RANDWICK RACING TOWARDS THE FUTURE

Royal Randwick Racecourse and spectator precinct is a five level grandstand that combines sporting with unparalleled entertainment options.

ROYAL RANDWICK RACECOURSE / AUSTRALIAN TURF CLUB & WOODS BAGOT
It is always something of a gamble to change an icon. In the case of Royal Randwick Racecourse, the Australian Turf Club’s bet has certainly paid off, with the venue now reflecting its pedigree as the heart of Sydney racing.

The redevelopment included a complete structural and interior makeover for the pre-existing QEII stand, a new Owners Pavilion, refurbishment of the Paddock Stand, improved linkages and connectivity between spaces and an all new ‘Theatre of the Horse’ (TOTH) amphitheatre and parade ring.

The 4,500 capacity TOTH amphitheatre allows racegoers to watch the horses both before and after the races, either up close in open standing and seating decks, or from the wide terraces and extensive glazing of the new stand. A tunnel through the stand’s basement connects the TOTH to the track.

“The key issue we had was the QEII stand was in absolute need of an upgrade,” explained ATC Executive General Manager – Property Development, Mark Flanagan.

“In its day, Royal Randwick was one of the top racetracks in the world. One of the criteria set by the previous ATC Chairman and then Vice-Chairman was to bring Randwick back up to an international profile. In the early design stages we undertook a study tour which included Royal Ascot in England, Hong Kong, Singapore and Japan, and we have taken inspiration from the best ideas at those racetracks.

“Our priority was to get as many spectator seats inside as possible to minimise the effects of bad weather on racegoers, and we achieved that, with over 80% of the seating now inside. We also wanted a diversity of dining spaces to allow us to achieve pre-bookings of spaces like the new tiered dining areas on levels one and three.

“ATC can generate new income and guaranteed income, for example with the corporate boxes on level two and four, a new thing for Randwick, which are on three-year leases. One of the other criteria was being able to activate the spectator precinct seven days a week for non-racing events.

“There is always a tension with racetracks between facilities for the horses and the track, and spectators. This redevelopment had support from all the stakeholders, including two very supportive boards, members, the jockeys, the Minister, Racing New South Wales and the breeders.

“A lot of thought was put in by architects Fitzpatrick + Partners (base building) and Woods Bagot (fitout, interiors), and there was good integration between the two. Though it’s been benchmarked against the best in the world, there is not a lot to compare it to. The level of finish is very high – it’s not your typical racetrack, it’s more like a hotel or high class venue.” For Woods Bagot Principal Wade Little, the central theme for the whole project revolved around the idea of Randwick as a social destination, with a ‘highly crafted’ response and unique level of finish and detail.

“We asked, ‘what is the key thing that ties this together?’ And for us it is that everyone who comes will be in the best clothes that they own,” said Wade. “This is a fantastic venue for the people of Sydney to come and enjoy for a full day of getting dressed up and being entertained.”

The stupendous new Royal Randwick grandstand and surrounding spaces have a combined capacity of 55,000 people, and these massive crowds exist in a state of flux. On race days, there is a race every 45 minutes, which leaves considerable time when the action’s focus shifts to the betting areas on the ground floor, which booms both local and interstate bookmakers; to the food and beverage offerings to the TOTH; and to the sweeping terraces on the south western elevation which overlook Centennial Park and the city skyline beyond.

Designing for these shifting swells of people meant creating a very open ground floor space for the betting areas, clear connectivity between the different levels, and spaces which flow seamlessly through different aspects of the racegoing experience.

The design theme evolved from the concepts of fashion, patterns and fabrics, with a palette of black, white, shades of caramel, and FSC-certified timber veneers. Australian-made products feature throughout, including carpets made to Woods Bagot’s designs, bespoke furniture made in Sydney, and all local joinery.

Sustainability was made a priority, with ATC aiming for a standard equivalent to Four Star Green Star. Initiatives include extensive use of natural light, rainwater harvesting, recycling of water for irrigating the TOTH and sensor lighting.

