

Civil Engineering Calculation

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Formula Used: Slope at free end = $PL^3 / 6EI$. Deflection at any section = $Px^2 (x^3 + 6L^2 - 4Lx) / 24EI$. Where, P is the externally applied load, E is the Elastic Modulus, I is the Area moment of Inertia, L is the Length of the beam and. x is the position of the load.

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CIVIL ENGINEERING FORMULAS . ABOUT THE AUTHOR Tyler G. Hicks, P.E., is a consulting engineer and a successful engineering book author. He has worked in plant design and operation in a variety of industries, taught at several engineering schools, and lectured both in the United States and abroad. Mr.

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Volume of plastering = $100 \times 0.02 = 2 \text{ m}^3$. Adding 20% to fill up the joints = $2 + 2 \times (20/100) = 2.4 \text{ m}^3$. Increasing 20% for dry volume = $2.4 + 2.4 \times (20/100)$ (30% can also be used) = 2.88 m^3 . approx 3 m^3 . For 1:6 cement mortar, Volume of cement = $3 / (1+6) = 0.43 \text{ m}^3$. Volume of sand = $3 - 0.43 = 2.57 \text{ m}^3$.

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