

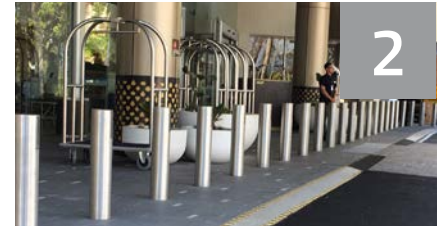
perimeter

SECURITY PRODUCT NEWS

STAR CASINO SYDNEY



LEDA Engineered Bollards



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BOLLARDS

Green Square, Adelaide Projects, NRMA Bollards, Star Casinos, Bus Interchange, VicRoads, Security & Base Plate Bollards



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SECURACCESS

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LEDA CHINA

Product Range and Capability



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Adelaide Oval



Double Swing Gate

BOLLARDS

Green Square Bollards

While these pictures don't indicate it the suburb of Green Square in Sydney is famous for having the highest population density of any suburb in Australia.

Working with John Holland on this project LEDA's Sydney office supplied and installed a wide range of products which included:



- 2 sets of 200NB auto retractable bollards
- Stainless steel card reader bollards,
- Russell precast concrete bollards &
- Securabike SBR85F stainless steel bicycle rails.

LEDA's technicians set up and programmed all the required control equipment before commissioning the automatic bollards. Our NSW team also installed all other LEDA products as well.



Adelaide Airport Hotel

It is several years since we first installed the PAS certified bollards at what was the new Adelaide airport domestic terminal.

Now again in 2018 we are back at the airport installing a combination of *architectural and PAS68 fixed and removable bollards* for Built (Builders). Once installed the *high security steel bollards* are fitted with stainless steel sleeves making them much more aesthetically attractive. These bollards are identical in diameter and have the same certified impact ratings as the original bollards we installed.



Installation in Progress



Adelaide Oval

In today's world it has become unfortunately necessary to design and implement physical security protection against possible terrorist or vehicle attacks wherever large number of people congregate or gather.

High on this priority are stadiums and other sporting facilities which are likely to draw large crowds. While this is a worldwide problem The South Australian Government has taken a lead in Australia by initiating and protecting Adelaide's premier and famous sporting facility *The Adelaide Oval*.

The major threat is from *Vehicles as a Weapon* (VAAW) so the first step is to prevent vehicles being able to gain entry. This can be achieved by the installation of physical barriers and landscaping.

In many instances roadway closures may only be required on days when there are events scheduled and this can be managed by installing crash rated retractable bollards.



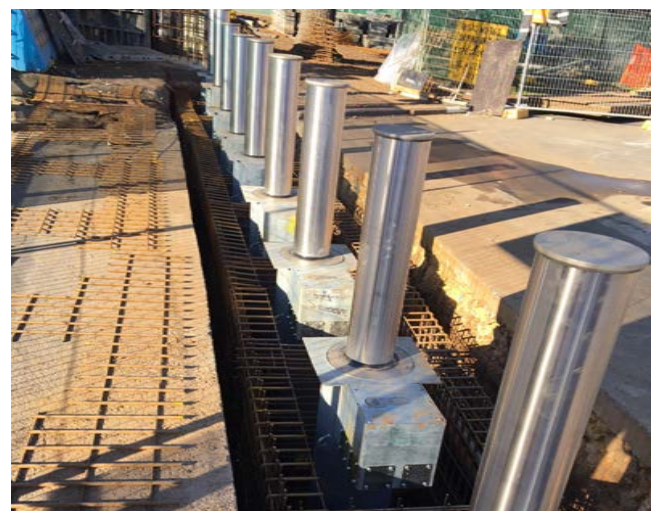
In this vehicle access point four SPTT telescopic bollards are being positioned prior to concreting in. These shallow retractable bollards only require a footing depth of 900mm alleviating the need to reposition other existing services.

LEDA's experienced high security staff were involved with the project from the onset. Working with the SA Government, architects and consultants LEDA played a key role in the appropriate product selection to protect the site. The perimeter of the oval is now protected with a combination of *PAS certified fixed (static) and retractable bollards*.

BOLLARDS



A row of stainless steel static bollards at one of the pedestrian access point.



A set of 7 x SP400 automatic retractable bollards installed across one of the main vehicle access points to the Oval.

BOLLARDS

Protecting Electric Vehicle Chargers

Another NRMA electric vehicle fast charging site protected with LEDA's *Aegis steel bollards*.



LEDA are assisting the NRMA as they conduct a rollout of charging sites across NSW. In this instance the site is in Jindabyne.

