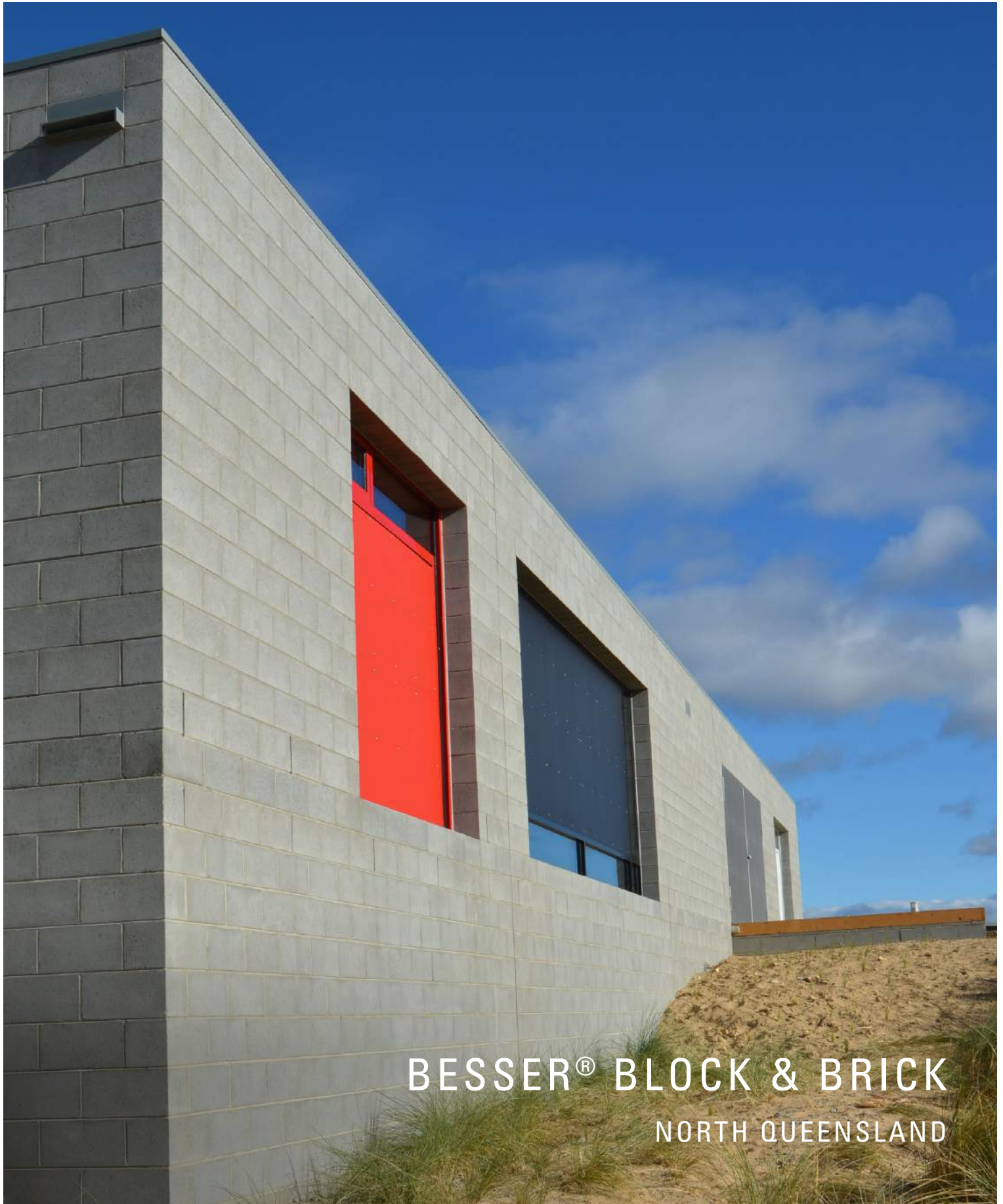
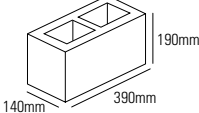
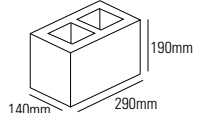
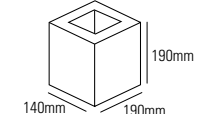
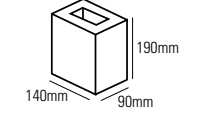
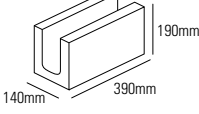
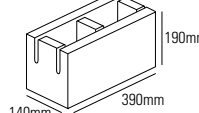
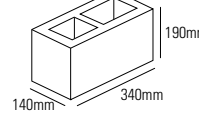
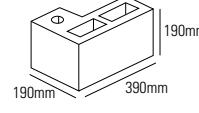
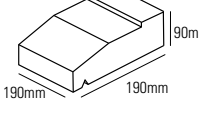
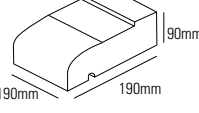


