



BRIDGE BOLLARD SYSTEM



Revolutionary surface mounted bollard system

Heald's Bridge Bollard System consists of nine fixed bollards on individual baseplates, which are bolted together. It is completely unique product which requires no pinning.

Designed for bridges in particular, the bollard system has been IWA-14 crash tested to halt a 7.2 N3C vehicle (18 tonner) travelling at 48 kph (30 mph). Its unique interlocking design provides shared distribution of the load, while patent applied technology offers additional protection by anchoring the bollards into the ground upon impact, preventing the vehicle from penetrating the area the bollards are protecting.

The product has been crash tested with an array of nine interconnected bollards, with the design allowing for additional bollards to be added to expand the area being protected.

The bollards remained intact during testing and there was no encroachment of the vehicle onto the footway. Minimal dispersion and debris was recorded, ensuring pedestrian safety. The product has been tested at 30 degrees to demonstrate how a vehicle could impact the bollards on a bridge.

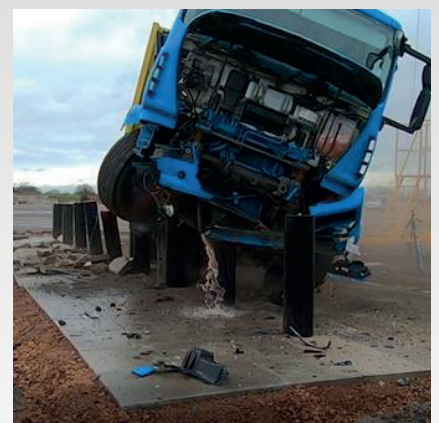
Although the product has been designed to address the challenges specifically faced in protecting bridges, it is also ideal for any locations where even bolting to the ground is not possible.

The bollards take approximately 45 minutes to deploy excluding civil works. With no requirement for a concrete base, the existing pavers are simply lifted, the bollards are fitted and the existing pavers are then refitted. A variety of different bollard covers are also available.

The Bridge Bollard System is easily transported, due to its modular design and each bollard is simply bolted to the next one on site.



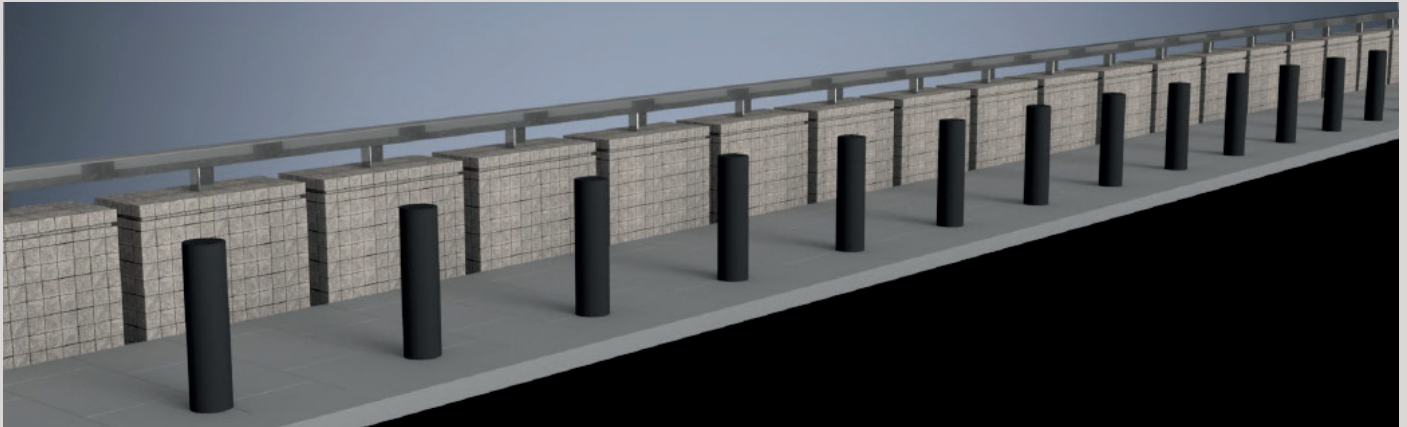
**The only product of its type
to be crash tested against
an N3C vehicle**



Due to a continuous program of development Heald reserve the right to change specifications at any time.

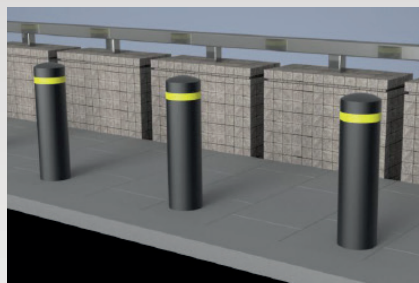
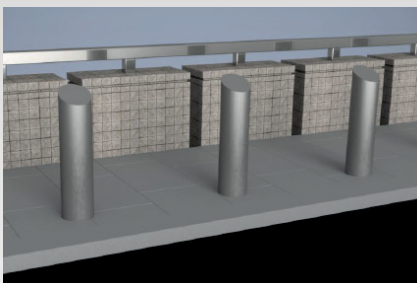


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Performance Classification	IWA14-1:2013 Bollard V/7200[N3C]/48/30:0.9
Bollard Diameter	220 mm
Bollard Height	875 mm (without covers) 955 mm to the top of the BBS base
Bollard Spacing	1200 mm between each bollard
Base Plate	1420 mm wide x 1200 mm deep
Excavation Depth	No pinning required
Patent Number	GB Patent Application Number GB2000701.9

Various cover options available to blend in with surrounding aesthetics



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