



Designer Range

Contents

Architectural Spotlight 3

Architectural Designer Range

Smooth Face..... 4
Split Face 5
Gallery 6
Gallery 7
Honed Face 8
Polished Face 9
Aspect Polished Bricks 10

Things to Know

Block Laying 11
Mortar 11
Block Filling 11
Coping and Flashing 11
Cleaning 11
Efflorescence 11
Construction Notes 11
Block & Brick Estimator 12
Material Quantities for 1m³ of Mortar 12
Grout for Core Filling 12
Control Joints..... 12

About National Masonry®

With over 40 years of manufacturing experience, National Masonry® has quickly established itself as an industry leader with a focus on product quality and a clear vision of customers for life. We are determined to give every customer a memorable experience which will confirm you have made the right choice. National Masonry use locally sourced raw materials and all our products are proudly Australian made.

National Masonry®, the new benchmark in masonry.

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www.nationalmasonry.com.au

Product Disclaimer: Concrete Blocks, Bricks, Pavers and Retaining Wall products supplied by National Masonry® are manufactured using raw materials that inherently vary in nature. Whilst all effort is made to produce uniformity in our range of products, variation in colour, texture, and finish can be present. The dimensional characteristics of all products are nominal and variations in length, height, and width can occur from unit to unit which needs to be taken into consideration when installing these products.



Display Centres

PGH Bricks Display Centre

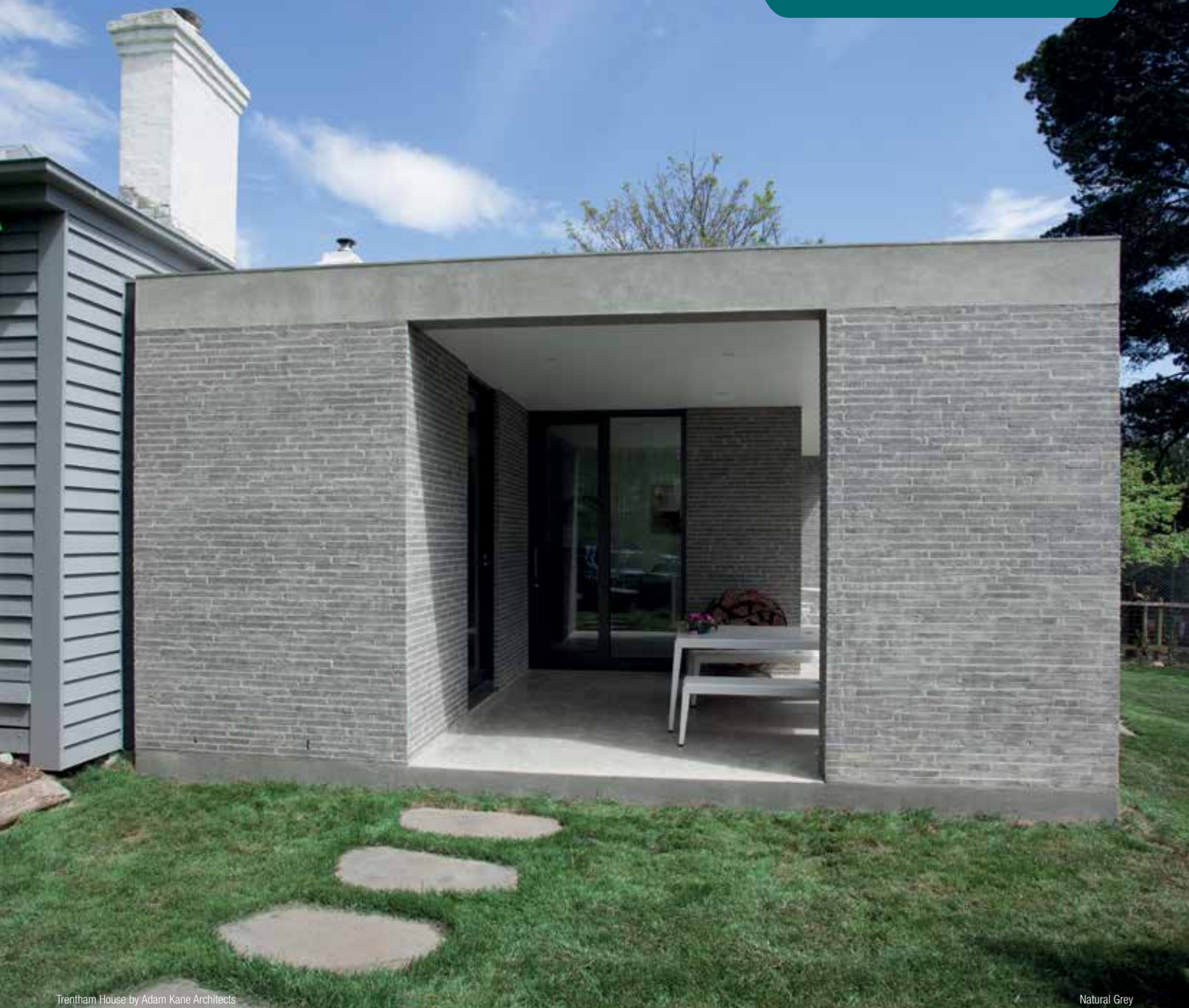
191 George Street Scoresby
(03) 9264 6615

