

# POLITE ENTERPRISES CORPORATION

*Bollard Range Technical Information*

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POLITE ENTERPRISES CORPORATION

*...innovative carpark safety & traffic management solutions*

## INFORMATION SHEET

# POLITE ENTERPRISES CORPORATION

## Automatic Bollard Range



### Product Description

#### Speed and durability

The rising or lowering time is about 3-4 seconds. All parts are protected against corrosion by aluminium oxide and powder coated. A rubber seal is fitted between the retractable bollard and the frame. All steel parts are protected against corrosion by aluminium oxide and powder coated. The internal parts are made of stainless steel or iron.

#### Installation

Foreign body ingress into the bollard is limited by a circular brush fastened to the cast-iron ground plate. As this does not make the bollard watertight, when installing bollards on an unprotected site, the frame should be connected to a sewage system (in this case, install a backflow stop valve). The post is raised by pneumatic power sized to suit the post type.



### Key Features

**Automatic** Pneumatic control can control 1-3 bollards (optional)

#### Built to last

A highly rugged design for long life

#### Sturdy

Manufactured from corrosion-treated stainless steel (or iron optional)

**High impact strength** Height above ground: 600 mm

**Low maintenance** Yearly cleaning

#### Colours

With different colour highlight LED and glistening film (optional)

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# POLITE ENTERPRISES CORPORATION

## Automatic Bollard Range

SPECIFICATION	DBO-168P0	DBO-168P4-1	DBO-220P0	DBO-220P4-1
OPERATION UNIT	Pneumatic	Pneumatic	Pneumatic	Pneumatic
MATERIAL	Mild steel	304 stainless steel	Mild steel	304 stainless steel
SURFACE TREATMENT	Polishing	Polishing	Polishing	Polishing
WEIGHT KG	75	75	115	115
DIAMETER MM	168	168	220	220
POST LENGTH MM	600 or 900	600 or 900	600 or 900	600 or 900
UNDERGROUND LENGTH MM	900	900	900	900
OPERATION TIME	3-5 seconds (adjustable)	3-5 seconds (adjustable)	3-5 seconds (adjustable)	3-5 seconds (adjustable)
REFLECTIVE TAPE CM	5	5	5	5
WORKING NOISE	<60 db	<60 db	<60 db	<60 db
CONTROL LENGTH M	50	50	50	50
PIPELINE ACCESSORY M	10	10	10	10
WORKING VOLTAGE	AC240V	AC240V	AC240V	AC240V
WORKING CURRENT	<1.5A	<1.5A	<1.5A	<1.5A
WORKING TEMPERATURE	-5-70 <sup>0</sup> C	-5-70 <sup>0</sup> C	-5-70 <sup>0</sup> C	-5-70 <sup>0</sup> C
CONTROL BOX DBO-CP11	control 1 bollard 740x520x720 60 kg			
DBO-CP12	control 2 bollards 790x590x850 (mm) 75 kg			
DBO-CP13	control 3 bollards 790x590x850 (mm) 75 kg			
COLOUR OF REFLECTIVE TAPE	optional	optional	optional	optional
CONTROL LIGHT	optional	optional	optional	optional

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# POLITE ENTERPRISES CORPORATION

## Twist Lock Bollard Range

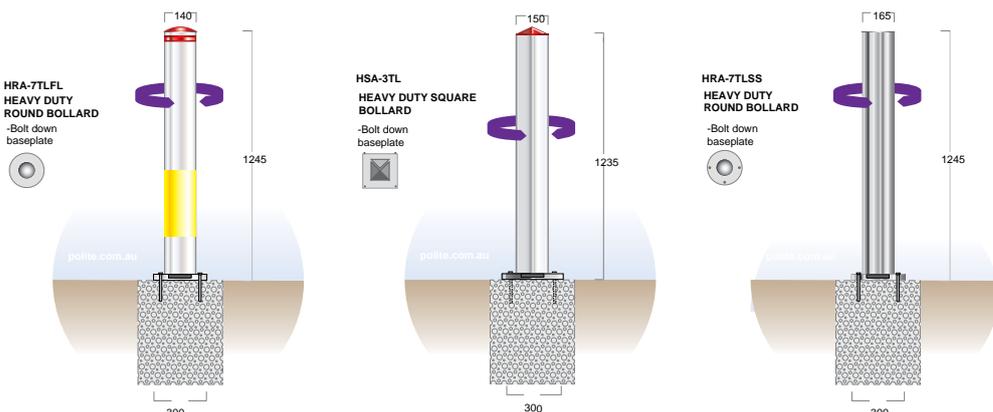


### Product Description

Polite Enterprises Twist Locking Removable Bollards are designed to offer selective entry of vehicles into specific areas helping with security measures only allowing access to certain key holders. Polite Twist Locking Removable Bollards can be installed on various surfaces.

Chain rings with connecting chain can be installed into the bollards if this is a requirement for your bollards. Polite bollards come with all bolts and fixings needed for installation.

For softer surfaces such as asphalt our in ground bollards may be more suitable for your application and come with a fully welded starter bar where concrete feet will be installed.



### Key Features

#### Durable

Manufactured from heavy duty, high strength, galvanised steel to prevent rust and corrosion

#### Visible

supplied with reflective striping to maximise delineation and night visibility

Multiple Colors Stocked in standard safety yellow or white, but can be coated to the color of your choice

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INFORMATION SHEET

# POLITE ENTERPRISES CORPORATION

## Twist Lock Bollard Range

PRODUCT	PRODUCT CODE	MATERIAL	DIAMETER	WALL MM	WEIGHT KG	BASEPLATE	SIZE OF	NO. OF FIXINGS	HEIGHT	FOOTING	FOOTING
HEAVY DUTY ROUND BOLLARD	HRA-7TL	Mild steel	165Φ	5	28	300	16	4	1,200 above ground	400	400
	HRA-7TLFL	Mild steel	140Φ	5	28	300	16	4	1,200 above ground	400	400
	HRA-7TLSS	Stainless steel	165Φ	3.4	28	300	16	4	1,200 above ground	400	400
HEAVY DUTY SQUARE BOLLARD	HSA-3TL	Mild steel	150 x 150	5	26	300 x 300	16	4	1,200 above ground	400	400
	HSA-3TLSS	Stainless steel	150 x 150	3	26	300 x 300	16	4	1,200 above ground	400	400
	SRA-3TLSS	Mild steel	165Φ	5	28	300	16	4	1,200 above ground	400	400
STANDARD ROUND BOLLARD	SRA-5TL	Mild steel	90Φ	5	10	200 DIA	12	4	1,000 above ground	300	300
	SRA-5TLSS	Stainless steel	90Φ	3	10	200 DIA	12	4	1,000 above ground	300	300
STANDARD SQUARE BOLLARD	SSA-1TL	Stainless steel	89 x 89	5	16	200 x 200	12	4	1,000 above ground	300	300
	SSA-1TLSS	Stainless steel	89 x 89	3	16	200 x 200	12	4	1,000 above ground	300	300

