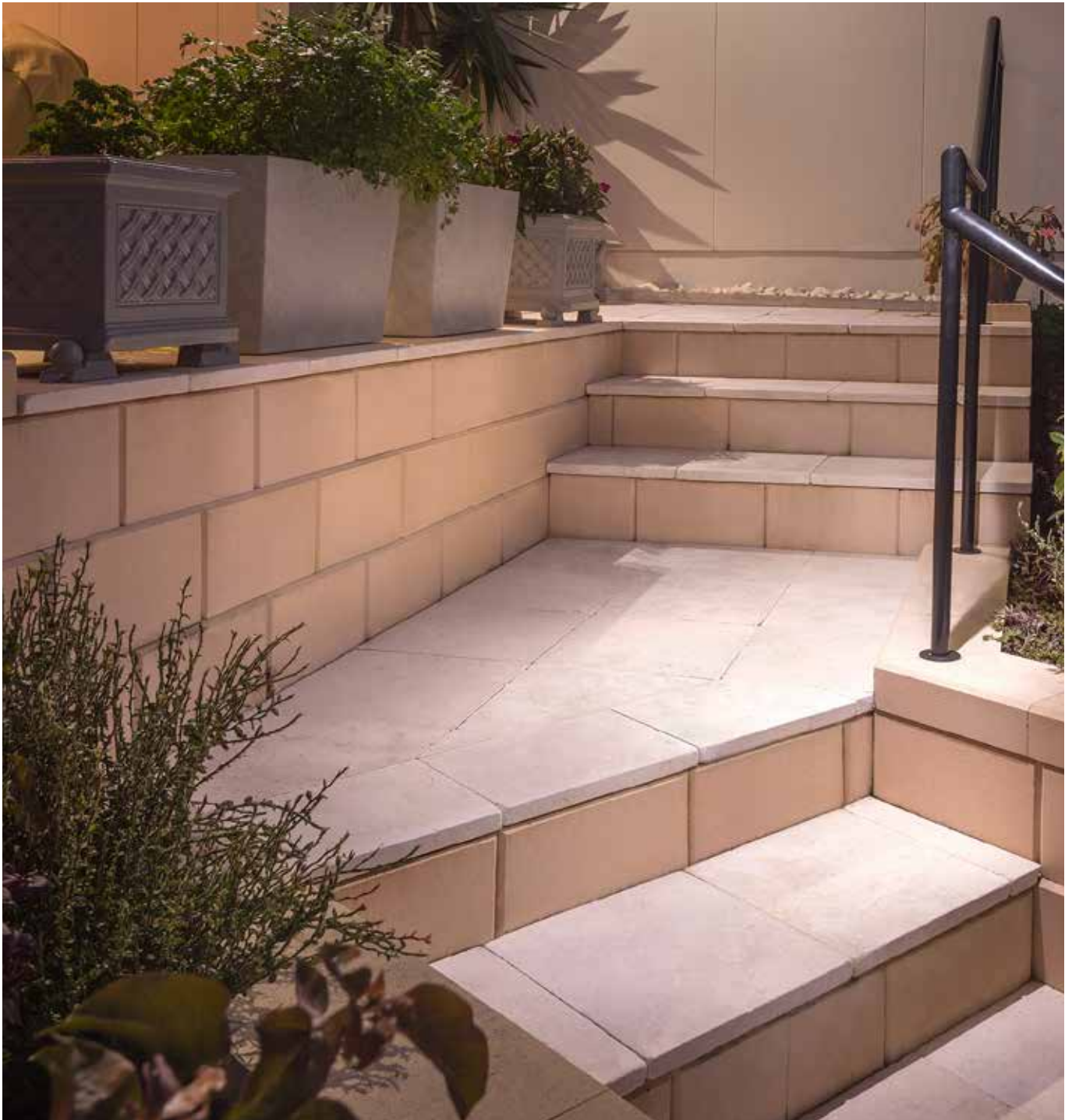


# RETAINING WALLS & PAVERS

*style and function*







# BEAUTIFUL PRODUCTS

*that last a lifetime*

Our range of standard and premium masonry, retaining walls, pavers and natural stone products have set a new standard in quality and style.

By adding oxides and coloured sands to our mix of raw materials, we produce products 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.

Our concrete retaining walls and pavers are created by blending fine sand, cement, aggregate and quality colouring agents to produce unique coloured blocks. Our range of stone products are quality controlled and only the finest samples offered for projects of distinction.

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 Timbers.

# CONTENTS

*style and function*

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## **RETAINING WALL RANGES**

|    |                           |
|----|---------------------------|
| 06 | <i>Hayman</i>             |
| 08 | <i>Heron</i>              |
| 10 | <i>Grandwall</i>          |
| 12 | <i>Fitzroy</i>            |
| 14 | <i>Daydream</i>           |
| 16 | <i>Keystone</i>           |
| 18 | <i>Pioneer Smooth</i>     |
| 20 | <i>Pioneer Timberlook</i> |
| 22 | <i>Pioneer Sandstone</i>  |

## **PAVER RANGES**

|    |                      |
|----|----------------------|
| 24 | <i>Textura Slate</i> |
| 25 | <i>Harbourpave</i>   |

## **PRODUCT INFORMATION**

|    |  |
|----|--|
| 26 | <i>How to Build Block Retaining Walls</i>            |
| 28 | <i>How to Build Concrete Sleeper Retaining Walls</i> |
| 30 | <i>Retaining Wall Information</i>                    |
| 32 | <i>Retaining Walls Cross Sections</i>                |
| 34 | <i>Concrete Paver Information</i>                    |
| 35 | <i>Maintenance of Pavers</i>                         |
| 36 | <i>How to Lay Pavers</i>                             |
| 40 | <i>Home of Inspiration</i>                           |
| 42 | <i>We are Brickworks</i>                             |

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*style and function*

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*inspired  
by design*

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*Cover Image: Hayman Limestone*

*Top right: Heron Limestone*

*Bottom right: Heron Charcoal*





# HAYMAN

*contemporary colours & smooth finish*

Hayman retaining wall blocks offer a smooth finish with options to suit contemporary colour schemes. Their simple design, mortarless interlock, and manageable weight means you can lay them yourself and enjoy a retaining wall which is virtually maintenance free.

