BORAL PAVERS AND RETAINING WALLS
Build something great™

YOUR LANDSCAPING GUIDE

OCTOBER **2013**

welcome to pavers & retaining walls

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coast® in driftwood.

hadrian wall® curved

Catering to a range of design schemes, Boral'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, Boral's range will inspire and stimulate ideas to make your outdoor design dream a reality.

bradstone® in gironde

Front cover image: aspenstone® in buttermilk.

aspenstone® in cappuccino

how to choose pavers

step 1

Look through this brochure, lifestyle magazines and on-line to gather ideas on the look you want to achieve. Try **www.boralsampler.com.au**, a great new tool for selecting Boral products and colours.

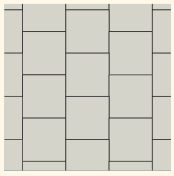
step 2

Using the table on the right hand page, choose a style and size of paver to suit your needs. Boral offers large format pavers which are equal to or greater than 300mm (length) x 300mm (width).

step 3

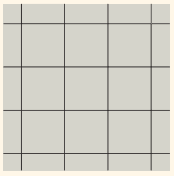
Select a colour that complements your area, home and surroundings. Remember to try the Boral Sampler to give you an idea of how colours look together. The way you lay the pavers also affects the overall aesthetic.

Pattern for square pavers include:



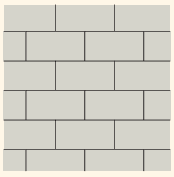
STRETCHER BOND

STACKED BOND 45°

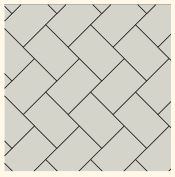


STACKED BOND 90°

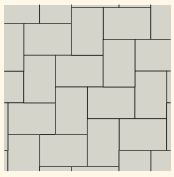
For rectangular pavers:



STRETCHER BOND



HERRINGBONE 45°



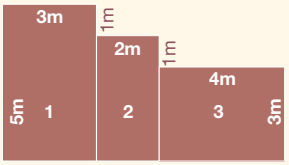
HERRINGBONE 90°

step 4

Measure your area to be paved to determine quantity of pavers required.

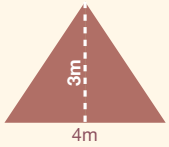
This area is simply calculated by length (m) x width (m) = area (m^2) for basic square or rectangular spaces (m = metres).

For odd shapes, break your area into sections.



1) 5m x 3m = $15m^2$
2) 4m x 2m = $8m^2$
3) 3m x 4m = $12m^2$
Total = $35m^2$

For triangular areas:

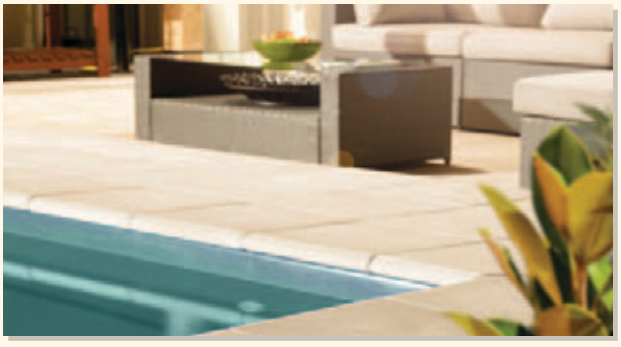


1/2 x base (m) x height (m) = area (m^2)
e.g. 1/2 x 4m x 3m = $6m^2$
(Allow up to 10% extra pavers for wastage such as cuts and breakages.)

You can also measure your area using our on-line calculator. Go to **www.boral.com.au/pavingcalc**

step 5

Choose to DIY, or hire a professional contractor.
Refer to Page 18 for a basic guide to laying pavers.
A more comprehensive "Boral Guide to Laying Pavers" as well as videos are available at:
www.boral.com.au/landscaping
Stockists can also be found at this website.



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

general tips

- Always look at pavers outside in the natural light.
- Select pavers that match internal floor coverings to ensure the transition from indoor out is subtle and blends with your decorating style.
- When paving a small space keep the design simple and use a neutral coloured, large format paver to create a sense of space.
- Large format pavers, such as Aspenstone® and Stoneworks™ Travertine, speed up the laying process.
- Having trouble growing grass in heavy traffic areas? Consider a paved garden path. Paved paths also help direct traffic and can reduce the amount of dirt carried into your home.
- To make a path appear more substantial, use a stretcher bond laying pattern across the width of the path.
- If paving a slope, it is important to start at the bottom and pave up the slope.
- Paved areas should fall away from buildings and towards areas where run-off can be absorbed by plants.
- Keep labour cost down by clearing the area first by removing grass and existing pavers, and potting any plants you want to keep.
- Boral recommends that concrete pavers be sealed with a quality penetrating sealer following installation.