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# POLITE ENTERPRISES CORPORATION

## Top Locking Removable Bollard Range



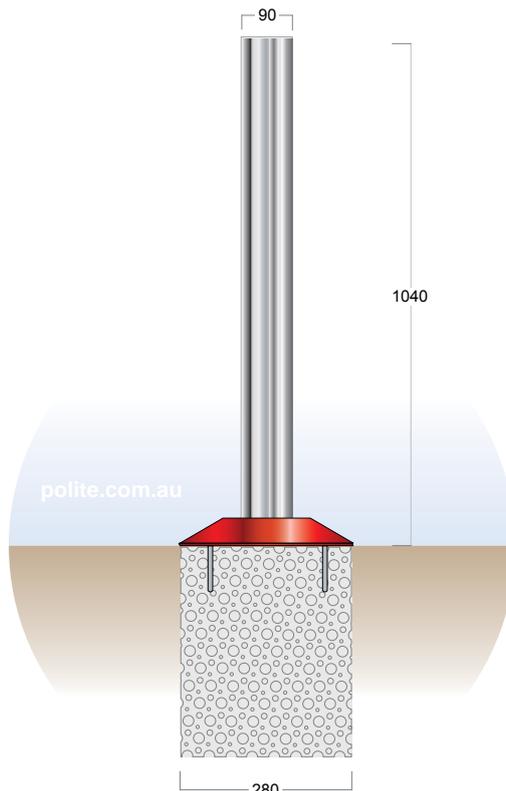
### Product Description

Polite Enterprises Top Locking Removable Bollards are designed to offer selective entry of vehicles into specific areas helping with security measures only allowing access to certain key holders. Polite Top Locking Bollards are designed to be able to be used in any location, and installed on various surfaces.

Polite Top Locking Bollards come with a top lock which uses an internal locking system that is not easily accessible without the use of power tools or the assigned key to the individual bollard. The base plated bollards are used and installed for use on suspended slabs. Option for in-ground Top Locking Bollards is also available through Polite. Chain rings with connecting chain can be installed into the bollards if this is a requirement for your bollards. Polite bollards come with all bolts and fixings needed for installation.

### TLB-2SS

TOP LOCKING BOLLARD  
Above ground removable



### Key Features

#### Economical solution

Provides a medium to high security key lockable bollard without all the frills.

#### Reflective band

For superior night-time visibility

#### Heavy duty, high strength steel

Using heavy, duty high strength steels make these bollards difficult to defeat.

#### Colours

Bollards available in standard colours of safety yellow or white, but can be custom coloured

#### Lifting handle

For ease of transporting

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## Top Locking Removable Bollard Range

PRODUCT	PRODUCT CODE	MATERIAL	DIAMETER	WALL	WEIGHT	BASEPLATE	SIZE OF FIXING MM	NO. OF FIXINGS	HEIGHT	FOOTING WIDTH MM	FOOTING DEPTH MM
TOP LOCKING BOLLARD	TLB-1	Mild steel	90Φ	5	12	-	-	-	970 above ground	300 x 300	500
	TLB-1SS	Stainless steel	90Φ	3.4	12	-	-	-	970 above ground	300 x 300	500
	TLB-2	Mild steel	90Φ	5	12	280 CAST	12	4	1,000 above ground	300 x 300	400
	TLB-2SS	Stainless steel	90Φ	3.4	12	280 CAST	12	4	1,000 above ground	300 x 300	400
	TLB-3	Mild steel	90Φ	5	12	-	-	-	915 above ground	300 x 300	1,200
	TLB-4	Mild steel	90Φ	5	10	200	12	4	970 above ground	-	-
	TLB-4SS	Mild steel	165Φ	5	28	200	16	4	1,200 above ground	400 x 400	400
FIXED BOLLARD	TLB-5	Mild steel	90Φ	5	10	-	-	-	1,000 above ground	300 x 300	500
	TLB-5SS	Stainless steel	90Φ	3.4	10	-	-	-	1,000 above ground	300 x 300	500

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# POLITE ENTERPRISES CORPORATION

## Standard Bollard Range



### Product Description

Polite Enterprises Standard Base Plate and In-ground Bollards are designed to be used in a variety of different applications including car parks and general factory settings.

Polite Bollards come in stainless steel or galvanized steel and can be powder coated in the standard safety yellow or white (additional colors available on request).

Chain rings with connecting chain can also be installed onto the bollards if this is a requirement of your individual application. Base plated bollards are best installed onto concrete surfaces, however, asphalt options are also available.

### Key Features

- Durability: Manufactured from heavy duty, high strength galvanised steel or stainless steel
- Visibility: Supplied with reflective striping to maximise delineation and night visibility
- Cost Effectiveness
- Aesthetically Pleasing: Bollards are capped with either a dome or pyramid shaped cap

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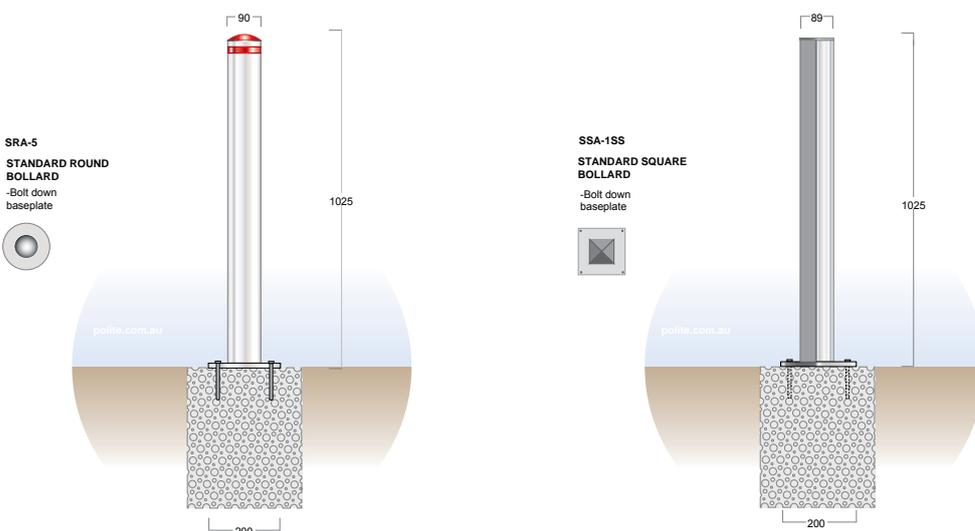
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## Standard Bollard Range

