



Coastal Construction Manual

FORMULA CALCULATOR

12.8 Combined Axial and Bending Stresses

f_c :		Combined Axial and Bending Stresses =	
F_c' :			
f_b :			
F_b :			
F_{cE} :			

$$(f_c/F_c')^2 + f_b/[F_b(1 - f_c/F_{cE})] \leq 1.0$$

f_c = actual compressive stress (lb/in²)

F_c' = allowable compressive stress (lb/in²)

f_b = actual bending stress (from Formula 12.9)

F_b = allowable bending stress (lb/in²)

F_{cE} = Euler-based buckling stress (lb/in²)