One of the major features of the new Royal Randwick grandstand is the magnificent ballroom on level two, which has the capacity to seat 1,000 for a banquet, making it one of Sydney’s largest ballrooms. Woods Bagot’s design for the space included an AV system in the ceiling which allows for a wide range of lighting effects.

“We put together a fantastic team,” said Mark Flanagan.

“At one stage we had 900 people onsite – and we are so proud we can create something that employs so many people. Brookfield Multiplex has done a good job completing it under challenging circumstances. We believe it sets a new benchmark for grandstands and gives the ATC credibility to roll out the rest of our masterplans, which includes the redevelopment of our other racetracks.”

For more information contact Woods Bagot, phone 02 9249 2500, website www.woodsbagot.com.au

Australian Turf Club, phone 02 9663 8400, website www.australian turf club.com.au
For the indoor areas of the new Royal Randwick Racecourse spectators area, the talents of three leading companies came together to ensure a high quality result for the floor coverings. Peter Kelly Flooring undertook the installation of carpets throughout and of durable, slip-resistant epoxy flooring in the food and beverage areas. The carpets were sourced from Brinlons, Australia’s leading manufacturer of woven Axminster carpets, and BASF Australia Construction Chemicals Division were the source of the specialty resin flooring material for the food and beverage areas and of cementitious levelling for the carpet areas.

Peter Kelly Flooring (PKF) are the leaders in the field of floor coverings and have been for over 30 years, undertaking projects across commercial, hospitality and government sectors including TAFE’s, Universities, schools, hospitals and aged care facilities. As founding members of the Floor Covering Association of Australia, they take pride in delivering a superior standard of workmanship, and in using their wide experience to ensure product selection delivers a result that is fit for purpose and brings long-lasting satisfaction to the end users.

The installation work at Royal Randwick Racecourse was undertaken by a team managed and supervised by PKF Managing Director, Peter Kelly and Project Manager, Adrian Murphy. The company had 20 fulltime staff on site, who all adhere to the highest standards of workmanship, OH&S and professionalism. “PKF have gained a reputation for high quality installation, reliability and integrity of service and are known as a company who will go to any location to assist a client. PKF staff are industry professionals with many years of installation experience and have access to a large range of products,” said PKF Company Spokesperson, Peter Kelly.

PKF have expanded from their Sydney base of operations to undertake projects in Queensland, Western Australia and Victoria. Their capabilities include supply and install of carpet, vinyl, rubber and timber flooring by quality suppliers including Brinlons and BASF along with other manufacturers.

Other recent projects PKF have contributed their skills to are the new Royal North Shore Hospital; Chris O’Brien Lifehouse Project at Royal Prince Alfred Hospital, University of NSW Lowey Cancer Research Centre and Wallace Wurth Building Redevelopment; Rosehill Racecourse; Orange Hospital; Alan Walker Village; Saint Library; Thomas Holt Village; Hornsby Hospital; PKF are currently working on One Central Park, RPAH Lifehouse and Stella Apartments with Cairns Hospital, Mackay Hospital, Townsville Hospital, Wagga Hospital and Bankstown Hospital due to start.

BASF succeeded in ensuring the deadline could be met, with their global experience in the needs of major projects and their excellent management of the logistics of manufacture and delivery, combined with the superior qualities of the products, giving PKF and ATC the result required. In July of this year, BASF cemented their niche in the Australian market with the launch of their Master Builders Solutions brand, which brings together all the Construction Chemicals Division products under one brand, including the performance flooring systems used at Randwick.

For a venue as iconic as Randwick Racecourse, no ordinary carpet would suffice. To be selected as the supplier for the project, Brinlons design team in Sydney began with a brief from Woods Bagot’s Sydney office of the desired carpet patterns and developed patterns, trials and specifications over a six month period. Once the carpets were ordered by PKF, Brinlons developed a jointly planned schedule for the manufacture of the approved carpets.

