

Product Evaluation

RE: Review of Kleen Break Model 425 Sign Post Coupler (Breakaway System)

PRODUCT

The Kleen Break Model 425 Sign Post Coupler is manufactured by Xcessories Squared Development & Manufacturing Inc., located in Auburn, Illinois, the authorized distributor is USB Industries located in Coquitlam, British Columbia.

VENDOR CLAIMS AND INFORMATION

CLAIMS

The Kleen Break Model 425 Sign Post Coupler components are all re-usable after impact except for the shear bolt which must be replaced. The Kleen Break system allows for 360⁰ indexing for proper sign orientation after anchoring portion is permanently set. . Product Web site: <http://www.x-sqrd.com/>

DESCRIPTION

The Kleen Break Model 425 Sign Post Coupler consists of two ductile iron components, a top half and a bottom half joined together with a 5/8" – 11 UNC shear bolt using a lock washer, flange nut and a 80 durometer rubber bushing.

POTENTIAL USAGE

The Kleen Break Model 425 Sign Post Coupler reusable feature after being impacted reduces re-installation time, replacement costs and labor.

STANDARDS

The Kleen Break Model 425 Sign Post Coupler has been crash tested as per NCHRP 350 protocol.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has used breakaway ground mounted posts. I-Beam and Breakaway Ground Mounted Bases Steel I-Beam Posts are included in the typical drawing for sign installation in the Highway Guide and Information Sign Manual (TCS-A4-310 and TCS-A4-315).

APPLICABLE STANDARDS

The Alberta 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

Kleen Break Model 425 Sign Post Coupler be listed as a Proven Product under Alberta Transportation Products List, Signs and Supports – Supports – Breakaway – Proprietary, based on the information provided.

TRIAL PROJECTS

Intersection of Hwy 55 and Hwy 892

Joe Filice

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