

adbri MASONRY

an ADBRI company



LANDSCAPE SOLUTIONS

Retaining Walls

SOUTH AUSTRALIA



Jason Hodges is Adbri's DIY landscaping expert. With over 20 years experience as a landscaper and more recently, an international award winning landscape designer.

I'm proud
to use Adbri's
range of quality
concrete products


JASON HODGES

Australia's Leading Masonry Manufacturer

Adbri produces an innovative range of architecturally inspired concrete products for use in all residential and commercial landscaping applications.

This premium range of concrete retaining walls and garden edging products are proven performers and can be used to enhance your home.

**Adbri has a retaining wall or garden edging solution
for every landscaping project.**

TABLE OF CONTENTS

Retaining Wall Selection Guide	4
Versastone®	6
Versawall®	8
Versasmooth®	10
Natural Impressions® Flagstone	12
Natural Impressions® Duostone	14
Allan Block® Junior	16
Allan Block® Aussie	18
Miniwall®	20
Wallstone® Grande	22
Windsor™ Stone	24
Lawn Edge	26
Torpedo™ Base Block	28
How to Build a Retaining Wall	31
General Step by Step Guide	32
Typical Installation Details	34

AUSTRALIAN MADE
MASONRY

QUALITY
CONCRETE PRODUCTS
BUILT TO LAST.

Your Retaining Wall Selection Guide

Look for these icons throughout the brochure



**Natural Impressions®
Flagstone**



Page 12

**Natural Impressions®
Duostone**



Page 14

Allan Block® Junior



Page 16

Miniwall®



Page 20



Versastone®



Page 6

Versawall®



Page 8

Versasmooth®



Page 10

Allan Block® Junior



Page 16



Versastone®



Page 6

Versawall®



Page 8

Versasmooth®



Page 10

Miniwall®



Page 20



Versastone®



Page 6

Versawall®



Page 8

Versasmooth®



Page 10

Allan Block® Junior



Page 16



**Natural Impressions®
Flagstone**



Page 12

**Natural Impressions®
Duostone**



Page 14

Allan Block® Junior



Page 16

Allan Block® Aussie



Page 18



**Natural Impressions®
Flagstone**



Page 12

**Natural Impressions®
Duostone**



Page 14

Miniwall®



Page 20

Windsor™ Stone



Page 24

It's important to select the right product for your project, to do the job once and to do it well.

DID YOU KNOW ...

All of Adbri Masonry's retaining wall products can be used to create a fire pit, however a minimum 500mm of clear distance between the flame and the rear of the block must be maintained at all times.



Windsor™ Stone



Page 24

Allan Block® Aussie



Page 18

Windsor™ Stone



Page 24

Wallstone® Grande



Page 22

Wallstone® Grande



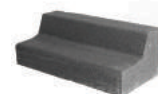
Page 22

Windsor™ Stone



Page 24

Lawn Edge



Page 26

Remember to check with local council for engineering requirements.



STEPS



ENGINEER FOR HIGHER WALLS



VERTICAL WALLS



SUITABLE WITH TORPEDO™



UNREINFORCED HEIGHT 600MM
MAX HEIGHT ENGINEERED 1200MM

Versastone®

These specialty blocks feature a premium, exposed aggregate surface texture which will enhance the visual appeal of your home and garden.



Ivory



Oatmeal



Steel



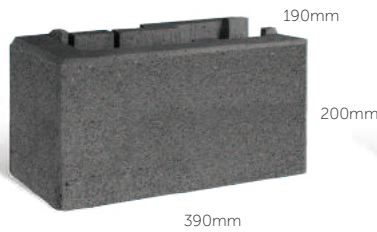
Charcoal

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.



Versastone® Standard Unit

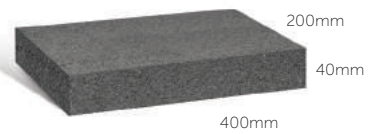
No. per m ²	12.5 units
Approx. Weight	15.60kg
No. per pallet	72



Versastone® Corner Unit

No. per m ²	-
Approx. Weight	17.50kg
No. per pallet	72 (36 Left, 36 Right)

Right corner shown.
Available in left and right hand units.



Versastone® Capping Unit

No. per l/m	2.5 units
Approx. Weight	6.27kg
No. per pallet	216

- ✓ DIY-friendly with specialty lugs and joints for easier stacking
- ✓ Space saving, vertical construction
- ✓ Specialty corner units and cap form a complete system
- ✓ Unique shot blast surface texture



TIP

To finish walls, remove lugs from top course with bolster and glue down capping unit.

