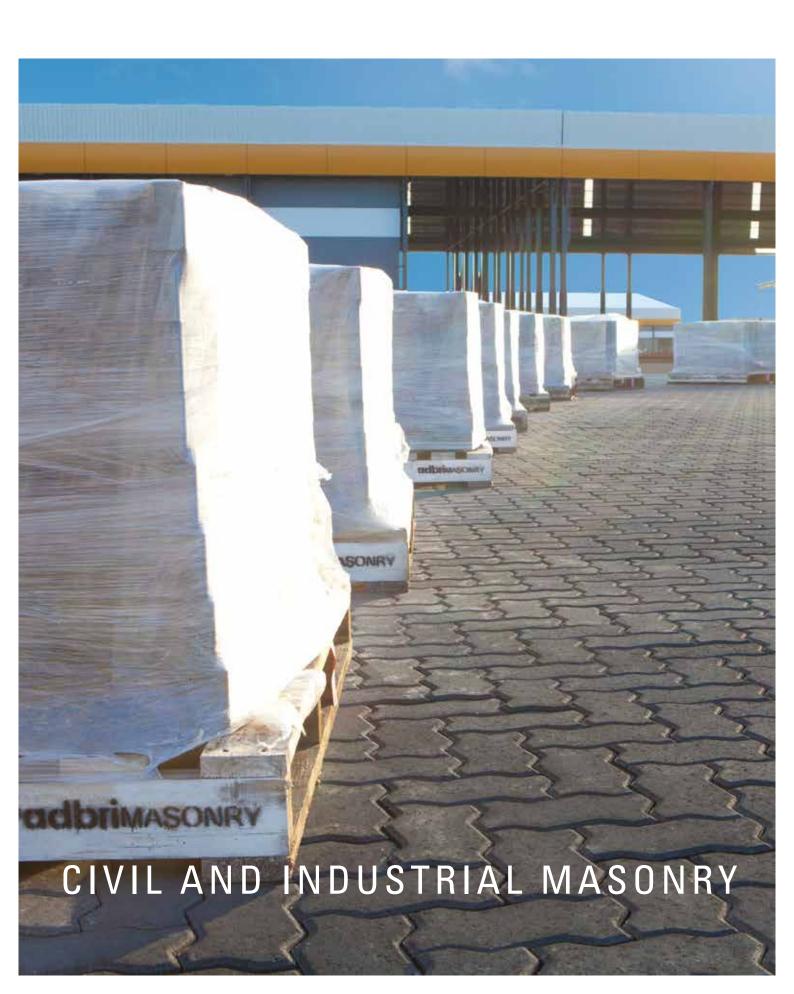
### adbrimasonry



### Adbri Masonry

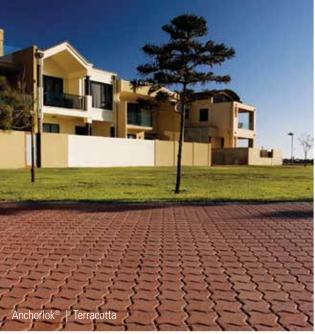
Adbri Masonry is Australia's leading masonry manufacturer supplying quality concrete bricks, blocks, pavers, retaining walls, erosion control products and architectural masonry solutions throughout New South Wales, Queensland, Victoria, South Australia and Tasmania. Adbri Masonry is a wholly owned subsidiary of Adelaide Brighton Limited, a leading integrated construction materials and lime producing group of companies and a member of the S&P/ASX 200 Index.

Adbri Masonry first produced concrete Besser® blocks in 1957 and since then has traded as many household brand names including Besser®, Rocla Pavers and Masonry, Pioneer Building Products, Hanson Building Products Pty Ltd and C&M Brick before rebranding as Adbri Masonry in 2009.

In addition to supplying a full collection of quality concrete building and landscaping products, there are a range of valuable benefits to working with Adbri Masonry including:

- Access to our Contracting Services Team (in-house design, supply, installation and certification team for commercial projects)
- Confidence that all product lines are tested for quality in our N.A.T.A accredited laboratory
- Our commitment to environmental sustainability and environmental building products
- Support from experienced in-house engineers who can provide technical advice and design solutions for civil, commercial and industrial projects
- The benefit of dealing with knowledgeable local sales teams
- Market The ability to create customised product and colour solutions specific to individual projects (conditions apply)





### Contracting Services

Adbri Masonry's Contracting Services Division has been providing building solutions for over 20 years and offer a range of construction and project management services, including a complete design, supply, install and certification package for segmental retaining walls, permeable and standard pavements, erosion control and wall cladding products.

Operating on the East Coast, the Adbri Masonry team can provide the following civil contracting services;



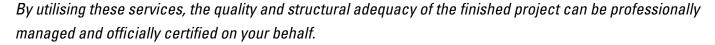


Preliminary costings

Certified design

Ongoing project management

Access to machine lay technology



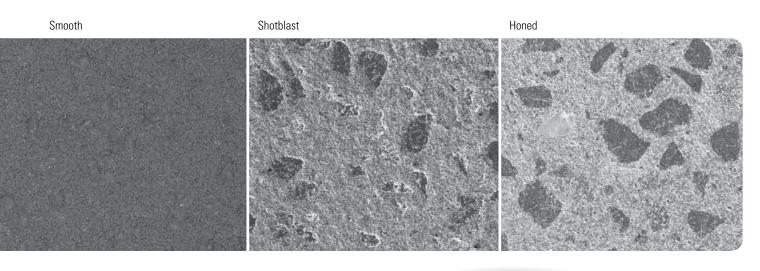
QLD Building Licence Number - 61929

Available only for commercial or industrial projects



### Colour and Texture

### **PAVING TEXTURES**



### **COLOURS**

With access to a vast range of oxides, Adbri Masonry has the ability to produce paving and retaining wall products in a variety of contemporary colours to suit your project. For more information about our colour range or to create a colour to match a specific project please contact Adbri Masonry on 1300 365 565 or email enquiries@adbri.com.au.

To the right is a selection of standard colours

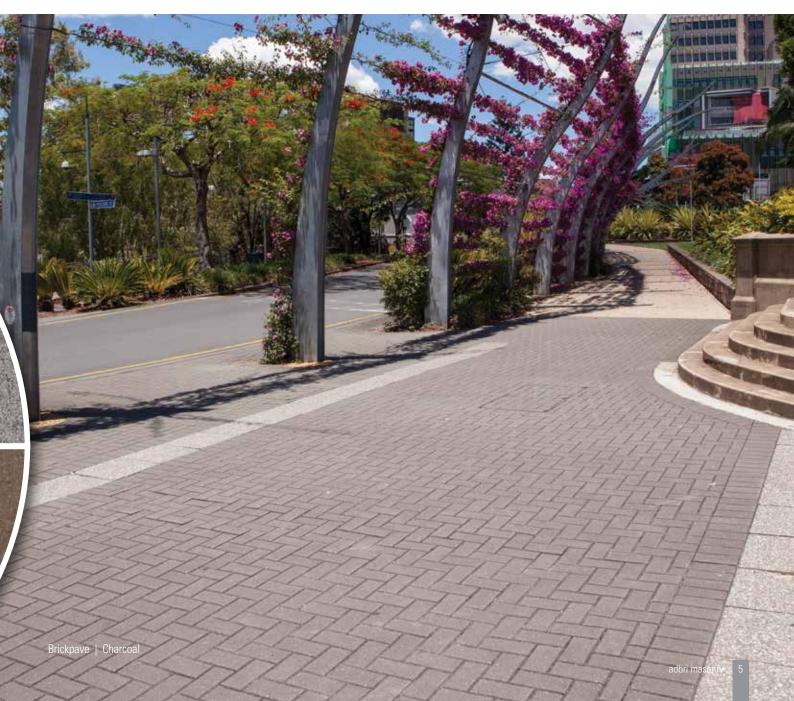




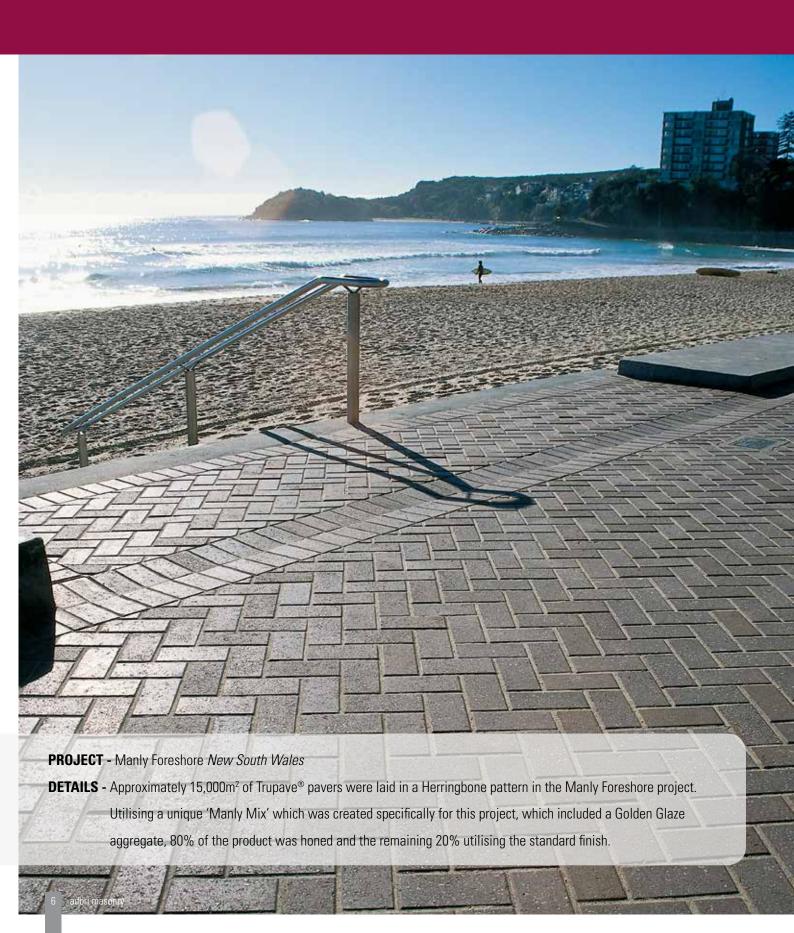
### **CREATING A SPECIFIC COLOUR SOLUTION FOR YOUR PROJECT**

While there are a range of standard colours to choose from, creativity has been catered for with the introduction of our personalised Made to Order service.

