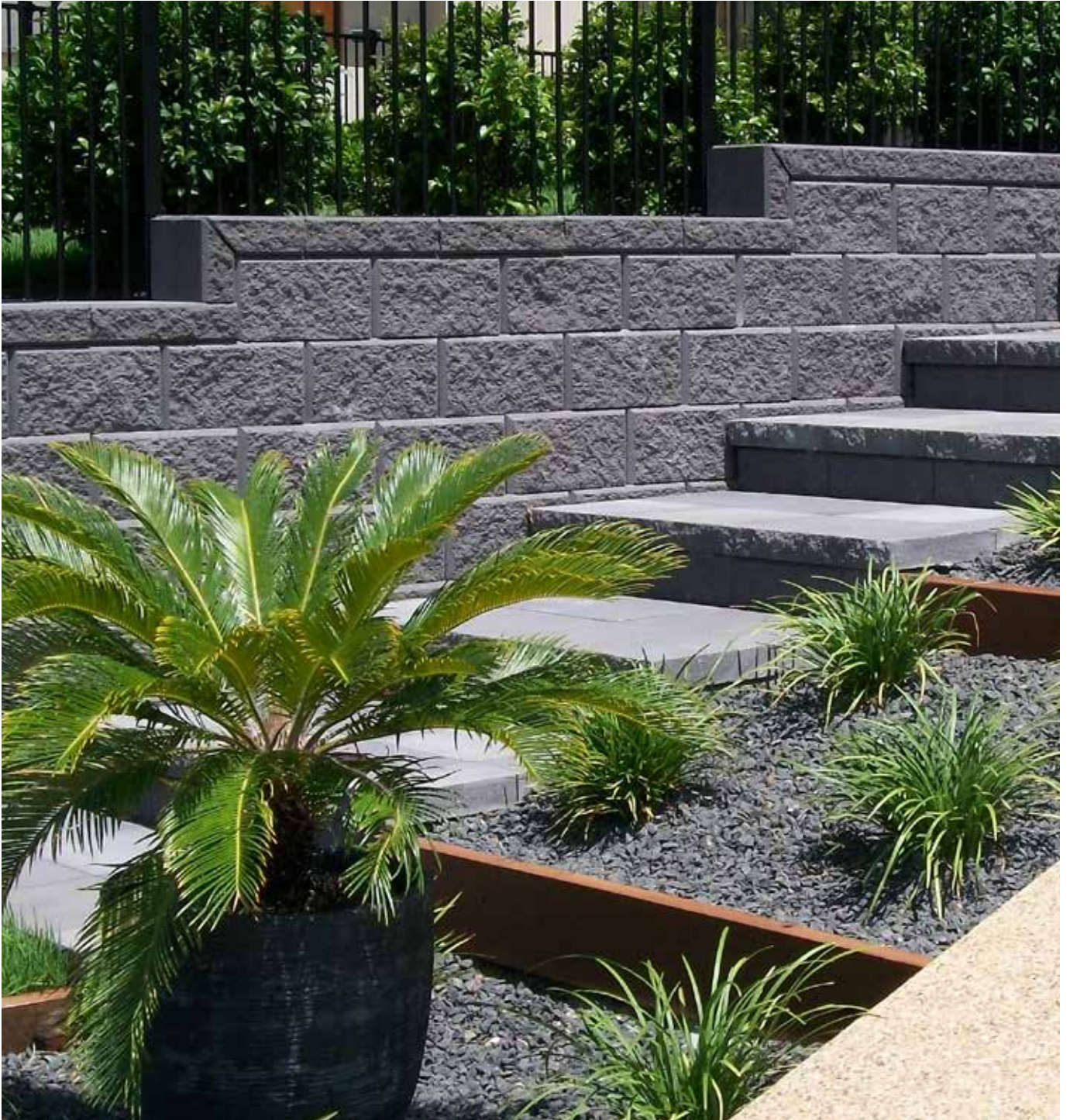


RETAINING WALLS

style and function





BEAUTIFUL PRODUCTS

with enduring style

Our range of coloured, standard and premium masonry have set a new standard in quality and style for the versatile concrete block.

