Pedestrian & Vehicle Control
Medium Duty “Energy Absorbing” Control Bollards

Vehicle No Parking & No Entry Control
Medium Duty or Heavy Duty “Energy Absorbing” Control Bollards

Property & Asset Protection
Heavy Duty “Energy Absorbing” Protecting Bollards

Security & Defence
Heavy Duty “Impact Attack” Defence Bollards

WE MANUFACTURE & SUPPLY PRODUCTS

Ideal for effective delineation of parking and for use in the protection of walls, vehicles and other valuables in all garages and surfaces parking applications. Manufactured from 100% recycled tyres, NJM Group Australian Bollards have ensured their premium wheel stops are superior; they will not rot, crack or wrap.

Flexible, allowing for conformity to contour on virtually any road surface, NJM Group Australian Bollards’ wheel stops are lightweight, easy to handle and can be installed by one person.

Complies with Australian Standards, AS 2890.1:2004

With a ribbed surface to prevent slipping, premium speed humps by NJM Group Australian Bollards are manufactured from 100% recycled rubber with other additives for durability. Our speed humps are made up of 500mm modules, each coming with two cat’s eyes which light up at night.

These premium speed humps can be customised to meet your desired length by adding additional modules. They also have a recess to inset nameplates or company branding.

Complies with Australian Standards, AS 2890.1:2004
OUR HISTORY

NJM Group was founded in 1992 with six employees in a 32 sq. metre facility. They began providing services to Universities, local and regional manufacturing Companies and Shell Australia within Victoria and Tasmania.

Today, NJM Group have expanded to incorporate Mining Companies, Railway Stations, local Councils and Shopping Centres Australia Wide and service customers from their 1,700 sq. metre warehouse/factory in Heidelberg West. We manufacture and distribute products which range from, but are not limited to:

• Bollards • Handrails • Bike racks • Wheel Stops
• Speed humps • Variable rate boards
• Steel staircases • Structural steel beams

We also provide engineering services such as steel fabrications, general steel repairs and deliver building and office maintenance/renovations. We have a range of Electronic Display Solutions and manufacture & supply components for the Ski Data systems. Our products are manufactured locally in our Heidelberg West factory; if we don’t have a bollard that suits your needs we can custom design a bollard to your exact requirements. We also offer a same day delivery service.

OUR COMMITMENT & VALUES

We are committed to providing products and services of a high quality that consistently meet and/or exceed our customer expectations and the Industry Standards. Our services are available 24/7 to cater to the need of our clients.

Customer Service
Our customers are our number one priority. We build strong customer relationships through:

• Dependable service
• Consistent high levels of quality workmanship
• Sourcing products and materials from quality approved suppliers
• Continuously improving efficiencies and productivity
• Providing innovative new products and services
• Constantly seeking new opportunities and markets
• Being customer focused and customer driven

Honesty & Integrity
We don’t compromise our values. We facilitate trust and long term relationships through:

• Open and honest communication
• Operating ethically at all times
• Always fulfilling our commitments

Employee Satisfaction and Involvement
Our employees are essential to our success. We must create and maintain an environment that promotes pride through:

• Workplace safety being of paramount importance
• Teamwork and continuous improvement with contributions from all involved
• Providing opportunities, rewards and training to support our growth individually and as a company

Corporate Citizenship
Being conscious of the community and environment in which we operate through:

• Supporting industry initiatives
• Embracing green building materials ensuring a sustainable environmental future
• Providing facilities to the highest environmental standards practicable
• Creating safe and secure employment

OUR PHILOSOPHY

At NJM Group “Service & Quality” shape our philosophy. We are dedicated to fulfilling the needs of our customers.

Our staff are engaged in direct sales and customer service and we believe there is no substitute for direct personal communication. Our team actively strives to learn and understand each of our customer’s service needs and product requirements. We offer superior quality products and pro-actively pursue faster and more efficient techniques to improve the cost and quality of our products and services.

We recognise that to better service our customers and to be productive and profitable, we must adopt new technologies and innovations beyond the traditional methods of the electrical & industrial supply industry. The next step for NJM Group is to increase our status as a Current Preferred Domestic Supplier of our services and to become a competitive International supplier of our superior Bollard Product.
PARKING SOLUTIONS

PARKING SOLUTIONS FOR CAR PARKS & TRUCK DEPOTS BY AUSTRALIAN BOLLARDS
WHEEL STOPS

Wheel Stops by NJM Group are ideal for effective delineation of parking and for use in the protection of walls, vehicles and other valuables in all garages and surfaces parking applications.

The following would be ideal locations: Airport, Hotels, Hospitals, Stadiums, Schools, Shopping Centres, Municipal Parking Lots, Restaurants, Train Stations, Homes, Industrial Buildings, Public and Private Surface Parking Facilities.

- Manufactured from 100% recycled tyres
- Superior construction & durability means these wheel stops won't warp, crack or rot
- Lightweight, easy to handle and can be installed by one person
- Yellow reflectors for increased visibility
- Approximately 1/5th the weight of concrete
- Greatly reduces transport and handling costs
- Resistant to UV, moisture, oil and extreme variations
- Flexible, allowing for conformity to contour on virtually any road surface
- Easy installation with Direct Stick adhesive or M12 x 300mm Road Spikes

SPECIFICATIONS FOR CARS & TRUCKS

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>MEASUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH</td>
<td>1650mm / 2000mm</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>100mm</td>
</tr>
<tr>
<td>WIDTH</td>
<td>160mm (at base)</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>19kg / 22kg</td>
</tr>
<tr>
<td>FIXING</td>
<td>3 / 4 20mm DIA Fixing Points</td>
</tr>
</tbody>
</table>
WHEEL STOP INSTALLATION INSTRUCTIONS

WHEEL STOPS TO CONCRETE

Using Adhesive
- Surfaces must be level, dry, and clean and dust free for best results.

- Use a sausage gun with disposable nozzle to spread the adhesive over the leading inside edges and bridges.

- For a neat glue line do not spread adhesive to outer edge of Wheel Stop. Leave a clearance from the outside edge to prevent foaming of adhesive from glue line.

- Position and leave undisturbed for 24 hours before subjecting to normal use. Full cure is seven days.

- Wear protective clothing. Gloves are essential. Avoid contact with skin.

Using Fastenings
For high use areas such as multi-level car parks with 90mm concrete topping on 75mm FLATSLAB floors etc. or other concrete surfaces.

- Use a suitable 12mm or 16mm galvanised or zinc plated fastening with 30mm washer if required. We can quote for a Screw Bolt fixing 150 x 12mm with a 25mm head. Embedded depth to be a minimum of 60mm into the concrete.

- If using our x 12mm screw bolt drill a 14mm hole into the concrete 75mm deep.

- Use an air driven ratchet gun, 13mm SDS electric drill or cordless impact driver with a 20mm driver bit.

- Set on a low torque until correct torque is established.

- Do not over tighten these fastenings.

WHEEL STOPS TO ASPHALT

- Use a 12mm x 250mm masonry drill bit to drill through the bitumen into the base course.

- Fix the 12mm x 300mm fixing through the bitumen and into the base course using an impact driver or sledgehammer.

- Punch the fixing into the countersink-fixing hole until tight.

WHEEL STOPS OVER PAVERS

- Use a 14mm x 100mm masonry drill bit to drill right through the paving into the base course.

- Using a 12mm x 250mm drill continue drilling to a depth of 230mm.

- Drive the x 300mm fixing through the Wheel Stop into the base course using a sledgehammer.
SPEED HUMPS

**Speed Humps by NJM Group** are with a ribbed surface to prevent slipping is manufactured from 100% recycled rubber with other additives for durability. The yellow components have a level of two in 1000 cadmium yellow to minimize fading. The black and yellow sections allow product to be abutted together to make alternative striped patterns. These can then be made up to your required length by adding End Caps. They also have a recess to insert nameplate/branding.

Each 500mm section comes with two cats eyes which light up at night time and have a 30mm base channel to allow for cabling and plumbing. Each 500mm module has four fastening holes of 14mm, two of which are slotted by 55mm. End caps have two fastening holes of 14mm. This speed hump is suitable for use in coned areas of covered and level car Parks, commercial premises, petrol stations etc, anywhere that you wish to further check the speed of vehicles travelling at 30km/h or less.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>STYLE</th>
</tr>
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<tbody>
<tr>
<td>ABSH500Y</td>
<td>500mm Yellow Module</td>
</tr>
<tr>
<td>ABSH500B</td>
<td>500mm Black Module</td>
</tr>
<tr>
<td>ABEC320Y</td>
<td>320mm Yellow End Cap</td>
</tr>
<tr>
<td>ABEC320B</td>
<td>320mm Black End Cap</td>
</tr>
<tr>
<td>Road Spike 200</td>
<td>Fixings for Asphalt</td>
</tr>
<tr>
<td>Wedge Anchor</td>
<td>Fixings for Concrete</td>
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</table>

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>500mm</th>
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</thead>
<tbody>
<tr>
<td>END CAP LENGTH</td>
<td>320mm</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>55mm (at maximum)</td>
</tr>
<tr>
<td>WIDTH</td>
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</tr>
<tr>
<td>WEIGHT</td>
<td>11kg</td>
</tr>
<tr>
<td>END CAP WEIGHT</td>
<td>5kg</td>
</tr>
</tbody>
</table>
SPEED HUMPS
INSTALLATION INSTRUCTIONS

SPEED HUMPS TO CONCRETE

Using Adhesive
Domestic and light commercial driveways only
• Surfaces must be clean and dust free for best results.

• Use polyurethane adhesive to achieve an effective footprint of 80% of the covered area.

• For neat glue line spread adhesive to within one centimetre of the inside edge of the Speed Hump to prevent adhesive excess squeezing out and foaming.

• Position and leave overnight.

• Normally Speed Hump can be driven over in hours. Full cure is seven days.

• Wear protective clothing. Gloves are essential. Avoid contact with skin.

Using Fastenings - As supplied
• Use the M16 x 50mm Drop-In Wedge Anchor with 40mm Bolt supplied.

• Insert the 30mm x 12mm washer into recessed hole.

• Drill a suitable 16mm hole using a masonry bit to a depth of 50mm.

• Use a punch or setting tool to set the anchor into the concrete to prevent it turning.

SPEED HUMPS TO ASPHALT

• Screw in 40mm bolt until tight.

• Four fastenings required per Speed Hump.

• Two fastenings required per End Cap.

• Other fastenings can be used such as a 12mm x 75mm

• Use the 30mm capped 250mm long road spike supplied for fixing to asphalt.

• Using a 12mm x 250mm masonry bit drill through the bitumen into the base course 250mm deep.

• Using a suitable sledgehammer tap the x 250mm Road Spike through the bitumen into the base course.

• Four Spikes required per Speed Hump.

• Two Spikes required per End Cap.
2.4.5.4 WHEEL STOPS

Wheel stops be provided where it is considered necessary to limit the travel of a vehicle into a parking space. shall meet requirements given below.

NOTES:

1. Typical of wheel stops are as follows:
   (a) Control of kerb overhang where inconvenient or hazardous for pedestrians,
   (b) Inhibiting contact with an end barrier or high kerb,
   (c) Inhibiting encroachment into an opposing parking space.

2. Wheel stops should be avoided in any situation where they may be in the path of pedestrians moving to or from parked vehicles, or crossing a car park for any other purpose.

Wheel stops shall between 90 and 100 in height, and 1650 ±50 mm in width. Where reverse-in parking is unlikely, e.g. 30, 45 and 60 degree angle parking modules with one-way aisles, or where occasional minor encroachment (up to about 400 mm) by reverse-in vehicle can be tolerated, e.g. over the kerb, wheel stop positions shall be set at the front-in position, if reverse-in parking is likely and encroachment over the end of the parking space cannot be tolerated, wheel stop positions shall be set at the rear-in position and all vehicles required to back in. Location of wheel stops with respect to the front of parking spaces is given Table 2.1 and illustrated in Figure 2.6.

2.4.5.5 Other Protective Devices

Protective devices shall be provided as necessary to protect parts of the building or other fixed objects or equipment from damage by vehicles. Such protection shall include devices to vehicle encroachment into pedestrian ways, stairs, doorways, lifts and the like. Appropriately located bollards are suitable for these purposes. Protective devices shall be clearly visible to drivers when in their normal driving position.

NOTES:

1. Wheel stop distances shown in this figure are for 100mm high wheel stops.

2. Wheel stop distances are set for the B85 vehicle. Some kerb overlap may occur if either a longer vehicle or, in the case of figure 2.6, an occasional reverse-in vehicle, uses space.

3. Wheel stop distances are set to allow 200mm clearance to the wall for the B85 vehicle. The clearance will be almost zero for D99 vehicle.

2.4.6 GRADIENTS WITHIN PARKING MODULES / 2.4.6.1 MAXIMUM GRADIENTS

The maximum gradients within a parking module including n motorcycle parking area shall be as follows:

- Measured parallel to the angle of parking - 1 in 20 (5%)
- Measured in any other direction - 1 in 16 (6.25%)
- Within parking spaces for people with 2890.6.

2.4.6.2 MINIMUM GRADIENTS

So that parking floors will drain adequately, the minimum gradient shall be 1 in 100 (1.0%) for outdoor areas and 1 in 200 (0.5%) for covered areas.
4.9 SPEED HUMPS
Where positive speed control is necessary within a car park road humps as specified below shall be used. Humps may either of the following two types depending on their location and the range of speed reduction. They illustrated Figure 4.4 and used as follows;

• Type 1: Appropriate for use on long aisles Clause (see 2.33) and circulating roadways as in large outdoor surface car parks, where it is desired to reduce speeds generally in excess of 30 km/h to about 25km/h or less. Note: Type 1 humps are usually formed in bituminous concrete, if so may be unsuitable for installation on Portland cement concrete surfaces.

