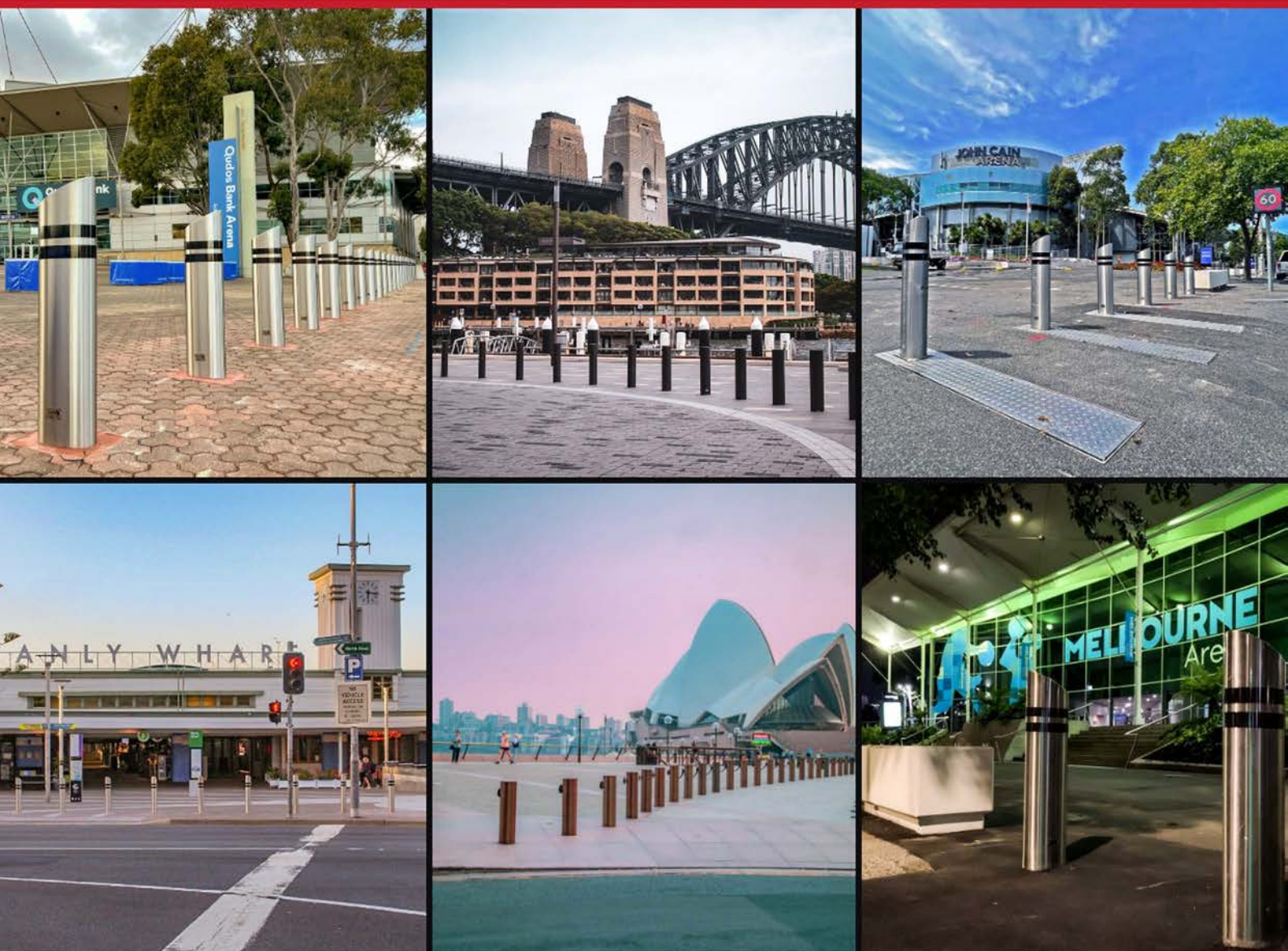




HOSTILE VEHICLE MITIGATION

SHALLOW MOUNT BOLLARD RANGE

Six PAS 68 & IWA 14-1 rated, fixed/removable bollard systems — each requiring just 200mm of foundation depth.