PRODUCT	PRODUCT CODE	MATERIAL	DIAMETER / SIZE MM	WALL MM	WEIGHT KG	BASE PLATE	SIZE OF FIXING	NO. OF FIXINGS	HEIGHT	FOOTING WIDTH	FOOTING DEPTH
STANDARD ROUND BOLLARD	SRA-5	Mild steel	90 Φ	5	10	200 DIA	12	4	1,025 above ground	300 x 300	300
	SRA-5SS	Stainless steel	90 Φ	3.4	10	200 DIA	12	4	1,000 above ground	300 x 300	300
	SRB-6	Mild steel	90Φ	5	10	-	-	-	1,000 above ground	300 x 300	500
	SRB-6SS	Stainless steel	90Φ	3.4	10	-	-	-	1,000 above ground	300 x 300	500
STANDARD SQUARE BOLLARD	SSA-1	Mild steel	89 x 89	5	16	200 x 200	12	4	1,000 above ground	300 x 300	300
	SSA-1SS	Stainless steel	89 x 89	3.4	16	200 x 200	12	4	1,000 above ground	300 x 300	300
	SSB-2	Mild steel	89 x 89	5	17	-	-	-	1,000 above ground	300 x 300	300
	SSB-2SS	Stainless steel	89 x 89	3.4	17	-	-	-	1,000 above ground	300 x 300	300

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# POLITE ENTERPRISES CORPORATION

## Removable Bollard Range



### Product Description

Polite Enterprises Corporation's Removable Bollards are designed to offer selective entry of vehicles into specific areas helping with security measures. Polite Removable Bollards are designed to be able to be used in any location and installed on any surface.

Polite Removable Base Plated Bollards are used and installed for use on a hard concrete surfaces. Options for in-ground Removable Bollards is also available through Polite.

Polite bollards come with all bolts and fixings needed for installation.

### Key Features

#### In-ground installation

All bollards are manufactured with 'tie in bars' to ensure maximum footing strength

#### Durable

Bollards are manufactured from heavy duty, high strength, galvanised steel to prevent rust and corrosion

#### Visible

Bollards supplied with reflective striping to maximise delineation and night visibility

#### Multiple colours

Bollards are stocked in standard colours of safety yellow or white, but can be coated to the colour of your choice

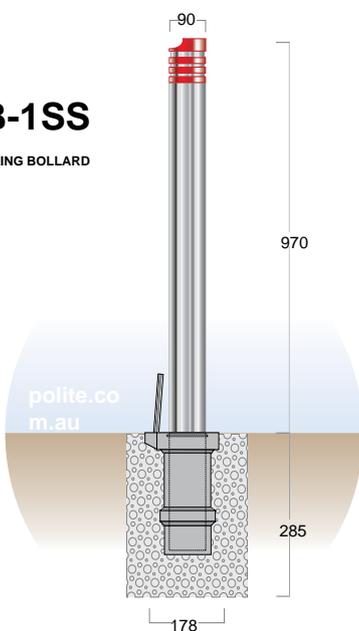
#### Cost effective

Our economy bollard range is an economical way to protect buildings, walls, equipment and roller doors

**Aesthetically pleasing** Bollards are capped with either an attractive pyramid shaped or dome shaped aluminium top

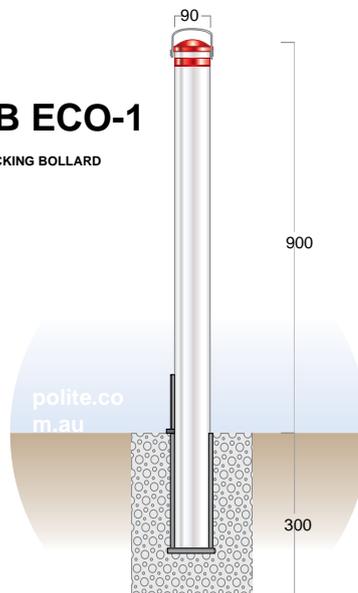
### TLB-1SS

TOP LOCKING BOLLARD



### TLB ECO-1

TOP LOCKING BOLLARD



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## Removable Bollard Range

PRODUCT	PRODUCT CODE	MATERIAL	DIAMETER / SIZE MM	WALL MM	WEIGHT KG	BASEPLATE	SIZE OF FIXING	NO. OF FIXINGS	HEIGHT	FOOTING WIDTH MM	FOOTING DEPTH MM
HEAVY DUTY REMOVABLE BOLLARD	HRRB-10-150	Mild steel	165 Φ	5	28	300	16	4	1,200 above ground	400 x 400	400
STANDARD ROUND REMOVABLE BOLLARD	SRRB-10	Mild steel	90 Φ	5	14	-	-	-	1,000 above ground	300 x 300	500
	SRRB-10-150SS	Mild steel	165 Φ	5	28	300	16	4	1,200 above ground	400 x 400	400
	SRRB-10SS	Stainless steel	90 Φ	3	14	-	-	-	1,000 above ground	300 x 300	500
STANDARD SQUARE REMOVABLE BOLLARD	SSRA-11	Mild steel	89 x 89	5	14	200 x 200	12	4	1,000 above ground	300 x 300	300
	SSRA-11SS	Stainless steel	89 x 89	3	14	200 x 200	12	4	1,000 above ground	300 x 300	300
	SSRB-9	Mild steel	89 x 89	5	20	-	-	-	1,000 above ground	300 x 300	500
	SSRB-9SS	Stainless steel	89 x 89	3	20	-	-	-	1,000 above ground	300 x 300	500
TOP LOCKING BOLLARD	TLB ECO-1	Mild steel	90 Φ	5	11	-	-	-	900 above ground	300 x 300	500
	TLB ECO-2	Mild steel	90 Φ	5	11	280	12	4	945 above ground	-	-
	TLB ECO-2SS	Stainless steel	90 Φ	3.4	11	280	12	4	945 above ground	-	-
	TLB-1	Mild steel	90 Φ	5	12	-	-	-	970 above ground	300 x 300	500
	TLB-1SS	Stainless steel	90 Φ	3.4	12	-	-	-	970 above ground	300 x 300	500
	TLB-2	Mild steel	90 Φ	5	12	280 CAST	12	4	1,000 above ground	300 x 300	400
	TLB-2SS	Stainless steel	90 Φ	3.4	12	280 CAST	12	4	1,000 above ground	300 x 300	400

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# POLITE ENTERPRISES CORPORATION

## In Ground Bollard Range



### Product Description

Polite Enterprises In Ground Bollards are designed to be used in a variety of different applications including car parks and general factory settings.

