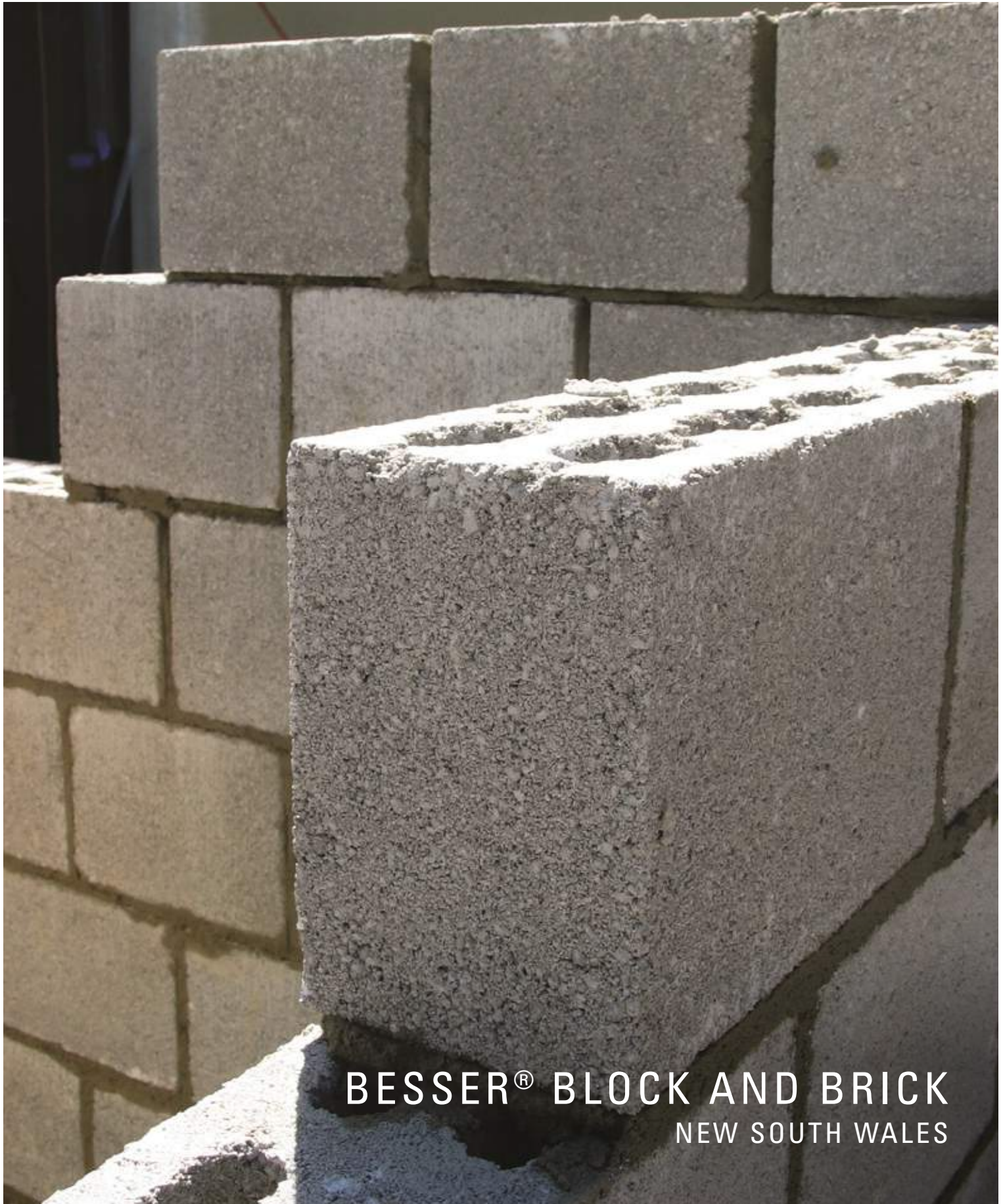
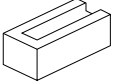
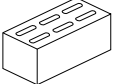
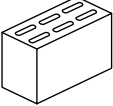
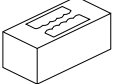
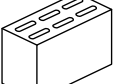
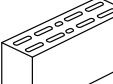


