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, Bristile Roofing, Austral Precast and Auswest Timbers.
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**style and function**

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inspired by design
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: 1,200 mm* (3 m when engineered)
- Straight walls
- Curved walls
- Corners
- Steps

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

Above: Hayman Limestone
Limestone Oak Gumnut Charcoal

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

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 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 Sandstone**

**Brisbane Blend**

**Sydney Blend**

**Oak Gumnut Charcoal**

**Standard Unit**

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

**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 75 H mm  
Weight (each): 14 kg  
2.56 per lineal metre

**End Block**

Size: 160 L x 245 W x 198 H mm  
Weight (each): 18 kg
Moreton retaining wall blocks will complement any landscape with a unique and timeless appeal. High quality and robust in nature, Moreton Retaining Wall Blocks are easy to install and require minimal maintenance.

**Applications**

- Maximum wall height: 1,000 mm*
- (3 m when engineered)
- Straight walls
- Curved walls
- Steps

*Please check with your local council in regards to engineering requirements.
Limestone Oak Charcoal Sydney Blend

**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
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 lay and are virtually maintenance free.

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.

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

Wall Block
Size: 390L x 245W x 162H mm
Weight (each): 17.5kg
Blocks per m²: 1m² wall = 16 blocks

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

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

Sand
Charcoal
BRIBIE
simple yet distinctive

These light weight blocks are the ideal solution to add style to your landscaping project with the greatest of ease. The simple design of this unit enables flexibility in applications from long winding garden beds to curved corners.

Applications
- Maximum wall height: 360 mm*
- Straight walls
- Curved walls
- Minimum circle: 18 blocks
- Minimum radius to inside: 450 mm

*Please check with your local council in regards to engineering requirements.
Limestone Sydney Blend Oak Charcoal

Standard Unit
Size: 190 L x 100 W x 120 H mm
Weight (each): 4.5 kg
Blocks per lineal metre: 5.25
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: 1000mm*
- (3m when engineered)
- Straight walls
- Curved walls
- Corners
- Steps

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

Above: Fitzroy Sandstone
Please check with your local council in regards to wall height restrictions.

**Outback Charcoal Claypan Beach Sandstone Rockwall 1000**

Size: 375 L x 210 W x 180 H mm
Weight (each): 19.23 kg
Face area: 14 units per m²
Units per pallet: 90
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: 1000mm*
- (3m when engineered)
- Straight walls
- Curved walls
- Corners
- Steps

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

Above: Daydream Charcoal
Outback Charcoal Claypan Beach Sandstone Rockwall 1200

Size: 205 L x 203 W x 130 H mm
Weight (each): 12.19 kg
Face area: 25 units per m²
Units per pallet: 100

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

Charcoal Outback Claypan Sandstone Beach
The Whitsunday range captures a collection of colours created to suit the Australian landscape. Available in a large format and the rustic split face finish, Whitsunday retaining walls offer excellent design flexibility and a natural style.

APPLICATIONS
- Maximum wall height: 1000mm*
- (3m when engineered)
- Straight walls
- Curved walls
- Corners
- Steps

*Please check with your local council in regards to wall height restrictions.
Rockwall 2000
Size: 390 L x 300 W x 155 H mm
Weight (each): 29 kg
Face area: 16.6 units per m²
Units per pallet: 60
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: 1,000 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.
Standard Unit
Size: 457 L x 305 W x 203 H mm
Weight (each): 36 kg
Face area: 11 units per m²

Flushface Unit
Size: 457 L x 305 W x 203 H mm
Weight (each): 36 kg
Face area: 11 units per m²

Capping Unit
Size: 460 L x 305 W x 100 H mm
Weight (each): 30.8 kg
2.62 per lineal metre

Flushface Straight Side Cap
Size: 460 L x 305 W x 100 H mm
Weight (each): 30.8 kg
2.62 per lineal metre

Corner Unit 90°
Size: 460 L x 230 W x 200 H mm
Weight (each): 36 kg
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
Ideal for pedestrian use, Harbourpave pavers are light, easy to use, and available in a variety of earthy colours.