As a part of the \$2.9 billion plan to renovate the RNA Showgrounds, over 5000m² of Adbri Masonry's Brickpave and BiPave pavers were used in a mixture of colours including the 'Red Ekka Blend,' which was developed to complement existing brickwork on surrounding heritage-listed buildings.



### **Brick Pavers**





Paving in its purest form, these ranges have a simple design giving them immense versatility in both civil and industrial applications. These rectangular pavers can be machine laid and possess strong resistance to breakage creating a solution often relied upon for the most demanding projects.

### **FEATURE PROJECTS**

- Sydney City Council Cycle way, 660m² of Bipave in a Steel, River Gravel with a honed finish.
- Brighton-le-Sands Foreshore, NSW, 1100m<sup>2</sup> of Trupave<sup>®</sup> 60 Oatmeal, Sunstone, Terracotta and Charcoal in a standard finish
- Port of Brisbane, Fisherman Island hardstand development project, 120,000m<sup>2</sup> of 200 x 100 x 100mm Brickpave. The pavement surface has been designed to support the loading associated with shipping containers and the fully automated radar guided straddle carriers.

### **APPLICATIONS**



Streetscapes



Government/Council projects



Footpaths



Road infrastructure

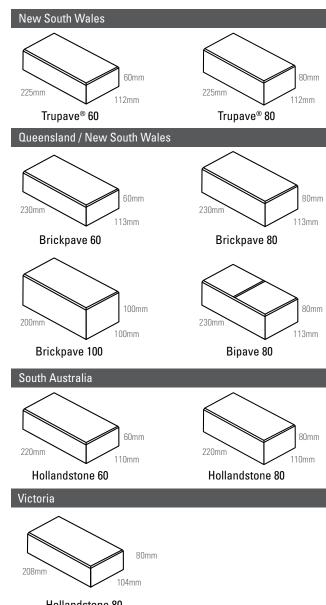


Heavy industrial traffic



Machine lay

### **AVAILABLE SIZES**



Hollandstone 80

Note: Pavers can be produced in a smooth, honed or shotblast finish.

PRODUCT	Trupave® 60	Trupave® 80	Brickpave 60	Brickpave 80	Brickpave 100	Bipave 80	Hollandstone 80 (VIC)	Hollandstone 60 (SA)	Hollandstone 80 (SA)
Avg. Weight	3.1kg	4.3kg	3.3kg	4.4kg	5.5kg	4.4kg	3.9kg	3.11kg	3.95kg
No. per Tonne	322	232	303	227	181	227	256	321	253
No. per m²	39	39	38	38	50	37	46	41	41
Slip Resistance	P5 - Very Low Risk	P5 - Very Low Risk	P5 - Very Low Risk						
Paver Type	С	С	С	С	С	С	С	С	С

# Ecopave®

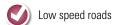


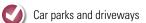


The Ecopave® permeable paver is a small format Type C segmental concrete paver designed for use in residential, multi-residential and commercial paving applications where sustainable water management must be considered. The Ecopave® paver is available in an easy to install 50mm thickness for residential applications and an 80mm version for commercial and industrial applications with both versions capable of being machine laid.

### **APPLICATIONS**









Footpaths

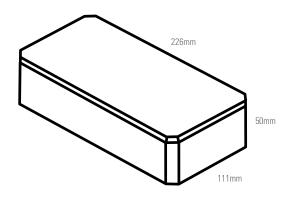
Heavy Industrial traffic (80mm)

Government/Council projects

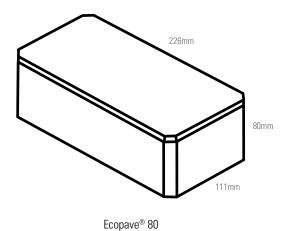
Road infrastructure

### **AVAILABLE SIZES**

Queensland / New South Wales / Victoria / South Australia

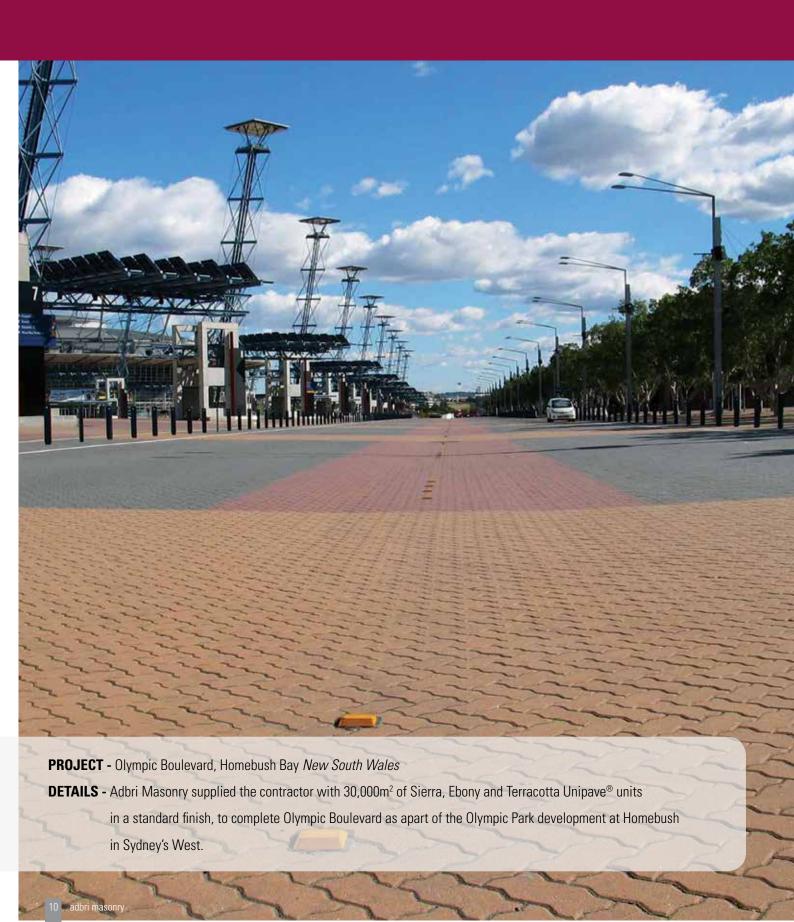


Ecopave® 50



PRODUCT	Ecopave® 50	Ecopave® 80		
Avg. Weight	2.8kg	4.2kg		
No. per Tonne	357	236		
No. per m²	39.8	39.8		
Slip Resistance	P5 - Very Low Risk	P5 - Very Low Risk		
Paver Type	С	С		

# Unipave®/BiLock





The superior interlocking design of the Unipave® paver together with state of the art manufacturing techniques ensures Unipave® pavements achieve dynamic synergies in stability and strength. These pavers can be machine laid and will support the loads of industrial traffic with an appropriately engineered design.

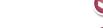
### **OTHER PROJECTS**

- Sadliers Transport Hub. 20,000m<sup>2</sup> of machine laid Made To Order Grey Unipave® pavers. Large paved area for interstate trains to load and unload.
- WesTrac Head Office, Holroy, NSW . Approximately 80,000m2 of 80mm Charcoal Unipave® paving. Heavy duty pavement primarily for the movement of track machinery and low loader trucking.
- Brighton Transport Hub, TAS. 25,000m<sup>2</sup> of 80mm Unipave<sup>®</sup> to support heavy vehicles and the transport of freight.

### **APPLICATIONS**



Carparks





Government/Council projects





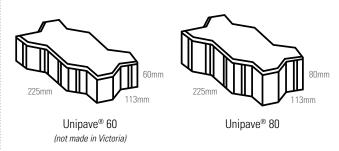
Road infrastructure

Machine lay

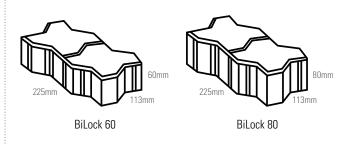


### **AVAILABLE SIZES**

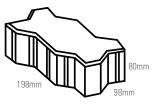
### New South Wales / Queensland / Victoria / South Australia



### New South Wales / Queensland



### North Queensland



Unipave® 80

Note: Pavers can be produced in a smooth, honed or shotblast finish.

PRODUCT	Unipave® 60	Unipave® 80	BiLock 60	BiLock 80	NORTH QUEENSLAND Unipave® 80
Avg. Weight	3.1kg	4.2kg	3.1kg	4.2kg	3.45kg
No. per Tonne	323	238	323	238	289
No. per m²	39	39	39	39	51
Slip Resistance	P5 - Very Low Risk				
Paver Type	А	А	А	А	А

## Anchorlok®





Anchorlok® pavers are the ideal solution for heavy industrial projects.

The unique interlocking 'L' shape ensures pavers interlock tightly allowing them to withstand the significant stresses found in heavy industrial applications, whilst still also having the ability to be machine laid.

### **OTHER PROJECTS**

- Woodlawn Bioreactor, Tomago 17,000m² machine laid grey Anchorlok® pavers.
- Yennora Distribution Centre 25,000m² grey Anchorlok® pavers, machine laid inter modal transport hub.
- Port Botany 7,000m<sup>2</sup> of Ancholok® pavers used in DP World's container terminals.