Polite Bollards come in stainless steel or galvanized steel and can be powder coated in the standard safety yellow or white (additional colors available on request).

Chain rings with connecting chain can also be installed onto the bollards if this is a requirement of your individual application. Base plated bollards are best installed onto concrete surfaces; in ground versions are available for other substrates. Polite bollards come in a square or round design and come with all bolts and fixings needed.

### Key Features

**In-ground installation**

All bollards are manufactured with 'tie in bars' to ensure maximum footing strength

**Durable**

Bollards are manufactured from heavy duty high strength galvanised steel to prevent rust and corrosion

**Visible**

Bollards supplied with reflective striping to maximise delineation and night visibility

**Multiple colours**

Bollards are stocked in standard colours of safety yellow or white, but can be coated to the colour of your choice

**Cost effective**

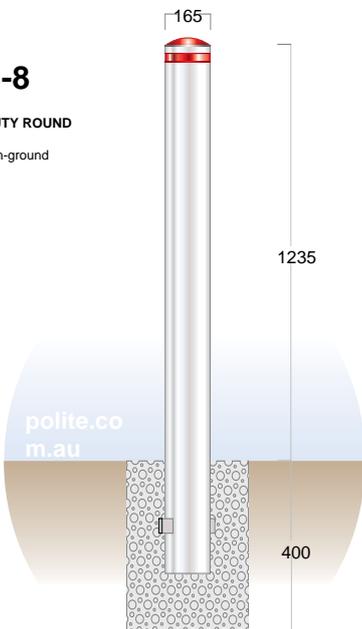
Our economy bollard range is an economical way to protect buildings, walls, equipment and roller doors

**Aesthetically pleasing**

Bollards are capped with either an attractive pyramid shaped or dome shaped aluminium top

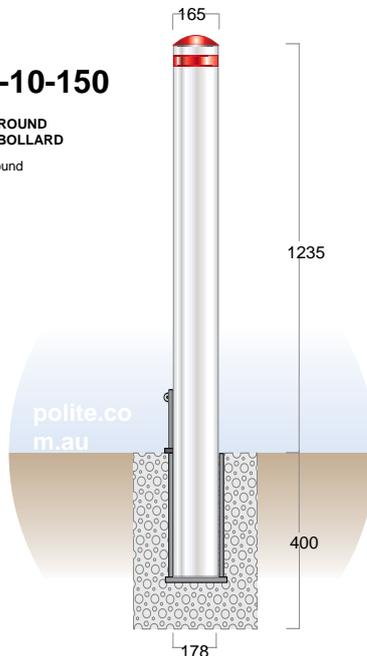
### HRB-8

HEAVY DUTY ROUND BOLLARD  
-Concrete in-ground



### HRRB-10-150

HEAVY DUTY ROUND REMOVABLE BOLLARD  
-Concrete in-ground



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## In Ground Bollard Range

PRODUCT	PRODUCT CODE	MATERIAL	DIAMETER	WALL MM	WEIGHT KG	BASE PLATE	SIZE OF FIXING	NO.OF FIXING	HEIGHT	FOOTING WIDTH MM	FOOTING DEPTH MM
HEAVY DUTY ROUND BOLLARD	HRB-8	Mild steel	165 Φ	5	32	-	-	-	1,200 above ground	400 x 400	600
	HRB-8SS	Stainless steel	165 Φ	3.4	32	-	-	-	1,200 above ground	400 x 400	600
HEAVY DUTY REMOVABLE BOLLARD	HRRB-8	Mild steel	165 Φ	5	32	-	-	-	1,200 above ground	400 x 400	400
HEAVY DUTY SQUARE BOLLARD	HSB-4	Mild steel	150 x 150	5	34	-	-	-	1,200 above ground	400 x 400	600
	HSB-4SS	Stainless steel	150 x 150	3	34	-	-	-	1,200 above ground	400 x 400	600
STANDARD ROUND BOLLARD	SRB-6	Mild steel	90 Φ	5	10	-	-	-	1,000 above ground	300 x 300	500
	SRB-6SS	Stainless steel	90 Φ	3	10	-	-	-	1,000 above ground	300 x 300	500
STANDARD ROUND REMOVABLE BOLLARD	SRRB-10	Mild steel	90 Φ	5	14	-	-	-	1,000 above ground	300 x 300	500
	SRRB-10-150FL	Mild steel	165 Φ	5	32	-	-	-	1,200 above ground	400 x 400	400
STANDARD ROUND REMOVABLE BOLLARD	SRRB-10-150SS	Mild steel	165 Φ	5	32	-	-	-	1,200 above ground	400 x 400	400
	SRRB-10FL	Mild steel	90 Φ	5	14	-	-	-	1,000 above ground	300 x 300	500
	SRRB-10SS	Stainless steel	90 Φ	3	14	-	-	-	1,000 above ground	300 x 300	500
STANDARD SQUARE BOLLARD	SSB-2	Mild steel	89 x 89	5	17	-	-	-	1,000 above ground	300 x 300	300
	SSB-2SS	Stainless steel	100 x 100	3	17	-	-	-	1,000 above ground	300 x 300	300
STANDARD SQUARE COLLAPSIBLE BOLLARD	SSCB-13	Mild steel	89 x 89	5	13	-	-	-	800 above ground	300 x 300	500
	SSCB-13SS	Stainless steel	100 x 100	3	13	-	-	-	800 above ground	300 x 300	500
TOP LOCKING BOLLARD	TLB ECO-1	Mild steel	90 Φ	5	11	-	-	-	900 above ground	300 x 300	500
	TLB ECO-1SS	Stainless steel	90 Φ	3	11	-	-	-	900 above ground	300 x 300	500
HEAVY DUTY ROUND BOLLARD	TLB ECO-5	Mild steel	90 Φ	5	10	-	-	-	1,000 above ground	300 x 300	500
	TLB ECO-5SS	Stainless steel	90 Φ	3.4	10	-	-	-	1,000 above ground	300 x 300	500
TOP LOCKING BOLLARD	TLB -1	Mild steel	90 Φ	5	12	-	-	-	970 above ground	300 x 300	500
	TLB-1 SS	Stainless steel	90 Φ	3.4	12	-	-	-	970 above ground	300 x 300	500
	TLB -3	Mild steel	90 Φ	5	12	-	-	-	915 above ground	300 x 300	1,200
	TLB-3 SS	Stainless steel	90 Φ	3.4	12	-	-	-	915 above ground	300 x 300	1,200
FIXED BOLLARD	TLB-5	Mild steel	90 Φ	5	10	-	-	-	1,000 above ground	300 x 300	500
	TLB-5 SS	Stainless steel	90 Φ	3.4	10	-	-	-	1,000 above ground	300 x 300	500

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# POLITE ENTERPRISES CORPORATION

## Heavy Duty Bollard Range



### Product Description

Heavy duty Base Plated Bollards are designed to be used in a variety of different applications within car parks and general settings where bollards are required to protect pedestrians or property.

