

perimeter

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BOLLARDS

Titan Power Distribution Bollard

A striking new cultural destination has been created in Australia's Gold Coast. Delivered on a 16.9 hectare site, within walking distance of Surfers Paradise, the Gold Coast cultural precinct will be a heart for arts, culture and creative enterprise. It will become the Gold

Coast's place to be for residents and visitors alike.

With new visual and performing arts facilities and a programmed outdoor artscape, the completed Gold Coast cultural precinct will support the city's already thriving cultural evolution.

LEDA provided 17 x *Titan Power Distribution Bollards* for the area to provide lockable outlets throughout the site.



As the area will hold local markets, stalls and events, power and water was required in and around the facility. Product was delivered on time and on budget.

Perth Council Chambers

Perth's main council chambers are located in St Georges Crescent. They are surrounded by attractive gardens with pedestrian access to the main entrance by way of a wide pathway.

LEDA's Western Australian office were contacted when it was recently decided to improve security measures against illegal vehicle entry. The bollards chosen and subsequently installed were our attractive triangular *Major Bollards*.



Vehicle Access Control for Stadiums

LEDA has been successful in winning multi million contracts at many of Australia's leading stadiums to supply and install physical perimeter security and Hostile Vehicle Mitigation (HVM) protection.

Recently completed is the Optus Stadium Perth where LEDA has installed a *ring of protection* involving certified high impact resistant bollards and barriers. The project also requires provision for vehicular access at numerous locations. The stadium builders *Multiplex & WA's Department of Main Roads* employed LEDA to supply and install a range of *Vehicular Access Control (VAC) automated products*.

The project also include numerous *LEDA semi automatic retractable bollards (power assist)* across various vehicle access roads.

BOLLARDS



The bollards normally remain retracted and are able to be raised limiting vehicular access during events. Choosing semi automatic retractable bollards over fully automated systems saved many hundreds of thousands of dollars on the project.

We also installed a number of special *large boom gates* (up to 12m wide) to limit and allow controlled vehicular access.

At present LEDA WA team has been busy installing over 330 *fixed and removable stainless steel bollards* at the Swan River pedestrian bridge. This bridge will provide main pedestrian access to the Optus Stadium. The 125NB bollards being installed at the project will also provide corral and queuing for the Stadium's bus terminal.



BOLLARDS

NRMA Charging Stations

NRMA's Chairman Tim Trumper recently advised the association's commitment to a roll out of EV charging network across NSW.

LEDA's *Aegis Bollards* have been selected to provide perimeter protection to the charging stations from accidental damage. The bollards are also finished in light blue to match NRMA branding and colour.

Four bollards protect each charging station. The first four sites are already underway.



Traffic Management Centre Protection

LEDA's high security division have recently completed installing all the perimeter security to Sydney's new Traffic Management Centre.

The project involved the installation of a ring of custom designed *fixed bollards* to the perimeter of the building as well as for vehicular access by a series of *PAS68 certified retractable bollards*.



Yagan Square - *An Attractive Public Space*

Recently completed by Doric Constructions Yagan Square adjoins the main Perth train station providing pedestrian access to the CBD and East Perth precincts.

It contains a number of new food and retail outlets as well as a public area with attractive and functional precast concrete/timber seating elements.



BOLLARDS



Vehicle access to the site is controlled by two sets of LEDA stainless steel *automatic retractable bollards* which can be controlled and accessed through intercom or card. In this instance our WA office and client chose electro mechanical operated bollards.

Shallow Mount Bollards

Installing security bollards in CBD brings with it a whole host of challenges the largest of which is *how not to disturb existing services*.

Conventional concrete footing for high Security HVM applications can require up to a 750mm deep concrete footing to provide the required impact resistance however in most CBD locations that may prove difficult if not impossible.



This problem is solved with LEDA's *shallow mount bollard* systems. Requiring only a 114mm deep penetration, LEDA's bollards provide the shallowest footing available in Australia, while still providing a PAS68 rating for a 7.5Tonne vehicle at 80 km/hr.

