

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

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