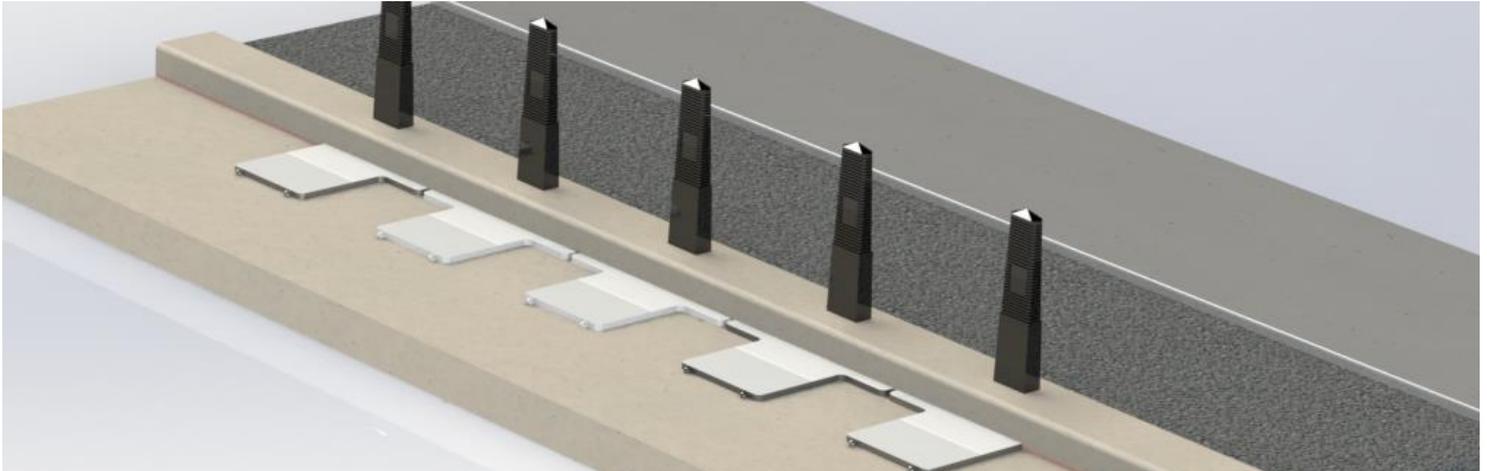


# WESTMINSTER BRIDGE PROTECTION BOLLARD

Operation Type: Shallow Foundation, Fixed



ATG ACCESS



## PRODUCT OVERVIEW

The ATG Access Westminster high security bollard has been fitted into a new, super shallow foundation structure and tested at a shallow angle of attack to be suitable for bridge protection.

This innovative system sits within a 40 mm deep base plate and allows the bollard structure to sit within a bridge kerb.

Tested at 48 kph, the angle of attack was shallow; 30° to simulate a realistic bridge attack.

The foundation structure has to be super shallow to ensure that the structural integrity of a bridge deck is not affected during installation of these security measures. The product was tested in an array of five and achieved a penetration measurement of less than 1 m.

Tested with the prestigious Westminster, heritage style bollard. This product has a ribbed profile and a peaked top. Within the front facia there is a specifically designed section to enable a corporate logo or crest to be inserted. Supplied with a primed finish as standard. The bollard is manufactured from micro-engineered steel which has high impact restiveness and the ability to absorb massive amounts of energy without fracturing. This type of steel also benefits from having anti-cut and vandalism properties.

The foundation and socket design can incorporate other bollard types and shapes if required. Aesthetically, the bollard can look however is required above ground to suit the surrounding area and urban design.

## SECURITY RATING

**Westminster Bridge Protection Bollard:**

**IWA 14:** V/7,200[N2A]/48/30:0.6  
**PAS 68:** V/7,500[N2]/48/30:0.4/0.0

## FINISHES

Manganese steel supplied primed as standard with a blank front facia. Optional corporate logo or crest. Can be fitted with a cylindrical bollard if required.

## WESTMINSTER BRIDGE PROTECTION BOLLARD

<b>Bollard Diameter</b>	273 mm (front face), 133 mm (side profile)
<b>Height Above Socket</b>	1065 - 1155 mm (depending on floor finishing)
<b>Foundation Depth</b>	40 mm
<b>Finishes Available</b>	Black Manganese Steel Primed; optional corporate logo or crest
<b>Security Rating</b>	<b>PAS 68:</b> V/7,500(N2a)/48/30:0.4 <b>IWA 14:</b> V/7,200[N2a]/48/30:0.6

