COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3522-12

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

Material code: 630.06.04.00

FOR INTERNAL CDOT USE

Material code description full name: Traffic Zone, Channelizing Device

PART 1

Product name: Tuff Curb XLP

Product category: TC\Channelizing Device\Longitudinal Channelizing Device

Product representative (name & address):
Attn: Amanda Kingery
Impact Recovery Systems
4955 Stout Drive
San Antonio, TX 78219
Phone: (210) 736-4477 FAX: (210) 734-6448

Manufacturer (name & address):
Attn: Amanda Kingery
Impact Recovery Systems
4955 Stout Drive
San Antonio, TX 78219
Phone: (210) 736-4477 FAX: (210) 734-6448

Web-site address: impactrecovery.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
Tuff Curb XLP is a low profile traffic separator curb made from High Density Polyethylene Plastic. It is designed to withstand the effects of high speed, high impact applications and can withstand 20,000 lbs. of static force from a single wheel. Each segment is 40" long, 8" wide, and 2" tall and weighs approximately 6.5 lbs. The Tuff Curb XLP System uses our uniquely designed spring loaded uprights that are available in 36", 42" and 48" heights. Panel uprights vary from 8" to 12" wide and may be up to 48" tall. Curved reflectors of yellow, white, and red exceed ASTM D 4280 minimum reflectance levels.

Restrictions, (installation and/or use):
Three anchors are required when vehicle speeds are expected to be 45mph or greater. Curb should always be used with posts and/or panels.

Use of the product, (be specific to CDOT highway activities only):
Channelization of traffic on freeways, for acceleration lanes, bike lanes, HOV/HOT lanes, bridge decks, parking structure decks.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Each curb comes standard with curved reflectors, available in different color choices, that exceed ASTM D4280 minimum reflectance levels, at no additional charge. Impact Recovery Systems also has the largest variety of flexible traffic devices available. Tuff Curb XLP is more visible than all competitive curbs because of the upright and reflectors every 40" resulting in a continuous reflective line at night. The patented quick release "pull pin" installs uprights in 5 seconds or less and does not require any special tools. Each curb section weighs 6.5 lbs., which offers a savings in freight costs.

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

- ☐ CDOT :
- ☒ ASTM : D 4280
- ☒ AASHTO : MASH 2009
- ☒ FHWA : Acceptance Letters: WZ-304 (June 21, 2011), WZ-317 (May 24, 2012)
- ☒ other : MUTCD 2009, Section 6F.71 & 6F.72

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : TTI (March 14, 2011)
- ☐ other :

State DOT Approvals, (current documentation required):
CA, ID, IA, ME, NY, PA

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

Notes/Additional Comments