A) and Rondo Building Services collaborated to facilitate a detailed design that addressed several complex design issues for the façade and external soffits, as well internal walls and ceilings. Rondo's focus was on providing design solutions that combined compliance to Seismic and Wind Codes while offering construction efficiencies for the Contractor, Livefirm Construction. Rondo partnered with external engineers BVT Engineering Services to provide PS1-PS4 design certifications.

For the façade, Rondo engineers focused on leveraging the capabilities of Rondo MAXIframe® External Wall Framing System as it could accommodate the oversize openings in the façade and offer the benefits of both strength and build efficiency whilst addressing the non-combustibility requirement from council.

The external soffits were constructed using Rondo Top Hats which are often used in a higher wind load scenarios or where heavy-duty sheeting is to be installed. A range of Rondo components were used as a solution for the loaded walls and to create, bulkheads, blind boxes, and lighting tracks, thus minimising the range of different material required on site by the contractor.

When it came to the internal walls, a combination of 64mm and 92mm Steel Studs, and GIB® Rondo QUIET STUD® Acoustic Studs were designed and installed with a view to maximising internal floor space in each apartment without compromising performance. A standard stud section conducts vibration across its web, promoting sound transmission across spaces.

Due to the proprietary shape of GIB® Rondo QUIET STUD® sound (vibration) is discouraged from travelling in a direct path from flange to flange, hence drastically =increasing the STC performance of the wall. By offering a single stud & track framing arrangement, GIB® Rondo QUIET STUD® is a much more effective

solution to install on site, when compared to typical staggered stud framing arrangements.

Ceiling design and application included Rondo KEY-LOCK® Suspended Ceiling System to meet Seismic, Wind and Gravity requirements and included both 'Fix & Float' and Braced engineered.

Rondo's Technical Sales Team in partnership with BVT Engineering Services provided onsite assistance to Paul Brown & Associates, Livefirm and CMP Construction for the duration of the project, accommodating design changes and effectively deal with onsite issues which required adaptations. The result is a statement building in a much sought-after zone of Auckland and a key part of the Urban Collective property portfolio.

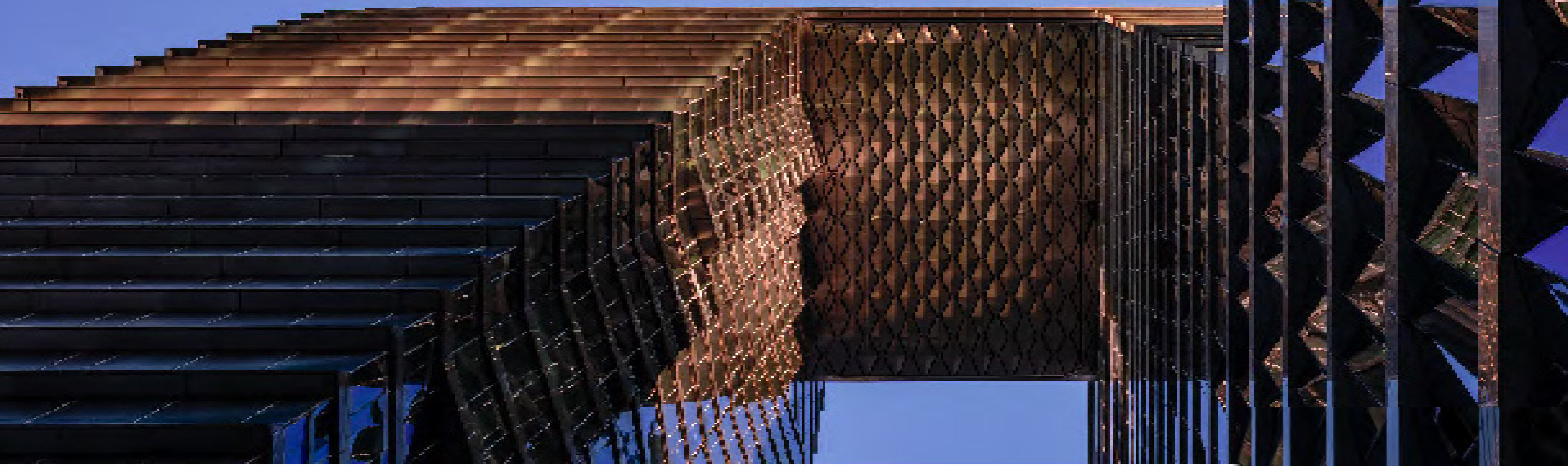
Rondo products included:

- Key-Lock® Suspended Ceiling System
- Steel Stud & Track Wall Framing System
- Quiet Stud® Acoustic Wall System
- MAXIframe® External Wall Framing System
- Top Hats





# WALL & CEILING SOLUTIONS FOR THE NEW PANTS-SCRAPER



What is often referred to as the 'Pants Building' due to its shape, the \$1.2 billion dollar development incorporated Rondo Wall and Ceiling Solutions and will soon become the most iconic twin tower set in Victoria's CBD.