Page number	06	07	08	10	10	12	13	14	16
Product name	**Aspenstone®**	**Stoneworks™** Travertine	**Stoneworks™**	**Bradstone®** Cobbles	**Bradstone®** Oldtown	**Abode®**	**Coast®**	**Stylestone™**	**Terrazinni™**
Typical applications									
Pedestrian (paths, patios, courtyards)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pools	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bullnose (for steps and pool surrounds)	✓	✓	✓	✓	✓	✓	✓	✓	
Pre-sealed*	✓	✓	✓	✓	✓	✓	✓	✓	
Paver shape	▬	■	■	▬	▮	■	■	■	▮
Paver size (L x W in mm)	600 x 400	500 x 500	400 x 400	450 x 300	600 x 300 450 x 300 300 x 300	450 x 450	400 x 400	400 x 400	400 x 400 600 x 400

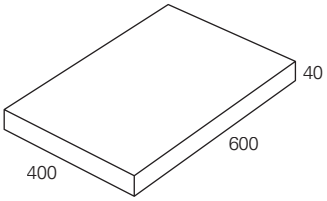
*Pre-sealed pavers: During the manufacturing process a fine mist of penetrative sealer is sprayed onto the pavers. This assists in minimising the short-term absorption of stains only. For maximum ongoing protection, Boral recommends that all pavers should be sealed with a quality penetrating sealer following installation. Please check with a qualified tradesperson for advice on this process. Boral does not accept liability for stained or damaged pavers.

aspenstone®

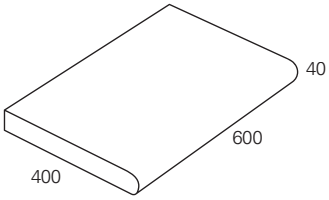
RECOMMENDED FOR:
PEDESTRIAN
POOLS
BULLNOSE

These pavers deliver a washed stone texture in three neutral colours and striking rectangular size.

aspenstone® in buttermilk



STANDARD
4.17 units per m^2



BULLNOSE
1.66 units per lineal metre

VANILLA

CAPPUCCINO

BUTTERMILK

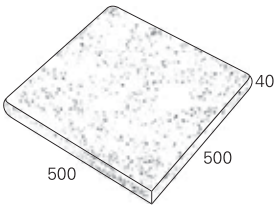
Shade variation can occur from batch to batch.

stoneworks™ travertine

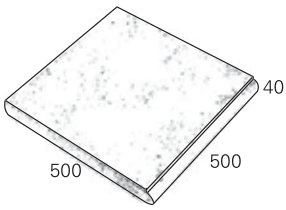
RECOMMENDED FOR:
PEDESTRIAN
POOLS
BULLNOSE

Emulate the naturally-aged appearance of stone in two modern tones.

stoneworks travertine™ in smoke



STANDARD
4 units per m^2



500 BULLNOSE
2 units per lineal metre

400 X 500 X 40MM BULLNOSE
Made to order

CHALK

SMOKE

Shade variation can occur from batch to batch.

stoneworks™

Give any outdoor area style and presence with the blended colours of Stoneworks™.

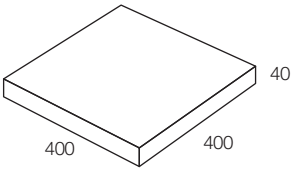
RECOMMENDED FOR:

PEDESTRIAN

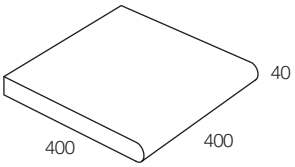
POOLS

BULLNOSE

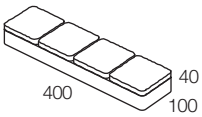
stoneworks™ in limestone



STONEWORKS STANDARD
6.25 units per m^2



STONEWORKS BULLNOSE
2.5 units per lineal metre



COBBLES
2.5 units per lineal metre
Tuscany only
Made to order

TUSCANY
Cobbles only
SA, QLD

SANDSTONE CUSTARD
VIC, SA

SANDSTONE MACADAMIA
NSW,^ QLD

SANDSTONE MOCHA
NSW,^ QLD

SANDSTONE CREAM
NSW,^ VIC, QLD

LIMESTONE
NSW,^ VIC, SA, QLD

^ In NSW, Stoneworks is sold through Amber Tiles stores only.

