

Product Guide

SOUTH QUEENSLAND



Contents

The National Masonry range



Product Disclaimer

Concrete Blocks, Bricks, Pavers and Retaining Wall products supplied by National Masonry are manufactured using raw materials that inherently vary in nature. Whilst all effort is made to produce uniformity in our range of products, variation in colour, texture, and finish can be present. The dimensional characteristics of all products are nominal and variations in length, height, and width can occur from unit to unit which needs to be taken into consideration when installing these products.

About National Masonry

The National Masonry story began with the acquisition of Boral Masonry's Mackay operation in April 2012 and continues to grow with the acquisition of Boral Masonry's South Queensland and Victorian operation in January 2013. National Masonry retains the heritage of expertise and industry credentials and combine these with the flexibility and innovative foresight of an independent privately owned company. Our customers will benefit from dealing with the same great people, same great products and services, and a new vision for the future.

National Masonry, the new benchmark in Masonry.



Contents

Paving

Catering to every design scheme, National Masonry's paving collection will give your outdoor area the stylish, individual touch it's been waiting for. Whether you're after a complete revamp to create a more contemporary space or going back to basics with a more traditional feel, National Masonry's range will inspire and stimulate ideas to make your outdoor design dream a reality. Available in a range of sizes, colours and finishes, the possibilities are endless with National Masonry pavers.

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Walling

When it comes to walls, National Masonry's range delivers a mix of style, structure and functionality. From beautiful garden edges to decorative walls, National Masonry's variety of textured surfaces, patterns and colours can give your next project everything from a light airbrush to an extreme makeover.

Overflowing with inspiration and creative ideas, this brochure will take you on a journey through what your outdoor space could look like – with a little touch of National Masonry.

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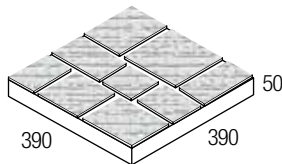
Millstone™

NEW

Millstone brings a touch of class to any outdoor area with its beautiful natural slate look whilst ensuring installation is both quick and simple.

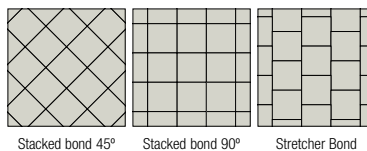
Recommended for:

Pedestrian (paths, patios, courtyards).



3 Patterns supplied randomly
6.57 units per m².

Patterns



Stacked bond 45°

Stacked bond 90°

Stretcher Bond



Charcoal



Sandstone
(Blended Colour)



Sunburnt
(Blended Colour)

Urbanpave™

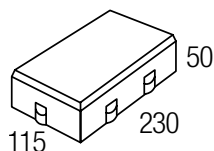
Standard small format pavers are a practical, affordable, and versatile choice offering easy installation and maintenance.

Recommended for:

Pedestrian (paths, patios, courtyards) and domestic driveways.

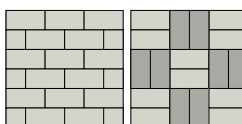


Now available in 2 colours.



Urbanpave™
37 units per m²

Patterns

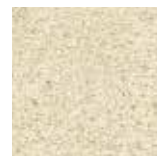


Stretcher Bond

Basketweave



Charcoal

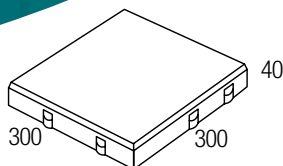


Sand

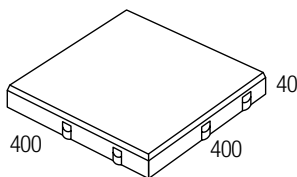
Esplanade™

This large, square format paving range features simple, clean lines to enhance everyday living.

Recommended for:
Pedestrian (paths, patios, courtyards).



