

Landscape Product Guide

VICTORIA



Inspired Creations



Picture depicts split face blocks

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 your project is large or small, National Masonry's range of inspirational, durable, textured paving will create a distinctive design to bring individuality and character to your project. 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 residential walling to commercial products, National Masonry's range of walling products offer a complete solution that can overcome even the most challenging sites. 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.

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Pavers

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Retaining Walls

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Sorrento Stone™

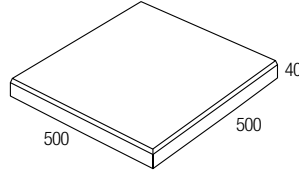
NEW

Coastally Inspired, "Sorrento" Stone looks like its sounds - richly textured for less slip resistance resulting in a stunning ground effect that will turn heads.

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



*These pavers are not suitable for driveways unless adhered to a suitable concrete slab with an approved adhesive or wet bed method.



Standard
4 units per m².



Bluestone



Mist



Sandstone



Millstone™

NEW

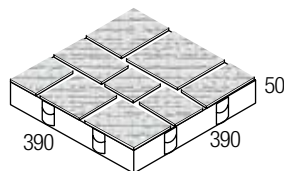
Millstone brings a touch of class to any outdoor area with its beautiful natural slate look whilst ensuring installation is both quick and simple

Recommended for:

Pedestrian (paths, patios, courtyards).



Exposure Grade



3 Patterns supplied randomly
6.57 units per m².



Charcoal



Sandstone
(Blended Colour)



Sunburnt
(Blended Colour)

Esplanade™

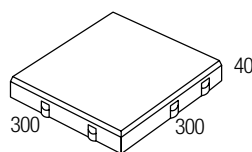
This large, square format paving range features simple, clean lines to enhance everyday living.

Recommended for:

Pedestrian (paths, patios, courtyards).



Exposure Grade



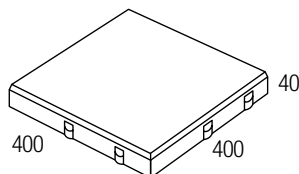
300 Standard
11.1 units per m². Charcoal and Sand only.



Charcoal



Ginger



400 Standard
6.25 units per m²



Sand



Terracotta



Vanilla



Cocoa

Arenapave & Urbanpave™

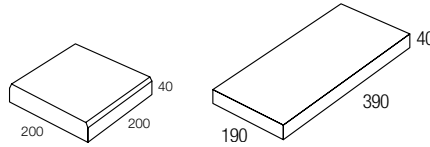
Standard small format pavers are a practical, affordable, and versatile choice offering easy installation and maintenance

Recommended for:

Pedestrian (paths, patios, courtyards) and Driveways. Urbanpave only suitable for driveways.

