

Residential Concrete Pavers

Installation Guide | June 2022



What’s inside

- 1 – Product Specifications p⁰⁷
- 2 – Installation p¹⁵
- 3 – Maintenance p²⁵
- 4 – Get in Touch p³²





Designed to last

Not all paving products are the same. Our masonry range is designed to stand the test of time in all weather, situations and locations. Easy to install. Simple to care for.

1.

Affordable
For a premium product, our concrete masonry range offers an affordable option.

2.

Low maintenance
Minimal maintenance, maximum impact. You're guaranteed a long-lasting, tough, and easy to care for solution.

3.

All-weather resistant
Heavy storms. Blistering heat. Sub-zero frosts. Our products are designed to hold up to anything our weather systems are capable of throwing at it.

4.

Fire resistant
All of our products are non-combustible and highly fire resistant – making them ideal for bushfire prone areas.

5.

Termite resistant
With no organic wood materials present in our concrete formulations, our masonry range is naturally termite resistant.

6.

Simple installation
Easy to install and structurally robust – our products are perfect for 'do it yourself' installations.

7.

Environmentally aware
We've designed our production processes to minimise effects on the environment ensuring they do not deplete precious natural resources.

8.

Impact resistance
Our masonry range is also renowned for its toughness and hard-wearing properties, and can handle impacts from many external forces.



Product Specifications

1

Residential Pavers and Applications

Range	Installation on Sand	Installation on Concrete	Installation on Pedestals (Pedestrian only)	Suitable for Wet Areas (e.g. pools)*	Pedestrian Only (e.g. paths, patios and outdoor areas)	Pedestrian and Light Vehicles (e.g. driveways, parking spaces)^	Pedestrian and Commercial Vehicles*
Camino 50							
230×115×50mm	✓	✓	×	✓	✓	✓	×
Broadway 150, 300, 400							
300×150×60mm	✓	✓	×	✓	✓	✓	✓
300×300×50mm	✓	✓	×	✓	✓	✓	×
400×400×45mm	✓	✓	✓	✓	✓	×	×
Plazastone 500							
500×500×45mm	✓	✓	✓	✓	✓	×	×
Harbourpave							
190×190×40mm	✓	✓	×	✓	✓	×	×
Textura Slate							
400×400×40mm	✓	✓	✓	✓	✓	×	×
Florence							
200×200×50mm	✓	✓	×	✓	✓	✓	×
200×200×60mm	✓	✓	✓	✓	✓	✓	✓
Ecology							
400×400×55mm	✓	✓	✓	✓	✓	×	×

* Austral Masonry recommends dip sealing underneath your pavers with a penetrating sealer if pavers are used for pool coping

^ Light Vehicle is a vehicle which, when fully loaded, has a gross weight less than 3 t.

* Commercial Vehicle is a heavy vehicle with a gross weight of 3 t or more that adheres to relevant State or Commonwealth legislation.



Paver Sizes

Concrete Pavers

Range	Product	Finishes Available	Size (mm)	Units per SQM	Slip Rating	Weight (kg)	Water Absorption (%)	Breaking Load (kN)	Abrasion Resistance
Camino 50	Standard Unit	Smooth	230L × 115W × 50H	37.8	P5	2.8	6.0	5.6	8.1
Broadway 150	Standard Unit	Smooth	300L × 150W × 60H	22.2	P5	5.8	6.0	7.2	5.8
			300L × 300W × 50H	11.11		9.8		7.2	
			400L × 400W × 45H	6.25		16.0		8.2	
Plazastone 500	Standard Unit	Smooth	500L × 500W × 45H	4	P5	23.6	6.0	8.1	3.7
Harbourpave	Standard Unit	Smooth	190L x 190W x 40H	27.5	P5	3.0	5.9	3.2	10.6
Textura Slate	Standard Unit	Slate	400L x 400W x 40H	6.25	P4	14.4	4.7	7.0	1.7
Florence	Standard Unit	Smooth	200L × 200W × 50H 200L × 200W × 60H	25	P5	3.0	6.0	10.8 12.7	6.8
Florence	Standard Unit	Honed	200L × 200W × 50H 200L × 200W × 60H	25	P4	3.0	6.0	10.8 12.7	5.3
Ecology	Standard Unit	Smooth	400L x 400W x 55H	6.25	P5	17.0	7.5	6.0	11.0