PAS68:2010

IWA14-1:2013

200mm FOOTING

FIXED / REMOVABLE

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04	Truckstopper 17	IWA14-1 · 64kph · 1.7m
05	Truckstopper 9-40	IWA14-1 · 64kph · 2.4m
06	Truckstopper 9-50	IWA14-1 · 80kph · N3C

All six systems share a 200mm shallow foundation, dramatically reducing the need to re-divert buried utilities on site, and can be removed from their slipper box for access or replacement without disturbing the concrete footing.

CARSTOPPER 30 (PAS68:2010) V/1500 (M1)/48/90/1.76/0.00

LOW COST SHALLOW MOUNT SINGLE FIXED/REMOVABLE BOLLARD



Carstopper 30 is a shallow mount single removable bollard. This patent pending design is a technology break-through in shallow mount single removal bollards and can be fitted as a single or in long runs. It is the only 200 deep single removable car park bollard in the market to date. It is an ideal solution to protect retail shops, banks, sports stadiums, ATMs and all accidental impacts as well as being an ideal anti-ram bollard solution.

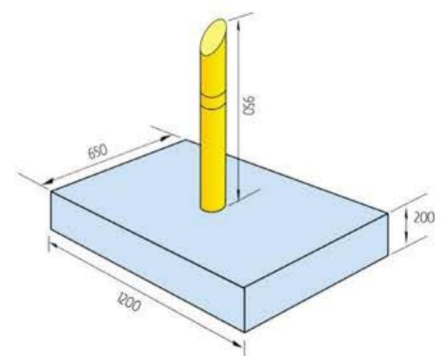
It is performance tested for Anti-Terrorist protection so provides assured high performance Hostile Vehicle Mitigation. On low impacts the spring bollard will not need replacing as it will return to its original position, undamaged. The shallow foundation will reduce the need to re-divert utilities. The system is small and easy to install keeping installation cost low. Once fitted and covered with a stainless steel shroud it is aesthetically pleasing and will need no maintenance, for anecdotal access to the area or maintenance the bollard can be removed easily.

PRODUCT SPECIFICATION

- ▶ Height above ground: 950mm
- ▶ Footing Depth: only 200mm
- ▶ Options: Stainless steel & mild steel shroud available

APPLICATION

- ▶ Airports
- ▶ Sports Arenas
- ▶ Retail Parks
- ▶ Police Stations
- ▶ Critical Infrastructure
- ▶ Government Buildings
- ▶ Conference Centres



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LOW COST SHALLOW MOUNT SINGLE FIXED/REMOVABLE BOLLARD



The new technology TRUCKSTOPPER 6-30 has a small super light weight base plate - 46kg only. This patent pending design is a technology break through in a removable single shallow footing bollard systems of 200mm deep, that will mitigate a 7.5 ton truck at 48 km at 90 degrees from breaking through the security line. If access is needed the bollard can be removed in minutes.

The 200mm deep single shallow bollard will also reduce the need to re divert utilities. The system is the most economical on the market and very aesthetically pleasing. This bollard is small and easy to install. This system is designed to follow the contours of the ground and can go around corners. If the post gets damaged after an attack they can be removed from the slipper box and replaced with no need to remove or replace the concrete foundation.

Once fitted the only maintenance is to repaint when needed or the bollard can be covered with a mild or stainless steel shroud.

APPLICATION

- ▶ Airport
- ▶ Sports Arenas
- ▶ Retail Parks
- ▶ Police Stations
- ▶ Critical Infrastructure
- ▶ Government Buildings
- ▶ Concurrence Centers

*"New Technology
breakthrough - foundation
only 200mm deep"*

TRUCKSTOPPER 6-30

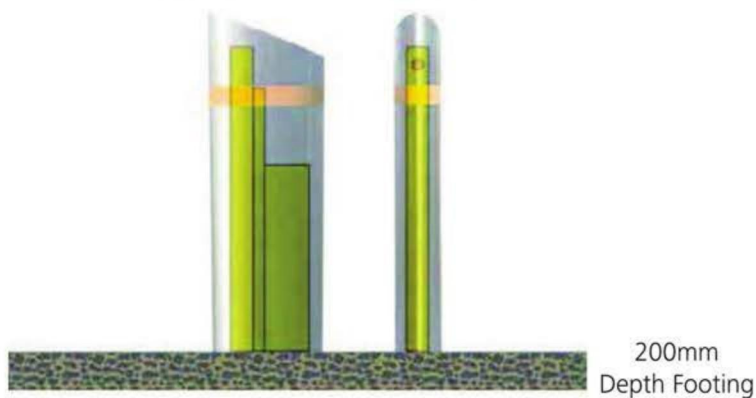
(BSI PAS68:2010) V/7500 (N2)/48/90:2.8/0.00
(BSI IWA 14-1:2013) V/7200 (N2A)/48/90:3.0

LOW COST SHALLOW MOUNT SINGLE FIXED/REMOVABLE BOLLARD



Spring Bollard Cover
Side View

Spring Bollard Cover
Front view



Foundation only 200mm deep x 900mm wide x 1200mm long.
Tested and passed as a single removable bollard.

