



Calspan Test No.: BR0107
Test Standard: ASTM F2656-20
Impact Condition Designation: M30
Client: Reliance Foundry
Model: R-1030-M30-SM Bollard
Product Rating: M30 – P1

February 18, 2022

To whom it may concern:

This letter is to certify that the subject barrier, the R-1030-M30-SM Bollard provided by Reliance Foundry, was tested to the requirements of the ASTM standard F2656-20, with M30 impact condition designation. This was the standardized Test Method for Vehicle Crash Testing of Perimeter Barriers, at the time the barrier test was performed.

Testing performed at Calspan Corporation, on February 16, 2022, for Reliance Foundry. The Reliance Foundry, R-1030-M30-SM Bollard was impacted by a medium duty truck, weighing 6,790 kg (14,965 lbs.) travelling at 45.7 kph (28.4 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 -2.591 meters and -2.616 meters respectively, before the leading edge (reference line) of the impacted test article. As such, based on the test vehicle mass, impact velocity and penetration into the protected zone, the barrier rating per the ASTM standard F2656-20, is M30 – P1.

Calspan accredited to ISO/IEC 17025:2017 to perform ASTM F2656-20 testing by Perry Johnson Laboratories Accreditation, Inc. (PJLA) under Certificate Number L18-546-R2 and Accreditation Number 76654.

Respectfully,

A handwritten signature in blue ink that reads "David Casey".

David Casey

Test Director

Safer Highways...Safer Skies