

## Product Evaluation

### RE: Review of Flex MSE Green Wall Vegetated Wall System

#### **PRODUCT**

The Flex MSE Green Wall Vegetated Wall System is manufactured and distributed by Trexiana Wholesale and Distribution Limited located in Surrey, British Columbia.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS:**

The Flex MSE Green Wall System is a versatile engineered system suitable for erosion control and MSE wall applications. The Flex MSE Green Wall System utilizes Flex MSE bags and Flex MSE plates to create strong structures capable of accepting a wide variety of plants in order to create aesthetically pleasing and eco-friendly vegetated results. The flex MSE system combines proven modular construction methods with an innovative interlocking plate. Product web link: <http://www.flexmse.com/>

##### **DESCRIPTION:**

The Flex MSE Green Wall System consists of Flex MSE Bags and Flex MSE Plates:

- Flex MSE Bags are made of non-woven geotextile material which is water and root permeable with the ability to retain the fill material. The bags are filled with 70% sand and 30% organic soil.
- Flex MSE Plates are made from recycled polypropylene; these are placed between bags to provide an interlocking connection, bridging each bag to create a strong cohesive structure. The Flex MSE plates feature creep resistance design and grid hooks to provide positive mechanical connection to geogrid for backfill reinforcement.

##### **POTENTIAL USAGE:**

Flex MSE Green Wall System are easy to construct, transport, requires no footing or forms and is flexible. The Flex MSE injection moulded polypropylene plate is highly resistant to acids, bases and chemicals, has very good fatigue resistance and excellent uniformity.

##### **STANDARDS:**

ASTM D4355 UV Exposure  
ASTM D4751, D4491 Drainage and Filtration  
ASTM D4595, D5262 Reinforcement  
ASTM D4523, D4833 Long Term Design (survivability)

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation has no experience with this product.

##### **APPLICATION STANDARDS:**

Alberta Transportation has no standard for the FLEX MSE wall system.

##### **RECOMMENDATIONS:**

The Flex MSE Green Wall System be listed as a Trial Product under Alberta Transportation Product List, Earth Retaining Systems – Reinforced Soil System (Wall) – Proprietary, based on the information provided. Final acceptance as a proven product will be based of field performance.

#### **TRIAL PROJECTS**

Fred Cheng

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