300 Standard
11.1 units per m². Charcoal and Sand only.



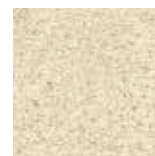
400 Standard
6.25 units per m²



Charcoal



Ginger



Sand



Terracotta

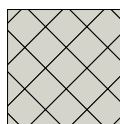


Platinum

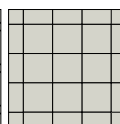


Cocoa

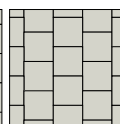
Patterns



Stacked bond 45°



Stacked bond 90°



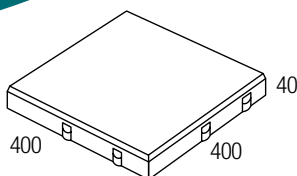
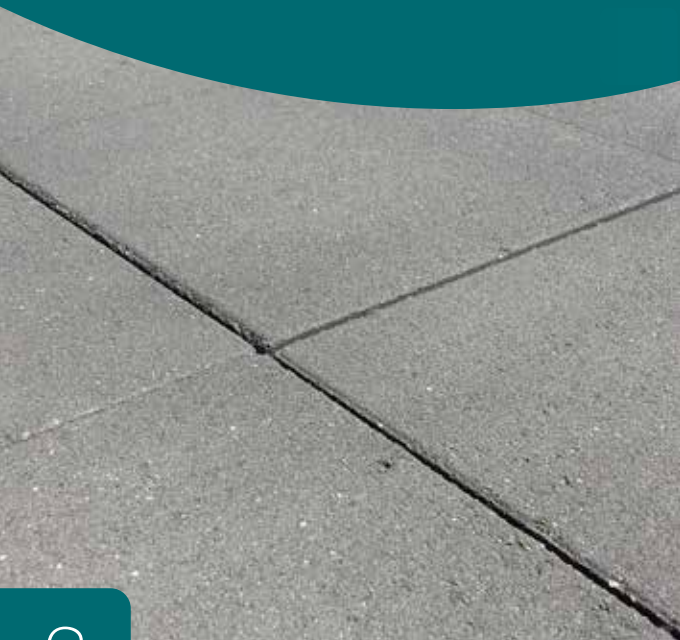
Stretcher Bond

Esplanade™ Premium

NEW

This large format, lightly shot-blast paver, has an exposed aggregate finish. Lightly textured for supreme character, Esplanade® Premium sits perfectly at home in a rustic or contemporary setting.

Recommended for:
Pedestrian (paths, patios, courtyards).



400 Premium
6.25 units per m²



Charcoal



Ginger



Sand



Terracotta

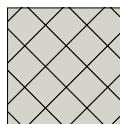


Platinum

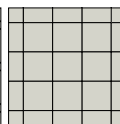


Cocoa

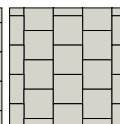
Patterns



Stacked bond 45°



Stacked bond 90°



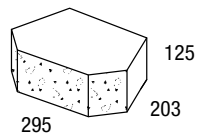
Stretcher Bond

Gardenwall®

A versatile wall with a straight and curved splitface suitable for both straight and curved walls, this is a simple system to install where one block fits all.

Recommended for:

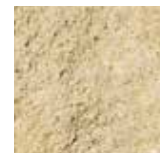
- Max. wall height 1000mm
- Straight walls ✓
- Curved walls ✓ (standard & soft split only)



Standard unit

Colours available:

- Charcoal
- Light Sands
- Sand
- Ginger



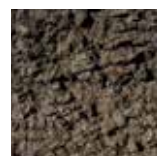
Sand



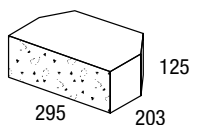
Portstone



Light Sands



Cocoa



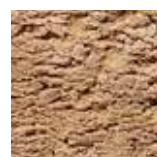
Flushface unit

Colours available:

- Charcoal
- Light Sands
- Sand
- Ginger

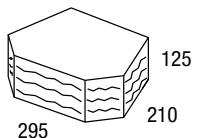


Charcoal



Paperbark

NEW



Soft Split unit

Colours available:

