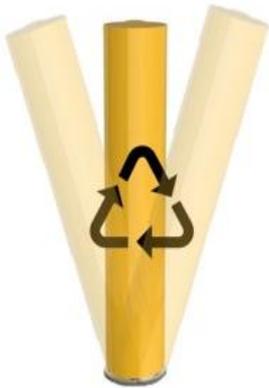
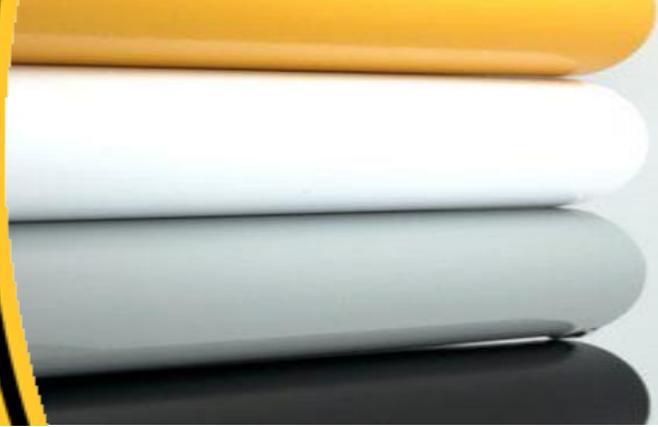


Range of options

- Galvanised steel (Std unit powder coated Safety Yellow, but can be powder coated colour of choice)
- Stainless steel (Satin finish) the most durable finish
- Advanced Polymer bollards (Std unit Safety Yellow, but available in almost any colour, including stone look - Ask for a colour chart) extremely durable option



STEEL BOLLARD

Australian made 150/165 mm \varnothing galvanised steel x 1350H quality powder coated safety yellow

\$260.00

STAINLESS BOLLARD

Australian made 168 mm \varnothing stainless-steel heavy-duty pipe x 1200H with satin finish

\$540.00

ADVANCED POLYMER

Advanced Polymer bollard 150 mm \varnothing x 1200 H in Safety Yellow smooth finish – will not fade, dent or crack

\$150.00

Inground or Surface Mounting options

ZERO WASTE Unbreakable ground sockets (350 or 650mm depth) can be installed when pouring concrete footings by simply positioning upright using tool provided.

Bollards are simply dropped into position (no pins or padlocks) “automatically” locking in using friction, which ensures they remain safe and secure perfectly aligned impact after impact, year after year.

Surface Mount base plate is a heavy duty anodised round base plate (to evenly distribute the impact force) secured using quality recessed and galvanised concrete anchors and are reusable impact after impact.



Make Impact resistant

Unless you incorporate some form of shock absorbing capability, the bollard and footing will need replacing every time it is badly impacted.

Put an end to costly maintenance by making foundations reusable for the entire lifespan of a development



S/MOUNT IRS

Suitable for solid concrete footpaths and foundations. Secured using five evenly spaced concrete anchors. Base is reusable

\$350.00



IN-GROUND IRS

We recommend 350 mm Depth footings for installation into existing solid concrete footings

\$250.00



IN-GROUND IRS

We recommend. 650 for free standing footings, and bollards subject to extreme impact. 2 Options available.

SEE OVER

Upon Low Impact

Bollards remain rigid and appear to be solid inground bollards but when impacted by a vehicle they absorb the impact force deflecting a maximum of 20 degrees and self-recovering, with no diminished capacity following hundreds of impacts

Severe Impact

When severely impacted instead of the entire footing being dislodged, the inner resistance core bends allowing the bollard to fold but not be dislodged- preventing any further forward movement of the vehicle and enabling fast reinstatement

Fast efficient replacements

Replacements are simple Following severe impact bollard is easily removed (resistance core replaced) and reinstated in less than 5 mins Bollards and Rings are re-usable impact after impact, year after year