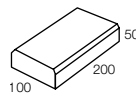


General Purpose



Arenapave™ 200/40
2 bevel
25 units per m²

Arenapave™ 190/40
Square edge
13.5 units per m²



Urbanpave™
2 bevel
50 units per m²



Charcoal



Clinker Red



Sahara



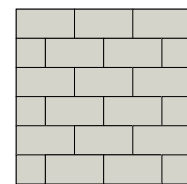
Sandune



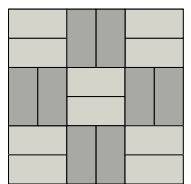
Warmstone

Note: Clinker Red only available in Arenapave 200x200

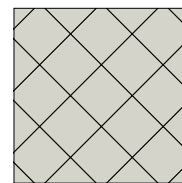
Patterns



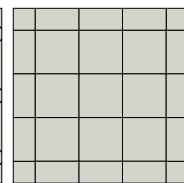
Stretcher Bond



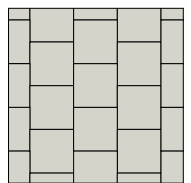
Basketweave



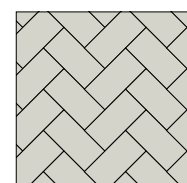
Stacked bond 45°



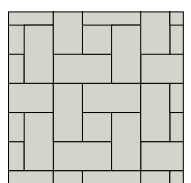
Stacked bond 90°



Stretcher Bond



Herringbone 45°

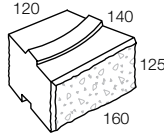
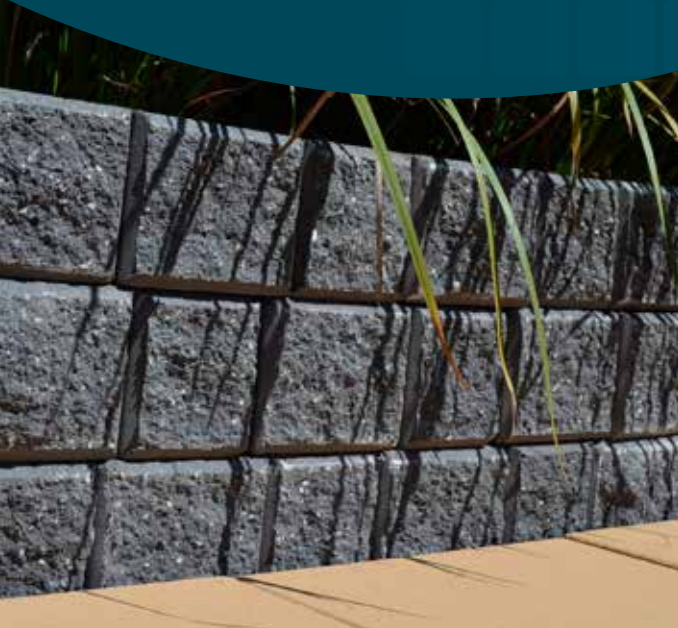


Herringbone 90°

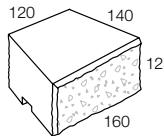
National Masonry recommends that even pre-sealed pavers be resealed with a quality penetrating sealer following installation.

Borderstone™

This easy to handle interlocking system is small and light. With an adaptable double sided wall and a steep framed splitface, it provides a vertical face for low use walls or garden edging.



Standard unit
50 units per m²



Cap unit
7.14 units per Lmtr

Recommended for:

Max. wall height	375mm
Straight walls	✓
Curved walls	✓



Charcoal



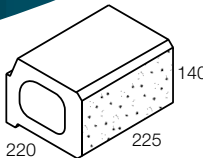
Sand



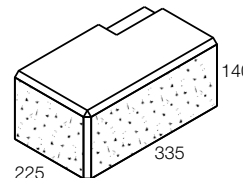
Sandstone Blend

Linearwall™

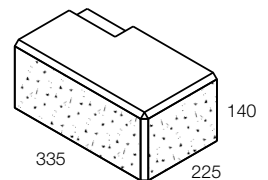
Linearwall™ ticks all the right boxes – it's lightweight, cost-effective and hassle-free



Standard unit



Right corner



Left corner

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

Recommended for:

