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Grey Block			Designer Block		Core Fill Quantities	
M3	Mix in 1:1:6 proportions		Mix in 1:5 proportions		Block Type	No. of Blocks Filled per m ³
	Cement	14 bags (20kg each)	Cement	16 bags (20kg each)	15.48, 15.42	190
	Lime	5 bags (20kg each)	Designer Block® Additive	8 litres	15.101	200
	Sand	1.2m ³	Sand	1.2m ³	20.42	120
	Mix in 1:0.5:4.5 proportions		Mix in 1:4 proportions		20.101	125
M4	Cement	18 bags (20kg each)	Cement	20 bags (20kg each)	20.48	100
	Lime	3 bags (20kg each)	Designer Block® Additive	10 litres	30.48	65
	Sand	1.2m ³	Sand	1.2m ³	Connex 150	70
					Connex 200	93

Material Quantities for 1m³ of Mortar

- For every 800 full height blocks (390 long x 190 high) or 64m² of wall, approximately 1m³ of mortar mix is required, allowing for wastage.
- There are 12.5 full blocks per square metre of wall surface area.

Grout for Core Filling

The correct grout specification (mix design) is critical to achieving the structural design of a reinforced wall. The grout used to fill the cores of blockwork walls should be specified as follows:

- Grout to comply with AS3700 Clause 10.7.
- Characteristic Compressive Strength 20MPa.
- Cement content not less than 300kg/m³.
- Round aggregate (if any) not bigger than 10mm.
- Clean sand (1.2m).
- A pouring consistency which ensures that the cores are completely filled and the reinforcement completely surrounded without segregation of the constituents.

Control Joints

Because of temperature variations and the shrinkage in a concrete masonry wall after construction, it is necessary to provide control joints in blockwork at a max spacing of 6m and at points of potential cracking. Eg. Beside openings and at large steps in wall or footing.

- Joint width is 10mm for panels up to 6000mm long.
- Joint sealants should be applied towards the end of construction to minimise the effect of panel movement.

1. Colour and texture variation The supply of raw materials can vary over time resulting in variations between product types and production batches.

2. Strength As stated in this brochure all Boral Masonry units suitable for core-filled reinforced retaining walls are made to a minimum grade strength of 15 MPa, as per AS4456.4.

We reserve the right to change the details in this publication without notice. All specifications are correct at time of printing.