

| Design Variables | |
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| Modulus of Elasticity (psi, N/mm ²) E = | 35000000.00 |
| Moment of Inertia (in ⁴ , mm ⁴) I = | 61.900 |
| Distance to Neutral Axis (in, mm) n = | 4.070 |
| Line Load (lb/in, N/mm) w = | 50.000 |
| Length (in, mm) L = | 25.000 |
| Length (in, mm) x = | 5.000 |
| Results | |
| Total Load (lb, N) W = | 1250.000 |
| Reaction RA (lbs, N) = | 468.750 |
| Reaction RB (lbs, N) = | 781.250 |
| Shear Load Vx (lbs, N) = | 218.750 |
| Shear Load @x = L Vmax (lbs, N) = | -781.250 |
| Moment Mb (lbs-in, N-mm) = | 3906.250 |
| Moment Mx (lbs-in, N-mm) = | 1718.750 |
| Moment @ x = (3/8)L Mmax (lbs-in, N-mm) = | 2197.266 |
| Moment @ x = L Mmax (lbs-in, N-mm) = | -3906.250 |
| Deflection @ x = 0.4215L ymax (in, mm) = | -4.8682e-5 |
| Deflection yx (in, mm) = | -3.3656e-5 |
| Slope thetaA (radian) = | -7.513e-6 |