### **APPLICATIONS**



Carparks



Government/Council projects



Footpaths



Road infrastructure



Heavy industrial traffic

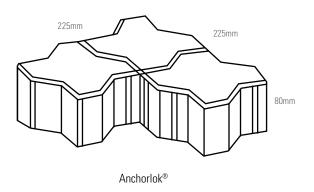


Machine lay

PRODUCT	Anchorlok®
Avg. Weight	6.5kg
No. per Tonne	153
No. per m²	26.66
Slip Resistance	P5 - Very Low Risk
Paver Type	А

### **AVAILABLE SIZES**

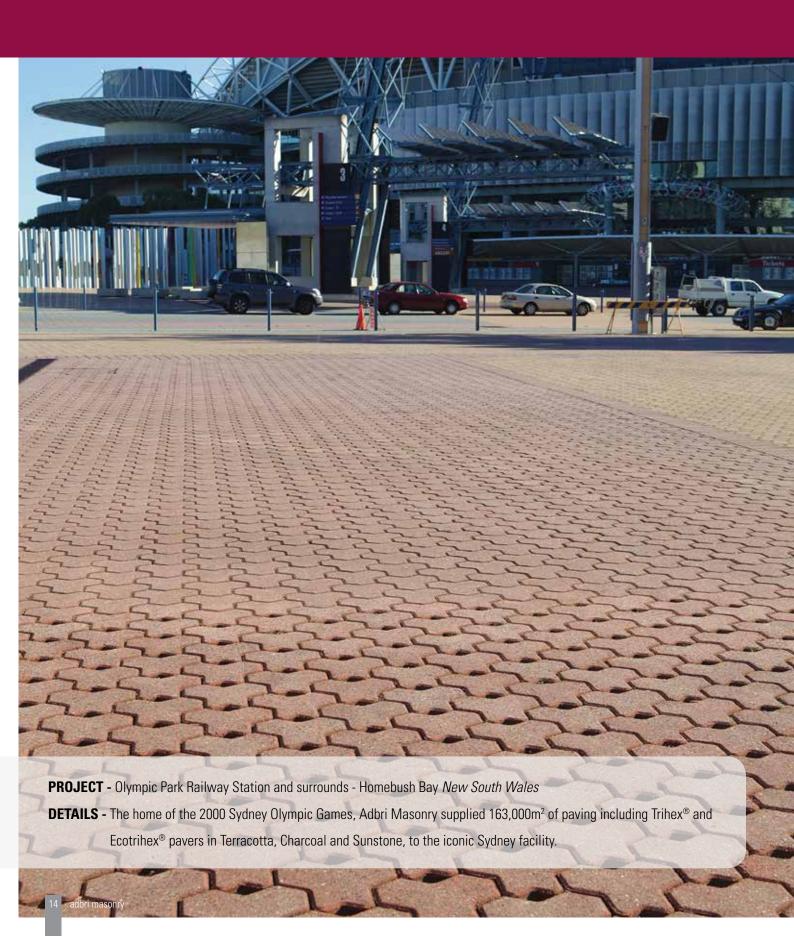
### New South Wales / Queensland / South Australia



Note: Pavers can be produced in a smooth, honed or shotblast finish.



## Trihex®/Ecotrihex®





Trihex® and Ecotrihex® pavers are industrial strength interlocking pavers that lend themselves to both high pedestrian and vehicular traffic areas. Offering a 'Type A' interlocking capacity, these versatile pavers have the ability to be utilised separately or seamlessly laid together to create a dynamic pavement solution. When used in a permeable paving system, Ecotrihex® pavers are an ideal permeable pavement solution, allowing water to permeate into the subgrade or be collected for future use. (For more information, the Ecotrihex® system is covered in detail in our Permeable Paving brochure).

### **OTHER PROJECTS**

- Bus station and forecourt Moore Park. 9,000m<sup>2</sup> of honed Charcoal coloured Ecotrihex® paving for the bus station set-down area located adjacent to the Sydney Cricket Ground, Sydney Football Stadium and Fox Studios.
- Eastern Water Treatment Plant 1100m<sup>2</sup> Ecotrihex<sup>®</sup> Charcoal pavers. Large carpark area for the new eastern water treatment plant in Victoria.
- Hampshire Road redevelopment Sunshine 1700m<sup>2</sup> smooth and shotblast Trihex® pavers. This project upgraded the footpaths on a road that services high foot and vehicle traffic.

### **APPLICATIONS**



Carparks



Government/Council projects



Streetscapes



Road infrastructure



Footpaths



Machine lay



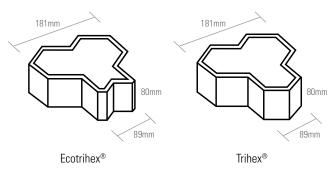
Heavy industrial traffic



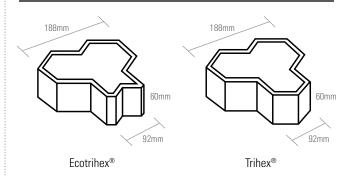
Permeable Paver (Ecotrihex®)

### **AVAILABLE SIZES**

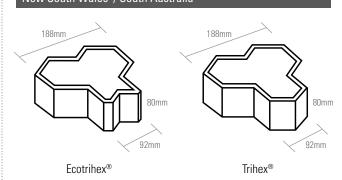
### Queensland



### Victoria



### New South Wales / South Australia



Note: Pavers can be produced in a smooth, honed or shotblast finish.

PRODUCT	Queer	ısland	Vict	oria	New South Wales / South Australia		
PRODUCI	Trihex®	Ecotrihex®	Trihex®	Ecotrihex <sup>®</sup>	Trihex®	Ecotrihex <sup>®</sup>	
Avg. Weight	3.7kg	3.53kg	3.7kg	3.2kg	4.3kg	3.8kg	
No. per Tonne	270	283	270	344	270	270	
No. per m²	46	46	43.5	43.5	46	46	
Slip Resistance	P5 - Very Low Risk	P5 - Very Low Risk	P5 - Very Low Risk				
Paver Type	А	А	А	А	А	А	

# Turfstone®/Turfgrid™



PROJECT - Service Road, River Park Drive subdivision, Loganholme Queensland

**DETAILS -** Adbri Masonry's Contracting Services team supplied and installed 270m² of Turfstone® paving to create a service road for Council vehicles for inspections and maintenance on site. The Turfstone® paving provided a stable platform to carry the loads of service vehicles whilst the grass growing through the Turfstone® pavers complimented the surrounding lake and vegetation.



Adbri Masonry's Turfstone® and Turfgrid™ product are an ideal solution for agricultural, livestock, commercial and residential erosion control projects. These easy to install permeable pavers also maintain an even ground level, whilst stabilising soft land and allowing water to filtrate through the surface layer, minimising any water build-up.

### **OTHER PROJECTS**

- Beach Road Northshore project, Noosa 2,500m² of Turfstone® paving was
  utilized in the trailer car park, Beach Road parking and for the Retreat West and
  East car parks.
- Roseville Chase Oval, NSW used 95m² of Turfgrid<sup>™</sup> paving to rejuvenate the turfed area around change rooms, which had previously been reduced to dirt through year round use.
- Waverly residential driveway and parking project, 80m² of Turfgrid™ pavers.
- Northbridge Oval, Turfgrid<sup>™</sup> pavers used in parking bays as a permeable paving driveway.

### **APPLICATIONS**



Carparks and driveways



Permeable pavements



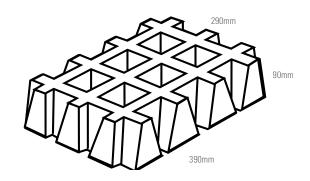
Revetment blocks for creek or river banks



Land Stabilisation

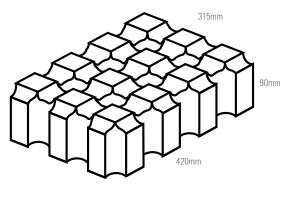
### **AVAILABLE SIZES**

### Queensland / New South Wales



Turfstone®

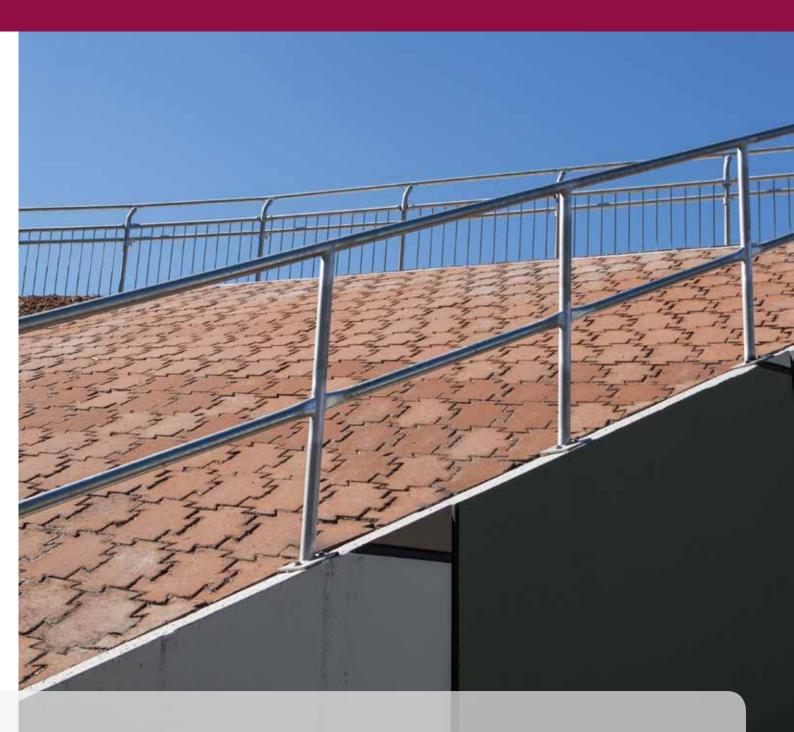
### Queensland / New South Wales / Victoria



Turfgrid™

PRODUCT	Turfstone®	Turfgrid™
Avg. Weight	14.7kg	17.9kg
No. per Tonne	68	55
No. per m²	8.8	7.5
Resistance to Salt Attack	Exposure Category	Exposure Category
Paver Type	С	С

### Quatrafix®



PROJECT - Celestial Way Bridge, Coomera Queensland

**DETAILS -** Adbri Masonry supplied the Gold Coast City council with 235m² of the Quatrafix system manufactured in the Pottery colour, to create a bridge abutment solution for the Celestial Way bridge in Coomera.



This robust, bridge abutment block has been designed with Main Roads Queensland to meet the stringent specification standards set out by road authorities. Ideal for use in commercial projects of any size, the Quatrafix® system provides versatile functionality with durable performance. The unique design of Quatrafix® system ensures it is easy to install and practical for use in any project requiring a strong bridge abutment block.

