



February 19, 2014

To whom it may concern:

This letter is to certify that the subject barrier, **The Barrier1 Set and Pour Fixed Bollard provided by Barrier1 Systems, Inc., was tested to the requirements of the ASTM standard F-2656-07, Standard Test Method for Vehicle Crash Testing of Perimeter Barriers, in place at the date of the test.**

The test was performed at Calspan Corporation on February 4, 2014. **The barrier was impacted by a truck weighing 6767.7 kg (14920 lbs.) travelling at 80.97 kph (50.3 mph).** Post measurements of the test vehicle's payload (truck bed) with respect to the trailing edge of the fixed bollard show that the left leading edge of the test vehicle's bed did dynamically cross the one meter line by 236 mm. 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 – P2**

Calspan is accredited to ISO 17025 to perform ASTM F2656-07 testing by the Laboratory Accreditation Bureau under Certificate Number L-2332.

Respectfully,

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

Edward Dutton

Senior Test Engineer

Safer Highways...Safer Skies