**adbri**MASONRY

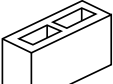
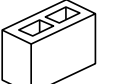




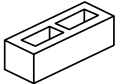
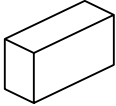
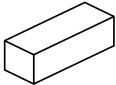
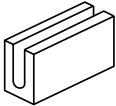
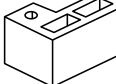
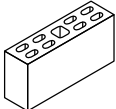
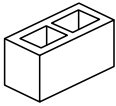
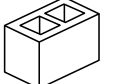

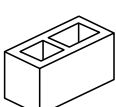
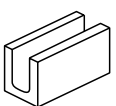

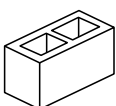
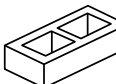
**BESSER® BLOCK AND BRICK**  
NEW SOUTH WALES

Products	Type	Description	Size (mm) w x h x d	Qty. per pallet	Unit Weight (kg)	Unit per m <sup>2</sup>	MPa	Fire Rating	Notes
<b>Common Brick</b> - Strength and Fire Resistance Periods (FRP) varies dependant on product. All products have a durability grade of Exposure as per AS4455.1. Further details of fire, thermal and acoustic properties are available in the Masonry Specification Guide.									
	L11.076	Render Brick (Solid)	230 x 76 x 110	450	3.2	48.4	10	FRP - 120/120/120	
	D11.119	Schooner (Cored) (Brick and a half)	230 x 119 x 110	400	4.8	32.3	10	FRP - 90/90/90	
	D11.162	Quick Brick (Cored)	230 x 162 x 110	300	6.3	24.3	10	FRP - 90/90/90	MTO
	D14.119	Ezibrick® (Cored)	230 x 119 x 140	240	6.9	32.3	10	FRP - 120/120/120	
	L11.162	Quick Brick Acoustic	230 x 162 x 110	350	4.1	24.3	4	FRP - 180/180/180	
	LM 90.162	Quick Brick	290 x 162 x 90	364	4.6	19.4	4	FPR - 120/120/120	

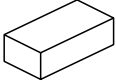
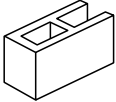
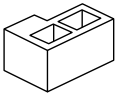
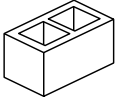
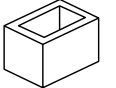
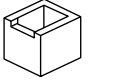
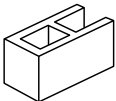
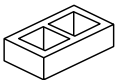
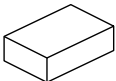
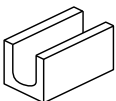
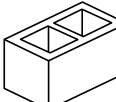
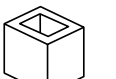
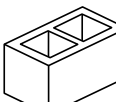
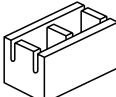
### Blockwork

All Adbri Masonry Litec® masonry products are lightweight product produced using concrete mixes that incorporate up to 85% industrial by-products. This leads to a reduced carbon footprint from the manufacturing process and from transport of the product. Being 25 to 30% lighter than traditional masonry products, Litec® masonry products increase productivity, reduces design dead loads and reduces handling issues. Pallets contain more square metres reducing material handling movements and storage requirements. All Litec® masonry products have improved fire resistance and a durability grade of Exposure as per AS4455.1.

