

Conforms to  
AS3700 – 2001  
The Masonry Code

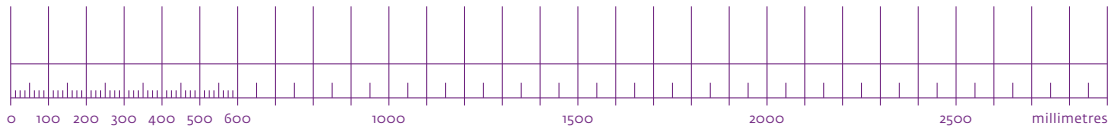


1. This table is suitable for traditional size bricks (230x110x76) and modular bricks (290x90x90) with 10mm joints in single leaf walls.
2. Wastage of 25% has been allowed in these calculations. This assumes that perforations are completely filled and these estimates are the upper bound limit of the mortar volume required.
3. The table is based on bags of cement and lime weighing 20kg.
4. A shallow frog in a pressed brick is equivalent to a 5% perforation.
5. The volume of sand (see bottom line of table) is equal to the volume of mortar.
6. M1 mortar is recommended for restoration work only.

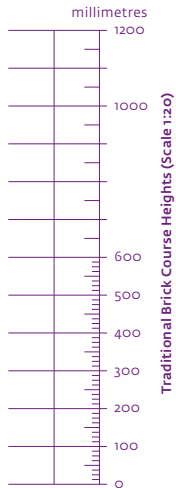
## Mortar Estimator

Number of bags of cement, lime and cubic metres of sand per thousand bricks

Classification (from AS3700-2001)	Composition cement:lime:sand	Perforation of bricks			
		5%		25%	
		cement	lime	cement	lime
M1	0:1:3		5.2		9.7
	1:3:12	3.5	3.9	6.5	7.2
M2	1:2:9	4.6	3.5	8.6	6.4
M3	1:1:6	6.9	2.6	12.9	4.8
M4	1:0.25:3	13.9	1.3	25.9	2.4
	1:0.5:4.5	9.2	1.7	17.3	3.2
Sand volume (m <sup>3</sup> )		0.55		1.04	



Traditional Brick Lengths (Scale 1:20)



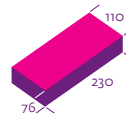
Traditional Brick Course Heights (Scale 1:20)



Number of bricks per square metre = 48 per leaf (on flat) or 35 per leaf (on edge)

Brick Estimator							
Traditional Size Brick							
No. of bricks	A Length (mm)	B Opening (mm)	C Height (mm)	No. of bricks	A Length (mm)	B Opening (mm)	C Height (mm)
1	230	250	86	15	3590	3610	1286
2	470	490	172	16	3830	3850	1372
3	710	730	257	17	4070	4090	1457
4	950	970	343	18	4310	4330	1543
5	1190	1210	429	19	4550	4570	1629
6	1430	1450	514	20	4790	4810	1714
7	1670	1690	600	21	5030	5050	1800
8	1910	1930	686	22	5270	5290	1886
9	2150	2170	772	23	5510	5530	1972
10	2390	2410	857	24	5750	5770	2057
11	2630	2650	943	25	5990	6010	2143
12	2870	2890	1029	50	11990	-	4286
13	3110	3130	1114	100	23990	-	8572
14	3350	3370	1200				

Traditional size bricks only  
Joint size = 10mm



Vertical gauge  
7 courses = 600mm



Traditional Brick Course Heights (Scale 1:100)

To calculate a dimension, including a half brick, add 120mm to "Length" or "Opening" figure. For example, an opening of 1½ bricks = 2770mm (2650+120)



Traditional Brick Lengths (Scale 1:100)