Shade variation can occur from batch to batch.

bradstone®

Revive the heritage of old world paving with a rustic style and aged appearance.

bradstone® old town in grey green

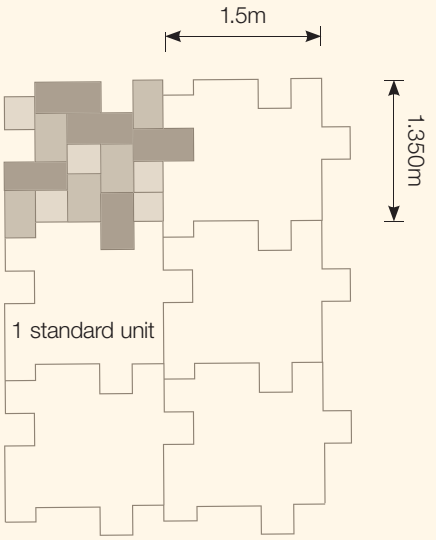
RECOMMENDED FOR:
PEDESTRIAN
POOLS
BULLNOSE

bradstone® old town random pattern

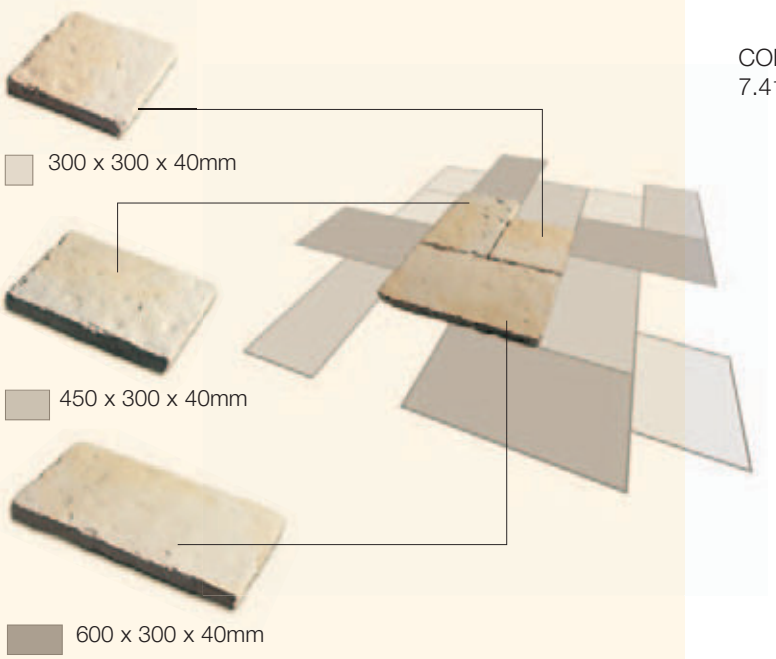
Bradstone® Old Town random pattern is comprised of three sizes.

300 x 300 x 40mm,
450 x 300 x 40mm and
600 x 300 x 40mm.
Sold in multiples of 6m² and 12m² packs, depending on the state.

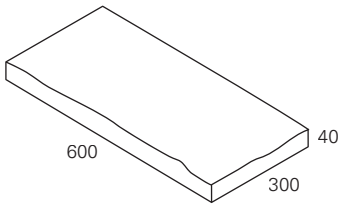
Also available, is a matching 450 x 300 x 40mm bullnose paver to provide a stunning finish to swimming pool edges and steps.



