

Civil Engineering Calculation

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When one-off type calculations are needed, most civil engineers today turn to their electronic calculator, desktop or laptop computer and perform the necessary steps to obtain the solution desired. But where repetitive calculations are required, a purchased computer program will save time and energy in the usual medium-size or large civil-engineering design office.

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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.

~~List of All Civil Engineering Formulas—Easycalculation.com~~

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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~~Civil Engineering Formulas Book by Tyler G. Hicks~~

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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