Hume Bricks & Pavers

8 Metrolink Circuit Campbellfield
(03) 9305 1752

Peninsula Selection Centre

Home Innovations Selection Centre
Shop 10, Frankston Power Centre
111 Cranbourne Rd, Frankston
(03) 8738 9036



Trentham House by Adam Kane Architects

Natural Grey

Trentham House

Trentham House - Adam Kane Architects

The Trentham House's concrete and masonry extension was designed with an existing 1890's weatherboard home while maximizing natural light to the new spaces.

The materiality of the facade creates a sense of permanence and solidity. The slender proportions contribute to the horizontality of the modern extension while also referencing the period home's weatherboards. The bricks, laid in a random set-out, were washed with a slurry of white mortar to soften their appearance.

Sound and Thermal Attributes

The sound insulation qualities of masonry blocks out noise better than traditional building materials, resulting in a quieter home environment. Due to their mass, concrete masonry products slow the transfer of external temperature fluctuations into internal living areas, thereby reducing the need for heating and cooling devices.

A strong performer in the residential category, this friendly extension to an 1890's weatherboard home shows what can be done with clever use of masonry.

Horbury Hunt Award 2016



Trentham House by Adam Kane Architects

Natural Grey

Overview

A traditional fine textured smooth finish block with colours and accessories to match with a range of different sizes. All Designer Range blocks are manufactured using water resistant and efflorescence resistance technology.

Colour Range



Alabaster



Sandune



Almond



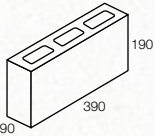
Charcoal



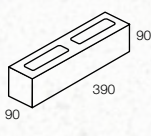
Pearl Grey

Texture & Design

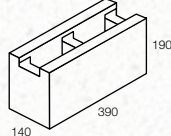
- Smooth texture
- Water resistant
- Efflorescence resistant
- Modern finish
- Clean straight lines
- Different Sizes
- Mix and match colours and sizes
- Residential and commercial uses



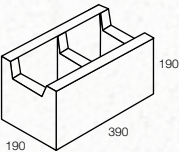
10.01
Standard
12.0 kg
149 per pallet



10.71
Half Height Hollow
5.6 kg
300 per pallet

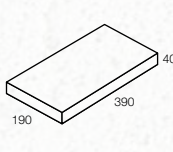


15.20*
Universal Hollow
12.5 kg
120 per pallet
Note: Each pallet of 15.20 is packaged with 1 in 4 universal 2 closed ends

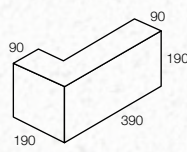


20.20*
Universal Hollow
15.5 kg
90 per pallet

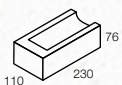
Note: Each pallet of 20.20 is packaged with 1 in 3 Universal 2 closed ends



ArenaPave 190x390
Capping
6.9 kg
216 per pallet



10.26SM
Corner Return Solid
17.8 kg
96 per pallet



Smooth face Designer Range*
3.8 kg
450 per pallet
≥ 10 MPa

Note: 1 in every 7 bricks made is solid



20 Litre Drum
20 litres will lay up to 1750 blocks

* Made to order.
Lead times apply.



