



Technical Specifications

	STOPPER 10	STOPPER 20
Height Above Ground	1,005 mm	1,005 mm
Bollard Diameter	140 mm	168 mm
Foundation Dimensions	600 mm x 600 mm x 725 mm – Rebar Required	600 mm x 600 mm x 725 mm – Rebar Required
Clear Gap Between Bollards	1,200 mm	1,200 mm
Security Rating	BSI PAS 170-1: 2017 Bollard IT/2500/16/90:0.1 <i>Minimum tested array – 1 unit</i>	BSI PAS 170-1: 2017 Bollard IT/2500/32/90:1.8 <i>Minimum tested array – 1 unit</i>
Finishes Available	Steelwork, hot-dip galvanised to BS EN ISO 1461; strands zinc plated, and HDPE coated as per EN 10264-2:2002 or EN 10255-2.	
Operation Type	Fixed, High-Security Bollards	

STOPPER BOLLARDS

Product Overview

Brought to you by Hill & Smith Barriers, the Bristorm Stopper bollards comprise of CHS section with, if required, a pedestrian guardrail as per BS 7818.

The individual, high-security bollards are comprised of a standard 140 or 168 CHS HR section cast in concrete. They can be installed as stand-alone products to protect sites against lower-velocity attacks and also accidental impact. The product can also be built into a pedestrian guardrail to be combined as a security and safety feature to keep pedestrians safe and vehicles excluded from an area or walkway.

The gap between bollards when installed must not be greater than 1,200 mm, measured 600 mm from floor level to ensure that the product meets the BSI PAS 170 accreditation and is installed as tested.

The 'Class 4D Guardrails' are bolted to the bollards with shear nuts. The Bollards have additional lugs (50x10-55lg) mild steel when a guardrail is required.

The height of the guardrails shall be 1,005 mm from the finished ground level.

All guardrails and bollards are hot-dipped galvanised to BS EN ISO 1461 after fabrication. The product can then be supplied in a RAL colour if required.