SPECIFICATION

- ▶ **Height above ground:**
900mm
- ▶ **Footing Depth:**
Only 200mm
- ▶ **Options:**
Stainless steel & mild steel
shroud available

*Safetyflex also offer a selection
of shrouds and street furniture.
Details available on request.*

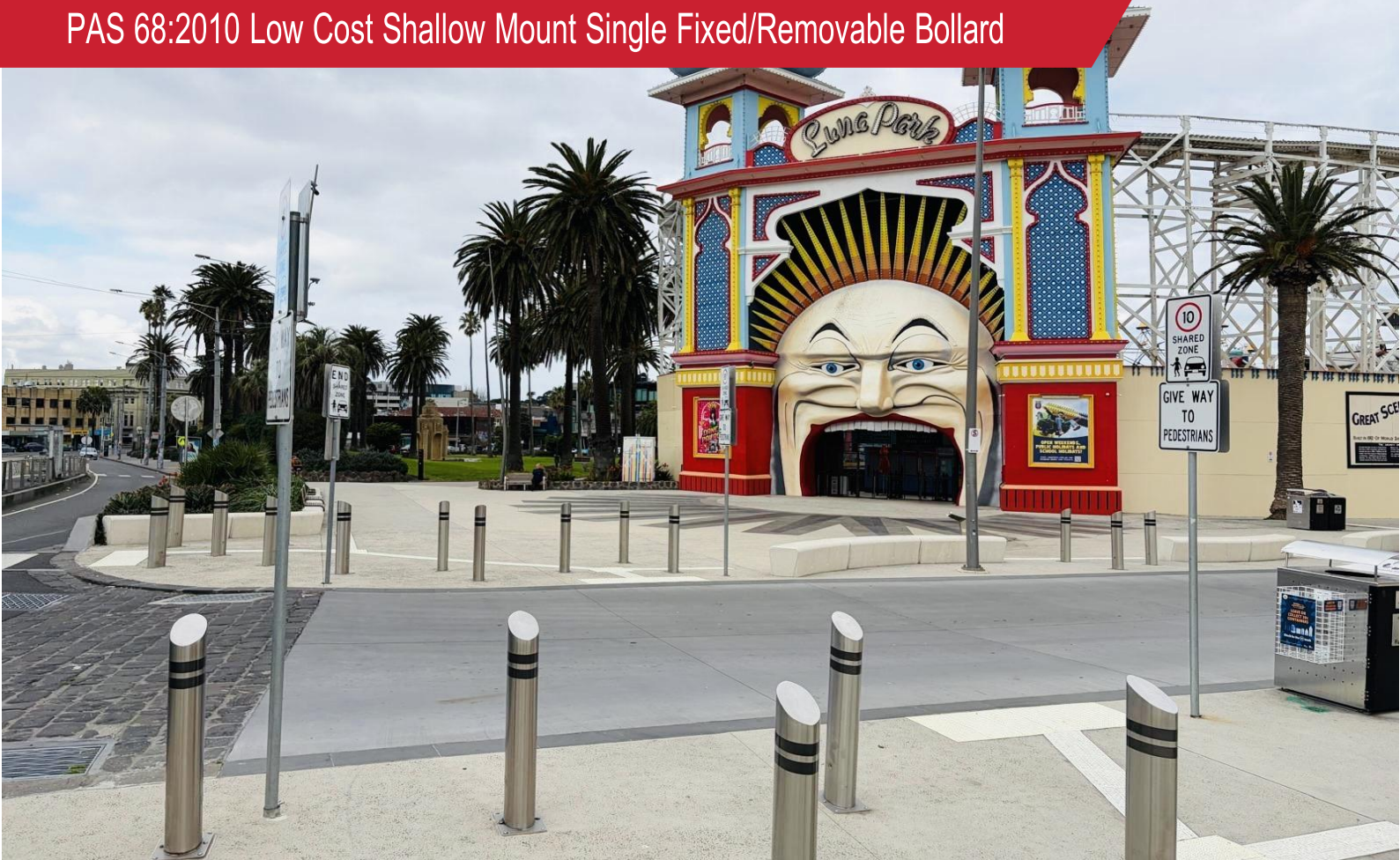


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The unique, patented technology TRUCKSTOPPER 7-40 has a small and super lightweight base plate and post assembly (heaviest item in assembly only 46kg). This breakthrough design in a removable single bollard system with shallow footing only 200mm deep stops a 7.5 tonne truck at 40 mph or 64kph at 90 degrees from breaking through security line. If access is needed the bollard can be removed in minutes.

The 200mm footing depth greatly minimises the need to re-divert utilities. The system is the most economical on the market and very aesthetically pleasing as well as small and easy to install. This system is designed to follow changing contours of ground level as well as continuing around corners. If the posts are damaged after an attack they can be removed from the slipper box without removing or replacing the concrete foundation.

The system has also been crash rated for impact at 45° by a 7.2 tonne truck at 40 mph or 64kph, conceding minimal penetration (3.3 metres) as a triple assembly.

APPLICATION

- ▶ Airports
- ▶ Sports Arenas
- ▶ Retail Parks
- ▶ Police Stations
- ▶ Critical Infrastructure
- ▶ Government Buildings
- ▶ Conference Centres

*"New Technology
breakthrough - foundation