Scan to watch how.

**Maximum Unreinforced Height - 600mm + cap (3 courses)
or up to 1200mm + cap (6 courses) with No Fines Concrete**

Consult your local council for all walls over 800mm in height





STEPS



ENGINEER FOR HIGHER WALLS



VERTICAL WALLS



SUITABLE WITH TORPEDO™



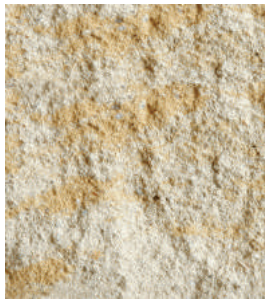
UNREINFORCED HEIGHT 800MM
MAX HEIGHT ENGINEERED 1400MM

Versawall®

The Versawall® system is a DIY dream with interlocking joints and stacking lugs making installation easier than ever before. Build vertical walls to 800mm without reinforcement or reach 1400mm high with engineering and No Fines Concrete.



Oatmeal



Bondi Blend



Sunstone

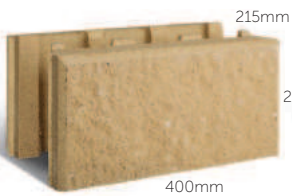


Charcoal



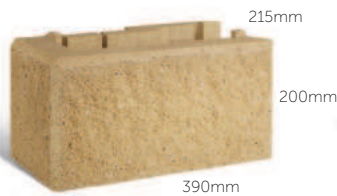
Port Blend

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.



Versawall® Standard Unit

No. per m² 12.5 units
Approx. Weight 20.75kg
No. per pallet 60



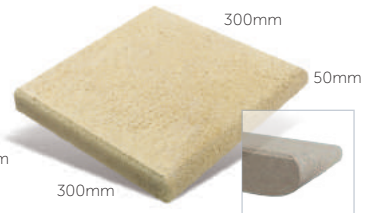
Versawall® Corner Unit

No. per m² -
Approx. Weight 21.8kg
No. per pallet 60 (30 Left, 30 Right)
Right corner shown.
Available in left and right hand units.



Versawall® Capping Unit

No. per l/m 3.3 units
Approx. Weight 8.5kg
No. per pallet 144



Stradapave® 50 Bullnose

For capping unit
(This product is made to order, lead times apply)
No. per L/m 3.30 units
Approx. Weight 7.51 kg
No. per pallet 192

- ✓ Traditional look with large rock face texture
- ✓ Specialty corner units and cap form a complete system
- ✓ Space saving, vertical construction
- ✓ DIY-friendly with lugs and joints for easier stacking



TIP

To finish walls, remove lugs from top course with bolster and glue down capping unit.

Scan to watch how.

**Maximum Unreinforced Height - 800mm + cap (4 courses)
or up to 1400mm + cap (7 courses) with No Fines Concrete**

Consult your local council for all walls over 800mm in height





STEPS



ENGINEER FOR HIGHER WALLS



VERTICAL WALLS



SUITABLE WITH TORPEDO™



UNREINFORCED HEIGHT 600MM
MAX HEIGHT ENGINEERED 1200MM

Versasmooth®

Versasmooth® blocks are DIY-friendly and perfect for creating contemporary garden walls with a modern, smooth face on each block.



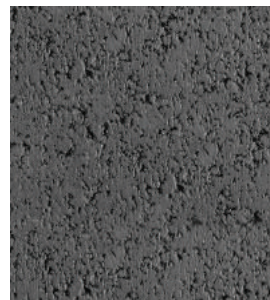
Ivory



Oatmeal

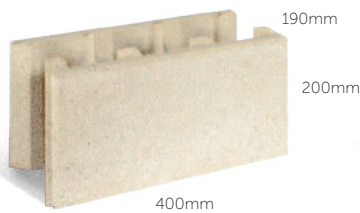


Steel

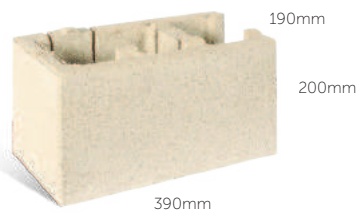


Charcoal

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.

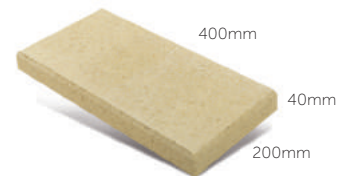


Versasmooth® Standard Unit	
No. per m ²	12.5 units
Approx. Weight	15.5kg
No. per pallet	72



Versasmooth® Corner Unit	
No. per m ²	-
Approx. Weight	17.5kg
No. per pallet	72 (36 Left, 36 Right)

Right corner shown.
Available in left and right hand units.



