

ScourStop® Transition Mats

ScourStop® Transition Mats are an engineered, proven, bio-technical alternative to traditional hard-armor systems. ScourStop® Transition Mats are manufactured of a semi-rigid HDPE. When combined with soft-armor soil cover and deep-soil earth anchors, the ScourStop® system mechanically protects soil from severe scour and erosion. The ScourStop® system offers greater protection than vegetation alone or rip rap and is lab-tested and field-proven to protect against considerably higher shear stresses and velocities. ScourStop® Transition Mats provide a permanent, low-maintenance solution with immediate, day-one protection and impact resistance over highly erosive areas such as stormwater outfalls, curb outfalls, overflow structures, drainage channels, levees, and shorelines. ScourStop® Transition Mats conform to the property values listed below:

PROPERTY	TEST METHOD	ENGLISH	METRIC
Properties			
Mass/Unit Area	ASTM D6566	0.942 lbs/ft ²	4.599 kg/m ²
Thickness	ASTM D6525	0.463 in	11.735 mm
Wide Width Tensile Strength	ASTM D4595	3053 lbs/ft	4.139 kN/m
Percent Open Area	Calculated	50 %	50 %
UV Stability	ASTM D4355	87 %	87 %
Manning's n	Calculated	0.039	0.039
Culvert Outfall Test Exit Velocity Discharge	Prototype	16 ft/sec	4.877 m/sec
Velocity Day 1 Performance Fully Vegetated	Flume Testing ASTM D6460	19 ft/sec	5.791 m/sec
Shear Day 1 Performance Fully Vegetated	Flume Testing ASTM D6460	13 lbs/ft ²	63.472 kg/m ²

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