

## Product Evaluation

### RE: Review of Friendly Earth Concrete Fence (Sound Absorption Wall)

#### PRODUCT

Friendly Earth Concrete Fence is manufactured and distributed by Friendly Earth Building Products located in Calgary, Alberta.

### **VENDOR CLAIMS AND INFORMATION**

#### CLAIMS

The Friendly Earth Concrete Fence is a concrete sound barrier. The Friendly Earth Concrete Fence sound barrier support system is fully engineered installation with a minimum service life of 50 years. Product Web Link: <http://www.friendlyearth.com/>

#### DESCRIPTION

Friendly Earth Concrete Fence is manufactured in a state of the art manufacturing facility to provide a minimum 50 year design life. The Friendly Earth concrete sound barrier height ranges from 1 to 5 meters with post spacing of 2 meters. The Friendly Earth system incorporates a notch panel integration system which allows uniform panel thickness over the height of the fence providing consistent sound abatement. The concrete compressive strength is 4000 psi and capable of withstanding 120km/h wind load.

#### POTENTIAL USAGE

The Friendly Earth Concrete Fence is designed and manufactured to be used in areas that require sound attenuation. Friendly Earth products have been installed throughout British Columbia and Alberta since 2004. The Friendly Earth system is easy to install, fireproof, low maintenance and incorporates an anti-graffiti sealant.

#### STANDARDS

ASTM C666	Freeze Thaw
ASTM C672	Salt Scaling
ASTM C457	Air Void

### **ALBERTA TRANSPORTATION COMMENTS**

#### EXPERIENCE

Alberta Transportation has no experience with this product

#### APPLICABLE STANDARDS

Alberta Transportation have no specifications for sound attenuation.

#### RECOMMENDATIONS:

Friendly Earth Concrete Fencing 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.

#### Caveats:

A site-specific structural design based on geotechnical information and concrete requirements shall be performed for each individual project and application.

Design drawings and construction specifications shall be sealed and signed by a Professional Engineer registered in Alberta.

System must be outside Clear zone.

**TRIAL PROJECTS**

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