BOLLARDS



National Jewish Centre

Installing retractable bollards is not as straight forward and easy as many would believe. Fortunately at LEDA we have some very experienced and capable staffs and contractors who carried out this installation for Manteena at the National Jewish Centre in Canberra.

The project required three of LEDA's *semi automatic retractable bollards*. A deep strip footing is excavated prior to steel reinforcing cages being laid and the bollards suspended from special levelling devices.

It is extremely important to ensure the bollards are plumbed exactly as there is no room for adjustment once the concrete footings are poured.

Westminster Bollards for VIC Parliament Precinct

The Victorian parliament and their architects have selected LEDA's *Westminster* bollards for installation outside Victoria's Parliament House along the Spring Street frontage.

The Westminster bollards were chosen for their heritage design and are available in either deep or shallow mount footing designs. LEDA's Victorian team expect the installation to commence in several months.



Capital Square

These attractive stainless steel bollards were supplied and installed by LEDA's WA office for the project builder *Multiplex*.

We believe the attractive building complex will become Woodside's new head office.

Bi-Parting Cantilever Gates

A large 18 metre opening was accomplished at this defence site in Queensland with the installation of these two LEDA **9 metre long bi-parting cantilever gates**.

GATES



LEDA's Queensland team recently completed the project for Badge Constructions.

Randwick Racecourse

LEDA's Tuggerah plant manufactured these two large **track sliding gates** that will control traffic access at the new vehicular entrance for the Royal Randwick Racecourse.

The gates were installed for CD Commercial as part of a large contract involving gates and fencing along Alison road which is part of Sydney's light rail project.



GATES

Security Enclosure

LEDA recently completed a third security fencing and gate project for Warrington Properties at Kings Park in Perth.



Warrington properties specialises in re-developing medium sized commercial properties. On this project LEDA secured the open underground car park by supplying and installing *security mesh panels* to the perimeter of the building, three track sliding gates for vehicular access and pedestrian access gates.

Modular Gate in a Rural Site

LEDA recently completed a modular gate project for DSA Contracting in Glenorie which is a rural area in outer Sydney.

LEDA's *modular gates* are robust, well designed and economical. They are easily transported to any remote locations and assembled with a user friendly installation instruction manual.

A range of access control systems are available with solar powered operation as optional.



HMAS Platypus

Sydney's old submarine base is currently being converted from its original role to a public precinct for the enjoyment of the public.

Located on the harbour front at Kirribilli the old Naval base is undergoing extensive modification. A new foreshore

GATES



pedestrian bridge will make access to Sydney's ferry network much easier. LEDA have recently manufactured and installed three *pedestrian gates, vehicular swing gates,*

stainless steel bollards which are located high above the base. LEDA was on this occasion contracted to *Design Landscapes* to carry out the works.

Automated Swing Gates

A very straight forward job for our NSW install team.

These pair of *automated swing gates* were installed for Taylor Constructions at a Mascot carpark near Sydney's airport.



PROTECTING PUBLIC SPACES

STREET FURNITURE



Disguising Security Bollards

As state and local governments across Australia wrestle with the best methods of protecting civilians and pedestrians in our public places LEDA has been instrumental in finding alternatives and options other than installing rows and rows of steel bollards.



PAS Rated Bollards disguised inside concrete wall with timber seat



PAS Rated Bollards disguised inside timber wall



PAS Rated Bollards disguised inside concrete wall with aluminium seat

We have previously advised about these alternative products (more economical *Engineered Solutions*) however when there is no option other than to the installation of *HVM Bollards* we have designed methods of disguising them to improve their visual appearance and the aesthetics of the location.

A simple method is to build planter boxes around them using conventional *Brick or Timber and Aluminium*.

These can additionally have seating added to make them more multi-functional.

PROTECTING PUBLIC SPACES

STREET FURNITURE



BEAUTY & SECURITY

These renderings provide an example of how physical security deterrents can be achieved in helping make our public spaces more attractive and functional.



Aesthetically Attractive Engineered Solution

Clients have an option to choose from our comprehensive range of Engineered Products which are more economical while not ruining the aesthetics and attractive nature of public spaces.



