


**Q1. Do you keep bollards in stock?**

A. Yes Broxap keep a wide range of bollards in stock to suit many applications. Stock items are indicated by the  logo in the Broxap Main Product Catalogue.


**Q2. Out of what materials may bollards be supplied in?**

A. Broxap are able to supply bollards manufactured from a number of materials these include: Cast Iron, Ductile Iron, Cast Aluminium, Mild Steel, Stainless Steel, Polyurethane (PU), Timber and Concrete.

**Q3. Which are the most popular types of bollard?**

A. The Manchester Bollard is the most popular bollard that Broxap stock, however, there are many designs of bollard in various materials that are popular choices which are frequently requested.

**Q4. How long does it take to deliver bollards?**

A. Any items denoted by the  logo are available within seven working days. Other products are generally available within 3 – 4 weeks, however Broxap will endeavour to meet any reasonable delivery requirement.

**Q5. In what colours are bollards available?**

A. Broxap has a number of standard colours available. These are illustrated in the Broxap Main Product Catalogue. However products may be supplied in most RAL/BS colours. Please contact our Sales Dept for details.

**Q6. How are bollards fixed to the ground?**

A. There are a number of fixing options available for bollards. These options include: Root Fixed, Surface Fixed, Removable, Fold Down and Telescopic. Information on each of these fixing options is detailed in the technical section of the Broxap Main Product Catalogue or by contacting one of our Technical Sales Advisors.

**Q7. What are the average heights & weights of the bollards?**

A. There are many bollard designs available and therefore heights and weights will vary, however the following figures may be used as an average:

Cast / Ductile Iron	45 kg / 985mm high (Manchester Style)
PU	18 kg / 985mm high (Manchester Style)
Mild steel	25 kg / 900mm high (Manchester Style)
Stainless Steel	20 kg / 1000mm high
Concrete	220 kg / 900mm high

Height and weights of all the Bollard range are detailed in the Broxap Main Product Catalogue.

**Q8. What is ductile iron?**

A. Cast iron although long lasting and durable may be brittle when impacted therefore if a cast bollard is to be sited where vehicular impact is likely it is advisable that the bollard is supplied in Ductile Iron. Magnesium and Copper are added to the melt during manufacturing to form ductile iron. The addition of these materials change the property of the product and when impacted the bollard will bend rather than snap. Ductile iron has 450N/mn of tensile strength.

**Q9. Do Mild Steel bollards rust?**

- A. Mild Steel if left untreated will oxidise, therefore all mild steel products supplied by Broxap undergo a treatment known as galvanizing whereby the product is dipped into a bath of molten zinc which provides a protective layer both on the inside & the outside of the product. Broxap products are galvanized to the British Standard – BS EN ISO 1461:1999.

**Q10. What is a PU or Duracast Bollard?**

- A. Polyurethane is an engineering grade polymer which contains various resins and has a derivative container castor oil. This material is cast around a steel core providing an extremely strong product.

Benefits of PU products are that it is virtually maintenance free, lightweight, resistant to chipping, rust free and free from natural or chemical corrosion. This type of product is ideal for any waterside application.