COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

Reference No. 2640-04

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: EVP (Engineered Vinyl Products) Walls

Product category: Environmental\Sound Wall\Reflective

Product representative (name & address):
Engineered Vinyl Products {Michael Katz}
11401 West 44th Avenue
Wheatridge, CO 80034
Phone: (303) 668-7034 FAX: (303) 423-7449

Manufacturer (name & address):
Royal Sierra Extrusions {Gorden Case}
900 Waltham Way
McCarran , NV, USA, 89434
Phone: (775) 343-7773 FAX: (775) 343-7761

Description of product, (be precise, include product differentiation between your products &/or competitor's products):
EVP Walls are a reflective sound wall system consisting of steel and concrete reinforced vinyl posts and steel reinforced tongue/groove vinyl rails . The posts are set into 16 inch diameter concrete caissons. The post design allows up to a 30 degree angle for each wall segment with no stress. There are multiple colors to choose from white, tan, sand, gray. Royal Sierra provides a standard 20 year warranty on all of their vinyl products. The EVP Walls reflective sound wall system can be adapted to fit on existing Jersey barriers and block retaining walls. The Sound Transmission Class, STC, has a value of 25.

Usage of product, (be specific to CDOT highway activities only):
Anywhere a sound wall is required along major highways and roadways to abate sound transmission to commercial and/or residential areas.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
The EVP Walls reflective wall system is maintenance free, has aesthetics for long term environmental beauty, is durable, has a 20 year warranty on the Royal Sierra vinyl materials and has a lower cost than competitive products . The EVP Walls reflective sound wall system is easily repaired, will not splinter on impact and is graffiti resistant . The wind load rating is "Exposure C" at 90 mph.

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

- ☐ CDOT :
- ■ ASTM : E 413-87 Sound Transmission Class Rating. (ASTM minimum volume requirements met at 125 Hz and above.)
- ☐ AASHTO:
- ☐ FHWA :
- ■ other : ASCE standard, Minimum Design Loads for Buildings and Other Structures (ASCE 7-95),Class C, 90 mph

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

- ☐ NTPEP-AASHTO:
- ☐ HITEC or FHWA :
- ☐ FHWA or other :
- ■ other : Western Electro - Acoustic Laboratory

State DOT Approvals, (current documentation required):

Evaluation Procedure, (recommended):
Review submitted tests and evaluation results. Prototype reflective sound wall sections can be installed for additional evaluations.

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

Notes/Additional Comments
All Royal Sierra vinyl products are fire resistant and would require a constant source of ignition to cause the product to melt. This is important in situations where the products are installed where wild fires could occur. There are several examples of walls already installed in the local Colorado area.

Manufacturer's Web-site address: www.evpwall.com

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