



August 28, 2023

To whom it may concern:

This letter is to certify that the subject barrier, the G-1131 M30 P1 Shallow Mount Bollard provided by Gibraltar was tested to the requirements of the ASTM standard F-2656-20, Standard Test Method for Vehicle Crash Testing of Perimeter Barriers.

The test was performed at Calspan Corporation on June 21, 2019. The Gibraltar M30 P1 Shallow Mount Bollard was impacted by a truck weighing 6747.2 kg (14,875 lbs.) travelling at 47.96 kph (29.8 mph). Post-test measurements of the dynamic movement of the test vehicle's payload (truck bed) show that the left and right leading edge of the truck bed was stopped at 1.47 meters and 1.33 meters respectively before the leading edge of the impacted bollard. As such, based on the truck mass, impact velocity and penetration into the protected zone, the barrier rating per the ASTM standard F-2656-20 is M30-P1.

Calspan is accredited to ISO 17025 to perform ASTM F2656-20 testing by Perry Johnson Laboratories Accreditation, Inc. (PJLA) under Certificate Number L13-137 and Accreditation Number 76654.

Respectfully,

A handwritten signature in black ink that reads "Benjamin Metzger".

Benjamin Metzger
Test Engineer

Safer Highways... Safer Skies