

## TERRA LUNAR BRIDGE BOLLARD 30mph

NEW FOR 2020

**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.