only 200mm deep"*

TRUCKSTOPPER 7-40

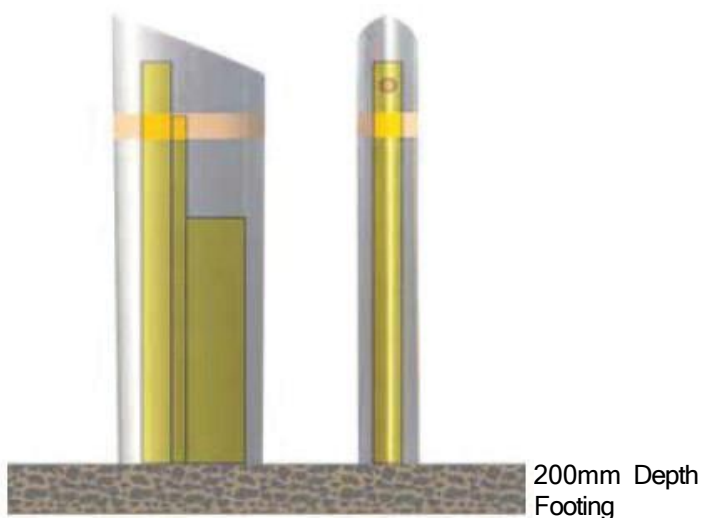
(PAS68:2010) V/7500 (N2)/64/90:7.1/14.8
(IWA 14:2013) V/7200 (N2A)/64/45:3.3

PAS 68 Low Cost Shallow Mount Single Fixed/Removable Bollard



Spring bollard cover
side view

Spring bollard front
side view



Foundation only 200mm deep x 900mm wide x 1200mm long
Tested and passed as a single removable bollard

SPECIFICATION

- ▶ Height above ground:
900mm
- ▶ Footing Depth:
Only 200mm
- ▶ Options:
Stainless steel & mild steel
shroud available

*Safetyflex also offer a selection
of shrouds and street furniture.
Details available on request.*



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TRUCKSTOPPER 17

(IWA14-1:2013) V/7200[N2A]/64/90:1.7

IWA 14-1 LOW COST SHALLOW MOUNT SINGLE FIXED/REMOVABLE BOLLARD



TRUCKSTOPPER 17 is the new addition to Safetyflex's 40mph/64kph shallow mount range with a new and improved penetration distance of just 1.7 metres. With just 200mm of foundation depth required, Truckstopper 17 is one of the shallowest single rated, low penetration distance bollards on the market today.

The shallow foundation reduces the need to re-divert utilities, making for a more cost-effective installation and reducing time on site. This patent protected design is the latest technological breakthrough from Safetyflex with a small foundation footprint which utilises our patented military-grade spring steel which has the ability to stop a 7.2 tonne truck travelling at 40mph/64kph with no damage to the internal bollard allowing for it to be reused.

