

# INSTALLATION AND USER INSTRUCTIONS

# Read in full before starting

# We recommended the following minimum precautions are taken:

- Wear appropriate safety clothing
- Eye protective and hand protection should be worn, including safety helmet.
- Wear strong protective gloves.
- Secure the site from pedestrians and vehicles, where applicable, by the use of high visibility tape, barriers, cones, safety lamps etc.
- If you use power supply ensure that it is secure and in a safe dry location.
- Ensure there are no underground services that may be affected.
- A minimum of two personnel are recommended.

# **FEATURES**

• Can be positioned between hinged posts to prevent unauthorised parking, or used as a permanent post/bollard by themselves to mark lateral limits, or with chain and eyelets to lock access points. Posts and bollards in most cases can be ragged for casting in or flanged for bolting down. Fixing down bolts is available extra – type depends on ground conditions.

#### INSTALLATION INSTRUCTIONS

#### Ragged/Cast in versions

- Determine the position of the installation. Break the surface and make a hole approx 300mm square x 300/500mm deep depending on size of bollard and site conditions.
- Place the post/bollard in the centre of the hole and ensure it is vertical with a spirit level and fill the rest of the hole with concrete, allow to fully dry.

# Flanged/Bolt down versions

Determine the position of the installation and ensure the surface is suitable – preferably concrete at least 400mm x 400mm cube. Use the bolt holes in the flange plate for a template and drill holes for the bolts. Bolt the post/bollard into position under the surface of the flange resting flat on the ground, making sure the bolts are securely tightened. The drilling hole depth and diameter will depend in the type of bolt being used. Fixing down bolts are available extra – type depends on ground conditions.

# If you have eyelets ensure they are facing the desired orientation before the posts are fixed into position

# MAINTENANCE

- Occasionally clean all surfaces with soap and water
- Check all fixing bolts and other visible fixings are suitably tight and have not worked loose.
- Check foundations remain firm.