

	Hours	Rate	Total	Rate	Total
Brought Forward...			\$.....		\$14.60
Mason	6		1.70	10.20
Labor	797½	6.83

Cost per 1,000 brick ... 13 \$..... \$31.63

Estimate the labor cost of laying concrete face brick the same as given for "Press Brick," under "Brick Masonry."

Quantity of Mortar Required to Lay 1,000 Concrete Brick

	Thickness of Mortar Joints in Inches			
	¼-In.	⅜-In.	½-In.	¾-In.
9 cu. ft.	13½ cu. ft.	18 cu. ft.	22½ cu. ft.	27 cu. ft.

The above table is based on a brick 2½"x3½"x8" in size, having 56 sq. in. covered with mortar, i.e., bed, end and side joints, plus a small allowance for waste.

Concrete Blocks and Partition Units

Concrete blocks and partition units are manufactured in two weights of concrete, one weighing approximately 145 lbs. per cu. ft. (sand, pebbles, crushed stone or slag aggregates) and another of lighter weight concrete weighing about 100 lbs. per cu. ft. of burned clay or cinder aggregates.

These two types of units may be used interchangeably for all purposes although the light weight units afford a saving of weight to secure economy in design; they afford increased heat and sound insulation and provide a satisfactory nailing base without the use of grounds.

Estimating the Quantity of Concrete Blocks and Partition Units.—Concrete blocks and partition units should be estimated by the square foot of wall of any thickness and then multiplied by the number of blocks per 100 sq. ft. as given in the following tables.

When estimating quantities, always take exact measurements and do not count corners twice.

Make deductions in full for all openings, regardless of size. The result will be the actual number of sq. ft. or number of blocks required for the job.

Mortar.—The same kind of mortar should be used in laying up concrete blocks as given for concrete brick on page 443.

Celite* in Mortar for Setting Concrete Blocks.—Used to make cement and lime mortar work better under the trowel, increases plasticity, and gives the mortar exceptional spread and "fatness."

For average job conditions, figure 3.42 bbls. portland cement; 109.4 lbs. Celite and 1.52 cu. yds. sand to make sufficient mortar to lay 1,000 pcs. 8"x8"x16" concrete blocks. Celite costs about 2¼ cts. per lb.

Sizes, Weights and Quantities of Load-Bearing Concrete Blocks and Tile

Size and Description of Units	Wall Thickness	Weight per Unit Lbs.	Quantities given per 100 sq. ft. of wall area.	
			No. of Units per 100 Sq. Ft. Wall	Weight Lbs. per 100 Sq. Ft.
8"x12"x16" Block	12"	85	110	3.25
8"x10"x16" Block	10"	70	110	3.25
8"x8"x16" Block	8"	50	110	3.25
5"x8"x12" Tile	8"	23.0	220	5.00
3½"x8"x12" Tile	8"	16.5	300	6.00
5"x6"x12" Tile	6"	14.5	220	4.00
3½"x6"x12" Tile	6"	12.5	300	5.50
5"x4"x12" Tile	4"	9.9	220	4.50
3½"x4"x12" Tile	4"	8.5	300	5.50

Size and Description of Units	Wall Thickness	Weight per Unit Lbs.	Lightweight Type	
			No. of Units per 100 Sq. Ft. Wall	Weight Lbs. per 100 Sq. Ft.
8"x12"x16" Block	12"	46-54	110	3.25
8"x8"x16" Block	8"	27-32	110	3.25
5"x8"x12" Tile	8"	10.8-12.7	220	5.00
3½"x8"x12" Tile	8"	8.9-10.6	300	6.00
5"x6"x12" Tile	6"	8.1-9.5	220	4.00
3½"x6"x12" Tile	6"	6.8-8.0	300	5.50
5"x4"x12" Tile	4"	5.4-6.3	220	4.50
3½"x4"x12" Tile	4"	4.6-5.4	300	5.50

The sizes listed below, under Partition Units, may be secured in Load Bearing grades of both weights for back-up in 8" walls.

Lightweight Partition Blocks				
Size and Description of Units	Wall Thickness	Weight per Unit Lbs.	No. of Units per 100 Sq. Ft. Wall	Weight Lbs. per 100 Sq. Ft.
8"x6"x16"	6"	23-27	110	3.25
9"x4"x18"	4"	19-22	87	3.25
12"x4"x12"	4"	17-20	100	3.25
8"x4"x16"	4"	15-18	110	3.25
8"x4"x12"	4"	11-13	146	4.00
9"x3"x18"	3"	14-17	87	2.50
12"x3"x12"	3"	12-15	100	2.50
8"x3"x16"	3"	11-13	110	2.75
8"x3"x12"	3"	8-10	146	3.50

*Mortar quantities based on ¾" mortar joints, plus 25% for waste. Weight of mortar assumed at 103 lbs. per cu. ft. For ½" mortar joints, add 25% to above quantities.