The versatile Truckstopper 17 is available as a static or removable option and can be integrated with bespoke street furniture designs; including planters, benches and litterbins for a more discreet HVM solution.

APPLICATION

- ▶ Airports
- ▶ Sports Arenas
- ▶ Retail Parks
- ▶ Police Stations
- ▶ Critical Infrastructure
- ▶ Government Buildings
- ▶ Conference Centres

*"New Technology
breakthrough - foundation
only 200mm deep"*

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TRUCKSTOPPER 17

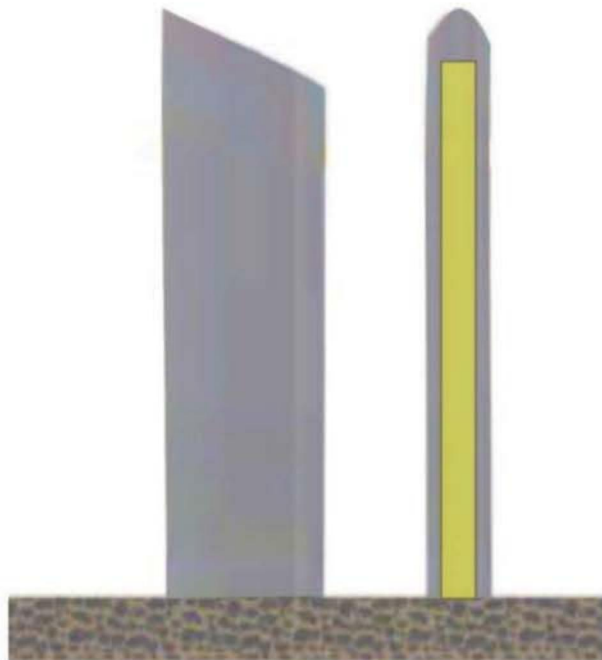
(IWA14-1:2013) V/7200(N2A1/64/90:1.7

IWA 14-1 LOW COST SHALLOW MOUNT SINGLE FIXED/REMOVABLE BOLLARD



Spring Bollard Cover
Side View

Spring Bollard Cover
Front view



200mm
Depth Footing

Foundation only 200mm deep x 1400mm wide x 1600mm long
Tested and passed as a single removable bollard

SPECIFICATION

- ▶ **Height above ground:**
950mm
- ▶ **Footing Depth:**
Only 200mm
- ▶ **Options:**
Stainless steel & mild steel
shroud available

*Safetyflex also offer a selection
of shrouds and street furniture.
Details available on request.*



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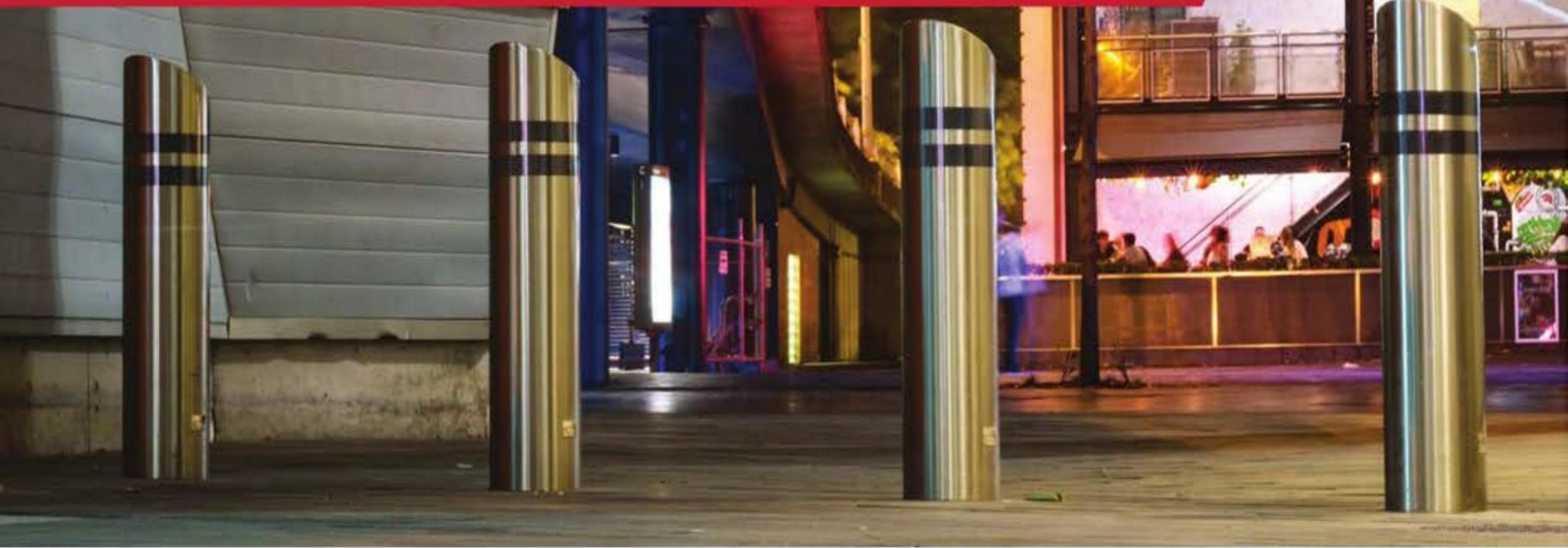
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TRUCKSTOPPER 9-40

