

Block & Brick

PRODUCT GUIDE



SOUTH QUEENSLAND



Contents

The National Masonry® range



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.

About National Masonry®

National Masonry® has quickly established itself as the industry leader with exceptional product quality and outstanding customer service with a clear vision of customers for life. We are obsessed with ensuring every customer has a memorable experience with us and to leave you with no doubt that you have made the right choice.

National Masonry®, the new benchmark in masonry.



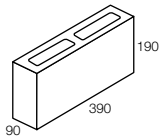
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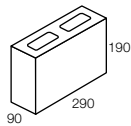
Lightweight Concrete Blocks

All available in Natural Grey.

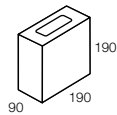
100mm Series $(f'_{uc} = 15\text{MPa})$



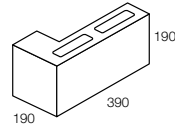
10.01
Standard
8.5 kg
195 per pallet



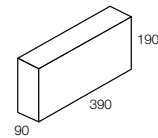
10.02
Three Quarters
8.1 kg
240 per pallet



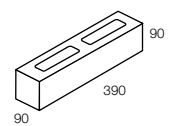
10.03
Half
5.1 kg
360 per pallet



10.25
Corner Return
11.4 kg
120 per pallet

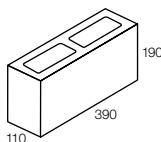


10.31
Solid
12.4 kg
156 per pallet

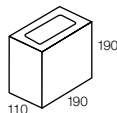


10.71
Standard Half Height
4.0 kg
390 per pallet

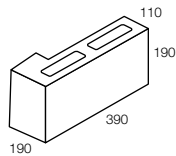
120mm Series 2 hour insulation FRL $(f'_{uc} = 15\text{MPa})$



12.01
Standard
11.6 kg
150 per pallet

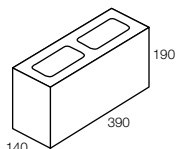


12.03
Half
6.0 kg
250 per pallet

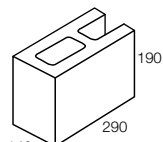


12.725
Corner Return
16.58 kg
120 per pallet

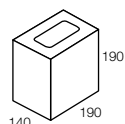
150mm Series 2 hour insulation FRL $(f'_{uc} = 15\text{MPa})$



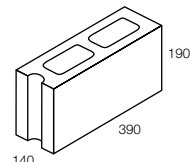
15.01
Standard
10.88 kg
144 per pallet



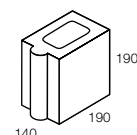
15.02
Three Quarter
8.9 kg
160 per pallet



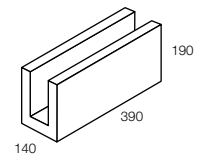
15.03
Half
5.6 kg
240 per pallet



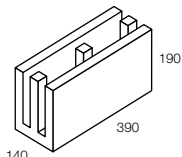
15.09
Control Joint
12.4 kg
120 per pallet



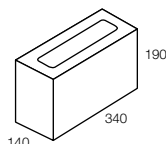
15.10
Control Joint Half
7.5 kg
240 per pallet



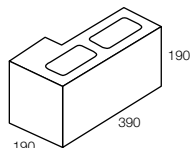
15.12
Lintel
16.2 kg
120 per pallet



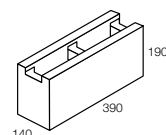
15.20
Knockout Bond Beam
12.6 kg
120 per pallet



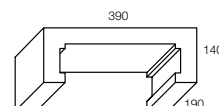
15.22
Seven Eighths
11.6 kg
125 per pallet



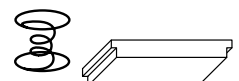
15.25
Corner Return
12.9 kg
108 per pallet