Star Casinos

LEDA's engineers have assisted in designing, manufacturing and installing *high security crash rated bollards* for the entrance areas at the Star Casinos in Sydney and Gold Coast.

At the Sydney Casino we were faced with the added task of disguising the security bollards. This was done by fitting stainless steel sleeves with the *Star* logo engraved on the lid. The bollard sleeves were then finished with a bronze metallic finish.

In addition LED lighting was incorporated in to the base of the bollard sleeves resulting in an aesthetically attractive outcome.

At the Gold Coast Casino it was simply a case of installing physical barrier as a part of security upgrade at the front entrance for the recent Commonwealth Games. The front facade and main entrance of the building was secured by installing a row of LEDA certified and tested shallow mount bollards fitted with stainless steel sleeves.



Perth Stadium - *Bus Interchange*

Having installed over a thousand Architectural and Security Bollards at the new Perth stadium in 2017 LEDA was again called on to assist the WA Main Roads department in the design, manufacture and installation of a queuing system for the stadium's bus interchange across the Swan River.

The attractive design involved the supply of some 330 *stainless steel bollards with curved wave shaped handrails*.



BOLLARDS



The bollards and footings were engineered to specific impact ratings and installed into continual concrete strip footings. Despite the installation occurring during one of the Perth's wettest winters LEDA's WA team managed to finish the project on schedule and to the approval of all interested departments.

VicRoads Headquarters

More and more Government utilities are opting to install security bollards with *high impact ratings* to provide perimeter protection against *Hostile Vehicle Attack (HVA)* and those wishing to use a *Vehicle as a Weapon (VAAW)*.

In this instance LEDA's Victorian team installed a combination of *deep mount fixed bollards* at the rear of the building and *SP400 shallow mount bollards* to protect the entrance/reception areas.

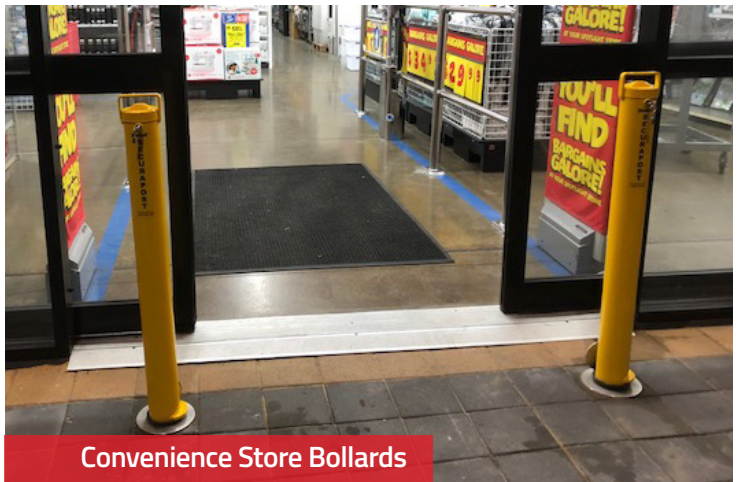


BOLLARDS

Protecting Convenience Stores

Accidents involving vehicle ingress at convenience stores and service stations are quite common which has led to LEDA installing more and more bollard protection at these venues.

As the potential speed of the vehicles is normally limited at these sites ample protection can be achieved with *heavy duty 80NB Securapost bollards*. In most instances a combination of fixed and removable models are required.



Convenience Store Bollards



Service Station Bollards



Shepparton Market Place

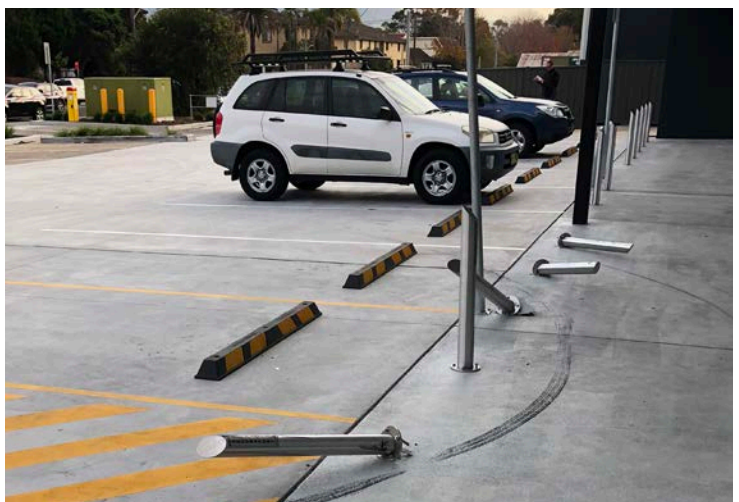
LEDA's Victorian office recently completed the installation of *stainless steel protective bollards* outside the KYO Sushi Restaurant in Shepparton.