## **APPLICATIONS**

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

Straight walls

Curved walls

Corners

Steps

*\*Please check with your local council in regards to engineering requirements.*



Limestone



Charcoal



**Standard Unit**  
Size: 390 L x 245 W x 198 H mm  
Weight (each): 24 kg  
Face area: 13 units per m<sup>2</sup>



**Universal Corner**  
Size: 160 L x 360 W x 198 H mm  
Weight (each): 17.2 kg



**Capping Unit**  
Size: 390 L x 245 W x 90 H mm  
Weight (each): 16 kg  
2.56 per lineal metre





# HERON

*rich natural colours*

Heron retaining wall blocks have a colour and finish for all landscaping projects. Structurally sound and perfect for the 'do it yourself' weekend warrior, Heron blocks require no mortar and are virtually maintenance free.

## **APPLICATIONS**

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

Straight walls

Curved walls

Corners

Steps

Min radius: Approx 1,200 mm

*\*Please check with your local council in regards to engineering requirements.*





Limestone



Charcoal



Sydney Blend



Sandstone



**Standard Unit**

Size: 390 L x 245 W x 198 H mm  
Weight (each): 24 kg  
Face area: 13 units per m<sup>2</sup>



**Corner Block**

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



**Capping Unit**

Size: 390 L x 245 W x 90 H mm  
Weight (each): 16 kg  
2.56 per lineal metre



**End Block**

Size: 160 L x 245 W x 198 H mm  
Weight (each): 18 kg



# GRANDWALL

*beautifully bold*

The bold texture and natural tones of Grandwall create a realistic and appealing finish to each block. Perfect for 'do it yourself' projects, these blocks are easy to install.

## **APPLICATIONS**

Maximum wall height: 810mm\*

Straight walls

Curved walls

Corners

Steps

Min Radius: Approx 1200mm

*\*Please check with your local council in regards to engineering requirements.*





**Wall Block**  
Size: 390L x 245W x 162H mm  
Weight (each): 17.5kg  
Blocks per m<sup>2</sup>: 1m<sup>2</sup> wall  
= 16 blocks



Sand



**Corner Block**  
Size: 340L x 140W x 162H mm  
Weight (each): 20kg  
Available in left or right



Charcoal



**Capping Block**  
Size: 195L x 245W x 65H mm  
Weight (each): 6kg  
Blocks per lineal metre: 5.13



# FITZROY

*easy to install*

Featuring a rustic textured finish with options to suit contemporary colour schemes, the Fitzroy range uses a mortarless interlock and is easy to install.

## **APPLICATIONS**

Maximum wall height: 540mm\*  
(1.6m when engineered)

Straight walls

Curved walls

Corners

Steps

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



style and function



Charcoal



Outback



Claypan



Sandstone



Beach



**Fitzroy Standard Unit**

Size: 375 L x 210 W x 180 H mm

Weight (each): 19.23 kg

Face area: 14 units per m<sup>2</sup>





# DAYDREAM

*bold textured finish*

Daydream retaining wall blocks offer a split face finish with options to suit contemporary colour schemes. Their simple design, mortarless interlock, and manageable weight means you can lay them yourself and enjoy a retaining wall which is virtually maintenance free.

## **APPLICATIONS**

Maximum wall height: 600mm\*  
(1.5m when engineered)

Straight walls

Curved walls

Corners

Steps

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



style and function



Charcoal



Outback



Claypan



Sandstone



Beach



**Daydream Standard Unit**  
Size: 295 L x 203 W x 130 H mm  
Weight (each): 12.19 kg  
Face area: 25 units per m<sup>2</sup>



# KEYSTONE

*Engineered perfection*

The Keystone retaining wall system is robust and strong, with a choice of 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 engineering requirements.*





Dune



Charcoal



**Standard Unit**

Size: 457 L x 305 W x 203 H mm  
Weight (each): 34 kg  
Face area: 11 units per m<sup>2</sup>



**Flushface Unit**

Size: 457 L x 305 W x 203 H mm  
Weight (each): 38 kg  
Face area: 11 units per m<sup>2</sup>



**Capping Unit**

Size: 460 L x 305 W x 100 H mm  
Weight (each): 22 kg  
2.2 per lineal metre



**Flushface Straight Side Cap**

Size: 460 L x 305 W x 100 H mm  
Weight (each): 25 kg  
2.2 per lineal metre



**Corner Unit 90°**

Size: 460 L x 230 W x 200 H mm  
Weight (each): 36 kg

# PIONEER SMOOTH

*simple and understated*

Add a sleek, modern look to any landscape using Pioneer Smooth concrete sleepers. Manufactured using 40MPa concrete and reinforced with steel, Pioneer Smooth concrete sleepers are an economical option for a durable, low maintenance retaining wall.

