

Civil Engineering Calculation

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CIVIL ENGINEERING FORMULAS . ABOUT THE AUTHOR

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Tyler G. Hicks, P.E., is a consulting engineer and a successful engi-neering 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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pipeline grade, horizontal alignment, or reduction in pipe size normally require anchors or thrust blocks to absorb any axial thrust of the pipeline.

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quantity in m³. aggregate quantity in m³. you easily find quantity of concrete using our calculator.

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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) =

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2.88 m³. approx 3 m³. For 1:6 cement mortar, Volume of cement = $3 / (1+6) = 0.43$ m³. Volume of sand = $3 - 0.43 = 2.57$ m³.

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