



May 12, 2015

To whom it may concern:

This letter is to certify that the subject barrier, active Horizontal Crash Beam also referred to as **active Horizontal Cable Barrier (HCB), Ground Retractable, with clear span of 15'-10" 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 when test was performed.**

The test was performed at Calspan Corporation on April 21, 2015. **The barrier was impacted by a truck weighing 6831.2 kg (15,060 lbs.) travelling at 82.03 kph (50.97 mph).** Post-test measurements of the dynamic movement of the test vehicle's payload (truck bed) with respect to the trailing edge of the gate show that the left and right leading edge of the truck bed passed the one meter intrusion line by 1852 mm and 1847 mm respectively, but was stopped short of the seven meter intrusion line by 4148 mm and 4153 mm, 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-P2.**

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



May 12, 2015

To whom it may concern:

This letter is to certify that the subject barrier, Active Horizontal Crash Beam also referred to as **active Horizontal Cable Barrier (HCB), Ground Retractable, with clear span of 47'-10"** 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 when test was performed.

The test was performed at Calspan Corporation on April 30, 2015. **The barrier was impacted by a truck weighing 6892.4 kg (15,195 lbs.) travelling at 80.95 kph (50.30 mph).** Post-test measurements of the dynamic movement of the test vehicle's payload (truck bed) with respect to the trailing edge of the gate show that the left and right leading edge of the truck bed passed the one meter intrusion line by 4454 mm and 4465 mm respectively, but was stopped short of the seven meter intrusion line by 1546 mm and 1535 mm, 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-P2.**

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". The signature is written in a cursive, flowing style.

Edward Dutton
Test Director

Safer Highways...Safer Skies