## **APPLICATIONS**

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

Straight walls

Corners

Steps

*\*Please check with your local council in regards to engineering requirements.*



style and function



Charcoal



Grey



**Pioneer Smooth Unit**

Sizes:

1200 L x 200 H x 75 T mm

1530 L x 200 H x 75 T mm

2000 L x 200 H x 75 T mm

2400 L x 200 H x 75 T mm



# PIONEER TIMBERLOOK

*create a timber look*

By replicating the colours and textures of real timber, Pioneer Timberlook concrete sleepers are distinguished by their natural, yet timeless look.

Pioneer Timberlook is the ideal solution to create a stylish and cost effective retaining solution for your home.

## **APPLICATIONS**

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

Straight walls

Corners

Steps

*\*Please check with your local council in regards to engineering requirements.*





Ironbark



Gumtree



**Pioneer Timberlook Unit**

Sizes:

1580 L x 200 H x 75 T mm

2000 L x 200 H x 75 T mm



# PIONEER SANDSTONE

*sandstone block finish*

Pioneer Sandstone never goes out of style. Design an elegant, earthy look with the warm colours and textures found in Sandstone Effect concrete sleepers.

Featuring a block face pattern, and available in Natural or Graphite, Pioneer Sandstone concrete sleepers are manufactured using 40MPA concrete and reinforced with steel for strength and durability.

## APPLICATIONS

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

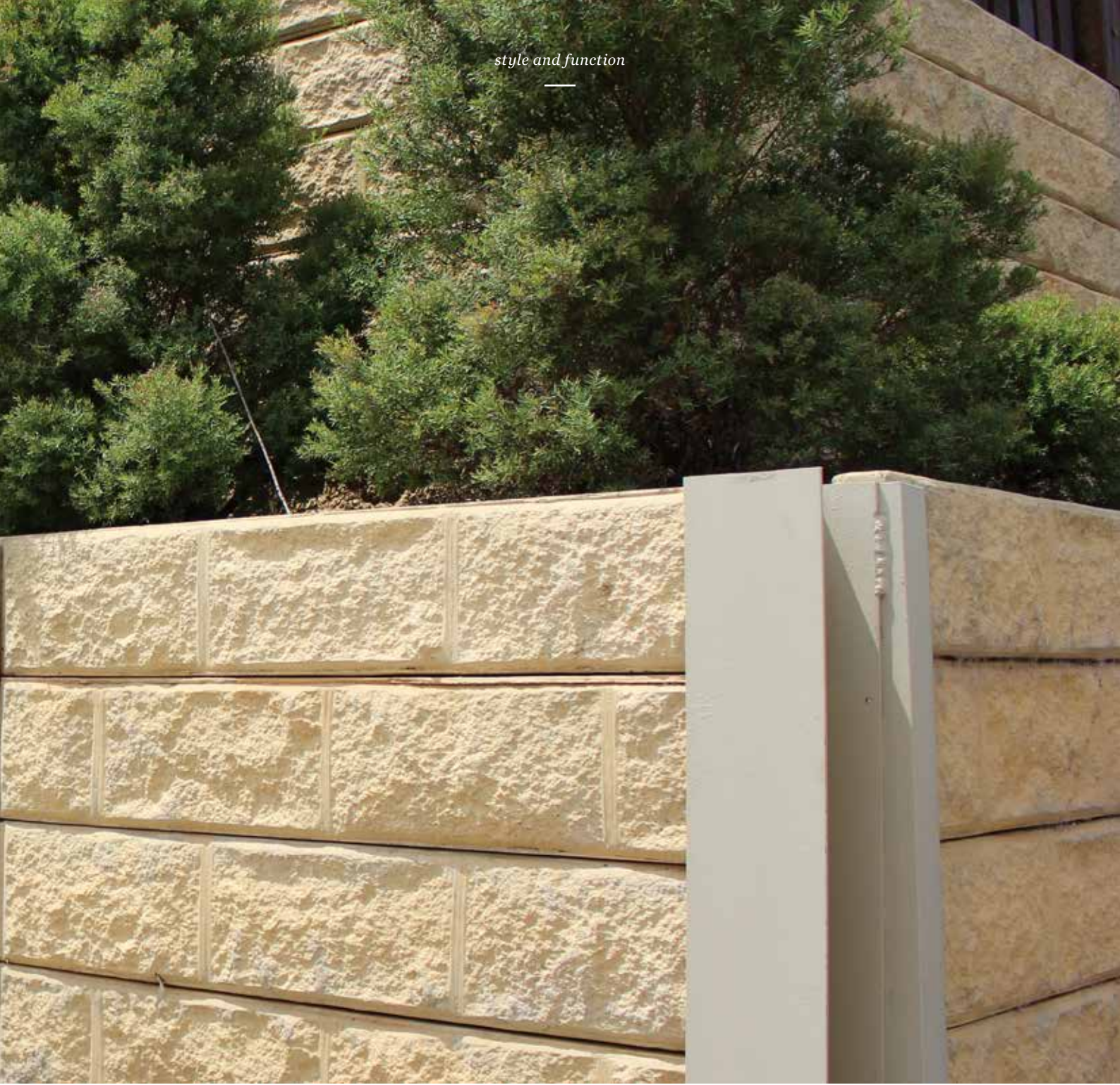
Straight walls

Corners

Steps

*\*Please check with your local council in regards to engineering requirements.*





Graphite



Natural



**Pioneer Sandstone Unit**

Sizes:

1580 L x 200 H x 75 T mm

2000 L x 200 H x 75 T mm



# TEXTURA SLATE

*subtle slate texture*



Textura Slate pavers feature a realistic and appealing rock finish with a neutral colour palette. Perfect for the 'do it yourself' project, these pavers are strong, durable, and are virtually maintenance free.

## APPLICATIONS

- Pools\*
- Paths
- Patios
- Courtyards

\* Check installation requirements with Austral Masonry.



