



ZERO CIVIL

TECHNOLOGY THAT TRANSFORMS

IMPACT RESISTANT

Made from impact absorbing advanced polymer compound, that provides a safe, soft surface and self recovers from light impact



FOOTINGS CAN BE MADE REUSABLE

When secured on Impact Recovery System the concrete footings can be protected from damage for the entire lifespan of a development!



UV RESISTANT

Made with unique blend of Supa UV our Advanced Polymer Bollards offer 4.5 times the UV protection required by Australian Standard (AS/NZ 4766:2006)



BOLLARDS CAN BE MADE REUSABLE

When secured on Impact Recovery System bollards self-recover from low-speed impact and are removable and reusable following severe impact

Photo Dept Transport Safety Yellow Advanced Polymer XHD Impact Recovery Bollards

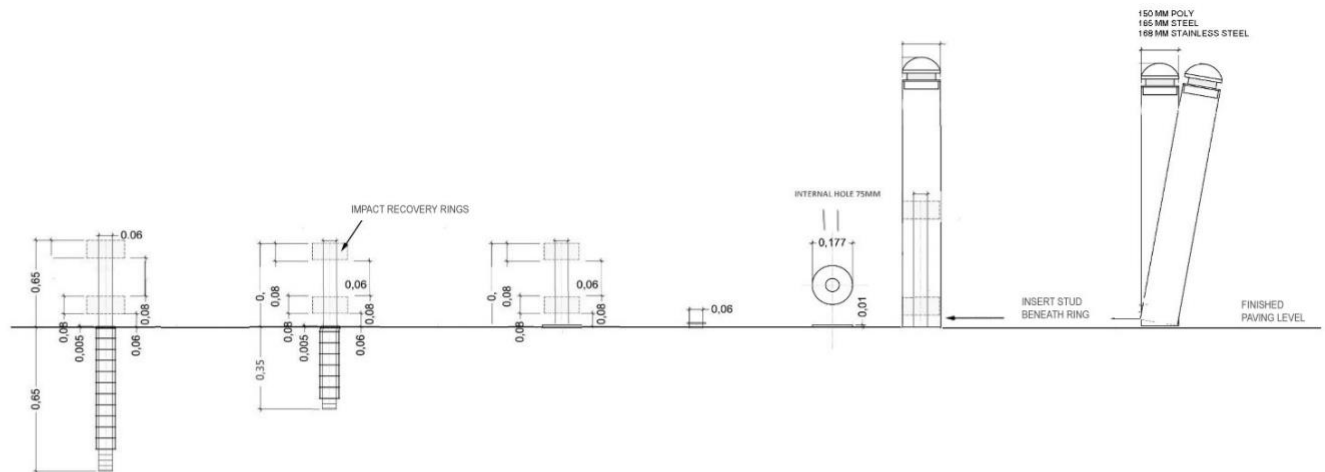
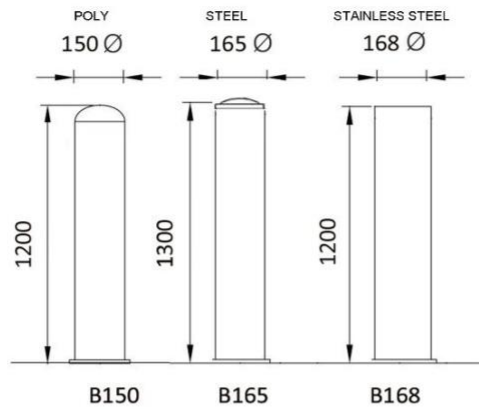
We offer non-conductive bollards in different structural formats depending on the application.

Because the Impact Recovery System absorbs the impact force, the depth of foundations can be substantially reduced, saving time and money and reducing disturbance to underground services.