After a number of close calls at a busy corner in the carpark roadway at the restaurant's outside dining area, the centre decided to provide protection to the diners and pedestrians there by utilising LEDA's high strength 150NB bollards.

Choosing the Wrong Bollard

No matter how often our sales staff advise clients about the importance of firmly securing bollards into the pavement we still see *base plate bollards* installed relying on masonry anchor fixings which provide little or no impact resistance.

In this instance an elderly gentleman accidentally hit the accelerator rather than the brake resulting in the damage pictured. Fortunately in this occasion the vehicle did not penetrate the building.



Manual Swing Gates

Our Sydney staff recently installed these **large double swing gates** and **premier fencing** at the Korean **Sae Soon Presbyterian Church** proving a 10m vehicle access opening.

GATES



The gates were raised to accommodate the sloping site which in turn increased the clear opening below the gate to more than our normal height recommendation. To offset this and keep the maximum distance below 200mm we installed a row of speed humps.

Toowoomba City Gates

On a recent sales trip to Toowoomba Donna Turner from our Brisbane office took some photos of a number of successful gate installations LEDA have completed.

The sites include a large 10 metres **cantilever gate** at the Toowoomba Water Treatment Plant and several even larger 12 metres cantilever gates at the Commercial Waste Transfer Station.



GATES

H/D Manual Boom Gates

Two of these 7.0 metres wide *boom gates* were installed at the Jordon Spring bus link by LEDA's NSW installation team.



These very heavy duty boom gates are manufactured to the *NSW Roads and Maritime* specification.

Trusty TMH60 Boom Gates

Over the past 15-20 years LEDA have literally supplied and installed thousands of these extremely reliable and low maintenance boom gates.



One of the main reasons for this reliability is the 100% duty cycle torque motor.

Using alternating current the units do not require limit switches or friction clutches that makes this product the right choice for sites requiring frequent vehicular access.

GATES

Modular Sliding Gate

With the recent innovations in LEDA's product offering, the increasingly popular modular sliding gate is often being sought by schools and businesses on a budget.



In this case, Patterson Building was working on capital upgrades to Elderslie High School in South Western Sydney and approached LEDA about supply of fencing and gates for the school. The 3m width of roadway was a perfect fit for the *modular cantilever gate* which was installed along with 40m of *premier fence* and a *double pedestrian gate*. The installation went smoothly and left the school with a new professional looking gate and fencing at the building's perimeter.



Fox Studio Sydney

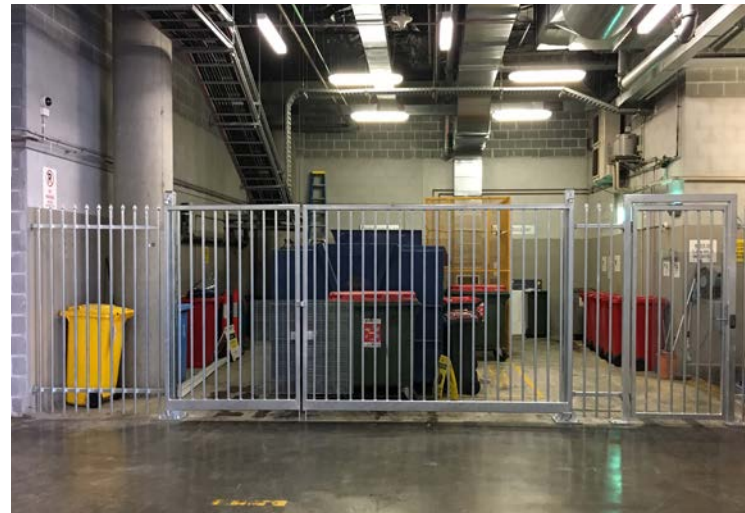
LEDA's Sydney install team led by David Mead recently installed this *dual turnstile* and *pedestrian gate* at the Moore Park Fox Studio.

The installation is in a secure area of the complex and is primarily for staff access control. David advised that the install went smoothly without any hitches.

Project One Cage

Project management firm Project One approached LEDA with the aim of assisting in loading dock security for Commonwealth Bank offices at Sydney Olympic Park.

The project involved manufacturing and installing a custom loading dock garbage cage. LEDA staff inspected the site to measure up and worked with the client to design a *gate with differing leaf sizes* which complied with the client's safety concerns. The cage was hot dip galvanised to match the adjacent fittings and successfully installed in a day.



BIKE PARKING

Cinema Bike Parking

Our Sydney office had an unusual request recently which involved supply and install of bike parking for cyclists at Reading Cinemas Auburn complex.