Slip Ratings

Slip Rating	Suitable applications according to Australian Standard HB198:2014
P5	Swimming pool ramps and stairs External ramps steeper than 1:14 loading docks commercial kitchens
P4	External colonnade and walkway pedestrian crossings, driveways verandahs, balconies serving areas behind bars, cold stores swimming pool surrounds communal shower rooms
P3	Undercover car parks Shop entry areas with external entrances shop and supermarket fresh fruit and vegetable areas wet areas in hotels, offices, public buildings, schools and kindergartens bathrooms in hospitals and aged care facilities
P2	Hotel apartment bathrooms and kitchens wards and corridors in hospital and aged care facilities
P1	Entries & access areas - public buildings - DRY supermarket aisles (except fresh food)



Installation of Residential Pavers

2

Installation

Please note these recommendations are intended as a guide only and should be used in addition to the relevant Australian Standards for trade practices. Note that installation may vary from site to site with conditions experienced on that site (i.e. soil conditions, pool surrounds, driveways etc.). The contractor should decide if these suggestions are suitable for their application or require further adjustment.

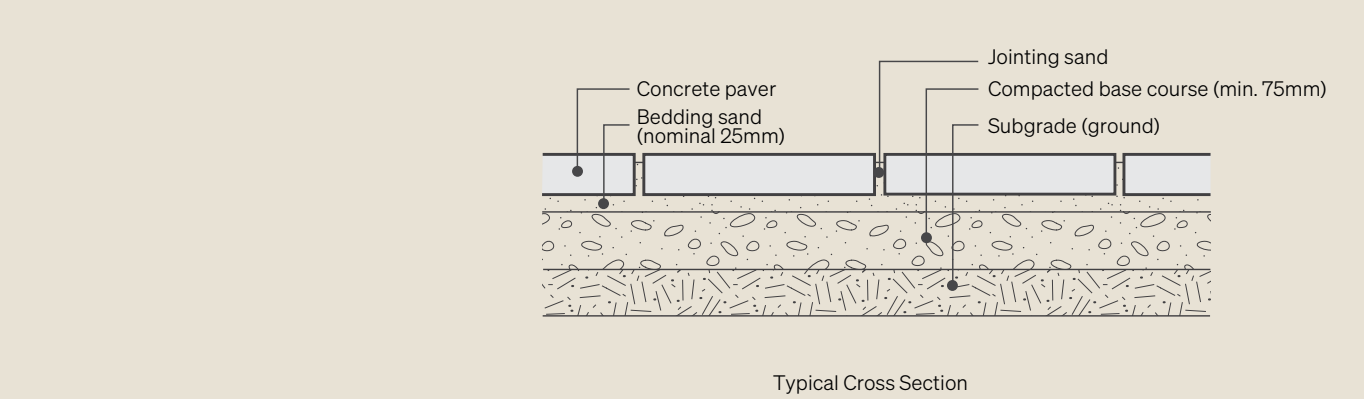
Laying on Sand

Suitable for use with all Concrete Pavers for pedestrian applications and those specified for light vehicle use in the application table.

When using the flexible method it is critical to have good drainage to allow water and moisture to drain away from the paved area quickly.

For paving that will be used for light vehicles it is best to lay the pavers in herringbone, basket weave and stretch bond laying patterns.

1.	2.	3.	4.
The base course shall be gravel road base and be 75 to 100 mm thick. The base course shall be levelled within a tolerance of no more than 5 mm 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 application.	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 30 mm thick when compacted.	Use a screed to level the sand and allow for a slight fall away from any walls to ensure adequate drainage.	The product can be placed on the bedding sand using grid or string lines to ensure alignment.
See diagram 1.	See diagram 2.	See diagrams 3a, 3b and 3c.	See diagrams 4a and 4b.



5.	6.	7.
The perimeter of all paved areas should be provided with edge restraints to prevent lateral spread of the tiles and consequent loss of interlock. Edge restraints should be placed within 100 mm of the subgrade and base course. Suitable edge restraints include vertical edge bricks laid in a small concrete trench, exposed or concealed concrete beams, and walls, kerbs, e.t.c. The edge beams should be constructed using a concrete mix to the relative Australian Standards.	Compacting of the area 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 products (i.e. carpet).	The joints between the product should be between 3 and 5 mm 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. Clean the area of excess sand before final compaction.
Note: It is absolutely critical for properly installed edge restraints to be used for all vehicular applications.	See diagram 5.	Jointing sand facilitates the interlock between units and promotes controlled movement. It is recommended to leave a 10 mm gap between pavers every 8 metres.
		See diagram 6

8.	9.
The area can be re-compacted after the joints have been swept with sand and more sand applied where necessary.	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 paved area.