**adbri**MASONRY  
working together



**BESSER<sup>®</sup> BLOCK & BRICK**  
NORTH QUEENSLAND

| Products  | Description               | Code           | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|---|---------------------------|----------------|----------------|--------------------------|----------------------|
|    | Standard                  | 10.01          | 144            | 98                       | 10.2                 |
|    | Three Quarter             | 10.02          | 192            | 124                      | 8.1                  |
|    | Half                      | 10.03<br>20.04 | 288            | 173                      | 5.8                  |
|   | L-Shape<br>Corner Return  | 10.25          | 96             | 73                       | 13.7                 |
|  | Full Solid                | 10.31          | 108            | 70                       | 14.4                 |
|  | Half Height<br>Half Solid | 10.34          | 576            | 323                      | 3.1                  |
|  | Half Height Solid         | 10.83          | 156            | 148                      | 6.8                  |
|  | Standard Half Height      | 10.71          | 312            | 239                      | 4.2                  |
|  | Half Half Height          | 10.73          | 720            | 362                      | 2.76                 |

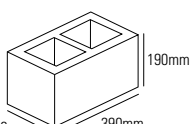
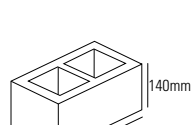
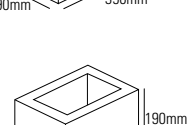
| Products  | Description                               | Code   | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|---|---|--------|----------------|--------------------------|----------------------|
|    | Standard                                  | 15.01  | 120            | 73                       | 13.8                 |
|    | Three Quarter                             | 15.02  | 128            | 100                      | 10.1                 |
|    | Half                                      | 15.03  | 192            | 118                      | 6.5                  |
|   | Quarter                                   | 15.04  | 312            | 400                      | 2.5                  |
|  | Lintel                                    | 15.12  | 96             | 75                       | 13.2                 |
|  | Knock-out Bond Beam                       | 15.20  | 120            | 77                       | 13                   |
|  | Seven Eights Closure                      | 15.22  | 108            | 82                       | 12.3                 |
|  | L-Shape Corner Return                     | 15.25  | 84             | 71                       | 14.2                 |
|  | Sill<br>(6" Overhang / 8" Flush)          | 15.38  | 72/216         | 170                      | 5.9                  |
|  | Bullnose Sill<br>(6" Overhang / 8" Flush) | 15.38B | 216            | 170                      | 5.9                  |

| Products | Description | Code | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|----------|-------------|------|----------------|--------------------------|----------------------|
|----------|-------------|------|----------------|--------------------------|----------------------|

