

MORTAR

The following calculations are based on approximately 0.6m³ (1.2T) of damp sand, which will lay approximately 1,000 standard bricks. The Lime 'n' Lite and Lime 'n' Grey products are pre-blended cement and lime at 1:1 by volume. All bags are 20kg net weight.

Classification AS3700	Application	Brick / Block Type	Mortar Colour	Mix Design by Volume			Bags per 1,000 standard bricks	
				Cement	Hydrolime	Sand	Cement	Hydrolime
M4	* Retaining walls * Below ground walls * External above ground walls (within 1km of coastline) * Walls in industrial environments	* Fired Clay	Grey	1	0.5	4.5	8 x Grey cement	1.25
				1	0.25	3	10 x Grey cement	1
		* Concrete * Limestone	Cream	1	0.5	4.5	8 x Ultra Creme cement	1.25
				1	0.25	3	10 x Ultra Creme cement	1
M3	* External above ground walls (1km to 10km from coast, excluding retaining or below ground walls) * Walls in contact with fresh water	* Fired Clay * Concrete	Grey	1	1	6	6 x Grey cement	3
				1		3	9 x Lime 'n' Grey	0
		* Limestone	Cream	1	1	6	6 x Ultra Creme cement	3
				1		3	9 x Lime 'n' Lite	0
M2	* External above ground walls (further than 10km from coastline, excluding retaining or below ground walls) * Internal above ground walls (non-load bearing)	* Fired Clay * Concrete	Grey	1	1	6	6 x Grey cement	3
				1		3	9 x Lime 'n' Grey	0
		* Limestone	Cream	1	1	6	6 x Ultra Creme cement	3
				1		3	9 x Lime 'n' Lite	0
		Limestone	1	2	9	4 x Ultra Creme cement	3	

NOTE:

1. All mortars must be mixed and placed as per AS3700 Masonry Code.
2. Clean, sharp, well-graded sand, free from loam, clay and impurities should be used. The presence of foreign matter will weaken mortar and affect its setting time.
3. Hydrolime contains an air-entraining agent for better workability. The use of additional additives is not required or recommended.
4. Above mix designs do not apply to Calcium Silicate or lightweight Autoclaved Aerated Concrete (AAC) bricks. Refer to brick manufacturer's technical literature for mortar mix design recommendations.
5. For bag quantities compared to standard bricks - Modular bricks (290x90x90), reduce by 30%. For Midland Brick Longreach (305x90x76), reduce by 25%. For Midland Brick Ultra and Austral Verticore (305x90x162), reduce by 50%. For limestone blocks (500x150x300 on edge), decrease by 50%. For limestone blocks (500x300x150 on flat), increase by 70%. For other brick or block sizes, please contact BGC Cement on (08) 9334 4555.