

## **GREEN GRAVITY**

WALLS UK LTD

Manufacturers and distributers of the ECO-MSE Bag System

## TECHNICAL DATASHEET – ECO-MSE BAG

## DESCRIPTION

Green Gravity Walls' ECO-MSE geotextile bags are engineered to meet high-performance standards for retaining wall applications, erosion control, and soil stabilization.

Designed for strength, durability, and environmental resilience, these bags conform to rigorous international testing standards to ensure long-term reliability in civil engineering and landscaping projects.



Our 140 GSM geotextile bags are made from high-strength, non-biodegradable, and non-toxic materials, ensuring a 100-year design life. The material is resistant to UV degradation, chemical exposure, and biological decay, making it suitable for long-term applications.

Our ECO-MSE bags are tested in accordance with recognized industry standards to provide superior structural integrity and resistance to environmental stressors, ensuring their resistance to tensile forces, tearing, and puncturing in various environmental conditions.

The geotextile fabric of our ECO-MSE bags is designed to allow controlled water permeability, reducing hydrostatic pressure while maintaining soil stability. Tested to ISO 12956 (2020) for pore size and EN ISO 11058 (2019) for water flow rate, the material effectively filters out soil particles while permitting water drainage, preventing clogging and ensuring long-term performance in retaining wall and erosion control applications.



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## ECO-MSE Bag Conformance

Our ECO-MSE bags have been rigorously tested and conform to all of the following industry standards:

PROPERTY	TEST STANDARD	PURPOSE
Grab Tensile Strength	ASTM D4632 (2015)	Measures fabric strength under tensile load
Trapezoidal Tear Strength	ASTM D4533 (2015)	Evaluates resistance to tearing under stress
Puncture Resistance	ASTM D6241 (2014)	Determines ability to withstand puncturing
Mass Per Unit Area	ASTM D5261 (2018)	Ensures uniform material density and weight
Pore Size	EN ISO 12956 (2020)	Controls filtration, allowing water passage
Water Flow Rate	EN ISO 11058 (2019)	Regulates drainage to prevent hydrostatic pressure
Weathering Resistance	EN12224, EN 12226:2012	Assesses durability against UV and environmental exposure