APPLICATIONS
- Pools
- Paths
- Patios
- Courtyards

* Check installation requirements with Austral Masonry
Beach Flame Tan Charcoal

Harbourpave Standard Paver
Size: 190L x 190W x 40H mm
Weight: 3kg
Units per m²: 27.5
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 0.8m 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**

- String line
- Tape measure
- Walling units
- Compaction tool
- Shovel
- Spirit level
- Wheel barrow
- Agriculture drain pipe
- Pegs or stakes
- Broom
- Gloves & eye protection
- Mitre saw (to cut blocks if req’d)
- 10-20 mm crushed stone
- 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: Bearing Pad
The facing shall be built on a bearing 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
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 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.

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.
## Retaining Wall Information

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<th>Product</th>
<th>Range</th>
<th>Description</th>
<th>Max Wall Height</th>
<th>Size</th>
<th>Weight</th>
<th>Coverage</th>
<th>Applications</th>
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<tbody>
<tr>
<td>Heron Standard Unit</td>
<td>800 mm*</td>
<td>390 x 245 W x 198 H mm</td>
<td>24 kg</td>
<td>13 Blocks per m²</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heron Corner Block</td>
<td>-</td>
<td>160 x 360 W x 198 H mm</td>
<td>20 kg</td>
<td>Available in left or right</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heron End Block</td>
<td>-</td>
<td>160 x 245 W x 198 H mm</td>
<td>18 kg</td>
<td>Available in left or right</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heron Capping Unit</td>
<td>-</td>
<td>390 x 245 W x 75 H mm</td>
<td>14 kg</td>
<td>2.56 Blocks per lineal metre</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
<td></td>
<td></td>
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<tr>
<td>Moreton Standard Unit</td>
<td>1000 mm</td>
<td>390 x 200 W x 200 H mm</td>
<td>18.5 kg</td>
<td>13 Blocks per m²</td>
<td>Curved Walls, Straight Walls, Steps</td>
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<td></td>
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<tr>
<td>Moreton Capping Unit</td>
<td>-</td>
<td>390 x 200 W x 200 H mm</td>
<td>22 kg</td>
<td>-</td>
<td>Curved Walls, Straight Walls, Steps</td>
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<tr>
<td>Hayman Standard Unit</td>
<td>800 mm*</td>
<td>390 x 245 W x 198 H mm</td>
<td>24 kg</td>
<td>13 Blocks per m²</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hayman Universal Corner</td>
<td>-</td>
<td>160 x 360 W x 198 H mm</td>
<td>17.2 kg</td>
<td>Universal - can be used for left and right corners</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
<td></td>
<td></td>
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<tr>
<td>Hayman Capping Unit</td>
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<td>390 x 245 W x 90 H mm</td>
<td>16 kg</td>
<td>2.56 Blocks per lineal metre</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
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<tr>
<td>Bribie Standard Unit</td>
<td>360 mm</td>
<td>190 x 100 W x 120 H mm</td>
<td>4.5 kg</td>
<td>5.25 per lineal metre</td>
<td>Curved Walls, Straight Walls</td>
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</table>

