

# BASIC ESTIMATING

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www.foxblocks.com

Fox Blocks offers 3 methods to calculate the block for your project:

ACTUAL	DECIMAL	INCHES	ROWS	4" ext	Half Block
2'-8"	2.67	32	2	0	0
3'-4"	3.00	36	2	1	0
4'-0"	4.00	48	3	0	0

- 1) Use the basic math below to quickly calculate your estimate.
- 2) You can go to the website [www.foxblocks.com](http://www.foxblocks.com) and use the Project Estimator.
- 3) You can go to the website [www.foxblocks.com](http://www.foxblocks.com) and download the stand alone Project Estimator Pro which includes most aspects of an ICF build.

## ESTIMATING BASIC QUANTITIES OF FOX BLOCK FOR YOUR PROJECT USING BASIC MATH:

### STEP ONE - COLLECT DATA:

Size of block needed (4", 6", 8" or 12") = **A** \_\_\_\_\_  
 Add up the total linear footage of the job = **B** \_\_\_\_\_  
 The number of courses (rows) required:  
 (Wall height in inches / 16" or use chart) = **C** \_\_\_\_\_  
 Number of 90° turns for job = **D** \_\_\_\_\_  
 Inside 90° turns = **E** \_\_\_\_\_ Outside 90° turns = **F** \_\_\_\_\_  
 Number of turns for job other than 90° = **G** \_\_\_\_\_  
 Number of T-Block locations = **H** \_\_\_\_\_  
 Square footage of openings = **I** \_\_\_\_\_

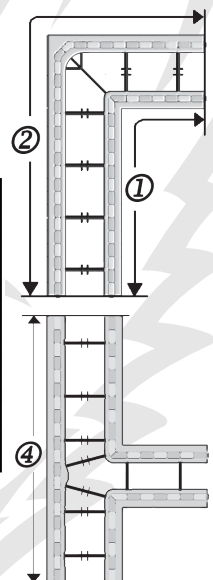
### STEP TWO - CALCULATE BLOCK REQUIREMENTS:

90° block needed: **D x C** (Total number of 90° turns times the number of rows high)  
 45° block needed: **G x C** (Total number of 45° turns times the number of rows high)  
 T Block needed: **H x C** (Total number of T Block locations times the number of rows high)  
 Straight Block needed: (Use chart and calculations below)

Block Size	Length in feet	
	Inside	Outside
4"	① = 3.5	② = 5.0
6"	① = 3.5	② = 5.3
8"	① = 3.6	② = 5.6
10"	① = 3.6	② = 5.6
12"	① = 3.7	② = 6.3

Block Size	Length in feet	
	Inside	Outside
4"	③ = 3.5	③ = 3.5
6"	③ = 3.5	③ = 3.5
8"	③ = 3.5	③ = 3.5
10"	③ = 0.0	③ = 0.0
12"	③ = 0.0	③ = 0.0

Block Size	Length in feet	
	Inside	Outside
4"	_____	④ = 0.0
6"	_____	④ = 3.5
8"	_____	④ = 3.5
10"	_____	④ = 0.0
12"	_____	④ = 0.0



$(E \times j) + (F \times k) + (G \times l) + (H \times m) = \mathbf{J}$  \_\_\_\_\_ (Linear feet of wall taken up by corners and T Block)  
 $B - J = \mathbf{K}$  \_\_\_\_\_ (Total linear feet of wall taken up by straight block)  
 $I / 5.33 = \mathbf{L}$  \_\_\_\_\_ (Number of block taken up by openings. 5.33 is sq. ft. per block)  
 $(K \times C) - L =$  Total Straight block needed for job not including waste factor. (Add 3% for waste)

See other side of page for more calculations.

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## STEP THREE - OTHER TYPES OF BLOCK:

### Taper Block needed (only available in 6" & 8"):

Linear feet of taper block need / 4 (4 = length of one corbel block)  
 Remove this number from the straight block count

### Corbel Block needed (only available in 6" & 8"):

Linear feet of corbel block need / 4 (4 = length of one corbel block)  
 Remove this number from the straight block count

### Radius block needed (only available in 6"):

Linear feet of radius block need / 1.33 (1.33 = length of one corbel block)  
 Remove one straight block for every three radius block needed

### Curb Block needed (only available in 8" at this time):

Straights: (Total linear footage of wall - total linear footage taken up by 90° corners)/4 = # of straight curb blocks  
 Remove this number from the straight block count  
 Corners: Number of 90° turns = # of 90° corner blocks  
 Remove this number from the 90° corner block count

### 1/2 block needed (only available in straight and 90° corner blocks):

Same formulas as straight and 90° corner blocks.

### Energy Sticks needed (will fit all block):

Total # of block for job x 3.

## STEP FOUR - CALCULATE CONCRETE:

Fox blocks volume is exactly 4", 6", 8", 10" or 12" so calculate as you would other regular concrete formwork.

The following chart will give volumes per block:

Concrete Volumes											
Cubic Yards						Cubic Meters					
Block Type	Size					Block Type	Size				
	4"	6"	8"	10"	12"		4"	6"	8"	10"	12"
Straight	0.066	0.099	0.132	0.165	0.198	Straight	0.05	0.076	0.101	0.126	0.151
90 corner	0.07	0.105	0.145	0.181	0.212	90 corner	0.054	0.08	0.111	0.138	0.162
45 corner	0.066	0.082	0.117	NA	NA	45 corner	0.05	0.063	0.089	NA	NA
Corbel Block	NA	0.129	0.162	NA	NA	Corbel Block	NA	0.099	0.124	NA	NA
Taper Block	NA	0.111	0.144	NA	NA	Taper Block	NA	0.085	0.11	NA	NA
T Block short	NA	0.105	0.141	NA	NA	T Block short	NA	0.08	0.108	NA	NA
T Block long	NA	0.121	0.152	NA	NA	T Block long	NA	0.093	0.116	NA	NA
Radius Block	NA	0.033	NA	NA	NA	Radius Block	NA	0.025	NA	NA	NA

## STEP FIVE - MISC:

**Fox Blocks HV Clips:** One box for every 150 block ordered (One box = 250 Fox Block HV Clips)

**Bracing:** Linear feet of wall / 6'

**Opening Buck Materials:** Choose your buck material and follow manufacturers estimating technique

**Rebar:** (# of rows needed x Linear feet of wall) + (Linear feet of wall / spacing needed)  
 Add 10% to horizontal rebar total for lap splices.