

# Rebound Signmaster™ Bollard

## INSTALLATION INSTRUCTIONS

### Adjustable Depth Concrete-in Fixing System

**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 the product and materials used for the installation.

#### PRODUCT COMPONENTS:

ITEM 1. Bollard	x 1
ITEM 2. Adjustable Concrete-in Fixing	x 4
ITEM 3. Spacer (M10 x 28 mm)	x 4
ITEM 4. Washer (M10 x 50 mm)	x 8
ITEM 5. Fixing Screw (M10 x 100)	x 4

#### TOOLS REQUIRED FOR INSTALLATION:

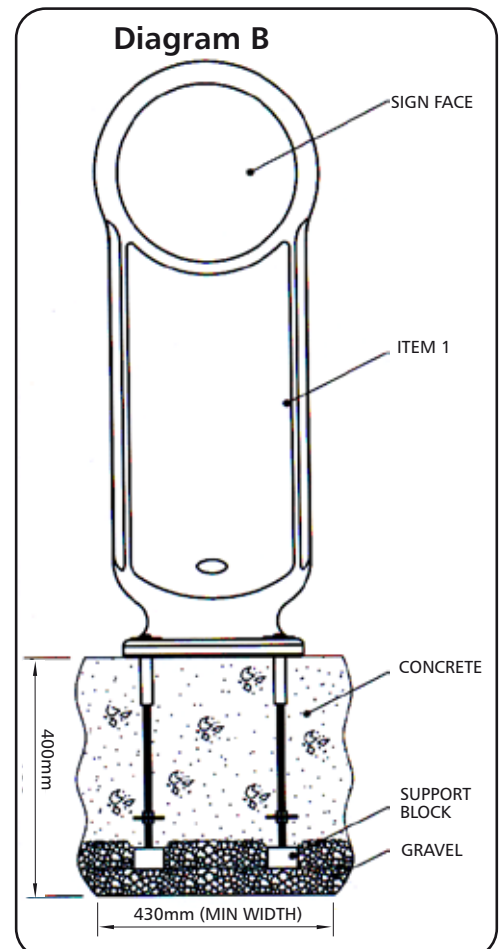
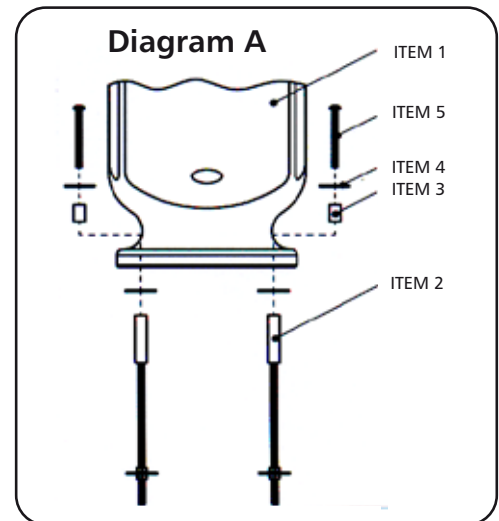
- 6 mm allen key (included within kit)
- Equipment to excavate hole
- Concrete Mix (Fast Setting)
- Spirit Level

#### INSTALLATION:

- 1) **Check for buried services before starting installation.**
- 2) Prepare a hole 430mm x 430mm x 400mm deep.
- 3) Fully assemble and tighten all four Concrete-in Fixings (item 2) to the base of the bollard (item 1) as shown in the diagram A.
- 4) If the depth is restricted to less than 400mm the fixing can be adjusted by moving the bottom washer of item 2 up the Concrete-in Fixings and cutting the bar to the desired length. We would recommend using the same volume of concrete by increasing the width of the hole accordingly.
- 5) Place aggregate and support blocks in the base of the prepared hole.
- 6) Place the Concrete-in Fixing Assembly into the hole ensuring that the fixings rest on the support blocks and that the bollard is vertically level.
- 7) Remove the bollard and fixing assembly and pour the concrete mix into the prepared hole to the desired level.
- 8) Ensure the bollard is orientated correctly with regard to the site requirements. (i.e. Retro-Reflective Sign Faces and Amber Patches).
- 9) Fully insert the Concrete-in Fixing Assembly into the concrete until the base of the bollard is flush with the top surface of the concrete (see diagram B).
- 10) If required the top of the bollard foot detail can be sunk flush with the concrete/block paving to give a neat finish. DO NOT concrete over the fixing screw heads as this will impair the performance of the Rebound models and will prevent the bollard being replaced.
- 11) Ensure the bollard remains vertically level during the concrete setting period.

