

# NEOPOLITAN™ 20 BOLLARD

## INSTALLATION INSTRUCTIONS

### Surface Mounted Concrete In Anchor Fixing

**IMPORTANT NOTE:- ENSURE ALL RELEVANT PERSONNEL READ THE POINTS LISTED BELOW AND THAT A COPY IS PASSED ON TO STAFF INVOLVED WITH THE INSTALLATION.**

**SAFETY NOTE:- Please refer to the 'Manual Handling Operations Regulations 1992' during the handling of product and materials used for the installation.**

#### PART No.

1. Bollard	x1
2. Galvanised Steel Tube	x1
3. Coupling Bolts	x2
4. M10 x 250 mm - Threaded Bar	x3

#### PART No.

5. M10 nuts	x12
6. Washer 50mm diameter	x3
7. Spring Washer	x3
8. Square Key	x2

#### EQUIPMENT NEEDED FOR INSTALLATION (NOT INCLUDED)

17MM Spanner, Equipment to excavate ground hole, Concrete Mix - (Fast setting concrete), Spirit level

#### WARNING: Check for buried services.

During the installation please be safe. Where necessary sign and guard your works safely with reference to New Road & Streetworks Act 1991 Chapter 8 T.S.R. & G.D.

#### 1 Suggested Installation Procedure:-

NOTE: Sites may vary due to differing substrates. A quick setting concrete will reduce time on site installations.

**Prepare a hole max. 250mm / minimum 220mm depth x 360mm minimum diameter.**

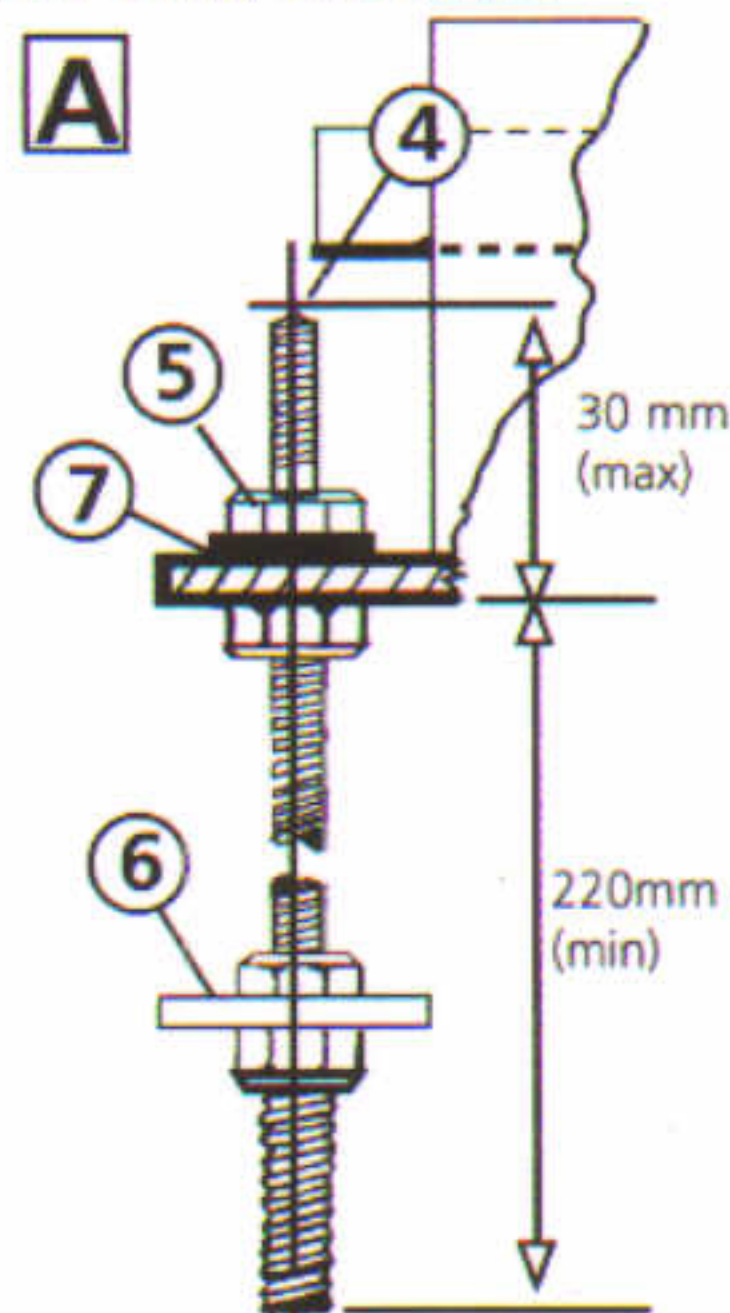
Note: The diameter of the hole is larger than the bollard to provide sufficient base weight to hold the bollard in place. However the prepared area will not be fully covered by the installed bollard.