^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.
<table>
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<th>Weight</th>
<th>Coverage</th>
<th>Applications</th>
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<tr>
<td>Keystone</td>
<td>Standard</td>
<td>Unit</td>
<td>1000mm**</td>
<td>457L x 305W x 203H</td>
<td>36kg</td>
<td>11 Blocks per m²</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
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<tr>
<td>Keystone</td>
<td>Flushface</td>
<td>Unit</td>
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<td>36kg</td>
<td>11 Blocks per m²</td>
<td>Corners</td>
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<tr>
<td>Keystone</td>
<td>Capping</td>
<td>Unit</td>
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<td>460L x 305W x 100H</td>
<td>30.8kg</td>
<td>2.62 per lineal metre</td>
<td>Curved Walls, Straight Walls, Corners</td>
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<tr>
<td>Keystone</td>
<td>Straight Side Cap</td>
<td></td>
<td>-</td>
<td>460L x 305W x 100H</td>
<td>30.8kg</td>
<td>2.62 per lineal metre</td>
<td>Curved Walls, Straight Walls, Corners</td>
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<tr>
<td>Keystone</td>
<td>Corner Unit 90º</td>
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<td>-</td>
<td>460L x 230W x 200H</td>
<td>36kg</td>
<td>N/A</td>
<td>Curved Walls, Straight Walls, Corners</td>
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<tr>
<td>Grandwall</td>
<td>Wall Block</td>
<td>810mm*</td>
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<td>390L x 245W x 162H</td>
<td>17.5kg</td>
<td>16 Blocks per m²</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
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<tr>
<td>Grandwall</td>
<td>Corner Block</td>
<td>-</td>
<td></td>
<td>340L x 140W x 162H</td>
<td>20kg</td>
<td>N/A</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
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<tr>
<td>Grandwall</td>
<td>Capping Unit</td>
<td>-</td>
<td></td>
<td>195L x 245W x 65H</td>
<td>6kg</td>
<td>2.56 Blocks per lineal metre</td>
<td>Curved Walls, Straight Walls, Corners, Steps</td>
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<tr>
<td>Fitzroy</td>
<td>Wall Block</td>
<td>1000mm*</td>
<td></td>
<td>375L x 210W x 180H</td>
<td>19.23kg</td>
<td>14 Blocks per m²</td>
<td>Curved Walls, Straight Walls, Steps</td>
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<tr>
<td>Daydream</td>
<td>Wall Block</td>
<td>1000mm*</td>
<td></td>
<td>295L x 203W x 130H</td>
<td>12.19kg</td>
<td>25 Blocks per m²</td>
<td>Curved Walls, Straight Walls, Steps</td>
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<tr>
<td>Whitsunday</td>
<td>Wall Block</td>
<td>1000mm*</td>
<td></td>
<td>390L x 300W x 155H</td>
<td>29kg</td>
<td>16.6 Blocks per m²</td>
<td>Curved Walls, Straight Walls, Steps</td>
</tr>
</tbody>
</table>
RETAINING WALL

cross sections

Moreton

- Capping block
- Compacted clay
- Soil or mulch
- Fall away
- Maximum height “H”
- Half to one block buried below ground
- Backfill
- Crushed stone (free draining medium) 300 W mm
- 100 mm diameter ‘ag’ pipe
- Footing: 500 W x 150 H mm
- Compacted road base

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

Heron / Hayman

- Capping block
- Dish drain to direct surface run off
- Step back angle 20°
- 1m (no loading)
- Soil or mulch
- Fall away
- Backfill
- Crushed stone (free draining medium) 300 W mm
- 100 mm diameter ‘ag’ pipe
- Footing: 500 W x 150 H mm
- Compacted road base

* 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.
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.*
PAVER

Slip Rating Applications according to Australian Standard HB198:2014

<table>
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<tr>
<th>Slip Rating</th>
<th>Applications</th>
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<tr>
<td>P5</td>
<td>External ramps steeper than 1:14</td>
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<tr>
<td>P4</td>
<td>External colonnade and walkway</td>
</tr>
<tr>
<td>P1</td>
<td>Entries &amp; access areas - public buildings - DRY</td>
</tr>
</tbody>
</table>

**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 m², Gun Metal - P5, Pedestrian
  - Bullnose Unit: 400 L x 400 W x 40 H mm, 6.25 Units per m², Ivory - P5, Driveways

- **Harbourpave**
  - Standard Unit: 190 L x 190 W x 65 H mm, 27.5 Units per m², N/A, Indoor

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THE FINER DETAILS
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.
HOW TO
lay pavers

Paver Patterns

Materials required

- Pavers
- Gravel Roadbase (1m³ covers 10m² at a compacted depth of 100mm)
- Bedding Sand (1m³ will cover 30m² 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
1. **Excavating**
Remove all vegetation, rubble and surplus soil from the selected area. A metal headed rake is ideal for excavation. This will give you a formation on which to work. The sub base goes over the sub grade. If using sub base for domestic driveways, minimum 100mm of limestone or roadbase is recommended. For patio and pedestrian areas, cemented stabilised sand may be used. See Figure 1. It is recommended that all large format pavers when used in vehicle areas are bedded in either a sand and cement mortar bed or fixed using a flexible adhesive.