By adding oxides and coloured sands to our mix of raw materials, we produce blocks with contemporary colours, textures and appeal. Ideal for a range of projects from a modern beach residence to impressive commercial projects, Austral Masonry has an array of products to suit your style.

Austral Masonry blends fine sand, cement, aggregate and quality colouring agents to produce unique coloured blocks. Having long been the workhorse of the construction industry, our products are frequently specified in cutting- edge residential and commercial designs due to their strength and versatility.

Part of the Brickworks Building Products Group, one of Australia's largest and most innovative building product manufacturers, Austral Masonry is part of a group of manufacturers which includes other industry leading brands such as Austral Bricks, Bristle Roofing, Austral Precast and Auswest Timber.

CONTENTS

style and function

03 *Austral Masonry Landscaping Products*

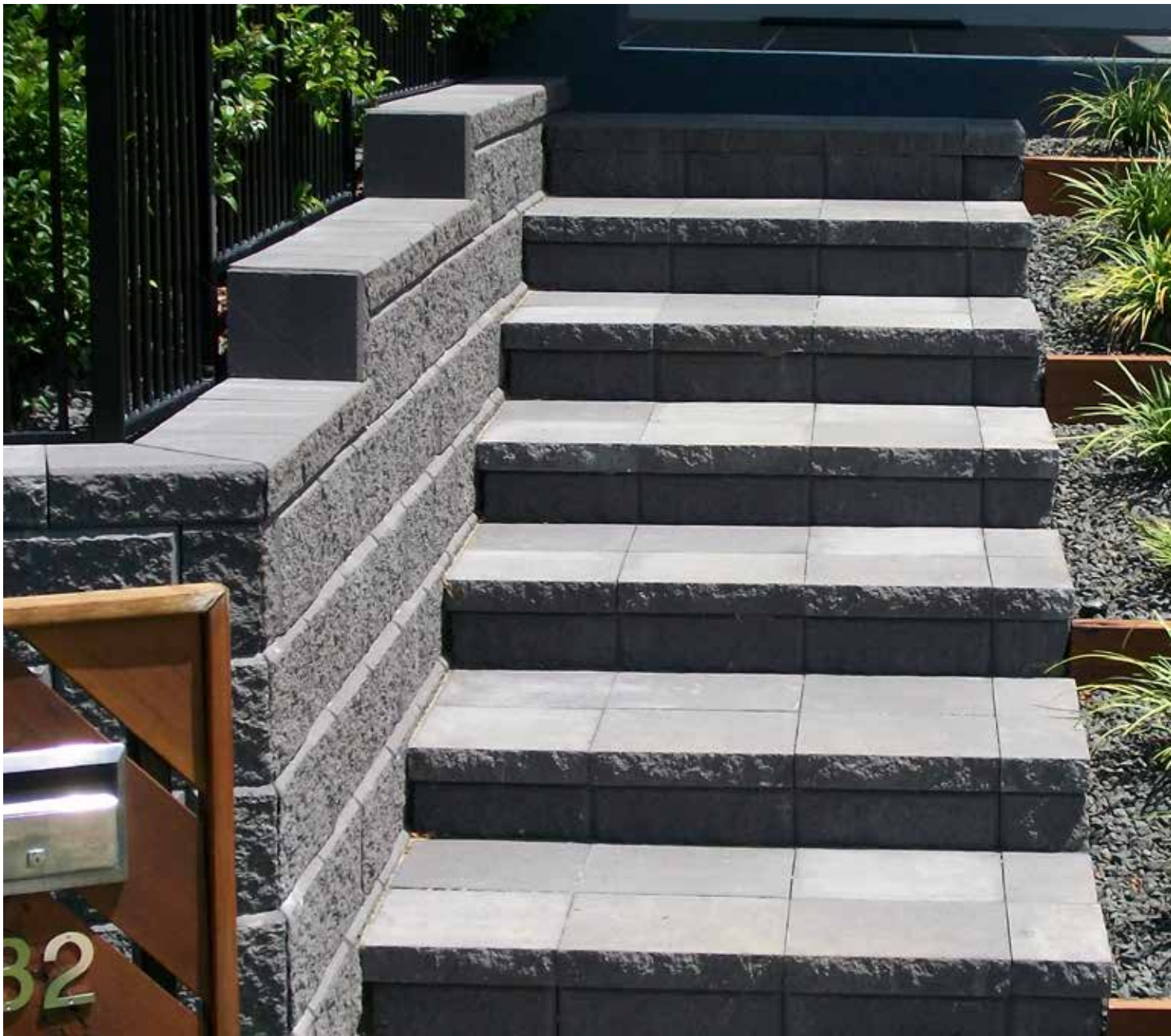
RETAINING WALL RANGES

06 *Heron*
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Cover Image: Heron Charcoal

