



Georgia Masonry Supply Estimating Guide

Masonry Estimating Guidelines:

The Masonry Estimating Guide is a "rule of thumb" calculator intended to assist users in planning for the correct amount of materials required for a particular project. It is presented in table format below. **NOTE: Approximately 5% to 10% should be added to all quantities for breakage, spillage and errors.**

Georgia Masonry Supply makes no guarantees to the accuracy of any estimates based on the information provided in this guide, and takes no responsibility for its use.

To help you better understand the use of this guide, we have provided the following

example: If a mason needs to know how much block, mortar and sand must be purchased to erect a 20' long x 10' high wall, the Estimating Guide reveals that there are 1-1/8 blocks per square foot of wall area. The area is 200 SF, which requires 225 blocks (1-1/8 x 200 = 225 blocks). Three bags of mortar are estimated for every 100 block, therefore 6-3/4 bags of mortar are needed ((225 block x 3 bags mortar) / 100 block = 6-3/4 bags of mortar). One cubic yard of sand is required for every 7 bags of mortar, therefore, the mason must also purchase .96 yards of sand ((1 cubic yard of sand x 6-3/4 bags of mortar) / 7 bags mortar = .96 yards of sand).

Masonry Estimating Guide
(Intended for "Rule of Thumb" use only.)

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Brick and Block Unit Quantities

2½" High Block (2½" x 8" x 16")	3.1 block per SF of wall area
Half High Block (4" x 4" x 16)	2.25 block per SF of wall area
Standard Block (4", 8", 10", 12")	1.125 block per SF of wall area
Face Brick Modular	7 brick per SF of wall area
Oversize Brick	6 brick per SF of wall area
Utility Brick	3 brick per SF of wall area

Mortar Quantities

Block	3 bags per 100 block
Face Brick Modular	7 bags per 1000 brick
Oversize Brick	8 bags per 1000 brick
Utility Brick	10 bags per 1000 brick

Sand Quantities

Sand	1 CY per 7 bags mortar
	1 yard sand=1.25 tons

1 yard sand per 1,000 brick
 1 yard sand per 200 block

Horizontal Wall Reinforcing Quantities

Horizontal Wall Reinforcing for block SF/1.33
 Every other course or every 16"

Cavity Fill Insulation Quantities

Cavity Fill Insulation 4 CF per bag

Estimated Volume Required To Fill Core Voids in Block

6" x 8" x 16"	2 core	0.17 CF/block
8" x 8" x 16"	2 core	0.25 CF/block
10" x 8" x 16"	2 core	0.33 CF/block
12" x 8" x 16"	2 core	0.39 CF/block

Approximate Concrete Required to Fill Bond Beam Lintels (BBL)

6" x 8" x 16"	BBL	0.173 CF concrete per LF
8" x 8" x 16"	BBL	0.22 CF concrete per LF
8" x 8" x 16"	Deep BBL	0.46 CF concrete per LF
12" x 8" x 16"	BBL	0.37 CF concrete per LF
12" x 8" x 16"	Deep BBL	0.74 CF concrete per LF

Typical CMU Dimensions

Nominal Dimensions (Inches)	Actual Dimensions (Inches)	Minimum Faceshell Thickness (Inches)	Minimum Web Thickness (Inches)
4 x 8 x 16	3 5/8 x 7 5/8 x 15 5/8	3/4	3/4
6 x 8 x 16	5 5/8 x 7 5/8 x 15 5/8	1	1
8 x 8 x 16	7 5/8 x 7 5/8 x 15 5/8	1 1/4	1
10 x 8 x 16	9 5/8 x 7 5/8 x 15 5/8	1 1/4	1 1/8
12 x 8 x 16	11 5/8 x 7 5/8 x 15 5/8	1 1/4	1 1/8