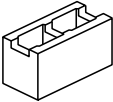
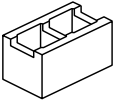
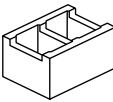
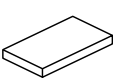
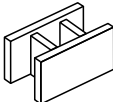
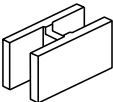
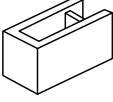
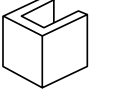
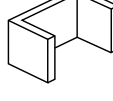
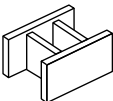
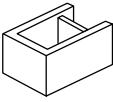
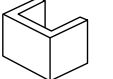
Products	Type	Description	Size (mm) w x h x d	Qty. per pallet	Unit Weight (kg)	Unit per m <sup>2</sup>	MPa	Notes
<b>Litec® 100 Standard Series</b> - ( $f'_{uc}$ = 10MPa) -/120/120 FRL								
	L1001.2	Full Length Hollow	390 x 190 x 90	216	7.1	12.5	10	
	L1002.2	3/4 Length Hollow	290 x 190 x 90	288	6.4	-	10	
	L1003.2	1/2 Length Hollow	190 x 190 x 90	432	3.8	-	10	
	L1034.2	1/4 Length Solid	90 x 190 x 90	576	2.7	-	10	

Products	Type	Description	Size (mm) w x h x d	Qty. per pallet	Unit Weight (kg)	Unit per m <sup>2</sup>	MPa	Notes
<b>Litec® 100 Standard Series - (<math>f'_{uc}</math> = 10MPa) -/120/120 FRL</b>								
	L1071.2	Full Length 1/2 Height Hollow	390 x 90 x 90	360	4.1	25	10	
	L1031.2	Full Length Solid	390 x 190 x 90	180	10.4	12.5	10	
	L1083.2	Full Length 1/2 Height Solid	390 x 90 x 90	216	6.0	25	10	
	L1012	Full Length Lintel Bondbeam	390 x 190 x 90	216	9.1	-	10	
	L1025.2	Full Length Corner Return	390 x 190 x 90 x 190	120	10.3	-	10	
<b>Litec® 120 Standard Series - (<math>f'_{uc}</math> = 6MPa) -/180/180 FRL</b>								
	L12801	Full Length Cored Block	390 x 190 x 110	150	8.2	12.5	6	
<b>Litec® 150 Standard Series - (<math>f'_{uc}</math> = 10MPa) -/120/120 FRL *</b>								
	L1501.2	Full Length Hollow	390 x 190 x 140	144	9.4	12.5	12	
	L1502.2	3/4 Length Hollow	290 x 190 x 140	192	7.8	-	12	
	L1546.2	1/2 Length Hollow	190 x 190 x 140	288	5	-	12	
	L1522.4	340mm Corner Block Hollow	340 x 190 x 140	162	10.9	-	12	
	L1512.2	Lintel Bond Beam	390 x 190 x 140	120	12.1	-	12	
	L1503.4	4 Hour 1/2 Length Hollow	190 x 190 x 140	240	61	-	12	
	L1501.4	4 Hour Full Length Hollow	390 x 190 x 140	144	11.7	12.5	12	
	L1571.2	Full Length 1/2 Height Hollow	390 x 90 x 140	240	4.9	25	12	

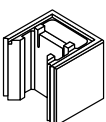
\*Unless noted higher in description

Products	Type	Description	Size (mm) w x h x d	Qty. per pallet	Unit Weight (kg)	Unit per m <sup>2</sup>	MPa	Notes
<b>Litec® 150 Standard Series</b> - ( $f'_{uc}$ = 10MPa) -/120/120 FRL								
	L1583.4	Full Length 1/2 Height Solid	390 x 90 x 140	192	7.4	25	12	
	L1549.2	Full Length Open End	390 x 190 x 140	144	8.5	12.5	12	
	L1525.2	Full Length Corner Return Hollow	390 x 190 x 140 x 190	105	9.4	-	12	
<b>Litec® 200 Standard Series</b> - ( $f'_{uc}$ = 10MPa) -/120/120 FRL *								
	L2001.2	Full Length Hollow	390 x 190 x 190	108	10.9	12.5	12	
	L2002.2	3/4 Length Hollow	290 x 190 x 190	144	7.8	-	12	
	L2046.2	1/2 Length Hollow	190 x 190 x 190	216	5.9	-	12	
	L20.49.2	Open End Block Full Length	390 x 190 x 190	90	10	-	12	
	L2071.2	Full Length 1/2 Height Hollow	390 x 90 x 190	216	5.2	-	12	
	L2083.4	Full Length 1/2 Height Solid	390 x 90 x 190	144	10.4	25	12	
	L2012	Full Length Lintel Bond Beam	390 x 190 x 190	108	14.5	-	12	
	L2001.3	Full Length 3 Hour Hollow	390 x 190 x 190	108	12.0	12.5	12	
	L2003.3	1/2 Length 3 Hour Hollow	190 x 190 x 190	216	6.2	-	12	
	L2001.4	Full Length 4 Hour Hollow	390 x 190 x 190	108	15.4	12.5	10	
	L2020.2	Knock Out Bond Beam Full Length	390 x 190 x 190	108	10.9	-	10	Cut to Order