• Type 2: Appropriate for use in relatively confined areas of covered and multi-story car parks where it is desired to further check the speed of vehicles mostly travelling at 30km/h or less. If a greater level of control is required on longer roadways, the road hump specified in AS 1742.13 for local area streets may be more appropriate. If delineation the hump is Types 1 and 2 shall be delineated by means of the marking illustrated in Figure 4.5. the larger AS hump is used, the markings specified in that Standard shall be used. Hump markings shall either white or yellow.

Road humps shall spaced at not less than 30 for Type 1 or 10m for Type 2, along any one aisle or roadway. Maximum spacing where required to control speeds continuously along a roadway should be about 50 should be located clear of intersections and curved roadways. Humps shall not impede pedestrian or wheelchair traffic on any accessible travel path provided for people with disabilities.

4.10 SPECIAL LOADING/UNLOADING PARKING SPACES
Special spaces for loading and unloading purpose may be required as indicated below. Where they are to be provided for the indicated purpose, they shall meet the specified minimum size requirements as follows:

• Unloading/loading of prams, strollers, bulky parcels and the like. The space shall be a minimum of 0.5m wider than the standard space for the relevant user class and a minimum of 2.0m longer. The added width may be shared with a foot-way, parking aisle or other adjacent unobstructed space.

• Ambulance spaces at medical centres. Parking spaces shall be as for people with disabilities in AS/NZS 2890.6. Note: Control limit the usage of such spaces to ambulances may be required.
BOLLARDS
STAINLESS STEEL, LIGHT BOLLARD

AB-LB100-S

Description:
Bollard is finish finished stainless steel, comes with ‘Maintenance & Service Hatch’ for easy access to light fittings. Bollard can be fitted with energy efficient florescent light fitting or LED light fitting. Bollard is engineer certified.

Post Dimensions:
100mm (DIA) x 1000mm (Height) X 6.3mm (Thickness)

Base Dimensions:
165mm (DIA) x 10mm

Material:
Stainless Steel - 304 Grade

Installation:
Surface mounted with 4 of 12mm X 65mm stainless steel sleeve anchors (anti theft & anti tamper)

Additional Notes:
Comes stainless steel cap
**GENERAL PURPOSE BOLLARD**

AB-GP100-Y / AB-GP100-B

**Description:**
Our general purpose bollard is surface mounted and most commonly used in City car parks and where restricted access is needed.

**Post Dimensions:**
100mm (DIA) x 5mm (Wall Thickness) x 1000mm (Height)

**Base Dimensions:**
230mm (DIA) x 10mm (Thickness)

**Material:**
Zinc Coated Mild Steel, Metallic Powder Coated

**Installation:**
Surface mounted with 4 off 12 X 65mm Sleeve Anchors (anti-theft & anti tamper)

**Additional Notes:**
Bollard has Branded Reflective Tape. Meets OH&S lift-able weight guidelines for manual handling. Also available in black or colour of your choice. Eyelet-dlink and chain can be added.
HEAVY DUTY BOLLARD

AB-WT114-Y / AB-WT114-G

Description:
Our heavy duty bollard is surface mounted and most commonly used in City car parks and where restricted access is needed.

Post Dimensions:
114mm (DIA) x 5mm (Wall Thickness) x 1000mm (Height)

Base Dimensions:
210mm x 210mm x 10mm (Thickness)

Material:
Zinc Coated Mild Steel, Metallic Powder Coated

Installation:
Locking fixtures are certified into concrete post tension slabs 150mm thick. Surface mounted with 4 off 12 X 65mm Sleeve Anchors (anti-theft & anti tamper)

Additional Notes:
Bollard has Branded Reflective Tape. Meets OH&S lift-able weight guidelines for manual handling.
HEAVY DUTY BOLLARD

AB-WT140-Y

Description:
Our heavy duty bollard is surface mounted and most commonly used in City car parks and where restricted access is needed.

Post Dimensions:
140mm (DIA) x 5mm (Wall Thickness) x 1000mm (Height)

Base Dimensions:
240mm x 240mm x 10mm (Thickness)

Material:
Zinc Coated Mild Steel, Metallic Powder Coated

Installation:
Locking fixtures are certified into concrete post tension slabs 150mm thick Surface mounted with 4 off 12 X 65mm Sleeve Anchors (anti-theft & anti tamper)

Additional Notes:
Bollard has Branded Reflective Tape. Meets OH&S lift-able weight guidelines for manual handling. Also comes in Grey.
STAINLESS STEEL, HIGH IMPACT & ENERGY ABSORBING BOLLARD

AB-WT141-S

Description:
This bollard is finished in 304 stainless steel, secured with a base plate. Used in many applications and for aesthetic purposes and durability.

Post Dimensions:
141mm (DIA) x 6.3mm (Wall Thickness) x 1000mm (Height)

Base Dimensions:
280mm x 280mm x 10mm (Thickness)

Material:
304 Grade Stainless Steel

Installation:
Surface mounted with 4 off 12 X 65mm Sleeve Anchors (anti-theft & anti tamper)

Additional Notes:
Bollard has Branded Reflective Tape.
HEAVY DUTY BOLLARD

AB-WT165-Y

Description:
Our heavy duty bollard is surface mounted and most commonly used in City car parks and where restricted access is needed.

Post Dimensions:
165mm (DIA) x 5mm (Wall Thickness) x 1000mm (Height) - Also available in 1200mm (Height)

Base Dimensions:
280mm x 280mm x 10mm (Thickness)

Material:
Zinc Coated Mild Steel, Metallic Powder Coated

Installation:
Locking fixtures are certified into concrete post tension slabs 150mm thick
Surface mounted with 4 off 16 X 120mm Sleeve Anchors (anti-theft & anti tamper)

Additional Notes:
Bollard has Branded Reflective Tape. Meets OH&S lift-able weight guidelines for manual handling. Also comes in Grey.
HEAVY DUTY BOLLARD

AB-WT165-1200-Y

Description:
Our heavy duty bollard is surface mounted and most commonly used in City car parks and where restricted access is needed.

Post Dimensions:
165mm (DIA) x 5mm (Wall Thickness) x 1200mm (Height) - Also available in 1000mm (Height)

Base Dimensions:
280mm x 280mm x 10mm (Thickness)

Material:
Zinc Coated Mild Steel, Metallic Powder Coated

Installation:
Locking fixtures are certified into concrete post tension slabs 150mm thick
Surface mounted with 4 off 14 X 120mm Sleeve Anchors (anti-theft & anti tamper)

Additional Notes:
Bollard has Branded Reflective Tape. Meets OH&S lift-able weight guidelines for manual handling.
AB-HSM168-Y

Description:
This bollard is designed for high impact, being sub-surfaced mounted and commonly used in high risk areas such as shop-fronts, warehouses & used in many other applications.

Post Dimensions:
168mm (DIA) x 6.3mm (Wall Thickness) x 1000mm (Height)

Base Dimensions:
280mm (DIA) x 10mm (Thickness)

Material:
Zinc Coated Mild Steel, AB-Yellow Powder Coated

Installation:
Surface mounted with 4 off 16 x 120mm sleeve anchors 9 anti-theft and anti-tamper.

Additional Notes:
Bollard has Branded Reflective Tape. Meets OH&S lift-able weight guidelines for manual handling.
AB-HI168-YF

Description:
This bollard is designed for high impact, being sub-surfaced mounted and commonly used in high risk areas such as shop-fronts, warehouses & used in many other applications.

Post Dimensions:
168.3mm (DIA) x 6.3mm (Wall Thickness) x 1090mm (Height)

Base Dimensions:
200mm x 200mm x 10mm (Thickness)

Material:
Zinc Coated Mild Steel, Metallic Powder Coated.

Installation:
Sub-Surface Mounted (Core Drilled)
Surface mounted with 4 off 12 X 65mm Stainless Steel Sleeve Anchors (anti-theft & anti tamper)

Additional Notes:
Bollard has Branded Reflective Tape. Also comes in key lockable.
GAS METER BOLLARD

AB-GM114-Y / AB-GM114-G

Description:
Bollard has finished finish stainless steel cap. Bollard has Branded Reflective Tape.

Post Dimensions:
Above ground - 900mm (H) X 114mm (DIA) Below ground - 400mm (H) X 114mm (DIA) Thickness - 5mm

Base Dimensions:
N/A

Material:
Galvanised, Grey Powder Coated (Anti Graffiti Surface Finish)

Installation:
Sub-Surface Mounted.
400mm X 400mm X 500mm Concrete Footing

Additional Notes:
Also available in Yellow Powder Coated Finish.
HIGH IMPACT & ENERGY ABSORBING BOLLARDS

AB-HI165-1600-Y

Description:
This is our heavy-duty, subsurface mounted bollard. Can be used in many applications such as protecting wash bays, high voltage transformers and other utility appliances.

Post Dimensions:
165mm (DIA) x 1200mm (Height - Above Ground) X 400mm (In Ground)

Base Dimensions:
N/A

Material:
Zinc Coated Mild Steel, Metallic Powder Coated.

Installation:
Subsurface mounted in concrete or core-drilled.

Additional Notes:
Bollard has Branded Reflective Tape. Meets OH&S lift-able weight guidelines for manual handling. Comes with high impact inserts. Also comes in AB-HI165-1700Y and can be made to measure
FIRST DEFENCE BANK BOLLARDS

The Bank Bollard is designed to stop cars and trucks from ram raiding the bank and the ATM designed by the banking sector.

Australian Bollards helps design the bollard to suit their needs and is used throughout Victoria and Queensland at Bank of Melbourne and St. George Bank locations.

These bollards have energy absorbing qualities ideal for outdoor dining possible locations coping, with a range of local traffic condition, such as:

- Possible vehicle loss-of-control crashes where vehicles have had a historical tendency to leave the roadway
- Locations that inherently present special risk factors for crashes, because of unusual cross-fall cambers, steep longitudinal grade
- Sites situated on the outside of road curves. situated on major circulation routes that are subject to large numbers of passing heavy vehicles in the kerb-side lane or where transit or bus lanes are situated.
AB-BB140-S

Description:
Fixed, Steel, Powder Coated Sub Surface Mounted, Bollard. High Duty “Impact Attack” Defence Bollards that protects against vehicle-borne improvised explosive devices (VBIED) such as a car bomb, truck bomb or any other vehicle loaded with explosives and detonated.

Material:
Zinc Coated Mild Steel.

Installation:
Subsurface mounted in concrete or core-drilled.

Additional Notes:
The Bank Bollard is designed to stop cars and trucks from ram raiding the bank and the ATM designed by the banking sector.
HI-IMPACT FLEXIBLE BOLLARD
(ALSO COMES IN STAINLESS STEEL)

AB-FLX140-Y

Description:
Australian Bollards “FLEXIBLE RANGE” properly constructed and fitted will always do its job, protecting people and property. With a fixed rigid bollard it can be ripped from the ground (causing untold damage to the footings and concrete/ asphalt) while also damaging the vehicle, sometimes with some expensive repair work required. This is where our NEW FLEXIBLE BOLLARD comes into play. Our Flexible Bollards have a polypropylene coloured insert which allows impact reflection minimising damage to the vehicle, the footings and the bollard itself. Once the pressure has been removed, the bollard will snap back to its resting position, ready to do its job again. Testing has proven this bollard reduces damage to the vehicle, while also limiting damage to the bollard and surrounding ground. It’s a win-win solution the perfect bollard for high traffic areas - especially forklift, car parks and fast-food driveways. Our Flexible Bollard looks like a regular bollard but in the right situation will stop the headaches that come when protection bollards are struck regularly.

Our Flexible Bollards come 114mm and 140mm DIA
Available NOW

Post Dimensions:
165mm (DIA) x 1200mm (Height - Above Ground) X 400mm (In Ground)

Base Dimensions:
N/A

Additional Notes:
Bollard has Branded Reflective Tape. Meets OH&S lift-able weight guidelines for manual handling. Comes with high impact inserts. Also comes in AB-HI165-1700Y and can be made to measure
HI-IMPACT FLEXIBLE BOLLARD
(ALSO COMES IN STAINLESS STEEL)

AB-FLX140-Y

Description:
Australian Bollards “FLEXIBLE RANGE” properly constructed and fitted will always do its job, protecting people and property. With a fixed rigid bollard it can be ripped from the ground (causing untold damage to the footings and concrete/asphalt) while also damaging the vehicle, sometimes with some expensive repair work required. This is where our NEW FLEXIBLE BOLLARD comes into play. Our Flexible Bollards have a polypropylene coloured insert which allows impact reflection minimising damage to the vehicle, the footings and the bollard itself. Once the pressure has been removed, the bollard will snap back to its resting position, ready to do its job again. Testing has proven this bollard reduces damage to the vehicle, while also limiting damage to the bollard and surrounding ground. It’s a win-win solution the perfect bollard for high traffic areas - especially forklift, car parks and fast-food driveways. Our Flexible Bollard looks like a regular bollard but in the right situation will stop the headaches that come when protection bollards are struck regularly.

Our Flexible Bollards come 114mm and 140mm DIA
Available NOW

Post Dimensions:
140mm (DIA) x 1230mm (Height) 300mm Polypropylene Insert

Base Dimensions:
240mm x 240mm

Additional Notes:
Comes with reflective tape and stainless steel cap. Also available in Stainless Steel.
AB-RFB100-R

Description:
Australian Bollards - Rubber flexible removable bollards are ideal for locations with high pedestrian and vehicle traffic, avoiding damage to vehicle by flexible impact with the bollards. They are made up of special elastomeric material.

Diameter:
100mm

Height:
1000mm

Housing Dimensions:
250mm (W) x 220mm (H)

Installation:
Sub-Surface Mounted (Can be fixed or Removable)

Material:
Elastomeric Material

Weight:
3.9kg

Additional Notes:
Brackets come with grey reflective ring, guiding vehicles during night.
STAINLESS STEEL FOLDABLE & LOCKABLE BOLLARD

AB-FD80-S

Description:
This bollard is finished in 304 stainless steel. It is fold-able and lockable. Easily installed and ideally used for temporary access to driveways, foot-paths & walkways.