2. **Compacting**
Compact the sub base with a hand held / mechanical compactor to a maximum deviation of 10mm from true level. Though hand-held compactors will be adequate for small jobs, mechanical compactors should be hired for driveways and larger areas. After compaction, cover the sub base with 20 to 50mm of well graded coarse bedding sand. Ensure that the sand is relatively dry. With 3% clay the bedding sand provides a barrier and protects the pavers from harmful salt attacks. Concreting sand is suitable for this purpose. NB. Compactor not included in DIY paving kit. See Figure 2.

3. **Levelling**
Place the screeding board along the base of a wall or straight vertical structure. This will give you a level for the bottom of the paver unit. This level is called the benchmark. See Figure 3.

4. **Screeding**
Lay the screeding board at right angles to the benchmark to create a level for the screeding irons. For drainage purposes, always allow for a slight fall-away from the edge of the wall. This should be about 25mm over a distance of three metres. (Use your spirit level to measure fall-away. Bubble should reach outer line.) Repeat the above process at one screeding board length along the benchmark. These two indentations will be your height marks. See Figure 4.

5. **Screeding continued**
Continue to push the screeding board into the sand along the full length of the area to be covered, maintaining the level of the first height marks. Starting at the benchmark, place the screeding board on the screeding iron and drag it back and forth until the sand between the screeding irons is smooth and level. Move the screeding irons along the height marks, and continue to level the sand with the screeding board. See Figure 5.

6. **Screeding continued**
Further Screeding. Repeat steps (3) and (5) to level the next section of sand. Allow one of the height marks to slightly overlap the area you have already levelled. When the entire area is level, you are ready to use your pavers units. Look for any hollows or bumps in the levelled sand. This stage may be your last chance to smooth them out. See Figure 6.

7. **Selecting Patterns**
Austral Masonry pavers units are available in a wide range of colours and shapes. See page 16. However, for vehicular traffic, only herringbone patterns should be used.

8. **Gauging**
Determine the average length and width of pavers by measuring the cumulative dimensions of 20 pavers and dividing by 20. The laying gauge is then determined for the pattern selected by using the average dimensions determined together with a nominal joint width of 2.3mm. Before laying pavers, a grid of string lines not more than 1 metre apart should be set up covering the area to be paved. No contact should exist with adjacent pavers. See Figure 8.

9. **Trimming**
After whole paver units have been laid, the units are cut for use at the edges, corner, curves and obstructions if any. This can be effectively achieved when safely using a diamond blade brick saw or a masonry saw. See Figure 9.

10. **Edge Restraint**
The most effective way to keep edge pavers units in position is to set them in cement. Take up the last row of pavers units and drag away 20cm of sand to a depth of 6cm (10cm for driveways). Level out the cement mortar and place the pavers in position by lightly tapping them. Do not use the laid area for at least 24 hours after the cement is laid. A driveway should not be used for 48 hours. See Figure 10.

11. **Jointing Sand**
Masonry pavers units are designed to function with sand completely filling the vertical joints. This is essential for effective lock-up and shear transfer. Spread dry sand over the laid area and brush it into the vertical joints with a stiff bristled broom. Please clean the area of excess sand before final compaction. See Figure 11.

12. **Final Compaction**
Use the rubber mallet and the flat length of timber provided to compact small areas. However for larger area and driveways, it is advisable to use a plate compactor and protect the laid area with a layer of excess jointing sand (approx 5 to 10mm) and plyboard to prevent it from coming in direct contact with the units. Top up the joints with jointing sand after compaction. See Figure 12.

**Austral Masonry recommends sealing of all pavers after installation.**
Brickworks Building Products is one of Australia’s largest and most diverse building material manufacturers. 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, concrete and ceramic roof tiles, timber products, terracotta façades and specialised building systems.

With a broad product portfolio and manufacturing and sales facilities across Australia, Brickworks Building Products is uniquely placed to service the demands of the building industry.

With over 1,200 staff across Australia and New Zealand, we pride ourselves on our commitment to product, service excellence and our leadership position.
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.