

Futureproof your bollards

Now you can “futureproof” your urban streetscapes by reducing both damage to bollards and the associated costs- permanently.

Make your steel bollards deflect upon impact from vehicles and preserve foundations indefinitely!



Sustainable Infrastructure Solutions

Now there's no excuse for road maintenance that costs the earth

Futureproof your bollards

Make bollards deflect upon impact



Now you can ensure there is never any damage to streetscapes when bollards are impacted. Hollow steel bollards can be made to deflect when impacted by a vehicle and return upright without damage to the foundations or surrounding brick-paving.

Replace bollards in 5 mins



Using the Impact Recovery System bollards can be replaced in less than 5 minutes- requiring no digging or heavy labour.

Bollards are simply popped in and out, with no disturbance to the general public or foundations.

Preserve streetscapes indefinitely



Extend the life of your streetscapes, as foundations will never be disturbed. When a bollard is impacted badly the post bends at the weakest point, just above the surface of the ground, without any damage to the brick paving or foundations.

No breakable components - No material costs for replacements



Instead of having to replace a damaged bollard with a new bollard, you simply remove the Impact Recovery Rings from the damaged bollard and use to re-install the bollard time and time again. All SIS components made from malleable plastic & rubber compounds that will withstand hundreds of impacts and keep working-year after year.

Reduce costs to a bare minimum- permanently

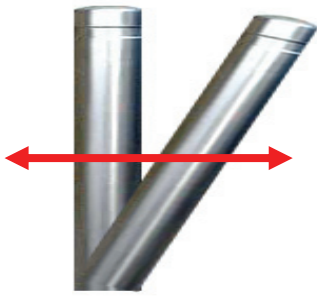
No material costs (as SIS components are sustainable), no digging or heavy labour, no disturbance to brick paving foundations or general public, for the next thirty years or more. Five minutes labour .



Impact Recovery System

No damage to foundations

The Impact Recovery System increases the life of bollards and preserves the foundations indefinitely. Hollow steel bollards can be secured on an Impact Recovery System preserving the surrounding brick-paving and concrete foundations indefinitely.



Bollards deflect upon impact

When the bollard is impacted at low speed the rubber rings compress allowing the bollard to deflect up to 25 degrees and return upright without any damage to foundations.

When a bollard is badly impacted the internal post bends at the base without damaging the foundations or SIS components which are used to re-install the bollard.



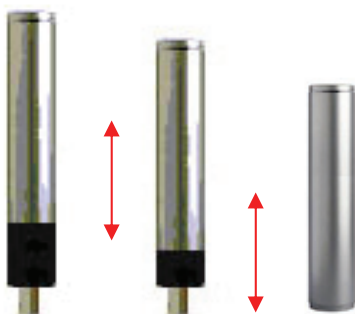
Installing a Bollard:

Two Impact Recovery Rings and one Auto Lock wedge are attached to a steel post (as shown left) and it is simply dropped into the ground socket- automatically locking in place. Once installed all that is above the surface is 300 mm of post with the two rubber rings attached- the bollard is simply slipped over the Impact Recovery Rings and secured using a stud (as shown below).

Removing a damaged bollard:

If the bollard is badly impacted the internal steel post will bend at the surface of the brick-paving without damaging the foundations or ground socket.

The stud is removed and the bollard slipped off. The damaged post can simply be popped out using the Auto Lock & Release removal tool shown below.



All components Re-usable

Sockets will never need replacing and Impact Recovery Rings & Wedges can be re-used time and time again.

The Impact Recovery Rings and wedges are taken off the damaged post and used to re-install the bollard on a new post.

This process can be repeated hundreds of times as all SIS components are sustainable and will withstand hundreds of impacts.

A SUSTAINABLE INFRASTRUCTURE SOLUTION:

No springs or breakable components-
A Low Cost Permanent Solution-
Substantially reducing maintenance on your bollards.



Impact Recovery Unit includes

- ❖ 2 x Re-usable Impact Recovery Rings per bollard
- ❖ 1 x Auto Lock & Release unit

All SIS components are re-usable. You will need to purchase a steel post on which to secure the Impact Recovery System. Refer to Specifications for details.

Size of Ring

The Outside diameter of the Impact Recovery Rings match the internal diameter of the bollard you wish to secure. Below are the most common dimensions although rings can be produced to meet your specifications. NB: Rings are slightly tapered to allow for 1-2 mm difference in pipe sizes.

Pipe OD	Wall mm	ID mm	IRR mm
219.1	4.8	202.7	203
165.1	5.0	155.1	155
139.7	3.5	132.7	133
114.3	3.6	107.1	107
101.6	3.2	95.2	95

To determine the ID of your bollards, simply deduct the wall thickness from the outside diameter of the pipe. NB: Please confirm the internal dimension of your pipe bollard with supplier.

Further information available upon request

- Specifications and Specification Drawings
- Installation Instructions & Directions for Use

Call our office to have copies e-mailed to you or visit web site to download.

PRESERVE FOUNDATIONS INDEFINITELY
ZERO WASTE
ZERO LANDFILL
FOR GENERATIONS TO ENJOY



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