ZEROWASTE
BOLLARDS

The ultimate carpark bollard

City of Perth had a problem maintaing bollards in the busy city centre. They came to us to develop a solution that would provide protection for café strips and pedestrians, reduce damage to vehicles and reduce the esculating cost of maintaining their bollards. We developed the Impact Recovery System that provides a low cost and sustainable solution to all of these problems. Combined with ZerOPoly covers

City of Fremantle | City of Perth | mainroads WESTERN AUSTRALIA

4 Levels of extreme protection impact after impact

1. You can surface mount your bollards using our ZERO WASTE reusable base plate or secure inground using our ZERO WASTE Unbreakable ground sockets. Both options continue working impact after impact

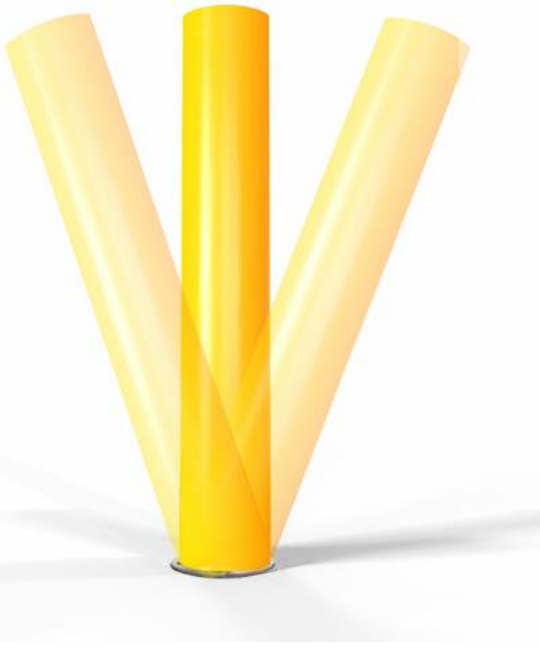
2. Unlike spring loaded bollards that over-flex, a heavy-duty resistance core prevents deflection of the bollard beyond 20 degrees when impacted by a vehicle, and with excellent memory properties it self-recovers returning the bollard to upright position following hundreds and hundreds of impacts

3. Unlike springs that quickly wear out, creating dangerous litigation risks, our re-usable energy absorbing ZerO Rings create a permanent shock absorbing cushion that absorb the impact force and self-recover, with no reduction in capacity following hundreds of impacts, greatly improving safety and resilience

4. Our heavy-duty galvanised steel and impact resistant stainless-steel pipe bollards provide an impact resistant surface, but we highly recommend using our advanced polymer bollards to substantially reduce maintenance on your bollards

We get knocked down, but we get up again. You're never going to keep us down!

Unlike spring-loaded bollards, ZERO WASTE Bollards cannot be deflected by hand, remaining perfectly aligned safe and secure year after year. When impacted by a vehicle they deflect to a max of 20 degrees and self-recover. When severely impacted (truck or utility vehicle) replacements take less than 5 minutes and the bollard, expensive concrete footings and ZerO Rings are reusable impact after impact, saving thousands over the life of a development.



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 around 5 mins Bollards and ZerO Rings are re-usable impact after impact

Reusable foundations

Unlike anything you've seen before- ZERO WASTE Unbreakable ground sockets last the entire lifespan of a development (impact after impact) and bollards are made reusable even following severe impacts. Bollards are easily removable and replaceable (using tools provided) in less than 5 mins for events, maintenance and future upgrades., greatly improving safety and efficiency, durability and reliability, saving thousands over the life of a development and keeping your development in good working condition day after day, year after year- **ZERO DAMAGE, ZERO WASTE**

Safety Polymer bollards

Advanced Polymer Bollards absorb impact from vehicles and self-recover without scratching or chipping like steel bollards. They won't rust or corrode or dent like a steel bollard and tyre marks can be simply wiped off with a damp cloth

Steel bollards

Heavy walled Steel Bollards can be secured inground, or surface mounted using the Impact Recovery System. Standard colour Safety Yellow – but can be supplied in any colour and polished designer caps available.

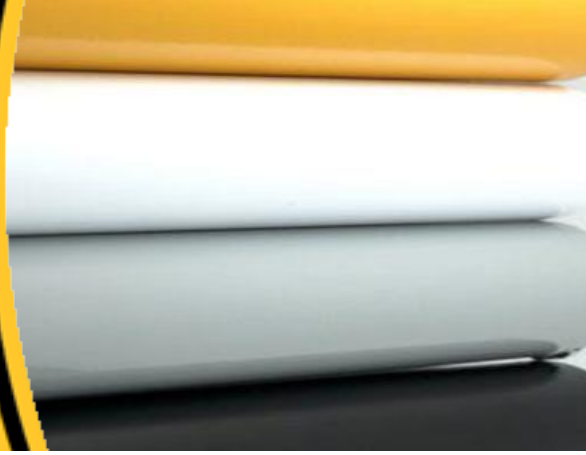
Secured using the ZerO Rings they become far more durable and resistant to impact. These bollards, used to protect café on a busy corner, were wiped out by a truck only weeks before and reinstated in less than five minutes.

Surface Mount or removable

Bollards are simple to replace when badly impacted the inner core is replaced and bollard and footing (even Zero Impact recovery rings) are reusable impact after impact. Inground bollards can be removed, and ground socket capped off (no trip factors)!

Range of options

- Galvanised steel (Std unit powder coated Safety Yellow, but can be powder coated colour of choice)
- Galvanised steel Striped to MRWA Standards
- Durable Poly bollards (Std unit Safety Yellow, but available in almost any colour- ask for a colour chart) and can be polished for high shine and striped.



STEEL BOLLARD

150/ 165 mm ⌀ galvanised steel x 1250H quality powder coated safety yellow

MRWA FIXED BOLLARD

150/ 165 mm ⌀ galvanised steel x 1250H (1625 L) quality powder coated safety yellow and striped

SAFER ALTERNATIVE

Advanced Polymer bollard 150 mm ⌀ x 1200 -1800L Safety Yellow Impact resistant / can be striped

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, protecting expensive footings from damage for the life of a development – Impact after impact.

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

Saving thousands over the life of a development
and the savings are not all financial

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