### **APPLICATIONS**



Bridge abutment



Government/Council projects



Road infrastructure

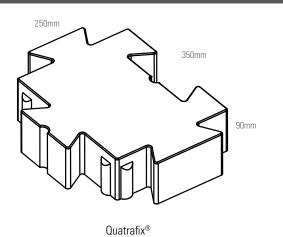


Slope stabilisation

PRODUCT	Quatrafrix®
Av. Weight	14.1kg
No. per Tonne	71
No. per m²	11.4
Paver Type	А

### **AVAILABLE SIZES**

### Queensland



Note - Made To Order (MTO) product only



### Tri-Lock<sup>™</sup>



PROJECT - Brisbane River riverbank, Brisbane, Queensland

**DETAILS -** Following recent flood events, the Hamilton North Shore development employed Adbri Masonry to design, supply and install over 1,400m² of Tri-Lock in natural grey to assist erosion control along the Brisbane River, riverbank.



The versatile Tri-Lock™ system features an effective environmental method of combating severe erosion problems in areas such as inland waterways, drainage canals, highway revetments, river embankments and boat ramps. The system is made up of two components: a lock block and a key block which, when laid together gives stability and integrity to areas prone to severe erosion. These user-friendly blocks are normally installed in dry conditions by hand on a suitable filter fabric.

### **APPLICATIONS**



Stormwater channels and drains



Wave impact areas ie lake shores or ocean foreshores



Culverts

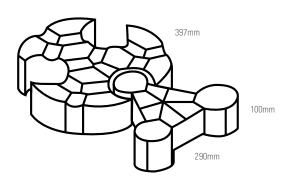


Boat ramps

PRODUCT	Tri-lock™
Av. Weight	31.25kg (per pair)
No. per Tonne	32
No. per m²	5.4
Paver Type	А

### **AVAILABLE SIZES**

### Queensland



Tri-Lock™

Note - Made to order product only



### Product Grid

Product	Dimensions (mm)	Unit Weight	No per m²	No per tonne	Paver Type	Availability
Trupave® 60	225 x 112 x 60	3.1kg	39.3	322	С	NSW
Trupave® 80	225 x 112 x 80	4.3kg	39.3	232	С	NSW
Brickpave 60	230 x 113 x 60	3.3kg	38	303	С	QLD
Brickpave 80	230 x 113 x 80	4.4kg	38	227	С	QLD
Brickpave 100	200 x 100 x 100	5.5kg	50	181	С	QLD
Bipave 60	230 x 113 x 60	3.3kg	38	303	С	QLD
Bipave 80	230 x 115 x 80	4.4kg	37	227	С	QLD
Hollandstone 60	220 x 110 x 60	3.11kg	41	321	С	SA
Hollandstone 80	220 x 110 x 80	3.95kg	41	253	С	SA
Hollandstone 80	208 x 104 x 80	3.9kg	46	256	V	VIC
Unipave® 60	225 x 113 x 60	3.1kg	39	323	А	NSW, QLD, VIC, SA
Unipave® 80	225 x 113 x 80	4.2kg	39	238	А	NSW, QLD, VIC, SA
Unipave® 80	198 x 98 x 80	3.45kg	51	289	А	Nth QLD
BiLock 80	225 x 113 x 80	4.2kg	39	238	А	NSW, QLD
BiLock 60	225 x 113 x 60	3.1kg	39	323	А	NSW, QLD

Product	Dimensions (mm)	Unit Weight	No per m²	No per tonne	Paver Type	Availability
Anchorlok®	225 x 113 x 80	6.5kg	26.66	153	А	NSW, QLD, SA
Trihex®	181 x 89 x 80	3.7kg	46	270	А	QLD
Ecotrihex®	181 x 89 x 80	3.53kg	46	283	А	QLD
Trihex®	188 x 92 x 60	3.7kg	43.5	270	А	VIC
Ecotrihex®	188 x 92 x 60	3.2kg	43.5	344	А	VIC
Trihex®	188 x 92 x 80	4.3kg	46	270	А	NSW, SA
Ecotrihex®	188 x 92 x 80	3.8kg	46	270	А	NSW, SA
Turfstone®	390 x 290 x 90	14.7kg	8.8	68	С	NSW, QLD, SA
Turfgrid™	420 x 315 x 90	17.9kg	7.5	55	С	NSW, VIC, SA
Ecopave® 50	226 x 111 x 50	2.8kg	39.8	357	С	NSW, QLD, VIC, SA
Ecopave® 80	226 x 111 x 80	4.2kg	39.8	236	С	NSW, QLD, VIC, SA
Quatrafix®	350 x 250 x 90	14.1kg	11.4	71	А	QLD
Tri-lock™	397 x 290 x 100	31.25 (per pair)	5.4	32	А	QLD

### Specification Guidelines

### **GUIDELINES**

The following information is a direct extract from the Concrete Masonry Association of Australia, to provide specifiers with an understanding of the product, the Guide sets out the requirements for the manufacture of concrete segmental pavers. It takes account of the latest research and development and references Australian Standard AS/NZ 4456 Masonry Units and Segmental Pavers - Methods of Test. Current industry design, detailing and construction guides should also be referenced when specifying concrete segmental pavers.

### **DEFINITIONS**

### Residential Pedestrian Pavements

Pavers subject only to foot traffic, in residential areas.

### Public Footpaths

Low Volume Paths in public gardens, pavements at schools or campuses, hard landscape areas, common outdoor areas of residential buildings. Suburban shopping area pavements, pedestrian areas around institutional buildings, sporting or recreational areas.

High Volume Pavements with high-volume pedestrian traffic (over 30,000 passes per day). Inner-city and major suburban pedestrian malls and paths.

### Residential Driveways

Light traffic Operations of vehicles with a gross mass not exceeding 3 tonnes. Medium traffic Operations of vehicles with a gross mass more than 3 but not exceeding 10 tonnes, with occasional use by heavier vehicles not exceeding statutory limits for tyre, wheel and axle loads.

### Roadways

Minor Up to 150 vehicles per day, eg.residential accessways, cul-de-sacs.

Local and collector 150 to 3,000 vehicles per day

Distributor Over 3.000 vehicles per day

### Industrial Pavements

Pavements that may be subject to a range of unregulated vehicle types, axle configurations, wheel and tyre pressures.

### Seamental Pavers

Pavers (each with a gross plan area not exceeding 0.1m²) used in combination with a bedding course to form a surfacing layer.

*Type* - Pavers are identified by their ability to interlock and are designated Type A, B or C.

*Type A* - Dentated pavers that key into each other and, by their plan geometry, interlock and resist the relative movement of joints parallel to both the longitudinal and transverse axes of the pavers.













*Type B* - Dentated pavers that key into each other and, by their plan geometry, interlock and resist the relative movement of joints parallel to one axis.



Type C - Pavers that do not interlock.



### General

Concrete segmental pavers possess a number of advantages over other forms of segmental paving. Firstly, in contrast to alternative forms of paving such as brick, they can be consistently mass produced to high individual dimensional and strength tolerances. Secondly, by virtue of their shape, they are designed to be laid either by hand or by machine using relatively unskilled labour and simple construction equipment. Concrete segmental pavements offer advantages over conventional flexible and rigid pavements in several specific areas as noted below.

### Aesthetic Appeal

Due to their texture, human scale, pattern and wide range of colours, concrete pavers offer unique aesthetic benefits when compared to other forms of pavement in their ability to integrate and harmonise with both the built and natural environments.

### Safety and Environmental

With respect to skid resistance, light reflection, water absorption and noise generation, concrete segmental pavements have been demonstrated to offer advantages over other forms of surfacing for residential, pedestrian and trafficked areas.

### Structural and Operational Characteristics

Concrete segmental pavements are highly resistant to the effects of braking, slewing or acceleration of vehicles. Because of these features and their immunity to softening by fuel and oil spillages, concrete segmental pavements are particularly suited for use at bus stops, bus depots and

terminals, intersections, pedestrian cross-walks, in heavy-duty pavements and aircraft aprons.

### Access to Services

The fact that concrete segmental pavements can be repeatedly lifted and re-laid means that ready access is provided to underground services and that trenching and reinstatement is less unsightly than in conventional pavements.

### Maintenance

Maintenance costs can be kept low because it is possible to rehabilitate areas of concrete segmental pavement without having to purchase a new surface.

Table 1: Guide to requirements of concrete segmental pavers

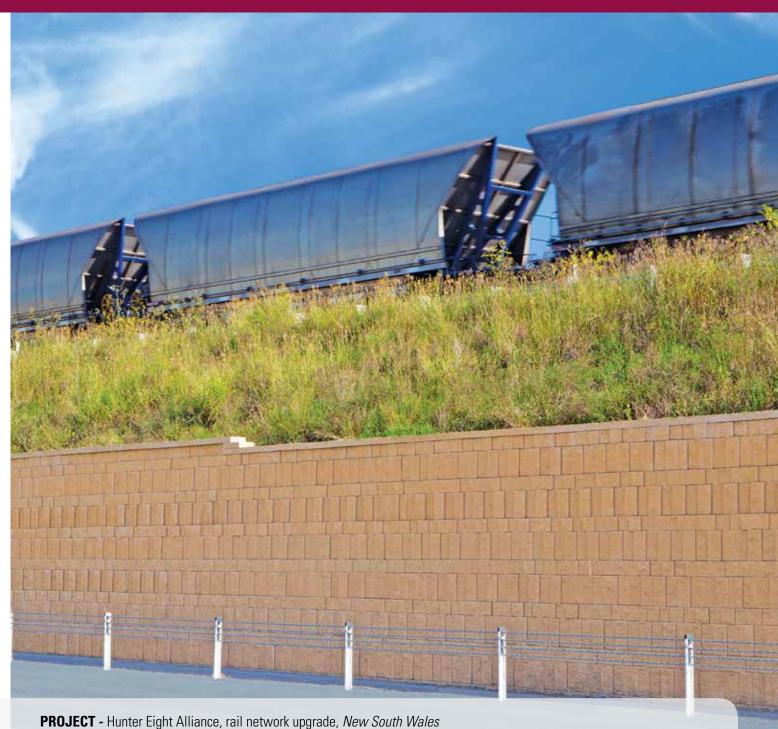
APPLICATIONS	Characteristic Breaking Load (kN)	Characteristic Flexural Strength (MPa)	Minimum Thickness (mm)	Shape (type)	Dimension Deviations (Category)	Chamfers	Abrasion Resistance (mean abrasion index)	Slip Resistance (co-efficient of friction)	Salt Resistance (cycles)
Residential Pedestrian									
Not Around Pools	2	2	No Limit	Any	DPAI or DPB1	Optional	No Limit	0.4	0
Around Pools	2	2	No Limit	Any	DPAI or DPB1	Optional	No Limit	0.4	40
Residential Driveways									
Light Traffic	3	2	No Limit	Any	DPAI or DPB1	Optional	7	0.4	0
Medium Traffic	4	3	No Limit	Any	DPAI or DPB1	Optional	7	0.4	0
Public Footpaths									
Low Volume	5	3	No Limit	Any	DPB2	Optional	5	0.4	0
High Volume & Pedestrian Malls	5	3	No Limit	Any	DPB2	Optional	3.5	0.4	0
Roads									
Minor 5 3 60	5	3	60	Any	DPB2	Yes	5	0.4	0
Local & Collector	5	3	80	Any	DPB2	Yes	5	0.4	0
Distributor	5	3	80	А	DPB2	Yes	5	0.4	0
Industrial Pavements	10	4	80	А	DPB3	Yes	7	0.4	0
Relevant Australian Standards	AS/NZS4456.5	AS/NZS4456.5	N/A	N/A	AS/NZS4456.3	N/A	AS/NZS445.9	AS/NZS3661.1	AS/ NZS4456.1

