

# POPULUS ULTRA SHALLOW BOLLARD



## Technical Specifications

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**Bollard Diameter** 153 mm (galvanised core); 168 mm sleeved (any sleeve specification can be accommodated)

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**Height Above Ground** 800 mm (above finished floor level)

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**Foundation Depth** 40 mm (true depth)

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**Finishes Available** Galvanised core. Historic / heritage sleeve designs can be accommodated if required; the slim high-security core of this system can easily accommodate special aesthetics. Handrails and pedestrian guardrail can be accommodated to restrict pedestrian access anywhere along the array.

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**Security Rating** **BSI PAS 68:** 2013 V/7500[N2]/48/30:0.6/0.0  
*Minimum tested array – 7 units*

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**Operation Type** Shallow Foundation, Fixed

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**ATG**

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## POPULUS ULTRA SHALLOW BOLLARD

### Product Overview

ATG Access is very proud to be able to launch the next generation in bridge protection technology. Our Populus Bollard has a revolutionary slim core, able to fit a wealth of aesthetic options and a height above ground deemed 'cycle-friendly'.

This system was impact tested at the MIRA testing facility in March 2020 to both the IWA 14 & BSI PAS 68 standard, successfully arresting a 7,500/7,200 kg vehicle travelling at 48 kph. The test simulated a bridge attack and, the angle of attack was 30°. The system performed incredibly well and achieved minimal penetration (<0.5m).

This system only requires a true depth of 40 mm for installation; no other upstanding structure is required. No mechanical bolting or fixings are required during installation. The array simply sits within a very shallow excavation which may be planed away.

Installation of the test array was completed by MIRA civil engineers who had not seen the system before in just under 40 minutes.

A minimum array of seven bollards is required and then individual modules can be added in singular units to cover the length required. The layout can accommodate a gap in the foundation between adjacent arrays to accommodate bridge expansion joints.

This innovative product is not designed to be reliant on digging into a sub-structure unlike other systems and can articulate to accommodate cambers and contours in a bridge structure.

Aesthetically, due to a low bollard height, the system is cycle-friendly. The bollard can be sleeved with a stainless-steel aesthetic sleeve, still providing an incredibly slim profile.

Handrails and pedestrian guardrail can be accommodated to restrict pedestrian access anywhere along the array. Historic or heritage sleeve designs can be accommodated if required. The slim high-security core of this system can easily accommodate special aesthetics.