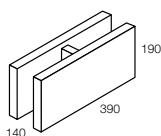
15.42
Channel
10.5 kg
144 per pallet



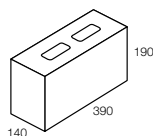
15.45
Cleanout
8.1 kg
120 per pallet



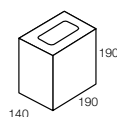
50.45
Biscuit & Spring
3.6 kg
360 per pallet



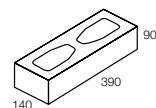
15.48
H Block
11.01 kg
144 per pallet



15.709
Thick Wall
15.0 kg
120 per pallet



15.703
Thick Wall Half
8.5 kg



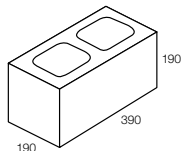
15.71
Standard Half Height
5.0 kg
288 per pallet

Pallet contains
10 x 15.703

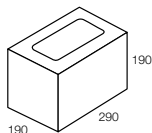
Lightweight Concrete Blocks

All available in Natural Grey.

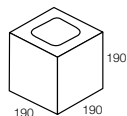
200mm Series 2 hour insulation FRL ($f'_{uc} = 15\text{MPa}$ unless noted)



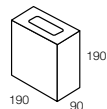
20.01
Standard
12.79 kg
108 per pallet



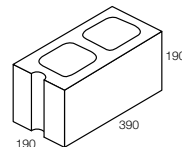
20.02
Three Quarters
9.4 kg
144 per pallet



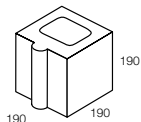
20.03
Half
6.6 kg
180 per pallet



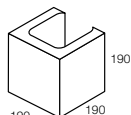
20.04 (10.03)
Quarter
6.5 kg
360 per pallet



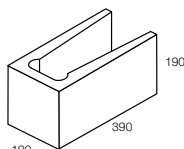
20.09
Full Control Joint
14.2 kg
72 per pallet
**1 pallet = 672 x 20.09
and 20.10 (Sold in pairs)**



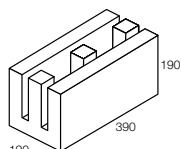
20.10
Control Joint Half
8.5 kg
72 per pallet



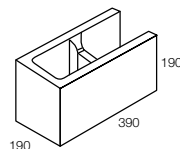
20.13
Half Lintel
8.9 kg
220 per pallet



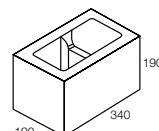
20.18
Deep Lintel
12.5 kg
125 per pallet



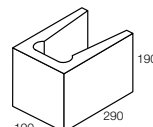
20.20
Knockout Bond Beam
13.4 kg
108 per pallet



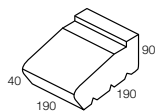
20.21
Knockout Bond Corner
13.63 kg
108 per pallet



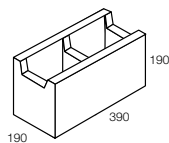
20.22
Seven Eighths
12.6 kg
108 per pallet



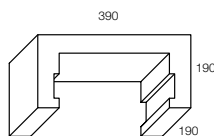
20.25
Three Quarter Lintel
10.0 kg
165 per pallet



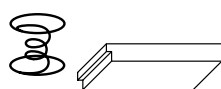
20.40
Half Height Sill
4.48 kg
360 per pallet



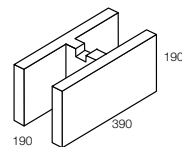
20.42
Channel
12.62 kg
108 per pallet



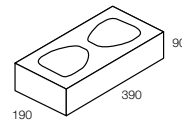
20.45
Cleanout
11.3 kg
108 per pallet



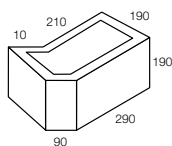
50.45
Biscuit & Spring
3.6 kg
120 per pallet



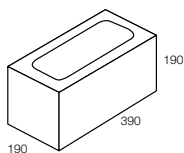
20.48
H Block
11.6 kg
108 per pallet



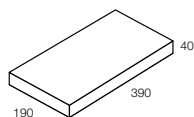
20.71
Standard Half Height
6.22 kg
216 per pallet



