



Coastal Construction Manual

FORMULA CALCULATOR

11.2 Design Flood Velocity

d_s:		Lower Bound V =	ft/sec
t:	1 sec	Upper Bound V =	ft/sec
g:	32.2 ft/sec ²	Extreme(tsunami) V =	ft/sec
Lower Bound V = d_s/t		Upper Bound V = (gd_s)^{0.5}	
		Extreme V = 2(gd_s)^{0.5}	

V = design flood velocity in ft/sec

d_s = design stillwater flood depth in feet

t = 1 sec

g = gravitational constant (32.2 ft/sec²)