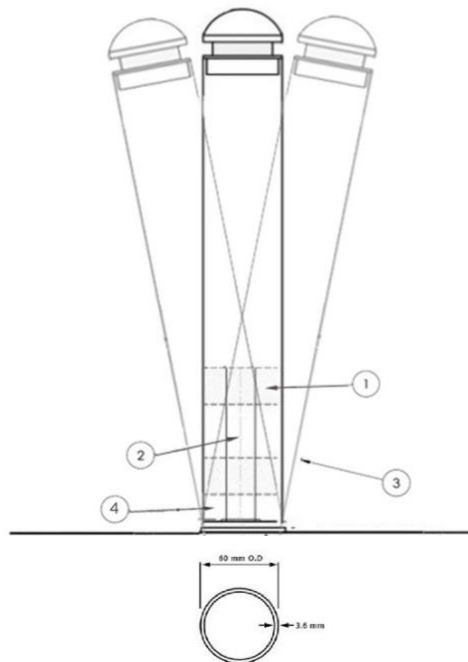
For this reason:

- Surface Mount foundations are adequate for most applications.
- 350 mm Depth for carparks and
- 650 mm for more industrial applications.

You can also increase the strength of the resistance core to Extra Heavy Duty (but will need a 650 mm depth footing)



650 MM DEPTH 350 MM DEPTH SURFACE MOUNT CAP PROTECTIVE BASE PLATE BOLLARD



COMPONENTS

1. IMPACT RECOVERY RINGS
2. INTERNAL CORE 300 MM HIGH 3.6 WALL THICKNESS
3. BOLLARD CASING - POLY/ STEEL OR STAINLESS
4. SECURING STUD (SECURITY STUD AVAILABLE)

Stud is inserted in hole at base of bollard and sits below the bottom Impact Recovery Ring

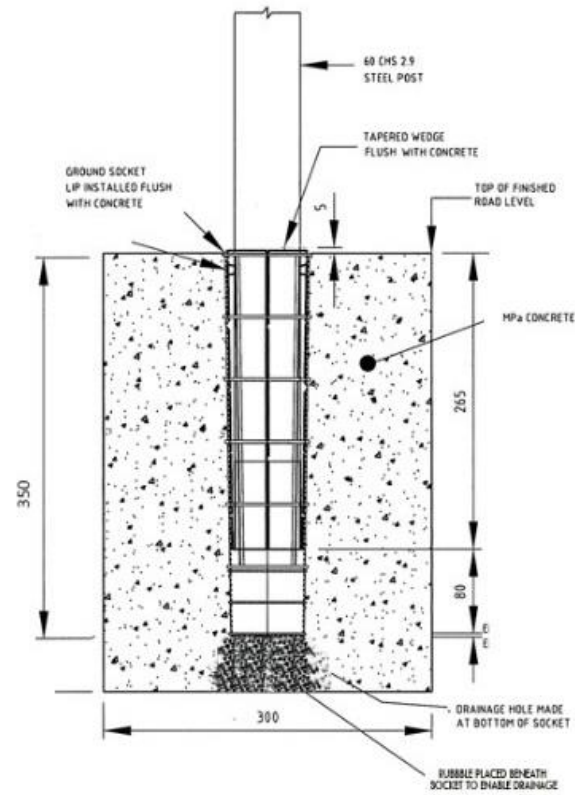
IMPACT RECOVERY BOLLARD

Bollard can be installed using

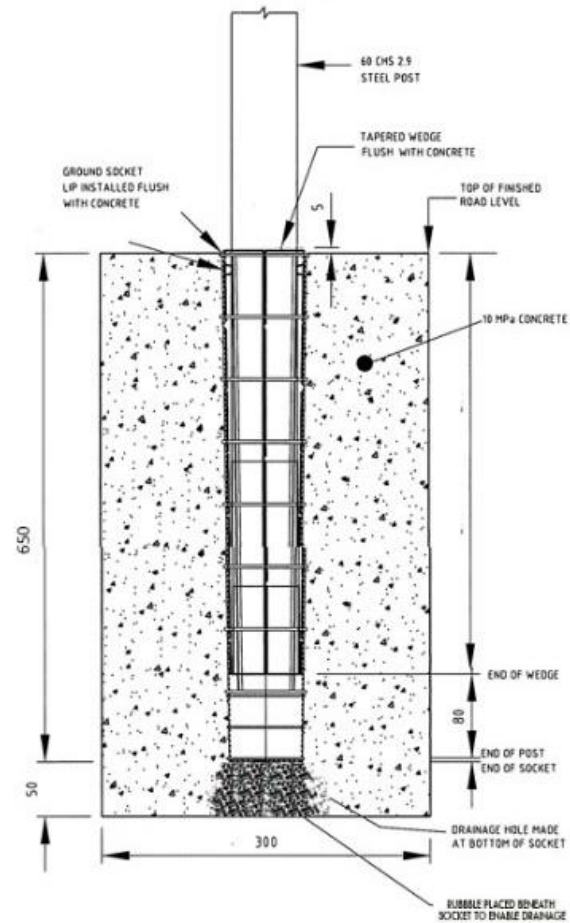
- Surface Mount
- 350 mm Footing
- 650 mm Footing
- XHD 650 mm footing

