COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

Reference No. 2672-04

Materials Laboratory
Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222

PART 1: Completed by Product Representative
PART 2: Completed by CDOT Product Evaluation Coordinator
PART 3: Completed by CDOT Expert Product Evaluator
PART 4: Completed by CDOT Materials Engineer

PART 1

Product name: Armor-Tile Tactile/Detectable Warning Systems

Product category: TC\Pedestrian Safety\ADA Truncated Dome

Product representative (name & address):
Engineered Plastics, Inc. {Ron O'Neill}
300 International Dr.., Suite 100
Williamsville, NY 14221
Phone: (800) 682-2525 FAX: (800) 769-4463

Manufacturer (name & address):
Engineered Plastics, Inc.
300 International Dr., Suite 100
Williamsville, NY 14221
Phone: (800) 682-2525 FAX: (800) 769-4463

Description of product, (be precise, include product differentiation between your products &/or competitor's products):
Armor-Tile products include: Cast-in-Place, Modular Paver, and Surface Applied, with all parts and accessories. The principal features are: "Diamond hard" vitrified polymer composite, with high wear resistance; Extremely slip resistant, wet or dry; High density, non-porous material for freeze/thaw resistance and ease of maintenance; High impact resistance; Audible detection component; Chemical and stain resistant surface; UV stable weather resistant composite with color throughout the tile matrix; Enhanced design of detectable warning surface to provide a safer, more accessible walking surface for all disability groups. Compressive Strength (D 695): 24,322 psi. Flexural Strength (C 293): 27,112 psi. Static Coefficient of Friction (C 1028): 0.81. Visual ID: 13 points on each dome top.

Usage of product, (be specific to CDOT highway activities only):
Detectable warning products for curb ramps, vehicular ways, pedestrian crossings, etc. For CDOT application, Surface Applied tiles may be used for retrofit only when selected by the project engineer.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Cities are required to meet the Americans with Disability Act U.S. Access Board Design Criteria and Armor-Tile has been ranked the most detectable and most durable product available in independent government evaluations, and the lowest cost installed of any product available as a result of the Cast-in-Place (Direct Embedment) design. The only complete detectable warning and wayfinding solutions for the visually impaired.

Specifications, (identify specifically those applicable) **& Certificate of Compliance** (submittal required):

- ☐ CDOT :
- ■ ASTM : C 241, C 501, C 1028, C 373, D 256, D 2299
- ☐ AASHTO:
- ☐ FHWA :
- ■ other : ADAAG, U.S. Access Board, US Department of Transportation

Product testing, (national/independent laboratories) **& Certified Test Report** (submittal required):

- ☐ NTPEP-AASHTO:
- ☐ HITEC or FHWA :
- ☐ FHWA or other :
- ■ other : Crain & Associates, Inc.

State DOT Approvals, (current documentation required):
Arkansas, California, Oregon, Wisconsin

Evaluation Procedure, (recommended):
Water absorption, Slip resistance, Impact resistance, Compressive strength, Abrasion and Fire resistance, Accelerated weathering resistance

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

Notes/Additional Comments
1) Cast-In-Place tiles: used singularly; standard sizes - 1'x1', 2'x1', 2'x2', 2'x3', 2'x4', 2'x5', 3'x4', 3'x5'
2) Modular Pavers: placed in interlocking construction; filled with high strength polymeric concrete; stardard sizes - same as CIP tiles
3) Surface Applied tiles: secured with concealed mechanical fasteners and structural adhesive; standard sizes - same as CIP tiles

Manufacturer's Web-site address: www.armor-tile.com

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