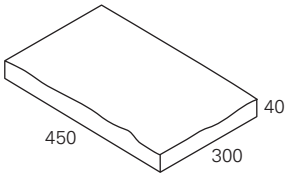
1 standard unit
12m² = 6 standard units = 1 pallet



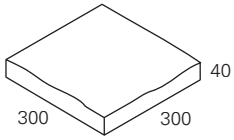
OLD TOWN RANDOM RANGE
Sold as a random set.*



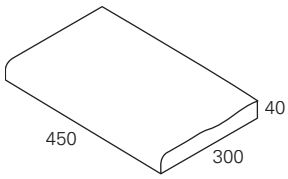
OLD TOWN – LARGE*



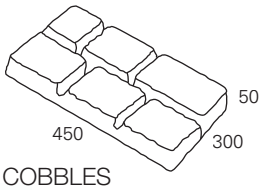
OLD TOWN – MEDIUM*
Also sold individually



OLD TOWN – SMALL*



OLD TOWN – BULLNOSE
2.2 units per lineal metre



COBBLES
7.41 units per m²

GREY GREEN

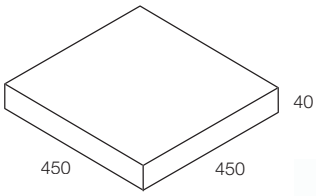
GIRONDE

Shade variation can occur from batch to batch.

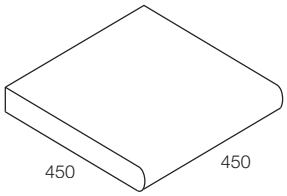
abode®

RECOMMENDED FOR:
PEDESTRIAN
POOLS
BULLNOSE

This contemporary range of pavers brings affordable style to alfresco settings.



STANDARD
4.94 units per m^2



450 BULLNOSE
2.22 units per lineal metre

400 X 450 X 40MM BULLNOSE
Made to order

CHARCOAL

LATTE

BISCOTTI

LINEN

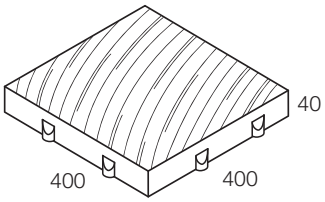
Shade variation can occur from batch to batch.

abode® in latte

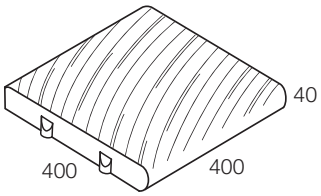
coast®

RECOMMENDED FOR:
PEDESTRIAN
POOLS
BULLNOSE

Blend the freshness of white sandy beaches and pale stone hues in your own backyard retreat.