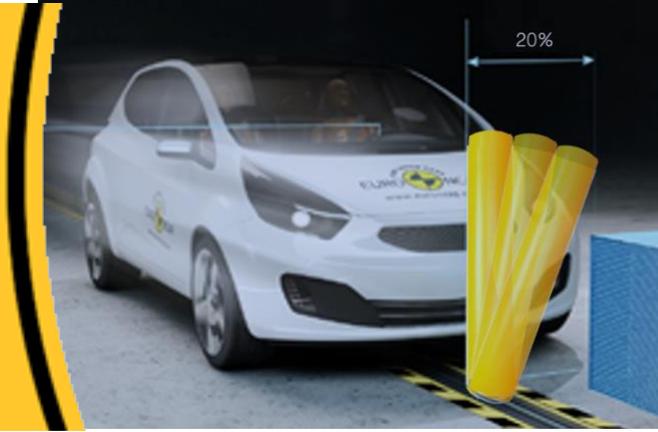
[VIEW BROCHURE](#)


work safe

Impact Recovery System

In-ground Options

Inground Impact Recovery System can be adapted to suit your requirements.



650 DEPTH IRS

We recommend 650 mm Depth footings for free standing bollards and footings installed in soil

\$300

650 DEPTH XHDIRS

We recommend Extra Heavy-Duty Impact Recovery System for improving resistance against impact by 150%

\$400

PROTECTIVE CUFF

A protective cuff is available to prevent scuffing of surrounding paving when using steel or stainless-steel bollards.

\$30.00

PROVIDING PROTECTION FOR PEOPLE AND ASSETS

The Heavy-Duty Resistance Core provides protection against forward movement of a vehicle after colliding with the bollard. For low-speed impact the Heavy-Duty Resistance Core is sufficient. If you wish to provide increased resistance against forward movement of a vehicle, you can increase the resistance core to an **Extra Heavy-duty core that provides 150% greater resistance against bending (very heavy).**

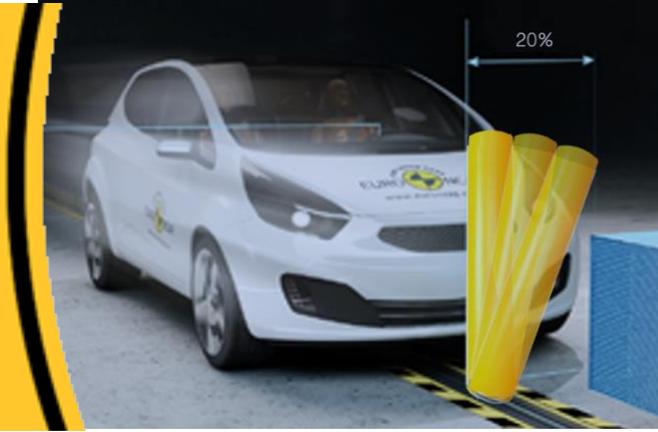
IRS INCLUDES GROUND SOCKET

The above prices include complete system: Resistance Core, two Impact Recovery Rings, ground socket, clamps and securing studs. All you need is Allen key and screwdriver.

Shock absorbing rings

The Impact Recovery Rings compress (absorbing the impact force) and slowly self-recover, with no diminished capacity following hundreds of impacts.

Greatly improving safety and efficiency – making bollards re-usable impact after impact



150 RING **ADVANCED POLYMER**

Used to secure 150 O.D
Advanced Polymer Bollards.
Includes stainless steel clamp.

\$150 PAIR

165 RING **GALVANISED STEEL**

Used to secure 165 O.D
Galvanised Steel Bollards.
Includes stainless steel clamp.

\$150 PAIR

168 RING **STAINLESS STEEL**

Used to secure 168 O.D.
Stainless Steel Bollards.
Includes stainless steel clamp.

\$150 PAIR

HIGHEST QUALITY SHOCK ABSORBING MATERIALS AVAILABLE

Although polystyrene has been used in the nationally approved Energy Absorbing Bollards as a shock absorbing mechanism, it is crushed upon impact and does not recover, so it must be sent to landfill, whereas these rings are made using an advanced Polymer and rubber compound that provides exceptional shock absorbing capabilities providing zero reduction in its ability to recover following hundreds and hundreds of impacts- making the rings reusable impact after impact, year after year.. Thoroughly market tested, for more than a decade

Only replaceable component

The resistance core is sacrificial. When a bollard is badly impacted the inner resistance core can bend and need replacing.