Happy to oblige we recommended and installed eight of our *stainless steel SBR475B rails* that can provide secure bike parking for up to sixteen cyclists.

Mount Compass Area School

Tony Hudson our SA State Manager sent us details of a bicycle parking project recently completed for the Mt Compass School which is in the country south of Adelaide.

The completed project using our *CBR4SC Securabike racks* provides secure parking for 56 bikes and 24 scooters.



Domestic Bike Shelter

LEDA is mainly involved from the design stage with Architects to create bike parking and end of journey facilities however our QLD office recently assisted with a residential home to create a clutter free bike storage for an active family.

It involved our *BRV26A racks* that provides semi vertical storage for up to 6 bicycles.

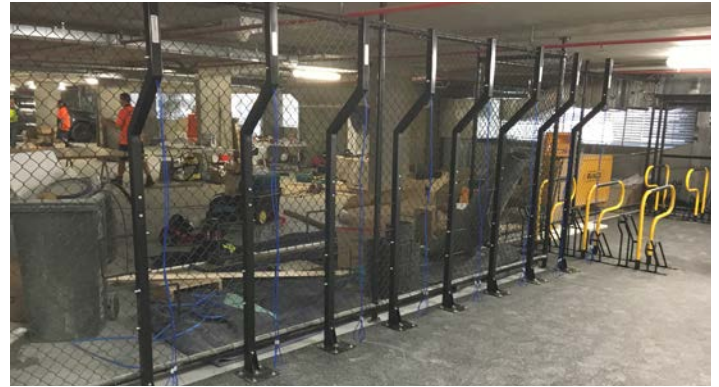
End of Journey Hub

LEDA's Queensland office was pleased to assist the architects in assisting with the design and installation of this EOJ bike parking facility.



It involved the installation of a combination of *horizontal and vertical bike racks* to best utilise the space available as well as the installation of one of our *Securabike repair stations*. The project had very short lead times which our staff were able to accommodate and finish the project on time.

BIKE PARKING



Bike Parking Revamp

When completed by LEDA several years ago this bike parking facility in Brisbane CBD was designed to cater for over 600 cyclists with parking over three basement levels.



LEDA recently assisted in a revamp of the facilities in order to improve utilisation and greater use of the facilities.



Australia's Favourite Bike Rack

Our *CBR4SC* has long been the country's favourite and most widely installed bike rack for good reason.

It is popular with architects and builders as the design optimises the number of bicycles that can be catered for in a given area. It is also an economical option and being flat packed it is easy to transport. And finally cyclists like the CBR's leaning rail design which not only let them to secure the back wheel and frame of their bicycle it also provides protection from accidental damage from adjoining bikes.



BIKE PARKING INTERNATIONAL

Auckland Bike Cage

Securabike NZ distributor **CAM** recently installed a **Bike Cage** for Auckland War Memorial Museum. We built a smaller cage for them about a year ago which they had quickly outgrown.

This cage was fitted with our popular **CBR4SCG racks and BR11 bike rails**.



Bike Cage, NZ

This year War Memorial Museum won the **Supreme Travel Wise Choices Award** for their sustainable travel plan for staff.



Bike Racks, Chile

Bike Racks from Chile

Securabike Chile distributor **Servicios Generales** recently shared this pic located in Maipu district of Santiago.

The project involved supply and installation of 30 **Securabike BR158B Sentry bike racks** for a residential apartment complex. The sentry racks that were installed throughout the site can accommodate both residents and visitors' bicycles.

Singapore Bike Racks

Featured is a project for a hospital in Singapore shared by our Singapore distributor **Hiap Soon**.

The project involved **Securabike SCBR4SCTM bike racks**.

As seen in the picture our bike racks are well utilised by visitors and hospital staff parking their bicycles conveniently.



Bike Racks, Singapore

Science Centre Shelter

Science North is Canada's 2nd largest science centre and Northern Ontario's most popular tourist destination, located in Sudbury, Ontario, Canada.

BIKE PARKING USA & CANADA



To support alternative means of transportation and serve Science North's green agenda, the centre opened a new covered bike shelter. The shelter contains *Securabike BR11B rails* accommodating 18 bikes allowing visitors and employees of the centre to park their bikes conveniently.

Attractive Bike Shelter

Duo-Gard our North American Securabike distributor recently completed this large bike parking facility in Ottawa, Ontario.

The attractive shelter is their Arlington model, which is totally enclosed providing excellent weather protection for employees' bicycles.

There are 121 of our *Securabike BR11B bike rails* providing secure bicycle parking for up to 242 cyclists.