“The design was large scale and needed to be planned to fit precisely. It is always difficult to show what the carpets look like on small samples with large design repeats so Brinlons did a number of floor layouts for consideration by Woods Bagot,” explained a Brinlons’ Spokesman.

“Brinlons use Electronic Jacquard technology to achieve such large scale design and multiple carpet types, this technology allows the creation of patterns not achievable in previous years.”

Brinlons have over 200 years of experience in their trade, and work closely with clients to manufacture hard-wearing and luxurious Axminster carpets which meet the client’s specific design requirements, and bring a floor to life through colour and design woven with the highest levels of technical skill into fine floor coverings.

Brinlons is a truly global company with manufacturing bases in 3 regions around the world, and a combined total of 1300 staff, with around 100 staff world wide contributing to pulling this project off from design through to project management, logistics and production. Other current Brinlons projects include the Adelaide Oval and the refurbishment of Adelaide’s Parliament House.

For Royal Randwick Racecourse, the combined talents of PKF, BASF and Brinlons have delivered a real treat for durability, distinctiveness and quality.

For more information contact, Peter Kelly Flooring, Unit 9, 6 Gladstone Road, Castle Hill NSW 2154, phone 02 9899 6688, fax 02 9899 2444, www.pkflooring.com.au, Brinlons, 13/465-479 Parramatta Road Leichhardt NSW 2040 Sydney Office 02 9564 6222, www.brinlons.net, BASF Australia Limited Construction Chemicals Division, 11 Station Road Seven Hills NSW 2147, phone 1300 227 300, www.basf.com.au

Below: The combined talents of Peter Kelly Flooring, Brinlons, and BASF Australia Limited Construction Chemicals Division deliver a winning result.
For a place as legendary as the Royal Randwick Racecourse, it’s not only the trackside area of the new spectator precinct which needs to be top class. Australia’s largest designer and manufacturer of wet area joinery, CTCI Pty Ltd, has made sure that the new amenities for the public and the jockeys also reflect the thoroughbred nature of the venue, and ensured safety, hygiene, privacy and aesthetics are catered for.

For the general public area, CTCI have installed 176 cubicles of their Waterloo® “Windsor” (Floor to Ceiling) partitioning system. Constructed from Laminex® Compact Laminate, a self-supporting, high pressure laminate based on thermosetting resins, homogeneously reinforced with cellulose fibres. The product has numerous advantages for the ARC, including excellent resistance to scratches, graffiti, vandalism and water. The installation was conducted over six different stages, which will save the ATC time and fitout elements. As befits an icon of the Australian racing scene, the colour scheme for the items CTCI manufactured for the project was distinctive.

“The colour scheme was predominantly black across the face of the cubicles to match the cladding, with the divisional panels adding the contrast by being a different colour throughout the floors and also differed between male and female bathrooms. To further enhance the longevity of the product, concealed hardware was utilized to help minimize vandalism,” said CTCI Spokesman, Gregg Longmuir. “Our innovative range of products and our proven ability to deliver on similar scale of project, and averages over 200 cubicles a week in conjunction with other trades, CTCI also supplied wall paneling and privacy screens throughout the bathroom fittings whilst complemented other FFE and fitout elements. As befits an icon of the Australian racing scene, the colour scheme for the items CTCI manufactured for the project was distinctive.

“In order to meet the deadline, and all working together to deliver a quality fit out,” said Gregg. “CTCI would like to thank both Brookfield Multiplex and the ATC for the opportunity to be associated with this premier sporting facility, and for the support that was afforded to us in the delivery of the toilet and shower cubicles throughout the project.”

As specialists in the use of compact laminate for the manufacture of high quality fitout items, CTCI are continually engaged in innovation and product development in response to market needs. In addition to the wide range of wet area joinery the company has been supplying for the past 14 years, CTCI also manufacture and install wall and island seating, and locker systems which incorporate state-of-the-art lock systems manufactured by Ojmar in Spain. CTCI are also about to launch a new range of cafe tables and alfresco kitchens for both interior and exterior settings, which are customisable in different sizes depending on requirements.