Note - Values in the table are applicable to small paving units only and is not applicable to flag pavers

NA =not applicable, O =optional

- 1 Capable of taking occasional 8.2-t axle loads provided that design, detailing, construction and maintenance are carried out in accordance with CMAA recommendations.
- 2 The resultant joint width is a combination of paver dimensional deviation and laying procedures - for large pavement applications, manufacturer's advice should be sought.
- 3 At 28 days (it is common to test at an earlier age and correlate the results to 28 day data).
- 4 Interlocking shapes offer superior performance in Road applications -appropriate design approaches should be considered.
- 5 It is intended that in this category, dimensional deviations will be controlled to correspond with the intended laying procedures.
  - Note: For freeze/thaw requirement it is suggested that a suitable deterioration value (weight loss) be established between the specifier and the manufacturer based on the text procedure ASTM C666 Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing.
- 6 Abrasion resistance at 90 days

### Landmark



PROJECT - Hunter Eight Alliance, rail network upgrade, New South Wales

**DETAILS** - Adbri Masonry supplied 1,800m<sup>2</sup> of Landmark retaining wall system as a part of the Hunter Eight Alliance rail network upgrade, which saw the design and construction of a third railway track from Maitland to Whittingham to meet the future demands of coal in the region.



Approved by RTA and Main Roads, the Landmark system is a highly flexible geogrid retaining wall system for use in the design and construction of commercial and reinforced walls, with maximised resistance to overturning forces. The lockbar provides a positive connection between the geogrid reinforcement and the Landmark units to produce a cost-effective solution by reducing required geogrid quantities.

### **OTHER PROJECTS**

- Calamvale with a maximum height of 5 metres over two terraces, approximately 800m² of Landmark retaining wall was installed using earth anchors for local developer.
- Gladstone approximately 450m² of the Landmark system in the colour Sandstone was installed around private residence of a local developer, which had a height of 4.5m with geogrid reinforcement for the majority of the wall, however smaller walls for landscaping purposes were installed to 1m maximum height with no fines concrete.
- St Andrews School, Peregian Springs approximately 200m<sup>2</sup> of Sandstone Landmark retaining wall installed to 1.5m maximum height using no fines concrete around classroom buildings.

### **FEATURES**



Near vertical wall



RTA/Main Roads approved†

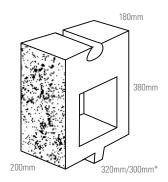


Staggered finish on block faces giving the ability to be used aesthetically to create a checkerboard effect



Lockbar providing maximum block-grid connection for geogrid designs

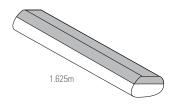
### **AVAILABLE SIZES**



Landmark Tapered Full Component



Landmark Half Component



Lock Bar

\*Equal number of each size on pallet

Anchor Landmark	NSW	Nth QLD	Sth QLD	VIC
Availability	MT0	MT0	MT0	MT0

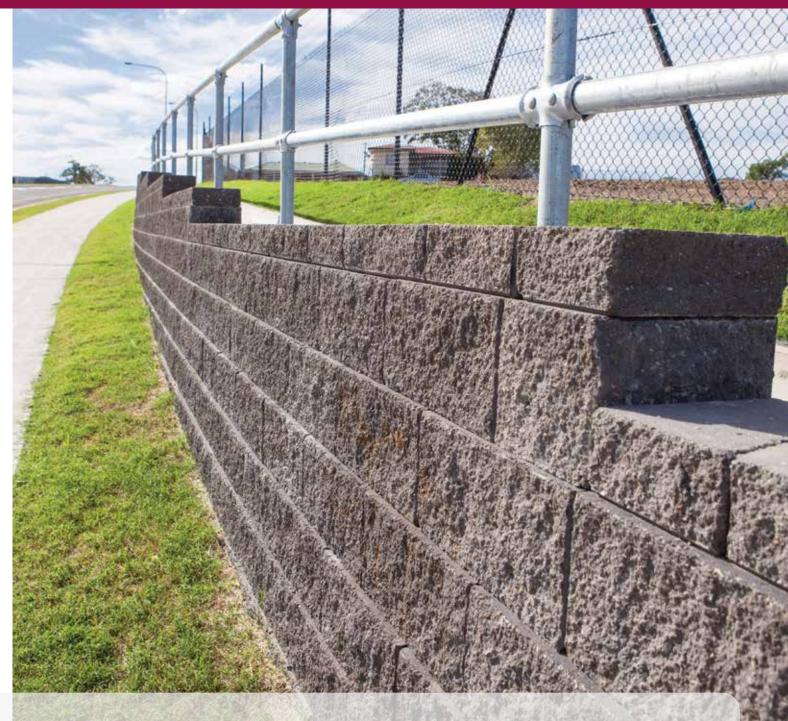
PRODUCT	Tapered Full Component	Tapered Half/Foundation Component
Av. Weight	37kg	23kg
No. per Tonne	No. per Tonne 27.03 43.48	
No. per m²	13.16	26.32
Minimum Setback	1:14 (4°)	1:14 (4°)
Compressive Strength	Minimum 28MPa	Minimum 28MPa

 $<sup>^{\</sup>rm t}$  Approved under the "NSW RMS Design Specification R57 - Design of Reinforced Soil Walls"

Note that various capping options are available.

Note - For information regarding the maximum height this product can be built to, please refer to the Segmental Retaining Wall Brochures.

### **Vertica**®



PROJECT - Beenleigh ring road, Beenleigh, Queensland

**DETAILS** - Adbri Masonry worked with BMD Construction to install over 150m<sup>2</sup> of Charcoal Vertica in a slight convex curve following a newly introduced ring road servicing traffic in and around the Beenleigh area.



The Vertica® system is a versatile segmental retaining wall that is able to create near vertical walls to great heights using geogrid reinforcement. Vertica® retaining wall blocks can be made to order in a colour to suit the specific design elements of a project (consider minimum quantities and lead times). The system's capping unit provides a structured, uniform finish that perfectly compliments the clean design of the Vertica® retaining wall.

### **OTHER PROJECTS**

- Coomera Waters, Coomera a made to order slate colour of Vertica®
   blocks using slag to prevent salt attack was installed to a maximum height of 3 metres around waterfront canals in the estate.
- Murrumba Downs Shopping Centre Approximately 1000m<sup>2</sup> of natural coloured Vertica® retaining wall installed to a maximum of 4 metres in height.
- Pacific Pines State School Approximately 2,200m<sup>2</sup> of Sandstone and Brushwood coloured units. Installed to maximum 4m heights using geogrid or no fines concrete.

### **FEATURES**

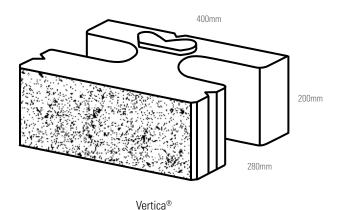


Near vertical wall



RTA/Main roads approved†

### **AVAILABLE SIZES**



400mm 75mm 300mm

Vertica® Cap

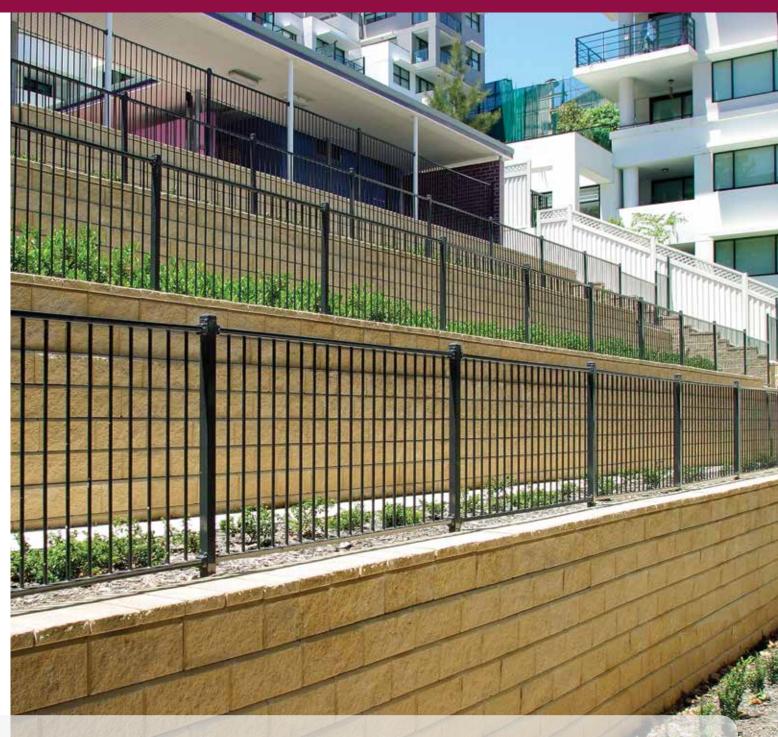


PRODUCT	Vertica®	Vertica® Cap	
Av. Weight	38.4kg	19.1kg	
Av. No. per Tonne	26.04	52.36	
Av. No. per m²	11.1	2.5 L/m	
Setback	2°	-	
Compressive Strength	Minimum 24MPa	Minimum 24MPa	

<sup>&</sup>lt;sup>†</sup> Approved under the "NSW RMS Design Specification R57 - Design of Reinforced Soil Walls"

Note - For information regarding the maximum height this product can be built to, please refer to the Segmental Retaining Wall Brochures.

