



# SMARTURBAN

Smart Impact Recovery System



ZERO DAMAGE, ZERO DISTURBANCE, ZERO ON-GOING COSTS

Introducing the world's first means of protecting valuable concrete footings from damage impact after impact, year after year. Join the market leaders from Downer to BGC, CPB, Georgio, Fulton Hogan and all major cities in WA laying the foundations for a better future.

A visit to any one of these cities will not fail to impress.

Georgiou



synergy



## MAKE BOLLARDS & FOUNDATIONS RE-USABLE IMPACT AFTER IMPACT

Flexible bollards are almost useless as they provide no resistance and quickly wear out. We have developed a simple means of making steel bollards rigid and you can alter the resistance to impact, to suit your requirements

Bollards remain rigid and cannot be deflected by hand, but when impacted by a vehicle two Smart Impact Recovery Rings act like shock absorbers, absorbing the impact force, making the bollard deflect and self-recover, making bollards and the surrounding foundations re-usable impact after impact.

Unlike spring mechanisms that can over-deflect or spring back creating dangerous litigation risks, Smart Impact Recovery Rings enable the bollard to safely and slowly self-recover

Unlike flexible plastic bollards and spring mechanisms that over time wear out becoming "floppy, Smart Impact Recovery Rings ensure your bollards remain secure and rigid and continue working year after year. Simply smarter than anything you've seen before



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Our selection is not based on price alone; we also took into consideration the safety & saving aspects.

The Smart Sustainable Foundations allow quick replacement of road-side items with no further effort required to the base, reducing time spent on traffic islands exposed to traffic and the risk of injury to employees

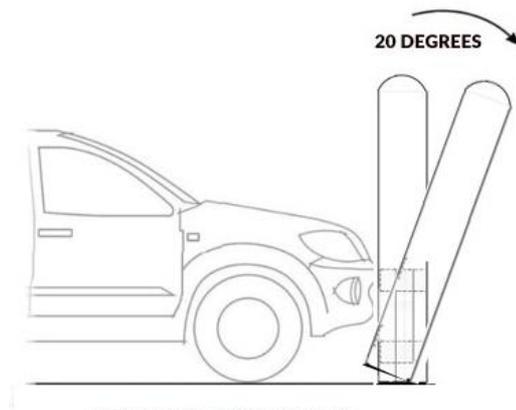
**MAIN ROADS WA**

# HOW IT WORKS

**1** When impacted by a vehicle the Impact Recovery Rings absorb the impact force allowing the bollard to deflect up to 20 degrees and slowly (safely) recover.

**2** If severely impacted, the bollard and Impact Recovery Rings are re-usable. The internal core will bend and is easily replaced using ergonomic removal tools.

You can improve the resistance of the internal core to prevent core from bending, bringing a passenger vehicle to a stop (in-ground)



You can secure your own Steel 150/165 mm Bollards, 150 mm Poly Bollards (almost any colour) or 168 mm Stainless steel Bollards or buy from us - ask for Bollards catalogue



# INCREASE RESISTANCE

You can increase the strength of the internal core to a Solid steel core which will bring a passenger vehicle to a stop much like a solid concrete filled bollard. Great for café strips and industrial locations

# INCREASE FLEXIBILITY

A more flexible ring is available for bike paths that deflects upon low impact (such as bike rider and slowly self- recovers

# CHOSING BOLLARD DESIGN

We supply

1. Poly Bollards in Safety Yellow (range of other colours available- min order 6 bollards)
2. Galvanised Steel Bollards in Safety Yellow
3. Plain galvanised steel bollards with designer caps available- (min order 6 bollards)

We also have bollard covers in stainless steel and rust finish that can be made to suit your project.



## UNIT INCLUDES

- 1 x Smart Sustainable Foundation
- 2 x Impact Recovery Rings
- 1 x Internal Core (3.6 or 60 mm)

Tools Required

RINGS	Details	Weight
IRR-150	Ring to fit 150 Poly Bollard	1 kg
IRR-165	Ring to fit 165 mm steel Bollard	1 kg
IRR-150-SF	Super-flex Ring 150 mm Poly Bollard	1 kg

CORE	Details	Weight
ICORE-350	350 Depth Steel Core 3.6 mm	2 kg
ICORE-650	650 Depth Steel Core 3.6 mm	3 kg
ICORE-350	650 Depth Solid Steel Core 60 mm	20 kg

# ZEROCIVIL

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