Havenslab® 40	
For capping unit	
No. per L/m	12.5 units
Approx. Weight	7.04kg
No. per pallet	216

- ✓ Budget friendly with smooth, render-look surface texture
- ✓ Space saving, vertical construction
- ✓ Specialty corner units and cap form a complete DIY system
- ✓ Great for garden and retaining walls, corners, stairs and seating walls



TIP

To finish walls, remove lugs from top course with bolster and glue down capping unit.

Scan to watch how.

Maximum Unreinforced Height - 600mm + cap (3 courses)
or up to 1200mm + cap (6 courses) with No Fines Concrete
Consult your local council for all walls over 800mm in height





CREATE CURVES



GARDEN EDGING



SETBACK WALLS



SUITABLE WITH TORPEDO™



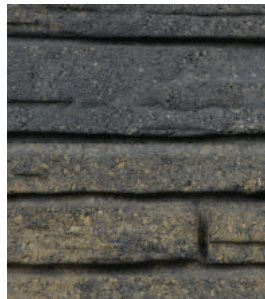
UNREINFORCED HEIGHT 700MM
MAX HEIGHT ENGINEERED 1500MM

Natural Impressions® Flagstone

These premium garden wall blocks replicate the beautiful look of natural stacked stone. The patented rear lip provides ease of installation, with the durability of concrete to deliver a superior result for your project.



Sandstone

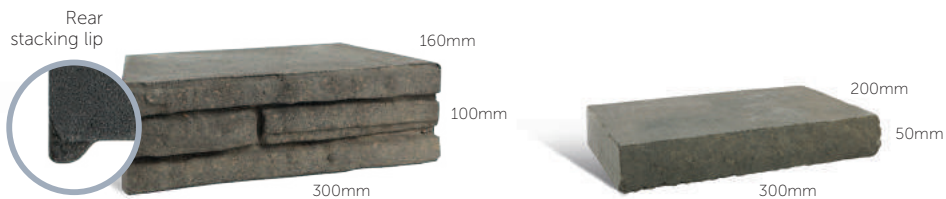


Ironstone



Bluestone

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.



Natural Impressions® Flagstone Block

No. per m² 33.33 units
Approx. Weight 9.49kg
No. per pallet 144

Natural Impressions® Flagstone Cap

No. per l/m 3.33 units
Approx. Weight 5.95kg
No. per pallet 216

- ✓ DIY blocks feature a 'rear lip' which makes them easy to stack
- ✓ Blended colours for a more natural stone look
- ✓ Varying face profiles mean walls take on a truly random, natural appearance
- ✓ Create beautiful serpentine arcs as well as easy curves and straight walls

Maximum Unreinforced Height - 700mm + cap (7 courses)
or up to 1500mm + cap (15 courses) with reinforcement
Consult your local council for all walls over 800mm in height





CREATE CURVES



SETBACK WALLS



GARDEN EDGING



SUITABLE WITH TORPEDO™



UNREINFORCED HEIGHT 700MM
MAX HEIGHT ENGINEERED 1500MM

Natural Impressions® Duostone

Duostone blocks are a fusion of ultra-modern smooth surfaces with the timeless appeal of textured natural stone to create beautiful walls. Choose Duostone for statement walls and enjoy this architectural feature in your home.



Ash



Graphite

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.



Natural Impressions® Duostone Block

No. per m² 33.33 units
Approx. Weight 9.5kg
No. per pallet 168



Natural Impressions® Duostone Cap

No. per l/m 3.33 units
Approx. Weight 5.94kg
No. per pallet 216

- ✓ Each block features contrasting smooth and textured elements
- ✓ Highly desirable natural stone-like aesthetic
- ✓ Complementary colours including the ultra rich Graphite colour
- ✓ Create beautiful serpentine arcs as well as easy curves and straight walls

Maximum Unreinforced Height - 700mm + cap (7 courses)
or up to 1500mm + cap (15 courses) with reinforcement
Consult your local council for all walls over 800mm in height





STEPS



CREATE CURVES



ENGINEER FOR HIGHER WALLS



SETBACK WALLS



SUITABLE WITH TORPEDO™



UNREINFORCED HEIGHT 1000MM
MAX HEIGHT ENGINEERED 2600MM

Allan Block® Junior

These traditional set back retaining wall blocks feature a large block face for contemporary styling and easy installation. They are an ideal choice when building your own retaining walls and ideal for gentle curves.