Put an end to waste for the entire lifespan of a development (100 YEARS OR MORE)



S/MOUNT RESISTANCE CORE

Heavy Duty Galvanised Steel. 300 mm Length with securing stud to secure core to base

\$50.00

350 MM DEPTH RESISTANCE CORE

Heavy Duty Galvanised Steel. 350 mm Depth (650 mm Length) with self-locking Taper attached

\$60.00

650 MM DEPTH RESISTANCE CORE

Heavy Duty Galvanised Steel. 650 mm Depth (950 mm Length) with self-locking Taper attached

\$80.00

650 MM DEPTH XHD RESISTANCE CORE

Extra Heavy Duty Galvanised Steel. 650 mm Depth (950 mm Length) with self-locking Taper attached

\$160.00



10 PERCENT DISCOUNT WHEN YOU ORDER A BATCH OF 100 UNITS +

AUSTRALIAN MADE

Heavy Duty Galvanised steel pipe with Self-locking Taper attached (or stud for the surface mount units). Rings are secured to the resistance core using clamps provided and are reusable. If you wish to save more money the Taper can be removed from the damaged core and re-used-. Because Heavy Duty Pipe is so strong it is easier to pre-drill the post before securing the Taper. NB: You can buy Tapers from us and make your own- please ask for specifications – If you use pipe with a wall thickness any lower than 3.6 mm your bollards will be too vulnerable to damage.

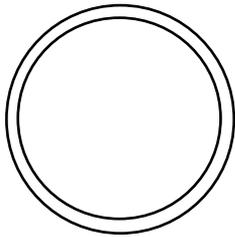


SAFETY FIRST

Increasing resistance

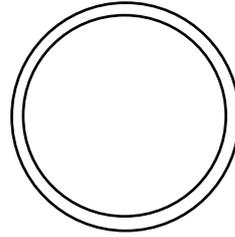
The resistance core is what stops a vehicle from any further forward movement following impact. You can increase the strength of the resistance core from heavy Duty to Extra Heavy Duty

The resistance core can be altered at any time to provide greater resistance against bending. (Keeping in mind it will also provide a rigid object that will increase impact force acting upon a vehicle and therefore increase the risk of damage to vehicles. Using the Advanced Polymer bollards or bollard covers helps to reduce the risk



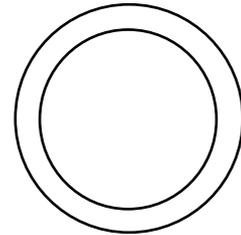
MEDIUM 300

300 mm Length is used with Surface Mount footing. Standard Resistance Core is strong enough to stop a passenger vehicle at low speed



MEDIUM 650/950

Used with 350 mm and 650 mm depth footing (300 Above ground) the Standard Resistance Core is strong enough to stop a passenger vehicle at low speed



XTRA HEAVY DUTY 950

Extra Heavy Duty Resistance Core provides 150% more resistance against bending, and can only be used with 650 mm Depth footings of 30MPa + concrete

HEAVY DUTY RESISTANCE CORE:

A standard Heavy Duty Galvanised Resistance Core is sufficient to prevent further forward movement of a passenger vehicle and reduce the risk of injury to drivers and vehicles. Suitable for all installations (Surface Mount/ 350 mm and 650 mm depth footings.)

EXTRA HEAVY DUTY RESISTANCE CORE:

If you find the resistance core is bending too frequently (often due to trucks of utility vehicles impacting them) you can increase the strength an Extra Heavy Duty Resistance Core. **This will increase the resistance by 150%** reducing the incidence of having to replace the inner core, but this strength internal resistance Core can only be used with 650 mm depth solid 30MPa concrete footings and will severely damage a passenger vehicle at high speed.