### Allan Block® Collection



PROJECT - Ultimo Public School Upgrade - Sydney, New South Wales

**DETAILS** - Located on very steep terrain, this project required a series of two metre high terraced Allan Block® retaining walls amounting to 360m² of product.



200mm

200mm



The split textured Allan Block® collection is ideal for building large, strong, durable commercial retaining walls. These walls have the capability to create convex or concave curves, straight walls, right angle corners, steps and terraced walls.

### **OTHER PROJECTS**

- Deakin University Melbourne 200m<sup>2</sup> of AB Classic, Charcoal. This project comprised a 5 metre high wall around a central car park.
- Second Ponds Creek Kellyville Ridge/Braemont New South Wales walls used to bench out the housing blocks of the subdivisions
- Butu Wargun Drive Pemelway New South Wales 670m<sup>2</sup> of AB Vertical, was built 5m high to support the factory stocking.

### **FEATURES**



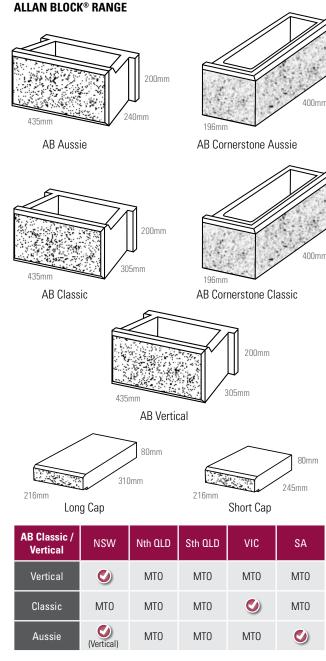
Near vertical (AB Vertical)



Setback (AB Aussie, AB Classic)



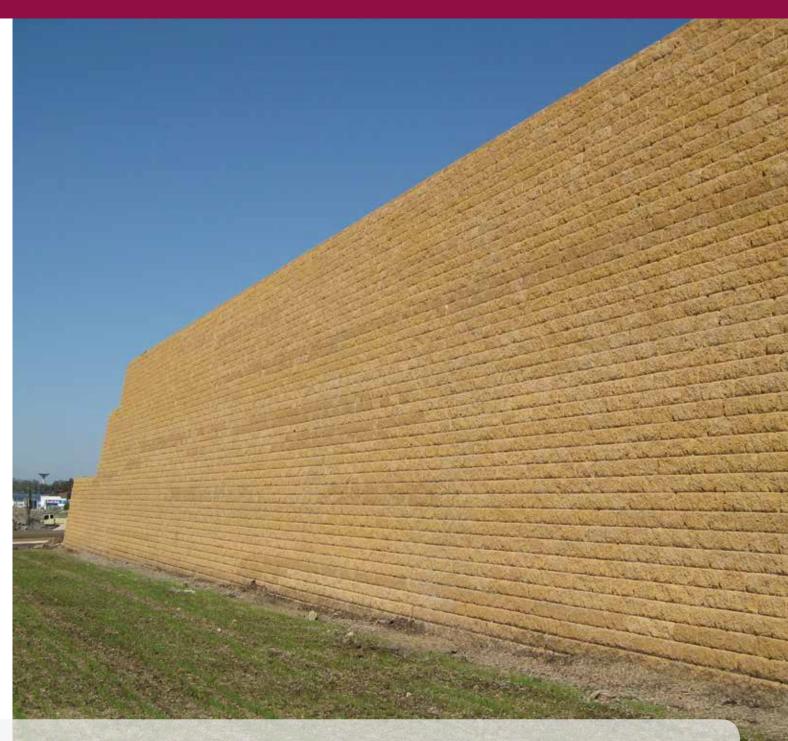
RTA/Main roads approved† (AB Classic, AB Vertical)



PRODUCT	AB Vertical	AB Classic	AB Aussie	AB Cornerstone Aussie	AB Cornerstone Classic	Capper Long	Capper Short (VIC)
Av. Weight	32.5kg	32.5kg	29.4kg	22.2kg	22.2kg	10.4kg	8kg
No. per Tonne	31	31	34	45	45	96	125
No. per m²	11.5	11.5	11.5			4.6 L/m	4.6 L/m
Minimum Setback	1:40 (1.4°)	1:9.5 (6°)	1:40 (1.4°)			-	-
Compressive Strength	Minimum 20MPa	Minimum 20MPa	Minimum 20MPa			-	-

<sup>&</sup>lt;sup>†</sup> Approved under the "NSW RMS Design Specification R57 - Design of Reinforced Soil Walls"

## Diamond Pro Stone Cut<sup>™</sup>



PROJECT - Southlink Business Park - Parkinson, Queensland

**DETAILS** - Adbri Masonry's Contracting Services Division utilised approximately 2,800m<sup>2</sup> of Diamond Pro Stone Cut<sup>™</sup> units in the colour Sandstone to create this 9.5m high wall, required to support the building platforms of a new industrial estate.



The Diamond Pro Stone Cut™ retaining wall system is a multi piece retaining wall system that recreates the random, distressed appearance of a natural rock face providing the opportunity to build very tall, durable, commercial retaining walls that effortlessly compliment any natural environment. The addition of the Anchor Wall® rear lip system ensures uniform setback, proven grid connections and easy installation.

### **OTHER PROJECT**

 South Hills Industrial Estate Robina - Natural colour, 470m long up to 9m in height completed using the full sized unit only.

### **FEATURES**



Can be used with a combination of sizes or utilising a single size

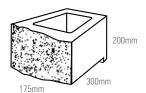


RTA/Main roads approved†

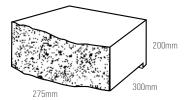


Manufactured to replicate natural stone appearance, using a 3 piece block system

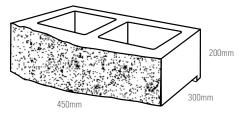
### **AVAILABLE SIZES**



175 Pair Component



275 Pair Component



Full Unit

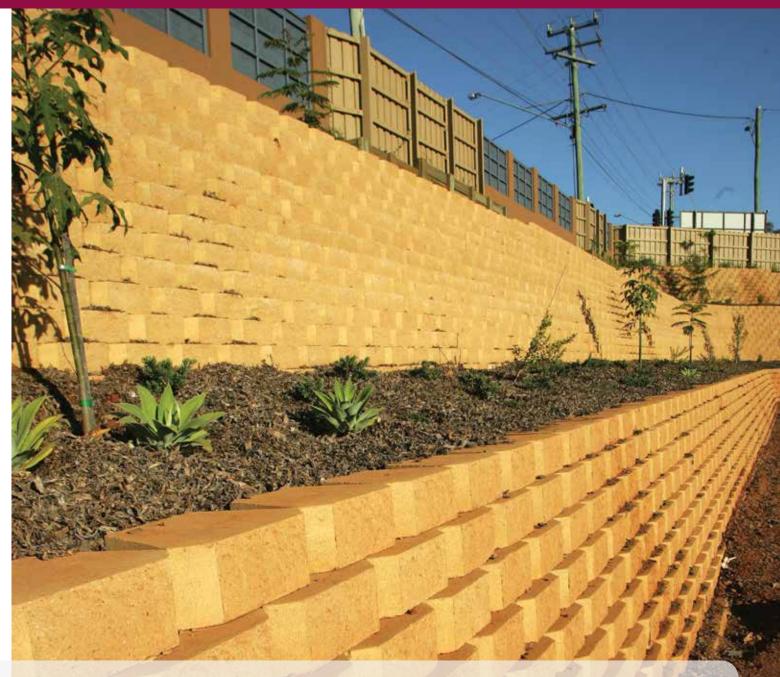


Diamond Pro Stone Cut™	NSW	Nth QLD	Sth QLD	VIC	SA
Availability	MT0	MT0	MT0	MT0	MT0

PRODUCT	175 Pair	275 Pair	Full Unit	Capping Stone
Av. Weight	35kg (with 275 pair)	35kg (with 175 pair)	35kg	19.1kg
No. per Tonne	28.57 (with 275 pair)	28.57 (with 175 pair)	28.57	52.36
No. per m²	5.55 (with 275 pair)	5.55 (with 175 pair)	5.55	2.20 L/m
Minimum Setback	1:8 (7.1°)	1:8 (7.1°)	1:8 (7.1°)	1:8 (7.1°)
Compressive Strength	Minimum 24MPa	Minimum 24MPa	Minimum 24MPa	-

 $<sup>^{\</sup>scriptscriptstyle \dagger}$  Approved under the "NSW RMS Design Specification R57 - Design of Reinforced Soil Walls"

### Diamond®/Cut Diamond®



**PROJECT** - Kingfisher Gardens Retirement Village, *Queensland* 

**DETAILS** - This project in Toowoomba was supplied, installed and certified through Adbri Masonry's Contracting Services. The project incorporated approximately 350m² of Sandstone Cut Diamond® units, which were terraced with the lower walls designed to accommodate forces from the walls above as well as to take live loads from pedestrian and road pavements constructed above the top wall.



Diamond® and Cut Diamond® blocks can be constructed up to 1.2m in height for standard installation and up to 8 metres high with the use of geogrid reinforcement. Diamond® or Cut Diamond® retaining walls can blend with any environment or be used to create a stylish feature with high visual impact.

### **OTHER PROJECTS**

- The Princess Alexandria Hospital has utilized in excess of 1000m<sup>2</sup>
  of Charcoal Diamond<sup>®</sup> units to support access roads, provide an earth bunker
  around the radiology unit and for general landscape purposes.
- The use of the Diamond® retaining wall system was specified into the The Parks at Stretton subdivision. This project commenced in 2003 and in subsequent years has had an additional 8,000m² of this retaining wall supplied and installed as the development progressed. The developer and consulting engineers have each independently used this sytem in other projects such as Kingsmore Estate and Vistas North subdivisions.