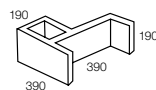
20.748
Squint
12.1 kg
90 per pallet



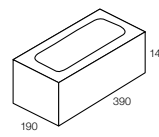
20.925
Single Core
16.6 kg
90 per pallet



50.31
Capping Tile
5.5 kg
270 per pallet

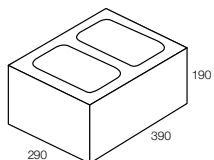


20.60
Bonded PR
17.9 kg
60 per pallet

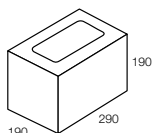


20.140
Standard
11.0 kg
108 per pallet

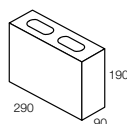
300mm Series 2 hour insulation FRL ($f'_{uc} = 15\text{MPa}$ unless noted)



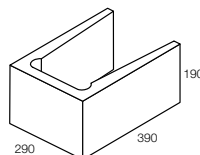
30.01
Standard
18.9 kg
72 per pallet



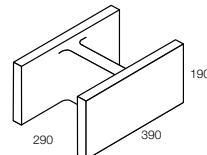
30.03 (20.02)
Half
9.7 kg
120 per pallet



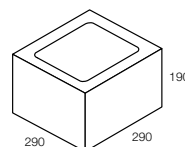
30.04 (10.02)
Quarter
8.1 kg
240 per pallet



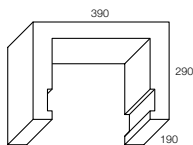
30.18
Deep Lintel
17.1 kg
95 per pallet



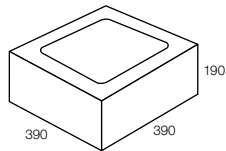
30.48
H Block
13.67 kg
72 per pallet



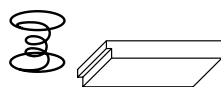
30.02
Three Quarter
14.3 kg
80 per pallet



30.45
Cleanout
14.8 kg
60 per pallet



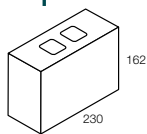
40.925
400 Pier Block
23.8 kg
54 per pallet



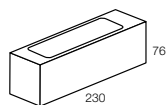
50.45
Biscuit & Spring
3.6 kg
120 per pallet

Bricks

Speed-E-Bricks (All available in Natural Grey)

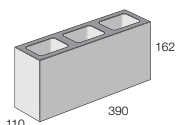


12.796
Speed - E (loadbearing)
6.9 kg
250 per pallet

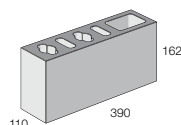


12.715
Speed - E
3.4 kg
600 per pallet

Rippas



12.162.01
Standard
7.0 kg
180 per pallet



12.162.11
Universal
(1 in 5 with 12.162.01)
8.0 kg
180 per pallet

Block Accessories

Accessories



Bagged Mortar Sand
1.2t (1m³)



GP Grey Cement
20kg Bag



Mortar Additive
Tech Dry
20L



Anti EFF
Efflorescence Cleaner
5L

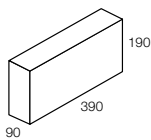


Mortar Plasticiser
1L

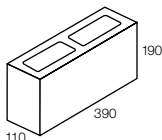
Designer Range

Available in a range of colours and textures.