PROTECTING PUBLIC SPACES

SECURACCESS

Surface Guard Trial for Brisbane City Council



Surface Guard Trial Setup in Progress

Successfully Crash Tested

2.5 tonne vehicle @ 48Kmph

{IWA 14: V12,500(NIG)/48/90:4.5}

7.2 tonne vehicle @ 32Kmph

{IWA 14: V17,200(N3C)/32/90:4.8}

Several months ago LEDA conducted a demonstration of our temporary security *Surface Guard* for Brisbane city council.

The rapidly deployable system was trialled at BCC's north side works depot.

In addition to BCC staff, representatives from two Brisbane Universities and Queensland Police attended the demonstration. By all accounts all that attended were impressed with the ease and speed with which the Surface Guard barriers were deployed.

Surface Guard units can be anchored:

- Utilising existing street furniture elements
- Drain gully attachments
- Energy absorbing straps

These straps can be tied to any existing streetscape elements like lamp posts. It absorbs most of the energy during impact.





LEDA CHINA HAS A RANGE OF ARCHITECTURAL & SECURITY BOLLARDS AND BICYCLE PARKING PRODUCTS

LEDA CHINA



ledasecurity.com.cn

LEDA commenced Australia operations in 1994 and has its main manufacturing plant located at Tuggerah NSW. In 2012, LEDA opened its own factory and offices in Ningbo China, to service the growing bike parking industry in Australia as well as catering for global markets.

LEDA China range focuses on 2 core product areas:

Securapost

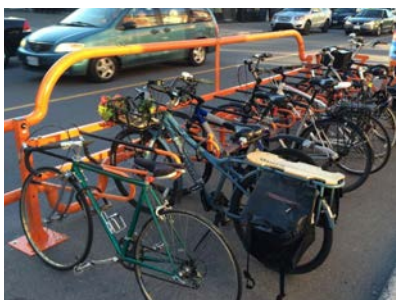
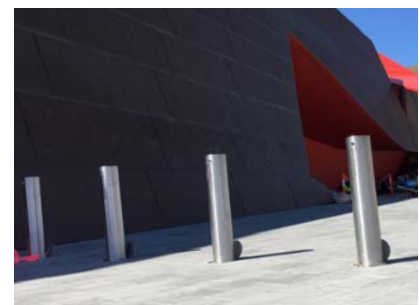
- Security Bollards
- Architectural Bollards
- Industrial Bollards
- Retractable Bollards
- Lighting Bollards

Securabike

- Bicycle racks
- Bicycle lockers
- Bicycle rails
- Bicycle cages
- Bicycle shelters
- Bicycle repair station

Comprehensive brochures and technical literature on the complete range of LEDA's architectural and security products are available on request or visit the websites:

ledasecurity.com.cn
securabike.com.cn



Call LEDA China
+86 574 8856 8111



MESSAGE FROM THE MANAGING DIRECTOR

As we are now well into the final quarter of 2018 we are able to look back at a great year of achievements for LEDA.

During the course of the year we have been successfully awarded a number of major *High Security* projects to provide physical security protection to high profile locations including:

- Adelaide Oval
- Victorian Parliament
- Supreme Court Canberra
- Perth Stadium Bus Interchange
- Melbourne Cricket Ground
- Central Market Adelaide

Being awarded with these multimillion dollar projects are the consequence of our reputation and the efforts of very talented LEDA team. While it is very satisfying to achieve these high profile projects our LEDA staff are successfully completing hundreds of smaller ones every month. In addition, there are many other HVM and high security projects for security reasons we are unable to mention. As a consequence of this increased activity we have seen sales growth of over 25% this year which is an excellent accomplishment. It has also seen our Australian staff levels increasing as a result.

At the same time our LEDA subsidiary in China is playing a key role in providing us with increased levels of products and stainless steel raw materials as demand in Australia have reached unprecedented levels. Our Ningbo China operation is now in its 8th year of operation and continues to grow each year. Initially started to manufacture our *Securabike* bicycle parking products the LEDA China team have now expanded their manufacturing facilities and are exporting a growing range of *Architectural and Security Bollards*. With the support and technology from LEDA Australia they are also starting to focus their attention to generate sales internally within China.

We should also mention that all of the products featured in the *International Bike Parking Section* of this newsletter were manufactured and supplied out of LEDA China plant.

David R. Matthews
Managing Director

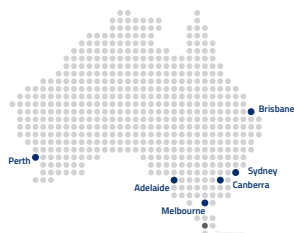
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