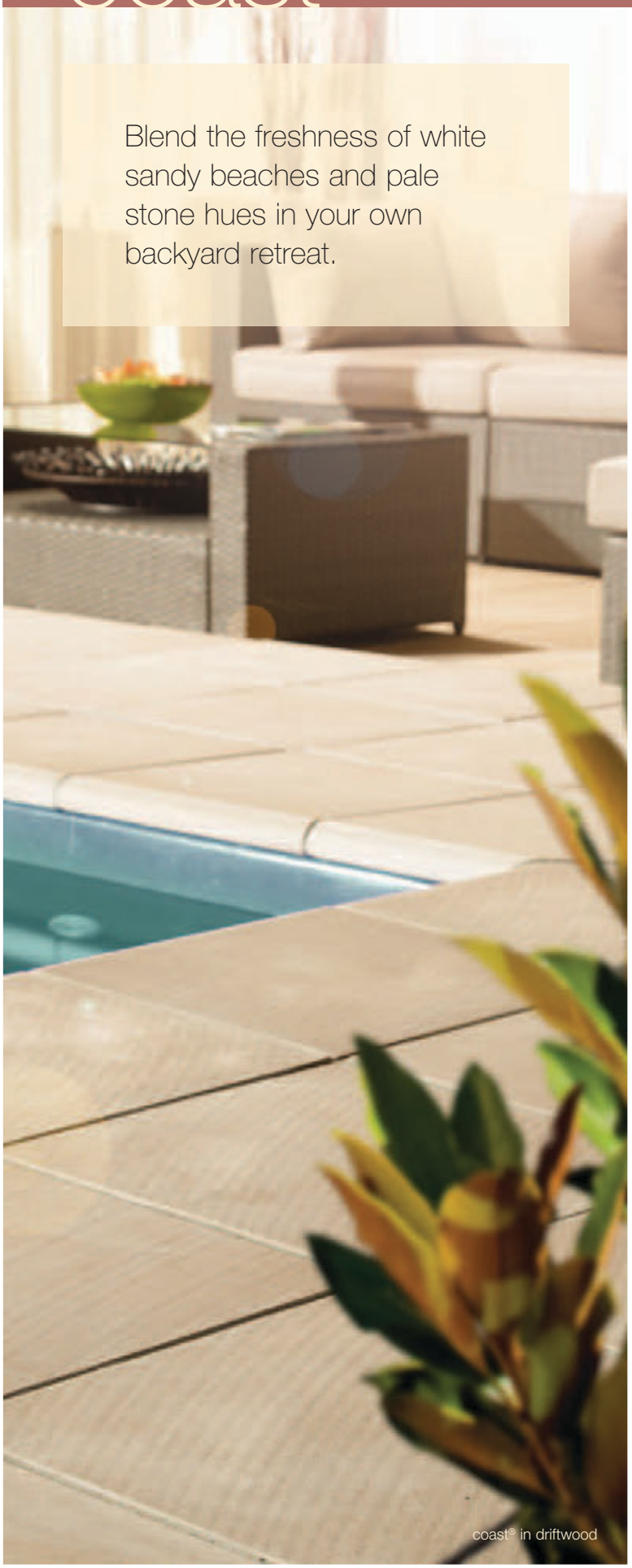
STANDARD
6.25 units per m^2



BULLNOSE
2.5 units per lineal metre

DRIFTWOOD

SHELL



coast® in driftwood

Shade variation can occur from batch to batch.

stylestone™

Infuse a modern look with a choice of a smooth face or slate textured paving.

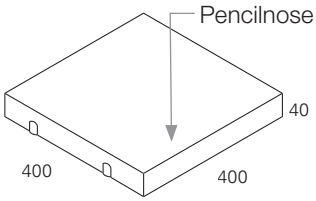
RECOMMENDED FOR:

PEDESTRIAN

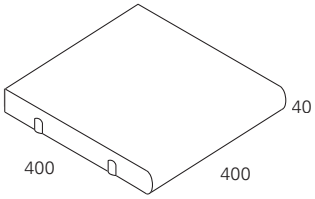
POOLS

BULLNOSE

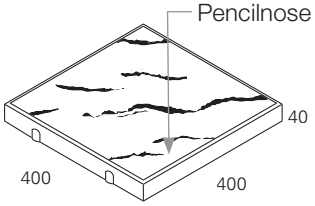
stylestone™ beach in sandstone



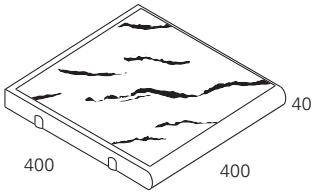
BEACH STANDARD (SQUARE EDGED)
6.25 units per m^2



BEACH BULLNOSE
2.5 units per lineal metre



QUARRY STANDARD
(SQUARE EDGED)
6.25 units per m^2



QUARRY BULLNOSE
2.5 units per lineal metre

Note: Standard units can be used as a square edged bullnose for steps and pool coping with Stylestone's pencilnose.

BEACH

SANDSTONE

SANDBANK

DUNE

QUARRY

SANDSTONE

SANDBANK

DUNE

Shade variation can occur from batch to batch.

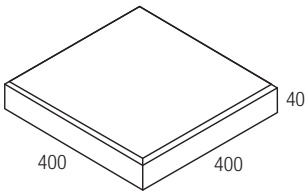
NEW

terrazinni™

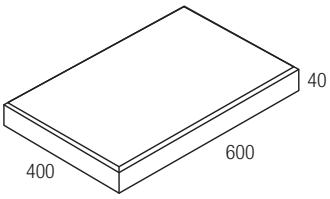
RECOMMENDED FOR:
PEDESTRIAN
POOLS

Inspired by European architecture, choose from a shot-blast or honed finish.

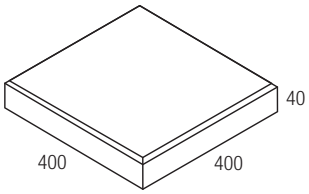
terrazinni™ shotblast 600 in charcoal



SHOTBLAST 400
6.25 units per m²



SHOTBLAST 600
4.17 units per m²



HONED
6.25 units per m²

SHOTBLAST

CHARCOAL

HONED

CHARCOAL

OFF WHITE
only in 600 X 400

Not available in Queensland.
Shade variation can occur from batch to batch.

hadrian wall™

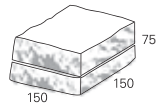
RECOMMENDED FOR:

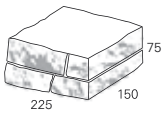
MAX. WALL HEIGHT 490MM
STRAIGHT WALLS
CURVED WALLS
CORNERS

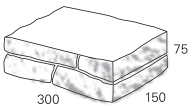
A classic look in true sandstone hues. Hadrian Wall™ can be used in straight and curved designs.