Quality, service and attention to detail are the hallmarks of CTCI’s design and manufacturing process. This also includes attention to sustainability, with the development of new products focusing on the most effective utilization of wastage so as to minimise environmental impacts. CTCI products can be found across the nation in sporting facilities, surf club, schools and educational institutions, clubs, pubs, hotels, and CBD commercial buildings. Their state-of-the-art manufacturing facility in Bathurst NSW has the capability to manufacture specific products for any scale of project, and averages over 200 cubicles a week manufactured and delivered Australia-wide and for export overseas. All the company’s Waterloo system installations have a lifetime warranty.

CTCI Pty Ltd offers a no-obligation free quote on wet area joinery – simply forward your drawings and quotation request to estimating@ctci.com.au

For more information contact CTCI Pty Ltd, phone 02 6334 3222, fax 02 6334 3223, email estimating@ctci.com.au, website www.waterloosystems.com.au
The redeveloped Grandstand at the Royal Randwick Racecourse required a façade that exuded contemporary elegance and timeless beauty yet maintained visual linkages to the surrounding heritage buildings. As specialists in unique architectural building envelopes, SGI provided the perfect product for the projects iconic public face in the form of a 100% Natural Timber Veneer composite panel from the Prodema ProdEx range. K-Line (the installers of Prodema at Randwick Racecourse) found the product to be very versatile, and due to the fact that Prodema ProdEx is a 100% Natural Timber Veneer, and no two panels are identical, K-Line perfected the art of panel randomization in order to produce a façade of sheer elegance, said SGI Architectural spokesperson, Clint Gavin.

For over 25 years SGI Architectural have been supplying quality building facades to the Australian Construction Industry including eco-friendly Alpolic & Aluminium Composite Panels, Prodema Timber Composite Panels, Swisspearl Ceramics Composite Panels, Moulding Natural Clay Tile Facades, Eurobond Non-Combustible Rockwool Cored Sandwich Panels as well as Architectural Glass. Other recent projects that SGI Architectural have been involved with, include Sydney Airports T2 Domestic Terminal, Hospital and many more.

The cladding material for the rear elevation was an important part of the composition of this highly visible face of the building, Prodema ProdEx cladning was selected early in the design process as it had the unique characteristics of combining a natural timber aesthetic in a durable and low-maintenance product. The subtleties of the coloration and visual texture of the panels give the façade a softness which, combined with the low-maintenance product. The subtleties of the colouration and visual composition of this highly visible face of the building. Prodema ProdEx range.

The façade panels on the public face of the building.

Responds to the subconscious characteristics of horses and horse racing and ultimately helps to create an environment, both within and around the building, of comfort and social interaction – Rod Pindar, Project Architect, Frippau + Partners.

Below SGI Architectural were responsible for the architectural façade panels on the public face of the building.
When they are on the edge of their seats with excitement as the horses thunder down the home straight at Royal Randwick Racecourse, punters can be glad those seats were designed, manufactured and supplied by Sebel Furniture. Because when the race is over and they relax and contemplate the form guide and their betting slips, they’ll be doing so in comfort.

Sebel have been supplying seating for sports fans around the country for several decades, including maintaining a long-standing relationship with the ATC. For the recent redevelopment, Sebel manufactured and installed approximately 2,600 seats for the new Grandstand, featuring a combination of the Viva and Podium tip up models. Dependent on the seating category, some of the Grandstand seating features padding and accessories such as cup-holder arms, which are the kind of extra design touches Sebel have developed in response to their thorough understanding of the operator’s needs. All the mouldings were manufactured in Sebel’s Sydney factory, ensuring a thoroughbred level of quality control.

“Experience and track record are extremely important on these projects,” explained Sebel’s Declan Brennan. “One of the challenges was that part of the existing grandstand was retained. This introduced further complications for our planning from a fire engineering and installation perspective, which our expertise effectively resolved.”

