Beam Loading Formulas

W = TL * TW

TL = DL + LL

R1=W*L/2

M=(WL^2)/8

Fb=Fy*.66

Sz=M/Fb

Ad=(L/360)

M=F*D

Af=TL/Sb

Variables

Ad = Allowable Deflection (Amount it can bend) - Must be in inches

Af = Area Footing

D = Distance

DL = Dead Load

TL = Total Load

F = Force

Fb = Allowable Bending Stress

Fy = Constant to calculate Fb (Pressure)

L = Length

LL = Live Load

M = Tendency of force to cause body to rotate around a point. (Force * Perpendicular Distance)

R1 = Reaction 1

R2 = Reaction 2

Sb = Soil Bearing Capacity

Sz = Sizing of section module required

TL = Total Load

TW = Tributary Width

W = Beam Loading (Applied force a specific area)

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