Post Dimensions:
80mm x 80mm x 895mm

Base Dimensions:
200mm x 200mm x 10mm

Material:
304 Grade Stainless Steel, Linished Finish

Installation:
Surface mounted with 4 off 12 X 65mm Stainless Steel Sleeve Anchors (anti-theft & anti tamper)

Additional Notes:
Meets OH&S lift-able weight guidelines for manual handling.
Description:
This bollard is fold-able and lockable. Easily installed and ideally used for temporary access to driveways, foot-paths & walkways.

Post Dimensions:
80mm x 80mm x 895mm

Base Dimensions:
200mm x 200mm x 10mm

Material:
Zinc Coated Mild Steel, Metallic Powder Coated

Installation:
Surface mounted with 4 off 12 X 65mm Sleeve Anchors (anti-theft & anti tamper)

Additional Notes:
Meets OH&S lift-able weight guidelines for manual handling.
Description:
This bollard is removable and key or pad-lockable. A heavier version of our Core Drilled range, primarily used where the bollard only needs to be removed occasionally.

Post Dimensions:
1300mm (Height) x 114mm (DIA) 1000mm above ground

Base Dimensions:
300mm (Height) x 140mm (DIA) Housing comes with lid.

Material:
Galvanised Steel, Powder Coat Yellow.

Installation:
Sub-Surface Mounted (Core Drilled)

Additional Notes:
Key or pad-lockable. Stainless Steel Cap. Bollard comes with branded reflective tape. Also comes in key-lockable.
Description:
This bollard is removable and pad-lockable. A heavier version of our Core Drilled range, primarily used where the bollard only needs to be removed occasionally.

Post Dimensions:
1300mm (Height) x 141mm (DIA) 1000mm above ground

Base Dimensions:
300mm (Height) x 165mm (DIA) Housing comes with lid.

Material:
Galvanised Steel, Powder Coat Yellow.

Installation:
Sub-Surface Mounted (Core Drilled)

Additional Notes:
Pad-lockable. Stainless Steel Cap. Bollard comes with branded reflective tape. Also comes in key-lockable.
**ANTI RAM-RAIDABLE HIGH IMPACT, REMOVABLE, KEY-LOCKABLE / PAD-LOCKABLE**

**AB-WTPL165-Y / AB-WTKL165-Y**

**Description:**
This bollard is removable and pad-lockable. A heavier version of our Core Drilled range, primarily used where the bollard only needs to be removed occasionally.

**Post Dimensions:**
165mm (DIA) x 1000mm (Height - Above Ground) X 300mm (In Ground)

**Base Dimensions:**
190mm (DIA) x 300mm (Height)

**Material:**
Galvanised Steel, Powder Coated

**Installation:**
Subsurface mounted.

**Additional Notes:**
Pad-lockable. Stainless Steel Cap. Bollard comes with branded reflective tape. Also comes in key-lockable.
ANTTI RAM RAIDABLE, REMOVABLE & KEY-LOCKABLE BOLLARD

AB-CDPL90-Y

Description:
This bollard is pad-lockable and removable, anti ram-raidable. Ideal for securing warehouses where there is a roller door present.

Post Dimensions:
90mm (DIA) x 5mm (Wall Thickness) x 1260mm (Height)

Base Dimensions:
100mm (DIA) x 230mm (Height)

Material:
Zinc Coated Mild Steel, Metallic Powder Coated

Installation:
Sub-Surface Mounted (Core Drilled)

Additional Notes:
Bollard has Branded Reflective Tape. Includes padlock & key set. Housing includes lid. Height dimension includes handle. Meets OH&S lift-able weight guidelines for manual handling.
**Description:**
This bollard is removable and pad-lockable. A heavier version of our Core Drilled range, primarily used where the bollard only needs to be removed occasionally.

**Post Dimensions:**
90mm (DIA) x 5mm (Wall Thickness) x 1235mm (Height)

**Base Dimensions:**
100mm (DIA) x 230mm (Height)

**Material:**
Zinc Coated Mild Steel, Metallic Powder Coated

**Installation:**
Sub-Surface Mounted (Core Drilled)

**Additional Notes:**
Bollard has Branded Reflective Tape. Includes padlock & key set. Housing includes lid. Height dimension includes handle. Meets OH&S lift-able weight guidelines for manual handling.
STAINLESS STEEL, ANTI RAM-RAIDABLE, REMOVABLE & KEY-LOCKABLE

AB-CDKL90-S

Description:
This bollard is key-lockable and removable. Ideal for securing warehouses where there is a roller door present as it is anti ram-raidable.

Post Dimensions:
90mm (DIA) x 5mm (Wall Thickness) x 1235mm (Height)

Base Dimensions:
100mm (DIA) x 230mm (Height)

Material:
304 Grade Stainless Steel

Installation:
Sub-Surface Mounted (Core Drilled)

Additional Notes:
Bollard has Branded Reflective Tape. Includes key set. Housing includes lid. Height dimension includes handle. Meets OH&S lift-able weight guidelines for manual handling.
STAINLESS STEEL MANUAL REMOVABLE BOLLARD

AB-BO114-RS

Description:
The Removable Bollard has been designed to control access to a site with security, guaranteeing pedestrian access whilst blocking the area to road traffic.

Post Dimensions:
144mm (DIA) x 5mm (Wall Thickness) x 900mm (Height - Above Ground)

Weight:
9.5 kg

Housing Dimensions:
247.5mm (Width) x 150mm (Height)

Material:
304 Grade Stainless Steel. Also comes in Mild steel coated yellow.

Installation:
Core drilled.

Additional Notes:
Key lockable, removable. Plug for when bollard is not in housing. Meets OH&S lift-able weight guidelines for manual handling. Complete with reflective branded tape. Also comes in yellow.
STAINLESS STEEL
MANUAL RETRACTABLE
BOLLARD

AB-KR114-900-S

Description:
This Bollard is retractable

Post Dimensions:
114mm (DIA) X 900mm (Height) - Above Ground

Base Dimensions:
225mm (DIA - Top) X 178mm (DIA) X 1080mm (Height)

Material:
Powder coated Steel or Polished Stainless Steel. Also comes in yellow.

Installation:
Sub-surface installation

Additional Notes:
Oval Key Lock. Complete with reflective branded tape.
SERVICES ROUTE
PROTECTION POST

AB-SRP2000-GAL

Description:
These stationary sub-surface mounted protection post bollards are designed to guide and show pedestrians areas that hold important equipment such as electric cables and routes. This protection post is 2000mm tall, 800mm mounted below ground and 1200mm above ground. The bottom of the bollard is flattened in order to prevent post rotation and keep the bollard stable within the pored concrete. The posts foundation is 300mm in diameter. These posts are ideal for installation in construction zones such as railway tracks to aid workers and pedestrians of the placement of important wires and cables. The bollards are manufactured in galvanized steel. These steel bollards are to be powder coated white or yellow to delineate different cable joints.
CABLE ROUTE MARKER POST

AB-CRM2000-GAL

Description:
These stationary sub-surface mounted protection post bollards are designed to guide and show pedestrians areas that hold important equipment such as electric cables and routes. This protection post is 2000mm tall, 800mm mounted below ground and 1200mm above ground. The bottom of the bollard is flattened in order to prevent post rotation and keep the bollard stable within the pored concrete. The posts foundation is 300mm in diameter. These posts are ideal for installation in construction zones such as railway tracks to aid workers and pedestrians of the placement of important wires and cables. The bollards are manufactured in galvanized steel. These steel bollards are to be powder coated white or yellow to delineate different cable joints.
SECURITY CAMERA BOLLARD

AB-CB

Description:
Security Camera Bollards are low maintenance, tamper resistant solution engineered for the vehicle access monitoring and the recording of essential information. They are primarily installed in parking lots but can also be employed to capture speeding drivers on highways and toll roads.

Available in either a stainless steel or powder coated finish, these innovative products can be utilized alongside other roadside furniture such as boom barrier gates and intercom systems to deliver an exceptional security experience.

Capable of surface or sub surface mounting, these units can house CCTV Video, Automatic Number Plate Recognition or Plate Capture DVR devices and can be adjusted to suit the corresponding height of the vehicle.

Post Dimensions:
219mm (DIA) x 1100mm (Height)

Base Dimensions:
370mm (DIA) x 12mm (Thick)

Material:
304 Grade Stainless Steel

IP Grade:
IP 55

Installation:
Surface Mounted (Anti-theft & Anti-temper)

Additional Notes:
These bollards are rust protected with all camera facilities provided.
Description:
The Australian Bollards Utility Service Bollard-housing either Electricity or Water Supply points is a stainless steel or a hot dipped galvanised/powder coated bollard in a range of colours, in both fixed surface mount with base plate or sub surface mounted, for use as a standalone power or water only service point.

They are designed to house a number of exterior standard mounted rated electricity outlets for installation by a licensed electrical contractor complying to Statutory authorities & AS/NZS 3000:2007 Electrical installations or water supply points, to allow an easily accessible source of power or water that is safe and secure.

The bollards are designed to have a nonconductive backboard in the internal structure, which provides an ideal mounting point for either electric or water service units. They can be custom manufactured in a range of sizes and heights as required, with a door aperture with lockable hinged door, provides protection and prevents vandalism and unauthorised use.

- 200NB (219.1) x 4.8mm Medium Duty Galvanised Pipe
- 300NB (323.9) x 6.4mm Medium Duty Galvanised Pipe
- 600NB (574.4) x 6.4mm Medium Duty Galvanised Pipe

An access slot at the base of the door, allows cables or hoses to pass through whilst closed in the locked position. Providing secured power and water distribution both when both in use and not in use.
UTILITY SERVICE BOLLARD - SUB-SURFACE MOUNTED

AB-USB-SSM

Description:
The Australian Bollards Utility Service Bollard-housing either Electricity or Water Supply points is a stainless steel or a hot dipped galvanised/powder coated bollard in a range of colours, in both fixed surface mount with base plate or sub surface mounted, for use as a standalone power or water only service point.

They are designed to house a number of exterior standard mounted rated electricity outlets for installation by a licensed electrical contractor complying to Statutory authorities & AS/NZS 3000:2007 Electrical installations or water supply points, to allow an easily accessible source of power or water that is safe and secure.

The bollards are designed to have a nonconductive backboard in the internal structure, which provides an ideal mounting point for either electric or water service units. They can be custom manufactured in a range of sizes and heights as required, with a door aperture with lockable hinged door, provides protection and prevents vandalism and unauthorised use.

- 200NB (219.1) x 4.8mm Medium Duty Galvanised Pipe
- 300NB (323.9) x 6.4mm Medium Duty Galvanised Pipe
- 600NB (574.4) x 6.4mm Medium Duty Galvanised Pipe

An access slot at the base of the door, allows cables or hoses to pass through whilst closed in the locked position. Providing secured power and water distribution both when both in use and not in use.
SOLAR BOLLARDS LIGHT

AB-SB250-240LED

Description:
Australian Bollards - Solar Bollards range is an aesthetically designed bollard that operate in a fully automatic mode. The lights automatically switch ON in the evening and switch OFF in the morning by detecting day and night. These solar bollard lights are heavy duty corrosion resistant and are made for commercial use, therefore both strong and durable. They provide excellent light output as compared to others. They harness natural sunlight, converting sun rays into electricity via solar panels and store this electrical energy into purposely designed long life batteries. At night the light is then produced by drawing back from the battery. These solar light bollards are ideal for illuminating pathways, complementing resorts, outdoor function areas and creating a relaxed ambiance.

These solar bollard lights have become a viable alternative to fixed wiring systems. It is economical to run, reliable and low maintenance eliminating the need for underground wiring. With the effects of global warming, due to our dependency on fossil fuels, solar bollard lights is a logical alternative. Environmental friendly, with a zero carbon footprint, solar power generation is the way for future.

Applications:
- City Roads
- Residential Quarters
- Parks
- Outdoor terrace
- Garden Villas

Benefits:
These Solar Bollards are effective money saving solution with:
- $0 Electricity
- $0 Cost of Trenching
- $0 Cabling.
Description:
Australian Bollards - Solar Bollards range is an aesthetically designed bollard that operate in a fully automatic mode. The lights automatically switch ON in the evening and switch OFF in the morning by detecting day and night. These solar bollards lights are heavy duty corrosion resistant and are made for commercial use, therefore both strong and durable. They provide excellent light output as compared to others.

They harness natural sunlight, converting sun rays into electricity via solar panels and store this electrical energy into purposely designed long life batteries. At night the light is then produced by drawing back from the battery. These solar light bollards are ideal for illuminating pathways, complementing resorts, outdoor function areas and creating a relaxed ambiance.

These solar bollard lights have become a viable alternative to fixed wiring systems. It is economical to run, reliable and low maintenance eliminating the need for underground wiring. With the effects of global warming, due to our dependency on fossil fuels, solar bollard lights is a logical alternative. Environmental friendly, with a zero carbon footprint, solar power generation is the way for future.

Applications:
- City Roads
- Residential Quarters
- Parks
- Outdoor terrace
- Garden Villas

Benefits:
These Solar Bollards are effective money saving solution with:
- 0 $ Electricity
- 0 $ Cost of Trenching
- 0 $ Cabling.
SOLAR BOLLARDS LIGHT

AB-SB800-220LED

Description:
Australian Bollards - Solar Bollards range is an aesthetically designed bollard that operate in a fully automatic mode. The lights automatically switch ON in the evening and switch OFF in the morning by detecting day and night. These solar bollards lights are heavy duty corrosion resistant and are made for commercial use, therefore both strong and durable. They provide excellent light output as compared to others.

