

CONCRETE ESTIMATING GUIDE

HOW MUCH DO I NEED?

Before commencing concreting operations, sufficient materials should be stockpiled. To calculate quantities required multiply length x width x thickness.
For example: 10m (length) x 15m (width) x 50mm (depth) = 10x15x0.05 = 7.5m³ of concrete.

APPLICATIONS	MIX (by volume)			MATERIALS (required to make 1 cubic metre of concrete)		
	Cockburn [®] Cement	Concrete Sand	Coarse Aggregate	Cockburn [®] Cement (20kg bags)	Concrete Sand (cubic metre)	Coarse Aggregate (cubic metre)
High structural strength concrete, thin reinforced walls, slender reinforced columns, fence posts, heavy duty floors.	1	1.5	3	18	0.4	0.9
Commonly adopted mix for reinforced concrete beams, floor slabs, residential driveways and paths.	1	2	4	14	0.4	0.9
Footings for domestic buildings and walls.	1	2.5	5	12	0.5	0.9
Toppings for two-course concrete paths.	1	1	2	26	0.5	0.8

Note: All above mixes yield an amount of concrete slightly more than the quantity of coarse aggregate used in the mix.

COCKBURN CEMENT, COCKBURN CREME, BRICKIES COASTAL, BRICKIES GREY, BRICKIES LITE, HYLIME, POSTCRETE and CREME are trade marks of Cockburn Cement Limited.



INTERNATIONAL
QUALITY
MANAGEMENT
SYSTEM
ISO 9002 NATA CERTIFIED

COCKBURN CONCRETE PACK

Size	Cubic Metres Per Bag	Bags Per Cubic Metre
20kg bags	0.009 m ³ per bag 9 Litres per bag	110 bags per m ³

COCKBURN POSTCRETE[®]

Size	Cubic Metres Per Bag	Bags Per Cubic Metre
20 kg bags	0.009 m ³ per bag 9 Litres per bag	110 bags per m ³

NOTE: Postcrete[®] is not recommended for load bearing applications.

COCKBURN CREME[®] MORTAR PACK AND COCKBURN GREY MORTAR PACK

Size	Standard Bricks Per Bag (10mm joint)	Bags per 1000 standard bricks
20kg bags	28 bricks per bag	36 bags

NOTE: 1 standard brick measures 230mm L x 110mm W x 76mm H
Cockburn Mortar Packs produce an M3 class mortar when mixed and placed in accordance with the AS 3700 Masonry Code.

For further technical assistance please ring

1300 138 996

or visit our website

www.cockburncement.com.au



DISCLAIMER:

Cockburn Cement Ltd is not liable for any losses incurred by anyone using this guide as usage can vary depending on brick type and other factors.

Revised 07/2017



The Original

Easy Estimator

For The Home Handyman

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A QUICK GUIDE FOR ESTIMATING MIX RATIOS AND QUANTITIES FOR COCKBURN CEMENT

MORTAR

APPLICATION	BRICK TYPE	MORTAR COLOUR	MIX RATIO BY VOLUME			BAGS PER 1000 STANDARD CLAY BRICKS
			CEMENT	LIME	SAND	
M4 MORTAR CLASSIFICATION						
<ul style="list-style-type: none"> Retaining Walls Below Ground Walls External Above Ground Walls within 1km of surf coastline - or within 100m of a non surf coast Walls in Industrial Environments 	Clay (Solid)	Grey	1	0.5	4.5	8 Cockburn Grey Cement + 1.5 Hylime®
				0.25	3	11 Cockburn Grey Cement + 1 Hylime®
	Clay (Cored)		1	0	3	11 Masonry Cement
				0	3	9 Brickies Grey Coastal M4®
Concrete	Creme	1	0.5	4.5	8 Cockburn Creme®+ 1.5 Hylime®	
			0.25	3	8 Cockburn Creme®+ 1 Hylime®	
			0	3	9 Brickies Lite Coastal M4®	
M3 MORTAR CLASSIFICATION						
<ul style="list-style-type: none"> External Above Ground Walls (from 1km to 10km of coastline or from 100m to 1km of non-surf coastline, in Residential Areas, excluding retaining walls) Walls in contact with fresh water 	Clay (Solid)	Grey	1	0	3	10 Brickies Grey®
	Clay (Cored)			1	6	7 Cockburn Grey Cement + 2.5 Hylime®
				0	4	9 Masonry Cement
	Concrete	Creme	1	1	6	7 Cockburn Creme®+ 2.5 Hylime®
				0	3	10 Brickies Lite®
Reconstituted Limestone	Federation White	1	1	6	7 Cockburn Creme®+ 2.5 Hylime® (with white brickies sand)	
M2 MORTAR CLASSIFICATION						
<ul style="list-style-type: none"> External Above Ground Walls greater than 10km of coastline or greater than 1km from non-surf coast, in Residential Areas, excluding retaining walls) Internal Above Ground Walls (non-load bearing e.g. single story) 	Clay (Solid)	Grey	1	0	3	10 Brickies Grey®
	Clay (Cored)			2	9	5 Cockburn Grey Cement + 3.5 Hylime®
		Natural Limestone	Limestone	1	0	3
	2				9	5 Cockburn Creme®+ 3.5 Hylime®

- Note:
- 1000 standard bricks (230L x 110W x 76H) requires approximately 0.6m³ damp bricklaying sand
 - All mortars must be mixed and placed in accordance with the AS 3700 "Masonry structures"
 - Additional air entrainer agents are not recommended

RENDER

1 m³ of render requires approximately
1.2 m³ damp plastering sand

INTERNAL RENDERS	Mix Ratio (Volume)					Hylime®
FLOATING 27.8 kg Plasterers Dark® 20 kg Masonry Cement 20 kg Cockburn Grey Cement type GP	C	L	S	Bags per 100m² @ 10mm		
	1	0	5	9	0	
	1	0	5	13	0	
GLASS FACED RENER (DADO) Base Coat 27.8 kg Plasterers Dark® Finish Coat 27.8 kg Plasterers Dark®	C	L	S	Bags per 100m² @ 10mm		
	1	0	3	11	0	
	1	0	1	18	0	
FLOOR SCREEDING 20 kg Cockburn Grey Cement type GP	C	L	S	Bags per 100m² @ 10mm		
	1	0	4	16	0	
EXTERNAL RENDERS	Mix Ratio (Volume)			Cement	Hylime®	
SAND FINISH BASE COAT (GREY) 27.8 kg Plasterers Dark® 20 kg Cockburn Grey Cement type GP	C	L	S	Bags per 100m² @ 10mm		
	1	0	4	10	0	
	1	1	5	12	4	
SAND FINISH TOP COAT (CREME) 20 kg Cockburn Creme® type GP	C	L	S	Bags per 100m² @ 5 mm		
	1	1	6	6	2	
BAG WASH 20 kg Cockburn Creme® type GP	C	L	S	Bags per 100m² @ 5 mm		
	1	1	5	6	2	

All render mix ratios are for cored clay bricks.
All mix ratios are by volume e.g. gauging bucket.
Only use good quality plastering sand.