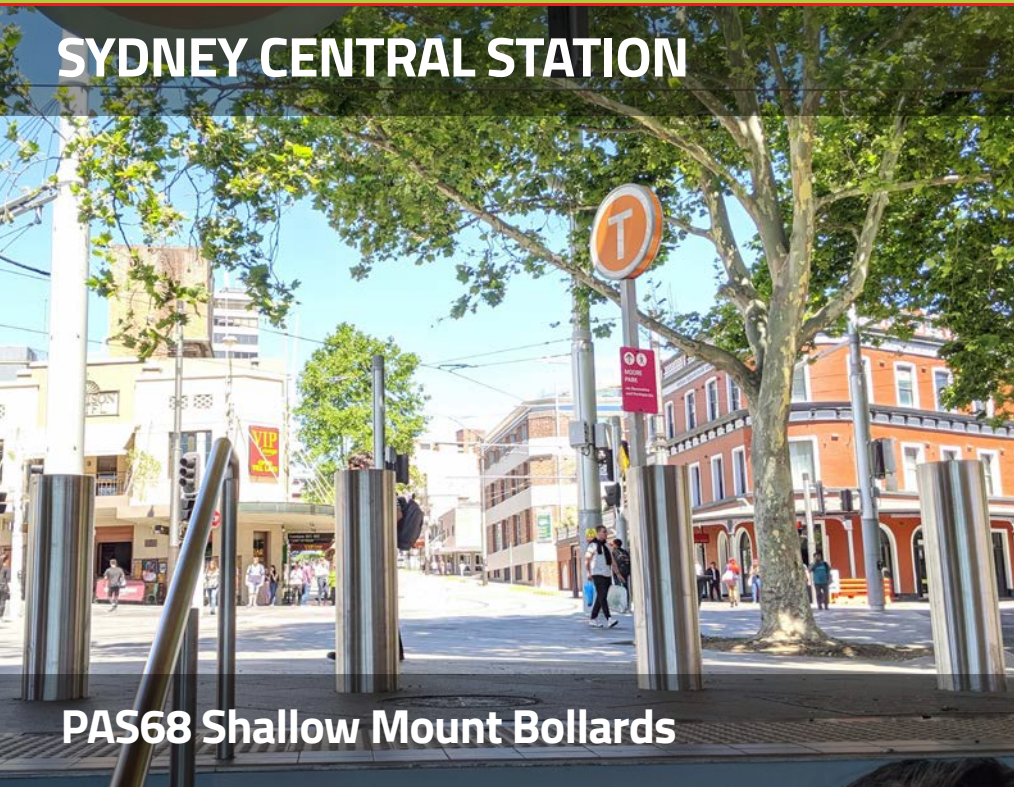


perimeter

SECURITY PRODUCT NEWS

SYDNEY CENTRAL STATION



PAS68 Shallow Mount Bollards



Protecting Crowded Venues - PAS68 Telescopic Bollards



LEDA Automatic Gates

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BOLLARDS

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LEDA ARA NEWS

LEDA ARA EOT Division

BOLLARDS

Sydney Coliseum Theatre

LEDA's barrier infill bollards have been developed to impede and prevent vehicular ram raids, while still allowing easy pedestrian access.

We recently supplied and installed **150NB stainless steel barrier infill locking and removable bollards** protecting the newly built Coliseum Theatre located in Rooty Hill, NSW.



Rooty Hill RSL, Removable Bollards

Securapost Locking & Removable Bollard

Securapost **SP90R locking and removable** bollard has been the most widely recognised security bollard with over 200,000 successful installations in Australia.

LEDA supplied and installed rows of SP90R at Royal Randwick Racecourse vehicle entry area which is adjacent to the Turf Club's admin building. These locking and removable bollards are easy to remove manually, using a key, providing access to staff vehicle and service trucks.



Brisbane Airport, Removable Bollards

Brisbane Airport

Another successful project completed recently where our QLD team supplied and installed **Securapost padlock removable bollards**.

LEDA has installed several '**Sentinel Series**' removable bollards for shopping centres, retail outlets, warehouses, industrial complexes and service stations protecting property perimeters, gateways and vehicular entrances.

In this project, our team installed heavy duty padlock removable bollards at Brisbane Airport allowing only authorised vehicles to enter and exit the site.

Protecting Crowded Venues

As seen overseas, vehicle attacks on crowded places such as city centres and CBDs, shopping malls, stadiums and large venues or public spaces where people gather, continue to be attractive targets for terrorists. Preventative physical security measures are required to be implemented to mitigate the likelihood of the identified risk occurring and causing damage to property, and harm to people and staff.



