

Product Evaluation

Product ID: 8252-2
Initiation Date: January 2007
Revision Date: February 2007
Expiry Date: February 2010

RE: Review of Durisol Noise Barrier System (Sound Absorption Wall and Transparent Panels)

PRODUCT

The Durisol Noise Barrier System is manufactured and distributed by Durisol International Corporation located in Hamilton, Ontario.

VENDOR CLAIMS AND INFORMATION

CLAIMS

The Durisol material which is used in the noise barrier system was first invented in Switzerland. The development of this material was made possible through the creation of a unique treatment process that allowed raw wood fibre to be bonded with Portland cement. The Durisol material contains no toxic ingredients, can be molded into any shape, and is light weight, thermally insulating, non-combustible, insect proof and sound absorptive. Product Web Link: <http://www.durisol.com/>

DESCRIPTION

Durisol is a proprietary cement bonded wood fibre material. It is composed of specially graded recycled waste wood (100% clean, natural softwood lumber) that is neutralized and mineralized and then bonded together with Portland cement. The Durisol Noise Barrier System is essentially a post and panel system. Vertical posts are anchored to the ground using caissons, driven piles, poured footings or structures. All panels span horizontally between the posts and rest directly on the footings. Post spacing up to 24 feet (7.3m) and wall heights over 35 feet (10.7m) have been constructed.

POTENTIAL USAGE

The Durisol Noise Barrier System is designed and manufactured to be used in areas that require sound attenuation. Durisol products are installed throughout North America, Europe, Asia and Africa for over 60 years. They have successfully withstood hot and humid climates, freezing and thawing, termites, fungus and fire without loss of performance or significant surface damage.

STANDARDS

CSA Z107.9 Standard for Certification of Noise Barriers

ALBERTA INFRASTRUCTURE and TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Infrastructure and Transportation has no experience with this product

APPLICABLE STANDARDS

Alberta Infrastructure and Transportation have no specifications for sound attenuation.

RECOMMENDATIONS:

Durisol Noise Barrier System be listed as a Potential Product under Alberta Infrastructure and Transportation Products List, Sound Attenuation Wall Systems – Proprietary, based on the information provided.

Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow
 Richard Chow/Wing Choy/Bill Kenny/Jim Gavin