Top right: Keystone Beachwood
Bottom: Heron Storm

*Inspired by
design*



HERON

rich natural colours

In hues of Storm, Dusk, and Beachwood, Heron is available in a colour perfect to suit your next landscaping project. Each product contains flecks of natural tones to create a realistic and appealing finish to each block. Structurally sound and perfect for the 'do it yourself' weekend warrior, the Heron Retaining Wall Blocks require no mortar, and are virtually maintenance free.

APPLICATIONS

Maximum wall height: 1000mm*

(3m when engineered)

Straight walls

Curved walls

Corners

Steps

Min Radius: Approx 800mm

*Please check with your local council in regards to wall height restrictions.



Beachwood



Standard Unit

Size: 390 L x 245 W x 198 H mm
Weight (each): 24 kg
Face area: 13 units per m²



Dusk



Corner Block

Size: 160 L x 360 W x 198 H mm
Weight (each): 20 kg
Available in right and left



Storm



Capping Unit

Size: 190 L x 245 W x 90 H mm
Weight (each): 9 kg
5.13 per lineal metre

MORETON

accentuate your outdoor area

Moreton Retaining Wall Blocks offer you a wealth of naturally inspired colours, as well as the design flexibility to combine different colours and textures in various ways to create particular desired effects.

APPLICATIONS

Maximum wall height. 800mm*

Straight walls

Curved walls

Corners

Steps

Min Radius. Approx 1500mm

*Please check with your local council in regards to wall height restrictions.



Beachwood



Dusk



Storm



Standard Unit

Size: 390 L x 200 W x 200 H mm
Weight (each): 18.5 kg
Face area: 13 units per m²



Capping Block

Size: 390 L x 200 W x 200 H mm
Weight (each): 22 kg
Blocks per lineal metre: 2.56



DAINTREE

Simple and yet distinctive

The simplistic design of this unit is intended to offer flexibility in application from long winding garden edges to corners with sharp curves with minimal cutting required.

Daintree is the ideal solution to add style to your landscaping project with the greatest of ease.

Applications

Maximum wall height: 1000 mm*

Straight walls

Curved walls

Steps

Min Radius. Approx 670mm

Min Circle. 18 blocks

*Please check with your local council in regards to wall height restrictions.



Beachwood



Dusk



Storm



Standard Unit

Size: 295L x 203W x 125H mm

Weight (each): 13kg

Face Area: 27.1 units per m²



KEYSTONE

Engineered perfection

The Keystone retaining wall system is robust and strong, and available in standard and flushface finishes. This product is ideal for both straight and curved walls and features a patented interlocking pin connecting system that is best suited for engineered walls up to 15m in height.

Applications

**Maximum wall height: 800 mm*
(15 m when engineered)**

Straight walls

Curved walls

Corners

Steps

*When using interlocking pins in the front pin holes to secure units.

Please check with your local council in regards to wall height restrictions.



Beachwood*



Storm



Standard Unit

Size: 455 L x 315 W x 200 H mm
 Weight (each): 38 kg
 Face area: 11 units per m²



Flushface Unit

Size: 455 L x 315 W x 200 H mm
 Weight (each): 41 kg
 Face area: 11 units per m²



Capping Unit

Size: 455 L x 310 W x 100 H mm
 Weight (each): 20 kg
 2.62 per lineal metre

*Made to order. Minimum order quantities apply.