Heavy duty bollards are manufactured in 165mm diameter or 150mm square versions (other sizes available on request) and are available in standard powder coated yellow or white. Stainless steel and hot dipped galvanized versions are also available.

Heavy Duty bollards are supplied with a domed chrome top for added aesthetics or are available in flat or standard dome lid versions

Base plated bollards are designed for fixing directly to concrete surfaces. In ground versions are available for other substrates.

### KEY FEATURES

#### Durable

Manufactured from heavy duty, high strength, galvanised steel to prevent rust and corrosion

#### Cost effective

Our economy bollard range is an economical way to protect buildings, walls, equipment and roller doors

#### Visible

Supplied with reflective striping to maximise delineation and night visibility

**Aesthetically pleasing** Bollards are capped with either an attractive pyramid shaped or dome shaped top

**Multiple colours** Stocked in standard safety yellow or white, but can be coated to the colour of your choice

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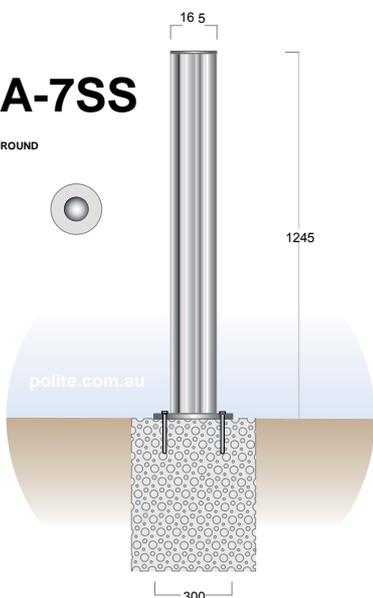
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### HRA-7SS

HEAVY DUTY ROUND BOLLARD

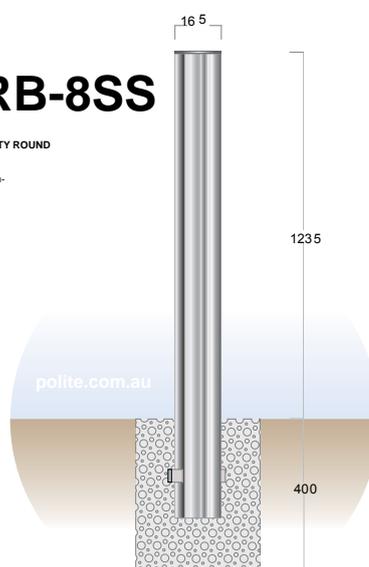
-Bolt down baseplate



### HRB-8SS

HEAVY DUTY ROUND BOLLARD

-Concrete in-ground



INFORMATION SHEET

# POLITE ENTERPRISES CORPORATION

## Heavy Duty Bollard Range

PRODUCT	PRODUCT CODE	MATERIAL	DIAMETER / SIZE MM	WALL	WEIGHT KG	BASEPLATE	SIZE OF FIXING MM	NO. OF FIXINGS	HEIGHT	FOOTING WIDTH MM	FOOTING DEPTH MM
HEAVY DUTY ROUND BOLLARD	HRA-7	Mild steel	165 Φ	5	28	300	16	4	1,200 above ground	400 x 400	400
	HRA-7SS	Stainless steel	165 Φ	3.4	28	300	16	4	1,200 above ground	400 x 400	400
	HRB-8	Mild steel	165 Φ	5	32	-	-	-	1,200 above ground	400 x 400	600
	HRB-8SS	Stainless steel	165 Φ	3.4	32	-	-	-	1,200 above ground	400 x 400	600
HEAVY DUTY SQUARE BOLLARD	HSA-3	Mild steel	150 x 150	5	26	300	16	4	1,200 above ground	400 x 400	400
	HSA-3SS	Stainless steel	150 x 150	3	26	300	16	4	1,200 above ground	400 x 400	400
	HSB-4	Mild steel	150 x 150	5	34	-	-	-	1,200 above ground	400 x 400	600
	HSB-4SS	Stainless steel	150 x 150	3	34	-	-	-	1,200 above ground	400 x 400	600

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# POLITE ENTERPRISES CORPORATION

## Flexible Bollard Range



### Product Description

Polite Flexi bollards are designed to flex in any direction when impacted to minimize damage to vehicles. Designed specifically to be able to be used where motor vehicles are maneuvering at low speeds such as car parking spaces etc. Being flexible, costly replacements are reduced as impact is less damaging to the bollard.

Polite Flexible Bollards look like ordinary steel to the untrained eye but are equipped with a unique polymer rubber insert allowing the bollard to flex up to a 45 degree angle.

Base plated bollards are designed for fixing directly to concrete surface. In ground versions are available for other substrates.

Flexible bollards are available in standard (90mm diameter) and Heavy duty (165mm diameter) models and are powder coated yellow. (custom colors available on request). Stainless steel 304 or 316 versions are also available.

### Key Features

#### Rebound ability

Made from long-life polyurethane material with exceptional vertical rebound resilience, tensile strength and impact resistance

#### Visibility

Bright fluorescent yellow colour with high intensity, reflective banding ensures high visibility day and night

#### Durability

Incorporating 'vertical memory' for the fast recovery of the bollard no matter how many times it is hit

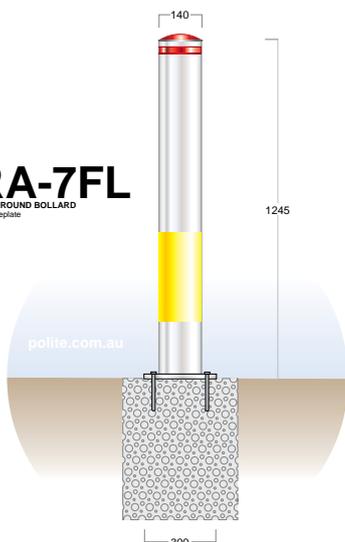
#### Versatility

Available in two sizes, 750 mm and 450 mm, addressing all likely requirements by simply bolting down to the existing road surface