(BSI IWA 14-1:2013) V/7200 [N2A]/64/90:2.4

SUPER SHALLOW FOUNDATION ONLY 200MM DEEP



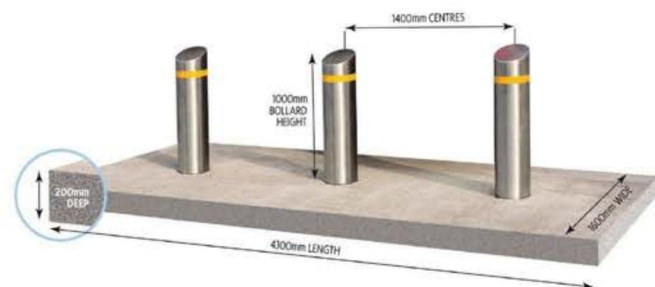
AT LAST A NEW DESIGN THAT DOES ALL THIS...

- ▶ Shallow foundation only 200mm deep - Reducing the need to re-divert utilities
- ▶ Bollard overall height out of the ground is only 950mm
- ▶ This bollard can be fixed or removable
- ▶ Comes in break down kits allowing for ease of transport and installation - keeping costs down
- ▶ Very aesthetically pleasing

This new Anti Terrorist Bollard, has been designed with the added advantage that the slipper box or (post socket box) can be moved separately and is not rigid. The box can be swivelled around a corner of 90 degrees or more if needed and can adapt to an up and down sloping surface without having to change the box design.

APPLICATION

- ▶ Airport
- ▶ Sports Arenas
- ▶ Retail Parks
- ▶ Police Stations
- ▶ Critical Infrastructure
- ▶ Government Buildings
- ▶ Concurrence Centers



TRUCKSTOPPER 9-50 VEHICLE PERFORMANCE CLASSIFICATION

VEHICLE TEST WEIGHT	VEHICLE CLASS	VEHICLE SPEED	VEHICLE ANGLE	VEHICLE PENETRATION
V/7200KG	N2A	64	90	2.4

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TRUCKSTOPPER 9-50

(IWA 14-1:2013) V/7200EN3C1/80/90:10.5

SUPER SHALLOW FOUNDATION ONLY 200MM DEEP



AT LAST A NEW DESIGN THAT DOES ALL THIS...

- ▶ Shallow foundation only 200mm deep - Reducing the need to re-divert utilities
- ▶ Bollard overall height out of the ground is only 950mm
- ▶ This bollard can be fixed or removable
- ▶ Comes in break down kits allowing for ease of transport and installation - keeping costs down
- ▶ Very aesthetically pleasing

This new Anti Terrorist Bollard, has been designed with the added advantage that the slipper box (or post socket box) can be moved separately and is not rigid. The box can be swivelled around a corner of 90 degrees or more if needed and can adapt to an up and down sloping surface without having to change the box design.