They harness natural sunlight, converting sun rays into electricity via solar panels and store this electrical energy into purposely designed long life batteries. At night the light is then produced by drawing back from the battery. These solar light bollards are ideal for illuminating pathways, complementing resorts, outdoor function areas and creating a relaxed ambiance.

These solar bollard lights have become a viable alternative to fixed wiring systems. It is economical to run, reliable and low maintenance eliminating the need for underground wiring. With the effects of global warming, due to our dependency on fossil fuels, solar bollard lights is a logical alternative. Environmental friendly, with a zero carbon footprint, solar power generation is the way for future.

Applications:
- City Roads
- Residential Quarters
- Parks
- Outdoor terrace
- Garden Villas

Benefits:
These Solar Bollards are effective money saving solution with:
- 0 $ Electricity
- 0 $ Cost of Trenching
- 0 $ Cabling.
SOLAR BOLLARDS
LIGHT – WALL MOUNTED

AB-SB350-260LED-
Wall Mounted

Description:
Australian Bollards - Solar Bollards range is an aesthetically designed bollard that operate in a fully automatic mode. The lights automatically switch ON in the evening and switch OFF in the morning by detecting day and night. These solar bollard lights are heavy duty corrosion resistant and are made for commercial use, therefore both strong and durable. They provide excellent light output as compared to others.

They harness natural sunlight, converting sun rays into electricity via solar panels and store this electrical energy into purposely designed long life batteries. At night the light is then produced by drawing back from the battery. These solar light bollards are ideal for illuminating pathways, complementing resorts, outdoor function areas and creating a relaxed ambiance.

These solar bollard lights have become a viable alternative to fixed wiring systems. It is economical to run, reliable and low maintenance eliminating the need for underground wiring. With the effects of global warming, due to our dependency on fossil fuels, solar bollard lights is a logical alternative. Environmental friendly, with a zero carbon footprint, solar power generation is the way for future.

Applications:
- City Roads
- Residential Quarters
- Parks
- Outdoor terrace
- Garden Villas

Benefits:
These Solar Bollards are effective money saving solution with:
- 0 $ Electricity
- 0 $ Cost of Trenching
- 0 $ Cabling.
ENERGY ABSORBING BOLLARDS

AUSTRALIAN BOLLARDS ROADSIDE SERVICES
ENERGY ABSORBING BOLLARDS

AB-EAB

The Energy Absorbing bollard is designed for areas experiencing high foot traffic to protect pedestrians from hostile vehicles. It is the benchmark bollard for tram stops, sidewalks and pedestrian walks Australia-wide. It stands one meter tall, sub-surface mounted, and is designed, developed and manufactured in Australia. It is also repairable after impact.

<table>
<thead>
<tr>
<th>Weight</th>
<th>67.5kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>150mm</td>
</tr>
<tr>
<td>Height</td>
<td>1000mm above ground</td>
</tr>
<tr>
<td>Finish</td>
<td>Galvanised/Painted</td>
</tr>
<tr>
<td>Catridge Dimensions</td>
<td>355.6mm Top, 165mm Bottom, 800mm Height</td>
</tr>
<tr>
<td>Catridge Weight</td>
<td>28.5kg</td>
</tr>
<tr>
<td>Rated Impact Speed</td>
<td>60km/h</td>
</tr>
</tbody>
</table>
## TYRE KILLERS

### AB-TK-EC

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>270mm (per module) x 3mm (Thickness)</td>
</tr>
<tr>
<td>Height</td>
<td>50mm</td>
</tr>
<tr>
<td>Width</td>
<td>385mm</td>
</tr>
<tr>
<td>Weight</td>
<td>3.2kg (per module)</td>
</tr>
<tr>
<td>Installation</td>
<td>Surface Mounted. Each module has 1 fixing hole.</td>
</tr>
<tr>
<td>Material</td>
<td>Mild steel, Metallic powder coated in AB Safety Yellow</td>
</tr>
<tr>
<td>Additional Notes</td>
<td>Remote parameter setting (SCADA), RFID reader complying with ISO 14443 A Activation</td>
</tr>
</tbody>
</table>

### AB-TK-SB

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1000mm (Per Module)</td>
</tr>
<tr>
<td>Width</td>
<td>385mm</td>
</tr>
<tr>
<td>Height</td>
<td>50mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>3mm</td>
</tr>
<tr>
<td>Material</td>
<td>Mild Steel, Metallic Powder coated in AB Safety Yellow. Spike: Zinc with Reflective Film</td>
</tr>
<tr>
<td>Weight</td>
<td>21kg (Per Module)</td>
</tr>
<tr>
<td>Installation</td>
<td>Surface Mounted</td>
</tr>
<tr>
<td>Additional Notes</td>
<td>Each module have 6 fixing holes. End caps and modules are sold separately.</td>
</tr>
</tbody>
</table>
Description:
The Raptor Defence System is a road blocker which can be openly deployed across a range of locations that include hardstand areas. It is designed to prevent hostile vehicles from entering the premises, thereby containing the situation and halting trouble before it occurs.

Capable of stopping a 7.2 tonne truck that is travelling up to 64 kilometres an hour, the Raptor Defence System is the perfect mechanism when it comes to protecting crowded locations and providing the necessary, rapid response to such situations in a matter of seconds.

Proudly Australian made, the Raptor Defence System is the first of its kind in Australia which has been engineered solution to meet PAS 68, IWA 14.1 and M50 security ratings. This makes it the latest and most up to date anti-terror and HVM defence mechanism in the country.

If you want to prevent possible anti-terror and hostile vehicle scenarios occurring at various locations than Australian Bollards has the solution for you with the Raptor Defence System.

Compared to other anti-terror mitigation systems, the Raptor Defence System works in a pneumatic manner which not only protects you but also makes the product environmentally friendly as well.

Available as a surface mounted device, the Raptor Defence System can be installed on a temporary or permanent basis which makes it the complete package when it comes to HVM security.
CALTEx BOLLARD

AB-HI168-CALTEx

Description:
Caltex Bollards are designed to protect fuel pumps and other service station equipment from collisions with vehicles. This product comes in both fixed and removable versions. Storage sleeve and cover plate are included.

DIA:
168mm

Height:
1500mm

Material:
Powder Coated in Gloss White

Installation:
Sub-Surface Mounted. Removable

Additional Notes:
Bollard comes with Branded Reflective Tape,
Description:
Parking Barriers by Australian Bollards are boom gate systems ideal for application at the entrance and exit of car parks and secure areas. They are best used in conjunction with other roadside contraptions including security camera bollards, intercom systems and card readers to create an outstanding parking solution.

The AB-DBA-900 is DDA compliant, it also comes with a warning safety beacon lighting and siren, making it easily visible at night. Many trucks do deliveries early in the morning when it is still dark, the warning safety beacon lighting can stop accidents from happening and potentially save thousands of dollars in damages. It also features a very loud warning siren as the barrier is going both up and down alerting those around the barrier that it is currently in use. The Customers need to choose whether it is right handed, left handed or articulate boom barriers.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1042mm</td>
</tr>
<tr>
<td>Depth</td>
<td>265mm</td>
</tr>
<tr>
<td>Width</td>
<td>350mm</td>
</tr>
<tr>
<td>Weight</td>
<td>72kg</td>
</tr>
<tr>
<td>Arm Height</td>
<td>850mm</td>
</tr>
<tr>
<td>Arm Length</td>
<td>3 ~ 5m</td>
</tr>
<tr>
<td>Power Supply</td>
<td>220V, 50Hz</td>
</tr>
<tr>
<td>Motor Power Supply</td>
<td>240W 220V / AC</td>
</tr>
<tr>
<td>Noise</td>
<td>Less than 60dB</td>
</tr>
<tr>
<td>Material</td>
<td>Galvanised Steel and Powder Coated</td>
</tr>
<tr>
<td>Temperature</td>
<td>-25°C ~ +70°C</td>
</tr>
<tr>
<td>Rail Up &amp; Down Time</td>
<td>3s ~ 6s</td>
</tr>
<tr>
<td>Frequency of Use</td>
<td>Intensive</td>
</tr>
<tr>
<td>Additional Notes</td>
<td>On request, Articulated Flexible Arms are available for installation in low height areas such as basement parking etc.</td>
</tr>
</tbody>
</table>
INFRARED SENSORS

AB-IS

Description:
This Infrared Reflective Sensor is used to detect an object within a specific range. This product can be integrated into a number of products including boom gates and hydraulic bollards.

Dimensions:
171mm x 82mm

Outdoor Distance:
20m

Indoor Distance:
60m

Weight:
1.2kg

Alignment Angle:
± 90° (horizontal), ± 5° (vertical)

 Interruption Time:
50ms ~ 700ms

Operating Temperature:
-25°C ~ +60°C

Current Draw:
40mA

Voltage:
DC12 ~ DC24 V / AC 11 ~ 18 V
### MAGNETIC LOCK

**AB-MGL**

**Description:**

The Magnetic Lock secures the boom barrier to hold into the stand, protecting the arm against any strong force.

When in use, a warning alarm beeps as the boom arm is going up or down. The blue strobe light acts as extra protection, alerting all that the boom barrier is being accessed, and illuminating any guests on your property. Once the boom barrier is secured in the magnetic stand, the alarm will cease.

The app allows for complete access control over the boom barrier, with a simple use of a click for the barrier to elevate and another for it to return to the secure magnetic lock and hold stand. The app is compatible with both IOS and Android systems.

Parking Barriers by Australian Bollards are boom gate systems ideal for application at the entrance and exit of car parks and secure areas. They are best used in conjunction with other roadside contraptions including security camera bollards, intercom systems and card readers to create an outstanding parking solution. The Customers need to choose whether it is right handed, left handed or articulate boom barriers.
LED SPEED HUMP/
LINE MARKER

AB-FD-300

Description:
LED Speed Humps are reflective, preventative systems from Australian Bollards’ range of solar solutions, engineered to emit light and restrict vehicular speed in enclosed areas.

Manufactured from yellow polyurethane with an anti-slipping surface pattern design, these products function in all weather conditions and feature three flashing lights on each side of the unit for outstanding visibility.

Applicable in a range of locations including commercial premises, petrol stations, car parks, driveways and factories as well as on roads, LED Speed Humps can be utilised for temporary or permanent use as a premium safety option.

Features:
- Highly Visible & Reflective at night.
- Usable in all weather conditions.
- Made of most durable polyurethane.
- Anti-Slipping surface Pattern Design.
- 3 Flashing LED Lights Each Side.

Applications:
- Covered & Level Car Parks.
- Commercial Premises.
- Petrol Stations.
- Indoor & Outdoor Roads, Driveways.
- Convention Spaces or Factories.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>171mm x 82mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>45mm</td>
</tr>
<tr>
<td>Indoor Distance</td>
<td>Yellow</td>
</tr>
<tr>
<td>Weight</td>
<td>1kg</td>
</tr>
<tr>
<td>Reflector</td>
<td>6 Solar Flash LED</td>
</tr>
<tr>
<td>Bearing Weight</td>
<td>20 Tonnes Truck Load</td>
</tr>
</tbody>
</table>
NED KELLY BIKE SHELTERS

AB-BS

Description:
Australian Bollards - Fully enclosed shelter that provided optimum weather protection for cyclists and their bicycles. When providing bicycle parking at outside locations, consideration should be given to also providing protection against the elements, particularly in locations where the bicycles are parked long-term.

Using the Ned Kelly bike shelter, Parkiteer is a Public Transport Victoria Service that helps you get around with secure bicycle parking at Victorian train stations. The Ned Kelly Bike Shelter is a secure and space-efficient bicycle rack guaranteed to provide protection and storage for cyclists. Built to fit up to 30 bikes, this shelter can be used for hospitals, universities, schools, train stations, and other various public locations.

<table>
<thead>
<tr>
<th>Height</th>
<th>2870mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>6700mm</td>
</tr>
<tr>
<td>Width</td>
<td>4500mm</td>
</tr>
<tr>
<td>Material</td>
<td>Galvanised Steel</td>
</tr>
<tr>
<td>Capacity</td>
<td>Up to 30 Bike Space Enclosure</td>
</tr>
<tr>
<td>Bike Rack Options</td>
<td>Flat Top / Hoop Top / Ned Kelly / Key Shaped Designer Bike Racks</td>
</tr>
</tbody>
</table>
**AB-EV-22KW**

**Description:**
Charges will maintain necessary communication with control system of the vehicle. Provides charging for the safe conduct of the operator and vehicle. Interface, which allows safe and controlled interconnection of the onboard charger with the power network and transfer up to 22kw power per hour which is then transformed into direct current and sent to the battery. The performance of onboard charger is limiting however how much power it could actually use, regardless the performance of the charger.

Australian Bollards Electric Vehicle Charging Stations are the perfect solution to the environmentally conscious driver who prefer the use of an electronic vehicle. The EV charging station is an intelligent modern charging station that is durable and sturdy and the perfect solution for the electronic vehicle market.

The station has a very small carbon footprint, just like the cars they are built to charge and an innovative design with inbuilt temperature control that has been tested in 50-degree heat and can withstand direct sun exposure and high humidity. These EV charging stations are available for both commercial and private use.

<table>
<thead>
<tr>
<th>Charger Type</th>
<th>32A 22kw CCS type AC charger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>LCD Display</td>
</tr>
<tr>
<td>Width</td>
<td>Wall Mounting</td>
</tr>
<tr>
<td>Material</td>
<td>IP 54 following IEC 6052</td>
</tr>
<tr>
<td>Capacity</td>
<td>Remote parameter setting (SCADA), RFID reader complying with ISO 14443 A activation</td>
</tr>
</tbody>
</table>
SOFT APPROACH TO HARD SECURITY
EVENT BOLLARDS

AB-VBIE-D-MVB

Description:
Event Bollards by Australian Bollards is the perfect temporary total leasing solution for public safety. They are ideal for events such as public parties, street events, celebrations, sports games, markets or seasonal happenings.