**IMPORTANT:- ENSURE THAT NO FINISHING / HOT TOP SURFACE DRESSING MATERIALS COME INTO CONTACT WITH THE BASE PERIMETER OF THE BOLLARD.**

**2** Fully assemble and tighten all three threaded bars into position around the galvanised steel tube using the parts as listed in diagram (A).

If a shallower depth is required ensure that the upper thread dose not exceed 30mm from the top of the base plate this ensures that there is no interference with the internal surface of the bollard.

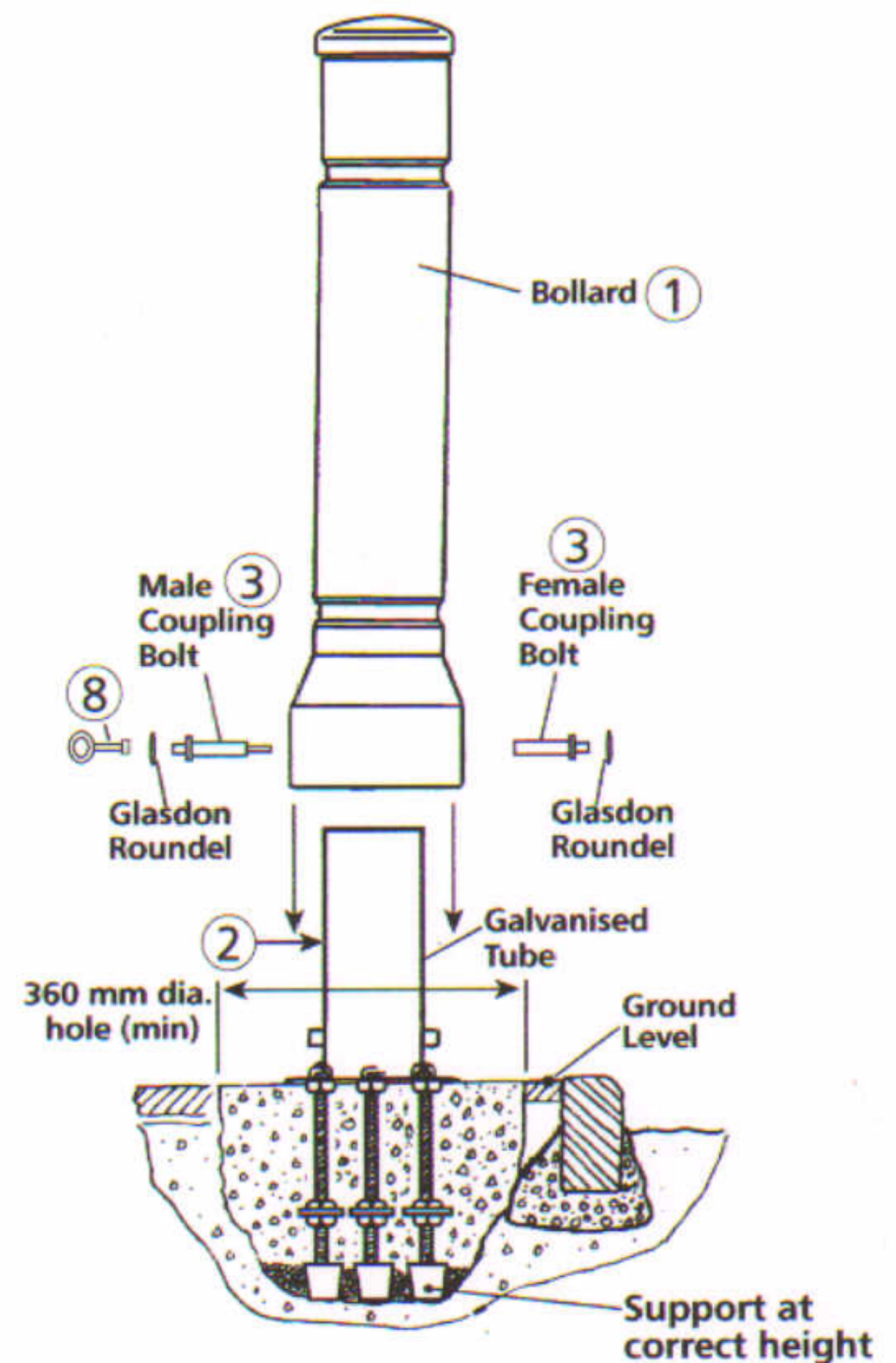
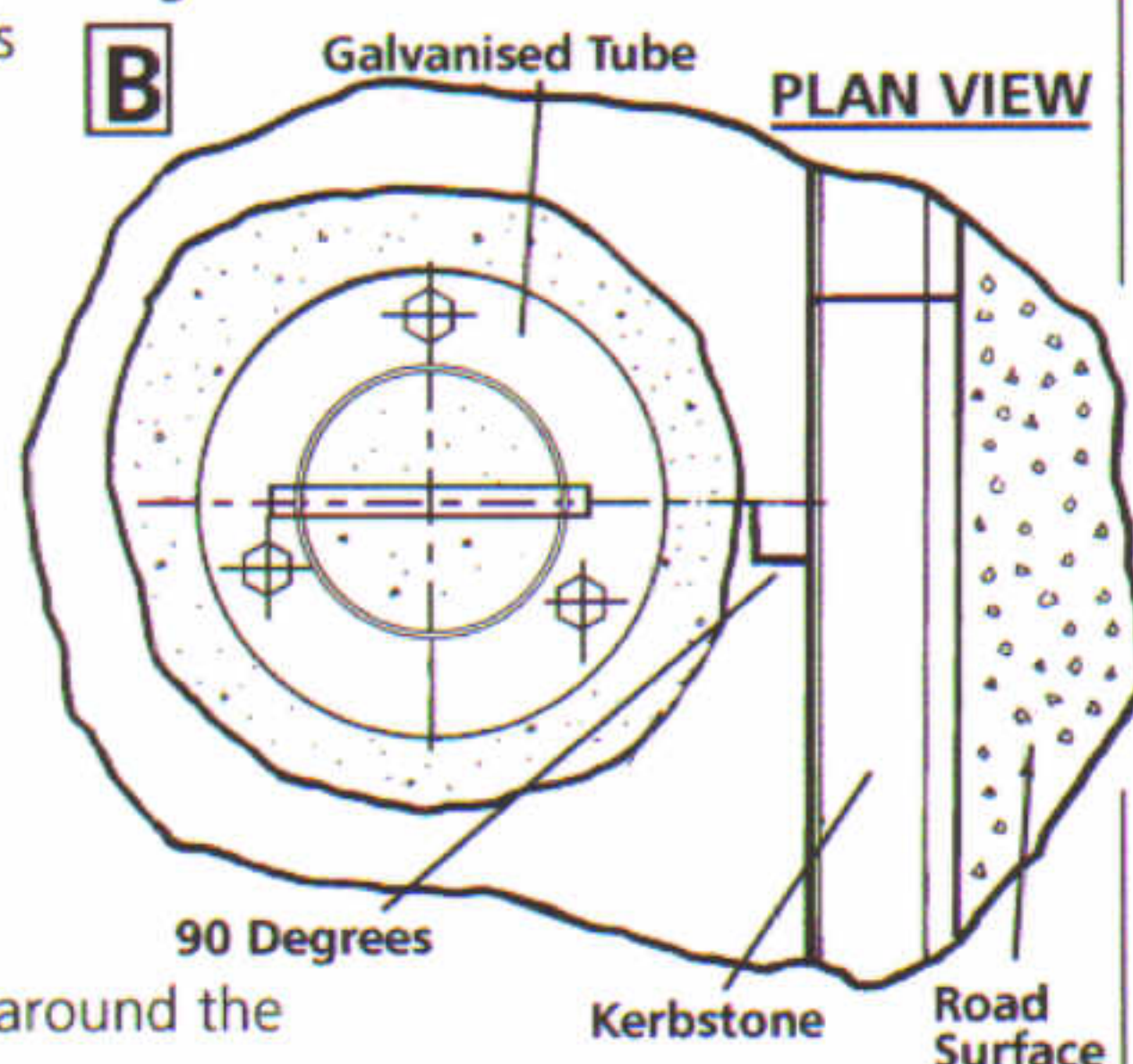
If preferred the threaded bar may also be manually cut to length.



