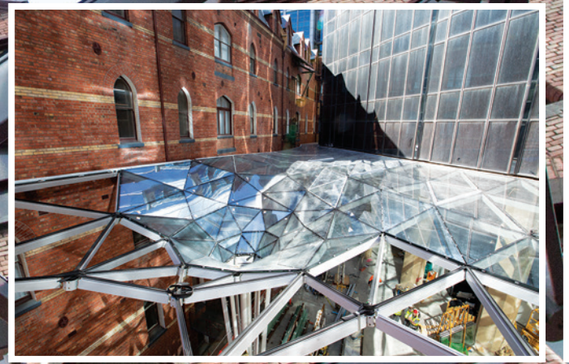
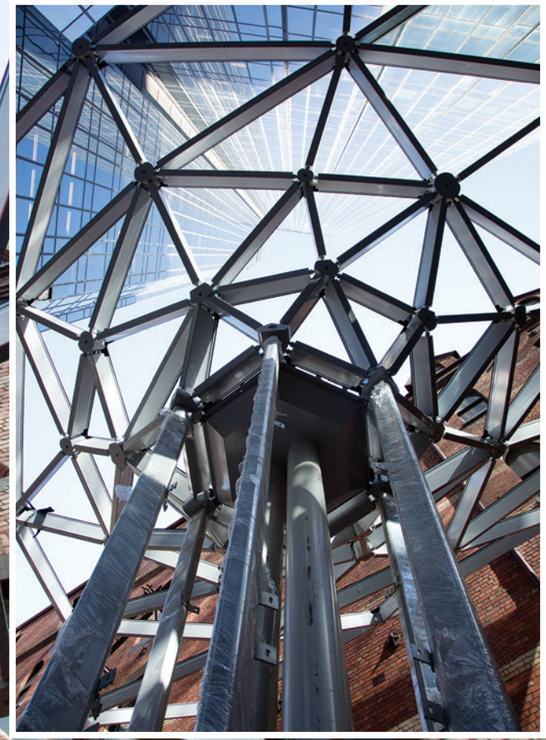
RIALTO REGENERATION

DEVELOPER : Rialto Joint Venture
MAIN CONSTRUCTION COMPANY : Built Pty Ltd
ARCHITECTS : Woods Bagot Pty Ltd
STRUCTURAL ENGINEER : Aurecon Group
PROJECT VALUE : $200 million

Below AAM's survey expertise helped to solve complex problems during construction and erection of the grid shell roof.

Below LANIK designed and installed the 'grid shell' canopy for the atrium entrance to the Rialto.





Initially, AAM was engaged to conduct 3D laser scanning for planning and early design work by the developer, Equiset Grollo, in 2014.

Following this, Built engaged AAM as lead project surveyors. The unique design, incorporating a grid shell roof, demanded innovative survey solutions. AAM's surveyors, modellers, cadastral leaders and other specialists met the challenges of a sophisticated and challenging build using advanced survey and modelling techniques: terrestrial laser scanning (TLS) to capture point cloud data throughout the site, photogrammetry, 3D modelling and visualisation, complex set out and structural monitoring, and cadastral survey. The results for the developer, consultants and builder were a consistent 'single point of truth' for design and seamless erection of the grid shell roof into its design location.

Employing 290 staff across Australia, AAM is also busy with NorthConnex in Sydney, Chadstone Redevelopment, Sydney Light Rail, and Tullamarine and Monash freeway widening.

For more information contact AAM, phone 03 9572 8750, email info@aamgroup.com, website www.aamgroup.com

Two years ago, specialist contractor, LANIK's foray into the Australian market began with an invitation from AECOM to present a proposal for the Rialto Regeneration Project's 'grid shell' canopy for its new concourse entrance.

The aim – and challenge – was to efficiently transform the Rialto into a revitalised urban presence within a limited space,taking into account 12,000 daily users of the building while respecting Collins Street's adjacent heritage buildings. The effort has already been recognised as head contractor Built was awarded with the Excellence in Health and Safety by the Master Builders Association.

Commencing 39 years ago in San Sebastián, LANIK's patented structural and retractable systems have been installed in over 1,800 international projects. Structures are 100% bolted and assembled on the floor facilitating precise and safe operations at site. The company's multi-disciplinary team of 79 works with developers, architects, engineers, and contractors at every stage, from initial design through to manufacturing and installation.

For Rialto, LANIK's turnkey solution was an 1,800m^2 canopy connecting existing buildings and acting as a weather proof atrium for visitors. The structure is supported by its own double curved geometry and five funnels acting as stormwater drainage points.

Design, manufacturing and installation processes were based on a proprietary CAD/CAM system, enabling the steel structure and glazing elements to be designed and manufactured in parallel and in a very competitive lead-time. Components were fabricated offsite through CNC machining and robot welding, and then delivered to site as pre-fabricated elements.

Recently, LANIK provided a FSC certified timber façade for the Carioca Arenas, the biggest venue of the Rio Games, as well as, the retractable roof for the Arena de Baixada Stadium, that recently hosted the third biggest UFC event ever with 45,000 spectators. Locally, they are also designing and delivering an iconic canopy for an urban renewal and transport program in New South Wales.

For more information contact LANIK, S.A., Mundaiz 8, 20012 San Sebastian (Spain), phone +34 943 32 60 50, email lanik@lanik.com website www.lanik.com

Rialto Regeneration, Melbourne

Below Boon Edam installed 5m high revolving doors (the largest in the Southern Hemisphere) at the entrance to the Rialto.

Global architectural revolving door leader, Boon Edam, has enhanced the aesthetics, efficiency and functionality of the entrance to Melbourne's Rialto Towers by installing five of the largest revolving doors in the Southern Hemisphere, each standing 5m tall. The new doors are a striking focal point of the regeneration project for the Rialto building, managed by Built, to modernise the building and extend it by wrapping new buildings around its base.

Built Procurement Director, Peter Radovanovic, says that Boon Edam's recently established Australian operation, their ability to undertake a service agreement and global expertise, were the key reasons they were selected to build the doors. "Boon Edam has an excellent track record for delivering on complex projects. For the main entry into such an iconic Melbourne building, we had to go with a proven supplier," said Peter.

"Taking on the service agreement was another major advantage for us. Having a global leader that's also the door's original manufacturer look after all the service and maintenance, gives us a greater level of confidence that the door will always remain standards compliant, and run at an optimum level of efficiency and reliability. Additionally, Boon Edam provided us with a robust Quality Assurance plan," he said.

The doors are part of Boon Edam's Tourniket range, with custom-made Tournex dual motors to control the giant 1.3t doors. These motors had to be installed at the top and bottom to control the door's wings and comply with Australian safety standards, which specify that the door needs to be able to stop instantly if an emergency sensor is triggered. Boon Edam worked closely with the project engineers to integrate this dual motor system into the building's existing infrastructure.

Michael Fisher, Managing Director of Boon Edam Australia, said that it was rewarding to work on such a unique and large-scale project. "This project presented us with a number of unusual challenges, but rather than baulk at them, we used our highly experienced team to figure out the best solutions. A key focus for us is blending architecturally sound engineering with visually pleasing and functional designs," he said. Operating in 27 countries, Royal Boon Edam is a global supplier to some of the world's biggest companies and multinational groups, as well as public and private agencies.

For more information contact Boon Edam Australia Pty Ltd, 201 Sussex Street, Level 20, Darling Park Tower 2 Sydney NSW 2000, phone 1300 689 905, (Michael Fisher) mobile 0415 671 884, email michael.fisher@boonedam.com, website www.boonedam.com.au