We can help you choose event hire bollards that suit the aesthetics and theme of your event, whether you need something elegant, fun, simple, or something completely different. We have a range of concrete spheres and square bollards to choose from, or you can have a talk to our sales team to develop a customised design.

Our concrete bollards are a popular choice due to their elegant, rustic finish. They include a proprietary security insert to make them even more impact-resistant than other similar bollards. This makes them safer than other bollards, as they can't be moved and won't budge if hit by a car.

Dimensions:
830mm (W) x 830 mm (L) x 830mm (H)

Weight:
Contact the Australian Bollards team for bollard weight @ 03 9459 3488

Material:
Concrete

Colour:
Grey

Additional Notes:
This bollard can be deployed at a moment's notice and be used a rental solution for event protection. Installation involves proprietary security insert. Optional solar lighting available.
Description:
Event Bollards by Australian Bollards is the perfect temporary total leasing solution for public safety. They are ideal for events such as public parties, street events, celebrations, sports games, markets or seasonal happenings.

We can help you choose event hire bollards that suit the aesthetics and theme of your event, whether you need something elegant, fun, simple, or something completely different. We have a range of concrete spheres and square bollards to choose from, or you can have a talk to our sales team to develop a customised design.

Our concrete bollards are a popular choice due to their elegant, rustic finish. They include a propriety security insert to make them even more impact-resistant than other similar bollards. This makes them safer than other bollards, as they can’t be moved and won’t budge if hit by a car.

You can also add lights to your event bollards, making them even safer. Lights can make a big difference for public safety. If the bollards are located close to traffic such as on street corners, lights will make sure the bollards are seen by drivers.

Event Bollards by Australian Bollards is a leading manufacturer in the industry, offering expert advice, site surveys, and installation by our in-house installation team as well as deployment at a moment’s notice. Our after sales team will take care of any potential maintenance during the leasing period, and if you decide to purchase the bollards later, we are happy to give finance.

Diameter:
900mm

Weight:
Contact the Australian Bollards team for bollard weight @ 03 9459 3488

Material:
Granite

Colour:
Grey

Additional Notes:
This bollard can be deployed at a moment’s notice and be used a rental solution for event protection. Installation involves proprietary security insert. Optional solar lighting available
COLOSSUS
RECTANGULAR
BOLLARD

AB-CRB400-C

Description:
Colossus Rectangular bollards are an architecturally designed Fixed Insitu Concrete Rectangular Bollard 900mm Height- Insert 700mm Above-Ground 300mm Below 12mm Cast-In Ferrules for Lifting 400x400mm wide.

All Concrete Bollards are poured insitu. Which includes base plate mounted, sub-surface mounted concrete bollards. It is one piece. Colour & design is subjected to change due to manufacturing process, sandblasting that might bring some imperfections.
PAS68/IWA-14-1
BOLLARDS
CENTURION SHALLOW SURFACE MOUNTED

AB-MRS370-PAS68-IWA14-4

The Centurion Shallow and Surface Mounted Sliding Bollard System is a groundbreaking solution to providing sliding bollards in public areas. It consists of sliding bollards flanked by fixed bollards.

The sliding bollards shift horizontally to let vehicles through, and unlike vertically-retracted bollards, they can be installed as a shallow-mount system. This means no excavation is required. The Centurion complimentarily serves as a protective barrier against vehicle-borne improvised explosive devices (VBIED) and Hostile Vehicle Mitigation (HVM), protecting while simultaneously allowing passage for vehicles in emergency situations. The Centurion Bollard is an A.I. Solution that will enable you to complete access control. Infra-red sensors are placed on either side of the system, with built in drive unit and control log; allowing for full gate control, from up close and at a distance.

The Centurion complies with the industry standards of PAS 68 and IWA 14.1. These are the impact performance requirement for a vehicle security barrier.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1110mm</td>
</tr>
<tr>
<td>Width</td>
<td>370mm</td>
</tr>
<tr>
<td>Base Height</td>
<td>114mm</td>
</tr>
<tr>
<td>Overall Length</td>
<td>5610mm</td>
</tr>
<tr>
<td>Net Opening</td>
<td>4075mm</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>100%</td>
</tr>
<tr>
<td>Crash Tested</td>
<td>IWA14 rated</td>
</tr>
</tbody>
</table>
AB-2.5T-64KPH

PAS 68 Shallow Mounted Bollards are designed to protect people and properties against hostile and runaway vehicles. This Shallow Mount Protective Bollard has proven levels of security performance, capable of withstanding the impact of a 2.5 tonne hostile vehicle at speeds of up to 64 kph. AB-2.5T-64KPH Shallow Mounted protective Bollards are also rated in accordance with IWA-14.1 Standards.

<table>
<thead>
<tr>
<th>Sleeve Material</th>
<th>Grade 316 Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sleeve Finish</td>
<td>Brushed</td>
</tr>
<tr>
<td>Core Diameter</td>
<td>139.7mm</td>
</tr>
<tr>
<td>Height Above Ground</td>
<td>901mm</td>
</tr>
</tbody>
</table>
## FIXED SHALLOW MOUNTED SYSTEM

**AB-7.2T-80KPH**

PAS 68 Shallow Mounted Bollards are designed to protect people and properties against hostile and runaway vehicles. This Shallow Mount Protective Bollard has proven levels of security performance, capable of withstanding the impact of a 7.2 tonne hostile vehicle at speeds of up to 80 kph. AB-7.2T-80KPH Shallow Mounted protective Bollards are also rated in accordance with IWA-14.1 Standards.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sleeve Material</strong></td>
<td>Grade 316 Stainless Steel</td>
</tr>
<tr>
<td><strong>Sleeve Finish</strong></td>
<td>Brushed</td>
</tr>
<tr>
<td><strong>Core Diameter</strong></td>
<td>224mm</td>
</tr>
<tr>
<td><strong>Sleeve Diameter</strong></td>
<td>254mm</td>
</tr>
<tr>
<td><strong>Height Above Ground</strong></td>
<td>1000mm</td>
</tr>
<tr>
<td><strong>Excavation Depth</strong></td>
<td>172mm</td>
</tr>
<tr>
<td><strong>Core Weight</strong></td>
<td>650kg</td>
</tr>
<tr>
<td><strong>Sleeve Weight</strong></td>
<td>16kg</td>
</tr>
<tr>
<td><strong>Reflective Tape Av.</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>

---

[Image of Shallow Mounted Bollard]
CENTURION SHALLOW MOUNTED BOLLARD – FIXED / REMOVABLE

AB-CRASH-C-F / AB-CRASH-C-R

The Centurion Shallow Mounted Bollard-Fixed serves as a protective barrier against vehicle-borne improvised explosive devices (VBIED) and Hostile Vehicle Mitigation (HVM).

Equipped with LED lights and coated in a stainless-steel cover, the shallow mounted bollard complies with PAS68/IWA-14-1 regulations making it strong enough to withstand a 7500kg truck travelling at 48kph. It is rated to stop a 7.2 tonne truck moving at 48kph.

Adjustable to any curve, the AB-CRASH-C-F is also available as a removable bollard, making the shallow mounted bollard one that can be utilized in any situation, anytime, anywhere.

Quick and easy to install, the AB-CRASH-C-F is ideal protective mechanism for urban locations and high-density areas against hostile vehicle attacks.

<table>
<thead>
<tr>
<th>Height</th>
<th>700mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Depth</td>
<td>350mm</td>
</tr>
<tr>
<td>Internal Casing</td>
<td>1210mm</td>
</tr>
<tr>
<td>Bollard Internal Overlap</td>
<td>300mm</td>
</tr>
<tr>
<td>Bollard Diameter</td>
<td>220mm</td>
</tr>
<tr>
<td>Protection Level</td>
<td>IWA14-7.2-ton 48km/h-M30-P1-Zero Penetration. Bollard continue to work after crash.</td>
</tr>
<tr>
<td>Options</td>
<td>LED lights, hot deep galvanised with stainless steel Cover.</td>
</tr>
<tr>
<td>Crash Tested</td>
<td>PAS68/IWA14-1 rated</td>
</tr>
</tbody>
</table>
The Centurion AB-BLG-02-SM-200-R Shallow Mounted Bollard - Removable is the latest development by Australian Bollards to help prevent the ever-growing threat of car-ramming and other various vehicular attacks on society.

With different terrorist threats arising, Australian Bollard’s Super Shallow Mounted Bollard - Removable will keep crowded areas safe from these situations occurring. Capable of stopping a 7,500kg truck travelling at 48kph, the Centurion bollard will continue to be operational after impact and remain undamaged thanks to its strong foundations which are only 175mm deep. It is rated to stop a 7.5 tonne truck moving at 48kph. The product is available in both fixed and removable installations giving the customer the flexibility to figure out what suits their requirements best. Quick and easy to install, the AB-BLG-02-SM-200-R is ideal for urban locations and high density areas.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1000mm</td>
</tr>
<tr>
<td>Foundation Depth</td>
<td>175mm</td>
</tr>
<tr>
<td>Bollard Diameter</td>
<td>220mm</td>
</tr>
<tr>
<td>Bottom Footprint</td>
<td>1460mm (L) x 1000mm (W)</td>
</tr>
<tr>
<td>Protection Level</td>
<td>220mm</td>
</tr>
<tr>
<td></td>
<td>PAS68:2013</td>
</tr>
<tr>
<td></td>
<td>V/7500(N2)/48/90:0.0/0.0</td>
</tr>
<tr>
<td></td>
<td>IWA14-1:2013; V/7200(N2A)</td>
</tr>
<tr>
<td></td>
<td>/48/90:0.2</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>310kg</td>
</tr>
<tr>
<td>Finish</td>
<td>Hot galvanised, Powder</td>
</tr>
<tr>
<td></td>
<td>coated, any RAL colour,</td>
</tr>
<tr>
<td></td>
<td>Stainless-Steel cover</td>
</tr>
<tr>
<td>Crash Tested</td>
<td>PAS68/IWA14-1 rated</td>
</tr>
</tbody>
</table>
AUTOMATIC BOLLARDS
HYDRAULIC BOLLARDS

AB-275-900CS / AB-275-900S

Hydraulic movement: The most reliable technology for most intense temperatures and weather conditions.

Built-in hydraulic pump in the bollard: These bollards have many advantages, particularly in installations on locations with severe winter temperatures or when the installation requires a considerable distance (up to 80 meters) between the Bollard and the control unit.

Patented system for the protection of handling: To maximize the reliability of operations due to impact by vehicles on the cylinder that is put in motion.

Wide range of optional configurations: Custom colors, flashing lights integrated into the head, intermittent sound signal, heat resistance installations in locations with harsh winter temperatures, UPS unit for operation in the temporary occurrence of power failure, equipment control, equipment accident prevention (see accessories and optional items).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>900mm (on ground)</td>
</tr>
<tr>
<td>Diameter</td>
<td>275mm</td>
</tr>
<tr>
<td>Material (CS)</td>
<td>Steel</td>
</tr>
<tr>
<td>Material (S)</td>
<td>AISI 304 Grade Stainless Steel</td>
</tr>
<tr>
<td>Rise/Fall Time</td>
<td>3 to 5 seconds</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-5 to 70°C</td>
</tr>
<tr>
<td>Operation</td>
<td>Electronic control. Rise/fall automatically</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>250,000 J</td>
</tr>
</tbody>
</table>
The AB-275K4-900S bollard is recommended for use in any security sensitive site like company driveways, industrial driveways, research centres, embassies, police facilities, military bases, etc..

The AB-275K4-900S is available with a large number of optional accessories that allow you to customize your system according to your security needs.

Hydraulic movement: The most reliable technology for most intense temperatures and weather conditions.

Built-in hydraulic pump in the bollard: These bollards have many advantages, particularly in installations on locations with severe winter temperatures or when the installation requires a considerable distance (up to 80 meters) between the Bollard and the control unit.

Patented system for the protection of handling: To maximize the reliability of operations due to impact by vehicles on the cylinder that is put in motion.

Wide range of optional configurations: Custom colors, flashing lights integrated into the head, intermittent sound signal, heat resistance installations in locations with harsh winter temperatures, UPS unit for operation in the temporary occurrence of power failure, equipment control, equipment accident prevention (see accessories and optional items).

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</tr>
<tr>
<td>Working Temperature</td>
<td>-5 to 70°C</td>
</tr>
<tr>
<td>Operation</td>
<td>Electronic control. Rise/fall automatically</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>700,000 J</td>
</tr>
</tbody>
</table>
HYDRAULIC BOLLARDS

AB-220-900CS / AB-220-900S

Hydraulic movement: The most reliable technology for intense temperatures and weather conditions.

Built-in hydraulic pump in the bollard: These bollards have many advantages, particularly in installations on locations with severe winter temperatures or when the installation requires a considerable distance (up to 80 meters) between the Bollard and the control unit.

Patented system for the protection of handling: To maximize the reliability of operations due to impact by vehicles on the cylinder that is put in motion.

Wide range of optional configurations: Custom colors, flashing lights integrated into the head, intermittent sound signal, heat resistance installations in locations with harsh winter temperatures, UPS unit for operation in the temporary occurrence of power failure, equipment control, equipment accident prevention (see accessories and optional items).

<table>
<thead>
<tr>
<th>Height</th>
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<tbody>
<tr>
<td>Diameter</td>
<td>275mm</td>
</tr>
<tr>
<td>Material (CS)</td>
<td>Steel</td>
</tr>
<tr>
<td>Material (S)</td>
<td>AISI 304 Grade Stainless Steel</td>
</tr>
<tr>
<td>Rise/Fall Time</td>
<td>3 to 5 seconds</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-5 to 70°C</td>
</tr>
<tr>
<td>Operation</td>
<td>Electronic control. Rise/fall automatically</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>150,000 J</td>
</tr>
</tbody>
</table>
**PNEUMATIC BOLLARD**

**AB-PB168-900S**

Pneumatic automatic bollard is usually installed in the vehicle entrance / exit and control point. Commands are sent by remote control or other control system to make bollard automatically back to ground level to realise barrier-free passing.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height</strong></td>
<td>900mm</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>168mm</td>
</tr>
<tr>
<td><strong>Operation Mode</strong></td>
<td>Pneumatic</td>
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<tr>
<td><strong>Material</strong></td>
<td>Stainless Steel</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td>Sub-Surface Mounted</td>
</tr>
</tbody>
</table>
STAINLESS STEEL, ANTI-RAM RAIDABLE SEMI AUTOMATIC PNEUMATIC RETRACTABLE BOLLARD

AB-BO168P4-900-S

Description:
Pneumatic Bollard.

