1

Layout and mark final location using the base as a guide. Ensure two anchor slots are facing towards the most common direction of impact. *Note: Keep the bollard 0.32 x height away from any solid object to allow for tilting.*

2

Remove base and drill six 16mm holes, 135mm deep. Clean out the concrete dust from the holes.

3

Place the elastomer in the center of the location.

4

Place the adapter centered on top of the elastomer so that the set screws are facing the direction of impact.

5

Fit base over the adapter so that it rests on the adapter flange and covers the elastomer.

6

Hand tighten all six anchors slightly into their holes. Ensure that the base anchor slots are evenly aligned with the anchors.

7

Tighten the concrete screw Anchors in a star pattern, compressing the elastomer and making the base flush to the concrete. Anchor heads must be tightened firmly, flush to base. *Torque Spec: 115 Nm*

8

Insert the pipe into the adapter.

9

Firmly tighten all set screws to hold the bollard pipe in place. *Torque Spec: 68 Nm*

Materials

1	Elastomer
1	Adapter with Set Screws
1	Base
1	Metal Tube
6	Concrete Anchors

Tools Required

Hammer Drill
Concrete Drill Bit
Impact Wrench
Impact Socket
Vacuum or Compressed Air with Nozzle
8mm Allen Wrench

Notes
- Assembly and Installation should be performed by qualified personnel only.
- Installation to be done on concrete with a minimum of C20/25, 150mm thick.
- Bollards and anchors must be properly sized and rated for the expected loads and speed.