Oatmeal



Bondi Blend



Sunstone



Charcoal



Biscuit Blend*

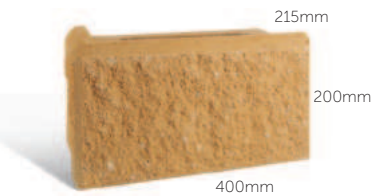
Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.

*MTO COLOUR - This is a made to order colour minimum quantities and lead times apply.



Allan Block® Junior

No. per m² 23 units
Approx. Weight 14.7kg
No. per pallet 80



Allan Block® Cornerstone Junior

No. per m² -
Approx. Weight 22.2kg
No. per pallet 50 (25 Left, 25 Right)

Right corner shown.
Available in left and right hand units.



Allan Block® Cap Short

No. per l/m 4.6 units
Approx. Weight 9.3kg
No. per pallet 180



Universal Bullnose

For capping unit
No. per L/m 3.3 units
Approx. Weight 8.7kg
No. per pallet 192

- ✓ Horizontal bevells look great in finished walls
- ✓ Create straight walls, corners and gentle curves with ease
- ✓ Specialty corner and block capping units
- ✓ Build your own unreinforced walls to 1000mm

Maximum Unreinforced Height - 800mm + cap (4 courses)





STEPS



ENGINEER FOR HIGHER WALLS



SETBACK WALLS



SUITABLE WITH TORPEDO™



UNREINFORCED HEIGHT 600MM
MAX HEIGHT ENGINEERED 2600MM

Allan Block® Aussie

These durable concrete retaining wall blocks are ideally suited to reclaiming sloped land.



Oatmeal



Bondi Blend



Sunstone



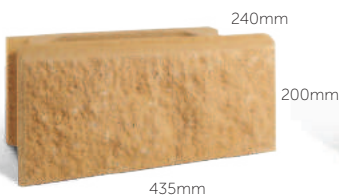
Charcoal



Biscuit Blend*

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.

*MTO COLOUR - This is a made to order colour minimum quantities and lead times apply.



Allan Block® Aussie

No. per m² 11.5 units
Approx. Weight 29.4kg
No. per pallet 40



Allan Block® Cornerstone Aussie

No. per m² -
Approx. Weight 22.2kg
No. per pallet 50 (25 Left, 25 Right)
Right corner shown.
Available in left and right hand units.



Allan Block® Cap Short

No. per l/m 4.6 units
Approx. Weight 9.3kg
No. per pallet 180



Universal Bullnose

For capping unit
No. per L/m 3.3 units
Approx. Weight 8.7kg
No. per pallet 192

- ✓ Horizontal bevelling frames block face
- ✓ Create straight walls, corners and gentle curves with ease
- ✓ Speciality corner and block capping units
- ✓ Highly desirable oversized block size for premium aesthetic

Maximum Unreinforced Height - 800mm + cap (4 courses)





CREATE CURVES



GARDEN EDGING



VERTICAL WALLS



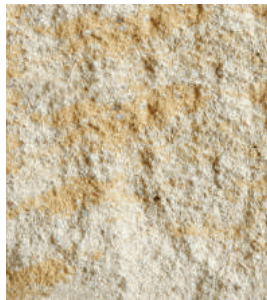
MAX HEIGHT 500MM

Miniwall®

Create curves, straight walls and full circles with this light weight, DIY-friendly garden block. Miniwall has a finished, split face texture on both faces of the block which means you can create walls, edges and circles that look good from every angle.



Oatmeal



Bondi Blend



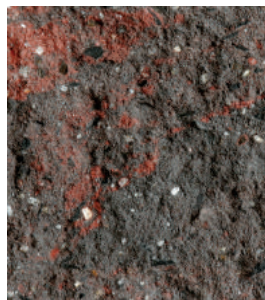
Sunstone



Charcoal



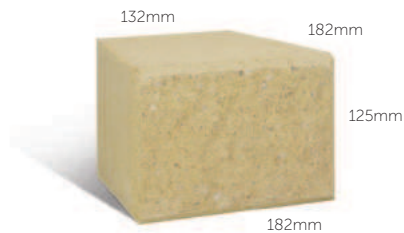
Biscuit Blend*



Port Blend*

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.

*MTO COLOUR - This is a made to order colour minimum quantities and lead times apply.