### **FEATURES**



Curved Walls

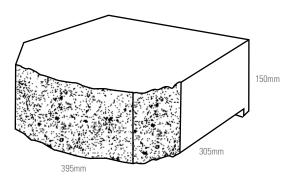


Setback wall

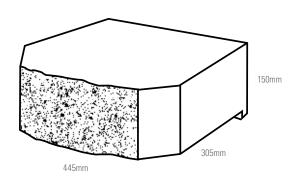


Can be built to over 2m as a gravity structure

### **AVAILABLE SIZES**



Diamond®



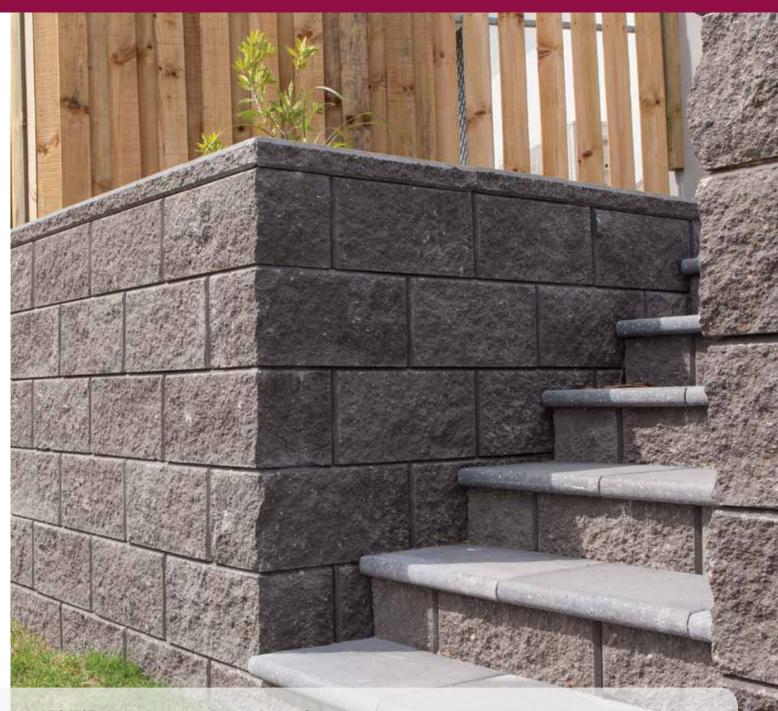
Cut Diamond® (Nth QLD Only)

Diamond®	NSW	Nth QLD	Sth QLD	VIC	TAS
Availability	MT0	<b>Ø</b>	<b>Ø</b>	MT0	MT0

PRODUCT	Diamond®	Cut Diamond® (Nth QLD Only)	
Av. Weight	29.3kg	32.3kg	
No. per Tonne	34.13	30.96	
No. per m²	16.9	15	
Minimum Setback	1:3 (18°)	1:3 (18°)	
Compressive Strength	Minimum 24MPa	Minimum 24MPa	

<sup>\*</sup>Note - For information regarding the maximum height this product can be built to, please refer to the Segmental Retaining Wall Brochures.

### Versawall®



PROJECT - Mountview estate, Redbank Planes, Queensland

**DETAILS** - As apart of the Mountview Estate, Adbri Masonry supplied and installed over 1000m<sup>2</sup> of Charcoal Versawall<sup>®</sup> for the bold new main entrance into the subdivision. This project, completed in a number of stages, featured sections over 2000mm high as well as several sets of stair cases to access to the newly built units.



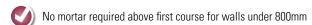
The Versawall® system is a unique interlocking product perfect for reclaiming sloping land and constructing raised garden beds. Each Versawall® block has self locating lugs which allow for quick and easy wall assembly. The product has no setback and blocks are stacked directly on top of each other to create a contemporary looking vertical wall.

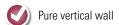
### **OTHER PROJECTS**

- Grassmere, NSW Over 175m<sup>2</sup> of Charcoal Versawall<sup>®</sup> block was used to create a 600mm high boundary fence.
- Pennant Hills, NSW 90m<sup>2</sup> of Sunstone Versawall® block was used to build a 1.6m high boundary wall for the local council.
- Forrest Ridge, QLD Over 260m² of Charcoal Versawall® block was used in a subdivision to construct walls to the height of 1.5m.

### **FEATURES**





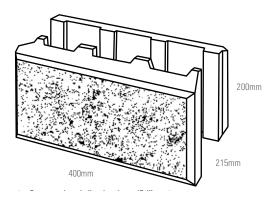


Gravity walls can be built up to 800mm in height\*

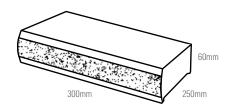


Versawall™	NSW	Nth QLD	Sth QLD	VIC	SA
Availability	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>	

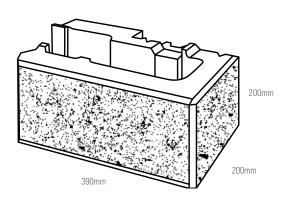
### **AVAILABLE SIZES**



Versawall® Standard Unit



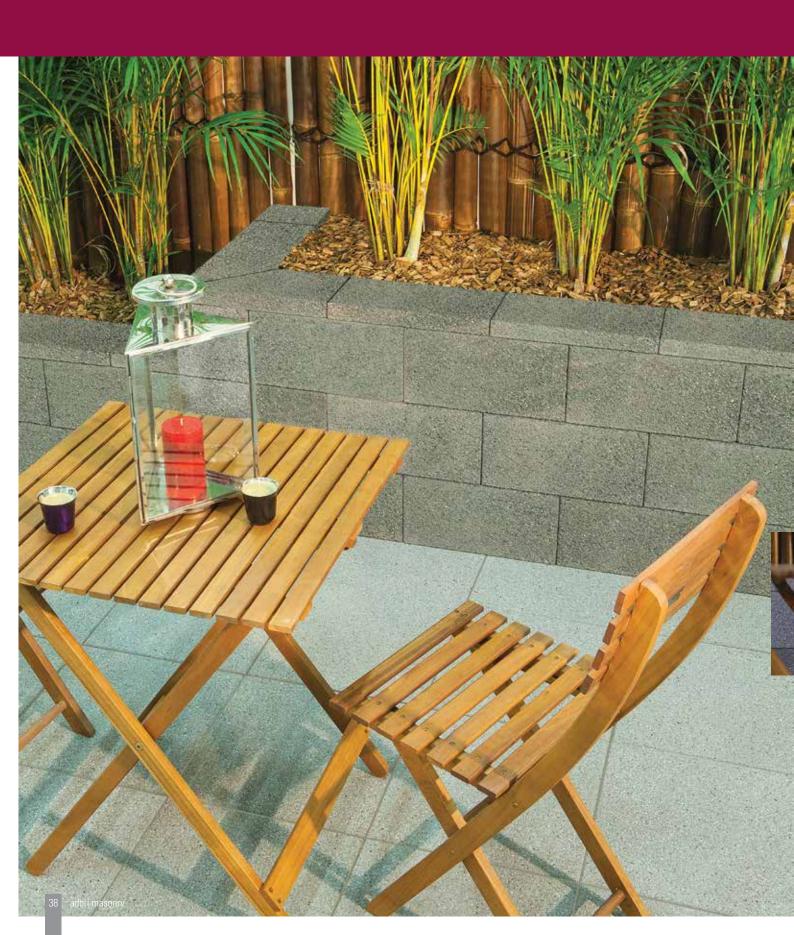
Versawall® Capping Unit



Versawall® Corner Unit

PRODUCT	Versawall® Standard Unit	Versawall® Capping Unit	Versawall® Corner Unit		
Av. Weight	21.5kg	9.6kg	21.5kg		
Av. No. per Tonne	46.5	104	46.5		
Av. No. per m²	12.5	3.3L/m	-		
Compressive Strength	Minimum 20MPa		Minimum 20MPa		

## Versastone®

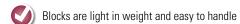




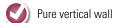
Versastone® features a an architecturally inspired shotblast surface texture which exposes the natural aggregate stones in each block. This premium, dry stack, interlocking retaining wall system is available in a range of modern colours adding depth, dimension and enviable aesthetics to your project.

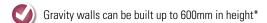
### **FEATURES**









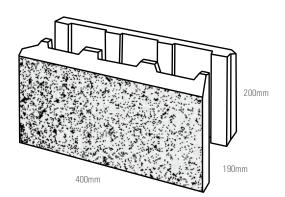




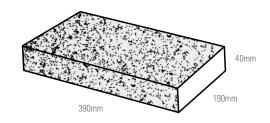
Versawall™	NSW	Nth QLD	Sth QLD	VIC	SA
Availability	<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b>	<b>Ø</b>



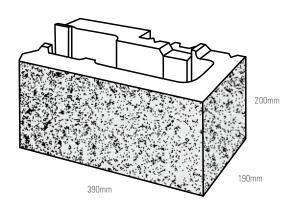
### **AVAILABLE SIZES**



Versastone® Standard Unit



Versastone® Capping Unit



Versastone® Corner Unit

PRODUCT	Versastone® Standard Unit	Versastone® Capping Unit	Versastone® Corner Unit
Av. Weight	15.27kg	7.00kg	15.38kg
Av. No. per Tonne	65	142	65
Av. No. per m²	12.5	2.5L/m	-
Compressive Strength	Minimum 20MPa	-	Minimum 20MPa

### Versaloc®



**PROJECT -** Multi Residential Apartments – Lygon Street, *Melbourne* 

**DETAILS** - The multi-storey residential apartment development in Melbourne's upmarket suburb of Carlton used over 25,000 Versaloc® units. Laying 650 Versaloc® units per day, compared to 250 and 300 standard grey blocks, Peter Zeolla from Pro Wall commented "The Versaloc® system is quick, clean and easy. My team will definitely use this product in future projects."



The Versaloc® Walling System is Adbri Masonry's solution to commercial walling projects. The Versaloc® Walling System is a dry stack system which after the bedding course, does not require the use of mortar. The units feature unique self locating lugs which space units eliminating the need for mortar and ensuring rapid wall construction.

