



mainroads
WESTERN AUSTRALIA

Removable Bollards

MRWA REMOVABLE BOLLARDS FOR FOOTPATHS AND HIGHWAYS

FOOTPATH BOLLARDS

Removable Bollards for Footpaths are 90 mm Square x 800 mm High. They are powder coated yellow with MRWA Striping

These bollards are for pedestrian protection and allowing access to footpaths for maintenance.

When not in use, the bollards can be manually retracted into the ground, leaving the area flat to allow pedestrian and vehicle access.

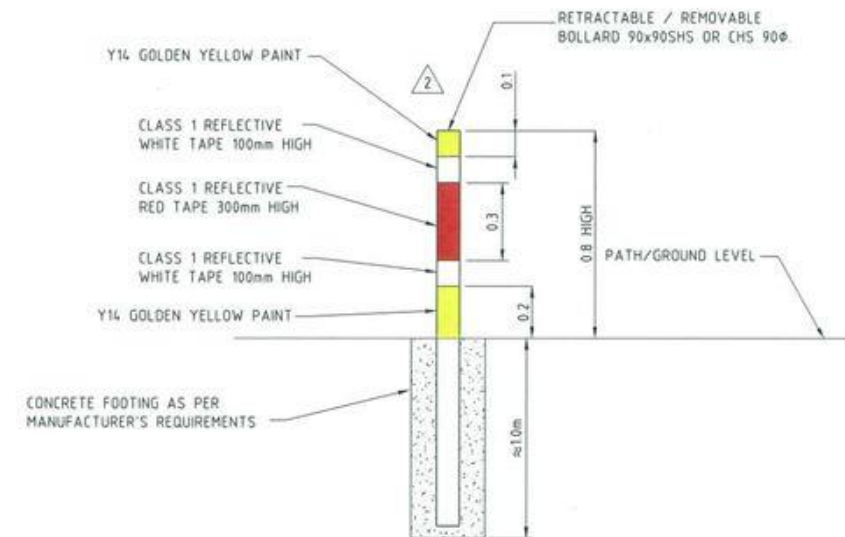
Locks are keyed alike. Bollards can be easily manually lifted or lowered into position using the lifting handle tool.

INSTALLATION

Concrete footings must be a min of 1m deep x 400 mm diameter

They can be installed by core drilling into an existing surface, or they can be installed in new concrete footings.

NB: Not suitable for roadside bollards or use on highways- see over for traffic bollards.



RETRACTABLE / REMOVABLE BOLLARD-SECTION DETAILS
(REFER TO NOTE 10)

NOT TO SCALE

ROADSIDE / HIGHWAY BOLLARDS

Main Roads Removable Traffic Bollard 60 mm x 800 mm H are for use adjacent to roads where access is prohibited for general traffic but allowed for certain traffic, such as heavy vehicle or emergency vehicle U-turn facilities and therefore must be frangible

SELF-LOCKING

Easy to use – sockets can be installed by simply positioning upright when pouring footings (or retrofitted). Bollards are self-locking. They are simply dropped into the ground socket and automatically lock in using friction (only removable using tools provided), remaining perfectly aligned, safe and secure year after year.

EASILY REPLACEABLE AFTER SEVERE IMPACT

If bollards need removing to enable access or for wide loads, for maintenance or future upgrades, they are simply levered out of the ground socket using the removal tool, from a standing position, facing traffic.



**WE GET KNOCKED DOWN BUT WE GET UP AGAIN -
YOU'RE NEVER GOING TO KEEP US DOWN**

REMOVABLE BOLLARD FOR FOOTPATHS

- 90 mm diameter x 5 mm wall retractable post
- T-handle key
- Powder coated retractable post with galvanised in-ground casing.

MRWA maintenance staff have tools required

INSTALLATION

1000 mm depth concrete footing

Not suitable for situations where bollard may be subject to vehicle impact.



REMOVABLE BOLLARD FOR ROADS AND HIGHWAYS

- Steel Powder coated Bollard
- 60 O.D X 900 H
- Re-usable Taper (attached to Bollard)
- Ground Socket 350 mm Depth
- Cap

Installation Tool required to install Bollards. MRWA maintenance staff have removal tools required. Easily removable following impact

INSTALLATION

350 mm depth concrete footing. Socket can be installed by simply positioning upright when pouring concrete or asphalt creating a clean finish that remains in good condition for decades.



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zero waste technology