

# **NM** NATIONAL<sup>®</sup> **MASONRY**

MAKERS OF FINE BLOCKS & PAVERS

## Grey Block Product Guide

VICTORIA

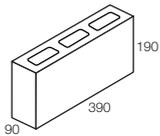


# Block Product Guide

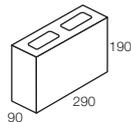
## 100 Series

### Grey Blocks

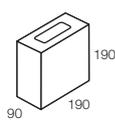
#### Hollow 100mm Series 60 minutes fire rating ( $f_{uc} \geq 10\text{MPa}$ FRL = 60 Srf $\leq 22.5$ )



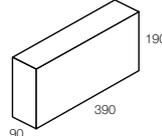
**10.01AG\***  
Standard Hollow  
11.1 kg  
149 per pallet



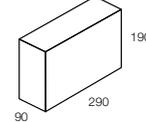
**10.02AG**  
Three Quarters  
8.7 kg  
192 per pallet



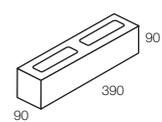
**10.03AG**  
Half  
5.5 kg  
252 per pallet



**10.31AG\***  
Standard Solid  
14.2 kg  
139 per pallet



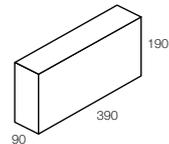
**10.32AG**  
Three Quarter  
10.2 kg  
192 per pallet



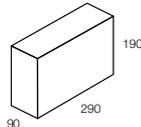
**10.71AG\***  
Half Height Hollow  
5.6 kg  
300 per pallet

### Fire Rated Blocks

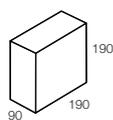
#### Solid 100mm Series 120 minutes fire rating ( $f_{uc} \geq 10\text{MPa}$ FRL = 90 Srf $\leq 22.6$ )



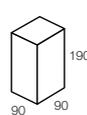
**10.31FR\***  
Standard Solid  
11.6 kg  
139 per pallet



**10.32FR**  
Three Quarter  
10.2 kg  
192 per pallet



**10.33FR**  
Half  
6.8 kg  
252 per pallet



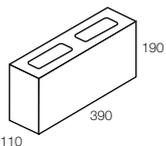
**10.34FR**  
Quarter  
3.3 kg  
504 per pallet

## 120 Series

### Fire Rated Blocks

#### Reduced Core 120mm Series

90 minutes fire rating ( $f_{uc} \geq 8\text{MPa}$  FRL = 90 Srf  $\leq 22.6$ )

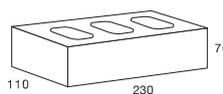


**12.01FR\***  
Reduced Core  
13.4 kg  
120 per pallet

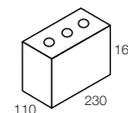
**Note:**  
1 in 5 "universal" for 1/2 or 3/4, to bolster on site.

#### Bricks

90 minutes fire rating



**Core Cast Brick\***  
3.3 kg  
500 per pallet  
 $\geq 10$  MPa Ash Grey



**Quick Brick\***  
6.8 kg  
250 per pallet

**Note:**

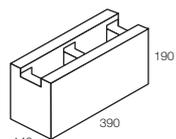
- \* These products are sold by the full pallet (A part pallet will incur a part pallet make-up fee)
- Lead time required for Melbourne metropolitan delivery of Grey Block is 1-3 working days
- $f_{uc}$  – characteristic unconfined compressive strength
- FRL – Fire resistance level

# Block Product Guide

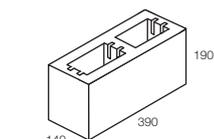
## 150 Series

### Grey Blocks

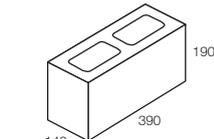
#### Hollow 150mm Series 60 minutes fire rating ( $f_{uc} \geq 15\text{MPa}$ FRL = 60 Srf $\leq 22.5$ ) suitable for concrete filling



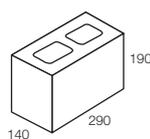
**15.42UNV\***  
Universal Hollow  
12.8 kg  
120 per pallet



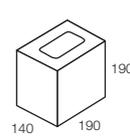
**Note:**  
→ Each pallet of 15.42UNV is packaged with 1 in 4 Universal 2 Closed Ends



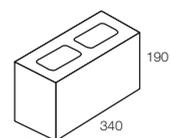
**15.01AG\***  
Standard Hollow  
12.5 kg  
120 per pallet



