

# Installation guide

## Surface Fixing Bollard

### Leaffield Highway product



**Cleaning** Products should be rinsed with clean water and then washed with a mild detergent solution using a bristle brush or sponge. Care should be taken not to apply undue pressure that may damage labels. Flush clean with water after washing.



**Manufacturing Standard** (as applicable)  
All LEAFIELD Environmental products are manufactured to BS EN ISO 9002.  
Plastic materials: Mechanical properties tested to BS 2782  
Hot dipped galvanised: BS 729  
Powder coating: BS 3900  
Zinc coating: BS 1706



**Tools** Chalk, Hammer drill, 15mm masonry drill bit, Mallet, 6mm Allen Key.



**PPE** Always wear appropriate PPE equipment and follow safety guidelines.

### Marking and drilling holes



1 Ensure supporting course is no less than 100mm in depth. Position bollard and mark through the holes with chalk.



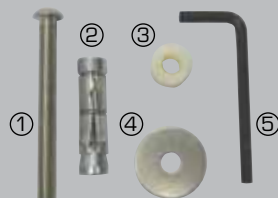
2 Drill 15mm holes at the four marked positions to a depth of 115mm to accommodate the ground fixing bolts.



3 Place raw bolts into each of the four holes.

### Please Note:

- 1) 4 x dome hex head bolts
- 2) 4 x raw bolts
- 3) 4 x nylon spacers
- 4) 4 x washers
- 5) 1 x 6mm allen key



## Preparing holes for screws



1 Hammer raw bolts fully into each of the 4 holes.



2 Insert nylon spacers into each of four holes on bollard.



3 Add washer: Push dome hex head bolts through holes in bollard locating into drilled ground holes in the concrete below.

## Tightening screws



1 Using allen key, tighten screws until tops sit flat on the bollard base with the washer between bolt head and bollard.



2 Tighten the screws to 22.0Nm torque for concrete. Tightening the bolts will fan out the bolt sheath in the hole gripping the bolt in place.



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