Housing Dimensions:
219mm (Dia) X 1137mm (Height)

Top Dimensions:
306mm X 376mm

Material:
Stainless Steel.

Installation:
Sub-surface installation

Additional Notes:
Also available in powder coated yellow finish.
- Key Lockable
- Easy Twist Lock System
- Available in Stainless Steel & Powder Coated Yellow
**LIGHT WEIGHT MYSPACE BOLLARD**

**AB-TLL90-Y**

**Description:**
We understand that personalised reserved parking is an increasing expense and valuable asset that must be protected in today’s busy world. At Australian Bollards we know first hand the frustration you experience when your space is occupied by an unwelcome visitor. Australian Bollards’ “My Space Bollard” protects your investment and allows you peace of mind by eliminating the possibility of a complication with an uninvited guest.

Australian Bollards offer optional extras to compliment the purchase of your new “My Space Bollard”. Additional mounting base plates that enables you to store your “My Space Bollard” securely when not in use. In the case of multiple “My Space Bollard” users all your units can be keyed alike for ease of operation.

MY SPACE bollards are our flagship. Weighing only 7 kg, it is ideal for protecting boats, caravans and trailers along with deterring unwanted guests from designated parking spots.

**Post Dimensions:**
950mm (Height) x 90mm (DIA)

**Base Dimensions:**
220mm (DIA) x 20mm (Thickness)

**Material:**
Galvanised, Metallic powder coated.

**Installation:**
Surface mounted with 4 off 12 X 65mm Sleeve Anchors (Anti Theft & Anti Tamper)

**Additional Notes:**
Bollard is Engineer Certified. Bollard has branded reflective tape.
STANDARD MYSPACE BOLLARD PROTECTS YOUR SPACE

AB-TLB90-Y

Description:
We understand that personalised reserved parking is an increasing expense and valuable asset that must be protected in today’s busy world. At Australian Bollards we know first hand the frustration you experience when your space is occupied by an unwelcome visitor. Australian Bollards’ “My Space Bollard” protects your investment and allows you peace of mind by eliminating the possibility of a complication with an uninvited guest.

Australian Bollards offer optional extras to compliment the purchase of your new “My Space Bollard”. Additional mounting base plates that enables you to store your “My Space Bollard” securely when not in use. In the case of multiple "My Space Bollard" users all your units can be keyed alike for ease of operation.

MY SPACE bollards are our flagship. Weighing only 11.9 kg, it is ideal for protecting boats, caravans and trailers along with deterring unwanted guests from designated parking spots.

Post Dimensions:
950mm (Height) x 90mm (DIA)

Base Dimensions:
220mm (DIA) x 20mm (Thickness)

Material:
Galvanised, Metallic powder coated.

Installation:
Surface mounted with 4 off 12 X 65mm Sleeve Anchors (Anti Theft & Anti Tamper)

Additional Notes:
Bollard is Engineer Certified. Bollard has branded reflective tape.
STAINLESS STEEL STANDARD MYSPACE BOLLARD PROTECTS YOUR SPACE

**AB-TLB90-S**

**Description:**
We understand that personalised reserved parking is an increasing expense and valuable asset that must be protected in today’s busy world. At Australian Bollards we know first hand the frustration you experience when your space is occupied by an unwelcome visitor. Australian Bollards’ “My Space Bollard” protects your investment and allows you peace of mind by eliminating the possibility of a complication with an uninvited guest.

Australian Bollards offer optional extras to compliment the purchase of your new “My Space Bollard”. Additional mounting base plates that enables you to store your “My Space Bollard” securely when not in use. In the case of multiple “My Space Bollard” users all your units can be keyed alike for ease of operation.

MY SPACE bollards are our flagship. Weighing only 11.9 kg, it is ideal for protecting boats, caravans and trailers along with deterring unwanted guests from designated parking spots.

**Post Dimensions:**
950mm (Height) x 90mm (DIA)

**Base Dimensions:**
220mm (DIA) x 20mm (Thickness)

**Material:**
304 Grade Stainless Steel

**Installation:**
Surface mounted with 4 off 12 X 65mm Sleeve Anchors (Anti Thef & Anti Tamper)

**Additional Notes:**
Bollard is Engineer Certified. Bollard has branded reflective tape.
EMERGENCY HELP POINT BOLLARD

Emergency Help Point Bollard
Now Servicing:

SUNSHINE COAST UNIVERSITY
HOSPITAL KAWANA WATERS
EMERGENCY HELP POINT BOLLARD

AB-EHPB

Description:
The Emergency Help Point Bollard can be used in numerous surroundings. Train stations, bus stops, tram stops, ATM’s, car parks, university campuses, school grounds, sports arenas, all public areas, border patrols, parks, gardens and hospitals.

Post Dimensions:
2000mm (Height) x 150mm X 150mm

Base Dimensions:
300mm x 300mm x 16mm (Thickness)

Material:
Zinc Coated Mild Steel, Metallic Powder Coated.

Installation:
Surface mounted (anti-theft & anti tamper)
SOLAR POWERED, EMERGENCY HELP POINT BOLLARD

AB-SPEHP-200

Description:
Australian Bollards NJM GROUP launches the new Wireless 4G Emergency Help Point Bollard. Built from 200mm x 200mm rust proof RHS finished with a rippled powder coating, mounted on a 16mm base plate our New Wireless Help point offers versatility complete with a turnkey operation, we can also customise to suit your requirements.

The new wireless, standalone solar powdered Emergency Help Point Bollard can be integrated into any existing monitoring security system and can be implemented with minimal infrastructure, saving the client thousands of dollars in implementation works. Mounted Solar Panel that powers the inbuilt batteries giving operation for a minimum 72 hours, a fully integrated camera with DVR allowing easy download.

Warning alarm and flashing blue light triggered by turbine speaker providing the user a quick response from authorities or as an information base, once the HELP button is activated our New Wireless 4G Help Point responds instantly; recording and sending a distress signal to authorities.

One of the greatest advantages is that the new SPEHP200 (Solar Power Emergency Help Point) is standalone. With its 4G capability, reaching 99.3% of the Australian Population, it can connect remote emergencies to the appropriate security and medical agencies. From the mountains to the coast, the new standalone Help Point Bollard offers a new mechanism for saving lives - 24/7 keeping Australians safer. Our New Wireless 4G Help Point Bollard would suit many applications such as, bus terminals, car parks, universities, public parks, special events, shopping centres and many other application.
BIKE HOOPS

AB-BRH850-GAL

Description:
Holds up to two bikes per unit.

Dimensions:
850mm x 800mm

Material:
Galvanised Steel

Installation:
Surface mounted

Additional Notes:
Also available in Stainless Steel
BIKE HOOPS

AB-BRR850-GAL

Description:
Holds up to two bikes per unit.

Dimensions:
850mm x 800mm

Material:
Galvanised Steel

Installation:
Surface mounted

Additional Notes:
Also available in Stainless Steel
WALL BIKE HOOPS

AB-BRNK-500

Description:
Vertical Hanging Bike Racks

Material:
Steel - Black powder coated finish.

Installation:
Wall mounted.

Additional Notes:
Fully supports bikes without any damage to the frame or wheels. Most space efficient method.
KEY BIKE/CYCLE RACK STAND BOLLARD

Description:
The key to a unique urban landscape design feature, is the innovative Key Bike, cycle Rack Stand Bollard. Our modern economy free standing, sturdy bike rack is designed for improved stability and wheel protection for a modern bike rack with unique style, the Key Bike, cycle Rack Stand Bollard is the only choice.

Rather than the traditional Cycle Rack, Cycle Hoops, Floor Mounted Cycle Stand, Wall Mounted Cycle Stand, Universal Floor/Wall Cycle Racks, Semi-Vertical Cycle Racks, Economy Staggered Height Cycle Racks, Harrogate Hoop Cycle Racks, Hooped Cycle Racks, Heavy Duty Cycle Racks, Staggered Height Cycle Racks, Cycle Racks with Front Wheel Ramps, Staggered Height Cycle Racks with Support, Vertical Cycle Holder, Cycle Racks with Full Length Ramps.

The Key Bike/Cycle Rack Stand Bollard, with its base and unique key shaped frame finished, is a real innovative idea, design award winner, for those recipients who have made the change. This modern bike rack offering two points of contact for secure placement of valuable property. Bikes can be secured at both the frame and the wheel for added protection over single-point bike racks.

Perfect for crowded sidewalks, the small footprint minimizes obstruction to walkways. Able to accommodate up to two bikes at a time - one on either side, this is a great choice for light to medium traffic areas. Constructed from heavy-duty thick steel, this rack will provide years of worry-free service. For a modern bike rack with unique style, the Key Bike/ Cycle Rack Stand Bollard is a great choice.
ONE SIDED TROLLEY CARROL

AB-TRC-L01

Details:

- L-Shaped Trolley Corral - One Sided Only
- Stainless Steel
- Surface Mounted
- 3600mm in length, 800mm wide and 1100mm height
- Suitable for luggage trolleys at Airport Terminals
TWO SIDED TROLLEY CARROL

AB-TRC-L02

Details:

- U-Shaped Trolley Corral
- Stainless Steel
- Surface Mounted
- 3600mm in length, 900mm wide and 750mm height
- Suitable for luggage trolleys at Airport Terminals
Description:
Australian Bollards’ heavy duty Convex Mirror is made from PP injected mirror back (Anti UV and Anti Aging) with an acrylic mirror face, ideal for Australia’s harsh weather conditions. Specially designed by Australian Bollards for use on bends or intersections where view is limited, our heavy duty Convex Mirror shows the whole surrounding traffic situation clearly. Australian Bollards Convex Mirrors come with both wall and pole mount brackets. Featured with high light transmittance, good image reflection and shock resistance, the top of the Convex Mirror housing is fitted with a small piece of convex baffle to ensure images will still be clear, even on rainy days.

Dimensions:
450mm DIA

Material:
PP injected mirror back (Anti UV & Anti Aging) aluminium circle, zinc plated install brackets and acrylic mirror face.

Installation:
Can be both pole and wall mounted.

Additional Notes:
Also available in 600mm (DIA) and 1000mm (DIA)
Description:
NJM Group, Australian Bollards is ready to install Car Park Storage Boxes into apartment residential parking developments. At NJM Group, Australian Bollards, we pride ourselves in being apartment storage experts and we are confident that we have found the solution for your apartment building. With ample space, Australian Bollards’ Car Park Storage Boxes command attention and are sure to impress.

Standard Features:
- All steel construction.
- KD design, EZ assembly.
- Adjust feet for uneven floors.
- Gas struts for easy door opening and closing.
- Secure 3 points lockable door.
- Hammer stone powder-coated finish.
- Great range of storage accessories.
- Sits free-standing on your car space floor.

Dimensions:
A - 2510mm  B - 2200mm  C - 1100mm  D - 1050mm

Material:
Steel

Storage Capacity:
3.1m³

Optional Features:
- No rusting, all aluminium construction.
- Internal adjustable shelving.
APM Shelter – Skidata Paystation

AB-APM

Description:
APM Shelter is designed specifically for Skidata Paystation, tasked with protecting the machine from external damage and providing shelter for users of the product. With side and rear walling, supported roofing and the option of stainless steel bollards at the front of the system, APM Shelter leaves no stone unturned in its bid to offer high quality security.

The Skidata Paystation is the premium choice for multiple payment options and data carrier technologies. An elegant design, high reliability and great serviceability ensure an outstanding user experience that is further enhanced by the machine’s ability to process barcode, magnetic, and RFID technologies.

It is imperative that pay stations are adequately protected. Not only are Skidata products meticulously engineered using quality materials and technology, they can also carry substantial amounts of money at any given time. Thanks to the ATM Shelter from Australian Bollards, the Skidata Paystation is receiving the ultimate security solution.
ARCHITECTURAL APM SHROUDS – SKIDATA PAYSTATION

AB-APM-S

Description:
Architectural APM (Automated Payment Machine) Shrouds are stainless steel solutions that can be applied to a variety of scenarios and are often manufactured within a portion of the wall to provide outstanding security for pay stations, ATMs, movie kiosks and Myki top up units.

Architectural Shrouds can also be complemented by bollards in order to maximise protection by safeguarding the device from high vehicular impact. This two layered security measure ensures that not only can the machine not be removed, it will ordinarily be unable to be physically struck by the vehicle.

Tailored to house Skidata Automated Payment Machines, this product is fully customisable and comes with free installation from the team at Australian Bollards.

![Image of Architectural APM Shroud](image-url)
ARCHITECTURAL FACADE PANELLING

AB-FP

Description:
Architectural Façade Panelling is a design solution utilised to deliver an aesthetically pleasing finish from an architectural perspective. Commonly used in hotels, residential apartment buildings and schools, architectural panelling aims to create visual appeal and add character to a structure. Architectural Façade Panelling from Australian Bollards is available in a variety of designs and is fully customisable, ensuring the customer is able to achieve their desired finish right down to the smallest detail. The customisation process can include the manufacture of symbols or wording imbedded within the panelling, ideal for brand exposure and providing a visual entrance to a particular location.
AB-Lightbox

Description:
Lightboxes are cube shaped structures engineered to emit light for illuminating public and private space depending on the application. Equipped with a striking façade on the exterior, the Lightbox by Australian Bollards is also customisable and easily installable.
PORTOFINO DRINKING FOUNTAIN

AB-PDF-S

Description:
The Portofino Drinking Fountain is the premium option for personal hydration. Manufactured from 316 stainless steel and electro polished for greater longevity and maintenance, the Portofino features a wide bowl beneath the bubbler designed to reduce water spillage and enhance the user experience. Fully customisable, the Portofino Drinking Fountain is perfect for parks, sporting grounds, entertainment complexes and any public space where people exercise regularly.