**3** Place aggregate into the base of the prepared hole to provide a lower drainage level. Check the depth is correct and ensure that all three rest points for the anchorbolts have some form of stone support under them, and place the metal assembly into the hole ensuring the levels are horizontal and the orientation to the road is correct (see B) i.e. the horizontal tube within the galvanised tube must be at 90 degrees to the road surface.

Arrange the concrete mix around the whole assembly and fill up to the underside of the metal base plate. If necessary a vibration device may be used to bed the concrete down around the assembly.

**NB. Do not submerge the metal base into the concrete.**



**4** Slide the Bollard over the GALVANISED TUBE until it rests onto the base plate. Insert the male & female COUPLING BOLTS through either side of the bollard, and tighten them together using both square keys (8). RE-CHECK AT THIS POINT BEFORE CONCRETE SETS FULLY THAT THE BOLLARD IS VERTICAL AND THE ORIENTATION IS CORRECT. Clean the area around the coupling bolts and carefully align each GLASDON ROUNDAL to the recess to conceal the COUPLING BOLT heads, and apply pressure to them for approximately 30 seconds to ensure correct adhesion.

# NEOPOLITAN™ 20 BOLLARD

## INSTALLATION INSTRUCTIONS Surface Mounting Onto Concrete

**IMPORTANT NOTE:- ENSURE ALL RELEVANT PERSONNEL READ THE POINTS LISTED BELOW AND THAT A COPY IS PASSED ON TO STAFF INVOLVED WITH THE INSTALLATION.**

**SAFETY NOTE:- Please refer to the 'Manual Handling Operations Regulations 1992' during the handling of product and materials used for the installation.**

PART No.		
1.	Bollard	x1
2.	Galvanised Steel Tube	x1
3.	Coupling Bolts	x2

PART No.		
4.	Square Key	x2
5.	Anchor Bolts	x3

**EQUIPMENT NEEDED FOR INSTALLATION (NOT INCLUDED)**

17MM AF Spanner, Equipment to excavate ground hole, Concrete Mix - (Fast setting concrete)

**WARNING: Check for buried services.**

During the installation please be safe. Where necessary sign and guard your works safely with reference to New Road & Streetworks Act 1991 Chapter 8 T.S.R. & G.D.

**Suggested Installation Procedure:-**

**NOTE: Sites may vary due to differing substrates. A quick setting concrete will reduce time on site installations.**

**Preparing a Suitable Site**

(Only if a level, substantial concrete foundation does not already exist to the minimum recommended dimensions outlined below)

- 1 Prepare a 450mm DEEP HOLE (min)  
Note: The diameter of the hole is larger than the bollard to give adequate concrete thickness around the ANCHOR BOLTS, however the prepared area will not be fully covered by the installed bollard
- 2 Fill with concrete, tamp down surface to GROUND LEVEL, ensure surface is horizontal, and leave to set.

**Surface Mounting the Galvanized Tube**

- 1 Position the GALVANIZED TUBE onto the concrete site, orientating it with regard to site requirements  
Note: The BOLLARD will only fit over the GALVANIZED TUBE one way once the ANCHOR BOLTS are fastened down.
- 2 Mark the position of all three holes and remove the GALVANIZED TUBE.
- 3 Drill and clean out three 10mm DIA. HOLES to a minimum depth of 140mm  
Note: In the event that the Bollard and metal base is removed from the site the fixings can be made flush to ground level by tapping them down with a hammer or grinding off.
- 4 Place the GALVANIZED TUBE back into position and secure by tapping ANCHOR BOLTS complete with washers and nuts into each hole with a hammer. Tighten up using a 17 mm AF spanner. Max. recommended torque setting - 20 lbs /ft (,27Nm).

**Securing the Bollard in Place**

- 1 Slide the BOLLARD over the GALVANIZED TUBE until it rests onto the plate.
- 2 Insert male/female COUPLING BOLTS through either side of the BOLLARD and tighten them together using both SQUARE KEYS.
- 3 Thoroughly clean and de-grease the BOLLARD around both COUPLING BOLT head recesses.
- 4 Carefully align each GLASDON ROUNDEL to the recess to conceal the COUPLING BOLT heads and apply pressure to them for approximately 30 seconds to ensure correct adhesion.