\*Unless noted higher in description

Products	Type	Description	Size (mm) w x h x d	Qty. per pallet	Unit Weight (kg)	Unit per m <sup>2</sup>	MPa	Notes
<b>Litec® Top Groove Series - (<math>f'_{uc}</math> = 15MPa) -/120/120 FRL</b>								
	L15412	140mm Top Groove Full Length	390 x 190 x 140	144	9.4	12.5	15	
	L20412	190mm Top Groove Full Length	390 x 190 x 190	108	10.9	12.5	15	
	L3042	290mm Top Groove Full Length	390 x 190 x 290	72	15.0	12.5	15	
	L5031	190mm Capping Unit	390 x 190 x 40	216	7.0	-	-	
<b>200 Series Litec® H Block Retaining Wall - Newcastle Only (<math>f'_{uc}</math> = 15MPa) -/60/60 FRL</b>								
	L2091	Full Length Block	390 x 190 x 190	108	9.8	12.5	15	
<b>200 Series Litec® H Block Retaining Wall - (<math>f'_{uc}</math> = 15MPa) -/60/60 FRL</b>								
	L2048	Single Web H Block	390 x 190 x 190	108	9.8	12.5	15	
	L2092	Closed End Full Length	390 x 190 x 190	108	9.6	-	15	
	L2093	Half Block	190 x 190 x 190	216	6.4	-	15	
	L2061	Clean Out Full Length Block	390 x 190 x 190	108	9.6	-	15	
<b>300 Series Litec® Standard Series Double Web Retaining Wall - (<math>f'_{uc}</math> = 15MPa) -/60/60 FRL</b>								
	L3091	Full Length Block	390 x 190 x 290	72	13.0	12.5	15	
	L3092	Closed End Full Length Block	390 x 190 x 290	72	13.6	-	15	
	L3093	Half Block	190 x 190 x 290	144	7.1	-	15	



Products	Type	Size (mm) l x h x w	Average No. per m <sup>2</sup>	Average No. per pallet	Average No. per tonne	Colours	Notes
<b>Versaloc® Mortarless Masonry System</b>							
	Versaloc® Standard Block	400 x 200 x 190	12.5	72	65.5	Natural	
	Versaloc® End Block*	400 x 200 x 190	N/A	96 (48 of each Block)	58.5	Natural	
	Versaloc® Half End Block*	200 x 200 x 190	N/A		111	Natural	
	Versaloc® Righthand Corner Block**	400 x 200 x 190	N/A	72 (36 of each Corner)	65	Natural	
	Versaloc® Lefthand Corner Block**	400 x 200 x 190	N/A		65	Natural	

\*Sold as pairs only

\*\*Sold as pairs only

## Technical Information

**Standards** - All Adbri Masonry concrete blockwork is manufactured to AS/NZS4455.1 - Masonry Units and tested to AS/NZS4456 - Masonry Units and Segmental Pavers/Methods of Test. For more information on design and construction refer to CMAA document MA55.

