

Product ID: 8250-3-3-4 Initiation Date: August 2006 Revision Date: October 22, 2020

Product Evaluation

RE: <u>Dent Breakaway Bolt for Sign Posts</u>

PRODUCT

The Dent Breakaway Bolt is manufactured by Dent Breakaway Industries Incorporated located in Buckeye, Arizona and distributed by Alberta Traffic Supply and Frontier Fence located in Edmonton, Alberta. Web site: http://dentbreakaway.com/

VENDOR CLAIMS AND INFORMATION

CLAIMS

The reduced section of the Dent Breakaway Bolt provides reliable and predictable impact performance and also provides the strength to resist the wind load on most sign sizes.

DESCRIPTION

The Dent Breakaway Bolt was introduced in the fall of 1995 as a breakaway bolt for supports. The reduced section of the bolt provides reliable and predictable impact performance and strength to resist wind loads. This reduced bolt section lead to the bolt being tested and approved as fully compliant with NCHRP Report 350, including the omni directional criteria in October 1996.

POTENTIAL USAGE

The Dent Breakaway Bolt can be used for new installations, repairs or retrofits.

STANDARDS

NCHRP Report 350 – Crash Tested FHWA approved, Test Level 3

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has used breakaway ground mounted posts similar to the Dent Breakaway Bolt. I-Beam and Breakaway Ground Mounted Bases Steel I-beam Posts are included in the typical drawing for sign installation in the Department's Traffic Control Standards Manual (TEB 1.82 and TEB 1.83).

APPLICABLE STANDARDS

The Alberta Infrastructure and Transportation Specification for Breakaway Steel Sign Posts is as follows:

Standard Specification for Highway Construction 5.18 Supply of Permanent Highway Signs, Posts and Bases and Specification 7.7, Permanent Highway Signing.

RECOMMENDATIONS

AB-9407 Rapid Flashing Beacon be listed as a Proven Product under Alberta Transportation Products List, Signs and Supports – Specialized Applications, Warning Signs – Proprietary, based on the information provided.

Classification: Public



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TRIAL PROJECTS

Roundabout at Junction HWY 39:10 and Hwy 60:02 East of Calmar

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Hal Cook

Classification: Public