Miniwall® Standard Unit

No. per m ²	50 units (solid wall)
Approx. Weight	7.4kg
No. per pallet	180

- ✓ Easily build your own straight, curved or circular walls
- ✓ Textured finish on both faces of the block
- ✓ Stack blocks together using landscape grade adhesive between courses
- ✓ No capping unit required to finish the wall

Maximum Unreinforced Height - 500mm (4 courses)





CREATE
CURVES



GARDEN
EDGING



VERTICAL
WALLS



SETBACK
WALLS



SUITABLE WITH
TORPEDO™



MAX HEIGHT
600MM

Wallstone® Grande

With four bevelled edges, these block walls have a contemporary feel, making them the ideal solution for backyard retaining walls.

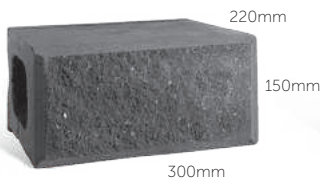


Oatmeal



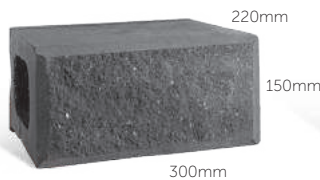
Charcoal

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.



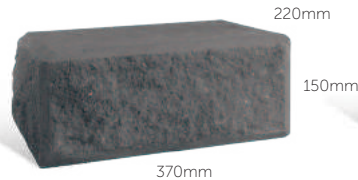
Wallstone® Grande
Standard Stacking Unit

No. per m² units 22.2
Approx. Weight 13.6kg



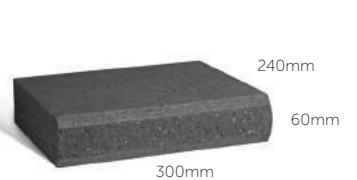
Wallstone® Grande
Tapered Stacking Unit

No. per m² units 22.2
Approx. Weight 13.0kg



Wallstone® Grande
Righthand/Lefthand Corner

No. per m² -
Approx. Weight 24.0kg
Right corner shown. Available in left
and right hand units.



Wallstone® Grande
Universal Cap

No. per l/m 3.3 units
Approx. Weight 8.5kg

- ✓ Split face texture provides natural rock look
- ✓ Contemporary bevel on all four sides provides modern look
- ✓ Build setback or vertical walls
- ✓ DIY-friendly block design

Maximum Unreinforced Height - 600mm + cap (4 courses)





CREATE
CURVES



GARDEN
EDGING



STRAIGHT
WALLS



GARDEN
BEDS



STEPS



SETBACK
WALLS



SUITABLE WITH
TORPEDO™



UNREINFORCED
HEIGHT 1040MM

Windsor™ Stone

Create retaining and garden walls to 1 metre in height without reinforcement with DIY friendly Windsor Stone blocks. With a rear lip locking system to make stacking blocks even easier, you can effortlessly build great looking concave, convex and curved walls.



Oatmeal



Charcoal

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.



Windsor™ Stone Standard Unit

No. per m ²	26 units
Approx. Weight	13.8kg
No. per pallet	120

- ✓ Crunched stone-like face texture for natural aesthetic appeal
- ✓ Each block includes rear locking lip for easy DIY building
- ✓ Build unreinforced walls to 1040mm (seek council approval)

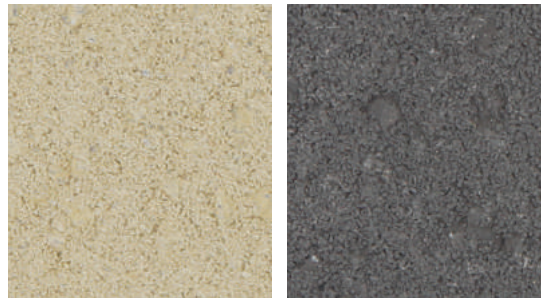
Maximum Unreinforced Height - 1040mm (8 courses)





Lawn Edge

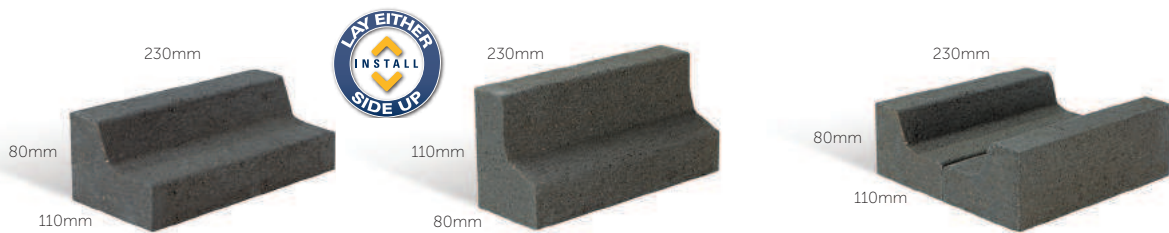
Separate your lawn from the garden bed, stop turf runners from creeping into your plants and create well defined zones with this easy to install, light-weight edging brick.