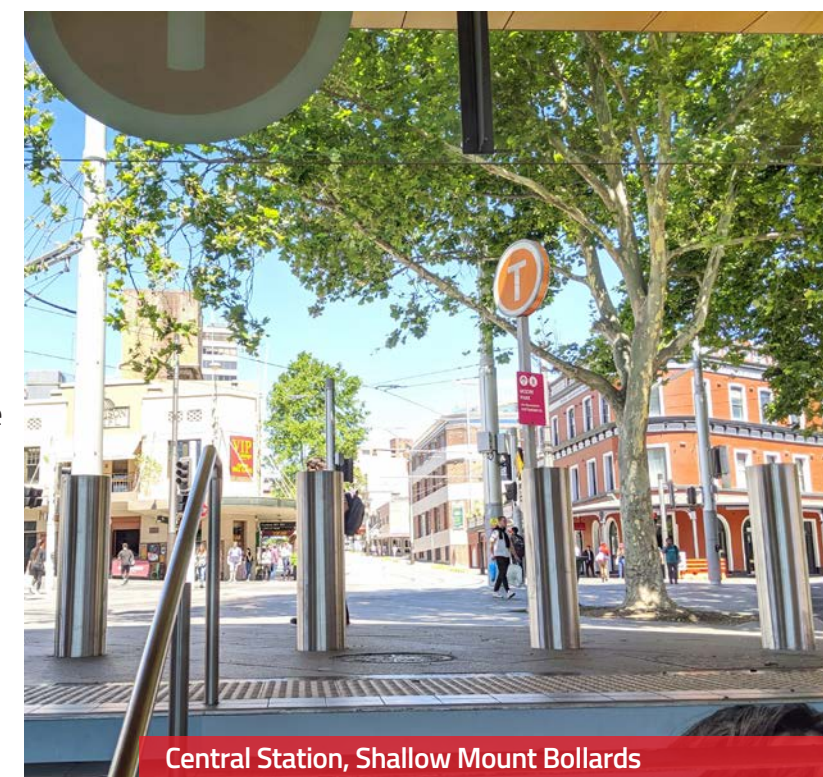
Melbourne Cricket Ground, PAS68 Bollards

The Melbourne Cricket Ground is the world's famous sporting venue, where large crowds frequently visit to watch their favourite sports. Our VIC installation team recently installed **PAS68 telescopic retractable and static bollards** at MCG's bus drop off junction protecting people against any wayward vehicles. The retractable bollards provide access to authorised vehicles only, when required.

Shallow Mount Bollards

Installing high security and anti terrorist bollard is normally required around the perimeter of buildings located in CBD locations. In many instances it may be impossible to obtain the required depth of footing or be able to excavate around existing services. LEDA ATG shallow mount bollard system provides a solution for these situations.

Our NSW installation team supplied and installed **PAS68 shallow mount bollards** at the very busy Central railway station in Sydney, protecting large number of people commuting to work, home and other locations. This shallow mount **biscuit system** requires a depth of less than 200mm causing less disruption during installation.



Central Station, Shallow Mount Bollards

BOLLARDS

Physical security and Hostile Vehicle Mitigation have become, unfortunately, mandatory measures especially in major capital cities. Adelaide being the cosmopolitan coastal capital and the fifth most populous city of Australia, requires effective perimeter protection.

The South Australian Government has taken a lead in Australia by initiating and protecting Adelaide's iconic and key locations that includes **Adelaide Oval, Adelaide Central Market and Adelaide Airport** - where large number of people congregate. *We featured news stories about the Adelaide Oval HVM upgrade in our previous PERIMETER issues - 51 & 52.*



HOSTILE VEHICLE MITIGATION



BOLLARDS

- Adelaide Oval
- Adelaide Central Market
- Adelaide Airport

(HVM) PROJECTS - ADELAIDE

Adelaide Central Market

Since established in 1869, the Adelaide Central Market has been the largest fresh produce market in the world where people from different parts of the state gather to buy fruits, vegetables, meat and seafood.

Being one of the busiest markets in the country means it requires high security and superior perimeter protection. The LEDA SA team supplied and installed a number of **PAS68 shallow and deep mount fixed and retractable bollards** securing all entries to the market from any hostile or accidental vehicle attacks. As seen in the picture the project involved certain challenging areas where we installed shallow mount telescopic retractable bollards and shallow mount fixed bollards around the existing pillar in a curved arrangement.

LEDA in house engineering team can assist in projects, like this, if footing depth or existing structures and underlying services becomes a constraint.

