



Spettabile
MECCANICA FADINI s.n.c.
Via Mantova, 177/A
37053 - Cerea (VR) ITALY
Attention: Mr. Andrea Fadini

Rome, March 31, 2016

On March 30, 2016 AISICO S.r.L. Crash Test Laboratory performed a test, based on the Reference Standard **IWA 14-1:2013**, **PAS 68:2013** and **ASTM F2656-15** on the **TALOS M50 bollard**.

TALOS M50, is a single retractable bollard, has received an impact rating of N3C test level for the IWA 14-1:2013 standard, an impact rating of N3 Test Level for PAS 68:2013 standard and an impact rating of C750 Test Level for ASTM F2656-15 standard. In all test levels the nominal impact speed was 80 km/h.

Description of damages:

- Test Vehicle: TALOS M50 bollard completely disabled test vehicle, deformed vehicle cabin causing severe damages to the chassis and drivetrain. The maximum penetration was recorded dynamically on the vehicle driver's side and it was 9.8 m.
- Active Bollard: TALOS M50 bollard sustained minor damages during the impact. The bollard foundation no shifted, but the impact caused a bollard rotation of 5.0° in the direction of vehicle travel. The bollard restrain and deflect the vehicle and after the impact and TALOS M50 was operational.

Classification of performances of TALOS M50 single retractable bollard is:

- IWA 14 - 1:2013 standard: **IWA 14-1:2013 Retractable bollard V/7200 (N3C)/80/90:9.8**
- PAS 68:2013 standard: **PAS68:2013 Retractable bollard V/7500(N3)/80/90:9.8/9.5**
- ASTM F2656-15 standard: **Barrier Rating C750 - Penetration Rating P3**

Complete information relating to the test can be found in Test Report # IWA/003/16 and DVD serial number IWA/003/16 issued by AISICO S.r.L. Crash Test Laboratory, including test conditions, test vehicle information, test article specifications and manufacturer drawings.

This letter should not be considered as complete documentation of this test without Test Report and DVD data.

AISICO Crash Test Laboratory Director
Eng. Stefano Calamani