Ivory



Steel



Gun Metal



**Standard Unit**  
Size: 400 L x 400 W x 40 H mm



**Bullnose Unit**  
Size: 400 L x 400 W x 40 H mm



style and function

# HARBOURPAVE

*lightweight and easy to lay*



Ideal for a range of 'do it yourself' applications, Harbourpave pavers are light, easy to use, and available in a variety of earthy colours.



Flame



Tan



Charcoal



Beach



**Standard Unit**

Size: 190L x 190W x 40H mm

Weight: 3kg

Units per m<sup>2</sup>: 27.5

**APPLICATIONS**

Pools\*

Paths

Patios

Courtyards

\* Check installation requirements with Austral Masonry.



# HOW TO

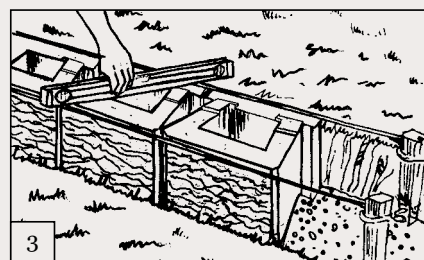
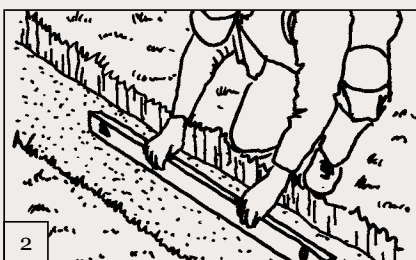
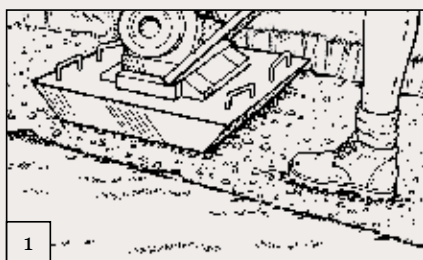
## *build segmental block retaining walls*

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 blocks, 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 0.8m 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 req'd) |
| <input type="checkbox"/> | Spirit level    | <input type="checkbox"/> | 10-20 mm 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 150 mm. Trenches shall be dewatered and cleaned prior to construction, such that no softened or loosened material remains.

**Step 3: Levelling Pad (footing)**

The facing shall be built on a levelling pad, not less than 150 mm thick and 300 to 600 mm 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**

Place the first course on the levelling pad and tap into place ensuring blocks are level, front to back and side to side (check with a spirit level). 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 200 mm 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 100 mm 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 300 mm using 10-20 mm 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**

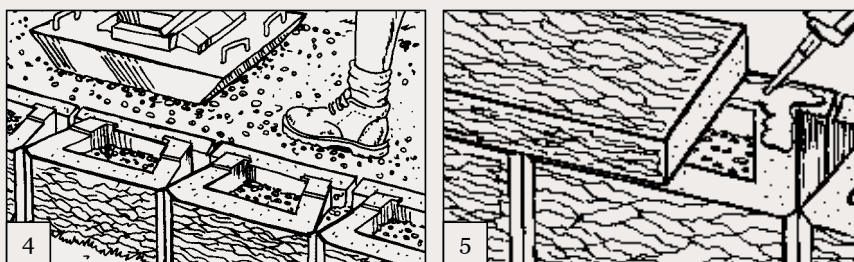
Clean any debris from the top of the wall to ensure the next block sits perfectly. Ensure each block is filled with free draining material, and place next course on top. Place the drainage material behind the blocks to 300 mm. Stack units, placing drainage aggregate and compact backfill for each block layer until the wall is complete. *For Heron and Hayman walls it is recommended that you break 20-30% of the back 'wings' off to allow backfill material to lock into the block wall. (when using no fines concrete)*

**Step 7: Capping Units**

Once backfilling and cleaning is completed as per Step 5 and Step 6 fix the purpose made Capping Blocks with a 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.





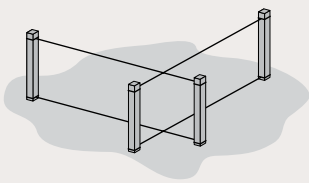
# HOW TO

## *build concrete sleeper retaining walls*



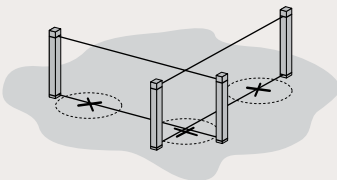
### 1. Prepare the Area

- Clear and level your site where you plan to build the retaining wall. Ensure you leave 300mm behind the retaining wall area for backfill.



### 2. Alignment

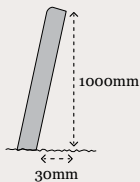
- Place a star piquet or peg at both ends of the proposed wall. Attach two string lines at each end of the wall, top and bottom, to keep your wall aligned.



### 3. Mark out Hole Positions

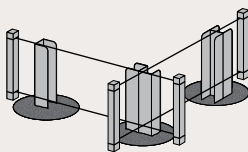
- Starting from one end of the wall, mark a cross on the ground at intervals with their centre being approximately 20mm more than the length of the sleeper.

**For example:** If you are using 1530mm sleepers the hole centres should be 1550mm apart – note, this will vary on the length of sleeper used.



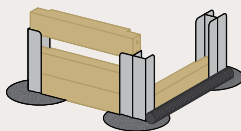
### 4. Auger Holes and Pour Concrete

- Auger holes as per your engineers specifications as approved by council.
- Pour concrete into holes, one at a time.
- Make the concrete stiff. If using readymix concrete, order 20/20, 80 slump.
- Set your post by lowering into ground until level with the top string lines.
- Ensure there is a minimum lean back of 30mm for every 1.0m in height.