Pearl Grey



Almond

Overview

With a split face texture that gives the block depth and feel, with colours and accessories to match with a range of different sizes. All Designer Range blocks are manufactured using water resistant and efflorescence resistance technology.

Colour Range



Alabaster



Sandune



Almond



Charcoal



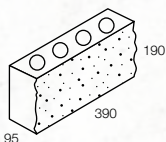
Pearl Grey



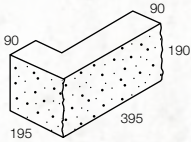
Sandstone Blend

Texture & Design

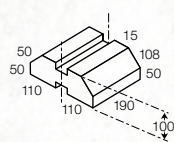
- Split Face texture
- Water resistant
- Efflorescence resistant
- Different Sizes
- Mix and match colours and sizes
- Residential and commercial uses



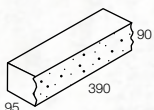
10.101
Standard Split Face
14.0 kg
108 per pallet
1 in 6 "universal" for ½ or ¾, to bolster on site.



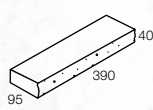
10.26SP
Split Corner
22.0 kg
80 per pallet



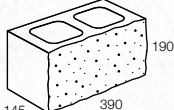
10.39
Double Sill
7.9 kg
220 double units per pallet. Bolster on site.



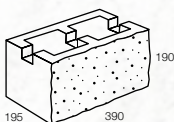
10.109
Half Height
7.3 kg
216 per pallet



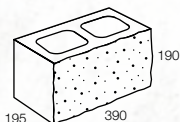
10.117
Quarter Height
3.5 kg
432 per pallet



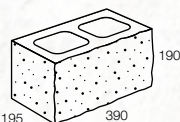
15.101*
Standard Split Face
15.5 kg
120 per pallet



20.142*
Channel
17.0 kg
90 per pallet



20.101*
Standard Split Face
20.7 kg
90 per pallet



20.192*
Split Corner
21.9 kg
72 per pallet



20 Litre Drum

20 litres will lay up to 1750 blocks

* Made to order. Lead times apply.



Charcoal



Almond



Aspect Range Platinum & Pearl Grey Smooth

The Right Product

National Masonry has a product suitable to use in all areas of building and construction. From the humble concrete render brick to the premium hand selected exposed aggregate block, National Masonry has the right product for your project. With a great selection of colours, sizes and textures, National Masonry's products are regularly used by some of Australia's biggest builders, designers and architects. You will find our products used in some of Melbourne's most prominent buildings such as the MCG, Chadstone Shopping Centre and Melbourne University.

The National Masonry Deer Park site boasts over 40 years in manufacturing experience, so it makes sense that we can solve your building needs with both traditional and made to order products. Supplying blocks for Basements, Facades, Structural and Non- Structural applications National Masonry products will make your project stand out.

National Masonry products are non-combustible and are manufactured to Australian Standard AS 3700 and AS 4455.

Commercial



Charcoal Honed



Alabaster Split Face & Alabaster Polished

Let National Masonry be part of
your next project, so go ahead...

Call us today



Call your local branch during office hours. 9361 6400

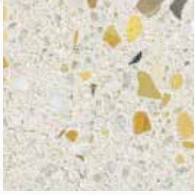
Apartments and Basements



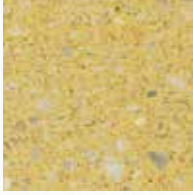
Overview

Exposed Aggregate block with a matt finish. Hand selected to guarantee quality. Stand out with this range of honed blocks. All Designer Range blocks are manufactured using water resistant and efflorescence resistance technology.

