



LANDTECH SOILS

Urban Greening Solutions

What is Flex MSE Geobag Walling System

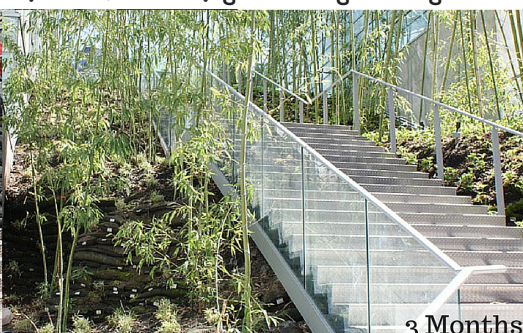
Flex MSE Vegetated Wall System uses the same globally accepted principles of Mechanically Stabilized Earth that builders rely on for making massive retaining walls. Geobag walls with less robust technology and components than Flex MSE have been built as high as 75ft tall, with great success. Our Second Generation interlocking Plate is a 100% recycled, recyclable component which adds increased geogrid compatibility and with a friction strength technological mechanic that beats other competitive substitutes.



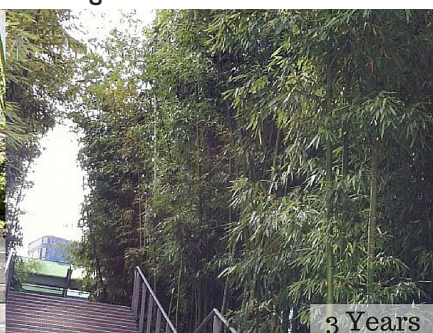
Flex MSE utilises a unique soft building material that exhibits hard material qualities. It weathers events that would ruin other systems, and only gets stronger and greener as time goes on.



LEED Silver Project - Bamboo Stairway



3 Months



3 Years

Product Benefits

Flex MSE is the ideal material for all retaining walls, erosion control or for stabilizing a slope for aqua banks.

- An innovative yet simple two component system that often installs in half the time of concrete block walls.
- No specialized equipment, labour, cranes, forms, footings, or rebar.
- Flex MSE lasts almost twice as long as concrete (120 year ASTM System Life rating).
- A light weight soft armour product that integrates easily with other proprietary systems and has great performance in limited access, tough or unstable terrain.

Working with other site materials.

- Flex MSE walls require minimal initial levelling or subgrade embedment.
- The flexible, easily adjusted units conform perfectly to site irregularities such as trees and unexpected bedrock.

Working with the environment

- Settlement and water ruin concrete walls. Flex MSE has a very high settlement tolerance and excess water drains through the system. The drainage aspect eliminates the need for chimney drains and pipe behind the wall, while feeding the vegetation.
- Flex MSE is a recycled, non-toxic product that conforms to LEED (Leadership in Energy and Environmental Design) qualifications. For applicable LEED credits, click here Flex MSE LEED credits.
- Flex MSE vegetated walls are graffiti proof.
- Flex MSE expends only 3% of the Green House Gases (GHGs) over comparably sized concrete blocks.

To request a copy of our Full Installation Guide please contact us through our website www.landtechsoils.ie

Flex MSE is a Green solution that installs faster, lasts longer, looks completely natural, and costs less. For a truly Green solution without the Green 'premium', choose Flex MSE for retaining walls, slope stabilization, erosion control, site reclamation, and 'Anywhere Land Meets Water'

Call us today to get a full quote for your project!

Find Out More At
www.landtechsoils.ie



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Flex MSE | Vegetated Retaining Walls & Slope Stabilization

Flex MSE Vegetated Retaining Walls is an aesthetically pleasing and environmentally friendly building material which provides an engineered solution many factors such as retaining walls, unique landscaping, habitat creation, erosion control, sediment control, land reclamation. Flex MSE provides all these applications for both commercial and private urban greening while meeting all loadbearing requirements on site regulations. When we compare the substitutes below it makes it clear that Flex MSE is most suitable option for modern large or small construction projects.



Large scale Vegetated Retaining Walls & Slope Stabilization

The Alternatives

1. A retaining wall made of poured concrete is expensive, time consuming and adds nothing to the environment, furthermore concrete often requires specialized equipment to construct such as heavy equipment and specialised personnel to install.
2. Concrete block systems go in cheaper than poured walls, but have common structural and finish issues.
3. When used for a vegetated retaining wall, basket systems require large amounts of very specific material and often don't provide thorough, sustained vegetation – resulting in premature corrosion and a shortened life span.
4. Wood systems have a short life span and due to the chemicals used in the wood preservation treatment process, treated timbers are difficult to dispose of at the end of use.

The Advantages of Flex MSE over the alternatives

Flex MSE's Vegetated Wall System has several advantages over conventional methods.

- Superior drainage and settlement tolerances make it perfect for areas with poor soils and water infiltration.
- Minimal excavation, light reinforcement, no forms, footings or rebar, and often no expensive drainage design.
- Light, permeable and flexible units are easily installed around trees, rock, and water.
- No more graffiti or wall staining, or failures from frost cycles and leaky soils.

A Vegetated Retaining Wall built with Flex MSE can be installed anywhere up to 82 degrees using the same two components. Flex MSE's versatility offers you the ability to build your wall according to the projects needs as they develop.

The added benefit of being able to construct a Flex MSE wall which follows the natural landscape or flows over land formations allows designers to build organic structures without having to rely on right-angle decisions.

Retaining walls often support structures or are used to create level building pads. Flex MSE is ideally suited for these applications given that it is as strong as concrete the day it goes in and only gets stronger over time as the root web from the vegetated face takes hold.

Flex MSE is used to build everything from small stream banks to massive roadways – providing permanent stability you can build on. For more information on Flex MSE for Vegetated Retaining Wall or Slope Stabilization please contact us.

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Flex MSE | Urban Greening Construction

Green Construction with Flex MSE can run from single installations to entire communities. Flex MSE projects are easily scaled for use in retaining walls, living walls, green sound barriers, trail systems, and stormwater structures. Green and Low Impact Development Communities as well as LEED standard projects benefit greatly from Flex MSE's environmental advantages.



FlexMSE - Native Plant Habitat Development with Landscaping Elements

FlexMSE | Water Sensitive Design & Low Impact Development plans

Flex MSE is an ideal system for integration into Water Sensitive Urban Design and Low Impact Development plans. Flex MSE reinforces green spaces, is 50% recycled content, repurposes excavated materials, is nontoxic and expends 3% of the Green House Gas (GHG) emissions of comparative concrete solutions.



FlexMSE - Infrastructural Site Development Hydro-seeded Retaining Walls

5 Years Later

With the current trend towards Green Construction for projects of all sizes it's good to know that Flex MSE uses 97% less GHG than concrete and can qualify for as many as 21 LEED credits in 4 distinct categories.

Flex MSE berms and walls also reduce sound pollution by absorbing reflective sound into the vegetated soils and all but eliminate graffiti concerns.



Aquatic Bird Habitat - LEED Gold site - 5 years

A further benefit of Flex MSE to Green Construction is that it is easy to install and has less impact on the health and welfare of the installation Team. Less opportunity for injuries and machinery breakdown allow for projects to complete on time and under budget. Flex MSE has all these benefits, while still being less expensive than hard armour systems – making it a very economical engineered Green solution.

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