



December 23, 2016

To whom it may concern:

This letter is to certify that the subject barrier, the G-1350 M50-P1 Bollard, provided by Gibraltar, was tested to the requirements of the ASTM standard F-2656-07, Standard Test Method for Vehicle Crash Testing of Perimeter Barriers, in place when test was performed.

The test was performed at Calspan Corporation on December 18th, 2016. The barrier was impacted by a truck weighing 6,924.2 kg (15,265 lbs.) travelling at 81.56 kph (50.68 mph). Post-test measurements of the dynamic position of the test vehicle's payload (truck bed) with respect to the trailing edge of the barrier show that the left and right leading edge of the truck bed was stopped at 193mm and 386mm, respectively. As such, based on the truck mass, impact velocity and penetration into the protected zone, the barrier rating per the ASTM standard F-2656-07 is M50-P1.

Calspan is accredited to ISO 17025 to perform ASTM F2656-07 testing by Perry Johnson Laboratories Accreditation, Inc. (PJLA) under Certificate Number L13-137 and Accreditation Number 76654.

Respectfully,

A handwritten signature in blue ink that reads "Edward Dutton".

Edward Dutton
Test Director

Safer Highways...Safer Skies