Installation

Laying on Concrete

Suitable for use with all Concrete Pavers for pedestrian applications and those specified for light vehicle and commercial vehicle use in the application table.

It is recommended that the slab to which the mortar is going to be applied, be free and clear of all dust and debris. It is vital to ensure that the surface is clean, to enable a good bond to take place between the mortar and the concrete base.

For paving that will be used for vehicles it is best to lay the pavers in herringbone, basket weave and stretch bond laying patterns.

Foundation

The foundation you lay will depend on the traffic that the paved area will support. Please follow the following guidelines:

Pedestrian traffic only: reinforced concrete 75 mm thick

Driveways and light traffic: reinforced (SL72 mesh) concrete base 100 mm thick with a minimum strength of 25 MPa.

Commercial traffic: Engineers advice should be consulted to take into account the specific requirements and design.

*Engineers advice should be sought in the design of all concrete. Contractors should also consider drainage and/or waterproofing issues to minimise the risk of rising humidity which can bring salts contained in the soil or in the bedding layers to the surface.

Concrete Base Laying Procedure

1. Clean and dampen the concrete on which the product is to be laid.
2. Apply the bonding slurry to the concrete where the mortar is to be placed in an even coat (1 to 2 mm thick).

Bonding slurry compound

Cement and water can be mixed with a paddle mixer or in a barrel cement mixer. It should be mixed until free of all lumps and all material is completely blended together using:

- 1-parts blended coarse washed sand (as per Australian Standards)
- 6-part Portland type GP cement (as per Australian Standards)

- Sufficient water to form a slurry of workable consistency
- The slurry provides a good bond between the concrete slab and the mortar bed.

3. Place the mortar mix on the concrete and the paste on which the pavers are to be laid. The mortar bed should be 25 mm thick with no voids and evenly spread.

Mortar compound

The recommended mix is:

- 3-parts blended coarse washed sand (as per Australian Standards)
- 1-part Portland type GP cement (as per Australian Standards)
- 1-part clean water (Note: additional water

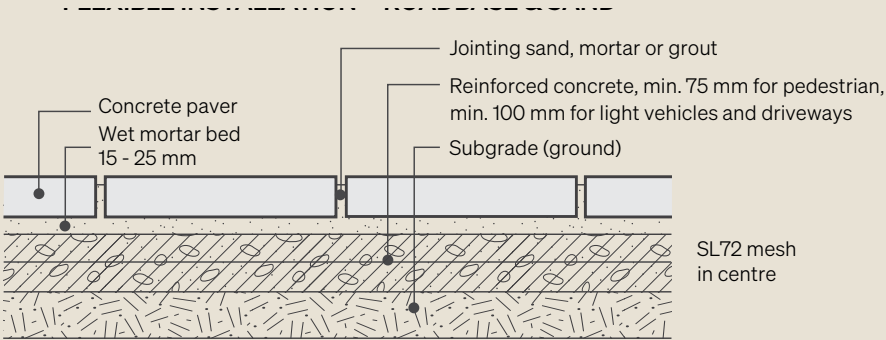
- can be added to achieve the desired consistency)
- Bonding agent: this will help with the workability, adhesion and strength

It is recommended that the proportioning of the materials used in the installation of pavers that buckets (not shovels) are used.

4. Remove all loose material from the back of the product before laying.
5. Apply the bonding slurry to the back of the product in an even coating (1 to 2 mm thick).
6. Place the product into position gently tapping down with a rubber mallet (white rubber mallet is recommended to avoid marking the product). It is important to ensure that

there are no air voids under the product as this may cause the adhesion of the product to fail or the product may not be fully supported.

7. Tap the pavers down to the desired level.
8. Trowel fill any voids around the product and remove any excess mortar and discard it.
9. Do not spread too much mortar as it may begin to dry before you have laid the product. Work in small controlled areas.



Typical Cross Section

10. Jointing

Joints should be filled with jointing sand or grout.

Jointing Sand

The joints between the product should be between 3 to 5 mm and can be filled after laying with appropriate jointing sand swept into the joints.

- a. Spread dry sand over the paved area
- b. Brush it into the vertical joints with a stiff bristled broom
- c. Clean the area of excess sand.

When using jointing sand for vehicle applications (e.g. driveways) it is best to use jointing sand with a binder and always maintain sand to prevent paver movement.

