

The following calculations are based on approximately 0.6m<sup>3</sup> (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 except Lime 'n' Lite and Lime 'n' Grey which are 17.85kg net weight.

Class AS3700	Application	Brick / Block Type
M4	<ul style="list-style-type: none"> <li>Retaining walls</li> <li>Below ground walls</li> <li>External above ground walls (within 1km of coastline)</li> <li>Walls in industrial environments</li> </ul>	<ul style="list-style-type: none"> <li>Fired Clay</li> <li>Concrete</li> <li>Limestone</li> </ul>
M3	<ul style="list-style-type: none"> <li>External above ground walls (1km to 10km from coast, excluding retaining or below ground walls)</li> <li>Walls in contact with fresh water</li> </ul>	<ul style="list-style-type: none"> <li>Fired Clay</li> <li>Concrete</li> <li>Limestone</li> </ul>
M2	<ul style="list-style-type: none"> <li>External above ground walls (further than 10km from coastline, excluding retaining or below ground walls)</li> <li>Internal above ground walls (non-load bearing)</li> </ul>	<ul style="list-style-type: none"> <li>Fired Clay</li> <li>Concrete</li> <li>Limestone</li> </ul>

Mortar Colour	Mix Design by Volume		
	Cement	Hydrolime	Sand
Grey	1	0.5	4.5
	1	0.25	3
Cream	1	0.5	4.5
	1	0.25	3
Grey	1	1	6
	1	0	3
Cream	1	1	6
	1	0	3
Federation White	1	1	6 white sand
Grey	1	1	6
	1	0	3
Cream	1	1	6
	1	0	3
Limestone	1	2	9

Bags per 1,000 standard bricks	
Cement	Hydrolime
8 x Grey cement	1.25
10 x Grey cement	1
8 x Ultra Crème cement	1.25
10 x Ultra Crème cement	1
6 x Grey cement	3
10 x Lime 'n' Grey	0
6 x Ultra Crème cement	3
10 x Lime 'n' Lite	0
6 x Ultra Crème Cement	3
8 x Grey cement	3
10 x Lime 'n' Grey	0
6 x Ultra Crème cement	3
10 x Lime 'n' Lite	0
4 x Ultra Crème Cement	3



**NOTE:**

- All mortars must be mixed and placed as per AS3700 Masonry Code.
- 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.
- Hydrolime contains an air-entraining agent for better workability. The use of additional additives is not required or recommended.
- Above mix designs do not apply to Calcium Silicate or lightweight Autoclaved Aerated Concrete (AAC) bricks. Refer to brick manufacturers technical literature for mortar design mix design recommendations.
- 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.