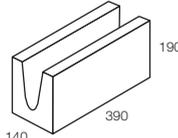
**15.02AG**  
Three Quarter  
10.5 kg  
128 per pallet



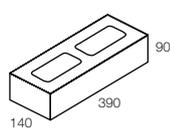
**15.03AG**  
Half  
6.9 kg  
192 per pallet



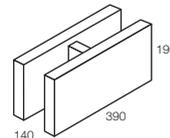
**15.22AG**  
Corner Block  
12.3 kg  
108 per pallet



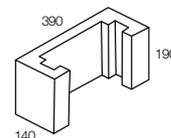
**15.12AG**  
Bond Beam  
17.8 kg  
96 per pallet



**15.71AG\***  
Half Height Hollow  
7.5 kg  
216 per pallet

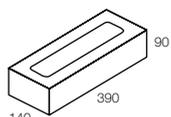


**15.48AG\***  
'H' Block  
14.0 kg  
120 per pallet

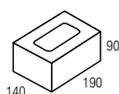


**15.45**  
Cleanout  
10.4 kg  
120 per pallet

#### Solid 150mm Series 120 minutes fire rating ( $f_{uc} \geq 15\text{MPa}$ FRL = 120 Srf $\leq 20$ )

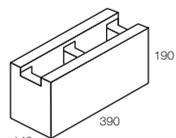


**15.83AG**  
Half Height Solid (with frog)  
10.0 kg  
168 per pallet

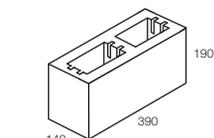


**15.85AG**  
Half (with frog)  
5.1 kg  
336 per pallet

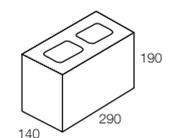
#### Light Weight Structural 120 minutes fire rating ( $f_{uc} \geq 15\text{MPa}$ FRL = 120 Srf $\leq 22.6$ ) suitable for concrete filling



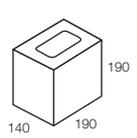
**15.20LWS\***  
Light Weight  
11.6 kg  
144 per pallet



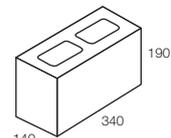
**Note:**  
→ Each pallet of 15.20LWS is packaged with 1 in 4 Universal 2 Closed Ends



**15.02LWS**  
Three Quarter  
8.7 kg  
128 per pallet



**15.03LWS**  
Half  
6.0 kg  
192 per pallet



**15.22LWS**  
Corner Block  
10.6 kg  
108 per pallet

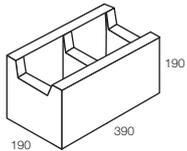
**Note:**

- \*These products are sold by the full pallet (A part pallet will incur a part pallet make-up fee)
- Lead time required for Melbourne metropolitan delivery of Grey Block is 1-3 working days
- $f_{uc}$  – characteristic unconfined compressive strength
- FRL – Fire resistance level

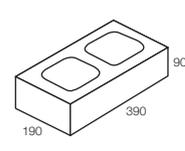
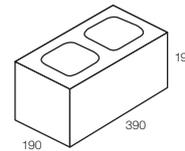
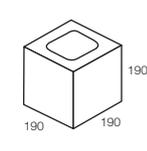
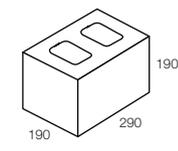
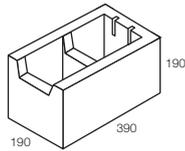
# Block Product Guide

## 200 Series Grey Blocks

**Hollow 200mm Series** 60 minutes fire rating ( $f_{uc} \geq 15MPa$  FRL = 60 Srf  $\leq 22.5$ ) suitable for concrete filling



**20.42UNV\***  
Channel/Notch Block  
14.3 kg  
108 per pallet



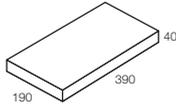
**Note:**  
Each pallet of 20.42UNV is packaged with 1 in 3 Universal 1 Closed End

**20.02AG**  
Three Quarter  
13.4 kg  
96 per pallet

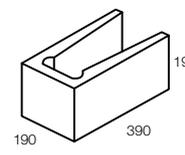
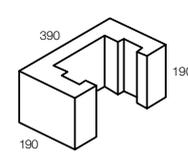
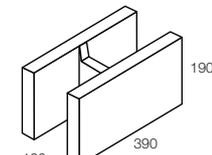
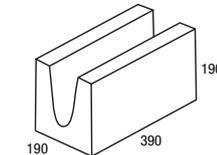
**20.03AG**  
Half  
8.6 kg  
144 per pallet