The company is currently working on several other major projects, including spectator seating for the redevelopments of Adelaide Oval and the Sydney Cricket Ground. Beyond the sporting sector, Sebel design and manufacture a wide range of furniture including seating, tables, desks, general purpose outdoor furniture and special-purpose furniture items for projects across education, healthcare, aged care, entertainment and public space.

“Like many of our great sporting talents, Sebel have also developed a substantial presence overseas, with their products exported to more than 50 countries around the world,” added Brennan.

For more information contact: Declan Brennan, Sebel Furniture, 92 Gow St, Padstow NSW 2211, phone 02 9780 2297, website www.sebelfurniture.com.au.

With a capacity of 55,000 in the QEII stand, Randwick Racecourse has a large tower’s worth of thirsty punters to serve, making refrigeration for the food and beverage outlets an extremely critical item. Channon Refrigeration provided an innovative customised solution which delivers on performance while minimising long-term energy costs.

“ATC Randwick presented a challenge, as a traditional design of the refrigeration plants for a venue like this would mean at least 68 refrigeration condensing units,” explained Channon Refrigeration Director, Chris Channon. “This was unacceptable due to many factors including power requirements, the high infrastructure onsite costs of providing mechanical services to 68 locations, and the speed of the build.”

Channon Refrigeration’s Project Team designed the system back to 4 Channon Engineered/Biner Central Rack Systems (CEBCRS). These were then refined individually to provide the lowest impact to the client, both for energy use and future movements in carbon pricing. To achieve this, Channon Refrigeration designed inverse compression as well as load shedding into the CEBCRS, from which ‘fans’ of engineered refrigeration lines feed the QEII’s 32 coolrooms, 5 freezer rooms, 4 keg rooms, 6 glycol tanks and 21 cabinets. Channon Refrigeration also designed with Lancer The Draft Beer System which dispenses beer throughout the grandstand via 1000m of Beer Lines installed across the 4 keg rooms.

“Operational costs and product quality were of the highest concern. Channon Refrigeration designed the Beer Pump Systems driven from Lancer air compressors, minimising the Co2 usage throughout the venue,” said Chris Channon. “The manifolding design and labelling provided a simple and ‘easy to use’ interface for the ATC Cellar staff, allowing for bars and products to be instantly turned on or off for the easy control of product dispense and security. Our system ensures only the coldest and freshest beer fills the glasses of ATC Members and guests.”

Both the Refrigeration fixtures and the Draft Beer System have been designed into a remote Supervisory System designed by Channon Refrigeration and Card to provide temperature monitoring and alarms. Remote assistance via internet connection from Channon Refrigeration head office and the company’s service engineers in the field via iPad. This digital interface allows ATC staff to view and monitor their equipment from their office - or anywhere in the world. This project is an excellent showcase of the company’s expertise, which for 39 years has been providing specialist engineered refrigeration solutions across the Commercial, Industrial Refrigeration, Catering Installation and Design, and Draft Beer Systems Australia-wide, including other flagship projects like Ivy and RAS/Skoda Stadium.

For more information contact Channon Refrigeration, phone 02 9759 11 77, website www.channon.com.au.
In terms of design and construction, the air conditioning and ventilation systems for Randwick Racecourse’s new main building and the Theatre of the Horse put Equilibrium Air Conditioning through their paces. There were numerous complexities, including a demanding program of a two-stage handover with the dates for formal completion fixed by two major racing carnivals.

Equilibrium designed and installed a chilled water system with a combination of centrifugal and screw machines, with rain-water being reused for the cooling towers. A heat recovery VRV system was installed for the downstairs areas of the main building, back-of-house, jockey and basement areas, and an overhead system of multi-zone air handling units installed throughout.

“It was a challenge integrating the fitout during the construction process and still maintaining program,” said Equilibrium Commercial Manager, Joseph Maric. “We had to vary the design since the project commenced as a base building construction, and then became an integrated fitout half-way in.

“StrataSurv’s long standing relationship with Brookfield Multiplex continued with their appointed for their survey works on this exciting redevelopment.