Grouting

It is recommended to use a high grade pre-bagged grouting compound that is suitable for the application. It should cater for grout joints of between 3 to 5 mm.

- a Dampen grout joints and stone with a sponge.
- b Place grout into joints, ensuring no voids, to the full depth of the product.
- c Remove any excess grout with a trowel.
- d Sponge clean the products surface with water, ensuring all excess grout has been removed.

Mortar

It is recommended to use a mix of 4 parts jointing sand with 1 part of concrete. Expansion joints should be included when using mortar to greatly reduce the chance of unsightly surface cracks from appearing.

1. Dampen mortar joints and paver with a sponge.
2. Place mortar into joints, ensuring no voids, to the full depth of the product.
3. Remove any excess mortar with a trowel.
4. Clean the products surface with a dry stiff bristled brush, ensuring all excess mortar has been removed.

11. Cleaning

Pavers should be cleaned when grouting material has set. Cleaning will enable any grouting residue to be removed.

1. Wet the area you wish to clean down.
2. Apply a pH neutral cleaning solution or other approved cleaning system.
3. Gently agitate surface with a stiff broom or scrubber.
4. Rinse surface thoroughly using a neutral cleaner.

It is recommended to work in small areas at a time (3 to 4 m²) and thoroughly wash as you go. It is important to have a well wet down surface before you apply the cleaning mix.

Notes

1. Pool installations

We recommend all coping pavers that are subject to continual wetting and drying should be dip sealed prior to laying, with an appropriate sealer.

2. Sealing

For areas that could be subject to staining from spill, oils and greases it is advisable to seal the surface using a penetrating spirit based stone sealer.

3. Slope

When dealing with outdoor flooring, special attention must be paid during planning to respond adequately to rainwater run-off. This is done by dividing the floor field into different drainage surfaces if necessary and giving them effective slope and perfect flatness. This will avoid trapping water on the floor surface. The following slopes are recommended:

- Small areas surfaces: gradient > 1%
- Large areas surfaces: gradient > 2%

4. Batch mixing - colour

Given these are natural products, variations in colour are an inherent characteristic of the product. We suggest selecting product from all pallets delivered whilst laying. This will enhance the natural look of the product and the overall effect of the area that has been laid.

Installation

Laying on Pedestals on Concrete Base - Pedestrian Only

Suitable for use with specified [Concrete Pavers](#) and sizes for pedestrian applications.

For elevating installations where a concrete base has been installed such as balconies, roof gardens and terraces.

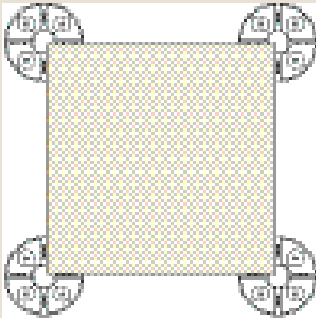
Certain concrete paver sizes can be used in conjunction with proprietary elevated support systems.

These support pedestals are fully adjustable and allow the creation of raised floors, allowing for the installation of electrical and water systems in the cavity below. The project engineer and/or customer must carefully assess the project requirements regarding the technical specifications of the products.

