



- 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



* Max. force absorption.
For details please request data sheets.

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 3XL 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 22 for FLEX Pad details.

NEW: Heavy Duty Bollard size 323 mm Ø x 6.3 m wall thickness designed for extremely heavy impact resistance.

Type XXL and 3XL are 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 and 3XL).



Model	Dimensions (mm) Ø x WT x height	Colour	Delivery weight (kg/ea.)	Reference	Typical despatch time (working days)
S	Surface fix Base plate 200 x 200 x 10 mm	yellow-black	14.5	199.19.943*	1 / 2 days
		white-red		199.29.625*	5 / 10 days
	Root fix	yellow-black	16.5	199.17.454	1 / 2 days
		white-red		199.88.378	5 / 10 days
L	Surface fix Base plate 250 x 250 x 15 mm	yellow-black	33.5	199.16.549*	1 / 2 days
		white-red		199.88.077*	5 / 10 days
	Root fix	yellow-black	35.5	199.15.852	1 / 2 days
		white-red		199.88.026	5 / 10 days
XL	Surface fix Base plate 250 x 250 x 15 mm	yellow-black	42	199.15.151*	5 / 10 days
	Root fix		44	199.19.836	
XXL	Surface fix Base plate 350 x 350 x 15 mm		51	199.19.146*	
	Root fix		53	199.13.769	
3XL	Surface fix Base plate 450 x 450 x 15 mm		89.6	199.22.056	
	Root fix		85.5	199.24.742	
Surface fixing bolts for models S + L (4 per bollard)			0.2	109.18.268	1 / 2 days
Surface fixing bolts for models XL + XXL (4 per bollard), 3XL (8 per bollard)			0.3	109.14.550	

* TUV tested variant