

Product Evaluation

RE: Review of Forster Noise Barrier Elements

PRODUCT

Forster Noise Barrier Elements is manufactured by Forster Noise Protection & Metals Fabrication and distributed by KCI Kraft Consulting Incorporated located in Surrey, British Columbia.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Forster Noise Barrier system benefits are; long service life; 100% recycling (all aluminum and steel components); zero maintenance; wide range of accessories and simple to install. Forster Noise Barrier stability requirements need to withstand specified wind loads as well as pressure, and pull and drag loads. Product Web Link: <http://www.forster.at/Noise-control.250.0.html?&L=2>

DESCRIPTION

Forster Noise Barrier elements are available as reflecting, single or double sided noise absorbing panels and transparent panels made of acrylic glass or single or multi-pane safety glass. The tongue and groove design of the panel ensures high structural stability against wind and snow loads. The body of the Forster Noise Barrier consists of high grade aluminum alloy, seawater-proof, synthetic polyester powder coating. The absorption unit consists of mineral wool plate (specific weight 100 kg/m³), weather-proof and UV-proof glass mating; double sided panel includes a vibrated concrete partition.

POTENTIAL USAGE

Forster Noise Barrier system is durable, has low maintenance, is cost effective, and quick and easy to install. Forster Noise Barrier system is normally inserted into steel columns of standard size HE 160, spaced at up to 5 meters along unobstructed ground. The panels are placed on a concrete foundation and can be freely combined, making them easy to remove in an emergency.

STANDARDS

EN14388; EN1793 (acoustic performance); EN 1794 (non-acoustic performance).

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product

APPLICABLE STANDARDS

Alberta Transportation has no specifications for sound attenuation, however **sound walls are to be installed outside the clear zone or beyond barrier operational maximum deflection and zone intrusion.**

RECOMMENDATIONS:

Forster Noise Barrier be listed as a Potential Product under Alberta 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

Rishi Adhikari
cc Innovation Evaluation Group – Roger Skirrow
Clayton Matwychuk
Hal Cook