### **OTHER PROJECTS**

- Newtown Police Station utilised 1,430 units in the upgrade of the station.
- Plenty Hill apartments, over 20,000 units used to construct basement and lift shaft

### **APPLICATIONS**



Retaining walls



Load bearing walls

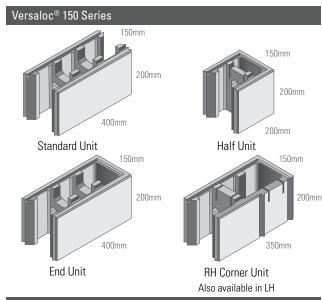


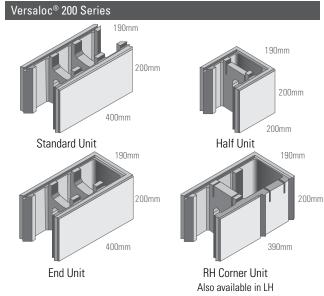
Partition walls

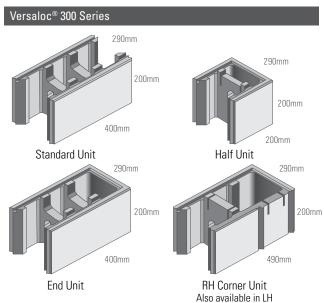
V	ersaloc®	NSW	Nth QLD	Sth QLD	VIC	SA
λ.	150 series	<b>Ø</b>				MT0
Availability	200 series	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>
A	300 series			MTO	MT0	MTO

PRODUCT	150 Series	200 Series	300 Series (VIC Only)
Av. Weight	14.5kg	15.6kg	19.3kg
Av. No. per Tonne	68.97	64. 10	51.9
Av. No. per m²	12.5	12.5	12.5
Compressive Strength	20MPa	20MPa	20MPa

### **AVAILABLE SIZES**

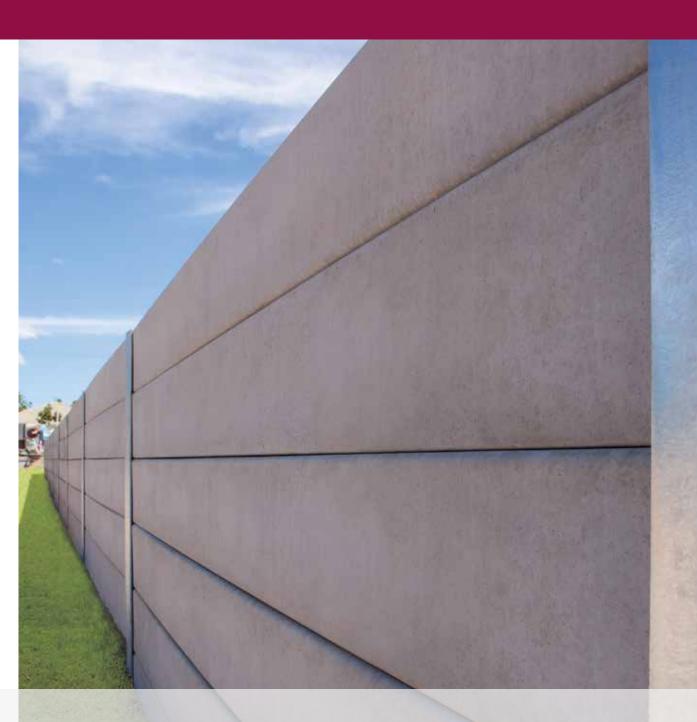






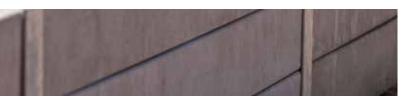
Note - For information regarding the maximum height this product can be built to, please refer to the Segmental Retaining Wall Brochures.

# Concrete Sleepers



PROJECT - Residential Sleeper Wall, Richlands, Queensland

**DETAILS -** Adbri Masonry designed, supplied and installed over 130m<sup>2</sup> of concrete sleepers for this residential project in the Western Suburbs of Brisbane. The project required a retaining solution up to a height of 1500mm, which was achieved using 2400mm long sleepers in a natural grey colour and smooth finish.



Adbri Masonry's range of Concrete Sleepers have been designed with versatility and ease of construction in mind. Capitalise on the system's small base footprint, and the ability to build over 4000mm high (with an engineered design), Adbri Masonry's range of concrete sleepers are a proven solution for boundary wall and traditional retaining applications. With wall designs available from our in-house engineering team and utilising steel frames specifically designed for Adbri's concrete sleepers, the system can be constructed to suit various applications in a range of heights.

### **FEATURES**



Vertical Walls



Small footprint at base of structure



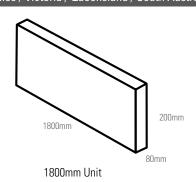
Fencing can be attached directly to wall face

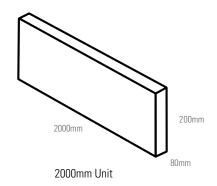
V	ersaloc®	NSW	Nth QLD	Sth QLD	VIC	SA
<b>&gt;</b>	2400mm	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>		
Availability	2000mm	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>		
A	1800mm		<b>Ø</b>			

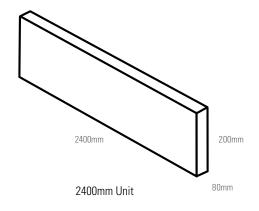
PRODUCT	2400mm Unit	2000mm Unit	1800mm Unit
Av. Weight	92kg	77kg	69kg
Av. No. per Tonne	10.9	13	14.5
Av. No. per m²	2.1	2.5	2.8
Minimum Setback	0°	0°	0°
Compressive Strength	32 MPa Minimum	32 MPa Minimum	32 MPa Minimum

### **AVAILABLE SIZES**

New South Wales / Victoria / Queensland / South Australia









Note - For information regarding the maximum height this product can be built to, please refer to the Adbri Masonry Concrete Sleepers Brochure.

## **Product Grid**

						M	aximum Heigh	its	
	Product	Dimensions (mm)	No per m²	No per tonne	Unit Weight (kg)	Residential Gravity Walls	No Fines	Geogrid	Availability*
	Landmark Tapered Full Component	200 x 380 x 300 200 x 380 x 320 (equal no. each pallet)	13.16	27.03	37				MT0
	Landmark Half Component	200 x 190 x 300 200 x 190 x 320 (equal no. each pallet)	26.32	43.48	23	950mm	1900mm	20000mm	MTO
	Landmark Locking Bar	1.65m	-	-	-				MTO
	Vertica®	400 x 200 x 280	11.1	26.04	38.4	1000mm	2000mm	12000mm	NTH OLD
	Vertica® Cap	400 x 75 x 300	2.5 L/m	52.36	19.1				STH QLD
	AB Aussie	435 x 200 x 240	11.5	34	29.4	600mm 800mm	2000mm 2000mm	12000mm	NSW (Vertical) SA
	AB Vertical	435 x 200 x 305	11.5	31	32.5	OGGIIIII	2000111111	1200011111	NSW
	AB Classic	435 x 200 x 305	11.5	31	32.5	1000mm	2000mm	12000mm	VIC
	Сар	216 x 80 x 310	4.6 L/m	86	11.6				NSW, SA
With Miles	Short Cap	216 x 80 x 245	4.6 L/m	125	8kg				VIC
	Diamond Pro 175 pair unit	175 x 200 x 300	5.55 (with 275 pair)	28.57 (with 275 pair)	35 (with 275 pair)				
	Diamond Pro 275 pair unit	275 x 200 x 300	5.55 (with 175 pair)	28.57 (with 175 pair)	35 (with 175 pair)	1000mm	2200mm	12000mm	MTO
	Diamond Pro Full unit	450 x 200 x 300	5.55	28.57	35	.3331111	223311111	.233011111	0
	Diamond Pro Capping Stone	455 x 100 x 264	2.20L/m	52.36	19.1				

<sup>\*</sup>All products available nationally as Made to Order (MTO), minimum quantities, lead times and freight applies

For information regarding the maximum height this product can be built to, please refer to the Segmental Retaining Wall Brochures.

						M	laximum Heigh	ts	
	Product	Dimensions (mm)	No per m²	No per tonne	Unit Weight (kg)	Residential Gravity Walls	No Fines	Geogrid	Availability
	Diamond <sup>®</sup>	395 x 305 x 150	16.9	34.13	29.3	2400	2000	0000	MTO
	Cut Diamond®	450 x 305 x 150 (Nth QLD Only)	15	30.96	32.3	2400mm	3000mm	8000mm	MT0
	Versawall® Standard Unit	400 x 215 x 200	12.5	46.5	21.5				NSW
THE STATE OF THE S	Versawall® Capping Unit	300 x 250 x 60	3.3L/m	104	9.6	800mm	1400mm	N/A	NTH QLD STH QLD VIC SA
	Versawall® Corner Unit	390 x 200 x 200	-	46.5	21.5				UA
	Versastone® Standard Unit	400 x 200 x 190	12.5	65	15.27				NSW
	Versastone® Capping Unit	390 x 40 x 190	2.5L/m	142	7.00	600mm			NTH QLD STH QLD VIC SA
	Versastone® Corner Unit	390 x 200 x 190	-	65	15.38				
	Versaloc ®								150/200 Series NSW
	150 Series	400 x 200 x 150	12.5	68.97	14.5				NTH QLD STH QLD VIC
	200 Series	400 x 200 x 190	12.5	64.10	15.6	600mm	N/A	N/A	SA
	300 Series	400 x 200 x 290	12.5	51.81	19.3				300 Series MTO
		2400 x 200 x 80	2.1	10.9	92	2800mm			
	Sleepers	2000 x 200 x 80	2.5	13.0	77	2600mm	N/A	N/A	NSW NTH QLD STH QLD
		1800 x 200 x 80	2.8	14.5	69	1800mm			

<sup>\*</sup>All products available nationally as Made to Order (MTO), minimum quantities, lead times and freight applies
For information regarding the maximum height this product can be built to, please refer to the Segmental Retaining Wall Brochures.







BRICKS BESSER® BLOCKS PAVERS RETAINING WALLS

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.

For all technical enquiries please email masonrytech@adbri.com.au and speak directly with our in-house technical and engineering teams.

All specifications and assumed properties in this document (including those in Section 1.0 Technical Parameters) must be present and achieved on the site. Retaining walls must be installed in accordance with the instructions and requirements in this document and the directions of suitably qualified and experienced professionals. The information in this brochure is to be used only with the specific Adbri Masonry products shown.

### **Contact Us**







adbrimasonry.com.au ( 1300 365 565 enquiries@adbri.com.au

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

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.

Civil and Industrial Masonry

March 2022

ABMXXXX

Adbri Masonry Pty Ltd ABN: 31 009 687 521

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