- Cocoa
- Paperbark
- Charcoal
- Portstone

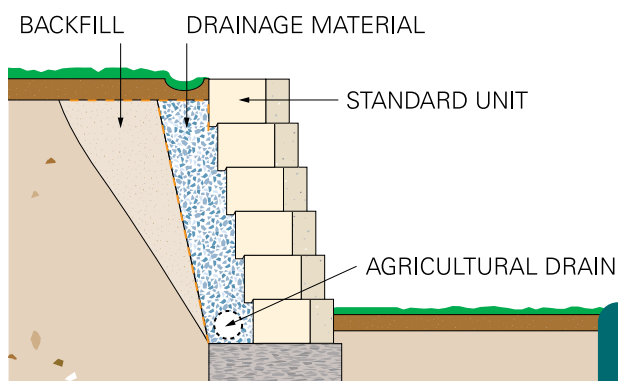


Ginger



Typical cross section

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

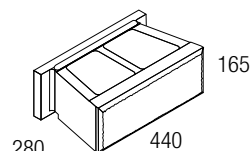


Modernstone™

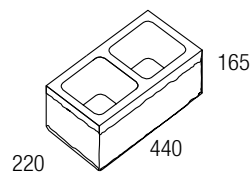
This refined range with a sharp splitface is ideal for creating smart contemporary lines. Practical and easy to install, this highly adaptable range can be used for curves, corners and steps.

Recommended for:

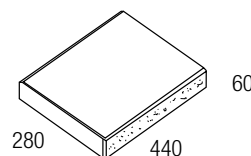
- Max. wall height 1050mm (with cap) ✓
- Straight walls ✓
- Curved walls ✓
- Corners ✓
- Steps ✓



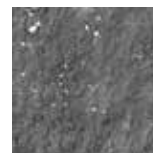
Standard unit



Corner unit



Classic cap



Charcoal



Light Sands



Portstone

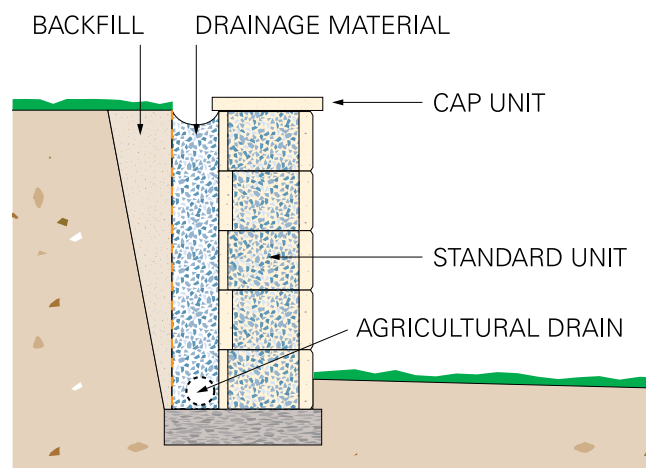


Cafe creme



Typical cross section

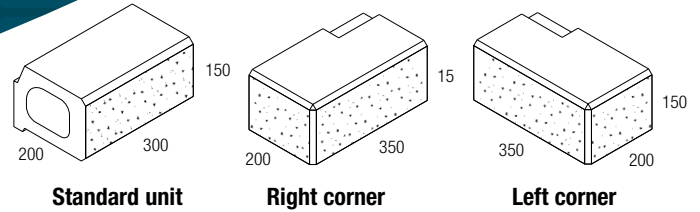
Please note: Backfill should be no higher than the top of the retaining wall.



Linearwall™

Linearwall™ ticks all the right boxes – it's lightweight, cost-effective and hassle-free.

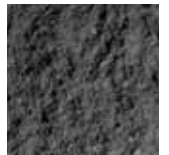
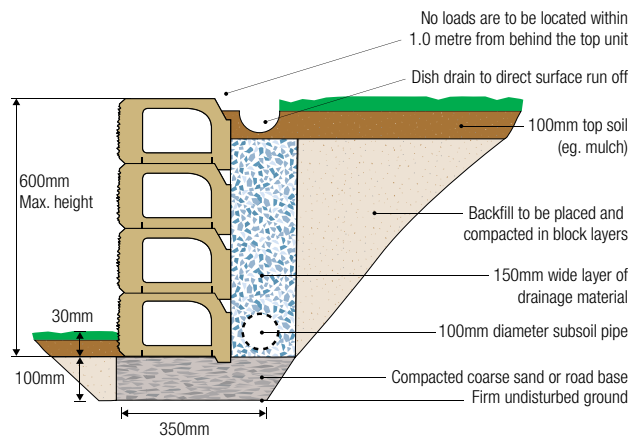
Recommended for:
 Max. wall height 600m
 Straight walls ✓
 Corner ✓
 Steps ✓



Note: corner units sold as a set of 2. 1 x small left corner and 1 x right corner.

