ANY SHAPE. ANY ANGLE. ANY ENVIRONMENT.

For Erosion Control, Retaining Walls, Highways and Waterways

www.FlexMSE.com

SIMPLICITY, ADAPTABILITY, AND LONGEVITY

Flex MSE is a Patented engineered solution for vegetated retaining walls and erosion control.

Flex MSE Bags and Interlocking Plates are used to build naturally resilient Geomodular structures.

A unique soft building material which exhibits hard material qualities, Flex MSE adapts to events that would ruin lesser systems, and only gets stronger and greener as time goes on.

Flex MSE is a Patented system which leverages Mechanically Stabilized Earth (MSE) principles along with geotextile technology to create strong and easy to install Geomodular block structures.

10m (33ft) tall municipal roadway

Economical

Eco friendly

Permanent

Aesthetically Pleasing

75 Year Warranty

BUILDING WITH FLEX MSE

Flex MSE is one of the easiest systems on the market to install, vegetate and maintain.

Flex MSE Bags are:

- Filled with sand and organics
- An ideal 'planter block' for many types of vegetation
- Water and root permeable
- Flexible enough to create almost any contour or angle

Flex MSE Plates are:

- Made from 100% recycled material
- Designed to bridge the gap between Bags to create an interlocking mechanical connection
- Engineered with Friction Strips for greater Bag to Bag mechanical connection and Geogrid hooks to connect to soil reinforcement

5m (16ft) tall landscape retaining wall

The Flex MSE Vegetated Wall system provides the strength of interlocking components without the need for concrete, rebar, wire mesh or other formwork.

APPLICATIONS AND USES

Civil Infrastructure

Slope Repairs (shallow and reinforced)
Retaining Walls
Highway Walls
Bridge Abutments
Noise Barriers
Levees/Dikes

Commercial and Residential

Large Landscaping Walls
Garden Walls
Site Levelling and Optimization
Golf Courses and Parks

Anywhere Land Meets Water

Culverts and Pump Stations
Streambank Protection
Riverbank Protection
Coastal Protection
Channel Linings
Detention/Retention Ponds and Reservoirs
Irrigation Canals, Ditches

Emergency Use

Permanent Flood Protection Walls
Wind and Storm Protection Walls
Blast Walls and Bunkers

FLEX MSE ADVANTAGES

1

Flex MSE cuts installation times.

Flex MSE walls install in ⅔ to ½ of the time of conventional walls.

2

Flex MSE is lightweight and easy to transport.

93m2 (1000ft2) of unfilled Flex MSE ships on a single pallet.

3

Flex MSE is cost effective.

The all-in costs for a Flex MSE wall are generally 40-50% less than other systems. Savings in machine, labor, material and transportation costs make Flex MSE an obvious choice for helping generate project cost savings.

4

Flex MSE walls are easy to construct.

DIY'ers to professional contractors can install Flex MSE using our simple installation methods.

5

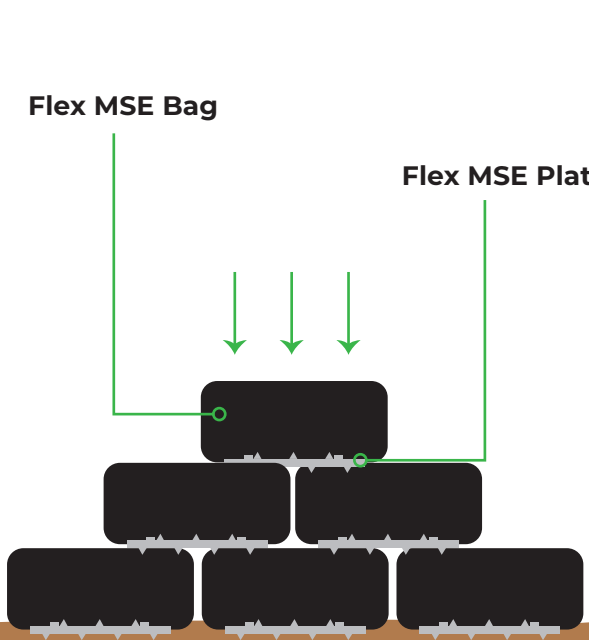
Flex MSE is ideal for a wide variety of applications.

