

TTCI Report FI 16-12

TTCI Report FI 16-12 corresponding to the test conducted on August 28, 2012 consisted of an official AAR TTCI impact test going through the full gamut according to AAR impact guidelines S-810.

From the Report:

“The test was conducted according to the standard AAR impact series of 4 – 6 – 6 MPH in the forward direction (direction of headlights) and 6 MPH in reverse. All impacts were into an anvil string with a minimum weight of 250,000 pounds. An inspection of all chocks and vehicles were made following each impact. In addition, the VEQ recommended higher impact series was conducted at 6 – 7 – 8 – 9 MPH in the forward direction and 8 – 9 MPH in the reverse direction. These higher impacts used an anvil string with a minimum weight of 500,000 pounds.”



Conclusion from the Test:

“The very low profile design of Holland chock system provided a minimum of 2 inches clearance from all component parts (except tires) of the vehicles used in the test. The Holland chock system performed very well during the standard AAR 4 – 6 – 6 MPH forward and 6 MPH reverse impact series and during the higher speed impacts of 6 – 7 – 8 – 9 MPH forward and 8 – 9 MPH reverse. There were no broken securement systems, no visible damage to the autorack and no visible damage to the vehicles. The Holland chock system contained the vehicles within the securement system.”

Additional remark regarding the Tri-Lo system included in the report:
“This concept provides a very low profile design and excellent vehicle clearance.”

Investigative Feasibility Study – TTCI Report FI 19-13

TTCI Report FI 19-13 contains the impact results from an investigative feasibility study conducted on October 1st and 2nd of 2013.

The purpose of this study was to assess the feasibility of tri-level dedicated securement systems for use in bi-level applications – for the securement of large vehicles such as trucks, vans, and SUVs.

By taking into account the results from both reports it is shown that the Tri-Lo Securement System is superior for tri-level applications, and is best suited to those applications.