Adelaide Central Market, PAS68 Bollards

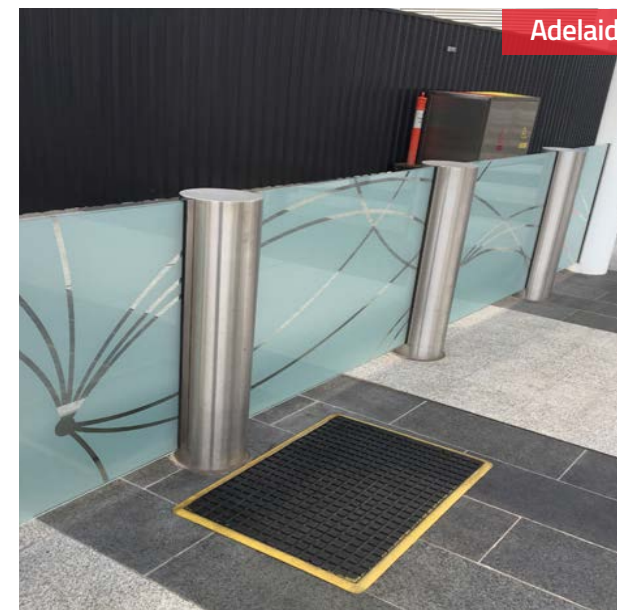


Adelaide Airport Taxi Drop Off

This is another successful **HVM (Hostile Vehicle Mitigation) bollards** project supplied and installed by our SA team.

This project involves LEDA locally manufactured **PAS68 rated bollards and shallow mount PAS68 bollards** from the UK. These crash rated bollards protect people and staff at the taxi drop off area from any 'out of control' or intentional vehicle attacks.

The PAS68 bollards located between the columns were fitted with glazed glass panels assisting in the separation of pedestrians and traffic.



Adelaide Airport, PAS68 Crash Rated Bollards



SECURAGATE GATES, TURNSTILES & FENCING

LEDA Boom Gates

Boom gates can perform the majority of access control functions for regulating vehicle traffic in applications such as car parks through to high security applications.

LEDA has supplied and installed thousands of units across Australia, the majority of which LEDA's technicians continue to service and maintain. As seen in the picture, our *TMH60 boom gate* provides access to vehicles entering and leaving the



LEDA TMH60 Boom Gate

parking area and operates continuously – **100% duty cycle**. 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.

The combination of LEDA's proven and reliable electric motors and lever mechanism, represents a very simple and extremely reliable drive system. It allows for short opening and closing times without the boom arm bouncing at the end position. The lever arm system locks the boom at both end positions without the need for a receiving post. Factory-set counterweights are designed in all boom arms, allowing easy manual lift of automatic booms in the event of power outages.

Our boom gates are also suitable for warehouses and large factories where forklifts, scissor lifts and other vehicles are in operation at all times. Recently our NSW team supplied 7 x TMH60 boom gates to Wrigley's factory with push buttons mounted on the gate post providing access to forklifts and scissor lifts operating inside the factory.

Our boom gates can be fitted with articulated arms if there is opening height restrictions and can be integrated with range of access control systems.



Wrigley Factory, Boom Gate

LEDA Swing Gates

LEDA has a range of track, cantilever, bifold and swing gates suitable for a variety of applications securing the perimeter of any site. Swing gates can be either single or dual leaf and can be operated manually or automated, with bifold options also available.



LEDA Automatic 2 x Swing Gate with Card Reader Bollard

We recently supplied and installed *automatic swing gates* for Marist Catholic College, a co-educational high school located in Penshurst – a southern suburb of Sydney. LEDA installed 2 x single swing gate integrated with card reader bollard at the main entrance of the college allowing vehicles to enter and exit the building. There is a pedestrian gate installed next to the swing gates providing access to the students and staff entering and leaving the college.

LEDA also installed a single swing gate integrated with card reader bollard and signal lights at the back entrance of the building for staff vehicle access. The red and green traffic lights effectively control vehicle movements in a two way road way.

LEDA gate motors can be programmed and integrated with any access control, CCTV and signalling systems to meet the site specific requirements.



LEDA Automatic Swing Gate

SECURAGATE GATES, TURNSTILES & FENCING

Pharmacy Guild Gate

LEDA QLD branch was contacted to design and install a customised engineered gate, to meet the new architectural design specifications, for Pharmacy Guild of Australia.