BIKE PARKING

NSW Department of Education EOT Facility

LEDA's Sydney install team recently finished fabricating and installing a bicycle *End of Trip* facility for the builder, Built Australia.



The building is located in Parramatta and will house the Department of Education new Head office. The bicycle parking complex is designed to accommodate 152 bicycles and uses three various bike rack models with our CBR2GS

dual height bike racks helping maximise the number of cyclists that can utilise the facility. LEDA's Tuggerah plant manufactured the bicycle cage using modular security mesh steel panels and provided access through two specially designed pedestrian gates.

Opal Bike Parking

LEDA undertook a large scale *End of Trip (EOT) facility* for Icon Construction on the new Opal Residential tower in *Sydney Olympic Park*.

The design was complicated due to the odd angles of the basement space provided, however, LEDA designers were able to meet the client's requirements and installed 129 units of BR2101 and 6 units of CBR45C for a total of 282 bike spaces.



Brisbane Airport

Airports are one of the last and least expected location we expect to be asked to install *bike racks*.

While associated with people departing on journeys, but let's not forget about airport employees that's exactly who we were catering for.

Macquarie Bank Bike Facility

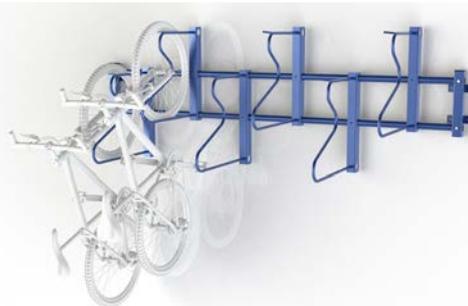
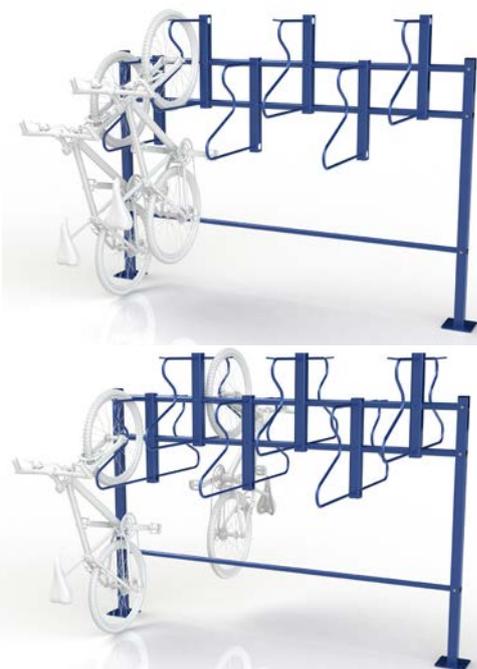
Located in the centre of Sydney's CBD in Martin Place provided LEDA's installers with special challenges when they installed a bicycle parking facility for Graphite Projects and Macquarie Bank.

Our staff assisted in the bike rack selection which uses both *horizontal and vertical racks*. Once again best utilisation of the space available was achieved by installing our CBR2GS dual height racks.

The well designed EOT facility also has change rooms, clothes lockers, bike repair station and showers for the bank's employees.



BIKE PARKING



Single/Double sided, Wall Mount **Space Saver**

New Securabike Rack

LEDA Ningbo office has recently completed finalising a new Securabike *Space Saving* bike rack.

The space saver is available in three models, *single sided, double sided* and a *wall mount*. Catering for vertical bicycle parking allows

substantially more bikes to be stored in allocated areas than horizontal racks. Another design feature of these racks is that the bike hangers can be positioned to provide whatever spacing is required between bicycles.

As with all Securabike racks they are flat packed to reduce transport costs and with bolt connections can be assembled quickly and easily once on site.

We Ride Australia

Following a meeting with the organisations Development Director Phil Latz and LEDA's MD David Matthews a decision was made to support *We Ride Australia* by joining as a corporate member.

We Ride is focused on inspiring all Australians to choose to cycle and to build on the 4 million individuals that currently ride a bike each week.



BIKE PARKING USA

Parklands Range Racks

Securabike US distributor *Duo-Gard* recently installed our *Parklands Range Venture Racks* for Temple University in Pennsylvania.

