

SYNTEC PRODUCT SPECIFICATION

SYNTEC, LLC

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SYNTEC
 GEOSYNTHETICS EVOLVED

SCOURSHIELD

ScourShield is a flexible, heavy duty, three dimensional scour preventative, “Anchored Reinforced Vegetation System”. ScourShield provides better protection against scour generated from high shear stresses and velocities than conventional TRM's. ScourShield can replace other hard armour products such as rock riprap and articulated concrete blocks on shoreline areas subject to turbulent flow and erosive wave action. ScourShield works with conventional TRMs to further protect channel bottoms and bends as well as culvert outfalls.

TYPICAL APPLICATIONS:

- Shoreline Protection • Levees and Spillways • Channel Bottoms and Bends • Culvert Outfalls

Material Characteristics		Data				
UV Stabilized		HALS				
Color		Green				
Density	0.94 g/cm ³		0.94 g/cm ³			
Weight	3.6 lbs/sy		2.0 kg/m ²			
Physical Characteristics						
Thickness	0.25 in		6.3 mm			
Opening Size	0.25 in		6.3 mm			
Percent Open Area	25%		25%			
Roll Size - width x length	3.61' x 33'		1.1m x 10m			
Roll Weight	48 lbs		22 kg			
Mechanical Properties			MD	TD	MD	TD
Ultimate Tensile Strength			1500 lb/ft	1500 lb/ft	22 kN/m	22 kN/m
Hydraulic Properties ¹						
Velocity Reduction ²		Up to 74%				
Kinetic Energy Reduction ²		Up to 85%				
Penetrator Earth Anchor (PE)						
Length		9 inches				
Hex Head		3/4 inches				
Diameter - shaft		3/8 inches				
- screw		1 ¼ inches				

MD=Machine Direction; TD=Transverse Direction; Values above are typical values

Notes:

1. Based on test results with various velocities and volumes: high velocities and volumes produce higher energy reductions -T. Blench Hydraulics Laboratory, University of Alberta Department of Civil and Environmental Engineering, Edmonton, Alberta, Canada.
2. Percentage passing through perpendicular to the water flow depending on velocity and volume.

Values are subject to change without notice due to product modifications and/ or improvements at SYNTEC's discretion.