Typical cross section

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



Charcoal



Fudge

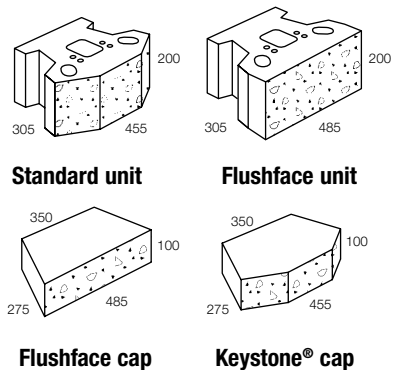


Nougat

Keystone®

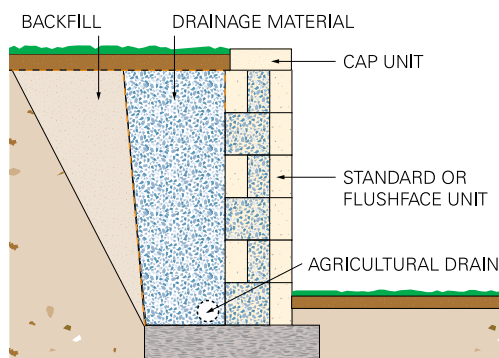
A strong and secure walling option, available in both flushface and curved splitface, it features a unique interlocking pin system and is best suited to professionally designed walls up to 12m high.

Recommended for:
 Max. wall height 12m +
 Straight walls ✓
 Corner ✓
 Steps ✓



Typical cross section

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



Parchment



Desert Sand



Charcoal



How to choose pavers



Step 1

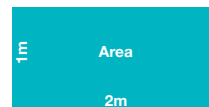
Look through this brochure to gather ideas on the look you want to achieve.

Step 2

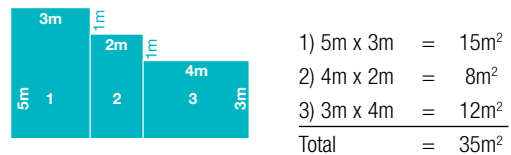
Use the table below find the paver that is recommended for your particular need.

Step 3

Measure your area to be paved to determine quantity of pavers required. This area is simply calculated by length (m) x width (m) = area (m²) for basic square or rectangular spaces (m= metres).



For odd shapes, break your area into sections.



For triangular areas:



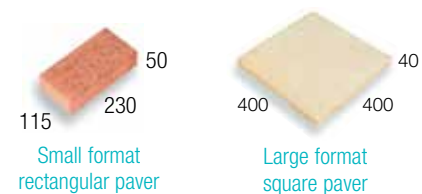
$$1/2 \times \text{base (m)} \times \text{height (m)} = \text{area (m}^2\text{)}$$

e.g. $1/2 \times 4\text{m} \times 3\text{m} = 6\text{m}^2$

(Allow up to 10% extra pavers for wastage such as cuts and breakages.)

Step 4

Select the paver size you prefer. Large format pavers are larger than or equal to 300mm (length) x 300mm (width) and small format pavers are less than 300mm x 300mm.



Your choice will depend on the look you wish to achieve as per Step 1.

Step 5

Select a colour that complements your area, home and surroundings.



Step 6

Choose to D.I.Y. or hire a professional contractor. Refer to page 8 for a basic guide to laying pavers.

This is general information and should be viewed as a guide only National Masonry urges you to ensure that you obtain appropriate professional advice tailored to your circumstances before commencing paving projects.

General Tips

Tip 1

Select pavers that match internal floor coverings to ensure the transition from indoor out is subtle and blends with your decorating style.

Tip 2

Combining large and small format pavers can add textural qualities for a more distinctive space.

Tip 3

Paving joint mortar saves time, effort and water and is ideal for applying a permanent, rigid joint more than 5mm wide and a minimum 25mm deep on all types of paving.

Tip 4

When paving a small space keep the design simple and use a neutral coloured, large format paver to create a sense of space.

Tip 5

National Masonry recommends that concrete pavers be sealed with a quality penetrating sealer following installation.

Basic guide to laying pavers

Find detailed information and download more guides at our website - www.nationalmasonry.com.au



Prepare the site

Excavate the area to be paved to allow for the base layer (generally 100 -150mm thick of road base), bedding Sand (generally 30mm thick coarse washed river Sand) and the paver thickness. Establish falls and level using a spirit level on the screed board. Spread the road base to an even thickness and compact using a mechanical plate compactor.