#### REPLACING YOUR BOLLARD

- 1) Remove the four Fixing Screws with the 6mm Allen Key provided (discard the Fixing Screws).
- 2) Remove the existing bollard and replace with your new bollard in the correct orientation aligning the holes in the bollard base with the existing Anchor Rawl Plugs.
- 3) Insert Spacer (item 3) into the four holes in the base of the bollard.
- 4) Position a Washer (item 4) onto the Fixing Screw (item 5) and insert one into each of the four holes.
- 5) Using the 6mm Allen Key provided, loosely tighten each of the Fixing Screws, and then fully tighten to complete the installation.



# Rebound Signmaster™ Bollard

## INSTALLATION INSTRUCTIONS

### Surface Mounting onto an Existing Concrete Foundation

**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 the product and materials used for the installation.

#### PRODUCT COMPONENTS:

ITEM 1. Bollard	x 1
ITEM 2. Anchor Rawl Plug	x 4
ITEM 3. Spacer (M10 x 28 mm)	x 4
ITEM 4. Washer (M10 x 50 mm)	x 8
ITEM 5. Fixing Screw (M10 x 100)	x 4

#### TOOLS REQUIRED FOR INSTALLATION:

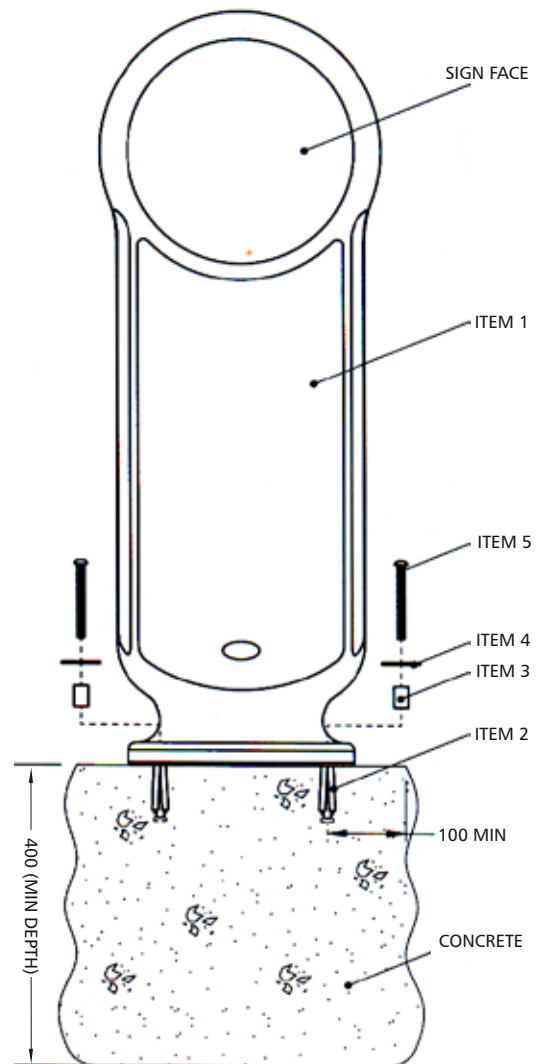
- 6 mm allen key (included within kit)
- 16mm Diameter Drill Bit
- Appropriate Electric Drill
- Hammer


#### INSTALLATION:

- 1) Position the bollard (item 1) centrally on the intended site and orientate it correctly with regard to the site requirements. (i.e. Retro-Reflective Sign Faces and Amber Patches).
- 2) Using the bollard, mark out the four hole positions.
- 3) Before drilling ensure that the hole centres are a minimum of 100mm from the edge of the concrete foundation.
- 4) Drill the four holes with a 16mm diameter drill bit no less than 80mm deep (ensure holes are in the correct position by aligning the bollard and drilled hole centres).
- 5) Insert an Anchor Rawl Plug (item 2) into each of the four drilled holes, a hammer may be required to tap them flush to ground level.
- 6) Locate the bollard in position aligning the holes in the bollard with the Anchor Rawl Plugs ensuring the bollard is orientated correctly.
- 7) Insert Spacer (item 3) into the four holes in the base of the bollard.
- 8) Position a Washer (item 4) onto the Fixing Screw (item 5) and insert one into each of the four holes.
- 9) Using the 6mm Allen Key provided, loosely tighten each of the Fixing Screws, and then fully tighten to complete the installation.

#### REPLACING YOUR BOLLARD

- 1) Remove the four Fixing Screws with the 6mm Allen Key provided (discard the Fixing Screws).
- 2) Remove the existing bollard and replace with your new bollard in the correct orientation aligning the holes in the bollard base with the existing Anchor Rawl Plugs.
- 3) Continue the installation from note 7 above.



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

- 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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