HOW TO

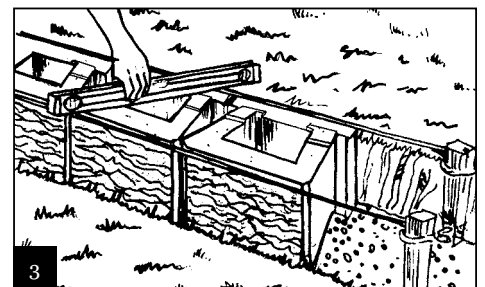
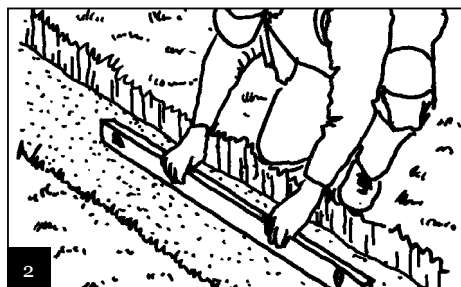
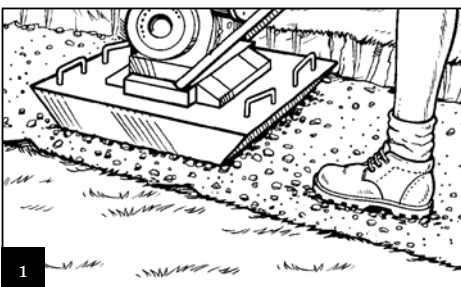
build retaining walls

Austral Masonry retaining wall blocks are an ideal choice for retaining walls in gardens, other residential applications and commercial projects. The interlocking and dry stacked nature of these, makes them easy to install for the “Do It Yourself” landscaper. No matter what the project, the result is always an attractive and low maintenance retaining wall. The flexibility of the system provides tremendous scope, from edging to terraces, straight walls to curves.

Note: Please consult with regulating council for local design requirements prior to the commencement of any retaining wall. Councils may request walls over 0.5m in height and / or where a surcharge exists (e.g. driveway, house, fence or other structure) be designed and certified by a suitably qualified consulting engineer.

Your Checklist

- | | | | |
|--------------------------|-----------------|--------------------------|---------------------------------------|
| <input type="checkbox"/> | String line | <input type="checkbox"/> | Agriculture Drain Pipe |
| <input type="checkbox"/> | Tape measure | <input type="checkbox"/> | Pegs or stakes |
| <input type="checkbox"/> | Walling units | <input type="checkbox"/> | Broom |
| <input type="checkbox"/> | Compaction Tool | <input type="checkbox"/> | Gloves & eye protection |
| <input type="checkbox"/> | Shovel | <input type="checkbox"/> | Mitre saw (to cut blocks if required) |
| <input type="checkbox"/> | Spirit level | <input type="checkbox"/> | 10-20mm Crushed stone |
| <input type="checkbox"/> | Wheel barrow | <input type="checkbox"/> | Crushed rock (for base) |



Step 1: Permits

Check with your local council to ensure all local Building Codes are complied with.

Step 2: Foundation

The foundation material shall be compacted by several passes of a mechanical plate vibrator. Where there are significant variations of foundation material or compaction, soft spots, or where there is ponding of ground water, the material shall be removed, replaced and compacted in layers not exceeding 150mm. Trenches shall be dewatered and cleaned prior to construction, such that no softened or loosened material remains.

Step 3: Bearing Pad

The facing shall be built on a bearing pad, not less than 150mm thick and 300 to 600mm wide, consisting of one of the following options:

- Compacted road base
- Compacted crushed rock, well-graded and of low plasticity (without clay content), compacted by a plate vibrator;
- Cement-stabilized crushed rock, with an additional 5% by mass of cement thoroughly mixed, moistened and compacted by a plate vibrator; or
- Lean-mix concrete with a compressive strength of not less than 15 MPa.

Step 4: First Course

Spread 25mm of crusher dust with an additional 5% by mass of cement over the compacted base. The first course is now bedded into the crusher dust. The use of a level and string line is recommended to ensure the first course is laid correctly. Ensure each block is also well filled with free-draining material (eg. crushed rock aggregate / blue metal). For walls up to 1 metre high, make sure at least 100mm of the first-course blocks are buried below the finished ground level. Allow 200mm for walls over 1 metre high and up to 3 metres high. These walls will need to be engineered.

