

**Project: Sconset
Group: A**

Case: 20130528- Riprap- 5.5'

Rubble Mound Revetment Design

Significant wave ht (Hs): 5.50 ft
 Significant wave period (Ts): 15.20 sec
 Cotan of nearshore slope (cot phi): 50.00
 Water depth at toe of revetment (ds): 7.00 ft
 Cotan of structure slope (cot theta): 1.50
 Unit weight of rock (wr): 165.00 ft
 Permeability coefficient (P): 0.10
 Damage level (S): 2.00
 Breaking criteria: 0.78

Stone Size Gradation

Armor Layer			Filter Layer		
Thickness:		5.71476 ft	Thickness:		1.42869 ft
% less than by weight	Weight	Dimension	% less than by weight	Weight	Dimension
	lb	ft		lb	ft
0 (min)	481.17	1.43	0 (min)	1.26	0.20
15	1539.74	2.11	15	2.12	0.23
50	3849.35	2.86	50	7.14	0.35
85	7544.73	3.58	85	24.06	0.53
100 (max)	15397.40	4.54	100 (max)	40.49	0.63

Irregular wave runup (ft)

Expected maximum:	11.67	ft	Conservative:	14.68	ft
Surf Parameter:	8.19				
CERC Stability Number:	1.22		Dutch Stability Number:	1.16	