**Fire Resistance** - AS3700 - Masonry Structures sets out the method for determining fire resistance of walls based on test data. It is recommended that designers calculate or check the structural adequacy, integrity and insulation for each wall configuration to ensure conformance to the National Construction Code (NCC). Adbri Masonry have an extensive range of bricks and blocks meeting the requirements of the NCC. Refer to the Adbri NSW Masonry Fire and Sound brochure for more information.

**Acoustics** - The statutory requirements for sound attenuation are set out in Section F5 of the NCC. The new NCC deemed-to-satisfy provisions increase the levels of airborne sound insulation and apply to wall/floor systems tested in the laboratory. These figures are  $R_w + C_{tr}$  not less than 50. Adbri Masonry have a number of high performance wall systems which have been developed to accommodate the new stringent requirements imposed by the NCC, to satisfy all acoustic needs. Refer to the Adbri Masonry Fire and Sound Brochure for more information.

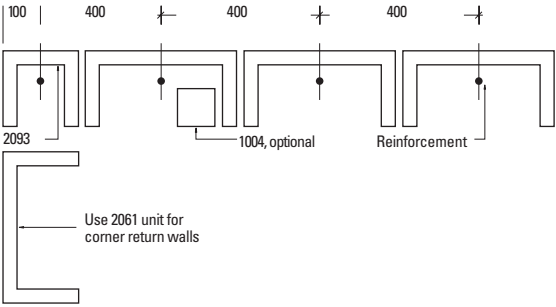
**Control Joints** - Control Joints must be incorporated in masonry as necessary to control and limit the movements referred to in AS3700 clause 2.5.2.2.

Control joints should extend the full height of the wall and be spaced 8m centre for concrete units and at 6m centre for light weight units where walls are not interrupted by full height doorways or window openings.

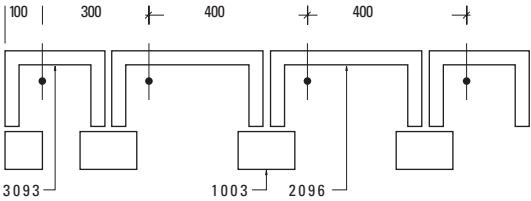
**General Guidelines** - All concrete blockwork should be laid dry, so covering on site is recommended. Whenever work is stopped, the tops of walls should be covered to prevent moisture entering the cores of the blocks and/or cavity. All mortar joints should be allowed to set to "thumb print" hardness before tooling. Brush away excess mortar with semi stiff brush at the end of each days work.

**Cleaning** - Care should be taken to keep bricks and blocks as clean as possible during laying. There are various methods of general cleaning from dry brushing, water washing and also using chemicals. For a complete listing refer to the CMAA Code MA41. When using a weak acid mixture it is recommended for cleaning down at no stronger than 1 part acid to 20 parts water. Walls should be wet thoroughly before application and washed thoroughly with water after application. High water pressure is not recommended. Note - Always trial solution in a small area which is not highly visible.

