



- For Indoor and Outdoor use
- High quality steel
- Heavy duty protection
- Thick wall gauge
- Highly visible yellow and black marking



**BLACK BULL Heavy Duty Bollards**



A comprehensive range of Heavy Duty bollards with a wide range of protective capabilities, designed to meet most eventualities ranging from medium to extremely heavy impacts.

Produced in high quality steel, these bollards are highly suitable for protecting storage areas, traffic routes and work areas. They are also useful in protecting machinery, pillars, loading ramps and bays, entrances etc.

Types L to XXL are particularly suitable for areas of high risk of collisions such as HGV and forklift traffic, driveways, corners of buildings etc. Type S is usually employed where space is restricted. The Type S Bollard can also be fitted with

our patented FLEX Pad. See page 44 for FLEX Pad details.

Type XXL is equipped with a removable cap, which enables the bollard to be filled with concrete when installed in situ if required.

**Finish:**

Hot Dip Galvanised and powder coated yellow with black bands.

Hot Dip Galvanised and powder coated white with red bands.

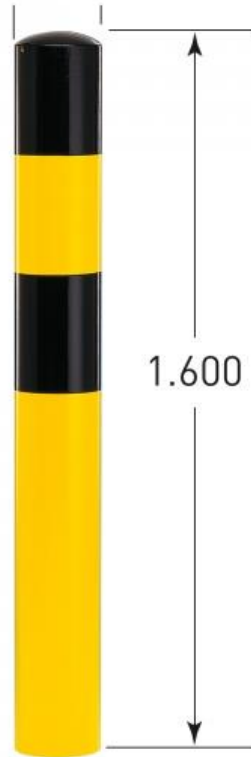
**Note:**

We can also supply removable and/or lockable versions of the range by triangular key or cylinder lock. Bollards from type L upwards are supplied with lifting aid feature. Please ask for details (Except Type XXL).



Model		Dimensions (mm) Ø x WT x height	Colour	Delivery weight (kg/ea.)	Reference
S	Surface fix Base plate 200 x 200 x 10mm	90 x 3,6 x 1,200	yellow-black	14,5	199.19.943
			white-red		199.29.625
	Root fix	90 x 3,6 x 1,600	yellow-black	16,5	199.17.454
			white-red		199.88.378
L	Surface fix Base plate 250 x 250 x 15mm	159 x 4,5 x 1,200	yellow-black	33,5	199.16.549
			white-red		199.88.077
	Root fix	159 x 4,5 x 1,600	yellow-black	35,5	199.15.852
			white-red		199.88.026
XL	Surface fix Base plate 250 x 250 x 15mm	194 x 4,5 x 1,200	yellow-black	42	199.15.151
	Root fix	194 x 4,5 x 1,600		44	199.19.836
XXL	Surface fix Base plate 350 x 350 x 15mm	273 x 5,0 x 1,200		51	199.19.146
	Root fix	273 x 5,0 x 1,600		53	199.13.769

Ø 90 / 159 / 194 / 273



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