COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3689-15

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: ArmorZone

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

Product representative (name & address):
Attn: Tony Smiley
Lindsay Transportation Solutions / Barrier Systems
180 River Road
Rio Vista, CA 94571
Phone: (707) 374-6800 FAX: (707) 374-6801
Web-site address: www.barriersystemsinc.com

Manufacturer (name & address):
Attn: Jaime Franco
Lindsay Transportation Solutions / Barrier Systems
180 River Road
Rio Vista, CA 94571
Phone: (707) 374-6800 FAX: (707) 374-6801
Web-site address: www.barriersystemsinc.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

The ArmorZone Portable Barrier System is a water-filled longitudinal barrier tested to MASH Test Level 2 with an integral crash cushion tested to NCHRP Report 350 TL-2. It is comprised of roto molded one piece HD polyethylene units joined together using steel connector pins. The barrier is ideal for low speed construction zones and it has a 17" wide narrow foot print, ideal for narrow median or where space is limited. It can be used as its own gating end treatment tested to NCHRP 350 TL-2 with the addition of a single ArmorZone End Treatment element. The end treatment is the only unit not filled with water and is connected directly to the ArmorZone barrier which negates the need to shield or flare the ends of the barrier.

Physical Specifications: Module Length is 79", Width is 18", Height is 34", Module Weight Empty is 128 lbs.

Restrictions, (installation and/or use):

If weather conditions are below 32°F an additive can be used to stop the water from freezing.

Use of the product, (be specific to CDOT highway activities only):

Anywhere positive work zone barrier protection is needed in temporary construction sites and other miscellaneous roadside activities.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):

ArmorZone is lightweight and easy to deploy and remove without heavy machinery at a rate of 120 meters/hour (400 ft/hr). It can be deployed in curves with a radius as low as 28 meters (92'). Stabilized HDPE modules are strong enough to absorb some nuisance impacts without repair.

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

- [x] CDOT : Standard Specifications Section 630.07, 630.08
- [x] ASTM : A-36, A-123
- [ ] AASHTO :
- [x] FHWA : MASH TL-2, NCHRP Report 350 TL-2
- [ ] other :

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

- [ ] NTPEP-AASHTO :
- [x] FHWA : Acceptance Letter, HSST/B-223 and HSST/CC-119 (August 22, 2011)
- [x] other : Safe Technologies, Inc. Crash Test Service (January 2011)
- [x] other : Certificate of Verification (11-02-2015)

State DOT Approvals, (current documentation required):

Tennessee

Sample submitted: [ ] yes [x] no [ ] n/a

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

Notes/Additional Comments