Oatmeal

Charcoal

Due to natural variations in the raw materials we use, colours may vary from batch to batch. Always sight a physical sample before purchase.



Lawn Edge Standard Unit

No. per l/m 4.35 units
Approx. Weight 2.9kg
No. per pallet 280

Lawn Edge Standard Unit

Lawn Gutter (Uses 2 units)

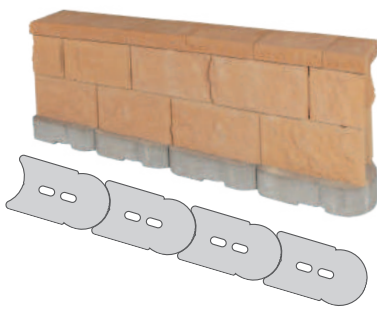
- ✓ Versatile DIY-friendly garden edging unit for use in home gardening projects
- ✓ Separate the lawn from the garden bed
- ✓ Lay two ways for high edge or mowing strip
- ✓ Lay 2 units together to create a channel or gutter through your garden



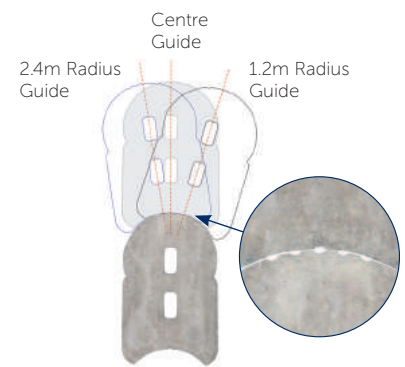
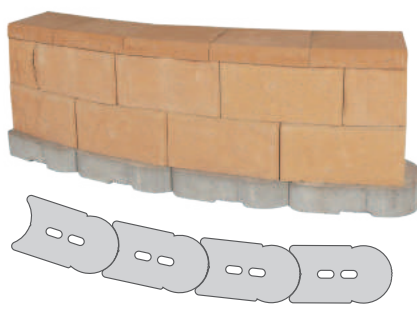
Torpedo™ Base Block

The Torpedo™ Base Block is the quickest and easiest way to take the guesswork out of wall construction by providing a simple and time saving method for creating durable and level foundations.

Torpedo™ use with straight wall



Torpedo™ use with curved wall



Torpedo™ Base Block Standard Unit

No. per l/m	2.5 units
Approx. Weight	21.28kg
No. per pallet	72

- ✓ May replace the need for roadbase and compaction in unreinforced walls
- ✓ Saves money usually wasted burying the first course
- ✓ Suitable for use under any segmental block wall system
- ✓ Reduce challenges with screeding and levelling
- ✓ Straight Retaining Walls and Curved Retaining Walls (Concave and Convex)
- ✓ Lay Torpedo™ blocks onto cement stabilised sand and tap level





How to Build a Retaining Wall



Before you commence any retaining wall project over 800mm in height, please check your local council specific design requirements. Council regulations may require walls over a certain height to be designed and certified by a qualified engineer.

YOUR CHECKLIST

- ✓ Safety gear (breathing, hand and eye protection)
- ✓ Wheel barrow
- ✓ Shovel
- ✓ Tape measure
- ✓ String line
- ✓ Pegs or stakes
- ✓ Spirit level
- ✓ Walling blocks
- ✓ Plate compactor
- ✓ Broom
- ✓ Drainage pipe
- ✓ Crushed roadbase (for base)
- ✓ Brick saw (for cutting block)
- ✓ 10-20mm drainage aggregate (for backfill)

General Step by Step Guide

Flexible Base (using either compacted roadbase or Torpedo™ blocks)

Wall installation may vary from product to product

STEP 1 Marking Out

Using marking paint and string line, mark out the line of your wall.



STEP 2 Excavation

Remove soil and turf to excavate trench.

TIP

Always call Dial Before You Dig on 1100 before excavating.



STEP 3 Preparing the Footing

Bring in roadbase and compact before screeding a sand and cement mix bed.



STEP 4 Laying the First Course

Start at either the lowest point, or the most visible section of your wall.

