



Units Per Square Feet of Wall

Modular brick -	6.75
Oversize/ Engineer -	5.75
Closure brick -	4.50
Utility brick -	3.00
CMU -	1.125
½ CMU -	2.25

Waste factors

Brick -	5%
CMU -	3%

Units per Square Feet w/ waste

Modular brick -	7.10
Oversize/ Engineer -	6.00
Closure -	4.75
Utility -	3.15
CMU -	1.16
½ CMU -	2.32

Mortar

Modular brick -	7 bags/ 1000
Oversize/ Engineer -	8.5 bags/ 1000
Closure -	10 bags/ 1000
Utility -	14 bags/ 1000
CMU -	30 bags/ 1000
½ CMU -	25 bags/ 1000

Sand

bags of mortar/ 6 = ton of sand

bags of mortar/ 7 = yard of sand

Grout

6" CMU -	150 CMU/ yd
8" CMU -	90 CMU/ yd
12" CMU -	65 CMU/ yd

Other

Veneer anchors 16" OC - SF x 0.60 = EA

Wire reinforcing SF x 0.75 = LF

Units Per Linear Feet of Wall

Modular Soldier/ Rowlock –	4.5/ LF
Oversize Soldier/ Rowlock –	3.75/LF
Closure Soldier/ Rowlock –	3.0/LF
Utility Soldier/ Rowlock –	3.0/ LF
CMU -	.75/ LF

Mortar using 80 lb. pre-mix bags

Modular brick -	40 brick/ bag
6" CMU -	12 block/ bag
8" CMU -	12 block/ bag
12" CMU -	10 block/ bag

Grout using 80 lb. pre-mix bags

6" CMU -	3 block/ bag
8" CMU -	2.5 block/ bag
12" CMU -	2 block/ bag

Mixing Grout On-Site

(Using ASTM C 476)

Fine Grout – 1-part Portland Cement
3-part concrete sand
4 total parts

Coarse Grout - 1-part Portland Cement
2-part pea gravel
3-part concrete sand
6 total parts

Calculations

Length x height = Square Foot

Length x width x height = Cubic Feet

Cubic feet / 27 = Cubic Yard

Area of a circle = 3.1416 x radius x radius

Circumference of a circle (length around)

3.1416 x diameter

Area of Triangle = $\frac{1}{2} \times \text{base} \times \text{height}$