Max. wall height	600mm
Straight walls	✓
Corner	✓
Steps	✓



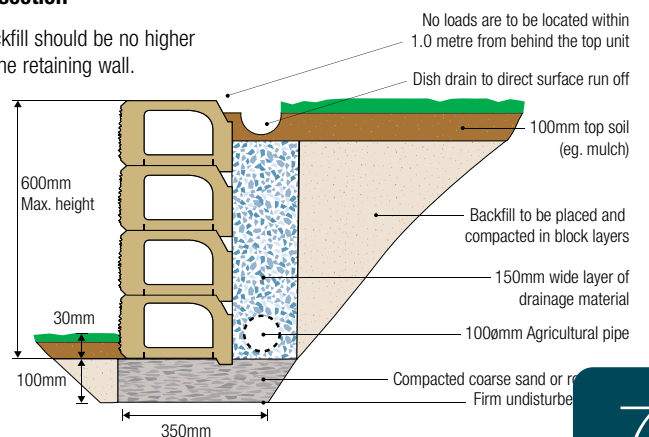
Nougat



Fudge

Typical cross section

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

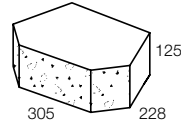


Gardenwall®

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	✓



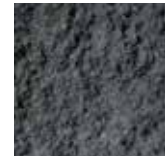
Standard unit



Hawkesbury Yellow



Portstone



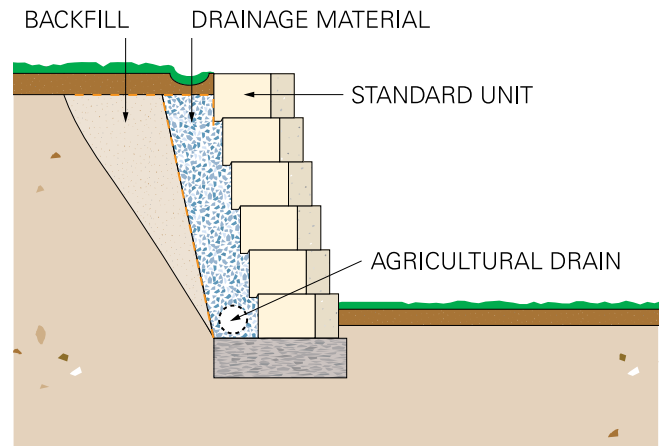
Charcoal



Paperbark

Typical cross section

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

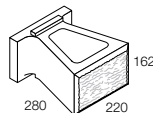


Modernstone™

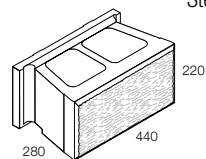
This refined range with a sharp splitface is ideal for creating smart contemporary lines. Practical and easy to install, this highly adaptable range can be used for curves, corners and steps



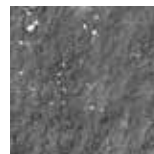
Recommended for:
 Max. wall height 990mm
 Straight walls ✓
 Curved walls ✓
 Corners ✓
 Steps ✓



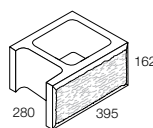
Standard Unit



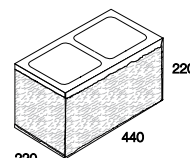
Regal unit



Charcoal



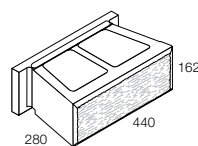
Corner unit



Regal Corner Unit



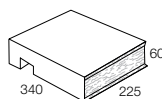
Hawkesbury Yellow



Grande unit



Portstone

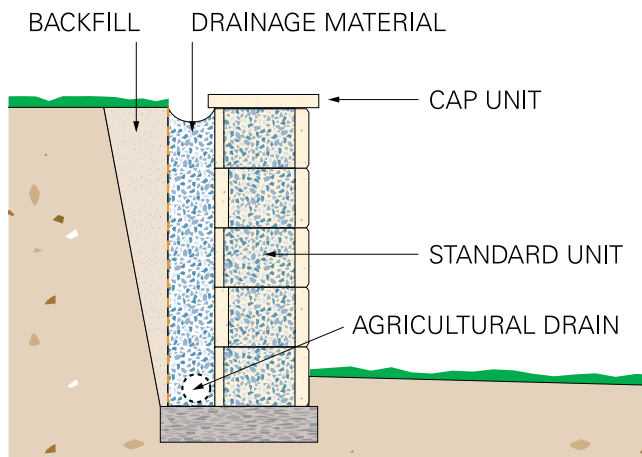


Standard Cap















Note: Modernstone™ Regal is only available in Charcoal and Hawkesbury Yellow

Typical cross section

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














Pavers

Type	Colour selection	Application	No per tonne	Units per sq metre	Units per pallet	Weight per unit (kg)
Sorrento Stone™						
500x500x40 	Bluestone, Mist, Sandstone		55	4	48	18
Millstone™						
3 Patterns supplied randomly 	Charcoal, Sandstone (Blended Colour), Sunburnt (Blended Colour)		64	6.57	90	15.7
Esplanade™						
300 Standard 	Charcoal, Sand (formerly Sahara)		130	11.1	192	7.7
400 Standard 	Charcoal, Cocoa, Ginger (formerly Nutmeg), Sand (formerly Sahara), Terracotta, Vanilla		74	6.25	108	13.5
Urbanpave™						
200x100x50 (2 bevel) 	Charcoal, Sandune, Warmstone, Sahara		455	50	750	2.2
Arenapave™						
200x200x40 (2 bevel) 	Charcoal, Clinker Red, Warmstone, Sahara, Sandune		285	25	450	3.5
190x390x40 (square edge) 	Charcoal, Warmstone, Sahara, Sandune		137	13.5	216	7.3



