



TEST No.: CAL3830  
Test Standard: ASTM F2656-15  
Client: Gibraltar  
Model: G-1442 Ultra Shallow Mount Bollard (R5)  
Product Rating: M40 – P2

October 29, 2019

To whom it may concern:

This letter is to certify that the subject barrier, the model G-1442 Ultra Shallow Mount Bollard (R5) provided by Gibraltar, was tested to the requirements of the ASTM standard F-2656-15. This was the standardized Test Method for Vehicle Crash Testing of Perimeter Barriers, at the time the barrier test was performed.

The test was performed at Calspan Corporation, on October 29, 2019. The Gibraltar, G-1442 Ultra Shallow Mount Bollard (R5) was impacted by a truck weighing 6806 kg (15,005 lbs.) travelling at 64.1 kph (39.8 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, were stopped at 3.146 meters and 3.175 meters respectively, after the trailing edge (reference line) 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 F2656-15, is M40 – P2.

Calspan is accredited to ISO 17025 to perform ASTM F2656-15 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 "Zachary Reisdorf".

Zachary Reisdorf

Test Director

*Safer Highways...Safer Skies*