#### HRA-7FL

HEAVY DUTY ROUND BOLLARD

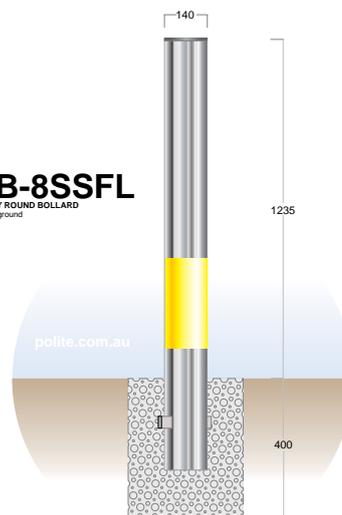
-Bolt down baseplate



#### HRB-8SSFL

HEAVY DUTY ROUND BOLLARD

-Concrete in-ground



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INFORMATION SHEET

# POLITE ENTERPRISES CORPORATION

## Flexible Bollard Range

PRODUCT	PRODUCT CODE	MATERIAL	DIAMETER	WALL	WEIGHT	BASEPLATE	SIZE OF FIXING MM	NO. OF FIXINGS	HEIGHT	FOOTING WIDTH MM	FOOTING DEPTH MM
HEAVY DUTY ROUND BOLLARD	HRA-7FL	Mild steel	140 Φ	5	28	300	16	4	1,200 above ground	400 x 400	400
	HRA-7TLSS	Stainless steel	165 Φ	3.4	28	300	16	4	1,200 above ground	400 x 400	400
	HRB-8FL	Mild steel	140 Φ	5	32	-	-	-	1,200 above ground	400 x 400	600
STANDARD ROUND BOLLARD	HRB-8SSFL	Stainless steel	140 Φ	3.4	32	-	-	-	1,200 above ground	400 x 400	600
	SRA-5FL	Mild steel	90 Φ	5	10	200	12	4	1,000 above ground	300 x 300	300
	SRA-5SS	Stainless steel	90 Φ	3	10	200	12	4	1,000 above ground	300 x 300	300
	SRA-5FLSS	Stainless steel	90 Φ	3	10	200	12	4	1,000 above ground	300 x 300	300
	SRB-6FL	Mild steel	90 Φ	5	10	-	-	-	1,000 above ground	300 x 300	500
	SRB-6FLSS	Stainless steel	90 Φ	3	10	-	-	-	1,000 above ground	300 x 300	500
	STANDARD ROUND REMOVABLE BOLLARD	SRRB-10-150FL	Mild steel	165 Φ	5	28	300	16	4	1,200 above ground	400 x 400
SRRB-10FL		Mild steel	90 Φ	5	14	-	-	-	1,000 above ground	300 x 300	500

Contact

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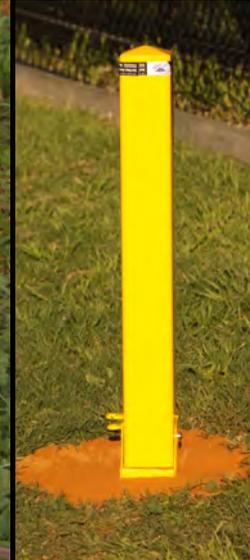
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# POLITE ENTERPRISES CORPORATION

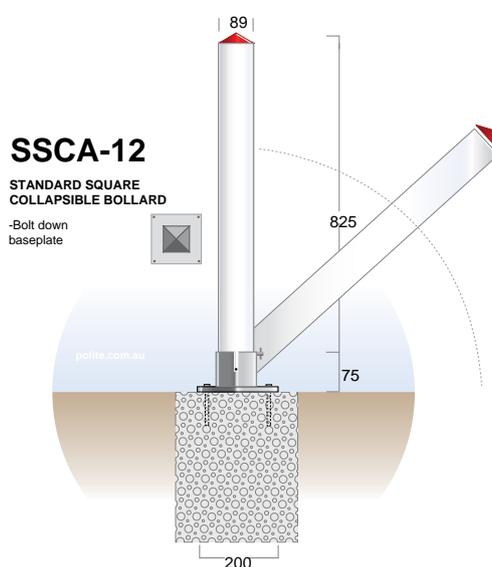
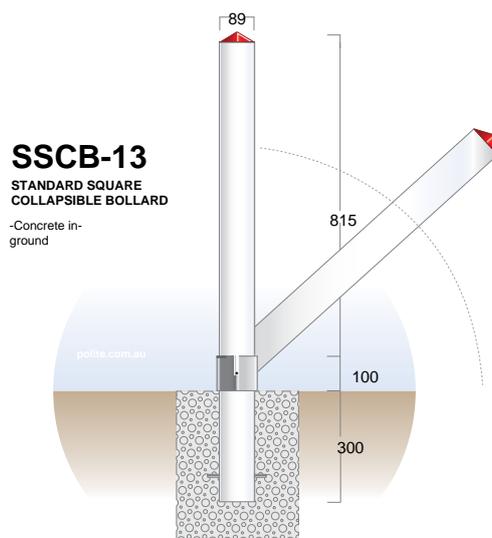
## Collapsible Bollard Range



### Product Description

Depending on your surface will depend on the right type of application for the bollard. Polite Bollards come in galvanized steel or they can be powder coated yellow or white (additional colors available).

Polite Collapsible bollards are designed for vehicle access control. With an easy lockable system these bollards can easily be folded down and returned back up when needed in a matter of seconds. Polite Bollards are made from a high quality heavy duty steel and come with necessary fixings.



### Key Features

#### Compact

35 mm when lowered, eliminating possible damage to the vehicle undercarriage

#### Maintenance free

Corrosive free; zinc plated and powder coated finish

#### Cost efficient

The most cost effective way to protect private or reserved parking bays

#### Easy to install

Simply bolt to the existing surface or in ground

#### Easy to use

Simply unlock and lay flat to gain or restrict access

#### Locks up and down

To prevent unauthorised use

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## INFORMATION SHEET

# POLITE ENTERPRISES CORPORATION

## *Collapsible Bollard Range*

PRODUCT	PRODUCT CODE	MATERIAL	SIZE MM	WALL MM	WEIGHT KG	BASEPLATE	SIZE OF FIXINGS	NO. OF FIXINGS	HEIGHT MM	FOOTING WIDTH MM	FOOTING DEPTH MM
STANDARD SQUARE COLLAPSIBLE BOLLARD	SSCA-12	Mild steel	89 x 89	5	14	200 x 200	12	4	800 Above Ground	300 x 300	300
	SSCB-13	Mild steel	89 x 89	5	13	In Ground Sleeve	-	-	800 Above Ground	300 x 300	500