**IMPORTANT:-**

**ENSURE THAT NO FINISHING/HOT TOP SURFACE DRESSING MATERIALS COME INTO CONTACT WITH THE BASE PERIMETER OF THE BOLLARD.**

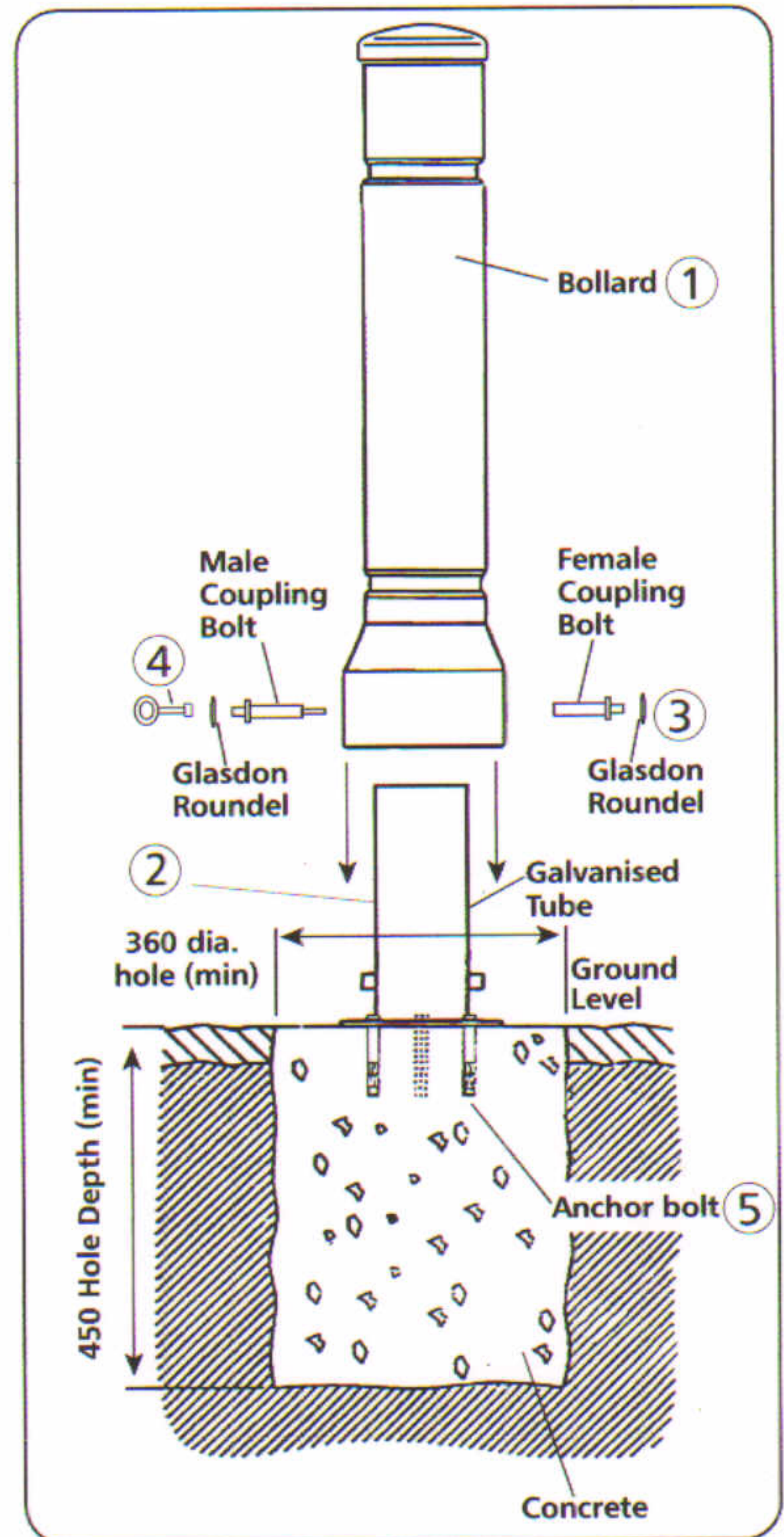
**MAINTENANCE**

To clean the exterior of the product we recommend using a cold pressure wash with soap or alternatively hand washing it with a soft brush and cold soapy water, rinsing it afterwards to remove any residue.

Glasdon® NEOPOLITAN™ ARE TRADEMARKS OR REGISTERED TRADEMARKS OF GLASDON GROUP OR ITS SUBSIDIARIES IN THE U.K. AND OTHER COUNTRIES

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Glasdon reserve the right to alter specification without prior notice.



- A planned maintenance schedule of regular inspection is recommended, replacing components as necessary.
- Replacement components are available direct from GLASDON.
- GLASDON cannot be held responsible for claims arising from incorrect installation, unauthorised modifications or misuse of the product.



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