

TERRA LUNAR BRIDGE BOLLARD 30mph**IWA-14 STATIC TERRA LUNAR BRIDGE BOLLARD 30mph****ZERO PENETRATION**

Frontier Pitts is excited to introduce our shallowest bollard yet requiring foundations of just 75mm which resulted in zero penetration when tested to IWA 14 stopping 7.2t at 30mph.

Bridge around the World are vital to our transportation network but have already been subjected to vehicle attacks by terrorists, users have become extremely vulnerable. Frontier Pitts have created a bollard bridge system that is able to sit within the bridge kerb structure utilising an ultra-shallow foundation of less than three inches.

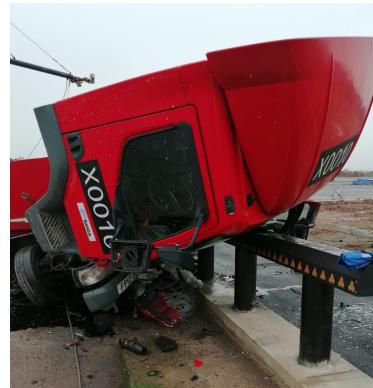
The Terra Lunar Bridge Bollard system was impact tested to IWA 14 at Horiba MIRA. The system successfully stopped a 7.2t vehicle traveling at 30mph at a shallow attack angle of 30-degrees, resulting in ZERO penetration. This means the bollard system successfully protected the pathway as there was no encroachment by the vehicle. At time of print, this is the best result in the world from a bridge protection bollard system.

The challenge of designing and installing a bollard system to protect a bridge has its own set of unique problems as the not only are the foundations extremely limiting, but the structural integrity of the bridge deck cannot be compromised.

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Another part of the challenge is the appearance and look of the protective systems. Temporary solutions that have been installed on bridges have been unpopular in London as they have been described as bulky and not in keeping with the decorative look and feel of London's ornate architecture and heritage. Frontier Pitts Terra Bridge Bollards system includes a decorative beam which sits on top of the bollards linking the system together the bollards together. For an ornate design, the decorative beam can incorporate a trefoil design or indeed any logo specific to the client or site. Other options include LED lighting and reflective banding.

The Terra Lunar Bridge Bollard system is designed to fit lengths of pathways and pavements. Although designed to protect bridges, this ultra-shallow bollard solution can also be used for other inner-city areas, pathways, linear walkways and cycle lanes where there is limited foundation depth.



Height above Ground

960mm

Diameter Typical

219Ø

Foundation

D75mm

for an array of 8 bollard

Painted as standard

Finish:

Decorative over sleeving

Security Rating:

Decorative Beam

IWA14 CLASSIFICATION CODE

IWA 14-1 7.2t @ 48kph

BENEFITS & FEATURES

IWA14V/7200/48/30:0.0 ZERO PENETRATION

- Zero penetration
- Anti-Terrorist protection for Bridges or other Ultra Shallow installations.
- Decorative Beam with option of engraving a special design or corporate logo
- Modular design for quick & easy installation
- Designed for ease of maintenance

OPTIONS

- LED lights