

GraniteCrete Math Sheet

- One cubic yard of GraniteCrete covers 108 square feet at a 3 inch depth.
- One cubic yard of GraniteCrete covers 82 square feet at a 4 inch depth.
- Calculation example for material amounts (**Pedestrian**) 1000 square feet by 3 feet wide: $1000 \times 3 = 3,000$ square feet $\times 0.25$ (**3 inches** is 0.25 of a foot) = 750 cubic feet divided by 27 (27 cubic feet in a cubic yard) = 28 cubic yards of decomposed granite. 28 cubic yards $\times 1.5$ (1 cubic yard decomposed granite equals 1.5 tons) = 42 Tons decomposed granite.
- Calculation example for material amounts (**Vehicular**) 1000 square feet by 3 feet wide: $1000 \times 3 = 3,000$ square feet $\times 0.33$ (**4 inches** is 0.33 of a foot) = 990 cubic feet divided by 27 = 37 cubic yards of decomposed granite = 55.5 Tons decomposed granite.
- Pedestrian Application – (3 bag mixture) The ratio for residential applications is 12.5:1 (19 units of DG to 1 unit of GraniteCrete, measured in volume).
- Vehicular Application - (3 bag mixture) The ratio for commercial applications is 12.5:1 (12.5 units of DG to 1 unit of GraniteCrete, measured in volume).
- Calculation: for computing exact amounts of decomposed granite or, Maximum Dry Density (127.5 pcf {pounds per cubic foot} with an optimum water content of 9.6% (as per our laboratory results): $127.5 \text{ pcf} \times 27$ (feet per cubic yard) = 3,442.5 pounds per cubic yard (decomposed granite and GC Admixture in a “compacted” cubic yard. 3,442.5 minus 255 lbs. (Three, 85 lb. sacks of GC Admixture) = 3,187.5 divided by 2,000 lbs. (pounds per ton) = 1.60 tons per cubic yard. For example: 20 cubic yards decomposed granite $\times 1.60$ equals 32 Tons.
- Permeability rate is 1.08 inches per hour.