With over 700 workers onsite during the peak, StrataSurv were required to attend to a vast and varying arrays of surveys:
- Asbuilt surveys of existing foundations and services to determine impact on new design for possible re-design
- Detail surveys of heritage buildings and interfaces for detailed design and steel fabrication
- Survey setout for Earthworks and new piling
- Setout new grid-lines on each level for various trades to start constructing internal and external works.
- Establish vertical survey control in circular drums for lift contractor and monitor structure loading of each additional floor to determine impact of new slabs on foundation
- Survey of final steel structure for additional steel fabrication.

The experience gained from StrataSurv’s involvement in some of Australia’s largest commercial/retail, residential and infrastructure projects for some of Australia’s largest contractors and developers ensured that the management of both the survey setout and as-built data were delivered accurately and timely to meet the requirements of some 18 separate managers, engineers, supervisors and sub-contractors. An example of the survey works and data captured can be seen from the photo of the remaining old stadium and 3D plan reflecting the surveyed data combined with the new structure.

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“StrataSurv would like to thank Brookfield Multiplex for their ongoing utilisation of StrataSurv resources on such an exciting yet difficult development.

For more information please contact Anthony Mitchell – General Manager – amitchell@stratasurv.com.au

Below Equilibrium Air Conditioning was a sure bet for air conditioning innovation.

Equilibrium have been developing their business since 1968, continually seeking more effective and sustainable ways to deliver results for major commercial, retail, health and specialist projects. They use leading edge technology, including state-of-the-art 3D modelling which can integrate with BIM models.

Other major projects Equilibrium has recently completed include ANSTO Buildings 20, 21 and 39; Sydney Adventist Hospital; Prince of Wales Hospital Mental Health Care; Stockland Merrylands Shopping Centre; Manly Coles; Rydges Hotel at Sydney Airport and Shoalhaven Cancer Care.

For more information contact Equilibrium Air Conditioning (NSW) Pty Ltd, Joseph Maric, Commercial Manager 02 9439 4822, website www.equilibriumac.com.au

StrataSurv would like to thank Brookfield Multiplex for their ongoing utilisation of StrataSurv resources on such an exciting yet difficult development.

For more information please contact Anthony Mitchell – General Manager – amitchell@stratasurv.com.au
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NSW PROJECT FEATURE ROYAL RANDWICK RACECOURSE WWW.ANCR.COM.AU

Producing upscale food and beverages requires the best possible equipment, like the bars and kitchens manufactured and installed by ACT Stainless Steel (ACTSS) at Royal Randwick Racecourse.

Since 1995, ACTSS has been producing superior workmanship in stainless steel products for commercial kitchens, laboratories, and architectural features. Other recent flagship projects include the main production kitchen at parliament House in Canberra, the Mess hall kitchen at ADF, and QT Hotel on George Street.

The company uses CNC Machinery & 3D CAD software to design custom products for projects like Randwick, and their project management, state of the art fabrication facility and highly skilled trades workforce ensured the project's tight delivery and installation timelines were met.

Having completed work on one sporting icon, their focus is now on another, with ACTSS now at work on the SGG's new grandstand, which is due for completion in time for the Ashes Tour.

For more information contact ACT Stainless Steel, Phone: 02 6228 1123, fax 02 6228 1129, email info@actstainlesssteel.com.au, website info@actstainlesssteel.com.au

By paying attention to every detail, Gillespie Cranes effectively managed the complex lifting requirements of the Randwick Racecourse Redevelopment. They were on site for almost 18 months, from initial demolition works through to final completion of the new QEH Stand. They provided a variety of Liebherr All Terrain cranes including one x 280 tone, one x 130 tone, two x 90 tone, two x 60 tone and one x 40 tone. They also supplied up to four 20 tone Franna, one x 12 tone franna and two x 16 tone rough terrain cranes. They also provided a 400 tone Liebherr All Terrain Crane for lifting the air conditioning plant and chillers.