Pharmacy Guild, Cantilever Gate

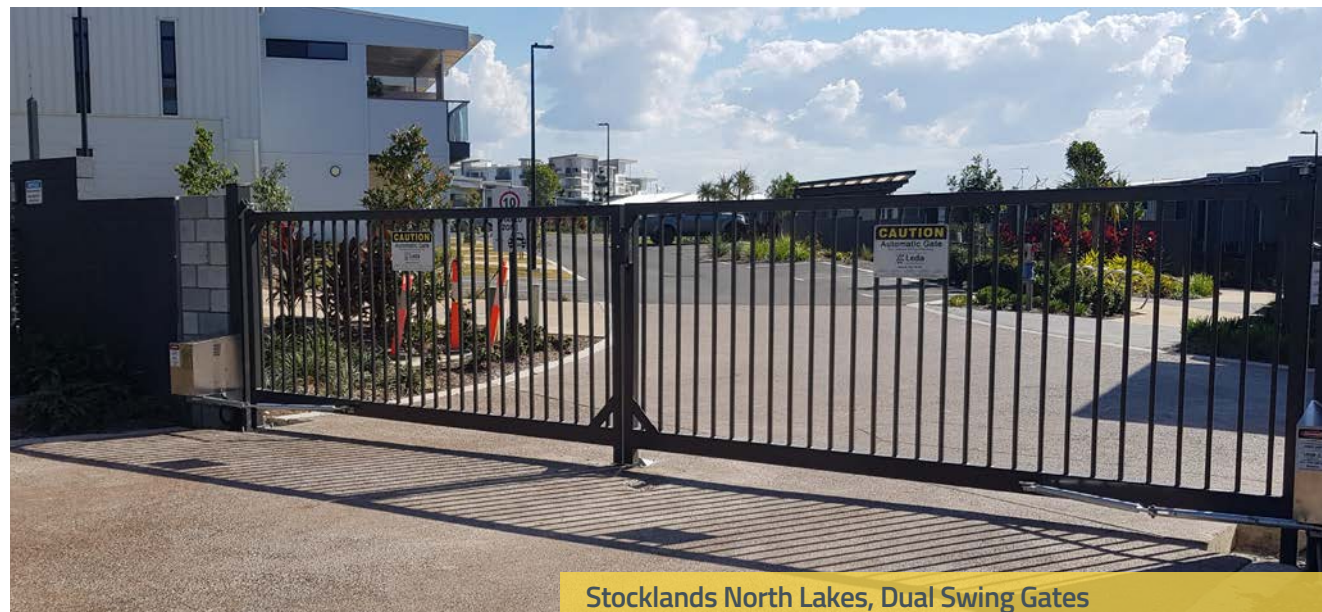
We supplied and installed a 5.5m wide racked *undercarriage cantilever gate*, in a specific colour, with premium high duty cycle motor at the building's carpark entry.

Undercarriage system is designed for sites with insufficient room to install a running rail, or where site conditions such as sand or snow drifts, effect operation.

Dual Swing Gates - North Lakes

Another successful automatic gate project was completed recently with the installation of *dual swing gates* at the North Lakes residential complex in Queensland.

LEDA was contacted to replace the existing gate with an automated industrial grade swing gates providing access to residents and authorised visitors only thereby keeping the complex safe and secure all the time.



Stocklands North Lakes, Dual Swing Gates

LEDA's PAS170 Range

LEDA has been at the forefront of designing, manufacturing, installing and servicing high security and anti-terrorists products including static and retractable bollards, crash rated gates and road blockers protecting Australian people and its assets for more than a quarter of a century.

LEDA is continuing to be involved in many R&D and 'impact testing' programs, both here in Australia and in the United Kingdom, providing invaluable data for Security Engineers and Project Managers, particularly in the area of Hostile Vehicle Mitigation (HVM). Consequently, LEDA has developed an expansive range of PAS68 impact tested bollards capable of stopping vehicles up to 7.5 tonne travelling at a high velocity of 48/64/80 Km/hr.



Recently, we have had increased interest from a number of national retailers asked for assistance with lower speed bollard enquiries which has prompted LEDA to investigate engineering and developing a number of new crash tested PAS170 bollards. PAS 170 is an international standard to test the performance of a single bollard when hit by a 2.5 tonne vehicle travelling at a velocity 16 or 32 Km/hr.

Applications of PAS170 - Single Crash Tested Bollards rated 2.5t at 16 or 32Km/hr

- Protection of public spaces
- National retail outlets
- Shopping centres and malls
- Convenience stores
- Service stations
- Schools and university carparks
- Building forecourts and perimeters
- Warehouses & factories

For more information on LEDA's PAS170 range please contact our sales offices and our HVM staff can assist in the product selection process.



PROTECTING PUBLIC SPACES

SECURACCESS

PROTECTING PUBLIC SPACES

SECURACCESS

CRASH TESTED PRODUCTS

V/7500(N2)/64/90:0.0(penetration)/6.10

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Ever since 2008 when we first installed Hostile Vehicle Mitigation (HVM) bollards at the iconic Sydney Opera House, LEDA has been at the forefront educating, sharing knowledge and experience about PAS68 & IWA14 crash tested products with consultants, specifiers, governments and decision makers. As we are getting more and more enquiries for high security impact tested products we wanted to take this opportunity to emphasize the importance of vehicle penetration, which is often overlooked or not taken into consideration.