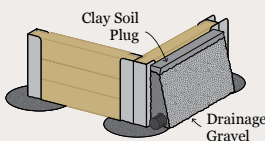
### 5. Checking Posts

- Use a spirit level to make sure all your posts are aligned with the string line and are perpendicular on the sides.
- It is also important to measure the remaining distance to the top of your steel posts, to ensure the sleepers finish flush with the top of the posts.
- If required, lay a concrete pad on both sides of the steel post.



### 6. Ag Pipe and Backfill

- Allow the concrete to cure for two to three days before you place your sleepers in. Place ag pipe at the base, then backfill with gravel to 200mm from the top.



### 7. Soil Plug

- A soil plug is then placed in, to fill the wall to the top.

\*Retaining walls must be designed to AS4678

\*Most councils require that any retaining walls over 0.8m in height from natural ground level are subject to building approval.

\* Any retaining wall that is less than 1.5m away from a building or other retaining wall also requires building approval.



# DESIGN

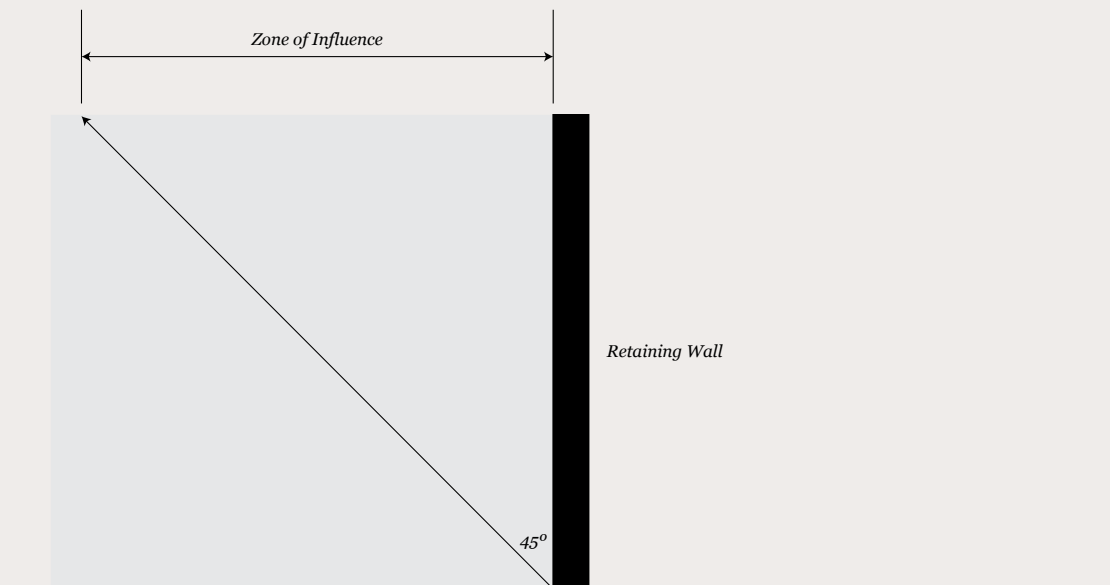
## *concrete sleeper walls for 5kPa walls*

| WALL HEIGHT | SLEEPER LENGTH (MAX.)          | POST SIZE (mm) | POST C/C SPACING | POST LENGTH |
|-------------|--------------------------------|----------------|------------------|-------------|
| 0.4m        | 2.00m                          | UC100          | 2020mm           | 1.15m       |
| 0.6m        | 2.00m                          | UC100          | 2020mm           | 1.15m       |
| 0.8m        | 2.00m                          | UC100          | 2020mm           | 1.55m       |
| 1.0m        | 2.00m                          | UC100          | 2020mm           | 1.95m       |
| 1.2m        | 2.00m                          | UC100          | 2020mm           | 2.35m       |
| 1.4m        | 1.53m Smooth                   | UC100          | 1550mm           | 2.75m       |
| 1.6m        | 1.53m Smooth                   | UC100          | 1550mm           | 3.15m       |
| 1.8m        | 1.53m Smooth                   | UC100          | 1550mm           | 3.55m       |
| 2.0m        | 1.53m Smooth                   | UC150          | 1550mm           | 3.95m       |
| 1.4m        | 1.58m Sandstone and Timberlook | UC100          | 1600mm           | 2.75m       |
| 1.6m        | 1.58m Sandstone and Timberlook | UC100          | 1600mm           | 3.15m       |
| 1.8m        | 1.58m Sandstone and Timberlook | UC100          | 1600mm           | 3.55m       |
| 2.0m        | 1.58m Sandstone and Timberlook | UC150          | 1600mm           | 3.95m       |

*Please note.* the above table does not allow for the additional loading of colorbond fences when they are clamped to the walls using fence brackets which will require additional design criteria to be considered.

### *Exclusion Zone*

There must be an exclusion zone behind the wall at an angle of 45 – no structure can be placed within that exclusion zone, Zone of influence = height of the wall. Backfill must be placed and compacted in layers to not exert pressure on the wall due to consolidation over time.



Global stability and tiered wall design is excluded and should be assessed by a qualified Geotechnical engineer.