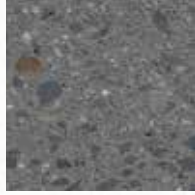
Colour Range



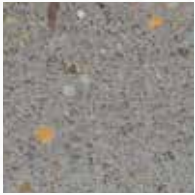
Alabaster



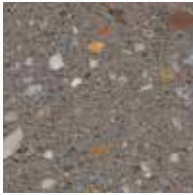
Almond



Charcoal



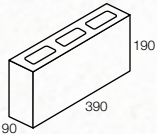
Pearl Grey



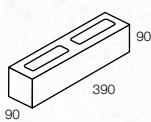
Jasper

Texture & Design

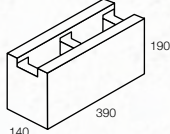
- Exposed aggregate
- Water resistant
- Efflorescence resistant
- Matt finish
- Modern finish
- Clean straight lines
- Modern colours
- Stylish and distinctive
- Residential and commercial uses



10.01
Standard
12.0 kg
149 per pallet

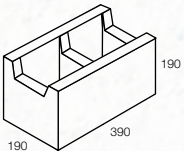


10.71
Half Height Hollow
5.6 kg
300 per pallet



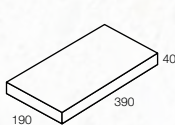
15.20*
Universal Hollow
12.5 kg
120 per pallet

Note: Each Pallet of 15.20 is packaged with 1 in 4 Universal 2 closed ends



20.20*
Universal Hollow
15.5 kg
90 per pallet

Note: Each pallet of 20.20 is packaged with 1 in 3 universal 2 closed ends



ArenaPave 190x390
Capping
6.9 kg
216 per pallet



20 Litre Drum
20 litres will lay up to 1750 blocks

* Made to order. Lead times apply. Honed ends for corners are available.



Charcoal



Pearl Grey & Charcoal

Overview

Exposed aggregate block with a polished finish. Hand selected to guarantee quality. Stand out from the crowd with the range of polished blocks. All Designer Range blocks are manufactured using water resistant and efflorescence resistance technology.

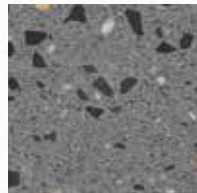
Colour Range



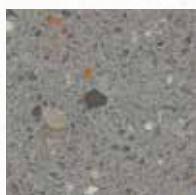
Alabaster



Almond



Charcoal



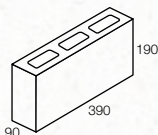
Pearl Grey



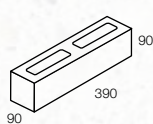
Jasper

Texture & Design

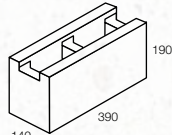
- Exposed aggregate
- Water resistant
- Efflorescence resistant
- Polished finish
- Modern colours
- Clean straight lines
- Stylish and distinctive
- Residential and commercial uses



10.01
Standard
12.0 kg
149 per pallet

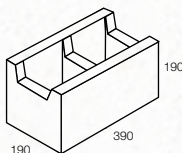


10.71
Half Height Hollow
5.6 kg
300 per pallet



15.20*
Universal Hollow
12.5 kg
120 per pallet

Note: Each pallet of 15.20 is packaged with 1 in 4 universal 2 closed ends



20.20*
Universal Hollow
15.5 kg
90 per pallet

Note: each pallet of 20.20 is packaged with 1 in 3 universal 2 closed ends



ArenaPave 190x390
Capping
6.9 kg
216 per pallet



20 Litre Drum
20 litres will lay up to 1750 blocks

* Made to order. Lead times apply. Polished ends for corners are available.



Pearl Grey

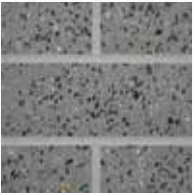


Charcoal

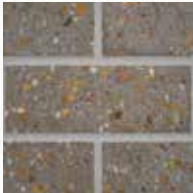
Overview

With a polished finish, this range of traditional size bricks will give any modern project an innovative, stylish and distinctive look. Combining a colour palette to blend and highlight with many other building materials with subtle, yet distinctive hues of the polished aggregate, the Aspect Range will be a highlight in any residential or commercial application. Aspect polished bricks are manufactured using water resistant and efflorescence resistance technology.

