

MAIN CONSTRUCTION COMPANY: Lend Lease
CONSTRUCTION VALUE: \$535 million
COMPLETION DATE: Mid 2014
ENGINEERS: Aecom

SHORT TIME FRAME STILL DELIVERS QUALITY RESULTS

The \$535 million redevelopment of this iconic and historic premier sporting and entertainment venue will deliver a world-class sporting stadium with a seating capacity of 50,000.

In what has been one of the tightest construction time frames in Lend Lease's history, the 100-week construction period to build a world class stadium involved detailed planning and execution by the team and trade contractors.

Delivered by the Government of South Australia, the Adelaide Oval Redevelopment project saw lead building contractors Lend Lease make Adelaide Oval's operators, the Adelaide Oval Stadium Management Authority (AOSMA) a reality.

Managing Director of Lend Lease's Building Business in Australia, Murray Coleman, said the company was faced with a formidable time schedule to build a world-class stadium in 100 weeks.

"If you look anywhere in the world that's unprecedented," he said.

The \$535 million redevelopment was announced in late 2009 by the State Government with the view to deliver an internationally renowned, world-class venue for the 21st century.

The 50,000 seat stadium included a peak construction workforce of more than 850 staff and contractors, with more than 2,300,000 hours worked.

More than 280,000 tonnes of earth had to be removed to begin construction of the new Southern and Eastern stands and 60,000 cubic metres of concrete has been used to construct the new stands.

With construction taking place from March 2012 until March 2014, it was undertaken in six separable portions that included the Northern mound, the Levelling of the Oval, Sports Lighting upgrade, the Southern Stand and Entrance plaza, the Indoor Cricket Centre and the Eastern stand.

Logistics and site management became key, considering the location of the project and the requirement to maintain the playing surface for the 2012 cricket test series, then returning the playing surface for the 2013 ashes test.

Daily planning sessions were held, major activities were analysed from transport to erection and problems were workshopped until successful outcomes were achieved.



"Adelaide Oval redevelopment is one of those once in a generation projects.

"We feel extremely fortunate to be afforded the opportunity to work on this landmark project, which has been one of Australia's premier sporting and entertainment venues for more than 140 years.

"Most importantly, the team and contractors achieved an outstanding safety record – something we are extremely proud of with safety Lend Lease's number one priority.

"The Lend Lease team felt a great sense of pride to be involved in such an iconic

project that will be enjoyed and celebrated by Australia's future generations.

"This is a great example of how business can work with the government to deliver a first class facility for the state of South Australia."

In concert configuration, Adelaide Oval can host up to 61,000 people and no spectator will be more than 40 metres from the nearest food or beverage outlet. There are five large replay screens: two on the Southern Plaza, two in the Southern pockets and one in the north. The stadium has three television studios, 11 radio booths and room for nearly 150 print media journalists.

Adelaide Oval is currently the only venue in Australia to achieve 2500 lumen per square metre, which fully complies with International Cricket Council World Cup requirements and will give Adelaide the opportunity to continue to host games at future World Cups.

Adelaide Oval will be enjoyed by generations to come and attendances at the oval are forecast to increase by more than one million people a year.

For more information contact Lend Lease, PO Box 5700, West Chatswood NSW 1515, phone 02 9236 6111, website www.lendlease.com

DESIGN EXCELLENCE MAKES ALL THE DIFFERENCE TO FINISHED PRODUCT

Having played host to some of Australia's most exciting moments in cricket and football history, the redevelopment of Adelaide Oval has helped maintain this iconic venue's history while bringing it up to world class standards for the 21st century.

With developers clear that they wanted the Adelaide Oval a major highlight on the global map for international and national entertainment and sporting events, the very best of new world wide design had to be present from the initial planning stages.

For this reason it was natural to choose one of the last and only family owned and operated door companies in the country, which is Airport Doors.

Project manager Michael Cassar said Airport Doors was Australia's superior manufacturer of residential, commercial and industry doors.

"With an extensive product range, a wealth of experience and the ability to custom make its own products we are able to easily cover very large and detailed projects such as the Adelaide Oval redevelopment," he said.

"Our continual research and development program along with ongoing control practices cements our position at the forefront of door technology. Our many years of experience and extensive skill set [in the door industry] allows us to overcome challenges such as installing shutters in non-conforming openings at the Adelaide Oval.

"The beauty of this project was that we were able to work with the architect and the builder in the design phase, so that we got all the fine points correct when it came to the manufacture, supply and installation of over 140 doors."

These doors were a mix of steel, aluminium as well as being fire rated, similar to ones that Airport Doors will use on other substantial projects including the Tonsley Redevelopment, Liebherr RF Facility - yet another exciting new project for the team at the RAAF base.

"By operating nationwide we have become not only renowned for our wide range of door products, but also widely recognised for our unparalleled excellence in the design and manufacture of special application doors which are specifically designed and manufactured to suit unique applications."

For more information contact Airport Doors Pty Ltd, 16 Krawarri Street, Lonsdale SA 5160, phone 08 8326 0466, email sa@airportdoors.com.au, website www.airportdoors.com.au



THE MEANS TO DELIVER CHAMPION RESULTS

Just like the sportspeople who play there, the materials used for the Adelaide Oval Redevelopment needed to have high performance qualities – which is why Rondo's lightweight building solutions have been such a perfect match for the project's needs.

Following on from their supply of materials for the Western Grandstand project, completed in 2010, Rondo have been supplying all the materials for the external facade and internal walls and partitioning for the new southern and eastern stands.

For the external façade, contractor Cladding and Roofing have been using Rondo's top hat and externally designed Keylock® system. The interior fitout contractors, Laser Linings and Expo Conti, have been using a number of Rondo products including 64mm, 92mm and 150mm Stud; QUIET STUD® Acoustic Wall System in the corporate facilities areas; and Keylock®, DUO® Exposed Grid Ceiling System and Exangle® throughout. A fourth contractor, F&V Ceilings, used Rondo products for the media boxes on both western and southern grandstands.

"The works in the southern and eastern stands commenced in 2011. The time schedule has been tight, with many deadlines required for completion, such as getting the base oval functional for the Ashes test late in 2013," said Rondo State Manager, Ivar Spanovskis.

"The project has been extremely challenging for all involved."

Rondo's combination of innovative high-quality products, efficient supply, expert technical advice and experience in demanding projects enabled the facade and fitout teams to deliver excellent results and meet all the required milestones in a timely manner.

A specific design was engineered by Rondo for the external wall applications, which resolved the challenges posed by crowd impact on walls. Other complexities included the acoustic requirements for the media boxes on both stands and for the corporate areas, and also requirements for the project's fire-rated walls.

Rondo has been designing, engineering and manufacturing innovative construction solutions since 1964, when they pioneered

the first suspended ceiling system. Today, Rondo's products are used in some of the most prestigious projects around Australia and internationally including; the Middle East, Asia and India.

The company's technical team work closely with contractors, builders and architects to develop specific solutions for complex and demanding requirements. These talents were at the fore on another significant Rondo project, the SAHMRI.

An unwavering dedication to quality and total compliance with all applicable standards is a core company value, with a Quality Management System certification from Lloyd's Register Quality Assurance to ISO 9001 held since 1993. This gives their customers – and up to 50,000 fans at Adelaide Oval – complete peace of mind that what Rondo products build will have a very long innings indeed.

For more information contact Rondo Head Office, 57-87 Lockwood Road, Erskine Park NSW 2759, phone 1300 367 663, website www.rondo.com.au