

4.4 – CONCRETE

4" WALLS

STEP 1: Take the square footage of all wall area and subtract the square footage of all window and door openings.

STEP 2: Multiply by 0.333ft (the width of the cavity) to get the cubic feet of concrete required.

STEP 3: Divide by 27cf to determine the total number of yards of concrete required (or divide by 35.32 to determine meters of concrete required).

Example: 1845sf of wall area minus 322sf of window and door area equals 1523sf of net wall area. 1523sf times 0.333ft equals 507cf divided by 27cf per yard equals 18.8 yards of concrete required. Or divide 507cf by 35.32 for meters required. In this case, 14.4 meters.

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6.25" WALLS

STEP 1: Take the square footage of all wall area and subtract the square footage of all window and door openings.

STEP 2: Multiply by 0.521ft (the width of the cavity) to get the cubic feet of concrete required.

4.4 – CONCRETE CONTINUED

STEP 3: Divide by 27cf to determine the yards of concrete required (or divide by 35.32 to determine meters required).

Example: 1845sf of wall area minus 322sf of window and door are equals 1523sf of net wall area. 1523sf times 0.521ft equals 793cf divided by 27cf per yard equals 29.4 yards of concrete. Or divide 793cf by 35.32 for meters required. In this case, 22.5.

8" WALLS

STEP 1: Take the square footage of all wall area and subtract the square footage of all window and door openings.

STEP 2: Multiply by 0.667ft (the width of the cavity) to get the cubic feet of concrete required.

STEP 3: Divide by 27 to determine the yards of concrete required (or by 35.32 to determine meters required).

Example: 1845sf of wall area minus 322sf of window and door area equals 1523sf of net wall area. 1523sf times 0.667ft equals 1016cf divided by 27cf per yard equals 37.6 yards of concrete. Or divide 1016cf by 35.32 for meters required. In this case, 28.8.

4.4 – CONCRETE CONTINUED

10" WALLS

STEP 1: Take the square footage of all wall area and subtract the square footage of all window and door openings.

STEP 2: Multiply by 0.833ft (the width of the cavity) to get the cubic feet of concrete required.

STEP 3: Divide by 27cf to determine the total number of yards of concrete required (or by 35.32 to determine meters of concrete required).

Example: 1845sf of wall area minus 322sf of window and door area equals 1523sf of net wall area. 1523sf times 0.833ft equals 1269cf divided by 27cf per yard equals 47.0 yards of concrete required. Or divide 1269cf by 35.32 for meters required. In this case, 35.9 meters.

12" WALLS

STEP 1: Take the square footage of all wall area and subtract the square footage of all window and door openings.

STEP 2: Multiply by 1ft (the width of the cavity) to get the cubic feet of concrete required.

4.4 – CONCRETE CONTINUED

STEP 3: Divide by 27cf to determine the total number of yards of concrete required (or by 35.32 to determine meters of concrete required).

Example: 1845sf of wall area minus 322sf of window and door area equals 1523sf of net wall area. 1523sf times 1ft equals 1523cf divided by 27cf per yard equals 56.4 yards of concrete required. Or divide 1523cf by 35.32 for meters required. In this case, 43.1 meters.

ADD EXTRA CONCRETE FOR BRICK LEDGES

Multiply linear feet of Brick Ledge by 0.007 cubic yards or 0.005 meters to determine the additional yards or meters of concrete needed.

Example: 200lf of Brick Ledge would require 1.4 extra yards of concrete (200 linear feet x 0.007 = 1.4 yards).

4.4 – CONCRETE CONTINUED

ADD EXTRA CONCRETE FOR TAPER TOPS

Multiply linear feet of Taper Top by 0.003 cubic yards or cubic meters 0.002 to determine the additional yards or meter of concrete needed.

Example: 200lf of Taper Top forms would require an additional 0.6 yards of extra concrete (200lf x 0.003 = 0.6 yards).

ADD EXTRA CONCRETE FOR DOUBLE TAPER TOPS

Multiply linear feet of Double Taper Tops by 0.006 cubic yards or cubic meters 0.005 to determine the additional yards or meter of concrete needed.

Example: 200lf of Taper Top forms would require an additional 1.2 yards of extra concrete (200lf x 0.006 = 1.2 yards).

ALTERNATE METHOD FOR CALCULATING CONCRETE

An alternate method to calculate concrete is to use the chart below. Simply multiply the total number of forms by the appropriate multiplier to determine the cubic yards or cubic meters of concrete required.

4.4 – CONCRETE CONTINUED

Form Size	Cubic Yards per Form Unit	Cubic Meters per Form Unit
4"	0.066	0.050
6.25"	0.103	0.079
8"	0.132	0.100
10"	0.165	0.126
12"	0.198	0.151