

## **Product Evaluation**

### **RE: Review of REACT 350 System Crash Cushions**

#### **PRODUCT**

REACT 350 System Crash Cushions are manufactured by Quixote Corporation, Energy Absorption Systems located in Chicago, Illinois and distributed by Alberta Traffic Supply of Edmonton, Alberta.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS:**

REACT 350 System has successfully passed the NCHRP 350 NCHRP 350, Test Levels 1, 2 and 3 criteria (based on the number of cylinders) as redirective, non-gating crash cushions. Product Web link: [http://energyabsorption.com/products/products\\_react350\\_wide.asp](http://energyabsorption.com/products/products_react350_wide.asp)

##### **DESCRIPTION:**

The REACT 350 System consists of “smart plastic” cylinders made of high molecular weight, high density polyethylene plastic that are arranged to shield rigid hazards. REACT 350 refers to a family of reusable crash cushions made up from arrays of cylinders that have the ability to recover a major portion of their shape, position and capabilities after being impacted.

##### **POTENTIAL USAGE:**

REACT 350 System Crash Cushion will continue to perform after multiple design impacts, typically regaining up to 90% of its original shape and capacity without maintenance or repair of major components after most design impacts.

##### **STANDARDS:**

REACT 350 System meets NCHRP Report 350 Level 1, 2 & 3.

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation has no experience with this system.

##### **APPLICATION STANDARDS:**

Alberta Transportation does not have a standard for crash attenuators

##### **RECOMMENDATIONS:**

REACT 350 System Crash Cushion be listed as a Potential Product under Alberta Transportation Products List, Highway Safety Devices – Impact Attenuators – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

**Note:** Conformance to the Roadside Design Guide is required.

#### **TRIAL PROJECTS**

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow  
Richard Chow/Bill Kenny/Jim Gavin