

Masonry**Mortar**

<u>Type</u>	<u>Use</u>	<u>Cost per CF</u>	
		<u>Cement</u>	<u>Lime</u>
M	High Strength – Foundations	\$3.17	\$3.82
S	Reinforced Walls High Flexural Strength	\$3.36	\$3.47
N	Medium Strength, Above Grade Exposed	\$2.96	\$3.11
O	Low Strength, Interior	\$2.97	\$3.02
	Grout Block Fill	\$3.00	

Brickwork**Face Brick****Modular Brick Walls Without Headers**

Nom. Size of Brick, in. (h x t x l)	Brick per S.F. of Wall	C.F. Mortar per 100 S.F. Wall			C.F. Mortar per 1,000 Brick		
		Joint Thickness			Joint Thickness		
		1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
2-2/3 x 4 x 8	6.750	3.81	5.47	6.95	5.65	8.10	10.30
3-1/5 x 4 x 8	5.625	3.34	4.79	6.10	5.94	8.52	10.84
4 x 4 x 8	4.500	-	4.12	5.24	-	9.15	11.65
5-1/3 x 4 x 8	3.375	-	3.44	4.34	-	10.19	12.87
2 x 4 x 12	6.000	-	6.43	8.20	-	10.72	13.67
2-2/3 x 4 x 12	4.500	3.52	5.06	6.46	7.82	11.24	14.35
3 x 4 x 12	4.000	-	4.60	5.87	-	11.51	14.68
3-1/5 x 4 x 12	3.750	3.04	4.37	5.58	8.11	11.66	14.89
4 x 4 x 12	3.000	2.56	3.69	4.71	8.54	12.29	15.70
5-1/3 x 6 x 12	2.250	-	3.00	3.84	-	13.34	17.05
2-2/3 x 6 x 12	4.500	-	7.85	10.15	-	17.45	22.55
3-1/5 x 6 x 12	3.750	-	6.79	8.77	-	18.10	23.39
4 x 6 x 12	3.000	-	5.72	7.40	-	19.07	24.67

Brick Prices

Standard Modular & Non-modular	\$240 - \$340 per thousand
Jumbo Brick	\$290 - \$390 per thousand
Utility Brick	\$600 - \$1100 per thousand
Economy Brick	\$420 - \$700 per thousand

Cleaning Face Brick

Smooth Brick	1.6 Bricklayer Hours/1000 Brick 0.8 Laborer Hours/1000 Brick
Rough Brick	2.2 Bricklayer Hours/1000 Brick 1.1 Laborer Hours/1000 Brick

Concrete Masonry Units

Sizes, Weights and Quantities of Loadbearing Concrete Blocks and Tile

Actual Size of Units	Thick- ness	Approx. Weight		No. of Units 100 s.f. of Wall	Cu.Ft. Mortar 100 s.f. of Wall*
		Hvy. Wt. Units	Light Wt. Units		
3-5/8" x 4-7/8" x 11-5/8"	4"	11-13	8-10	240	8.0
5-5/8" x 4-7/8" x 11-5/8"	6"	17-19	12-14	240	8.5
7-5/8" x 4-7/8" x 11-5/8"	8"	22-24	14-16	240	9.0
3-5/8" x 7-5/8" x 11-5/8"	4"	17-19	12-14	150	6.0
5-5/8" x 7-5/8" x 11-5/8"	6"	26-28	17-19	150	6.5
7-5/8" x 7-5/8" x 11-5/8"	8"	33-35	21-23	150	7.0
9-5/8" x 7-5/8" x 11-5/8"	10"	42-45	27-29	150	7.5
11-5/8" x 7-5/8" x 11-5/8"	12"	48-51	29-31	150	8.0
3-5/8" x 3-5/8" x 15-5/8"	4"	12-14	9-10	225	9.0
5-5/8" x 3-5/8" x 15-5/8"	6"	17-19	11-13	225	9.5
7-5/8" x 3-5/8" x 15-5/8"	8"	22-24	14-16	225	10.0
3-5/8" x 7-5/8" x 15-5/8"	4"	23-25	16-18	112.5	5.0
5-5/8" x 7-5/8" x 15-5/8"	6"	35-37	24-26	112.5	5.0
7-5/8" x 7-5/8" x 15-5/8"	8"	45-47	29-31	112.5	6.0
9-5/8" x 7-5/8" x 15-1/2"	10"	57-60	36-38	112.5	6.5
11-5/8" x 7-5/8" x 15-5/8"	12"	64-67	40-42	112.5	7.0

Block Cost

8"x8"x16" CMU: \$0.80 to \$1.60 dependent on locale.

Misc. CMU Costs

Horizontal #3 & #4 Bars – 450#/Day -	Bricklayer 0.018 Hrs/ #
Vertical #3 & #4 Bars – 350#/Day	Bricklayer 0.023 Hrs/ #
Joint Reinforcing Ladder or Truss Type 25 CLF/Day	Bricklayer 0.320 Hrs./ CLF
Material: Ladder Type \$7.65/CLF Truss Type \$10.40 / CLF	
Wall Ties 24 Ga. Galv,Corr.-1050/Day	Bricklayer 0.762 Hrs/100 Ties
to Stud Wall Material: \$4/100 Ties	
Wall Anchors Hook& Eye-1050/day	Bricklayer 7.619 Hrs/1000 Ties
Material: \$300-\$400/1000 Ties	
Grouting Bond Beams 8" Wall, 0.2 CF/ LF	Bricklayer 0.023 Hrs/LF
<u>Grouting Block Cores</u>	
6" Thick Walls	5.25 SF/CF Grout
8" Thick Walls	3.63 SF/CF Grout
12" Thick Walls	2.00 SF/CF Grout
Labor: 0.011 Hrs/SF Bricklayer & Operator, 0.022 Hrs/SF Laborer, \$3.50/Hour Mud Pump	
Concrete Coping (8" Wall): 75 LF/Day	Bricklayer & Laborer 0.133 Hrs/LF
Material: \$9.60/LF	
Concrete Coping (12" Wall) 65 LF/Day	Bricklayer & Laborer 0.154 Hrs/LF
Material: \$12.00/LF	
Concrete Lintels (8"x12"):	Bricklayer & Laborer 0.045 Hrs/LF
Material: \$33.50/LF	
Steel Lintels :	Bricklayer 0.013 Hrs/#
Material: \$0.50 - \$0.60 /#	

The information shown was obtained from Walker's Building Estimator's Reference Book, 1999 (among other sources), and is to be used only for classroom purposes and not as a substitute for field experienced estimating techniques or actual material quotes.