FOUNDATION
200MM DEEP

ONLY
950MM HIGH

REMOVABLE
BOLLARD

APPLICATION

- ▶ Airports
- ▶ Sports Arenas
- ▶ Retail Parks
- ▶ Police Stations
- ▶ Critical Infrastructure
- ▶ Government Buildings
- ▶ Conference Centres



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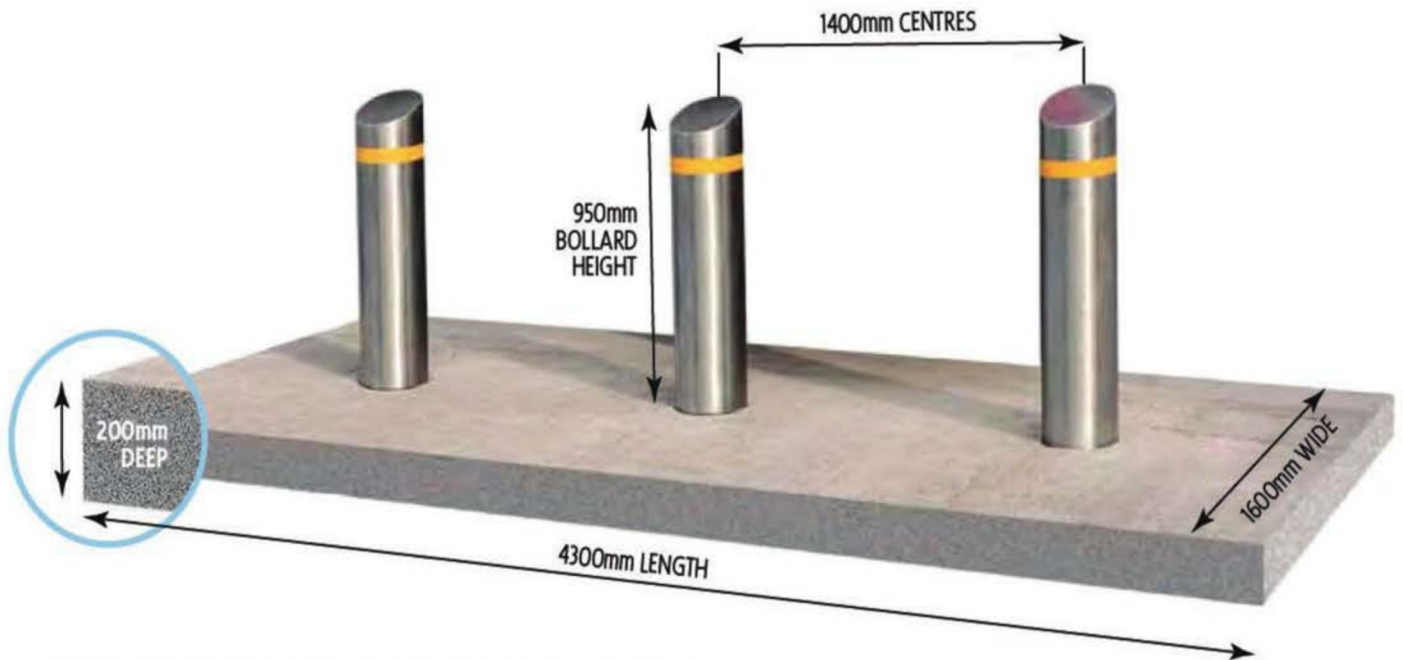
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TRUCKSTOPPER 9-50

(BSI IWA 14-1:2013) V/7200(N3C)/80/90:10.5

SUPER SHALLOW FOUNDATION ONLY 200MM DEEP



FOUNDATION SIZE FOR THREE BOLLARD RUN

International Patents applied for



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QUICK REFERENCE

CRASH RATING COMPARISON

MODEL	STANDARD	VEHICLE	SPEED	ANGLE	PENETRATION
Carstopper 30	PAS68:2010	1.5t	48kph	90°	1.76m
TS 6-30	PAS68:2010	7.5t	48kph	90°	2.8m
TS 7-40	PAS68:2010	7.5t	64kph	90°	7.1m
TS 7-40	IWA14:2013	7.2t	64kph	45°	3.3m*
TS 17	IWA14-1:2013	7.2t	64kph	90°	1.7m
TS 9-40	IWA14-1:2013	7.2t	64kph	90°	2.4m
TS 9-50	IWA14-1:2013	7.2t	80kph	90°	10.5m

All models: 200mm foundation depth, fixed/removable post. *TS 7-40 45° figure tested as a triple-bollard assembly. TS 9-50 is rated N3C — a heavier vehicle class at higher speed (80kph) than the rest of the range.



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