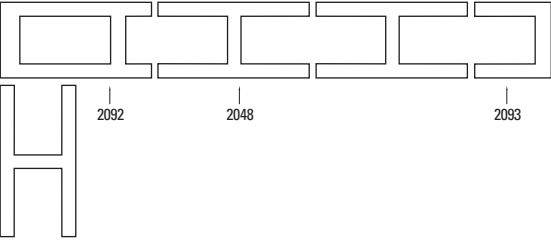
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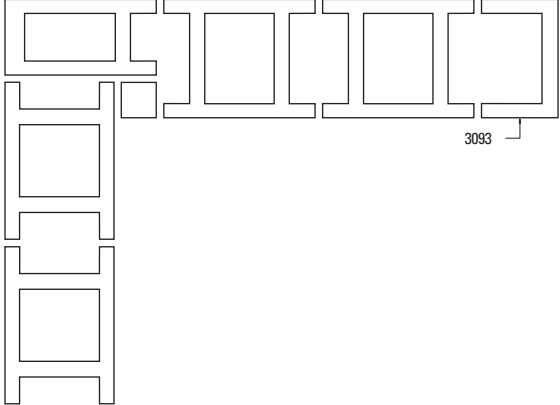
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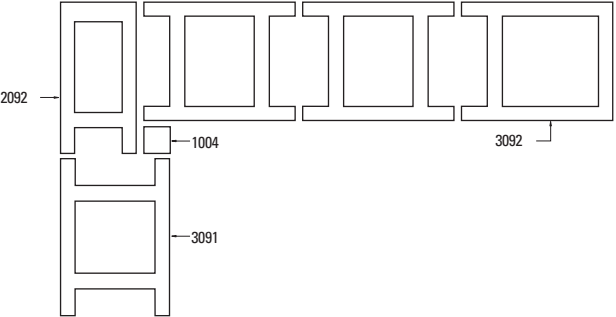
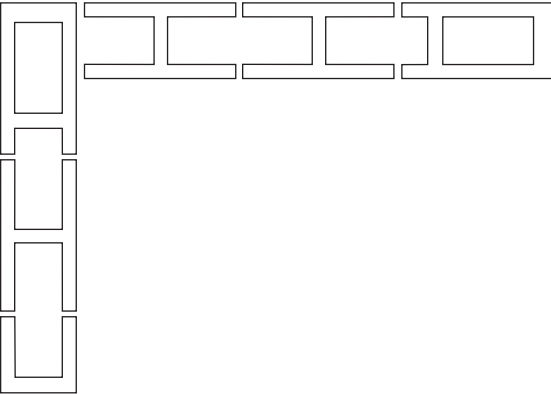
ALTERNATE COURSE



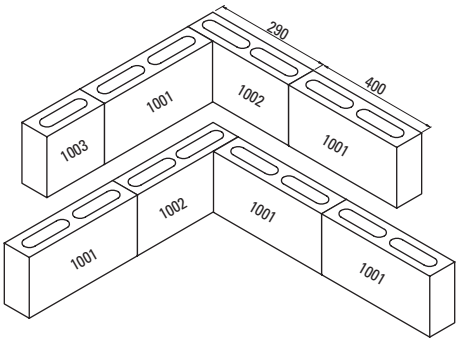
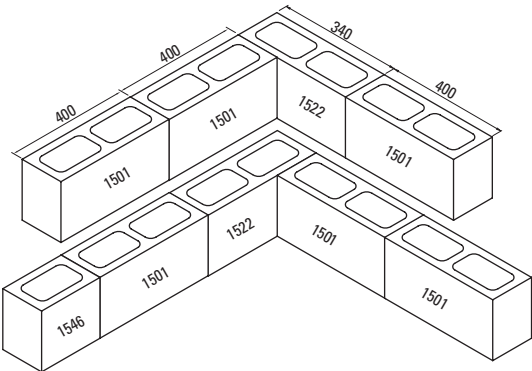
ALTERNATE COURSE



ALTERNATE COURSE



Block Type	Cubic Metres per sq. Metre of Wall	Block Filled per Cubic Metre of Grout
15412	0.078	160
20412	0.114	110
2048	0.114	110
3091	0.195	64



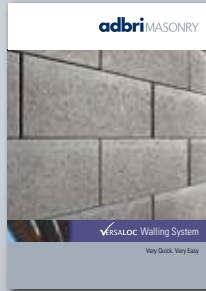
## Other Adbri Masonry Solutions



*NSW Landscape Solutions  
Paving*



*NSW Landscape  
Solutions Retaining Wall*



*Versaloc® Brochure*

*Pick up your copy in store or download from [adbrimasonry.com.au](http://adbrimasonry.com.au)*

## Contact Us



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



**1300 365 565**



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



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

## 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.

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:

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

**Free pallet collection service freecall 1800 674 961 or drop pallets back to place of purchase or lodge your pallet pick up online at [adbrimasonry.com.au](http://adbrimasonry.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.

**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.**

## Brick and Block Guide

NSW - August 2015

ABM1040

Adbri Masonry Pty Ltd

ABN: 31 009 687 521

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**adbri**MASONRY