

The logo for FLEXMSE, featuring the word "FLEXMSE" in a bold, black, sans-serif font. The letter "M" is partially enclosed by a green, rounded rectangular shape that overlaps the letters "L" and "S".

FLEXMSE

The Ecological Solution

**For Erosion Control, Retaining Walls,
Highways and Waterways**

The logo for Advance Landscape Systems. It features a green square with a white diagonal line. To the right of the square, the word "Advance" is written in a large, bold, white sans-serif font. Below "Advance", the words "Landscape Systems" are written in a smaller, white sans-serif font. At the bottom, the tagline "Green your world™" is written in a green, cursive script font.

Advance
Landscape Systems
Green your world™

Simplicity, Adaptability, and Longevity

FlexMSE® is a Patented engineered solution for vegetated retaining walls and erosion control. FlexMSE® Bags and Interlocking Plates are used to build naturally resilient Geomodular structures. A unique soft building material which exhibits hard material qualities, FlexMSE® adapts to events that would ruin lesser systems, and only gets stronger and greener as time goes on. FlexMSE® 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.



Economical



Eco Friendly



Permanent



**Aesthetically
Pleasing**



**75 Year
Warranty**



Building with FlexMSE®

FlexMSE® is one of the easiest systems on the market to install, vegetate and maintain.



FlexMSE® 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

FlexMSE® 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.



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



Applications and Uses



Vegetated Culvert Headwalls



Riverbank Protection



Highway Walls & Slopes



Landscape & Development



Civil Infrastructure

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



Anywhere Land Meets Water

- Culverts and Pump Stations
- Stream Bank Protection
- River Bank Protection
- Coastal Protection
- Channel Linings
- Detention/Retention Ponds and Reservoirs
- Irrigation Canals, Ditches



Commercial and Residential

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



Emergency Use

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

FlexMSE® Advantages

1

FlexMSE® cuts installation times.

FlexMSE walls install in 2/3 to 1/2 of the time of conventional walls.

2

FlexMSE® is lightweight and easy to transport.

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

4

FlexMSE® walls are easy to construct.

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

3

FlexMSE® is cost effective.

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

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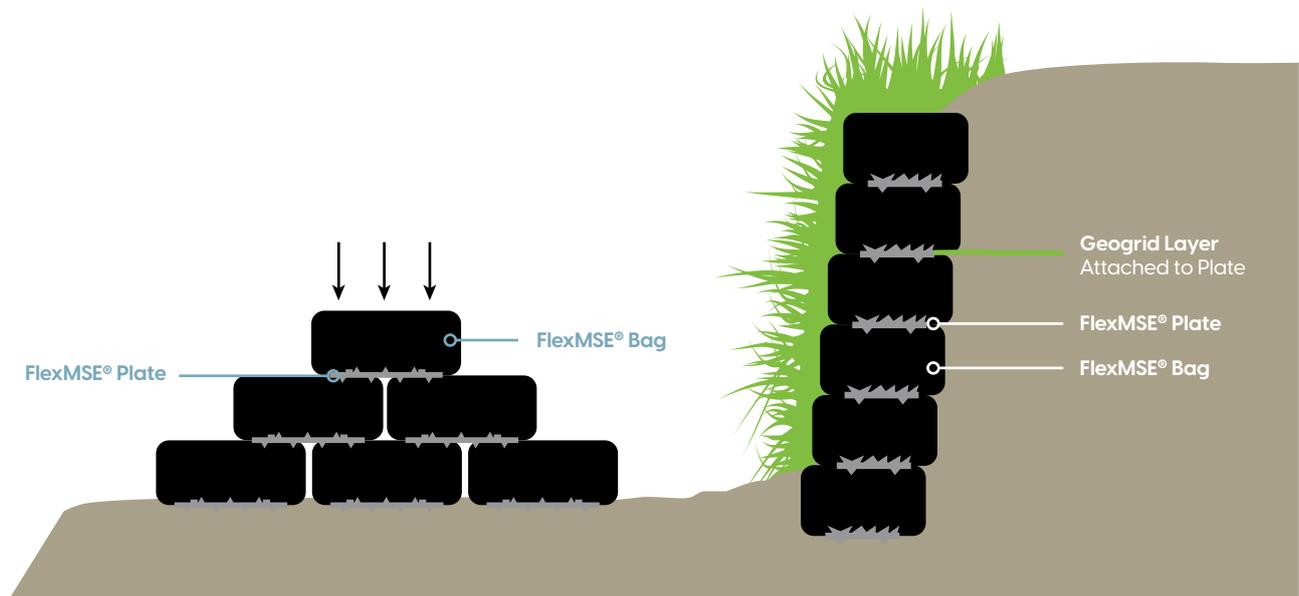
FlexMSE® is ideal for a wide variety of applications.

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

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Longevity

With FlexMSE's **75 year warranty**, lifetime costs can be 1/4 of conventional systems.



Installation and Vegetation

Installation

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

Vegetation

- A key advantage of FlexMSE 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 walls are examples of vegetation methods that work well with the FlexMSE system.



Beginning Construction



Underway



Applying Hydroseed



After Vegetation

FlexMSE® System Component Specification

FlexMSE® Plate

Provides a positive mechanical connection between the FlexMSE Bags, effectively interlocking each and every bag into one solid unit. The FlexMSE 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)



FlexMSE® Bag

FlexMSE Bags provide the ideal planter block for permanent vegetation. These Bags have a filtering functionality to prevent soil particle seepage while permitting.

Dimensions Unfilled:

Width	380mm
Length	890mm

Dimensions Filled:

Width	300mm
Length	600mm-650mm Dependent on compaction level.
Height	140mm





For further info or questions, contact:

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