'Vehicle Penetration' is a critical factor to be considered when a HVM bollard is specified or procured from a supplier. Situations where stand off is a major factor - that is distance on the protected side of the bollard to the building facade or places expected to be crowded - as every metre counts, minimal penetration is vital. Contact LEDA for more technical information & product advice.

LEDA has a range of crash tested products with

ZERO PENETRATION



Bike Racks for Commercial Building

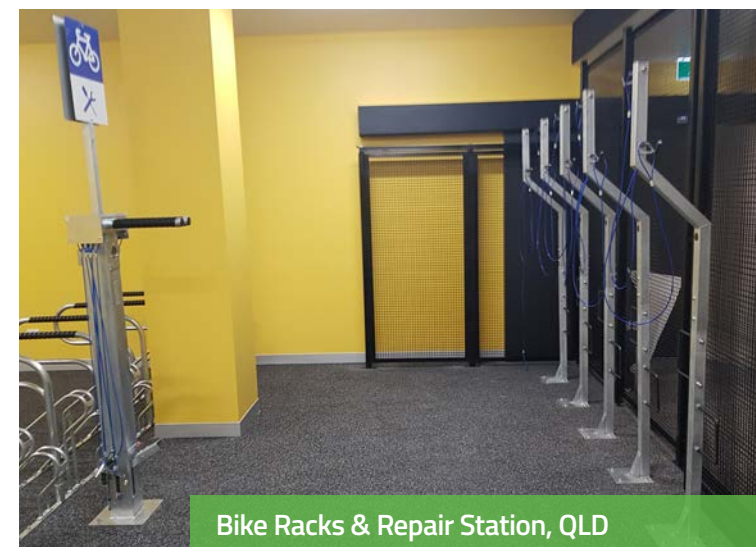
Transport house is a vibrant commercial office building located in the centre of Fortitude Valley QLD, where we installed Securabike bike parking products.

CBR45C, BR2101 bike racks and BBR501 repair station were installed allowing retail tenants and staff to park their bikes in this newly built bike parking facility.



Bike Racks & Repair Station, QLD

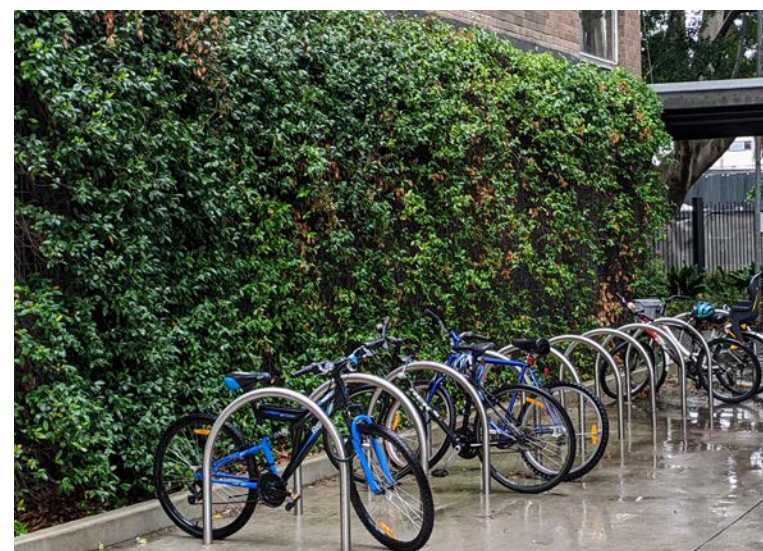
BIKE PARKING



Bike Racks for University

LEDA has a range of bicycle storage options for schools and universities including bike rails, racks, lockers, repair stations, shelters, cages and scooter racks.

Recently, our NSW team installed a large volume of *stainless steel bike rails SBR85* at different locations all around the University of New South Wales (UNSW) campus. Many students and staff who use bicycle to reach out to their faculty are well utilising our bike rails for parking, as seen in the pictures.



