

## Interim Acceptance for Safety Barrier Product

**Product:** X-350 End Terminal System (all variants)

**Safety Barrier - Permanent**

**Expiry Date:** 30 June 2013

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The X-350 End Terminal system, comprising timber and steel post, single sided and median variants, has been tested in accordance with NCHRP Report 350 and is considered to comply with the required evaluation criteria for Test Level 3 (TL-3) (refer FHWA letters CC-91 and CC-102). The system has been used in New Zealand for over 5 years.

This interim acceptance, pending update of the NZ Transport Agency's M23 Specification for Road Safety Barrier Systems, is to confirm acceptance by the NZ Transport Agency of the X-350 End Terminal system for use on the state highway network in the following configurations:

- single-sided, installation height of 690mm (X-350), breakaway timber or steel posts;
- single-sided, installation height of 790mm (X-350:31), breakaway steel posts only;
- median (double-sided), installation height of 690mm (X-350 Median), breakaway timber or steel posts;
- median (double-sided), installation height of 790mm (X-350:31 Median) breakaway steel posts only

### Product Identification



X-350 End Terminal (timber post, 690mm H)



X-350:31 End Terminal (steel post, 790mm H)



X-350 End Terminal (Median variant)

## **Conditions of Use**

The X-350 End Terminal system (all variants) must be installed and maintained in accordance with the product installation/maintenance manual and relevant NZ Transport Agency specifications. NZ Transport Agency specifications and standards shall prevail where there is discrepancy between the product manual(s) and the NZ Transport Agency specifications and standards.

Installers must ensure that they are familiar with relevant conditions, requirements and limitations of the system, particularly with regard to the appropriate length of need, minimum installation length and test deflection. Vehicle impacts that vary from the NCHRP Report 350 impact conditions may result in significantly different results than those experienced in testing.

The X-350 End Terminal barrier system (all variants) has been evaluated in accordance with the Test Level 3 criteria presented in NCHRP Report 350 under the following test conditions:

- 820kg small car impacting at angles between 0° and 20° and a nominal speed of 100kph;
- 2,000kg pick-up truck impacting at angles between 0° and 25° and a nominal speed of 100kph

A copy of this Interim Acceptance Letter must be appended to the Installation Manual.

## **Expiry of Acceptance**

This acceptance expires on 30 June 2013 and replaces any previous acceptance.

New installations of the X-350 End Terminal system (all variants) must not be deployed on the state highway network after the expiry date of acceptance unless a further period of acceptance is granted or the product has been formally included in the NZ Transport Agency M23 Specification for Road Safety Barrier Systems, in which case the M23 specification would replace this interim acceptance.

The NZ Transport Agency reserves the right to rescind or modify, at any time, acceptance of the X-350 End Terminal system (all variants).

**Authorised by the National Traffic and Safety Manager**