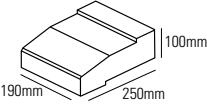
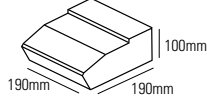
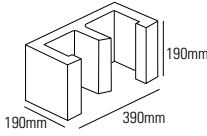
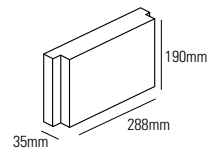
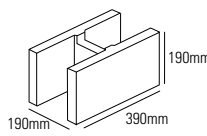
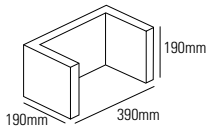
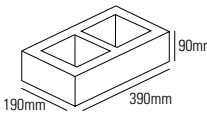
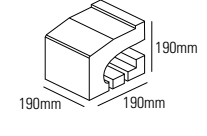
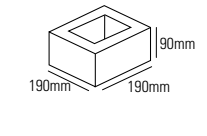
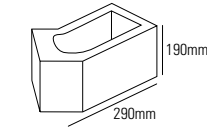
**Block - 150mm Series (Continued)**

|   |                      |        |     |     |      |
|---|----------------------|--------|-----|-----|------|
|  | Sill<br>(Flush 6")   | 15.40  | 288 | 233 | 4.3  |
|    | Cleanout Block       | 15.45  | 120 | 88  | 11.4 |
|    | Clean Out Tile       | 20.45A | 288 | 239 | 4.2  |
|    | 'H' Block            | 15.48  | 120 | 76  | 13.2 |
|   | Standard Half Height | 15.71  | 240 | 167 | 6    |
|    | Half Height Half     | 15.73  | 480 | 323 | 3.1  |
|    | 45 Deg Squint        | 15.739 | 120 | 90  | 11.2 |
|    | Full Thick Wall      | 15.801 | 96  | 58  | 17.4 |

**Block - 200mm Series**

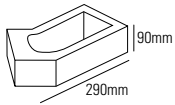
|   |                               |                |     |    |      |
|---|-------------------------------|----------------|-----|----|------|
|  | Standard                      | 20.01          | 90  | 68 | 14.7 |
|  | Three Quarter Height Standard | 20.011         | 90  | 90 | 11.2 |
|  | Three Quarter                 | 20.02<br>30.03 | 120 | 89 | 11.3 |

| Products  | Description                      | Code           | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|---|----------------------------------|----------------|----------------|--------------------------|----------------------|
|    | Half                             | 20.03          | 144            | 115                      | 8.7                  |
|    | Quarter                          | 20.04<br>10.03 | 288            | 173                      | 5.8                  |
|    | 200mm Lintel                     | 20.12          | 72             | 50                       | 20.3                 |
|   | Half Lintel                      | 20.13          | 144            | 113                      | 8.9                  |
|  | Deep Lintel                      | 20.18          | 90             | 69                       | 14.6                 |
|  | Knockout No Biscuit              | 20.20V         | 90             | 72                       | 13.6                 |
|  | Corner Bond Beam                 | 20.21          | 90             | 55                       | 18.2                 |
|  | Seven Eights Closure             | 20.22          | 90             | 73                       | 13.8                 |
|  | Three Quarter Lintel             | 20.25          | 120            | 84                       | 12                   |
|  | Half Bond Beam /<br>Half H Block | 20.28          | 90             | 55                       | 18.3                 |

| Products  | Description                        | Code   | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|---|------------------------------------|--------|----------------|--------------------------|----------------------|
|    | Half Height Sill<br>(Overhang 8'') | 20.38  | 168            | 121                      | 8.3                  |
|    | Sill Bullnose                      | 20.40  | 195            | 140                      | 7.2                  |
|    | Clean Out Block                    | 20.45  | 90             | 77                       | 13.1                 |
|   | Clean Out Tile                     | 20.45A | 288            | 239                      | 4.2                  |
|  | 'H' Block                          | 20.48  | 90             | 69                       | 14.6                 |
|  | Pier 'C' Block                     | 20.61  | 90             | 82                       | 12.3                 |
|  | Half Height                        | 20.71  | 180            | 130                      | 7.7                  |
|  | Sliding Door Sill Block            | 20.723 | 144            | 132                      | 7.6                  |
|  | Half Height Half                   | 20.73  | 360            | 250                      | 4                    |
|  | 45 Deg Squint                      | 20.739 | 90             | 87                       | 11.5                 |

| Products | Description | Code | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|----------|-------------|------|----------------|--------------------------|----------------------|
|----------|-------------|------|----------------|--------------------------|----------------------|