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## INFORMATION SHEET

# POLITE ENTERPRISES

## Base Plate Bollard Range



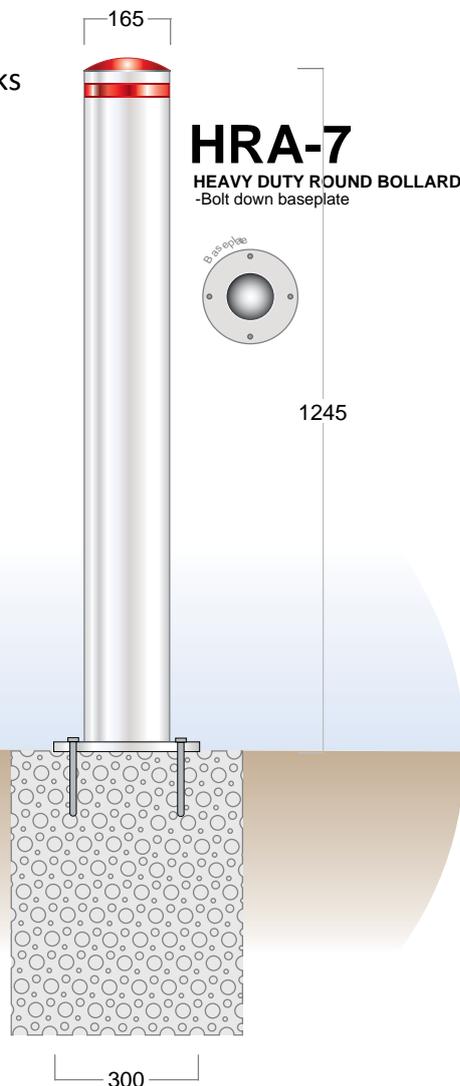
### Product Description

Polite Enterprises Base Plated Bollards are designed to be used in a variety of different applications including car parks and general factory settings.

Polite Bollards come in stainless steel or galvanised steel and can be powder coated in the standard safety yellow or white (additional colors available on request).

Chain rings with connecting chain can also be installed onto the bollards if this is a requirement of your individual application. Base plated bollards are best installed onto concrete surfaces.

Polite bollards come in a square or round design and come with all bolts and fixings needed.



### KEY FEATURES

#### Installation

All bollards are supplied with a 10 mm thick baseplate ready to fix to existing surfaces

#### Durable

Bollards are manufactured from heavy duty, high strength galvanised steel to prevent rust and corrosion

#### Visible

All bollards are supplied with reflective striping to maximise delineation and night-time visibility

#### Multiple colours

Bollards are stocked in standard colours of safety yellow or white, but can be coated to the colour of your choice

#### Cost effective

Our economy bollard range is an economical way to protect buildings, walls, equipment and roller doors

**Aesthetically pleasing** Bollards are capped with either an attractive pyramid shaped or dome shaped aluminium top

### Contact

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INFORMATION SHEET

# POLITE ENTERPRISES CORPORATION

## Base Plate Bollard Range

PRODUCT	PRODUCT CODE	MATERIAL	DIAMETER / SIZE MM	WALL MM	WEIGHT KG	BASEPLATE MM	SIZE OF FIXING MM	NO. OF FIXINGS	HEIGHT MM	FOOTING WIDTH MM	FOOTING DEPTH MM
HEAVY DUTY ROUND BOLLARD	HRA-7	Mild steel	165	5	28	300Φ	16	4	1,200 above ground	400 x 400	400
	HRA-7FL	Mild steel	140	5	32	300Φ	16	4	1,200 above ground	400 x 400	400
	HRA-7SS	Stainless steel	165	3.4	28	300Φ	16	4	1,200 above ground	400 x 400	400
HEAVY DUTY SQUARE BOLLARD	HSA-3	Mild steel	150 x 150	5	26	300 x 300	16	4	1,200 above ground	400 x 400	400
	HSA-3SS	Stainless steel	150 x 150	3	26	300 x 300	16	4	1,200 above ground	400 x 400	400
STANDARD ROUND BOLLARD	SRA-5	Mild steel	90	5	10	200Φ	12	4	1,200 above ground	300 x 300	300
HEAVY DUTY SQUARE BOLLARD	HSB-4SS	Stainless steel	150 x 150	3.4	34	-	-	-	1,200 above ground	400 x 400	600
STANDARD ROUND BOLLARD	SRA-5SS	Stainless steel	90	3.4	10	200Φ	12	4	1,000 above ground	300 x 300	300
STANDARD SQUARE BOLLARD	SSA-1	Mild steel	89 x 89	5	16	200 x 200	12	4	1,000 above ground	300 x 300	300
	SSA-1SS	Stainless steel	89 x 89	3	16	200 x 200	12	4	1,000 above ground	300 x 300	300
STANDARD SQUARE COLLAPSIBLE BOLLARD	SSCA-12	Mild steel	89 x 89	5	14	200 x 200	12	4	800 above ground	300 x 300	300
STANDARD SQUARE COLLAPSIBLE BOLLARD	SSCA-12SS	Stainless steel	89 x 89	3.4	14	200 x 200	12	4	800 above ground	300 x 300	300
STANDARD SQUARE REMOVABLE BOLLARD	SSRA-11	Mild steel	89 x 89	5	14	200 x 200	12	4	1,000 above ground	300 x 300	300
	SSRA-11SS	Stainless steel	100 x 100	3.4	14	200 x 200	12	4	1,000 above ground	300 x 300	300
TOP LOCKING BOLLARD	TLB ECO-2	Mild steel	90Φ	5	11	280	12	4	945 above ground	-	-
	TLB ECO-2SS	Stainless steel	90Φ	3.4	11	280	12	4	945 above ground	-	-
	TLB ECO-4	Mild steel	90Φ	5	10	200	12	4	930 above ground	-	-
	TLB ECO-4SS	Stainless steel	90Φ	3.4	10	200	12	4	930 above ground	-	-
	TLB-2	Mild steel	90Φ	5	12	280 CAST	12	4	1,000 above ground	300 x 300	400
	TLB-2SS	Stainless steel	90Φ	3.4	12	280 CAST	12	4	1,000 above ground	300 x 300	400
	TLB-4	Mild steel	90Φ	5	10	200	12	4	970 above ground	-	-
FIXED BOLLARD	TLB-4SS	Stainless steel	90Φ	5	10	200	12	4	970 above ground	-	-

