Cheatography

Civil Engineering Formulas Cheat Sheet by jg6 via cheatography.com/56191/cs/14908/

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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