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W is equal to $(D^2 \times L) / 162$. D denotes the bars' diameter. L denotes the steel bars' whole length wherefore the weight must be computed. Like for example, in instance of calculating 20 mm steel bars' weight, the computation is made as $W = 20^2 / 162 = 2,466$ kg / meter.

Important Formulas in Civil Engineering | Unit Weight of

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f = friction factor. L = length of pipe, ft (m) D = diameter of pipe, ft (m) V = velocity of fluid, ft/s (m/s) g = acceleration due to gravity, 32.2 ft/s² (9.81 m/s²) Advertisements. Chezy Formula. This Equation holds good for head loss in conduits and gives good results for high Reynolds numbers: $V=C (RS)^{1/2}$.

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