Place blocks and check for level side to side and front to back.



STEP 5 Infill and Backfill with Aggregate

When using cored blocks it's vital you infill the cores in each block with free draining aggregate like blue metal.

You must also backfill with the same aggregate behind your wall to form a drainage column.



STEP 6 Drainage pipe

It's imperative your wall does not have water pressure massing behind it.

Install a drainage pipe and divert water away from back of wall.



STEP 7 Laying subsequent courses

Continue laying blocks and be sure to remove debris from top and bottom of blocks with a brush and check for level.

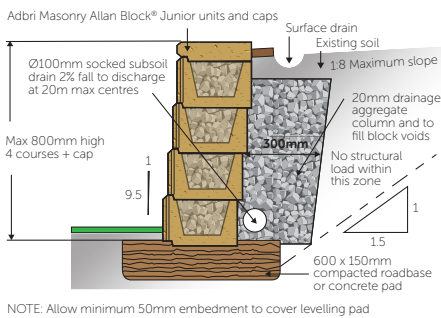


STEP 8 Finishing the wall

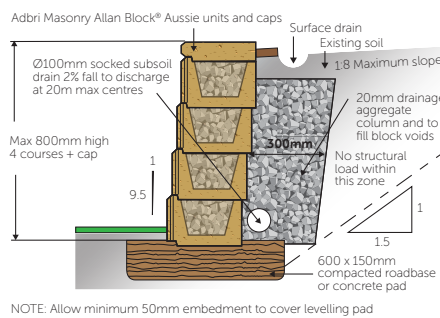
Finish the wall neatly with wall caps where required. Bring in soil to finish behind the wall.