Their crew included operators, dogmen and riggers, all highly trained, extremely experienced and focused on safety, with daily toolbox talks held. Operations Manager Shane Lloyd-Jones was onsite throughout managing the complex logistics, which required constant variations to crane deployment depending on the Multiplex program. “This is the first major project I know of where Multiplex exclusively used mobile cranes,” he said. “At one stage we had a 90 tone crane operating on a suspended slab in the middle of the grandstand for four months. At the same time we had another 90 tone and a 60 tone alternating at the southern end, a 250 tone near the middle crane and at the northern end another 90 tone and 60 tone alternating. “This was a very well-run project. Our operators had radio communications and ongoing communication with Multiplex, ensuring notification was given to people entering the lift areas.” This family owned business has been providing cranes and access equipment to projects across the Greater Sydney area and the rest of NSW for over 63 years. When operations first commenced, Gillespie Cranes built their own cranes, and the hands-on tradition continues with the qualified mechanics of their maintenance division. The company also has a large fleet of boom lifts and scissor lifts available for hire, and a modern fleet of transport vehicles for the delivery of all of the company’s equipment including crane counterweights.

All the operators have extensive training and numerous tickets including the RSE ticket for Rail work, Emergency Rescue, Electrical Safety, and the MCIS waterfront ticket, which involves Federal Police security clearance. They have specialised skills in concrete tilt panel erection, and erection and dismantling of all types of tower cranes, with a level of skill and client-focused service which has gained them repeat contracts with all the major builders. Gillespie Cranes have worked on infrastructure projects, rail bridges, commercial projects and civil construction, including Lifespace at RPA, the Cross-City Tunnel, Commonwealth Towers at Darling Wall and the Runway Extension at Mascot Airport.

For more information contact Gillespie Cranes, phone: John Gillespie 02 8818 1877 Or Shane Lloyd-Jones 0419 633 606, email info@gillespiecranes.com.au, Website: www.gillespiecranes.com.au

Gillespie Cranes were responsible for raising the roof and everything else at the Royal Randwick Racecourse.
One of the most distinctive features of the new QEII stand at Royal Randwick Racecourse is the two drum-like cylindrical stairwell structures which Aambianz helped make possible. Aambianz designed, engineered, manufactured and installed all the architectural louvres which form a major part of the stairwell facade, working closely with the architects on the design.

“We tend to work with architects at the design stage. Our engineering skills give them freedom to think as we are able to engineer solutions which achieve their design goal,” explained Aambianz Director, John Joseph. “Builders also like to work with us because we do not charge a premium to install our products – we provide an end-to-end solution.”

The company also manufactured and installed the anodized aluminium swaged blade louvers for the link area, owners pavilion and plant rooms, a total of around 4000m² of facade. “Since the stairwell louvres were installed to a curved surface, the design and implementation was critical for the success of the project. We provided a complete solution, including the structural steel for installation, and the engineering planning of how to install them,” said John.

Aambianz was established in 2004 by a group of engineers and facade designers and has grown to a company employing 40 staff across engineering, design, manufacturing, installation and project management. The company’s capabilities include aluminium architectural, acoustic and ventilation louvres; fixed, operable and motorised sunshades; perforated and laser-cut aluminium panels; and custom-made sun-control systems. Aambianz are members of the Green Building Council of Australia, and their products are designed to provide sustainability benefits by reducing power consumption for cooling through shading and ventilation.

Every project they undertake is a customised solution, with 3D modelling used during the design process to enable meshing of their engineered designs with the architectural plans. They can design for and produce any visual finish, as shown at Penrith Commuter Carpark, where the louvres reflect the colours and patterns of leaves.

Currently, Aambianz is working on fixed facade louvres and feature louvres for the Charles Perkins Centre at the University of Sydney; facade and plant room louvres for Canberra Airport; Rooty Hill RSL; and Next DC Data Centre.

For more information contact Aambianz Pty Ltd, 5/16 York Road, Ingleburn NSW 2167, 5 Archimedes Street, Darra QLD 4076, phone 1300 88 3011, email info@aambianz.com.au