University of New South Wales Bike Racks

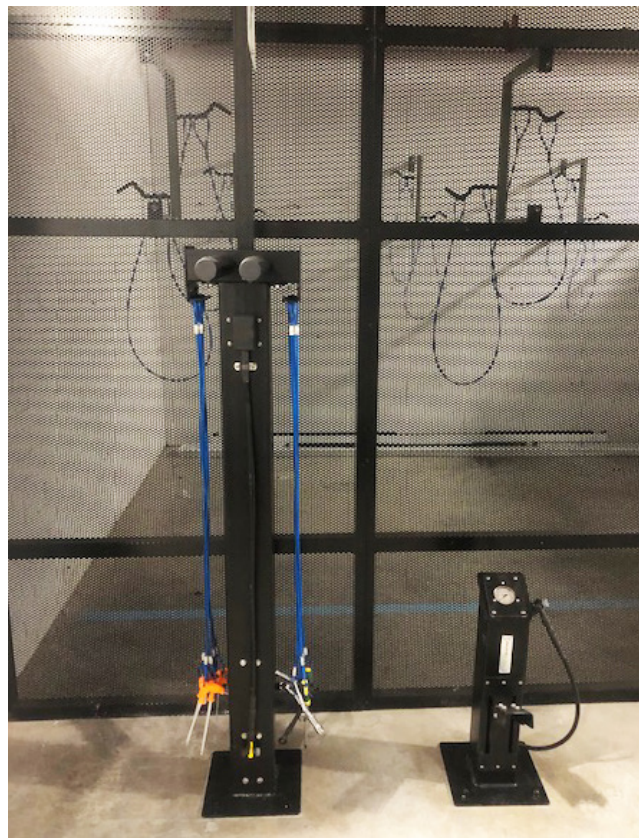


BIKE PARKING

EOT Facility - Perth

LEDA WA was contacted by FDC Construction & Fitout to install bike racks for an End-of-Trip (EOT) facility located in Georges Terrace, Perth.

Securabike *wall mounted bike racks, repair station and pumping station* were installed by our WA team. They were all supplied in a special pale eucalyptus and matt black finish matching with their interior look and background.



Vertical Bike Racks, SA

EOT Facility - GPO Exchange

Located in the heart of Adelaide City, GPO Exchange, this iconic landmark encompasses end-of-trip amenities and secure bike parking facilities.

LEDA recently installed *BR2101 vertical racks and bicycle repair station BBR501* allowing around 200 bicycles to be parked safely and securely. All our racks and repair station were supplied in satin black finish, as required in the project. LEDA can assist with design and layout drawings that will best utilise the space available and at the same time be the most effective economic solution.

Bike Racks for School

Black Forest Primary School located in Adelaide's inner southwest has a proud history and strong focus on high quality teaching. The decision makers of the school approached LEDA for bike racks.

Our SA branch supplied and installed *CBR4SCTM bike racks and lockable scooter racks SCR12L* close to the classrooms and administration block allowing students to park their bicycles and scooters securely.