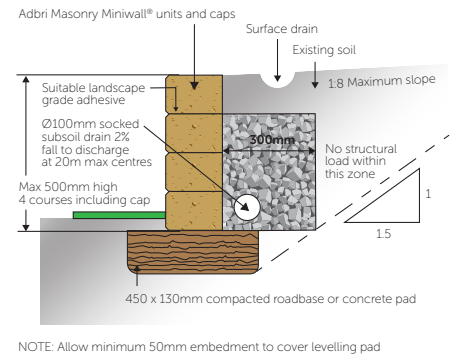
Typical Installation Details



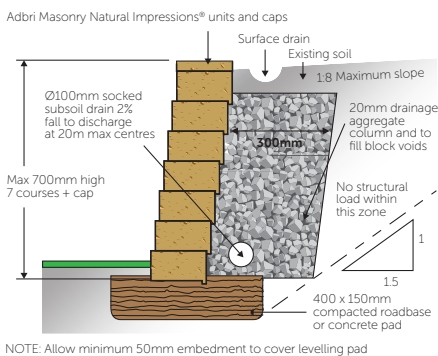
Allan Block® Junior



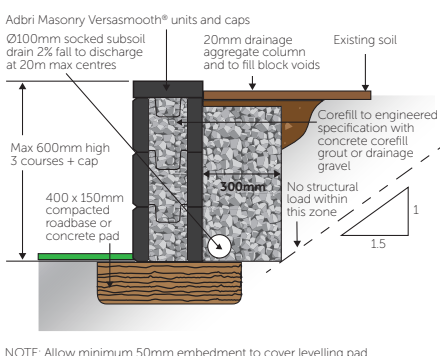
Allan Block® Aussie



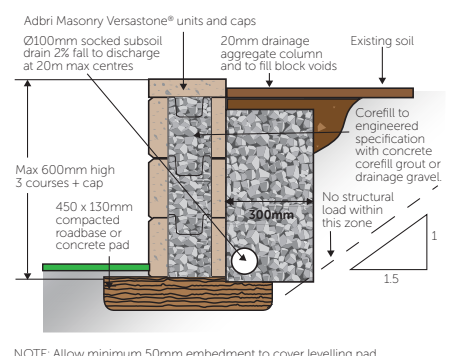
Miniwall®



Natural Impressions®



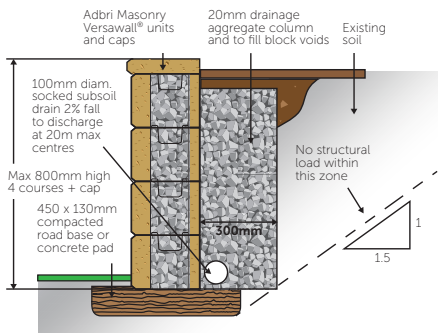
Versasmooth®



Verstastone®

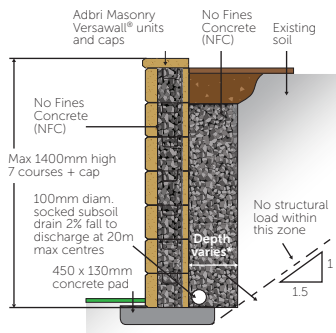
NOTES

- All cross sectional diagrams are not to scale.
- All retaining walls are designed to CMAA document .MA53 (Segmental Concrete Gravity Retaining Walls Design and Construction Guide).
- All retaining walls shall comply with AS 4678 Structure Classification A.
- These diagrams are only applicable to retaining walls that incorporate an impermeable surface membrane and drainage system such that there can be no ingress of any water into the soil behind the retaining wall.
- These diagrams are applicable to cuts in insitu soils. The diagrams are not applicable to cohesive fill.
- All retaining walls are designed for an imposed surcharge load of 2.5 kPa. If imposed loads greater than 2.5 kPa are expected, these designs will not be appropriate.
- Levelling pad: a levelling pad may consist of compacted material (5% cement stabilised crushed rock) for wall heights up to 800mm. Walls over 800mm high must use 20MPa concrete for the levelling pad.
- This design information is a guide only. For walls exceeding the nominated heights as above, please refer to the Retaining Wall Systems Technical Brochure. Walls exceeding maximum heights shown will need to be designed and certified by a qualified engineer. Please consult your local council to confirm if you require council approval for your proposed retaining wall.



NOTE: Allow minimum 50mm embedment to cover levelling pad

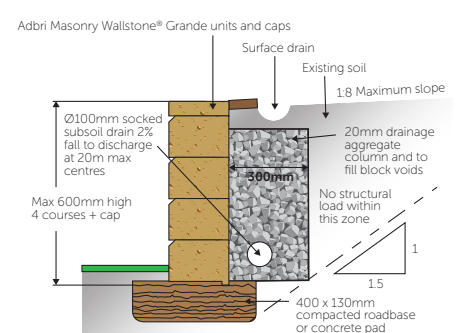
Versawall®



NOTE: Allow minimum 50mm embedment to cover levelling pad
Always seek engineering advice for walls exceeding maximum unreinforced height

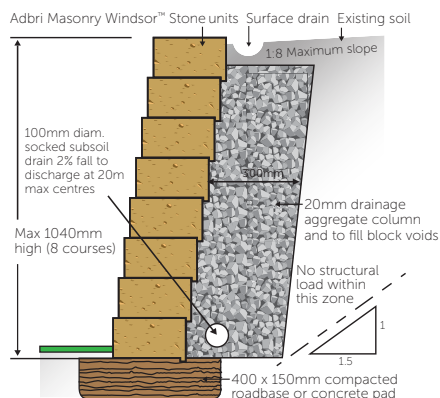
* Dependent on height & soil conditions. Refer to Adbri Technical Retaining Wall brochure for required backfill of No Fines Concrete

Versawall® - No Fines



NOTE: Allow minimum 50mm embedment to cover levelling pad

Wallstone® Grande



NOTE: Allow minimum 50mm embedment to cover levelling pad

Windsor™ Stone



This brochure is made from elemental chlorine free bleached pulp, sourced from plantations and sustainably managed sources. This paper is biodegradable, renewable and sustainable. It is manufactured by an ISO 14001 certified mill. Forestry plantations provide clean air, clean water, wildlife habitat and carbon storage. This brochure has been printed in a solar powered facility.

BRICKS

BESSER® BLOCKS

PAVERS

RETAINING WALLS



AdbriMasonryAus



adbrimasonry

1300 365 565 | www.adbrimasonry.com.au | enquiries@adbri.com.au

Free pallet collection service freecall 1800 674 961 or drop pallets back to place of purchase or lodge your pallet pick up online at adbrimasonry.com.au

Pallets remain Adbri Masonry property. Please telephone us for collection of pallets and keep pallets empty and stacked in a safe and accessible area for collection.

Landscape Solutions Retaining Walls (South Australia) - October 2021 - ABM6040

Adbri Masonry Pty Ltd | ABN: 31 009 687 521

Allan Block®, Miniwall®, Natural Impressions® Duostone, Natural Impressions® Flagstone, Torpedo™, Versasmooth®, Versastone®, Versawall®, Wallstone® Grande, Windsor™ Stone and the Adbri Masonry logo are registered trademarks of Adbri Masonry Pty Ltd

adbriMASONRY

an ADBRI company