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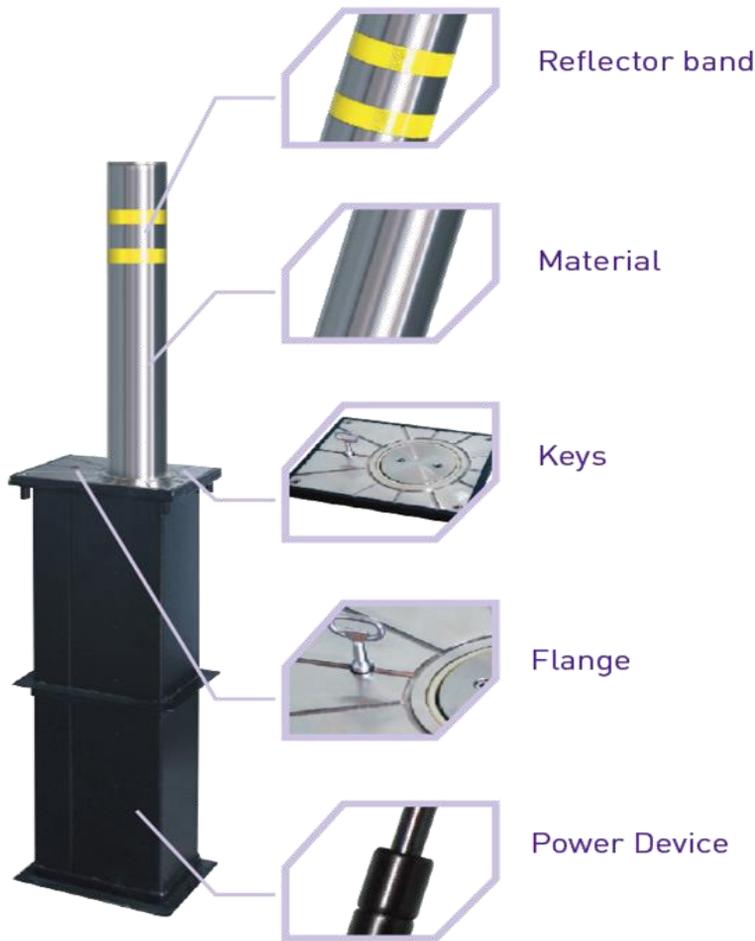


## Platinum Range Semi-Automatic Retractable Bollard

Semi-automatic bollards are a fantastic solution for high security areas with limited access control requirements. As safety requirements increase the cylinder size becomes bigger allowing the built-in pressure assistant system to take an increased load. These bollards have a recommended maximum spacing of 1.4m and excavation depth of 30cm.

### Key features

- high level security
- easy operation
- various styles available to suit different architecture environments
- unified with other bollards in range



### SPECIFICATIONS

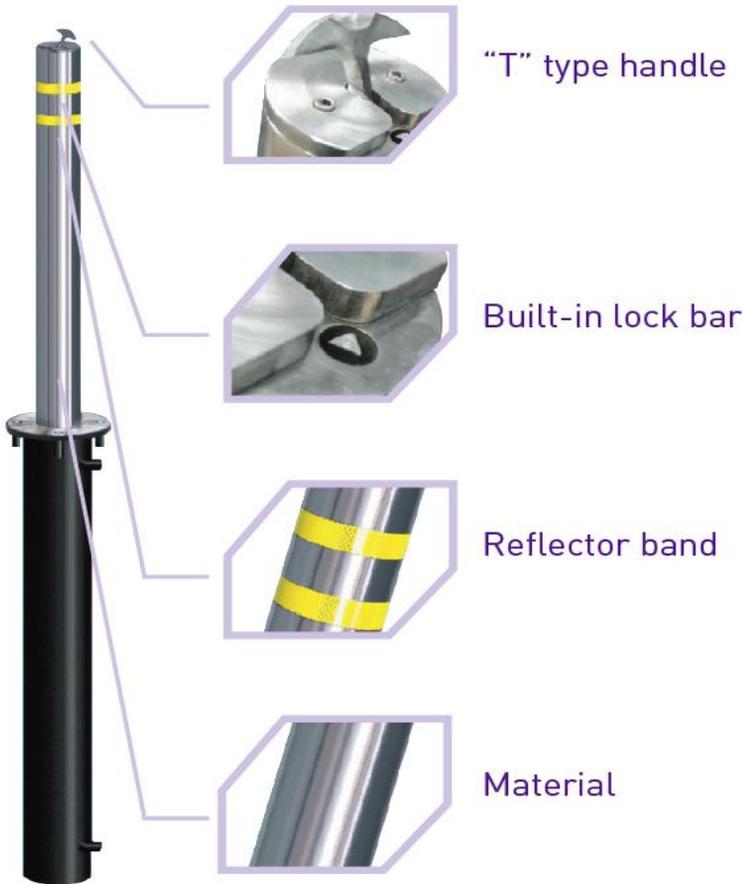
HEIGHT	900mm
DIAMETER OPTIONS	114mm, 133mm, 168mm, 220mm
MATERIAL OPTIONS	Galvanised Steel, Stainless Steel
PART NUMBERS	Galv. 114mm   DBO114SO900 Galv. 133mm   DBO133SO900 Galv. 168mm   DBO168SO900 Galv. 220mm   DBO220SO900 Stainless 114mm   DBO114S4900 Stainless 133mm   DBO133S4900 Stainless 220mm   DBO220S4900

## Platinum Range Retractable Bollard

Easily the best solution for private car parks and garages, retractable bollards provide a practical and convenient solution in most environments. Retractable bollards provide great protection from unwanted vehicles with minimal effort. These bollards have a recommended maximum spacing of 1.4m and excavation depth of 30cm.

### Key features

- traffic control
- landscape design
- permanent access control
- perimeter control
- various styles available to suit different
- architecture environments
- unified with other bollards in range



### SPECIFICATIONS

HEIGHT	900mm
DIAMETER OPTIONS	90mm, 114mm, 133mm
MATERIAL OPTIONS	Galvanised Steel, Stainless Steel
PART NUMBERS	Galv. 90mm   DBO89R0-900 Galv. 114mm   DBO114R0900 Galv. 133mm   DBO133R0900 Stainless 90mm   DBO89R4900 Stainless 114mm   DBO114R4900 Stainless 133mm   DBO133R4900



## Platinum Range Automatic Retractable Bollard

Automatic bollards are quickly becoming a more secure alternative to boom gates. Designed and manufactured by Polite Enterprises Corporation (PEC), the automatic retractable bollard provides access control and complete site security unlike boom gates, which can be damaged or easily defeated.



### Key features

- Manufactured from stainless steel
- or galvanised steel (powder coated)
- Automatic pneumatic control
- Very high impact strength
- Height above ground: 900mm
- LED colour high light and glistening film
- (optional)
- Control box can control 1 - 3 bollards
- Fully assembled power and control units
- Easy maintenance
- Fast responding speeds, enabling rapid
- direction changes



### SPECIFICATIONS

HEIGHT	900mm
DIAMETER OPTIONS	168mm, 220mm, 275mm
MATERIAL OPTIONS	Galvanised Steel, Stainless Steel
OPERATING TIME	3-5 seconds (adjustable)
WORKING NOISE	<60db
REFLECTIVE TAPE	5cm
LED COLOR	Optional
PROTECTION LEVEL	IP67
WORKING CURRENT	<1.5A
PART NUMBERS	BOL AUTO