Step 5: Drainage and Back Fill

Place 100mm diameter agricultural pipe with geotextile sock behind the wall, with a 1 in 100 fall. Backfill behind the courses of blocks to a width of 300mm using 10-20mm free draining material (eg. crushed rock aggregate / blue metal). Ensure each block is also well filled with free-draining material.

Backfill behind the drainage layer with selected backfill material in a maximum of 200mm layers. Compaction rate of 95% must be achieved (use only hand operated plate compactors within 1 metre from the back of the wall). Do not use expansive clays to backfill. Be careful not to mechanically compact too close to the wall.

Step 6: Laying Additional Courses

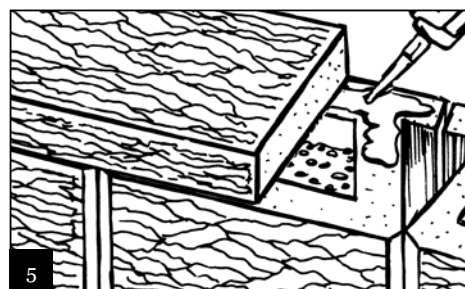
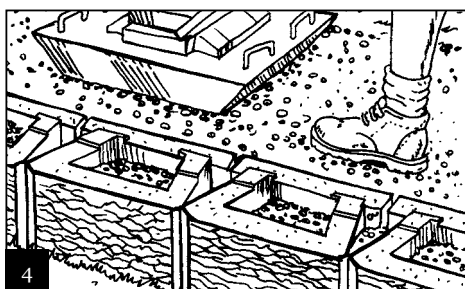
Clean any debris from the top of the wall to ensure the next block sits perfectly. Ensure each block is filled with free draining material, and place next course on top. Place the drainage material behind the blocks to 300mm. Stack units, placing drainage aggregate and compact backfill for each block layer until the wall is complete.

Step 7: Capping Units

Once backfilling and cleaning is completed as per Step 5 and Step 6 fix the purpose made Capping Blocks with cement based flexible adhesive.

Step 8: Maximum Wall Height

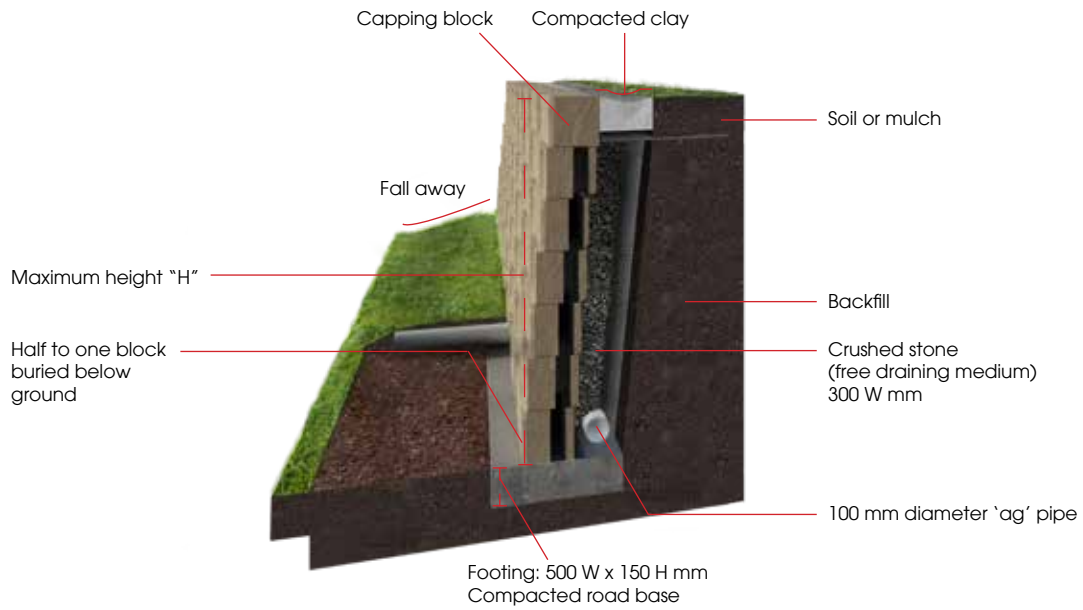
This information should be viewed as a guide only. The particular circumstances of retaining wall projects vary significantly in ways that often dictate the use of particular materials and techniques to address challenges presented by those circumstances. Austral Masonry recommends you to ensure that you obtain appropriate professional advice tailored to your circumstances before commencing retaining wall projects.



