

# ANTI-TERRORIST BRIDGE BOLLARDS

## IWA 14 Crash Tested to Stop a 18 Tonne GVW Truck Travelling at 30mph/48mkm/h at 30°

### ULTRA SHALLOW TOPPING ONLY 80MM DEEP



Patent Applied For

How it would look after Truckstopper Install

## NO PINNING TO THE BRIDGE DECK REQUIRED



### Designed to be Secure, Reliable and Highly Effective at Protecting Bridges

Safetyflex Barriers have been commissioned and tasked to design a new ultra-shallow anti-terrorist bollard for protecting Bridges from Vehicle Terrorist Attacks

Safetyflex design team have once again designed the next generation of bollard, with their specialist designs and energy absorption materials they have designed a new type of bollard that requires:

- ▶ Light Weight Designed Bollard System for High Speed Install
- ▶ An Ultra Shallow Topping of "Only 80mm Deep"
- ▶ No pinning to the bridge deck



# HVM BRIDGE BOLLARDS

## Designed to Stop Vehicle Terrorist Attacks on London Bridges



### ULTRA SHALLOW TOPPING ONLY 80MM DEEP

#### Light Weight Designed Bollard System for High Speed Install...

Safetyflex's new Truckstopper Bridge Bollard has been tested to IWA14, to stop an 18 ton vehicle GVW (N3C) At 30mph with the attack impact at 30 Degrees, with only 80mm topping.

It has been designed with the idea of using single heritage-style bollards that will create separate space for cyclists across the bridge, and enough space for all other bridge users.

#### PERFORMANCE CLASSIFICATION

IWA14-1:2013 V/7200 [N3C]/48/30:1.8

Key elements in the design include:

- ▶ Aesthetically pleasing
- ▶ Ultra-shallow topping (of only 80mm deep) with no deck fittings
- ▶ Stops a LARGE TRUCK (N3C vehicle, 18 tonne Gross Vehicle Weight) which replicates the size of a large London bus
- ▶ Bollard impact tested at roadside lane
- ▶ Is a light weight system, and not over engineered
- ▶ Heritage style bollards and modern
- ▶ Designed to be the most cost effective bollards HVM solution



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