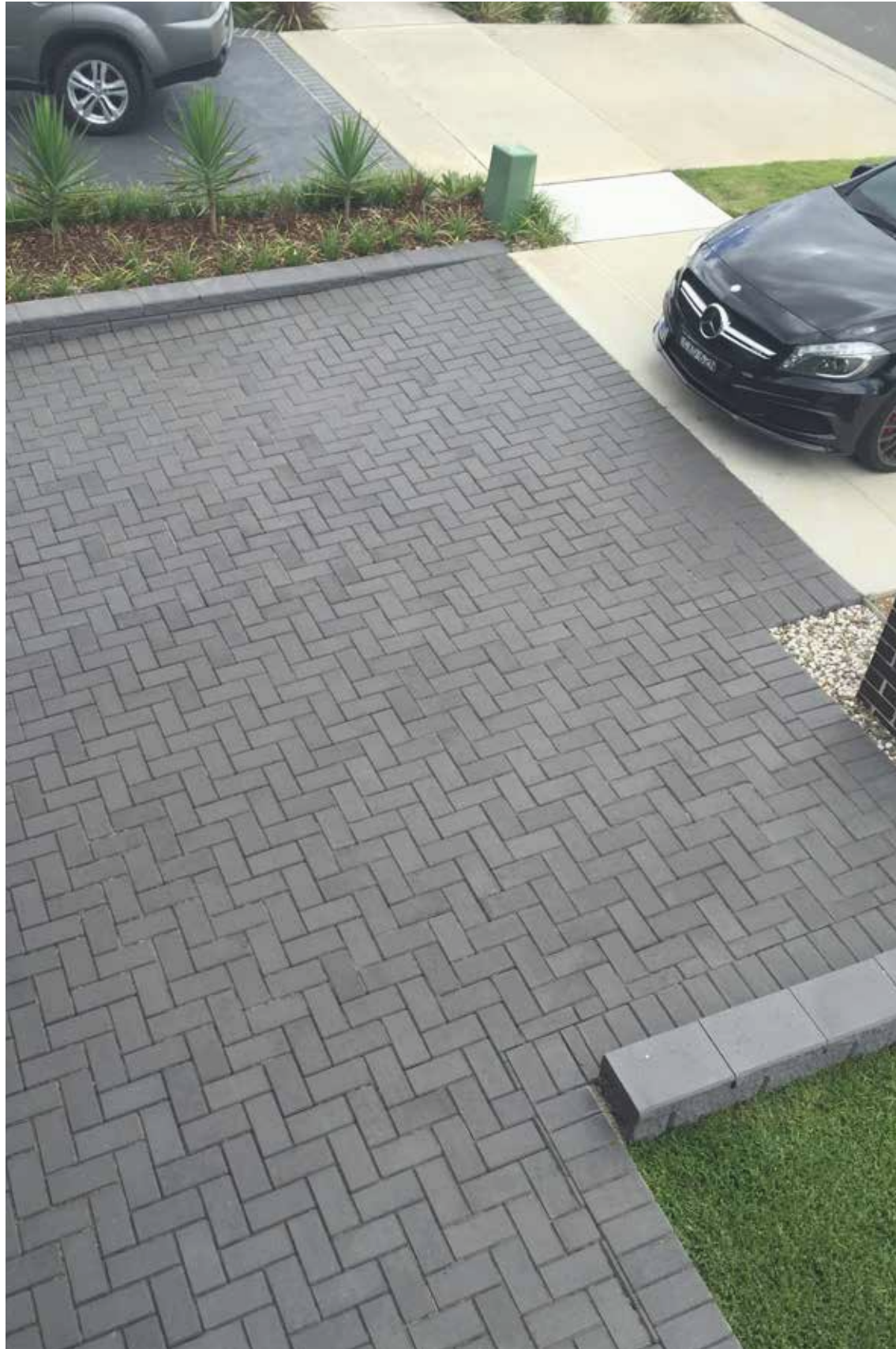
Concrete paver ranges may fracture on impact if a heavy object falls on it from any significant height.

To prevent the risk of damage or injury, it is recommended to check the specific intended use before starting the installation and to follow the manufacturers installation requirements. In certain conditions, reinforcing must be applied on the back of the pavers.

Paving Supports



Dimension Size:
Concrete Pavers
400 x 400 x 40/50/55mm
500 x 500 x 50mm
Supports Required: 4 supports per slab



3

Maintenance

Maintaining your paved area will ensure its inherent beauty is preserved forever. By following certain sealing and cleaning guidelines, you can rest assured that your products will look stylish for the life of your home.

Sealing

Austral Masonry recommends that all products supplied be sealed with a penetrating sealer. Sealing your pavers is a way to protect it from staining and to make your day to day cleaning easier.

Most paving products can stain when they absorb liquids or moisture that can remain in contact with them for extended periods of time. If you are laying the product in an area where they are likely to encounter liquids, a sealer should be applied to help avoid future staining.

It is always recommended to seal a test area first and seek advice from your sealer company.

Where paving is being used as a pool coping, it is recommended to dip seal underneath the units to mitigate potential issues resulting from exposure to chemicals in the pool water.

Cleaning

It is advised that you regularly sweep the area to minimize the amount of dirt and debris which settles on the surface and to allow your paved area to continue looking it's best.

Depending upon water restrictions, the use of high pressure water cleaners on an annual basis will assist in maintaining your pavers in pristine condition.

To prevent staining or dirt build up, the product should be rinsed regularly with warm water and a non-abrasive,

clear, non-acidic detergent. A pH neutral cleaner is recommended. Austral Masonry does not recommend the use of acids on any of our products as this can cause damage.

All spills should be wiped up immediately. Soft drinks, coffee, tea and fruit juices contain mild acids which can etch and stain the products quite rapidly. These should be cleaned off with mild soap and warm water.



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