**20.01AG\***  
Standard Hollow  
15.9 kg  
90 per pallet

**20.71AG\***  
Half Height Hollow  
7.3 kg  
162 per pallet



**5031AG 190x390**  
Capping  
6.7 kg  
216 per pallet.



**20.12AG**  
Lintel Bond Beam  
22.6 kg  
72 per pallet

**20.48AG\***  
'H' Block  
14.2 kg  
90 per pallet

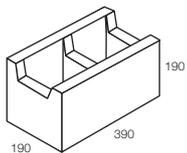
**20.45**  
Cleanout  
11.4 kg  
108 per pallet

**20.18**  
Deep Lintel  
14.7 kg  
108 per pallet

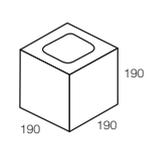
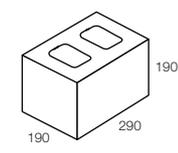
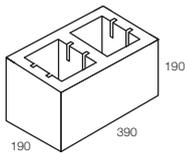
**20.03C**  
Curved Wall  
6.3 kg  
180 per pallet

## Fire Rated Blocks

**Light Weight Structural** 120 minutes fire rating ( $f_{uc} \geq 15MPa$  FRL = 120 Srf  $\leq 22.6$ ) suitable for concrete filling



**20.20LWS\***  
Light Weight  
12.0 kg  
108 per pallet



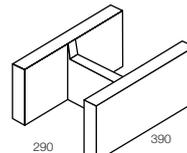
**Note:**  
Each pallet of 20.20LWS is packaged with 1 in 3 Universal 2 Closed Ends

**20.02LWS**  
Three Quarter  
12.2 kg  
96 per pallet

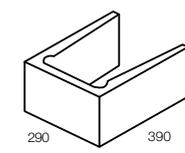
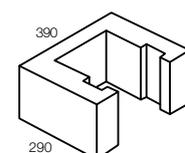
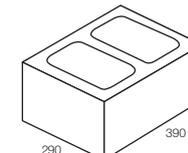
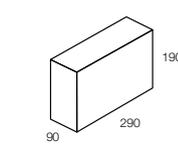
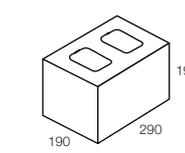
**20.03LWS**  
Half  
7.6 kg  
144 per pallet

## 300 Series Grey Blocks

**Hollow 300mm Series** 240 minutes fire rating when grout filled ( $f_{uc} \geq 15MPa$  FRL = 240 Srf  $\leq 36$ ) suitable for concrete filling



**30.48AG\***  
'H' Block  
20.4 kg  
72 per pallet  
 $f'_{uc} \geq 15MPa$



**20.02AG**  
Half and End  
13.4 kg  
96 per pallet

**10.32AG**  
Three Quarter  
10.2 kg  
192 per pallet

**30.01AG**  
Standard  
21.0 kg  
72 per pallet

**30.45**  
Cleanout  
16.30 kg  
60 per pallet

**30.18**  
Deep Lintel  
17.8 kg  
85 per pallet

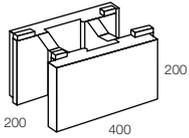
**Note:**

- \* These products are sold by the full pallet (A part pallet will incur a part pallet make-up fee)
- Lead time required for Melbourne metropolitan delivery of Grey Block is 1-3 working days
- $f'_{uc}$  – characteristic unconfined compressive strength
- FRL – Fire resistance level

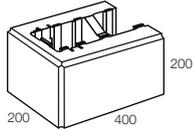
# Block Product Guide

## Mortarless Block System

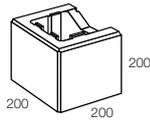
### 200mm Series



**Stretcher Unit\***  
17.5 kg  
60 per pallet



**End & Corner Unit**  
16.9 kg  
60 per pallet



**Half Unit**  
Capping  
9.4 kg  
100 per pallet

**Note:**

- \* These products are sold by the full pallet (A part pallet will incur a part pallet make-up fee)
- Lead time required for Melbourne metropolitan delivery of Grey Block is 1-3 working days
- f'uc – characteristic unconfined compressive strength
- FRL – Fire resistance level