Retaining Walls

Type	Colour selection	Max Wall Height	No per tonne	Units per sq metre	Units per pallet	Weight per unit (kg)
Linearwall™						
Standard Unit 	Fudge, Nougat,	600mm (4 courses)	99	32.4	160	10.1
Corner Unit Left or Right 	Fudge, Nougat,		45	-	60	22.20
Gardenwall®						
Standard Unit 	Paperbark, Portstone, Charcoal, Hawkesbury Yellow	1000mm (8 courses)	71	26.3	120	14.2
Borderstone™						
Standard Unit 	Charcoal, Hawkesbury Yellow, Sandstone Blend	375mm 2 units plus cap	200	50	245	5
Standard Cap 	Charcoal, Hawkesbury Yellow, Sandstone Blend		-	7.14 (per lineal metre)	245	5

Type	Colour selection	Max Wall Height	No per tonne	Units per sq metre	Units per pallet	Weight per unit (kg)
Modernstone®						
Standard Unit 	Charcoal, Hawkesbury Yellow, Portstone	972.6mm 6 units plus caps	81	28	100	12.4
Standard Corner Unit 	Charcoal, Hawkesbury Yellow, Portstone		51	-	32	19.6
Grande Unit 	Charcoal, Hawkesbury Yellow, Portstone		47	14	40	21.2
Split Face Cap 	Charcoal, Hawkesbury Yellow, Portstone		88	4.44 (per lineal metre)	120	11.3
Regal Unit 	Charcoal, Hawkesbury Yellow	1000mm 6 units plus caps	33	10.3	32	30
Regal Corner Unit 	Charcoal, Hawkesbury Yellow		33	-	32	30



How to choose pavers



Step 1

Gather ideas on the look you want to achieve. Ask National Masonry or one of their agents for further assistance and advice.

Step 2

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).



$$1\text{m} \times 2\text{m} = 2\text{m}^2$$

For odd shapes, break your area into sections.



$$\begin{aligned} 1) 5\text{m} \times 3\text{m} &= 15\text{m}^2 \\ 2) 4\text{m} \times 2\text{m} &= 8\text{m}^2 \\ 3) 3\text{m} \times 4\text{m} &= 12\text{m}^2 \\ \hline \text{Total} &= 35\text{m}^2 \end{aligned}$$

For triangular areas:



$$\begin{aligned} 1/2 \times \text{base (m)} \times \text{height (m)} &= \text{area (m}^2\text{)} \\ \text{e.g. } 1/2 \times 4\text{m} \times 3\text{m} &= 6\text{m}^2 \end{aligned}$$

(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 13 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 stabilised crushed rock), 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 stabilised crushed rock to an even thickness and compact using a mechanical plate compactor.



Add the bedding Sand

Place screed rails on stabilised crushed rock 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.

* For Heavy Applications of paving such as crossings or driveways please refer to cmaa.com.au/paving for further information.

Sealing

National Masonry recommends that all pavers should be sealed with a quality penetrating sealer following installation. Please check with a qualified trades person 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.

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.

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 hose^ 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



Page number	7	7	8	9	9	9
Product name	Borderstone™	Linearwall™	Gardenwall®	Modernstone™	Modernstone Grande™	Modernstone Regal™
Typical Applications						
Max. wall height (mm)*	375	600	1000	972	972	1000
Straight walls	✓	✓	✓	✓	✓	✓
Curved walls	✓	✗	✓	✓	✓	✓
Corners	✗	✓	✗	✓	✓	✓
Straight Face						
Curved Face						
Block face size	small	medium	medium	medium	large	large

General Tips

Tip 1

Save time and effort by selecting a DIY retaining wall system with manufactured corner units 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.



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. Contact National Masonry or your local agent for Professionals in your local area.

‡ 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 1000mm 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.

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

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
Borderstone™	375mm
Linearwall™	600mm
Modernstone™	990mm
Modernstone™ Regal	1000mm
Gardenwall®	1000mm

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).

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 1000mm in height and/or where there is a surcharge loading, such as a driveway, house or other structure near the wall.



To find your closest **National Masonry** stockist,
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Enquiries also welcome at melbourne.sales@nationalmasonry.com.au

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