*The following Australian Standards should be consulted when designing a concrete sleeper retaining wall system:*



# RETAINING WALL

## *information*

| Product   | Range              | Description      | Max Wall Height <sup>^</sup>   | Size  | Weight                  | Coverage  | Applications                                       |
|---|--------------------|------------------|--------------------------------|---|-------------------------|---|--|
|    | Heron              | Standard Unit    | 800 mm*<br>3m with engineering | 390 L x 245 W x 198 H mm  | 24 kg                   | 13 Blocks per m <sup>2</sup>  | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|    | Heron              | Corner Block     | -                              | 160 L x 360 W x 198 H mm  | 20 kg                   | Available in left or right  | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|    | Heron              | End Block        | -                              | 160 L x 245 W x 198 H mm  | 18 kg                   | Available in left or right  | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|  | Heron              | Capping Unit     | -                              | 390 L x 245 W x 75 H mm   | 14 kg                   | 2.56 Blocks per lineal metre  | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|  | Hayman             | Standard Unit    | 800 mm*<br>3m with engineering | 390 L x 245 W x 198 H mm  | 24 kg                   | 13 Blocks per m <sup>2</sup>  | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|  | Hayman             | Universal Corner | -                              | 160 L x 360 W x 198 H mm  | 17.2 kg                 | Universal - can be used for left and right corners  | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|  | Hayman             | Capping Unit     | -                              | 390 L x 245 W x 90 H mm   | 16 kg                   | 2.56 Blocks per lineal metre  | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|  | Pioneer Smooth     | Standard Unit    | 800 mm*<br>3m with engineering | 1200 L x 200 H x 75T mm<br>1530 L x 200 H x 75T mm<br>2000 L x 200 H x 75T mm | 41 kg<br>53 kg<br>67 kg | 4.17 Units per m <sup>2</sup><br>3.27 Units per m <sup>2</sup><br>2.50 Units per m <sup>2</sup> | Straight Walls,<br>Corners, Steps                  |
|  | Pioneer Timberlook | Standard Unit    | 800 mm*<br>3m with engineering | 1580 L x 200 H x 75T mm<br>2000 L x 200 H x 75T mm                            | 51 kg<br>66 kg          | 3.16 Units per m <sup>2</sup><br>2.50 Units per m <sup>2</sup>                                  | Straight Walls,<br>Corners, Steps                  |
|  | Pioneer Sandstone  | Standard Unit    | 800 mm*<br>3m with engineering | 1580 L x 200 H x 75T mm<br>2000 L x 200 H x 75T mm                            | 58 kg<br>72 kg          | 3.16 Units per m <sup>2</sup><br>2.50 Units per m <sup>2</sup>                                  | Straight Walls,<br>Corners, Steps                  |

<sup>^</sup>Maximum wall heights in good soils (gravels, sandy gravels, crushed sandstone).

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

\*\* Keystone can be built up to 1m using interlocking pins in the front pin holes to secure units or 12m high when designed by a qualified engineer and combined with soil reinforcement. Please contact your Austral Masonry representative for more information.

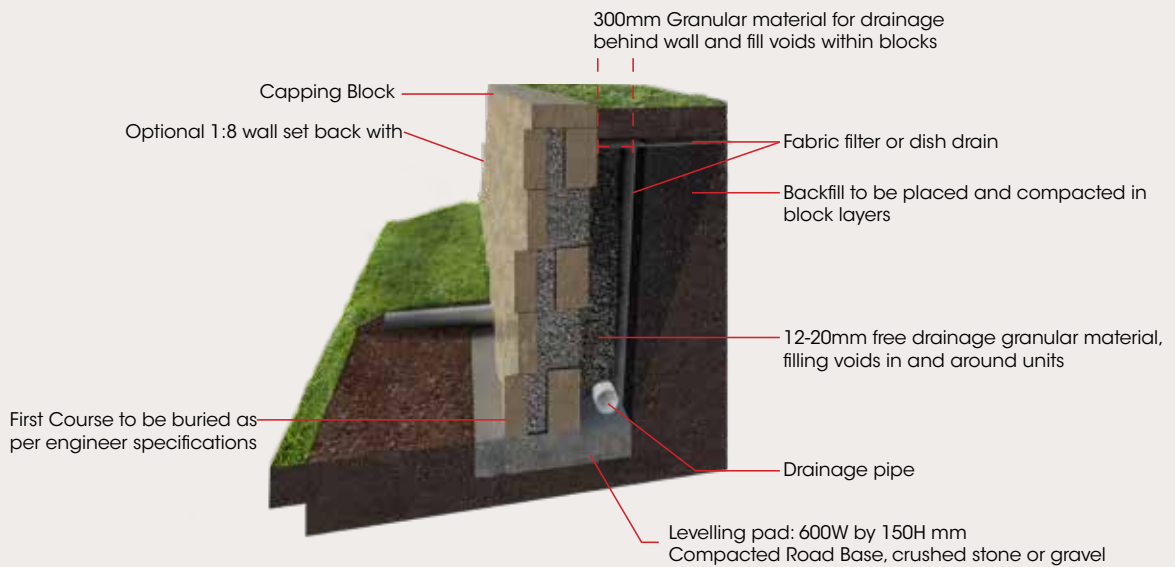
| Product   | Range     | Description                       | Max Wall Height <sup>^</sup> | Size               | Weight  | Coverage                     | Applications                                       |
|---|-----------|-----------------------------------|------------------------------|--------------------|---------|------------------------------|--|
|    | Keystone  | Standard Unit                     | 1000mm**                     | 457L x 305W x 203H | 34kg    | 11 Blocks per m <sup>2</sup> | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|    | Keystone  | Flushface Unit                    | -                            | 457L x 305W x 203H | 38kg    | 11 Blocks per m <sup>2</sup> | Corners  |
|    | Keystone  | Capping Unit                      | -                            | 460L x 305W x 100H | 22kg    | 2.2 per lineal metre         | Curved Walls,<br>Straight Walls,<br>Corners        |
|  | Keystone  | Flushface<br>Straight Side<br>Cap | -                            | 460L x 305W x 100H | 25kg    | 2.2 per lineal metre         | Curved Walls,<br>Straight Walls,<br>Corners        |
|  | Keystone  | Corner Unit 90°                   | -                            | 460L x 230W x 200H | 36kg    | N/A                          | Curved Walls,<br>Straight Walls,<br>Corners        |
|  | Grandwall | Wall Block                        | 810mm*                       | 390L x 245W x 162H | 17.5kg  | 16 Blocks per m <sup>2</sup> | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|  | Grandwall | Corner Block                      | -                            | 340L x 140W x 162H | 20kg    | N/A                          | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|  | Grandwall | Capping Unit                      | -                            | 195L x 245W x 65H  | 6kg     | 5.13 Blocks per lineal metre | Curved Walls,<br>Straight Walls,<br>Corners, Steps |
|  | Fitzroy   | Wall Block                        | 540mm*                       | 375L x 210W x 180H | 19.23kg | 14 Blocks per m <sup>2</sup> | Curved Walls,<br>Straight Walls,<br>Steps          |
|  | Daydream  | Wall Block                        | 650mm*                       | 295L x 203W x 130H | 12.19kg | 25 Blocks per m <sup>2</sup> | Curved Walls,<br>Straight Walls,<br>Steps          |