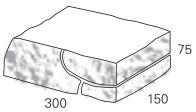
hadrian wall™ curved

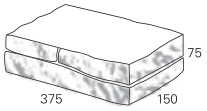
STRAIGHT WALL SET
sold in multiples of 2.5m²

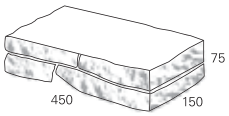




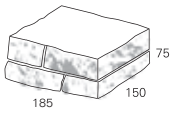


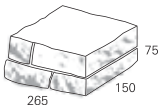


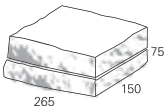


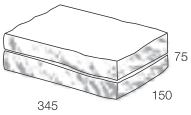


CURVED WALL SET
sold in multiples of 2.5m²

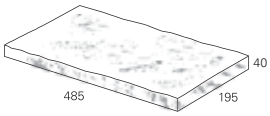




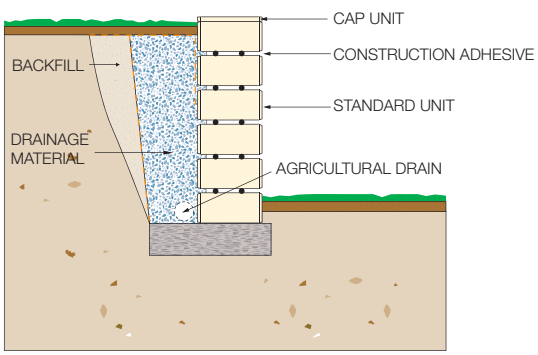




HADRIAN CAP
sold individually



GEO-FIX™
Get the look by using Geo-Fix™, a ready to use air curing joint filler for retaining wall faces.



TYPICAL CROSS SECTION

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

Not available in Victoria.

Shade variation can occur from batch to batch.

quick guide to laying pavers

01 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 levels using a spirit level on the screen board. Spread the road base to an even thickness and compact using a mechanical plate compactor.

02 add the bedding sand

Spread and screed the bedding sand. 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.

03 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.

04 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.

05 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).

06 cut pavers

Cut and position part-pavers if the job requires them. Edge restraints prevent the pavers from moving – refer to the “Boral Guide to Laying Pavers” for more details.

stoneworks™ in limestone

07 fill the joints

Sweep jointing sand over the finished dry paving, ensuring that all joints are full. As an alternative, use Geo-fix™, a ready-to-use joint mortar.

08 finishing touches

Compact the surface, add more jointing sand, sweep off excess and repeat.

sand filled joints:

a. 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.

Geo-fix™ mortar
Surface to be hand compacted with a rubber mallet prior to Geo-fix™ application.

caring for 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.)
- Re-seal pavers as required taking special care in 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.
- The use of acid and chemically-based cleaning agents should be undertaken by a professional. They can be hazardous if used incorrectly.
- In all cases, attempt to clean a stain before it hardens or dries up.

If a stain occurs, follow some simple steps:

1. Assess type of stain carefully before taking action (incorrect assessment of stain can cause the stain to be more difficult to remove).
2. If stain cannot be accurately assessed, conduct a trial process on a small portion of stained area to determine most appropriate action.
3. Utilise the guide below and on our website for some stain removal solutions. **www.boral.com.au/pavers**

stain removal solution examples

problem	suggested cleaning method
Efflorescence* (White powdery deposit)	Brush first with a stiff bristled broom. Then hose^ with clean water. Weathering will eventually stop this process from occurring.
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.

This information should be viewed as a guide only. The particular circumstances of paving projects vary significantly in ways that often dictate the use of particular materials and techniques to address challenges presented by those circumstances. Boral urges you to ensure that you obtain appropriate professional advice tailored to your circumstances before commencing paving projects.

contact us

To locate your nearest Boral stockist, to receive brochures or to learn more about our products, call **1300 134 002** or visit our website at: **boral.com.au/landscaping**

YOUR NEAREST RETAILER

Shade variations can occur from batch to batch. Colours shown are indicative only and should not be used for final selection. Not all colours are available in every region for each product. See your retailer for colours available in your region. 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 Boral products and the appearance and effect that may be achieved by their use. Some images are computer generated. Samples brochure 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. Boral recommends consultation with local council and engineers in the construction of retaining walls.

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