RETAINING WALL

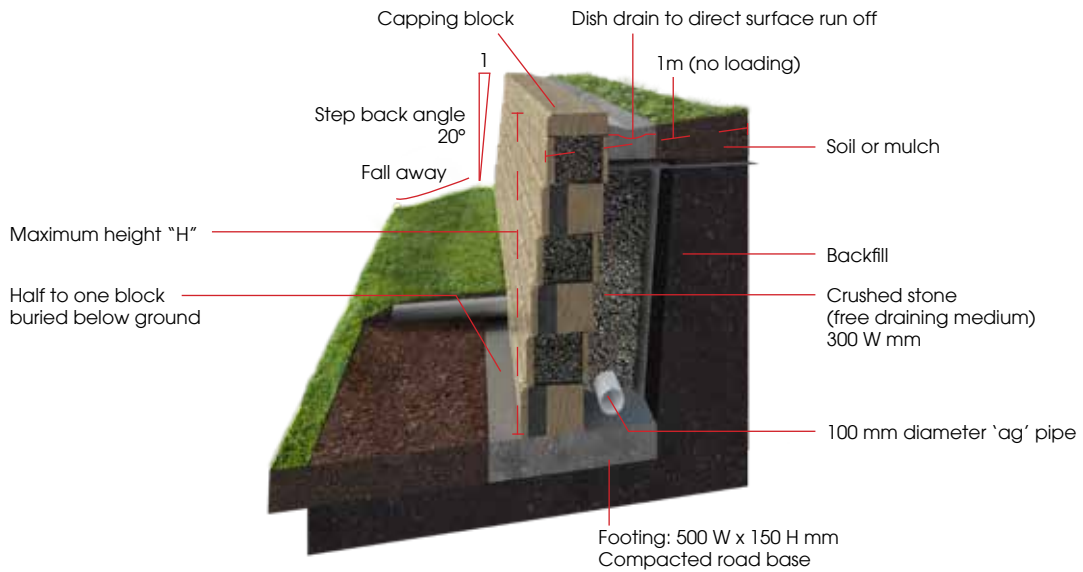
cross sections

Moreton



Please Note: Backfill should be no higher than the top of the retaining wall.