Best option to be determined based upon existing foundations and expected impact speed.

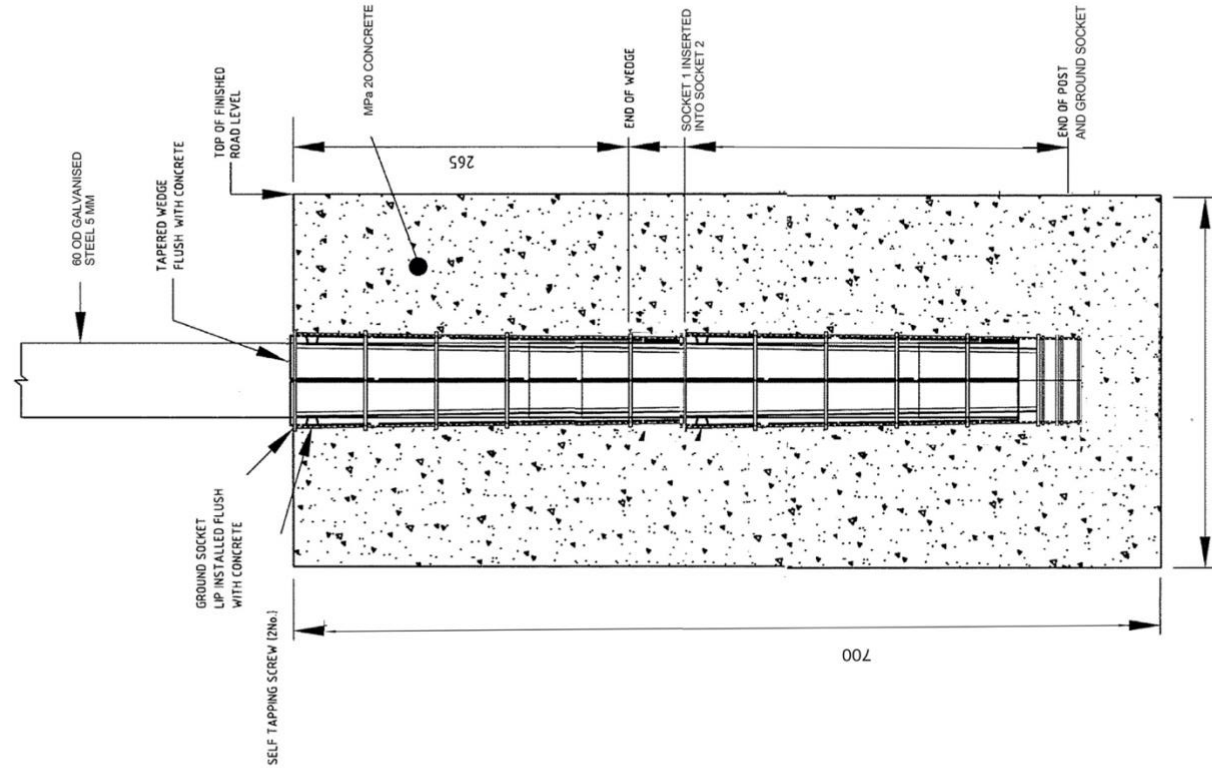
ZERO WASTE IN-GROUND FOUNDATIONS



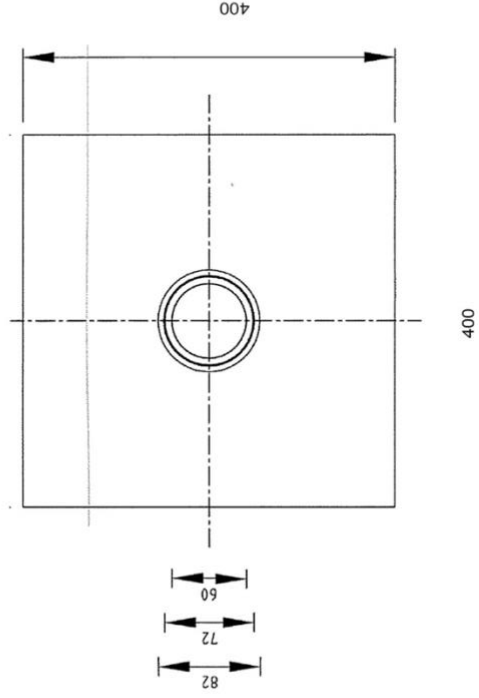
350 MM DEPTH



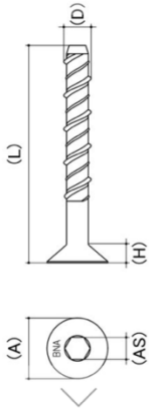
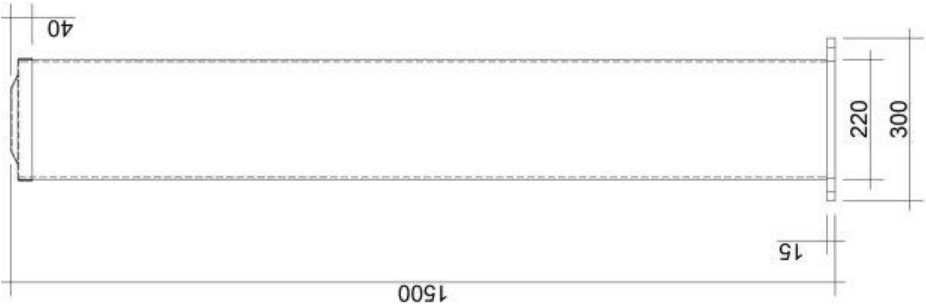
650 MM DEPTH



SECTIONAL ELEVATION
FOOTING



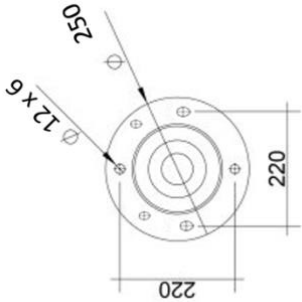
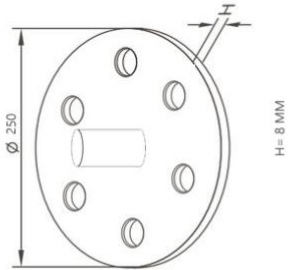
SURFACE MOUNT IMPACT RECOVERY SYSTEM



6 x Countersunk Screw Anchors

- A: 27.65mm
- L: 150 mm
- D: M12: 12 mm
- H: 10.20 - 10.40mm
- AS: 10 mm

Surface Mount APB 150mm Ø



REPLACEMENT RESISTANCE CORE



SURFACE MOUNT



350 MM INGROUND



650 MM INGROUND



XHD 650 MM INGROUND

WEIGHTS AND DIMENSIONS

CODE	DETAILS	WEIGHT
APB-1200	Advanced Polymer Bollard 1200 L	3kg
APB-1500	Advanced Polymer Bollard 1500 L	4 kg
IRR-150	Ring to fit 150 Poly Bollard	1 kg
SMBP	Surface Mount Base Plate	8 kg
ICORE-SM	HD 60 OD CHS Post x 300 mm	1 kg
ICORE-350	HD 60 OD CHS Post x 650 mm	2 kg
ICORE-650	HD 60 OD CHS Post x 950 mm	3 kg
XHD ICORE-650	XHD 60 OD CHS Post x 950 mm	6 kg