Add the bedding Sand

Place screed rails on road base and spread bedding Sand roughly between and over the rails – keep the rails. The easiest way to screed Sand is to use two guides (screed rails) and a screeding board (e.g. a flat piece of timber). Establish bedding tracks with the screeding board.



Level the surface

Bed the screed rails into the bedding Sand. Drag the screeding board in a sawing motion from side to side across the rails to create a firm, flat laying surface. Remove the rails, fill in the voids with bedding Sand and trowel smooth.



Set the lines

Set string lines at right angles to establish paving lines. These will help keep the joints straight for that truly professional look.



Begin the laying

Start laying along the longest straight edge of the designated area and lay whole pavers first. Leave 3-5mm between pavers to allow for jointing Sand (unless the pavers have nibs).



Cut pavers

Cut and position part-pavers if the job requires them. Edge restraints prevent the pavers from moving.



Fill the joints

Sweep jointing Sand over the finished dry paving, ensuring that all joints are full.

Sand filled joints:

Pavers 50mm thick or greater surface to be plate compacted. Always remember to use a rubber mat or carpet beneath the plate compactor to prevent damage to the pavers. b) Pavers 40mm thick or less – surface to be hand compacted with a rubber mallet.

Caring for your pavers - prevention is better than cure

- Sweep regularly with a stiff bristled broom to keep pavers free from debris.
- For maximum protection we suggest pavers are sealed after installation with a penetrating sealer. Please check with a reputable sealing company for advice.
- Seal pavers with a penetrating sealer before grouting to avoid grout smears.
- Re-seal pavers as required paying extra attention to heavy wear areas and salt-water locations.
- During construction, cover the paved areas to protect against damage.
- Protect your pavers against possible staining from mortar, oxides, cement and rust.
- Do not use acid to clean pavers.
- Do not use high pressure cleaning apparatus to clean pavers.
- In all cases, attempt to clean a stain before it hardens or dries.

If a stain occurs, follow some simple steps:

- Assess type of stain carefully before taking action (incorrect assessment of stain can cause the stain to be more difficult to remove).
- If stain cannot be accurately assessed, conduct a trial process on a small portion of stained area to determine most appropriate action.
- Do not use acid to remove stains under any circumstances. Refer to the guide beside for some stain removal solutions.

Finishing touches

Sealing

National Masonry recommends that all pavers should be sealed with a quality penetrating sealer following installation. Please check with a qualified tradesperson for advice on this process. National Masonry does not accept liability for stained or damaged pavers.

** For Millstone pavers, National Masonry recommend a semi-penetrating sealing to aid gap sand adhesion.

This is general information and should be viewed as a guide only. National Masonry recommends you obtain professional building advice on your specific paving project.

PROBLEM	SUGGESTED CLEANING METHOD
Efflorescence* (White powdery deposit)	Use Environex Anti-EFF or equivalent as per manufactures recommendation.
Leaves, bark, algae, food and wine stains	Use 10 part water to 1 part bleach, then wash [^] down.
Chewing gum	Freeze with dry ice and remove with a spatula.
Ivy suckers	Apply a heat gun to the suckers until they go hard. Allow them to cool and dry, then scrub them off with a stiff bristled broom.

* Efflorescence occurs naturally in cement based products.

[^] Subject to water restrictions in your area.

How to choose a wall



General Tips

Tip 1

Save time and effort by selecting a DIY retaining wall system with pre-cut corner pieces and a smooth top – no need for capping – such as Linearwall™.







Tip 2

To create an outdoor room environment, use low-level retaining walls to build structure around paving – and it doubles as extra seating.

Tip 3

When creating a new space with retaining walls and paving, use contrasting colours and textures to give your home a stylish edge.



Page number	6	4	5	6
Product name	Linearwall™	Gardenwall®	Modernstone™	Keystone®**
Typical Applications				
Max. wall height (mm)*	600	1000	1050	12000
Straight walls	✓	✓	✓	✓
Curved walls	✗	✓	✓	✓
Corners	✓	✗	✓	✓
Steps	✓	✗	✓	✓
Flushface profile				
Angled face profile				
Natural slate profile				
Block face size	medium	medium	large	large

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

** Keystone® can be built up to 12m high when designed by a suitably qualified engineer and combined with soil reinforcement. Please contact your National Masonry representative for more information.

