COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3420-12

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 614.07.02.00

FOR INTERNAL CDOT USE

Material code description full name: Impact Attenuator

PART 1

Product name: REACT 350 II	Product category: Roadway Safety\Crash Cushion\Impact Attenuator, Permanent
Product representative (name & address): Attn: Roger Egan Interwest Safety Supply, Inc. 195 S. Navajo St. Denver, CO 80223 Phone: (303) 733-8447 FAX: (303) 733-8664	Manufacturer (name & address): Attn: Tony Scheidt Energy Absorption Systems, Inc. 70 W. Madison Suite 2300 Chicago, IL 60602 Phone: (312) 705-8424 FAX: (312) 467-9625
Web-site address: www.iwsafety.com	Web-site address: www.energyabsorptionsystems.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
The REACT 350 II is a highly efficient reusable crash cushion that features 6 High Molecular Weight/High Density Polyethylene (HMW/HDPE) cylinders attached to a steel base track. The system is NCHRP 350 Test Level 3 compliant as a redirective, non-gating crash cushion. The REACT 350 II has proven self-restoring characteristics after being impacted at 62 mph by a 1,808 lb car or by a 4409 lb pick-up truck. The REACT 350 II can be used to shield narrow hazards of up to 3 feet wide. The REACT 350 II is 21 feet 2 3/4 inches long, 3 feet 10 3/4 inches wide at the back-up structure, and 4 feet 3 1/2 inches high.

Restrictions, (installation and/or use):
It cannot be used to shield hazards wider than 3 feet.

Use of the product, (be specific to CDOT highway activities only):
It should be used in locations where it is highly likely that impacts will occur since it is highly reusable after each impact.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
The REACT 350 II is an upgrade over the original REACT 350 which has been an approved crash cushion by CDOT for many years. Through utilization of cylinders with various wall thicknesses, the REACT 350 II has achieved the high speed approval of 62 mph or Test Level 3 with only 6 cylinders rather than 9 cylinders in the original system. This reduces its overall length by more than 9 feet which reduces the likelihood of an impact taking place. The REACT 350 II can withstand multiple hits without requiring routine maintenance which lessens liability to CDOT.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- [x] CDOT : Standard Specifications, Section 614
- [ ] ASTM :
- [ ] AASHTO :
- [x] FHWA : NCHRP 350, Test Level 3
- [ ] other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- [ ] NTPEP-AASHTO :
- [x] FHWA : FHWA Letter of Acceptance, [HSSD/CC-26J] (August 16, 2011)
- [x] other : E-TECH Testing Services (November 2010)
- [ ] other :

State DOT Approvals, (current documentation required):

Sample submitted: [ ] yes [x] no [ ] n/a | Materials Safety Data Sheets (MSDS): [ ] yes [x] no [ ] n/a

Notes/Additional Comments
New release which many states will allow as an approved product due to the original REACT 350 being approved.