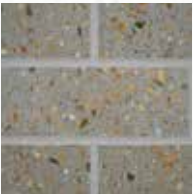
Colour Range



Carbon



Copper



Platinum

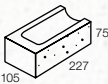


Titanium

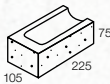
Texture & Design

- Traditional size bricks
- Polished finish
- Exposed aggregate
- Modern colours
- Water resistant
- Clean straight lines
- Exposed aggregate

Specifications			
Face Only	227 x 75 x 105	50 units per m ²	Made to order. Lead times apply.
Face and End	224 x 75 x 105	Headers must be ordered as a separate component	Made to order. Lead times apply.



Face Only
3.8 kg
450 per pallet



Face and End
3.8 kg



20 Litre Drum
20 litres will lay up to 3500 bricks



Platinum

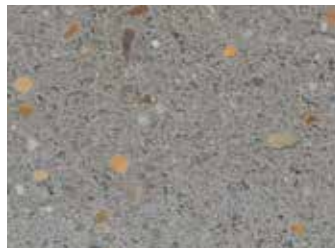


Carbon



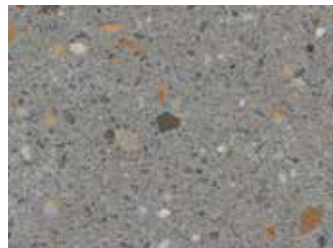
Smooth Face

A finely textured finish created through the standard moulding process.



Honed Face

The honed process grinds 2-3mm from the block surface, producing a matt exposed-aggregate finish.



Polished Face

This involves taking a Honed Face and putting it through the additional polishing process. This enriches the colour of the aggregates.



Split Face

The splitting process produces a bold textured, exposed aggregate finish.

Block laying

- Good laying practice and site procedures are necessary for controlling efflorescence to a reasonable level; it is desirable to store masonry off the ground and loosely cover with a waterproof membrane during rain.
- Poor building practice such as partially built walls left uncovered during rain, allow rainwater to enter block cavities and leach free lime to the surface.
- With the progression of the wall, it is essential the blockwork is kept clean from mortar smears. Acid must NOT be used for cleaning concrete masonry walls.

Mortar

- Designer Range blocks are manufactured using Tech Dry™ water resistant and efflorescence resistance additive during the manufacturing process. To complete the system, a mortar additive can be used in the mortar mix. National Masonry® supply TECH-DRYAD mortar additive. The consumption of additives varies significantly, 20 litres of mortar additive may lay approximately 1000-1500 Blocks.
- Lime and plasticiser must not be added to mortar using TECH-DRYAD.
- The preferred finish for mortar joints in Designer Blockwork is rolled ironed finish which provides the following benefits; the iron tool compresses the mortar at the face of the masonry, making it denser and more durable. The mortar is pushed against the top and bottom faces of the blocks, improving the bond between the mortar and block.

Block Filling

- The grout used to fill the cores of Designer Range block work walls should be specified as follows, concrete 20MPa strength & Cement Content not less than 300kg/m³.
- Coarse Aggregate of not more than 10mm.
- For added protection against efflorescence caused by the leaching of the lime from the blockfill, BASF MASTERPEL 240 or EQUIVALENT added to the blockfill mix will assist in this cause.
- All corefilled walls must be cleaned thoroughly immediately following filling to ensure lime leaching from the corefill through unprotected capillary pores does not stain the surface of the blockwork.

Capping and Flashing

- Walls and parapets should have protection such as flashings or capping to the top of the surface. A common source of staining and efflorescence of masonry is water entering walls and cavities at this point via exposed horizontal surface.