Height:
1200mm (Above Ground)
150mm (In Ground)

Diameter:
168mm (Post Diameter)
700mm (Bowl Diameter)

Weight:
23kg

Material:
316 Stainless Steel & Electro Polished.

Additional Notes:
We also manufacture a matching drinking fountain unit which has a dog bowl at the base which collects water.
PUBLIC CANOPIES

AB-PC

Description:
Public Canopies offer shelter and overhead protection in a visually striking design. With the option to customise, these products can be tailored to suit a vast array of situations and can be easily installed by the team at Australian Bollards.

Often utilised at tram stops, train stations and bus depots, Public Canopies are ideal for safeguarding against miserable weather conditions like rain and storms, particularly when the rear of the structure is also covered to prevent wind chill.

Public Canopies by Australian Bollards are an excellent way of improving public amenity and a sure fire solution to enhancing the convenience, safety and architectural flair of a community space.
STAINLESS STEEL – BEACH SHOWER

AB-SS-BS

Description:
The Portofino Drinking Fountain is the premium option for personal hydration. Manufactured from 316 stainless steel and electro polished for greater longevity and maintenance, the Portofino features a wide bowl beneath the bubbler designed to reduce water spillage and enhance the user experience. Fully customisable, the Portofino Drinking Fountain is perfect for parks, sporting grounds, entertainment complexes and any public space where people exercise regularly.
STAINLESS STEEL - BENCH

AB-SS-B

Description:
The Stainless Steel Bench from Australian Bollards is a practical and stylish seating solution. Part of our expansive range of street furniture, these benches are customisable and come in a sleek, stainless steel finish.

A celebration of functionality, the Stainless Steel Bench can be utilised in a variety of situations such as at schools, hospitals, parks, shopfronts, hotels, sporting grounds and essentially any public space.
STAINLESS STEEL - DRINKING FOUNTAIN

AB-SS-DF

Description:
The Stainless Steel Drinking Fountain is a practical and cost effective hydration solution. Traditionally installed in a right angle shaped profile, this product features a rectangular crevice below the bubbler for capturing excess water and avoiding spillage.

The Stainless Steel Drinking Fountain can be customised and installed by Australian Bollards and is perfect for use in parks, recreation centres and sporting facilities.
CAR PARK OVER BONNET STORAGE LOCKER

AB-CPSL-2300

Description:
NJM Group, Australian Bollards is ready to install Car Park Storage Boxes into apartment residential parking developments. At NJM Group, Australian Bollards, we pride ourselves in being apartment storage experts and we are confident that we have found the solution for your apartment building. With ample space, Australian Bollards’ Car Park Storage Boxes command attention and are sure to impress.

Standard Features:
• All steel construction.
• KD design, EZ assembly.
• Adjust feet for uneven floors.
• Gas struts for easy door opening and closing.
• Secure 3 points lockable door.
• Hammer stone powder-coated finish.
• Great range of storage accessories.
• Sits free-standing on your car space floor.

Dimensions:
A - 2510mm  B - 2300mm  C - 1100mm  D - 1050mm

Material:
Steel

Storage Capacity:
3.1m³

Optional Features:
• No rusting, all aluminium construction.
• Internal adjustable shelving.
ACCESS CONTROL SYSTEM – HOUSING & POST

For:
KEY PADS, INTERCOMS, HID, PROXIMITY, SWIPE & SMART CARD READERS.

Car Height:
- Single bend post
- Double bent post

Truck Height:
- Double bend post

Car & Truck Height:
- Double bend post
CAR READER POST & HEAD

AB-RP2

Post Dimensions:
100mm x 100mm x 1200mm (Height)

Base Dimensions:
230mm x 230mm x 10mm

Material:
Duragal, Zinc Coated Mild Steel, Metallic Powder Coated. Also comes in Stainless Steel

Additional Notes:
Locking fixtures are certified into concrete post tension slabs 150mm thick.

ACCESS CONTROL SYSTEM HOUSING STANDS can be made with Plain Head (AB-PH-2) to suit Intercoms, HID, proximity, swipe and smart card readers.

AB-IH1

Head Dimensions:
280mm (Width) x 290mm (Height) x 143mm (Top Depth) x 75mm (Bottom Depth)

Material:
304 Grade Stainless Steel. Box Yellow Powder Coated

Additional Notes:
We can manufacture Head to suit any Intercom unit. Faceplate material is Stainless Steel and made to fit the box.
SINGLE HEIGHT CAR POST SINGLE BEND HEAD

AB-RP1

Post Dimensions:
100mm x 100mm x 1200mm (Height)

Base Dimensions:
230mm x 230mm x 10mm

Material:
Duragal, Zinc Coated Mild Steel, Metallic Powder Coated. Also comes in Stainless Steel

Additional Notes:
Locking fixtures are certified into concrete post tension slabs 150mm thick.
ACCESS CONTROL SYSTEM HOUSING STANDS can be made with Plain Head (AB-PH-2) to suit Intercoms, HID, proximity, swipe and smart card readers.

AB-PH2

Head Dimensions:
120mm (Width) x 155mm (Height) x 50mm (Top Depth) x 20mm (Bottom Depth)

Material:
304 Grade Stainless Steel. Bead Blasted

Additional Notes:
Face Plate material is stainless steel and made to fit the box.
SINGLE HEIGHT TRUCK POST DOUBLE BEND HEAD

**AB-TP1**

Post Dimensions:
100mm x 100mm x 2100mm (Height)

Base Dimensions:
230mm x 230mm x 10mm

Material:
Duragal, Zinc Coated Mild Steel, Metallic Powder Coated.

Additional Notes:
Locking fixtures are certified into concrete post tension slabs 150mm thick.

**AB-IH1**

Head Dimensions:
280mm (Width) x 290mm (Height) x 143mm (Top Depth) x 75mm (Bottom Depth)

Material:
304 Grade Stainless Steel. Box Yellow Powder Coated

Additional Notes:
We can manufacture Head to suit any Intercom unit. Faceplate material is Stainless Steel and made to fit the box.
**TRUCK POSTS**

**AB-TP2**

Post Dimensions:
100mm x 100mm x 2100mm (Height)

Base Dimensions:
230mm x 230mm x 10mm

Material:
Duragal, Zinc Coated Mild Steel, Metallic Powder Coated.

Additional Notes:
Locking fixtures are certified into concrete post tension slabs 150mm thick.

**AB-IH1**

Head Dimensions:
280mm (Width) x 290mm (Height) x 143mm (Top Depth) x 75mm (Bottom Depth)

Material:
304 Grade Stainless Steel. Box Yellow Powder Coated

Additional Notes:
We can manufacture Head to suit any Intercom unit. Faceplate material is Stainless Steel and made to fit the box.
IR THERMAL DETECTOR (HANDHELD)

Features:

Australian Bollards has come up with a public health and safety security system. It is the perfect way to manage your team’s health and safety. It can be installed at a wide range of locations. The health, safety and security system can be implemented to keep the following places and personnel safe; remand centre, correctional facilities, staff, business’, workplaces, airports, schools, transport stations and terminals.

The IR Thermal Detector is able to provide a high level of security specifically when it comes to material and/or biological matters, as it can detect heat patterns and when activated it will let off an alarm to alert operators of the situation so they are able to take the appropriate action required.
GPS TRACKER ANKLET

Features:

As of midnight on the 16th of March, the Australian Federal Government made it legislation that anyone overseas returning to Australia or is infected with the coronavirus must spend a mandatory 14 days in quarantine and self isolation to prevent the spread of the disease. Cruise ships have also been barred from docking in Australia for the next 30 days.

It can be quite a challenge to monitor the self isolation process of those infected with the virus, but NJM Group has the devised the solution that will keep the public safe and secure from those who elect to not comply with the latest health regulations. The solution is our AB-GPS Tracker Anklets.

With both Victoria and ACT declaring a state of emergency and the Federal government enforcing strict travel restrictions to halt the virus’s spread within our borders, these “digital shackles” are a viable solution that will help our governments keep track and monitor the locations of people serving 14 days of quarantine and self isolation.
SOCIAL DISTANCING FLOOR STICKER

Description:
Keeping Corona Virus at Bay – My Space. Maintaining public safety by social distancing with our Non-Slip Floor Sticker. Book Your Supply Now!

Dimensions:
DIA: 600mm
BUMP RAILS
AUSTRALIAN BOLLARDS
RHINO SECURITY FENCING
ABRSF790D

Product Overview:
Made up of seamless steel post and high-density welded mesh panel, dismantle prevention connector and accessories. It accommodates uneven terrain and different angle and convenient and easy to install.

High Security:
Supreme transparency ensures wide view, minimize perimeter blind area and blind angle. It can effectively resist intruders and deterrent to climbing the fence. M type design enhances the strength of post. High-density welded mesh panel with the safety function of anti-shear. Unique tooth clamp connection structure, greatly reduce the possibility of dismantle. There are various optional accessories such as crank arm, barbed wire and concertina razor wire.

Modern Vision Aesthetics:
The harmonious combination was made up from several factors like simple structure design, supreme transparency, human beings and environment. It becomes important architecture symbol in perimeter protection.

Long Lifetime:
Advanced coating technology ensures extra long lifetime. Quick Installation. Accommodate uneven terrain, installation with different angle. Master convenient, install simple, reduce cost.

Available as a Complete System:
Fence and swing gate form a complete system.
CANTILEVER GATE SYSTEM

AB-CGS-PAS68

The PAS 68 Cantilever Gate System is the perfect solution in providing ultimate protection to your business’ entryway. Designed, engineered and supplied from our factory, completely assembled and tested by us. The gate is either electrically or hydraulically dependent on client specifications.

With a locking pin that ensures our product is secure before impact, the gate is very smooth and quiet and has exceptional control in both directions. It has a standard operating speed of 250mm/sec providing heavy-duty cantilever rolling gear and high-quality bearings and rollers. This product also has a powerful PLC with built-in diagnostics, including programmable inputs and outputs that provide numerous options, depending on client requirements.

The gate is galvanised, and powder coated to a standard RAL colour. It has a vertical bar infill with options of different mesh and security topping available. What makes this product even more promising is that if a power failure occurs, the gate has a full manual override system.

The gate system does not use a track, but a carriage-based system instead. The Cantilever Gate System is extremely durable, unlike ‘Track Gates’ this gate system cannot be lifted off its track. The installation of the Cantilever Gate can be done without disruption to the driveway, unlike track gates. Humps or dips in the driveway does not affect the installation of the gate.

The Gate has a rating of PAS 68 - Publicly Available Specification for vehicle security barriers against hostile vehicle mitigation (HVM) and vehicle-borne improvised explosive devices (VBIED). This is the standard for impact testing and rating hostile vehicle mitigation products. The Cantilever Gate can withstand the impact of a 7.5-tonne truck travelling at 64 kilometres per hour.
FITTINGS

FISH PLATE, BOLTS & NUTS (M8, M12)

Fish plates are used as the connection between the IPE and angle rail.

- General Use
  - Fish Plate

  - Electricity Providers and Regional Networks
  - Water Industry
  - Elecoms Industry
  - Police and Law enforcement
  - Railway Line/Track Protection
  - Motorway and Highway Protection
  - Schools, Colleges and Universities
  - Research Laboratories.

- M12 Bolts & Nuts.
  For use with horizontal rails.

- M8 Bolts & Nuts.
  Used to fix pales to rails.
PROPERTY & ASSET PROTECTION
INDUSTRIAL SERVICES
PIPING TUBING,
DOWNPIPE GUARDS

AB-SERVICES PIPING, TUBING,
DOWNPIPE GUARDS

Description:
The steel industrial piping, tubing guards - downpipe protectors are essential to the protection of your building and workers with additional safety from vehicle accidents or damage.

These units are made of a heavy duty steel.

Construction:
These models have a solid steel construction.

Size:
This series accommodates 50mm, 75mm, 100mm, 150mm, 200mm, 250mm or 300mm pipe as standard design.

Standard:
Standard flange mounts to flat walls and 45 degree flange mounts to exterior corner walls.

Colour:
These units are available in powder coated yellow paint or Hot Dip Galvanized protective coating.
AB-COLUMN GUARD

Description:
Column guards feature a two-piece design for protecting in-plant columns and other vertical supports.
They feature 2 base plates, each of which has 4 pre-drilled mounting holes.

Construction:
Heavy-duty welded steel construction.

Service Range:
Columns and vertical supports with measurements of up to 500mm by 500mm.

Size:
600mm, 900mm and 1200mm heights. The units have outside diameter of 114mm and a base plate size of 200mm by 200mm.

Colour:
These units are available in powder coated safety yellow.
AB-CORNER GUARD

Description:
This triple elbow corner guard protects wall corners of buildings and machinery from damage caused by fork trucks or other mobile equipment. The 90 degree bend of this corner guard fits snugly around corners to provide optimum protection. They feature 2 base plates, each of which has 4 pre-drilled mounting holes.

Construction:
Welded steel construction.

Size:
600mm, 900mm or 1000mm heights and in 600mm or 750mm lengths. Outside diameter of 114mm and a base plate size of 200mm by 200mm.

Colour:
These units are available in powder coated safety yellow.
STORAGE RACKING END GUARDS

AB-STORAGE RACKING END

Description:
Steel pipe storage rack end guards are ideal for use indoors to protect valuable pallets, property and personal. These safety storage rack guards are constructed of heavy-duty, all-welded steel pipe. They feature 2 base plates, each of which has 4 pre-drilled mounting holes.

