

## Basic Engineering Calculations For Contractors

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Carpet: Width of room x length of room, divided by 9 = number of square feet needed for room. Wood Siding: Width of board minus distance of lapping = coverage of wood siding per board. Width of area to be sided x height of area to be sided, divided by coverage calculated above = lineal feet of siding you need.

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Volume – volume calculations are used to determine the overall volume of a specific area that either needs to be filled or removed as part of a construction or remodeling activity. Volume calculations are completed by multiplying length x width x height.

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CONTINUOUS FOOTING at Front of Rear of House Loading on Continuous Footing: Roof load = 35 psf x ( 27' / 2 + 2') = 542.5 plf Wall Load = 16 psf x 8' = 128 plf Floor Load = Total Load = 670.5 plf Required Width of

Footing =  $670.5/1000 = 0.671'$  Use: 12" wide x 12" deep w/1-#4 rebar at top and bottom. FOUNDATION DESIGN.

### STRUCTURAL DESIGN CALCULATIONS

So 401' - 6 1/4" converts to 401.52. Then subtract 400.14 to find the grade change of 1.38'. To find the slope, divide the grade change of 1.38' by the distance of 30' to get a slope of .046 or 4.6%, which is less than the maximum of 5% allowed by code. So it works.

### Basic Math from Construction Knowledge.net

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### Basic Engineering Calculations for Contractors - August W ...

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