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Formula:  $MI \text{ for Solid Round Beams} = (\pi * (OD^4 - ID^4)) / 64.$   
Deflection =  $(\text{length}^3 * \text{force}) / (3 * E * MI)$  Bending Stress =  $(\text{force} * \text{length}) / (MI / (0.5 * \text{height}))$  Where, MI = Moment of Inertia. E = Modulus of Elasticity in psi.

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y footing  $A =$  area of foot  
Structural Design  $q_{net}$  Steel Beam Design: Moment  $M_n = F_y Z_x$   
 $M_a =$  allowable bending moment  $M_n =$  nominal moment  
strength  $\Omega_b = 1.67 =$  factor of safety for bending moment  $F_y =$

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yield stress  $Z_x =$  plastic section modulus about neutral axis  
Spread Footing Design =  $q_{\text{allowable}} - p_{\text{footing}} q$

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