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dead load $w = 1.0$ kip/ft and a live load consisting of three concentrated loads. The reaction at A due to the dead load equals the product of the area under the influence line for the reaction at A (Fig. 3.8b) and

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the uniform load q .

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They are worked up against specific formulas, which is why they need to be completed by a qualified Structural Engineer. The Structural Engineer must sign the report to make it valid. The layout of any structural calculation report will be different depending on who compiles it. However, in general, it should include: Structural elements (walls, beams, columns, etc.), including their size and design; Reinforcements, including the materials (concrete, steel or timber)

Structural Calculations Explained - Team Build Construction

PLTW, Inc. Engineering Formulas y footing A = area of foot Structural Design qnet Steel Beam Design: Moment $M_n = F_y Z_x$ M_a = allowable bending moment M_n = nominal moment strength $\phi_b = 1.67$ = factor of safety for bending moment F_y = yield stress Z_x = plastic section modulus about neutral axis Spread Footing Design = $q_{allowable} - p$ footing q

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q = heat transferred per unit time (W, Btu/hr) A = heat transfer area of the surface (m^2 , ft^2) h_c = convective heat transfer coefficient of the process ($W/(m^2 K)$ or $W/(m^2 o C)$, Btu/ ($ft^2 h...$

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