**Block - 200mm Series (Continued)**



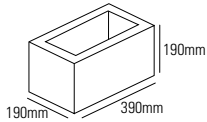
Half Height Squint

20.744

180

197

5.1



Single Core

20.925

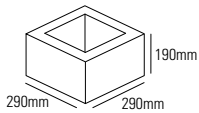
90

73

13.7

| Products | Description | Code | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|----------|-------------|------|----------------|--------------------------|----------------------|
|----------|-------------|------|----------------|--------------------------|----------------------|

**Block - 300mm Series**



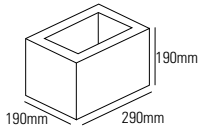
Three Quarter

30.02

80

65

15.6



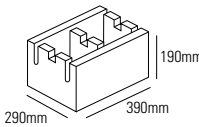
Half

30.03  
20.02

120

89

11.3



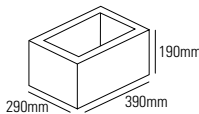
Combined Knockout Channel

30.242

60

46

22.1



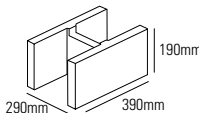
Single Core /  
Corner

30.925

60

53

19



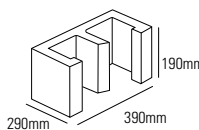
'H' Block

30.48

60

55

18.3



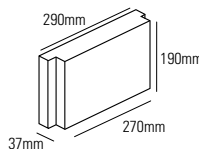
Cleanout Block

30.45

60

56

18.1



Clean Out Tile

20.45A

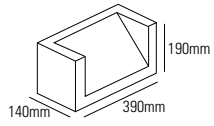
288

239

4.2

| Products | Description | Code | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|----------|-------------|------|----------------|--------------------------|----------------------|
|----------|-------------|------|----------------|--------------------------|----------------------|

**Special Series**



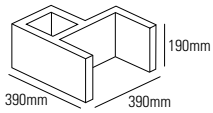
150mm Louve Block

15.745

96

67

15.1



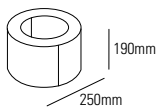
200mm Bonded Pier

20.60

60

48

21



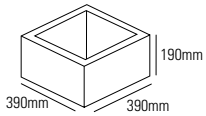
Column (Round)

25.58

100

97

10.3



Single Core

40.925

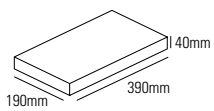
45

45

22.7

| Products | Description | Code | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|----------|-------------|------|----------------|--------------------------|----------------------|
|----------|-------------|------|----------------|--------------------------|----------------------|

**Capping Series**



Capping Tile

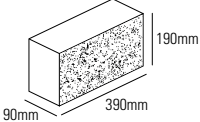
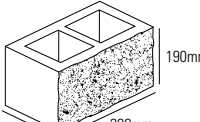
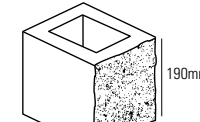
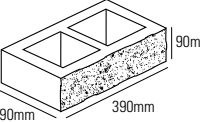
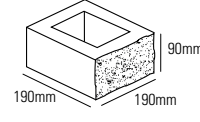
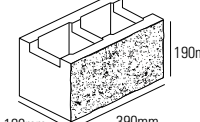
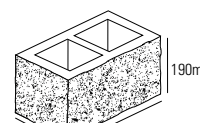
50.31c