# RETAINING WALL

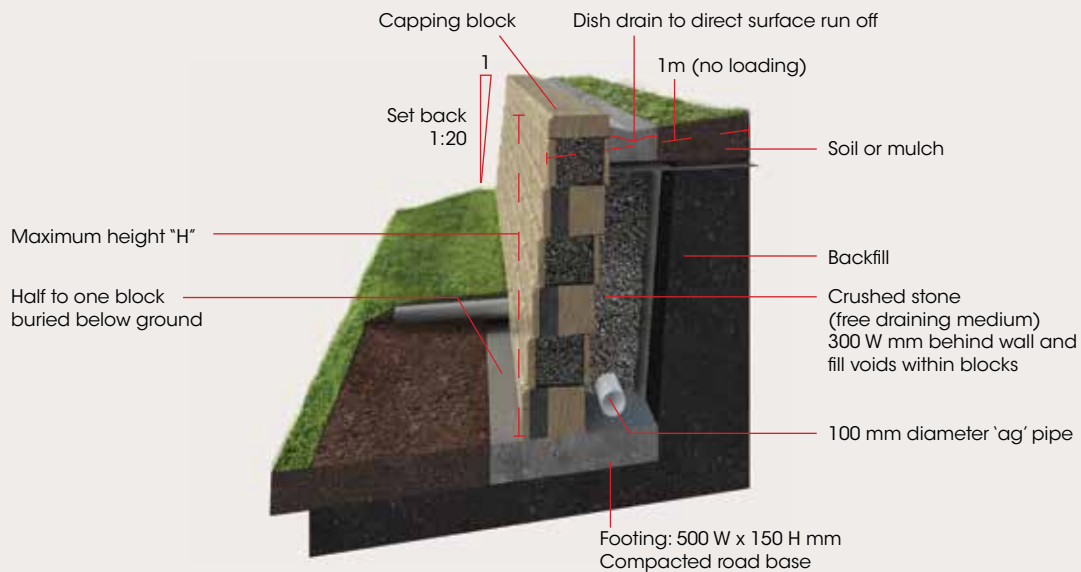
## *cross sections*

### *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.

### *Heron / Hayman*



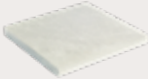

\* Heron and Hayman can be built up to 3m when designed by a suitably qualified engineer and combined with soil reinforcement or no fines concrete. Contact your local Austral Masonry representative for more information.





# PAVER

## information

| Product   | Range         | Description   | Size                    | Coverage                      | Slip Rating    | Applications                               |
|---|---------------|---------------|-------------------------|-------------------------------|----------------|--|
|  | Textura Slate | Standard Unit | 400 L x 400 W x 40 H mm | 6.25 Units per m <sup>2</sup> | Gun Metal - P5 | Pools<br>Pedestrian                        |
|   |               | Bullnose Unit | 400 L x 400 W x 40 H mm | 6.25 Units per m <sup>2</sup> | Ivory - P5     | Driveways<br>Indoor                        |
|  | Harbourpave   | Standard Unit | 190 L x 190 W x 40 H mm | 27.5 Units per m <sup>2</sup> | N/A            | Pools<br>Pedestrian<br>Driveways<br>Indoor |

**Slip Rating****Applications according to Australian Standard HB198:2014****P5**

External ramps steeper than 1:14 | Loading docks | Commercial kitchens | Swimming pool ramps and stairs

**P4**External colonnade and walkway | Pedestrian crossings, driveways | Verandahs, Balconies | Serving areas behind bars, cold stores  
| Swimming pool surrounds | Communal shower rooms**P1**

Entries &amp; access areas - public buildings - DRY | Supermarket aisles (except fresh food)

# MAINTENANCE

## *of pavers*

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Maintaining your paved area will guarantee that it holds its good looks and natural appeal forever.

All paved areas are subject to spillages and a build up of dirt and grime over time. By following certain guidelines and cleaning procedures, maintaining the look of your Austral Masonry concrete pavers need not be a problem.

### *Efflorescence*

Efflorescence is a powdery deposit of salts (usually white or yellow) and is often found on the surface of pavers after a period of rain. Efflorescence appears due to external sources from surrounding materials. For example, salty soils or fertilisers draw up through the pavers by the drying effect.