It is anticipated that more venture racks will be installed around campus in the future.



Parklands Rack, USA

CBR4SCG Racks, USA



Michigan State University Bike Racks

Duo-Gard completed this shelter project using Securabike galvanised *CBR4SCG racks* for *Michigan State University* in US.

As the client needed to park as many bikes as possible in the available space Duo-Gard were able to fit 9x CBR4SCG racks allowing 36 bikes to be parked conveniently under the canopy area.

Bike Rails for Apartment

Featured is a project for an apartment in the city of Ann Arbor, Michigan.

This shelter project was completed using Securabike standard *bike rails SBR11B* in stainless steel finish.

As seen in the picture our bike rails not only matches with Arlington shelter finish and style but also allow residents of the apartment to park their bicycles prominently.



SBR11B Rails, USA

STAFF NEWS



Parliament House Turnstiles

Our Tuggerah production team have recently completed manufacturing four *full height stainless steel turnstiles* for our Federal Parliament House in Canberra.

Due to the nature of the site the turnstiles had to be completed to a very high calibre finish and as you can rightly see four of the LEDA employees are justifiably proud of the completed product.



Total Facilities Expo 2018

For the past two years LEDA has exhibited at *Total Facilities* which this year was held at Melbourne's convention centre.

The exhibition is for Facility Managers across Australia with the exhibition rotating each year between Sydney and Melbourne.



Chinese New Year 2018 at LEDA China

While captured several months ago, this picture taken to celebrate *Chinese New Year 2018* by our LEDA China team.

Featured are our Ningbo China staffs with visiting LEDA CEO Sandy Capannolo and Production Manager Steve Gerasklis.



CEO & Production Head with Team Ningbo

MESSAGE FROM THE CEO



We are now almost half way into 2018 and I dare say everyone is extremely busy with the financial year end approaching at a rapid pace. I hope things have gone well for everyone over the last 6 months and that you will all finish the financial year end on a high note.

LEDA continues to be very busy winning and delivering many successful projects for clients Australia wide, whether it be bike racks/shelters, bollards, turnstiles, high security automated gates or HVM solutions to protect the Australian community. These areas are our key focus and we take great pride in delivering quality outcomes for all concerned.

This edition of *Perimeter* is testimony to the quality and value of the solutions LEDA has been engaged to deliver. As you can see LEDA has been delivering many high quality multimillion dollar solutions on high profile projects - Optus Perth Stadium, Adelaide Oval, Parliament of Victoria, Swan River WA, Supreme Court Canberra, Vic Roads, and Adelaide Central Market. Several of these have been completed and others are well on the way to being completed. We also continue to offer innovative solutions such as the Westminster heritage bollards for the Parliament of Victoria in an effort to provide solutions that meet the streetscape aesthetics of the areas being protected. All the projects have highly complex needs, often complicated further by cost and lead time restrictions. Many inner city sites also require creative solutions to enable deep embedment of the high impact rated bollards, especially with auto retractable bollards. LEDA prides itself on its ability to find the right solutions to these problems, and deliver projects on time, and on budget.

LEDA continues to be very busy across the full range of our products and market sectors nationally. Our renewed emphasis on *improved customer service and satisfaction* has resulted in some very positive feedback and stronger relationships across government, council, construction, commercial and specifier markets. We all live in a challenging environment which continuously changes due to events that may or may not be under our control and LEDA's key focus is to be open to these changes and revise its approach regularly to improve what we do and how we do it. I also take great pride in advising that with our success in South Australia we have appointed a South Australian based State Manager and are now in the process of building a stronger presence in the South Australian market across all our offerings. South Australia is a critical market for LEDA and we are committed to increasing our capacity in that state. That's all for this issue and I look forward to updating you all in our next issue of *Perimeter*. Until then all the very best to everyone.

Sandy Capannolo

Chief Executive Officer

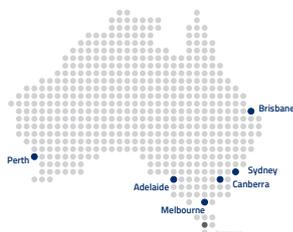
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