COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2955-12

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

Material code: 608.02.03.00

FOR INTERNAL CDOT USE

Material code description full name: ADA Truncated Dome

PART 1

Product name: USA Safety Domes Wet Set Panels

Product category: Pedestrian Safety\ADA Truncated Dome\Embedded

Product representative (name & address):
Attn: Marla Christie
USA Safety Domes
6035 E. 76th Ave. Unit F
Commerce City, CO 80022
Phone: (303) 227-1444 FAX:

Manufacturer (name & address):
Attn: Marla Christie
USA Safety Domes
6035 E. 76th Ave. Unit F
Commerce City, CO 80022
Phone: (303) 227-1444 FAX:

Web-site address: www.usasafetydomes.com

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

USA Safety Domes Wet Set Panels are manufactured to the highest standard of ADA specifications for use in freshly poured concrete curb ramps. We manufacture our panels from a non-porous resin MMA (Methyl Methacrylate), aggregate, and other materials. MMA resin is water and weather resistant and can be cleaned with a pressure washer if needed. . The base of the domes are 1.4" in diameter with the top of the dome measuring 0.7" in diameter. There is 2.4" inch distance from center of dome to center of adjacent dome. Domes are created with a height of 0.2" from the base with a 30 degree elevation in order for wheelchairs and snowplows to easily traverse the panels without damage to domes or equipment. Our panels are installed into the wet concrete with our anchor system which allows panels to be replaced if necessary. Slip resistance (C1028) exceeds required specs at a coefficient of 1.196 dry and 1.13 wet. Compressive strength (C109) is 14,750 psi, tensile strength (D638) 2,700 psi, flexural strength (D790) 5,900 psi and impact strength (D3763) 3,775 lbs/in.

Restrictions, (installation and/or use):

The wet-set panels are only for use in freshly poured concrete ramps and should be installed per manufacturer's instructions.

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

Panels are installed on curb ramps and transit platforms per Section 4.29 of the ADAAG.

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

Our products are designed to withstand extreme weather and physical impact and are much more durable than other products on the market reducing the life cycle cost since they will not need to be replaced when installed properly. They also comply with the ADA guidelines to provide a visual contrast in color whereas other panels do not always maintain initial color contrast. Assistance animals will be able to cross the panels safely due to our panels maintaining a surface temperature 20°-30°F cooler than some competitors' panels in hot weather. USA Safety Domes also creates custom sizes and shapes (including arcs) to create uniform dome pattern and reduce man hours at job site.

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

- [x] CDOT : Section 608
- [x] ASTM : C 09; D 790; D 3763; C 1028; D 635
- [ ] AASHTO :
- [ ] FHWA :
- [x] other : ADAAG 4.29.2

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

- [ ] NTPEP-AASHTO :
- [ ] FHWA :
- [x] other : Plastics Technology Laboratories, Inc. (4/10-11/2008)
- [x] other : PSI (4/25/2008)

State DOT Approvals, (current documentation required):

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

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

Notes/Additional Comments