216

162

6.2



| Products  | Description      | Code   | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|---|------------------|--------|----------------|--------------------------|----------------------|
| <b>Split Face</b>   |                  |        |                |                          |                      |
|    | Full Solid       | 10.011 | 108            | 70                       | 14.4                 |
|    | Full             | 20.121 | 90             | 59                       | 17                   |
|    | Half             | 20.123 | 144            | 102                      | 9.8                  |
|   | Half Height      | 20.127 | 120            | 129                      | 7.8                  |
|  | Half Height Half | 20.129 | 300            | 237                      | 4.2                  |
|  | Channel          | 20.135 | 90             | 58                       | 17.3                 |
|  | Corner Return    | 20.139 | 90             | 53                       | 18.9                 |

| Products  | Description | Code             | No. per pallet | Average Number per Tonne | Weight per unit (kg) |
|---|-------------|------------------|----------------|--------------------------|----------------------|
| <b>Breeze Blocks</b>  |             |                  |                |                          |                      |
|  <p>140mm / 90mm<br/>190mm<br/>390mm</p> | Accent      | B15932<br>B10932 | 90 / 120       | 75 / 105                 | 13/9.5               |
|  <p>140mm / 90mm<br/>190mm<br/>390mm</p> | Diamond     | B15936<br>B10936 | 90 / 120       | 75 / 105                 | 13/9.5               |
|  <p>140mm / 90mm<br/>190mm<br/>390mm</p> | Arches      | B15938<br>B10938 | 90 / 120       | 75 / 105                 | 13/9.5               |
|  <p>140mm / 90mm<br/>190mm<br/>390mm</p> | Labrynth    |                  | 90 / 120       | 75 / 105                 | 13/9.5               |

## Natural Colour Variation:

Please be aware that Besser® Blocks are made from natural materials and as such colour variation does occur. These variations can be caused by such things as raw material colour, moisture, plant location, length of time a product has been store, etc.

With this in mind Adbri Masonry do not guarantee that all products will be the same colour or shade. If you require “face” block-work please talk to your sales representative before placing your order so we can endeavour to colour match, or make the product specifically for your project needs.

# MORTAR AND GROUT INFORMATION

## The Three Principal Functions of Mortar are:

1. To provide an even bedding for the blocks and allow level courses by taking up small variations in unit height.
2. To transmit compressive loads
3. To hold the blocks together in the wall by bonding to them, so that tensile and shear forces can be carried (this is often referred to as bond strength). This is particularly important so that units on the top of a wall are not easily dislodged.

In order to provide a good bond between the units and the mortar, the following guidelines should be followed:

- An appropriate mortar mix design should be selected - see table below
- The mortar should be batched accurately using some consistent form of volume measurement, e.g. 1/2 bag of cement, 1/2 bag of lime, and 18 shovels of sand for a 1:1:6 mix.
- The sand used in mortar should be clean pit sand, masonry sand or plasterer's sand. Clayey loam or sand containing organic impurities will affect the mortar strength and should not be used.
- Mortar should be discarded and not retempered, after the initial set of the cement has taken place.
- Admixtures. Caution should be exercised when using lime replacing additives such as plasticisers or workability agents. They should only be used if specified by the architect or engineer and then strictly in accordance with the manufacturers instructions.
- Detergent should never be used

## Table of Mortar Mixes

| Mix Proportions by Volume |      |       | Methyl Cellulose Added (see note 1) | Where Used   |
|---------------------------|------|-------|-------------------------------------|--|
| GP Portland Cement        | Lime | Sand  |                                     |  |
| 1                         | 1/4  | 3     | Optional                            | High durability - use when in contact with earth, in retaining walls, below DPC's in fences adjacent to the sea, in capping courses to fences and parapets |
| 1                         | 1/2  | 4 1/2 | Optional                            | Structural blockwork and severe exposure - fences - external walls adjacent to sea front   |
| 1                         | -    | 4     | Yes                                 |  |
| 1                         | 1    | 6     | Optional                            | General purpose with moderate exposure   |
| 1                         | -    | 5     | Yes                                 |  |
| 1                         | 2    | 9     | No                                  | Fireplaces, barbecues and incinerators   |

**Note:** Methyl Cellulose water thickener is used to prevent the rapid drying out of the mortar thus improving its workability as well as increasing bond strength. It does not have the detrimental effect of some plasticisers. It is available under the trade name DYNEX or similar.