## Accessories



**Mortar Sand Grey**  
1.4 tonne  
Bulk Bag



**Bulk Grout**  
1.4 tonne  
Bulk Bag



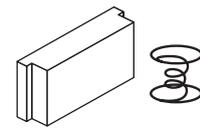
**Lime Juice**  
5.2 kg  
5 Litre bottle



**GP Cement**  
20kg  
72 per pallet



**Lime**  
20kg  
54 per pallet

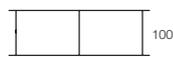


**50.45**  
Biscuit & Spring  
4.1 kg  
120 per pallet

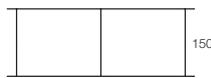
## Joint Reinforcement



**50mm**  
Used for 100mm Series  
Block  
**Note:** Sold in bundles of 20 x 2.9mtr lengths



**100mm**  
Used for 150mm Series  
Block



**150mm**  
Used for 200mm Series  
Block

## Mortar Additive



**20 Litre Drum**  
20 litres will lay up to  
1750 blocks

# Block & Brick Estimator

Block & Brick Estimator	Full Height	Half Height	Quarter Height	Standard Brick	Quick Brick
Masonry unit face size (L x H mm)	390 x 190	390 x 90	390 x 40	230 x 76	230 x 162
No. Units per m <sup>2</sup>	12.5	25	50	50	25

## Material Quantities for 1m<sup>3</sup> of Mortar

- For every 800 full height blocks (390 long x 190 high) or 64m<sup>2</sup> of wall, approximately 1m<sup>3</sup> 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	
<b>M3</b>	Mix in 1:1:6 proportions		Mix in 1:5 proportions	
	Cement	14 bags (20kg each)	Cement	16 bags (20kg each)
	Lime	5 bags (20kg each)	Designer Range Additive	8 litres
	Sand	1.2m <sup>3</sup>	Sand	1.2m <sup>3</sup>
<b>M4</b>	Mix in 1:0.5:4:5 proportions		Mix in 1:4 proportions	
	Cement	18 bags (20kg each)	Cement	20 bags (20kg each)
	Lime	3 bags (20kg each)	Designer Range Additive	10 litres
	Sand	1.2m <sup>3</sup>	Sand	1.2m <sup>3</sup>

Note: Use clean, sharp sand and allow 20% for bulking. Sand, Cement, lime and mortar additive available from National Masonry®. Can be delivered on same truck as product.

## 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/m<sup>3</sup>.
- Round aggregate (if any) not more than 10mm.
- Clean sand (1.2m<sup>3</sup>)
- 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 - 1m <sup>3</sup> Grout	
Block Type	Number of Blocks
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

## Accessories

Sand, Cement, Lime, Mortar Additive and Masonry Mesh are available from National Masonry® and can be delivered conveniently on same truck. Ring office for competitive pricing.

## Online Booking Pickup

Use our Pallet Collection Form on our website.

[www.nationalmasonry.com.au](http://www.nationalmasonry.com.au)

## Call to Arrange Pickup

Call your local branch during office hours.

**9361 6443 or 9361 6400**



## 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](http://www.nationalmasonry.com.au)

### Victoria

Riding Boundary Road,  
Deer Park

Melbourne VIC 3023

Phone: (03) 9361 6400

Fax: (03) 9363 6008

[melbourne.sales@nationalmasonry.com.au](mailto:melbourne.sales@nationalmasonry.com.au)

### South Queensland

62 Industrial Avenue,  
Wacol

Brisbane QLD 4076

Phone: (07) 3271 9292

Fax: (07) 3271 1815

[brisbane.sales@nationalmasonry.com.au](mailto:brisbane.sales@nationalmasonry.com.au)

### Gold Coast

663 Pine Ridge Road,  
Biggera Waters

Gold Coast QLD 4216

Phone: (07) 5552 3300

Fax: (07) 5552 3399

[labrador.sales@nationalmasonry.com.au](mailto:labrador.sales@nationalmasonry.com.au)

### North Queensland

6 David Muir Street,  
Slade Point

Mackay QLD 4740

Phone: (07) 4955 1155

Fax: (07) 4955 4130

[mackay@nationalmasonry.com.au](mailto:mackay@nationalmasonry.com.au)

### New South Wales

65 Burleigh Street,  
Toronto

Lake Macquarie NSW 2283

Phone: (02) 4088 1888

Fax: (02) 4088 1899

[toronto.sales@nationalmasonry.com.au](mailto:toronto.sales@nationalmasonry.com.au)

