MELBERG INDUSTRIES

Innovative Erosion Control Products

Data for Comparison

The Erosion Control Panel (ECP) is a matrix-grid polypropylene panel offering optimum performance when used in stabilization conditions. Produced from first quality raw materials with a small mix of recycled material for environmental friendliness, the panels provide the perfect balance of strength and size capable of functioning exceptionally well in a wide range of performance requirements. The ECP resists ultraviolet resistance, rotting, biological degradation and it is chemically inert to any bases or acids. This data sheet for the ECP is provided for comparison purposes only.

TEST TYPE	TEST METHOD	MEASUREMENT	PROPERTY
Compressive Strength	ASTM D-695-15	53.9 psi	Rigid Plastic
Tensile Strength	ASTM D-638-14	1,390 psi	Tensile Strength
Compressive Strength	ASTM D-790-17	94.4 psi	Unreinforced/Reinforced Plastics & Insolation
16" Z-Axis Stress	ASTM D-695-15	10.7 psi	Compressive Rigid Plastics
32" Z-Axis Stress	ASTM D-638-14	25.6 psi	Tensile of Plastics
Single Shear Load	ASTM D-790-17	26.5 lb.	Unreinforced/Reinforced Plastics & Insolation
Connector Load	ASTM D-3044-16	629 lb.	Wood Based Structured Panels
Junction Strength	ASTM D-638	3,890 psi	General Engineering Practice
Diagonal Twist Load	ASTM D3044	5.78 lb.	General Engineering Practice
Buckling Force	ASTM D-695	123 lb.	General Engineering Practice
Flexural Strength	ASTM D-17	6,770 psi	Unreinforced/Reinforced Plastics & Insolation

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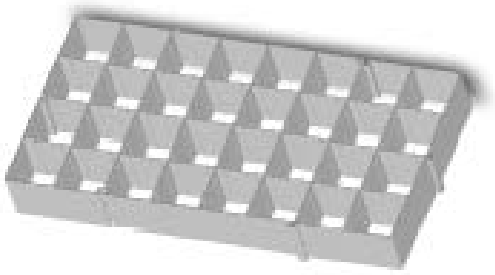
Product Overview

The Erosion Control Panel (ECP) is a patented erosion control and shoreline restoration product. The ECP stabilizes soils on shore-line embankments, creating a low-maintenance and structurally stable environment for long-term sustainability. The ECP is especially beneficial for non-cohesive granular in-fill materials. The ECP system minimizes erosion problems caused by water contact, surface flow and wave action.



At its core, the ECP has a cellular structure that improves resistance to erosion forces on steep, unstable ground or slopes exposed to severe hydraulic and mechanical stresses. The cellular confinement improves the performance of vegetated slopes by reinforcing root systems and directing hydraulic flows over the top of the cells. The cells therefore act as a series of small 'check dams', preventing formation rills and gullies. It dissipates energy throughout and underneath the cells and confines the fill materials within the cells.

Typical installation consists of two panel sections centered at the main water table elevation. This reinforces the upper soil layer and resists erosive conditions as well as sliding forces beyond the limits of other systems. The ECP provides a long-term solution with sustainable vegetation and permeable aggregate. During water fluctuations, it offers better resistance to soil loss caused by saturation. Studies show that the effectiveness of the ECP with established vegetation handles flow velocities up to 30 feet per second.

The ECP allows for affordable embankment maintenance as it stabilizes in-fill and controls shearing, lateral and vertical move-ments. The cell size allows for smaller, less expensive fill materials with poor physical properties to be used on steeper slopes. The open mesh design promotes dense grass growth, increases system stability, reduces visibility, and blends naturally with the environment.

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