COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3076-11

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

Material code: 630.07.01.00

FOR INTERNAL CDOT USE

Material code description full name: Traffic Zone, Barrier (Temp.)

PART 1

Product name: ACZ-350

Product category: Traffic Control\Traffic Barrier, Temporary\N/A

Product representative (name & address):
Attn: Roger N. Egan
Interwest Safety Supply, Inc.
195 South Navajo Street
Denver, CO 80223
Phone: (303) 733-8447 FAX: (303) 733-8664

Manufacturer (name & address):
Attn:
Energy Absorption Systems, Inc.
35 East Wacker Drive
Chicago, IL 60601
Phone: (312) 467-6750 FAX: (312) 467-9625

Web-site address: www.energyabsorption.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
The ACZ-350 is a guardrail end treatment with an overall length of 31' 7", width of 22", and height of 33". It consists of a steel transition section which attaches to a concrete or steel barrier end, 4 water-filled plastic sections, and a steel nose section at the front. The rear 2 water filled plastic sections are equipped with internal steel frames as well as external side-mounted steel laminated straps, whereas the front 2 water filled sections do not have these steel members. All 4 water filled sections are equipped with external top-mounted steel stiffeners. The 4 water filled sections are identical profiles to Triton Barrier, an approved product within CDOT for many years. The ends of each water filled section are constructed with knuckles that interlock with those of other sections. The end knuckles are vertically aligned to accept a steel connecting pin. The pin securely joins the sections and the top steel stiffener for maximum impact protection. The ACZ-350 is supplied in work zone safety yellow.

Restrictions, (installation and/or use):

Use of the product, (be specific to CDOT highway activities only):
The ACZ-350 is intended to be used in the work zone as a temporary guardrail end treatment to protect the ends of concrete or steel barrier.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
The ACZ-350 requires no roadway anchors during installation. Hence, it can be installed much quicker and easier than other guardrail end treatments. Its narrow width makes it ideal for applications where lateral space limitations prevent the usage of wider end treatments such as sand barrel arrays. Since the ACZ-350 requires no roadway anchors, it can be quickly and easily moved during various phases of the construction project which saves time and money. The unique design of the ACZ-350 protects errant vehicles from impacting concrete or steel barrier ends, and also contains errant vehicles from vaulting into the work zone.

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

- ☐ CDOT :
- ☐ ASTM :
- ☐ AASHTO :
- ☒ FHWA : NCHRP 350, TL-3
- ☐ other :

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

- ☐ NTPEP-AASHTO :
- ☒ FHWA : FHWA Letter of Acceptance HSSD/CC-47D (February 13, 2009)
- ☒ other : E-TECH Testing Serves, Inc. (December 2008)
- ☐ other :

State DOT Approvals, (current documentation required):

Sample submitted: ☐ yes ☒ no ☐ n/a | Materials Safety Data Sheets (MSDS): ☐ yes ☒ no ☐ n/a

Notes/Additional Comments
A sample ACZ-350 could be made available if CDOT requires it to evaluate the product completely.