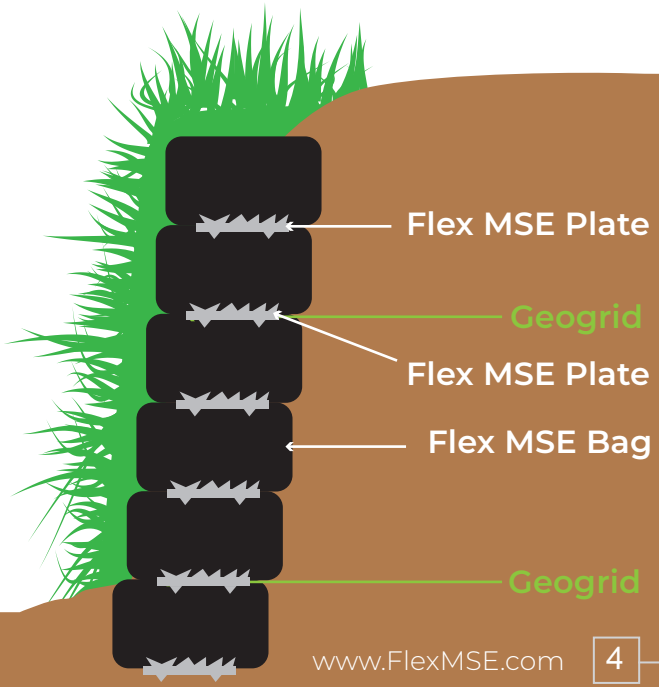
Flex MSE works seamlessly with utilities and landforms and integrates perfectly with other building materials and systems.

6

Longevity

With Flex MSE's 120 year design life and 75 year warranty, lifetime costs can be ¼ of conventional systems.





INSTALLATION AND VEGETATION

INSTALLATION

- Place Flex MSE Plates 760mm (30”) apart in a shallow, relatively level trench.
- Center a Flex MSE Bag on top of each Plate, laid end to end.
- Place a single Flex MSE Plate over each Bag joint, in a 1:1 ratio.
- Lay each row of Bags squarely over the Flex MSE Plates, creating an offset ‘running bond’ pattern. Plates should be completely covered.
- Tamp or lightly compact the Bags to create a level course.
- Place and compact backfill every two courses or as required.
- Repeat this process until the desired height is reached, adding reinforcement as required.
- When using Geogrid, the Flex MSE Plate’s Patented Grid Hooks secure geogrid at the select layers.

VEGETATION

- A key advantage of Flex MSE is its ability to accept almost all types of vegetation over 100% of the face.
- Vegetation can include grasses, ground covers, flowers, vines, and small shrubs.
- Hydroseeding, live planting and live staking are examples of vegetation methods that work well with the Flex MSE system.

5m (16ft) tall commercial retaining wall

FLEX MSE SYSTEM COMPONENT SPECIFICATION

FLEX MSE PLATE

Flex MSE Interlocking Plates provide a positive mechanical connection between the Flex MSE Bags, effectively interlocking each and every Bag into one solid Unit. The Flex MSE Plate incorporates our Patented Friction Strips and two Geogrid Hooks per Plate.

Dimensions:

Height	42mm (1.65”)
Length	285mm (11.22”)
Width	99mm (3.90”)
Spikes	11
Hooks	2
Weight	63g (2.2oz)

FLEX MSE BAG

Flex MSE Geomodular Bags provide the ideal planter block for permanent vegetation. These Bags have a filtering functionality to prevent soil particle seepage while permitting water and roots to pass.

Dimensions:

Unfilled:

Width	380mm (15”)
Length	890mm (35”)

Filled:

Width	300mm (12”)
Length	760mm (30”)
Height	140mm (5.5”)

TOLL FREE:
1-877-349-5945

FLEXMSE®

DISCLAIMER:

This information, including technical and engineering data, figures, tables, designs, details, suggested procedures, and suggested specifications, presented in this publication is for general information only. While every effort has been made to ensure its accuracy, this information should not be used or relied upon for any application without verification of accuracy, suitability, and applicability for the use contemplated, which is the sole responsibility of the user. A final, project specific design should be prepared by a qualified, licensed, professional engineer based on actual site conditions. Flex MSE disclaims any and all express or implied warranties of merchantability and fitness for any general or particular purpose, in regard to information or products contained or referred to herein. The Flex MSE system is subject to pending and registered patents worldwide.

Front cover: 5m (16ft) tall terraced residential slope
Back cover: 3m (10ft) tall, 500m (1,640ft) long residential wall