

ATG Access Ltd.

Manually Operated Rising Bollards

Installation Instructions



Model(s)

OPTI 90 Round, OPTI 90 Square, OPTI 101, OPTI 114
PSU03 Sunderland Retractable

General

It is essential to use these instructions in conjunction with the installation drawing and the Manual Bollard General Installation Instructions.

As previously stated the area must be cat scanned for underground services before beginning and a cable avoidance tool should be employed.

Definitions

Outer Bollard – This is the large box section which goes underneath the ground.

Inner Bollard – This is the section which rises above ground level.

Unless otherwise stated these instructions refer to the Outer Bollard.

Method Statement

Mark a 300mm square hole on the ground

Cut the surface within that hole to a depth of 75mm.

A cutting disc may assist.

Cut out the centre of the hole with a hammer drill (Kango).

Dig the hole to a final depth of 1050mm.

This should result in the top of the outer bollard being 6mm above ground level.

Clipper spades may assist the dig.

Place a layer of gravel at the bottom of the hole to assist drainage and to bring the depth of the hole to approximately 940mm.

Set the outer bollard in the centre of the 300mm square hole ensuring it is vertical in both planes and that the top edge is 6mm above the ground.

DO NOT measure vertical alignment by the lid frame, instead pull the inner bollard to the upright position, measure alignment and then return to down position.

The lid must close in the same direction as the main flow of traffic.

Fill the sides of the hole with chippings to a depth of 300mm from the top of the hole.

Fill the remainder of the hole with concrete using 3 parts chippings, 2 parts sand and 1 part cement.

Dye can be used to match the finish to the existing surface.

Smooth the top of the concrete with a trowel.

Ensure that the lid can fold back level with the ground.

The Inner Bollard should be left in the down position until the concrete dries.

Allow at least 24 hours for the concrete to dry.

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