Construction:
Heavy-duty welded steel.

Size:
Range in height from 230mm to 400mm and come in lengths of either 900mm or 1200mm. The units have outside diameter of 114mm and a base plate size of 200mm by 200mm.

Colour:
These units are available in powder coated safety yellow finish.
AB-BARRIER GUARD

Description:
The high profile barrier guards are designed to help enable fork truck and mobile equipment safety. They are ideal for protecting building walls, racks and many different types of expansive equipment. They feature 2 base plates, each of which has 4 pre-drilled mounting holes.

Construction:
Heavy-duty welded steel.

Size:
Range in height from 600mm to 1000mm and come in lengths of either 900mm or 1200mm. The units have outside diameter of 114mm and a base plate size of 200mm by 200mm.

Colour:
These units are available in powder coated safety yellow.
Description:
These barriers are designed and installed to remind people of overhead low clearance height restrictions and also to prevent access to un-authorised areas.

Such as staff car parks or underground car parks, protecting overhead edges and building structures, vehicle entrance ways, from damage caused by trucks or other mobile equipment using height as a limiting barrier.

As with all barriers we manufacture, the Height Restriction & Overhead Entrance Way Warning Barriers are designed and built to be as a robust, sturdy barrier for the application intended. Because of the very diverse range of building entrance openings, during the design and construction phase of our products, consideration is given multi height limitations and widths that our Overhead Entrance Way Warning Barriers can be constructed for.

Construction:
Custom built to suit exact heights and spans. Welded steel construction. Sturdy 100mm sq. Section uprights (Typical). Frame - Steel painted or Gal. Separate nudge bar & height restriction signs Nudge bar arm - Aluminium or steel

Size:
2000mm to 9000mm (Typical)
2000mm to 4000mm (Typical)

Colour:
OVERHEAD ENTRANCE WAY WARNING BARRIERS

AB-OVERHEAD ENTRANCE WAY WARNING BARRIER

Description:
These warning barriers are designed and installed to protect overhead clearance height restrictions on doorways from fork lift trucks and other through traffic, entering and exiting on a daily basis, by physically reminding people of overhead low restrictions that apply beyond. Thus protecting overhead edges and building structures of vehicle entrance ways, from damage caused by trucks or other mobile equipment as a limiting barrier.

As with all barriers we manufacture, the Overhead Entrance Way Warning Barriers are designed and built to be as a robust, sturdy barrier for the application intended. Because of the very diverse range of building entrance openings, during the design and construction phase of our products, consideration is given multi height limitations and widths that our Overhead Entrance Way Warning Barriers can be constructed for.

Construction:
Welded steel construction.
Constructed sturdy with tubular steel uprights 100mm sq. Section uprights (Typical).
Frame - Steel painted or Gal.
Separate nudge bar & height restriction signs (Optional) Nudge bar arm - Aluminium or steel (Optional)
Guard will not interfere with the normal overhead operation.

Size:
Custom built to suit exact heights and spans.

Colour:
Frame standard is safety yellow. Corporate colours available upon request. Nudge bar arm optional - Safety yellow powder coated. Nudge bar height restriction signage optional.
HEIGHT BARS

Features:
Eliminates damage to vehicles and property caused by oversized vehicles entering areas of restricted height. Available in various lengths.
Comes complete with hanger assemblies and chain. Powder coated high visibility safety yellow.
Optional offset hangers.
Free-standing surface mount or below ground posts are available.
Use height bars at locations where vehicles first enter an area of restricted height.

Dimensions:
Welded steel construction.
100mm x 50mm X Various Lengths

Material:
Galvanised Tube, Metallic powder coated.

Installation:
Masonry Anchors to building / Free-standing.
VMS / DYNAMIC RATE BOARDS
# Car Park Variable Rate Board

**EDS-43**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>1850 x 655 x 150mm</td>
</tr>
<tr>
<td><strong>Display Size</strong></td>
<td>43”</td>
</tr>
<tr>
<td><strong>Display Ratio</strong></td>
<td>16:9</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1080 x 1920</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>4000:1</td>
</tr>
<tr>
<td><strong>Contrast Ratio</strong></td>
<td>2500cd/m², sunlight readable self-adjusting screen brightness, backlight LED</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>1.07B (8bit + FRC);</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Colour Saturation: 75% Windows 7</td>
</tr>
<tr>
<td><strong>IP Grade</strong></td>
<td>IP55</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
<td>Full metal housing with excellent heat conducting properties</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>240 W; Power Supply: AC 100~240V</td>
</tr>
<tr>
<td><strong>Working Hours</strong></td>
<td>50,000 hours</td>
</tr>
<tr>
<td><strong>Working temperature</strong></td>
<td>~40°C + ~55°C</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>Intelligent temperature control fan fooling, auto adjusts according to internal temperature</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>USB/HDMI/RJ45/SD1</td>
</tr>
</tbody>
</table>
# CAR PARK VARIABLE RATE BOARD

**EDS-55**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2100 x 850 x 150mm</td>
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<tr>
<td>Display Size</td>
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<tr>
<td>Display Ratio</td>
<td>16:9</td>
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<tr>
<td>Resolution</td>
<td>1080 x 1920</td>
</tr>
<tr>
<td>Brightness</td>
<td>4000:1</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>2500cd/m², sunlight readable self-adjusting screen brightness, backlight LED</td>
</tr>
<tr>
<td>Colour</td>
<td>1.07B (8bit + FRC)</td>
</tr>
<tr>
<td>Operating System</td>
<td>Colour Saturation: 75% Windows 7</td>
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<tr>
<td>IP Grade</td>
<td>IP567</td>
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<tr>
<td>Housing</td>
<td>Full metal housing with excellent heat conduction properties</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>380 W; Power Supply: AC 100~240V</td>
</tr>
<tr>
<td>Working Hours</td>
<td>50,000 hours</td>
</tr>
<tr>
<td>Working temperature</td>
<td>~40°C + ~55°C</td>
</tr>
<tr>
<td>Cooling</td>
<td>Intelligent temperature control fan cooling, auto adjusts according to internal temperature</td>
</tr>
<tr>
<td>Inputs</td>
<td>USB/HDMI/RJ45/SD1</td>
</tr>
</tbody>
</table>
CAR PARK VARIABLE RATE BOARD

EDS-K32  The EDS Kiosk is designed to provide customers with an interactive experience when visiting car dealerships and showrooms. It has an easy-to-use touchscreen interface which is customizable to suit any product. By default, it comes with Windows OS and internet connectivity for easy browsing and sharing of information.
# CAR PARK VARIABLE RATE BOARD

## EDS-65

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2450 x 1045 x 150mm</td>
</tr>
<tr>
<td>Display Size</td>
<td>65”</td>
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<tr>
<td>Display Ratio</td>
<td>–</td>
</tr>
<tr>
<td>Resolution</td>
<td>1080 x 1920</td>
</tr>
<tr>
<td>Brightness</td>
<td>2500nits, LED: Colours: 1.07B (8bit+FRC), colour saturation: 75%, Intelligent optical sensor – self-adjusting screen brightness, sunlight readable backlight</td>
</tr>
<tr>
<td>Interface</td>
<td>USB/HDMI/RJ45/SD1, viewing angle: 178 degrees, IP camera, Intercom</td>
</tr>
<tr>
<td>IP Grade</td>
<td>IP55, suitable outdoors</td>
</tr>
<tr>
<td>Housing</td>
<td>Full metal housing design, with heat conducting metals</td>
</tr>
<tr>
<td>Power</td>
<td>Features abnormal voltage fluctuations and powers off the machine</td>
</tr>
<tr>
<td>Working life</td>
<td>50,000 hours</td>
</tr>
<tr>
<td>Cooling</td>
<td>Intelligent temperature control fan cooling auto adjusts according to internal temperature</td>
</tr>
</tbody>
</table>
BUMP RAILS
AUSTRALIAN BOLLARDS
AUSTRALIAN BOLLARDS
MAKING A SAFE SHOWROOM

The Australian Bollards stainless steel bump rail is part of the Australian Bollards wall to wall rail system protection range that offers a superior level of protection, particularly in high abuse areas.

Available in different mounting options along with a variety of widths, for a safe and easy way of protecting fixtures in an industrial and commercial building environments, including retail, warehousing, medical and food industries, hotels, airports, bus stations, railway stations, tram stops, passenger check in areas, restaurants, offices, supermarkets, shops, hospitals, schools, nursing homes, retirement homes.

That can be additionally designed for hygienic environments, where the collision of trolleys, fork lift trucks and other vehicular traffic with the fabric of the building occurs, where the protection of vulnerable walls, kerbs and drains. Australian Bollards stainless steel Bump Rails can cope with most collisions and will protect kerbing, corners, pipe work, electrical cabinets, air conditioners, fire services and a host of other vulnerable fixtures from damage, prolong their life and keep them looking good, that out performs traditional timber and aluminium bump rails that never require painting. Australian bollards custom manufactures our architectural high-impact stainless steel energy absorbing safety bump rail system in a No:4 finish finished finish stainless steel high-grade heavy Duty pipe.

Our bump rails are used on interior/exterior wall or floor surfaces and are either run horizontally, at a fixed height above finished floor, or vertically on “outside” wall corners.

Our Bump Rails are also compliant with the latest Australian Standard AS 1428-2009 when installed at the height set out in the Standard as and if applicable and are ideal method to provide impact resistance required to meet the relevant 2004 OH&S act compliance codes, where and when applicable in your particular workplace situation.

Completes its one stop service to its clients with everything for stainless steel crash rails bumper guards, inclusive of custom manufacture, installation if required and annual service maintenance to keep the product looking like new.

NATION WIDE FAST DELIVERY
& PROFESSIONAL INSTALLATION BY OUR EXPERTS
WWW.AUSTRALIANBOLLARDS.COM.AU
AUSTRALIAN BOLLARDS STOPS THE NIGHTMARE

NATION WIDE FAST DELIVERY
& PROFESSIONAL INSTALLATION BY OUR EXPERTS
WWW.AUSTRALIANBOLLARDS.COM.AU

CALL FOR A FREE QUOTE:

03 9459 3488

australianbollards.com.au + 613 9459 3488
NJM GROUP CAPABILITY STATEMENT

The NJM Group is made up of five companies that design and manufacture high quality steel building and safety products; and provide related delivery and installation services. From manufacturing and distributing facilities in Heidelberg West, we service a wide range of clients located throughout Australia. The companies, listed below, are complimentary and overlap in their provision of services:

- Crown Casino (Bollards and parking/safety barriers)
- Siemens (Sunshine Coast Hospital - Emergency Help Point Bollards)
- Westfield Shopping Centres (Bollards – Australia-wide)
- Colliers (Building maintenance services, general capital improvement works)
- McConnell Dowell (Springvale Train Station – Handrail and Balustrade works)

PHILOSOPHY AND COMMITMENT

"Service, Quality and Continuous Improvement"

NJM Group is committed to providing quality products and services that consistently meet or exceed our client expectations and industry standards. We strive to improve as an organisation in our processes and hence, in the provision of our products and delivery of services. Our team will be there from start to finish to deliver the high standard of service on which we have built our reputation.

WORK AND EXPERIENCE

NJM's work ranges from:

- bespoke steel fabrications within commercial office fit-out and high quality architectural detailing
- station bicycle parking facilities, road safety railings, containment barriers and platform fencing.

CLIENTS

NJM Group serves a wide range of clients including:

- John Holland Contractors (Regional Rail Link Package A; Cardinia and Lynbrook Stations, Nunawading Station, Laverton North Station).
- Leighton Contractors (Bollards, miscellaneous steel items)
- Australand (General capital improvements works for property portfolio, bollards and handrails)
- Wilson Parking (Bollards, car parking products and equipment including card readers, SKIDATA equipment – Australia-wide)

COMPLIANCE

- Registered Commercial Building Practitioners: CB-U6782 DB-U34444 MBAV-8367.
- Building Code 2013 Compliant.
- NJM installation team hold current Working with Rail Cards (and have undertaken the relevant Track Training/ Protection Awareness course.) including Pegasus Card.

We look forward to the opportunity to work positively with you and your team.

Yours sincerely

Nicholas Marasco
General Manager - NJM Group
## NUNAWADING STATION

<table>
<thead>
<tr>
<th>Client</th>
<th>Department of Transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor:</td>
<td>John Holland Group</td>
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<tr>
<td>Contract Type:</td>
<td>Alliance</td>
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<tr>
<td>Contract Value:</td>
<td>$200M</td>
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<tr>
<td>NJM Role:</td>
<td>Subcontractor to John</td>
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NJM Provided:
- Handrails
- Balustrades
- Platform Fencing
- Down pipes

Subcontract Value: $1.7M

## LYNBROOK STATION

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<tr>
<td>Contractor:</td>
<td>John Holland Group</td>
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<tr>
<td>Contract Type:</td>
<td>D&amp;C novated design team</td>
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<td>$20M</td>
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<td>NJM Role:</td>
<td>Subcontractor to John</td>
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NJM Provided:
- Handrails
- Balustrades
- DDA Kickers
- Infill Panels

Subcontract Value: $100,000
## CARDINIA STATION

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<tr>
<td>NJM Role:</td>
<td>Subcontractor to John</td>
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**Holland, NJM Provided:**
- Handrails
- Balustrades
- DDA Kickers
- Infill Panels
- Underpass ceiling
- Lighting to Timber patterns contracted directly to MTM)

**Subcontract Value** $1.7M

## SPRINGVALE STATION

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<tr>
<td>Contractor:</td>
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<tr>
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<td>Contract Value:</td>
<td>$30M</td>
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<tr>
<td>NJM Role:</td>
<td>Subcontractor to John</td>
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</table>

**Holland, NJM Provided:**
- Handrails
- Balustrades

**Subcontract Value** $480,000