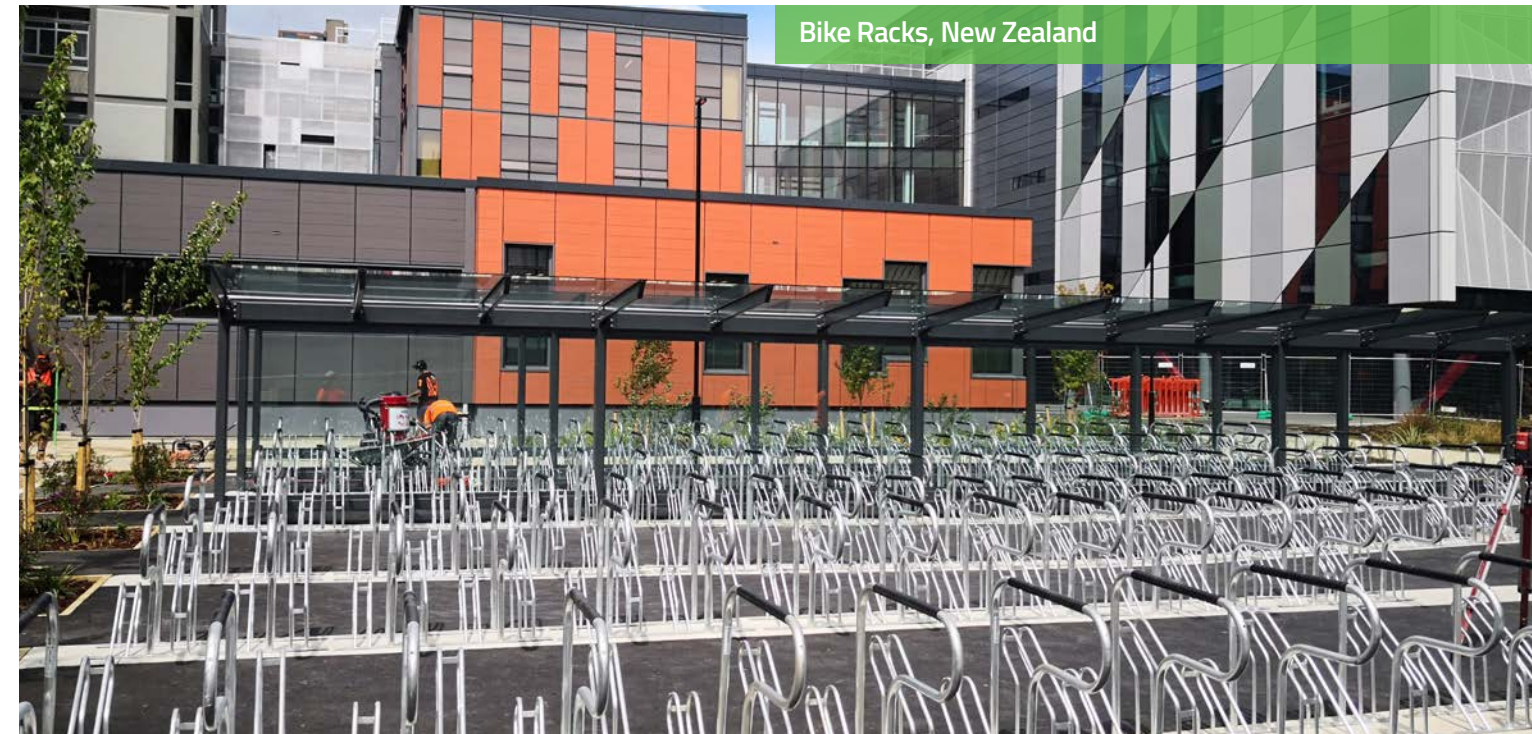


Bike Racks & Scooter Racks, SA

Bike Racks - NZ

Our NZ SecuraBike distributor, *CAM*, has recently completed a large project for University of Canterbury's Beatrice Tinsley Campus.

The project called for a high density bike parking to cater for 416 bicycles, rows of our popular *CBR4SCTM bike racks* were installed. The project also involved *BBRS01B bike repair station* allowing cyclist to carry any repair works. Feedback from the client has been extremely positive and this is now the most significant bike parking facility at the University of Canterbury.

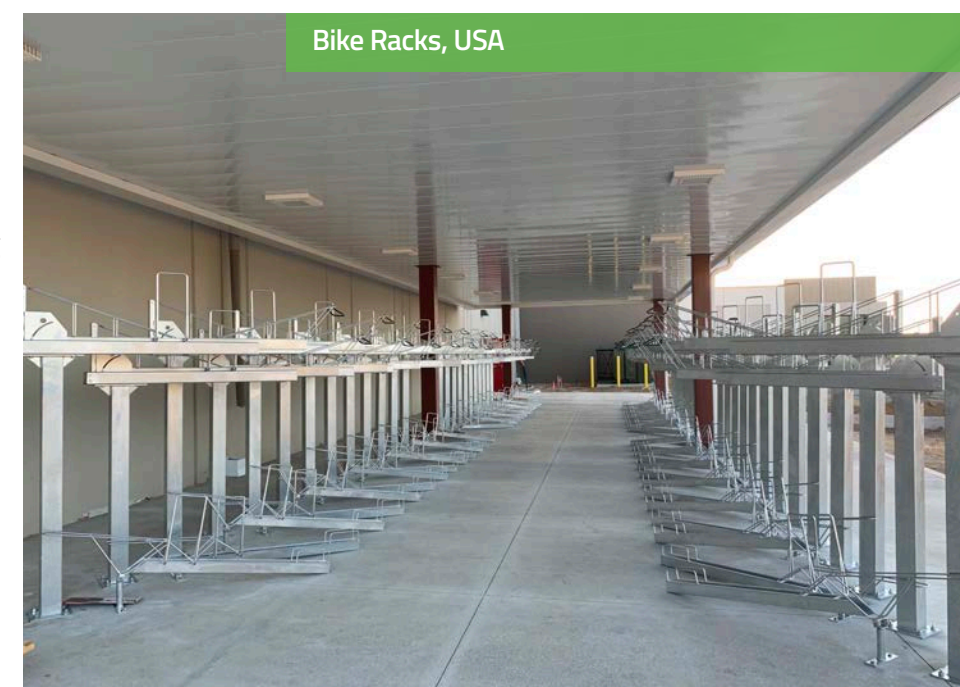


Bike Racks, New Zealand

Bike Racks - USA

Our USA SecuraBike distributor, *Duo-Gard*, is a leading innovator in custom canopies, shelters and outdoor structures including bike racks, rails and street furniture.

Very recently our US distributor finished a project for a major corporate retailer in Bakersfield, California, utilising our *CBR2GS dual height bike racks* allowing customers to park their bicycles prominently. The racks were supplied in galvanised finish matching well with the floor's bright look and background colour.



