COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3512-12

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

Material code: 607.02.02.00

FOR INTERNAL CDOT USE

Material code description full name: Wall, Sound

PART 1

Product name:	Product category:
Quilite Noise Barrier System	Environmental\Sound Wall\Absorptive
Product representative (name & address): Attn: Kevin Sharp Clear Solutions Noise Barriers, LLC. 1 Technology Dr., Suite J729 Irvine, CA 92618 Phone: (714) 328-1610 FAX: (714) 889-6699	Manufacturer (name & address): Attn: Kevin Sharp Clear Solutions Noise Barriers, LLC. 1 Technology Dr., Suite J729 Irvine, CA 92618 Phone: (714) 328-1610 FAX: (714) 889-6699
Web-site address: www.clearsolutionsnb.com	Web-site address: www.clearsolutionsnb.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
QUILITE Noise Barrier System is a modular, post / panel system. The panels are fabricated of polycarbonate plastic mounted in a steel frame and attached to posts manufactured of steel, concrete or composites. Posts are sized to resist wind load and seismic loads. QUILITE Noise Barriers have the appearance of glass block, permit diffuse visibility of landscape though the block, are light weight (6 lbs per sq ft), are very strong (withstand 30g acceration at 30 Hz = 180 lbs per sq ft wind load), and operate over a broad temperature range (+200° F to -38° F) without significant change in material strength. Noise Reduction Coefficient (NRC) of 0.65.

Restrictions, (installation and/or use):
Not to be used as a crash barrier.

Use of the product, (be specific to CDOT highway activities only):
QUILITE is designed for use as new, free-standing walls along highways and bridges, and for extending the height of existing walls.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
The system is designed to provide excellent aesthetics combined with excellent noise reduction. It requires virtually no maintenance, are installed fast (2,500 sq ft per 8 hour shift with a 3-man crew), are re-locatable, and can be supplied as a portable wall. Allows light to transmit through the wall improving the quality of life for those living close to the wall by not blocking sunlight while decreasing noise.

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

- ☐ CDOT :
- ☒ ASTM : E 84; E 90-90; C 423-90a
- ☐ AASHTO :
- ☐ FHWA :
- ☒ other : MIL-F-8261A (USAF) = ASTM -6-21; AB01-110

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : Western Electro - Acoustic Laboratory (8-10-1994) (2-03-1995) (9-05-2001); Veneklasen Associates (1-19-2000)
- ☒ other : Merrill K. Goulding & Assoc., Inc. (2-05-1997) (9-04-1997)

State DOT Approvals, (current documentation required):
California

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

Notes/Additional Comments
The product was previous submitted and approved (Ref. #2352-02). This submission is to note ownership change and address change. Samples and documentation have been previously submitted for approval. No changes to manufacturing method or product used to manufacture.