Dipl. Ing. Achim Schmitz

Helmond, 09 April 2013

Phone: Fax:

Mobile:

Mail:

+31 492 700 791

+31 88 866 8866 +31 6 3103 6228

achim. schmitz@tt-automotive.eu

TÜV Rheinland TNO Automotive International B.V. Steenovenweg 1b • NL-5708 HN Helmond

B.V.B.A. PANACHE Klappijstraat 112

B-3294 Molenstede

Belgium

Subject: Sign Post 'Metro Bollard'

Our reference: 090413-asm

Dear Mr. Wolters.

Referring to your email request of March 20, 2013 I can inform you as follows.

Impact Recovery Systems, San Antonio, Texas, USA, represented in Europe by B.V.B.A. PANACHE, Belgium, ordered a crash test on the product Sign Post Type 'Metro Bollard' according to the European Standard EN 12767:2007. This test was carried out by the accredited laboratory TÜV Rheinland TNO Automotive International (TTAI) in Helmond for testing of road furniture on February 27, 2012 (test report 12.TR.034/DJ).

The product mentioned above was tested according to the clause in EN 12767 '5.6 Non-harmful support structures', meaning that the product shall cause only minor damage when hit by a passenger car at a speed of 100 kph. The requirement is that the difference between impact speed and exit speed shall not be more than 3 kph.

The product mentioned above fulfils this requirement and therefore has the classification 100,NE,4. However, being classified in the NE category, the clause in EN 12767 '5.5.2 Product families' states that a product family may be declared for the tested item and all smaller members of the family for which technical data has been provided, with the same speed class, energy absorption category and occupant safety level as the tested item.

This means that all similar products as the Sign Post Type 'Metro Bollard', having a length less than or equal to 0.965m above the ground, having a mass less than or equal to 4.3kg and having a center of gravity less than or equal to 0.37m above the ground, shall have the classification 100,NE,4.

We hope that this answered your question.

Sincerely,

TÜV Rheinland TNO Automotive International B.V.

Achim Schmitz Managing Director TÜV Rheinland TNO
Automotive International B.V.

Steenovenweg 1b

NL-5708 HN Helmond

Phone +31 492 700 791
Fax +31 88 866 8866
Management Board
Gijs de Rijk (Chairman)
Achim Schmitz

KvK 17214164

Tax Number NL8186.93.113.B01