Rondo was first engaged to provide a Design R specification to Multiplex for the hotel and apartment, and then supporting Contractor, Expoconti, for supply and installation. Our Design-R specifications include customised wall and ceiling technical drawings which are specific to each projects' requirements and provided at the early design stage.

Both seismic and high wind loads were taken into consideration when designing the 34-storey twin building, incorporating Rondo MAXIframe® Wall Framing System used internally for large windows and door openings.

As the internal walls in all amenity areas and lift lobby foyers had stone cladding, Rondo needed to design a wall framing system which had the strength to hold the heavier loads. Rondo specified our 92mm DUPLEX Stud® which has a greater load carrying capacity than a traditional steel stud. Party walls in the project were fire rated and incorporated Rondo Steel Stud and Track and in other parts of the building, our acoustic wall system, QUIET STUD®, was featured.

Our Rondo XPRESS® Drywall Grid Ceiling System was also used, which is a popular choice for corridors. Being a busy area, services run along the ceiling and into each apartment while still being separated making spacing difficult to hang a ceiling. By using the larger spans of the XPRESS components XDWS and XDWH, it allows a wall to wall span to be achieved while not being suspended from the structure above.

During the initial stages of construction our Rondo Technical Representative, Tino Cucinotta, was meeting onsite 2-3 times a week to discuss any queries Multiplex and Expoconti had, to ensure work continued at a steady pace.

Rondo products included:

- Key-Lock® Suspended Ceiling System
- Xpress® Drywall Grid Ceiling System
- Steel Stud & Track Wall Framing System
- Quiet Stud® Acoustic Wall System
- DUPLEX® Internal Stud Framing System
- MAXIframe® External Wall Framing System



# THE TOWERS & RITZ CARLTON

The Towers and Ritz Carlton project sits proudly at the water's edge of Elizabeth Quay as a new edition to the Perth skyline. Cementing Perth CBD as a hotspot for tourism and entertainment.

Architect Cottee Parker and Builder Probuild engaged Rondo in the early discussions regarding preliminary designs and specifications on the framing requirements. Rondo Engineers were required to factor in high wind loads in our Design R Specification, due to the location of the project.

The Ritz Carlton has a luxury reputation and with that means a spectacular build. One of the many key features is a stone ceiling to the ground floor area. The stone weighed 50kg per m2 and therefore, there is an extra load that needs to be accommodated for on the ceiling framing system to achieve this grand design. Rondo engineers designed a Steel Stud Ceiling System that has the strength to achieve and support this ceiling load, which is our ceiling system of choice not only for internal ceilings with higher loads, but also for external soffits. Our KEY-LOCK® Suspended Ceiling System was also used as the suspended ceiling of choice providing support for feature ceiling linings.



Working with the wall and ceiling contractor Express Interiors, Rondo engineers provided several project designs throughout construction. A combination of Steel Stud, QUIET Stud®, MAXIjamb® and Stud and Track were installed to this intricate and large-scale impressive project. Wall and ceiling contractor ANWEST installed Rondo stud framing to curved parapet wall areas to the roof level, which required specific design to achieve what was required. Rondo Top Hat framing was designed and installed to steel structure I beam columns to provide framing for linings. Top hat framing was also required for the Kimberley stone finishes prominent to the podium level areas to the Ritz Carlton.

To finish the walls and ceilings and assist in straight and neat corners, Rondo's EXANGLE® Plastering Beads were used through this project. Not only do our plastering beads help with the finished look, but as superior beads, they also help protect the corners from damage and cracking which is especially important in a high traffic areas of the building. Our EXANGLE® range covers both internal and external corners as well as achieving features with our Shadowline Bead.

Regular site visits were conducted by Rondo Representatives to assist the project team and contractors throughout the construction stages. The site involved some delivery constraints and challenges, however Rondo customer service and distribution worked closely with the Contractor on deliveries and product requirements.

Rondo products included:

- Key-Lock® Concealed Suspended Ceiling System
- Steel Stud Drywall Ceiling System
- Steel Stud & Track Wall Framing System
- MAXIframe® External Wall Framing System
- QUIET Stud® Acoustic Wall System
- Shaftwall One Way Erected System
- Exangle® Plastering Beads
- Top Hats



# CONCEALED THE 'CREEK' WITH RONDO KEY-LOCK®

Designed by Cameron Chisholm and Nicol Architects, RAAFA Bull Creek is a 7-storey retirement living complex with 57 apartments and a ground floor clubhouse facility. The project was commissioned to meet increasing demand in retirement living, with Rondo engaged to provide internal and external Wall systems, Ceilings, Finishing Beads and Top Hats.