Heron

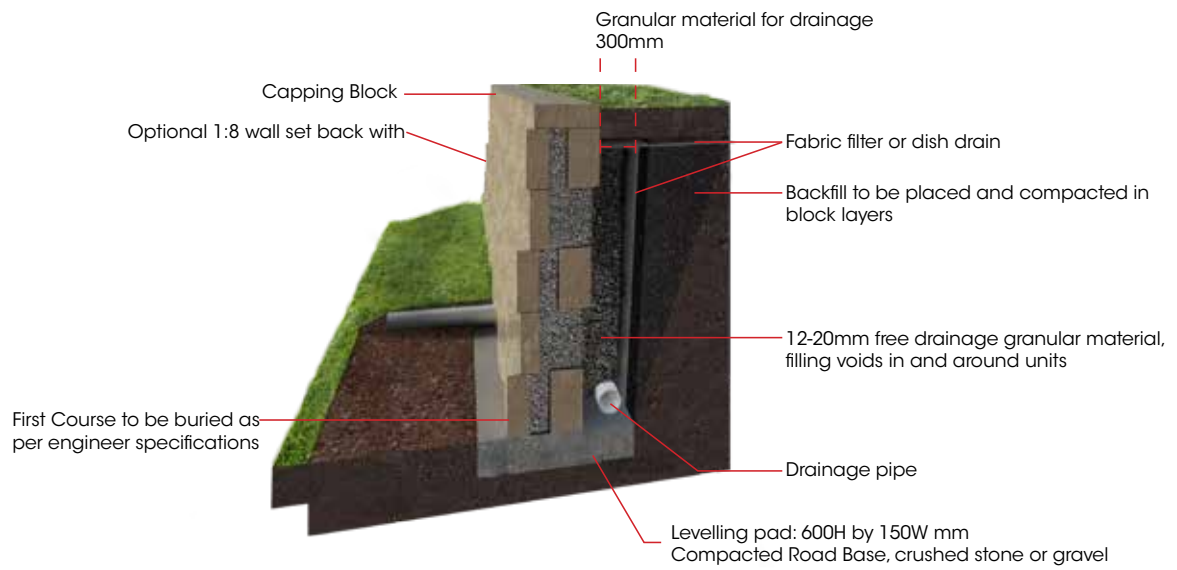


* Heron and Hayman can be built up to 3m when designed by a suitably qualified engineer and combined with soil reinforcement or no fines concrete. Contact your local Austral Masonry representative for more information.

RETAINING WALL

cross sections






Keystone






* Keystone can be built up to 15m when designed by a suitably qualified engineer and combined with soil reinforcement or no fines concrete. Contact your local Austral Masonry representative for more information.

RETAINING WALL

information

Product	Range	Description	Max Wall Height	Size	Weight	Coverage	Applications
	Heron	Standard Unit	800mm*	390L x 245W x 198H	21.5kg	13 Blocks per m ²	Curved Walls, Straight Walls, Corners, Steps
	Heron	Corner Unit	800mm*	160L x 360W x 198H	20kg	Available in left or right	Curved Walls, Straight Walls, Corners, Steps
	Heron	Capping Unit	800mm*	190L x 245W x 75H	9kg	5.13 Blocks per lineal metre	Curved Walls, Straight Walls, Corners, Steps
	Moreton	Standard Unit	800mm*	390L x 200W x 200H	12.8kg	19 Blocks per m ²	Curved Walls, Straight Walls, Steps
	Moreton	Capping Unit	800mm*	390L x 200W x 200H	13kg	-	Curved Walls, Straight Walls, Steps

Product	Range	Description	Max Wall Height [^]	Size	Weight	Coverage	Applications
	Keystone	Standard Unit	800mm**	455L x 315W x 200H	38kg	11 Blocks per m ²	Curved Walls, Straight Walls, Corners, Steps
	Keystone	Flushface Unit	-	455L x 315W x 200H	41kg	11 Blocks per m ²	Corners
	Keystone	Capping Unit	-	455L x 310W x 100H	30.8kg	2.62 per lineal metre	Curved Walls, Straight Walls, Corners

Maximum wall heights in good soils (gravels, sandy gravels, crushed sandstone).

Please check with your local council in regards to wall height restrictions.

*Heron can be built up to 3m when designed by a suitably qualified engineer and combined with soil reinforcement or No Fines concrete.

**Max wall height noted applies when using interlocking pins in the front pin holes to secure units. Keystone can be built up to 12m high when designed by a qualified engineer and combined with soil reinforcement.

Please contact your Austral Masonry representative for more information.



STYLE AND FUNCTION

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Austral Masonry is part of the Brickworks Group

The product images shown in this brochure give a general indication of product colour for your preliminary selection. Austral Masonry recommends all customers see actual product samples at a selection centre prior to making final selections.

1. Stock colours. Colours other than stock colours are made to order. Contact your nearest Austral Masonry office for your area's stock colours. A surcharge applies to orders less than the set minimum quantity. **2. Colour and texture variation.** The supply of raw materials can vary over time. In addition, variation can occur between product types and production batches. **3.** We reserve the right to change the details in this publication without notice. **4.** For a full set of Terms & Conditions of Sale please contact your nearest Austral Masonry sales office. **5. Important Notice.** Please consult with your local council for design regulations prior to the construction of your wall. Councils in general require those walls over 0.5m in height and/or where there is loading such as a car or house near the wall be designed and certified by a suitably qualified engineer. **6. Max wall heights disclaimer.** The gravity wall heights are maximum heights calculated in accordance with CMAA MA-53 Appendix D guidelines and a qualified engineer should confirm the suitability of the product for each application. As such, due consideration must be given to but not limited to: Cohesion. Dry backfill, no ingress of any water into the soil behind the retaining wall. All retaining walls are designed for zero surcharge unless noted otherwise. These walls are intended for structure Classification A walls only as defined in AS4678 Earth Retaining Structures as being where failure would result in minimal damage and/or loss of access.