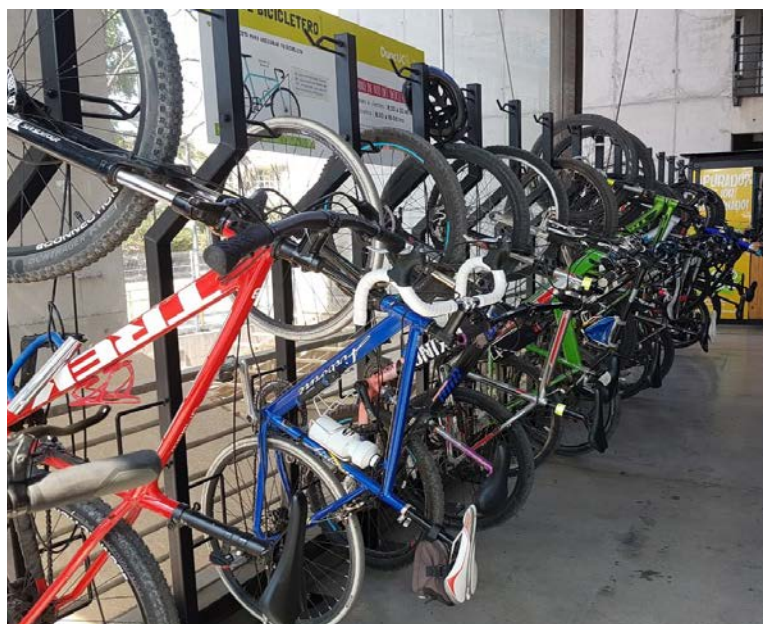
Bike Racks, USA

INTERNATIONAL BIKE PARKING

Bike Racks & Shelter - Chile

Our Chilean SecuraBike distributor has recently completed a major project for Duoc UC Institute, Puente Alto building in Santiago.

The project involved SecuraBike's popular *horizontal racks (CBR45C)* and *vertical racks (BR2101)* all painted in black. Large number of students attending different courses, staff and other visitors who ride bicycles utilise our racks to park their bikes conveniently and securely, as evidently seen in the picture.



Bike Racks & Shelters, Chile



Some of our racks were installed outside the building and they are being protected by our *bike shelter (BSS04)*. The shelter has been customised to accommodate more bike racks protecting bicycles and cyclists during arrival and departure.

As this location is prone to vandalism and theft, a specially designed *high security repair station* was installed outside the building, near the entrance, securing all the tools in a fully enclosed unit that can be locked during after hours and left open for cyclists allowing them to carry routine maintenance and repairs.

Both shelter and repair station were supplied in black painted finish matching with bike racks colour. Our SecuraBike Chile distributor would be able to assist in design and install of bike racks, shelters, lockers and repair stations for projects involving large volumes, in all parts of Chile.



ARA END OF TRIP

Jointly brought to you by

LEDA

Lockin

Made for Life.



RACK & LOCK YOUR BIKES



STORE & LOCK SAFELY



FRESHEN UP



HELP PROMOTE WELLNESS



LEDA, Lockin & ARA

Jointly can offer a range of products including bike racks, rails, repair stations, scooter racks and a variety of lockers for end-of-trip facilities including full design & fitout capabilities with ongoing cleaning & towel services.

Follow us



Call 1300 780 450

sales@ledasecurity.com.au

MESSAGE FROM THE CEO



What a challenging and interesting period we are all experiencing, I hope your business and people are safe and well as we deal with the fallout from Covid-19. LEDA as part of the ARA Group have implemented organisation wide controls to keep our customers and staff safe while we continue to operate and serve our customers.

We continue to see interest in perimeter security applications and bicycle parking requirements, not surprising considering we have all had to change our ways of getting around under Covid-19 restrictions. We have completed a number of innovative projects and some feature in this issue of *Perimeter*, of particular interest is Adelaide's Central Markets. Operating since 1869, this project required a sympathetic layout with very careful installation to avoid damage to the heritage buildings.

Also featuring in this issue is an introduction to **PAS170 bollards**, these are crash tested bollards that withstand an impact of a **2.5 tonne vehicle travelling at 16 Km/hr and 32 Km/hr**. These bollards offer verified protection against accidental impacts and criminal threats, and for the first time offer a crash tested product in the lower velocity category. Tested as a single bollard, they provide a flexible solution backed up by the PAS170 certification.

As interest in Hostile Vehicle Mitigation [HVM] grows, we have dedicated a page to **Penetration**, one of the most crucial but often overlooked aspects of the PAS68 rating. There is little benefit in installing a bollard that has 7m penetration along a 4m wide footpath. Contact LEDA to discuss your HVM performance requirements.

We are excited to feature the combined resources of ARA, including Lockin and LEDA to provide End of Trip [EOT] facilities as shown on page 15, call to discuss your next project and how we can deliver your complete EOT needs. Thank you for reading our latest edition of *Perimeter*, I hope you found it interesting and informative with more information available on our website www.ledasecurity.com.au - Stay well and stay safe as we deal with Covid-19.

Len Place

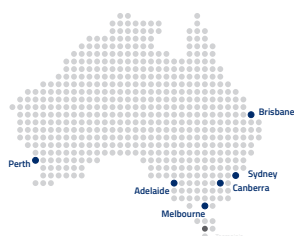
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