Contractor, Metrex Wall and Ceiling Specialists, engaged Rondo in the early stages of the build to ensure the project achieved a detailed and high-quality finish. Rondo's Technical Design Team provided internal wall designs, which required a wall framing solution that could support the loads required for the floating vanities installed on the ground floor. To achieve this, Rondo boxed 92mm 0.55bmt Steel Studs were installed at 450mm centres with 1 row noggings as per Rondo Engineered Design #6055-19-003.



As for the external walls, Rondo provided external wall and opening design #6055-19-001a for wall heights of up to 4 metres. This was achieved using 92mm MAXIframe® members in conjunction with heavy gauge 92mm 1.15bmt studs. Centres varied based on wall heights and wall location. Then sealing corners with Rondo P01, P26 and P50 Exangle Beads for internals. These were particularly useful for the feature wall and ceiling locations.

The project needed to achieve specified fire-rating requirements which led to Rondo's fire-tested ceiling system, KEY-LOCK® Concealed Ceiling System, to be selected as the ceiling system installed throughout the building. KEY-LOCK® is our most popular and superior ceiling system as it is suitable for fire-rated applications, as well as being able to achieve acoustic and seismic requirements – it's an all-round high performing system. While Rondo H535 Top hats were installed to support the External Equitone Cladding.

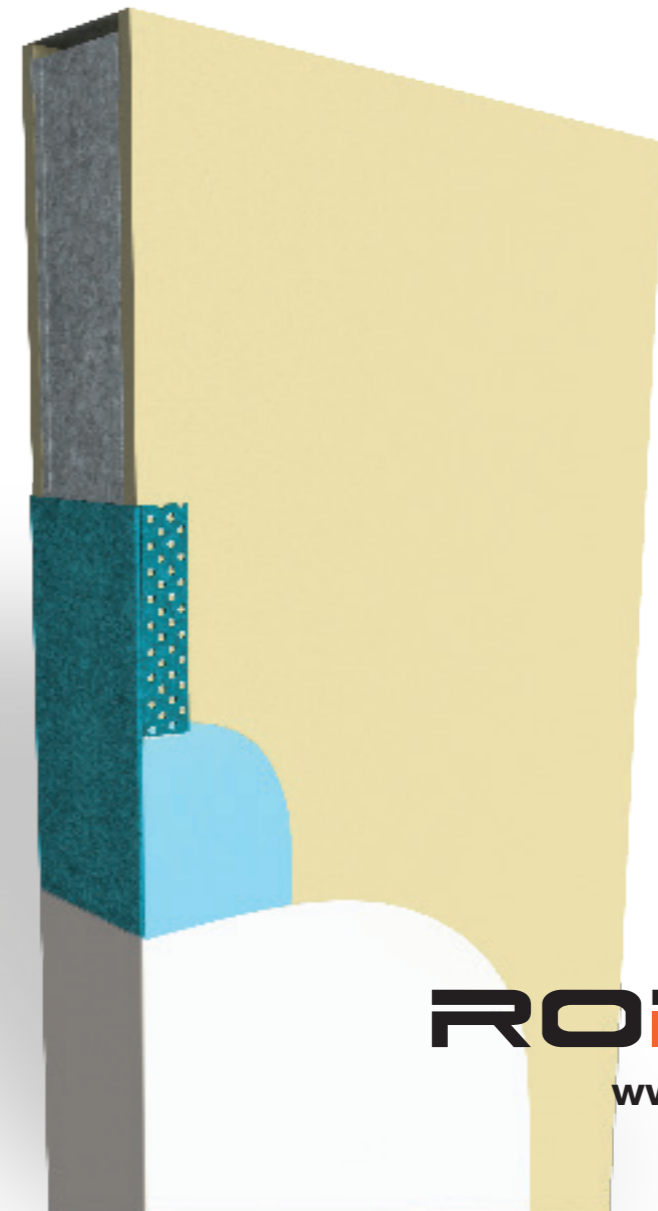
Rondo products included:

- KEY-LOCK® Concealed Ceiling System
- Steel Stud & Track Wall Framing System
- EXANGLE® Plastering Beads
- Top Hats

NEW PRODUCT

# THE END THAT CAPS IT ALL

CAP INTERNAL PARTITION WALL ENDS, CAVITY SLIDER DOORS, INTERNAL BALUSTRADES AND WINDOW OPENINGS.



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THE RITZ-CARLTON

RONDO®