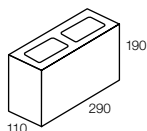
Smooth, Shot-Blast, Honed and Polished Face



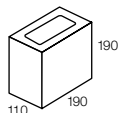
10.31
Solid
14.8 kg
156 per pallet



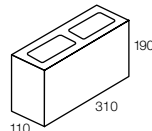
12.01
Standard
11.6 kg
150 per pallet



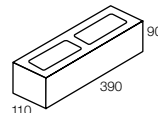
12.02
Three Quarters
8.6 kg
200 per pallet



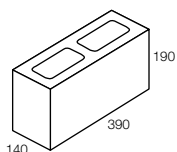
12.03
Half
6.0 kg
250 per pallet



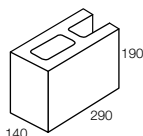
12.25
Corner
9.2 kg
150 per pallet



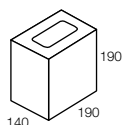
12.71
Half Height
8.1 kg
300 per pallet



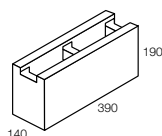
15.01
Standard
12.7 kg
144 per pallet



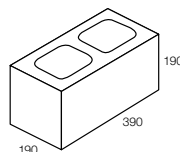
15.02
Three Quarters
10.6 kg
160 per pallet



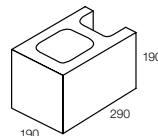
15.03
Half
6.7 kg
240 per pallet



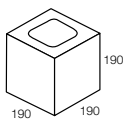
15.42#
Channel
12.5 kg
144 per pallet



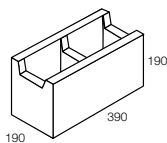
20.01
Standard
16.2 kg
108 per pallet



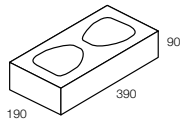
20.02
Three Quarters
11.5 kg
144 per pallet



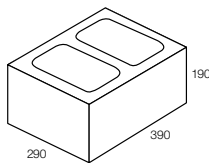
20.03
Half
9.0 kg
180 per pallet



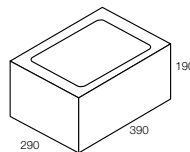
20.42#
Channel
15.9 kg
108 per pallet



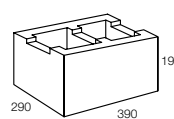
20.71
Standard Half Height
7.6 kg
216 per pallet



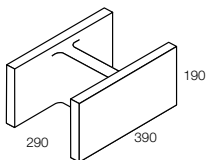
30.01*
Standard
18.9 kg
72 per pallet



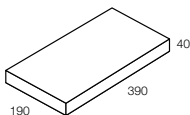
30.925#
Standard
17.5 kg
72 per pallet



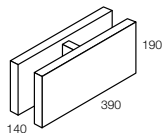
30.42#
Channel
18.5 kg
72 per pallet



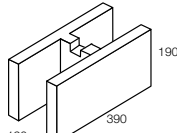
30.48*
Standard
13.67 kg
72 per pallet



50.31
Capping Tile
6.6 kg
270 per pallet

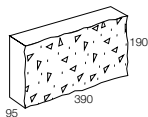


15.48*
H Block
11.01 kg
144 per pallet

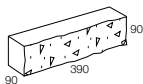


20.48*
H Block
11.6 kg
108 per pallet

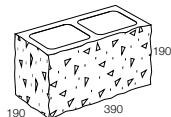
Split Face



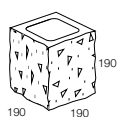
10.101
Standard
14.8 kg
144 per pallet



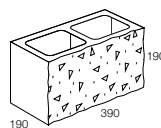
10.109
Standard Half Height
5.4 kg
216 per pallet



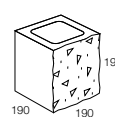
20.139
Corner Return
18.9 kg
90 per pallet



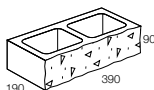
20.141
Corner Return Half
12.3 kg
180 per pallet



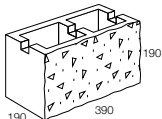
20.121
Standard
17.5 kg
108 per pallet



20.123
Half
11.1 kg
180 per pallet



20.127
Standard Half Height
7.5 kg
180 per pallet



20.142
Channel
17.0 kg
108 per pallet

* Note: Smooth Face only

Note: Shot-blast, Honed & Polished only

Designer Range

Available in a range of colours and textures.