## Volume of Grout Used in Filling Cores

| Block Type      | Volume of Concrete to Fill 1m <sup>2</sup> Wall Area (m <sup>3</sup> ) | Volume of Concrete to Fill 100 Block (m <sup>3</sup> ) | (Approx.) No. of Blocks Filled by 1 Cubic Metre (m <sup>3</sup> ) |
|-----------------|--|--|---|
| 15.01 / 15.42   | 0.054  | 0.43   | 220   |
| 20.01 / 20.42   | 0.100  | 0.66   | 150   |
| 20.48 'H' Block | 0.100  | 0.80   | 120   |
| 30.48           | 0.180  | 1.44   | 69  |



BRICKS | BESSER® BLOCKS | PAVERS | RETAINING WALLS

**For all technical enquiries please email [masonrytech@adbri.com.au](mailto:masonrytech@adbri.com.au) and speak directly with our in-house Technical and Engineering Teams.**

**Free pallet collection service freecall 1800 674 961 or drop pallets back to place of purchase or lodge your pallet pick up online at [adbri.com.au](http://adbri.com.au)**  
Pallets remain Adbri Masonry property. Please telephone us for collection of pallets and keep pallets empty and stacked in a safe and accessible area for collection.

We will not accept any returns or claims more than 7 days after delivery or after products have been installed. We will not accept returns unless transport arrangements have been agreed and the products are in 'as received' condition and accessible for collection. We will only accept returns as follows:

- Paving and Retaining Walls - returns accepted only in full pallets stacked in original configuration.
- No returns accepted for any made to order product.

The information in this brochure is to be used only with the specific Adbri Masonry products shown. All images, designs, drawings and other depictions of the installation and/or use of products in this document are examples only, and should not be relied on. To the maximum extent permitted by law, in no circumstances will Adbri Masonry be liable to any party for any direct, indirect, consequential, incidental, special or economic loss, damage or injury (which may include loss of profits, loss or damage to goodwill, direct or indirect loss or damage to equipment or property, loss or damage arising from accident, loss of profits or other commercial losses) suffered or incurred by that party.

Adbri Masonry makes no express warranties or representations regarding the products, designs or information set out in this document, and to the maximum extent permitted by law, excludes all representations, warranties, terms, conditions and guarantees regarding the products and designs and information set out in this document, and any other goods or services supplied or provided by Adbri Masonry to the customer that are implied by law (including the general law) or custom. While Adbri Masonry does not exclude, restrict or modify any guarantees, warranties and conditions implied by applicable laws that cannot lawfully be excluded, restricted or modified, including but not limited to those set out in the Australian Consumer Law, to the maximum extent permitted by law Adbri Masonry's liability to any party for a breach of any such applicable non-excludable terms is limited to, at the option of Adbri Masonry: (a) in the case of goods - replacement of the goods, the supply of equivalent goods, repair of the goods, payment of the cost of replacing the goods or acquiring equivalent goods, or payment of the costs of having the goods repaired; and (b) in the case of services - the supply of the services again or payment of the cost of having the services supplied again.

## Contact Us



[adbri.com.au](http://adbri.com.au)



1300 365 565



[enquiries@adbri.com.au](mailto:enquiries@adbri.com.au)

## Follow us on Social Media



[AdbriMasonryAus](https://www.facebook.com/AdbriMasonryAus)



[@adbri\\_masonry](https://www.instagram.com/adbri_masonry)



[adbri\\_masonry](https://www.pinterest.com/adbri_masonry)



[AdbriMasonryAus](https://www.youtube.com/AdbriMasonryAus)

## Besser Brick & Block Guide

NQLD - January 2019

ABM3025

Adbri Masonry Pty Ltd

ABN: 31 009 687 521

Besser®, Versaloc® and the Adbri Masonry logo are registered trademarks of Adbri Masonry Pty Ltd.

**adbri** MASONRY  
working together