



4455 Genesee Street  
Buffalo, New York 14225  
February 25, 2013

To whom it may concern:

This letter is to certify that the subject barrier, the Barrier1 Shallow Foundation Modular Bollard System, 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 13, 2013. The barrier was impacted by a truck weighing 6760.9 kg (14905 lbs.) travelling at 51.3 kph (31.9 mph). Based on the truck mass, impact velocity and penetration into the protected zone, the barrier rating per the ASTM standard F-2656-07 is M30 – P1.

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