Prior to laying your pavers, make sure a clean bed of sand is the foundation of the paving – this will form a barrier to salts migrating to the pavers from below. Efflorescence can be removed by using either a dry brushing technique or wiping with a damp cloth making sure the salts are carried away from the pavers.

### *Organic Growths – Fungus, Mould and Moss*

Porous masonry may provide an environment for organic growth when it is continuously moist, especially in light but shady conditions where there are plenty of nutrients available.

Clean off the growth as much as possible with a dry bristle brush. Organic growths should be treated with liquid chlorine, or common household chemicals such as Exitmould and WhiteKing or a proprietary weed killer. The solution can be left for a short time and then brushed off with hot water and detergent. Repeat as necessary.

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# HOW TO

## *lay pavers on flexible base (residential pedestrian applications only)*

### *Materials required*

- Pavers
- Gravel Roadbase (1m<sup>3</sup> covers 10m<sup>2</sup> at a compacted depth of 100mm)
- Bedding Sand (1m<sup>3</sup> will cover 30m<sup>2</sup> at a depth of 30mm)
- String lines, tape measure and pegs
- Spirit level
- Two Screed Rails – two flat steel bars (Approx. 3m x 50mm x 2mm)
- 2-3m long concreter's screed
- Broom, rake and shovel
- Plate vibrator compactor
- Edge restraints (concrete, cement or timber)
- Cutting Equipment – Paver Splitter/ Masonry Brick Saw



# HOW TO

## *lay pavers on flexible base (residential pedestrian applications only)*

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*For Pedestrian only (no vehicles) eg patios, courtyards and paths.*

*It is recommended to use a qualified experienced trades person.*

### *1. Base Course*

The base course shall be gravel road base and be 75 to 100mm thick. The Base course shall be levelled within a tolerance of no more than 5mm from the base of the level in any direction. It shall be of an even thickness and adequate drainage precautions taken. It should be correctly compacted to suit the intended application. There should be no ponding on the surface of the base course as this may cause problems with the integrity of the paving application.

### *2. Bedding Sand*

Bedding Sand - cover the sub base with well graded coarse bedding sand. Ensure that the sand is relatively dry and spread evenly then compact with a hand held or mechanical compactor. The thicknesses of the bedding sand should be between 25 and 30mm thick when compacted.

### *3. Levelling*

Use a screed to level the sand and allow for a slight fall away from any walls to ensure adequate drainage.

### *4. Grid Lines*

The pavers can be placed on the bedding sand and the grid lines.

### *5. Edge Restraints*

The perimeter of all paved areas should be provided with edge restraints to prevent lateral spread of the pavers and consequent loss of interlock. An edge beam may be necessary to put in place if the paving area doesn't provide them i.e. a wall or kerb etc. The edge beams are generally made using a concrete mix to the relative Australian Standards.

### *6. Compacting*

Compacting of the paver can be done using an appropriate compacting plate with the plate covered with a soft layer of material to avoid chipping the surface of the pavers (ie carpet).

### *7. Joints*

The joints in the pavers should be a minimum of 6mm and can be filled after compaction with appropriate jointing sand swept into the joints. Spread dry sand over the paved area and brush it into the vertical joints with a stiff bristled broom. Please clean the area of excess sand before final compaction.

### *8. Re-compacting*

The area can be re-compacted after the joints have been swept with sand and more sand applied where necessary.

### *9. Regular Checks*

Regular checks should be done to ensure that the paving is performing as desired and any maintenance should be carried out to ensure the structural integrity of the paving.

*Austral Masonry recommends sealing of all pavers after installation.*



# *Discover* OUR RANGE

## **COLOURED MASONRY BLOCKS AND BREEZE BLOCKS**

Our extensive range of architectural masonry products are available in a range of sizes, formats, and finishes from Austral Masonry and GB Masonry.

## **GREY MASONRY BLOCKS**

Austral Masonry offer an extensive range of sizes and formats with light weight options available in selected locations.

## **CONCRETE PAVERS**

For commercial and residential applications, our range includes a collection of sizes, textures and a plethora of colours.

## **ENGINEERED STONE PAVERS**

Offered exclusively from UrbanStone, the engineered stone range of pavers are the pinnacle in quality and style.

## **NATURAL STONE**

Granite and Limestone flooring, and natural stone wall cladding are style solutions created by nature and perfected by UrbanStone.

## **PORCELAIN STONEWARE**

Created in Italy by Keope Ceramiche, our porcelain stoneware collection is the epitome of style, designed to suit indoor and outdoor applications.

## **RETAINING WALLS**

Choose from concrete retaining wall blocks or concrete sleepers suitable for DIY, general landscaping or large scale commercial retaining wall applications.

## **LIMESTONE BLOCKS**

The engineered limestone and natural limestone block range is sourced through quarries in Western Australia with two finishes available to complement the natural limestone colour.

## **PREBLENDED MORTAR AND ACCESSORIES**

From Mortex preblended mortar, to concrete sealers and mortar additives, Austral Masonry offers a host of installation accessories.







# HOME OF *inspiration*

*Brickworks Design Studios  
The hub of creative and design activity*



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Brickworks Building Products is one of Australia's largest and most diverse building material producers and providers. With our heritage as one of Australia's founding brick businesses many generations ago, we hold the values of family, community, sustainability, innovation and quality at our core. We know our quality products last forever, which is why our some of products come with a 100 year guarantee.

Under the Brickworks Building Products umbrella are some of Australia's best known building materials brands. Our products include bricks, pavers, masonry blocks, retaining wall systems, precast concrete panels, solar, concrete and terracotta roof tiles, timber products, terracotta façades and specialised building systems.

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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.