

## Estimating quantities for clay brick walls and paving

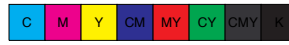
As part of an ongoing commitment to customer satisfaction, Corobrik has supplied this information in good faith. Corobrik is not responsible and cannot in any way be held accountable for poor workmanship or errors that may occur through the use of this information.



Gauteng: Tel (011) 871 8600 KwaZulu-Natal: Tel (031) 560 3222  
Western Cape: Tel (021) 887 3311 E-mail: [intmktg@corobrik.co.za](mailto:intmktg@corobrik.co.za)  
[www.corobrik.com](http://www.corobrik.com)

FCBDBN 51.1407 / MARCH 2005





BRICK QUANTITIES			
BRICK FORMAT	WORK SIZE	BRICKS PER m <sup>2</sup> BASED ON SINGLE-SKIN CONSTRUCTION WITH 12mm JOINTS	SQUARE METRES PER 1000 BRICKS
Imperial (Standard)	222 x 106 x 73mm	52	19.23
CoroMaxi 90*	222 x 90 x 114mm	34	29.40
CoroMaxi 140**	290 x 140 x 114mm	27	37.00

\* Only available in KwaZulu-Natal and Western Cape.

\*\* Only available in KwaZulu-Natal.

CLAY BRICK PAVING QUANTITIES				
VARIOUS PAVER SIZES (mm) LENGTH x WIDTH x DEPTH	APPROXIMATE USAGE (Qty/m <sup>2</sup> )		AREA PER 1000 PAVERS	
	FLEXIBLE (Assumes 3mm joint)	RIGID (Assumes 10mm joint)	FLEXIBLE (Assumes 3mm joint)	RIGID (Assumes 10mm joint)
222 x 106 x 73	41	37	24m <sup>2</sup>	27m <sup>2</sup>
220 x 108.5 x 50	41	36	25m <sup>2</sup>	27m <sup>2</sup>
220 x 108.5 x 65	41	36	25m <sup>2</sup>	27m <sup>2</sup>
200 x 98.5 x 50	48	43	21m <sup>2</sup>	23m <sup>2</sup>
222 x 73 x 106 (brick on edge)	61	52	16m <sup>2</sup>	19m <sup>2</sup>

## Mortar Mix Proportions

- Good brickwork is impossible without good mortar!
- 1000ℓ = 1m<sup>3</sup>  
1 Bag = 33ℓ  
2 Bags = 1 Builder's Barrow (65ℓ)
- If masonry cement is used, reduce volume of sand by 10%.
- Mortar sand should comply with the requirements of SABS 1090 "Sand for Plaster and Mortar".
- Use only enough water to produce a workable mix that spreads easily.

- No allowance has been made for waste. Where poor workmanship and/or poor supervision are encountered the number of bricks laid can easily be reduced by 25% - 30%.

PROPORTION OF MORTAR				
CLASS	CEMENT : SAND	COMMON CEMENT	SAND	BRICKS LAID IN 230mm WALL
I	1:4	1 bag = 50kg = 33ℓ	130ℓ	300 (approx.)
II	1:6	1 bag = 50kg = 33ℓ	200ℓ	410 (approx.)
III	1:9	1 bag = 50kg = 33ℓ	300ℓ	590 (approx.)

\* To lay 1000 bricks in a Class II mortar (1:6 mix) will require 0.5m<sup>3</sup> sand and 2.5 x 50kg bags of cement.

The application of different classes of mortar are as follows:

### Class I

Highly stressed masonry, incorporating high strength structural units such as might be used in multi-storey load bearing building.

### Class II

Normal load bearing applications, as well as parapets, balustrades, free-standing and garden walls and other walls exposed to possible severe dampness.

### Class III

Lightly stressed (e.g. single-storey) bearing walls where exposure to dampness is not severe.

**NOTE:** Increasing mortar strength reduces the ability of the structure to accommodate movement due to settlement, temperature and moisture changes.