Cleaning

- The cleaner the block layer leaves the wall the easier the cleaning task will be. However, in most cases, some additional cleaning will be required to achieve the desired outcome.
- The appropriate cleaning method depends on the purpose of the cleaning and on the extent of the work to be done. CMAA Concrete Masonry Structures Cleaning and Maintenance Table 4.2 offer a general guide.
- ENVIRONEX-ANTI-EFF or EQUIVALENT is especially suited to the removal of efflorescence from concrete, clay surfaces. Please refer manufacturer's instructions for applying.
- It is not recommended to use hydrochloric acid on masonry products.

Efflorescence

- Good laying practice and site procedures are necessary for keeping efflorescence to a reasonable level.
- Efflorescence does not affect the structural integrity or strength of the product.
- It may be removed by stiff brush or the application of ENVIRONEX-ANTI-EFF OR EQUIVALENT. Read suppliers instructions before use.
- Wall sealers also help to prevent future efflorescence, mould growth and general staining by reducing water absorption from rain.

The use of Tech Dry™ in the production of Designer Range blocks and the additives recommended for use in the above literature are to help mitigate the appearance of efflorescence, it does not guarantee that it will not occur.

The presence of and/or severity of efflorescence is not a manufacturing fault and no warranty or consequential damages are accepted by the manufacturer.

Construction Notes

1. External Designer Range walls should be laid with Designer Range Mortar Additive in accordance with AS3700.
2. Blocks must be kept dry on site before use and when laid. Freshly laid walls must be covered overnight and when rain interrupts work in order to prevent moisture entering the cores of the blocks.
3. Ensure that perpends are buttered on each side with a void in the middle. The mortar joints should be well ironed to provide a tight sealed joint.
4. Ensure mortar smears are removed before mortar sets as acid cleaning later can discolour the masonry.
5. It is important that retaining walls have good drainage behind the wall.
6. For non-grouted masonry, a horizontal weep hole at the floor joint of each core should be provided to drain water that may be trapped inside the blocks. Partially fill the bottom course blocks with 20mm blue metal or similar drainage material to prevent mortar droppings from blocking the weep holes.

Block & Brick Estimator

Block & Brick Estimator	Full Height	Half Height	Standard Brick	Quick Brick
Masonry unit face size (L x H mm)	390 x 190	390 x 90	230 x 76	230 x 162
No. Units per m ²	12.5	25	50	25

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.

	Grey Block		Designer Range	
	Mix in 1:1:6 proportions		Mix in 1:5 proportions	
M3	Cement	7 bags (40kg each)	Cement	8 bags (40kg each)
	Lime	5 bags (20kg each)	Designer Range Additive	8 litres
	Sand	1.2m ³	Sand	1.2m ³
M4	Mix in 1:0.5:4:5 proportions		Mix in 1:4 proportions	
	Cement	9 bags (40kg each)	Cement	10 bags (40kg each)
	Lime	3 bags (20kg each)	Designer Range Additive	27 litres
	Sand	1.2m ³	Sand	1.2m ³

Note: Use clean, sharp sand and allow 20% for bulking.

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 follow:

- Grout to comply with AS3700 Clause 11.7.
- Characteristic Compressive Strength 20MPa.
- Cement content not less than 300kg/m³.
- Round aggregate (if any) not more than 10mm.
- Clean sand (1.2m³)
- 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, e.g. 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.

Core Fill Quantities	
Block Type	1m ³ Grout
15.48, 15.42, 15.20	190
15.101	200
20.42, 20.20	120
20.101	125
20.48	100
30.48	65
Mortarless 200	125

Pallet Return



All pallets remain the property of National Masonry®

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Use our Pallet Collection Form on our website.

www.nationalmasonry.com.au

Call to Arrange Pickup

Call your local branch during office hours.

03 9361 6400 or 03 9361 6443

Contact

To find your closest National Masonry® stockist, to receive brochures or to learn more about our products, call us or visit our website at www.nationalmasonry.com.au



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Deer Park

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Fax: (03) 9363 6008

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Fax: (07) 3271 1815

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Biggera Waters

Gold Coast QLD 4216

Phone: (07) 5552 3300

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North Queensland

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