



ShoreMax™

ShoreMax Cost Analysis

Representation of a channel with a pipe outfall reinforced with one of two design options, a fully reinforced vegetated design utilizing North American Green Vmax³ C350 turf reinforcement mats and ShoreMax Soft Revetment / Scour Protection Mat, or a hard armor channel comprised of solely D50 6 in rock riprap. Note* Riprap and Vmax3 costs for Evansville, IN. cost will vary with location.

Site Information

Channel Dimensions: 10' x 300'
Project Bid: \$12 per sq yd

Soft Armor Material Costs

Staple Rate: 3.75 per sq yd
Staple Cost: \$ 0.04 Ea
Vmax³ Selling Price: \$4.00 per sq yd
ShoreMax Selling Price: \$125 per panel (6 panels total)
ShoreMax 12" Rebar Staples: \$1.40 per staple (40 total)

Hard Armor Material Costs

Riprap Deliver Cost: \$35.00 per ton
Cost of Fabric for Riprap: \$1.50 per sq yd

Labor Information

On Site Rate: 12 hours per day @ \$20 per hour
Men per Soft Armor Crew: 2 Ea
Men per Riprap Crew: 2 Ea

Installation Information

Vmax³ Installation Rate: 25 sq yd per man hr
ShoreMax Installation Rate: 4 Ea per man hr
Amount of Riprap: 166 ton
Equipment Hourly Rate: \$60 per hr
Riprap Installation Rate: 25 sq yd per man hr

	Vmax ³ C350 with ShoreMax Outlet	6 in Rock
Materials (& Equipment)	\$2188	\$7110
Labor	\$287	\$533
Total Installed Cost	\$2475	\$7643
POTENTIAL SAVINGS = \$5168 or 68% savings		

The soft armor solution of Vmax³ TRM and ShoreMax mat can deliver a **68% cost savings** compared to 6 in rock, while providing performance that is **7 times the shear resistance** of 6 in rock, all while **increasing productivity 86%**!



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