Architectural Designer Blocks Overview

National Masonry's Designer Range has the leading range of decorative masonry blocks available. Blocks are available in Nine contemporary colours in either a smooth face, honed, shot-blast, polished or split face finishes. Whether large or small National Masonry's range of decorative blocks will give your next project the winning edge.

Five Innovative Textures

Smooth Face – A finely textured finish created through the standard moulding process. Both faces are suitable for face block work. Care is required when laying 2 face walls as variation in width of up to +/- 2mm may be present.

Value Added Finishes

Value added finished masonry is supplied as a single face product. When only one face is value added, the back side of the block may not be suitable as a face finish due to the value adding process. If both faces are value added, both faces will be suitable for a face work but care will be required when laying as there may be 2-5mm difference in the width of the individual blocks due to the honing / polishing process.

Shot-Blast Face – This process subtly exposes the aggregates, producing a weathered, sawn stone-like finish.

Honed Face – The honing process grinds 2-3mm from the block surface, producing a matt exposed-aggregate finish.

Polished Face – This involves producing a denser block which is honed and then buffed. Polishing enriches the colour of the aggregates. The finely finished polished surface is ideal for feature walls, trims and banding.

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

Important Designer Range Information

Lead Time – Lead times apply to all coloured blocks. Longer lead times apply to Honed, Polished, and Shot-Blast Finishes as the product must be cured to harden sufficiently before processing.

Colour and Texture Variation – Some variation in colour may occur due to natural variations in raw materials. Colour variation can also occur from batch to batch making it essential to order all product requirements at the same time. National Masonry® recommends part size blocks are cut on site to maintain colour consistency. Blocks can be cut to order.

Blending – To obtain a consistent finish and mitigate colour variation, National Masonry® strongly recommends "blending" which is drawing product from multiple pallets on-site.















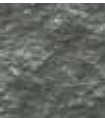



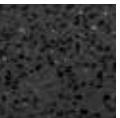













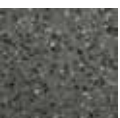












Block Storage – Blocks must be kept dry on site before use and when laid. Freshly laid walls must be covered overnight and when rain interrupts work in order to prevent moisture entering the cores of the blocks. Failing to do this will increase the likelihood of efflorescence.

Mortar – Coloured Designer Range blocks contain an efflorescence inhibitor (Tech-Dry®). To complete the system, an additive must be used in mortar mix. National Masonry® supply and recommend TECH-DRYAD Mortar Additive. The consumption of additive varies significantly, 20 litres of mortar additive may lay approximately 1000-1500 Tech Dry Blocks.

Sealing – All Designer Blocks should be cleaned and sealed with a quality penetrating sealer after installation.

Failure to do so dramatically increases the likelihood and severity of efflorescence and general staining.

Architectural Designer Blocks Colour and Texture Guide

	Smooth Face	Shot-Blast Face	Honed Face	Polished Face	Split Face
Alabaster					
Pearl Grey					
Platinum NEW					
Charcoal					
Wilderness					
Terrain					
Cocoa NEW					
Paperbark					
Almond					

All colours and textures are made to order.

Block & Brick Estimator

Tips and details

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 10.7.
- Characteristic Compressive Strength 20MPa.
- Cement content not less than 300kg/m³.
- Round aggregate (if any) not more 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, 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
15.01	230
15.48	210
20.01	150
20.48	125
30.01	90
30.48	69
40.925	50



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To find your closest **National Masonry®** stockist,
to receive brochures or to learn more about our products,
call **3271 9292** or visit our website at **www.nationalmasonry.com.au**

Colour variations occur from batch to batch. Colours shown are indicative only and should not be used for final selection. Products ordered should be chosen from actual samples current at the time of order and are subject to availability. Photographs in this brochure are only representative of National Masonry® products and the appearance and effect that may be achieved by their use. Samples, brochures and displays should be viewed as a guide only. Customers should ensure all delivered products are acceptable, and any concerns about products are made prior to laying. All prices are subject to availability and can be withdrawn or varied without notice.

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