Step 1

Gather ideas on the look you want to achieve. Look through this brochure and our website - www.nationalmasonry.com.au.

Step 2

Use the table above to determine which retaining wall is most suitable for your particular application.

1. Determine the height you want to achieve.
2. Determine which design you want
 - do you want curves, corners or a straight wall?

Step 3

Select a colour that complements your area, home and surroundings such as other homes in your street.

Step 4

Choose to D.I.Y. or hire a contractor. Refer to page 10 for tips on installing a retaining wall.

‡ Please consult with regulating council for local design requirements prior to the construction of any retaining wall. Councils in general require that retaining walls be designed and certified by a suitably qualified engineer where the wall is over 0.5m in height and/or where there is a surcharge loading, such as a driveway, house or other structure near the wall.

This is general information and should be viewed as a guide only National Masonry recommends you obtain professional building and engineering advice on your specific retaining wall project.

Basic guide to wall building

Find detailed information and download more guides at our website - www.nationalmasonry.com.au



Locate your wall

Mark out the ground where your wall will be located (either by marking with stakes and a string line or by marking a line on the ground with spray paint). Excavate trench then compact roadbase into trench to form a levelling pad.



Prepare the site

Place blocks side by side on the levelling pad using a string line along the back of the units for alignment. Level each unit side to side and front to back using your spirit level. Spend time making sure the first course of units is level, otherwise all ensuing courses and ultimately the entire wall will not be level.



Backfill and compact

Install an agricultural drain 150mm diameter behind your first course and surround with gravel (12-20mm sized gravel, e.g. blue metal). Shovel and compact your backfill (existing site soil) behind the drainage material. (Backfill consisting of heavy clays or organic soils is not recommended due to water holding properties).



Additional courses

Sweep the top of the previous course clean. Place the next course of units in a running bond pattern (i.e. with the vertical joints from the first course units halfway across the second course units). Pull each unit forward until it locks with the nib on the unit below. Place the drainage material behind the second course of units. Stack units, placing drainage material and compact backfill for each block height layer until your wall is complete.



Fixing capping units

Place capping units, if required, on the top course. It is recommended that caps be secured using a construction adhesive such as liquid nails®. Some capping may require the removal of nibs from the top course of blocks.



National Masonry product	Maximum wall height
Linearwall™	600mm
Modernstone™	1050mm
Gardenwall®	1000mm
Keystone™	12000mm*

This is general information and should be viewed as a guide only. National Masonry recommends you obtain professional building and engineering advice on your specific retaining wall project.

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

* Keystone® can be built up to 12m high when designed by a suitably qualified engineer and combined with soil reinforcement. Please contact your National Masonry representative for more information.

Note:

Please consult with regulating council for local design requirements prior to the construction of any retaining wall. Councils in general require that retaining walls be designed and certified by a suitably qualified engineer where the wall is over 0.5m in height and/or where there is a surcharge loading, such as a driveway, house or other structure near the wall.



South Queensland

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Wacol

Brisbane Qld 4076

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Fax: (07) 3271 1815

North Queensland

6 David Muir Street,
Slade Point

Mackay Qld 4740

Phone: (07) 4955 1155
Fax: (07) 4955 4130

Gold Coast

663 Pine Ridge Road,
Biggera Waters

Gold Coast Qld 4216

Phone: (07) 5552 3300
Fax: (07) 5552 3399

Victoria

Riding Boundary Road,
Deer Park

Melbourne Vic 3023

Phone: (03) 9361 6400
Fax: (03) 9363 6008

To find your closest **National Masonry** stockist,
to receive brochures or to learn more about our products,
call **3271 9292** or visit our website at **www.nationalmasonry.com.au**

Colour variations occur from batch to batch. Colours shown are indicative only and should not be used for final selection. Products ordered should be chosen from actual samples current at the time of order and are subject to availability. Photographs in this brochure are only representative of National Masonry products and the appearance and effect that may be achieved by their use. Samples, brochures and displays should be viewed as a guide only. Customers should ensure all delivered products are acceptable, and any concerns about products are made prior to laying. All prices are subject to availability and can be withdrawn or varied without notice.

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National Masonry Ltd ABN 94 155 064 136. Correct as at January 2013.