

# Hastings

Retaining Walls

**masonry.**  
build in style





## build in style

Our range of coloured, standard and premium masonry have set a new standard in quality and style for the versatile concrete block. By adding oxides and coloured sands to our mix of raw materials, we produce blocks with contemporary colours, textures and appeal. Ideal for a range of projects from a modern beach residence to impressive commercial projects Austral Masonry® has an array of products to suit your style.

Austral Masonry blends fine sand, cement, aggregate and quality colouring agents to produce unique coloured blocks. Having long been the workhorse of the construction industry, our products are frequently specified in cutting-edge residential and commercial designs due to their strength and versatility.

Part of the Brickworks Building Products Group, one of Australia's largest and most innovative building product manufacturers, Austral Masonry is part of a group of manufacturers which includes other industry leading brands such as Austral Bricks®, Bristle Roofing®, Austral Precast™ and Auswest Timber®.





## retaining walls

Our versatile range of retaining wall blocks offer a mix of contemporary colours and textures to create inspired landscapes with impressive and lasting appeal.

From creatively designed paths and courtyards to naturally textured garden borders, retaining walls and even rendered walls in stunning colours, Austral Masonry offers products that will see your visions come to life.

### **Colour Variation**

Please note that masonry products may vary in colour from batch to batch and the product photographs in this publication are indicative only of the range of colours and textures available.

We strongly recommend you visit an Austral Masonry display at a number of Austral Display Centres and Distributors displays listed on our website to view physical samples and current products before finalising your selection.



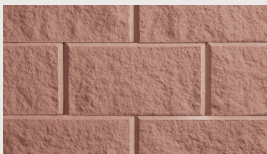
# Hastings



Storm



Pier



Dusk



Beach Wood

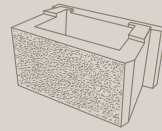


Shore





## Specifications



### Wall Block

Size(mm): 390L x 245W x 200H

Weight (each): 21.5kg

Blocks per m2:  
1m2 wall = 13 blocks

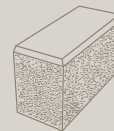


### Capping Block

Size(mm): 195L x 245W x 90H

Weight (each): 9kg

Blocks per lineal metre:  
5 caps



### Corner Block

(Right-hand corner block shown)

Size(mm): 160L x 360W x 198H

Weight (each): 20kg

Available in left or right

## Rich, natural colours and design flexibility.

The Hastings Retaining Wall Blocks boast a natural aura through the split face texture and appealing colours. From rich sandy tones of Beachwood and Shore to deep stormy greys, the colour palette will enhance and complete any landscaping theme.

Depending on what suits your overall desire one thing is certain, Hastings Retaining Wall Blocks have the colour and finish to cater for all landscaping projects.

Structurally sound and perfect for the 'do it yourself' weekend warrior, the Hastings Retaining Wall Blocks require no mortar, and are virtually maintenance free.



# HOW TO LAY RETAINING WALLS

Austral Masonry's Hastings Retaining Wall Blocks are an ideal choice for retaining walls in gardens, other residential applications and commercial projects. The interlocking and dry stacked nature of the Hastings blocks, makes them easy to install for the "Do It Yourself" landscaper, while their connection strength provides confidence on larger jobs. No matter what the project, the result is always an attractive and low maintenance retaining wall. The flexibility of the system provides tremendous scope, from edging to terraces, straight walls to curves.

Note: For commercial projects, terraced walls, fences above walls, walls in clay or fine sands, walls in areas subject to water run-off, walls over 800mm high and other specialised applications, engineering guidelines will need to be followed. Please consult with regulating council for local design requirements prior to the commencement of any retaining wall. Councils may request walls over 0.5m in height and / or where a surcharge exists (e.g. driveway, house, fence or other structure) be designed and certified by a suitably qualified consulting engineer.

Your Checklist

☐ String line

☐ Tape measure

☐ Walling units

☐ Compaction Tool

☐ Shovel

☐ Spirit level

☐ Wheel barrow

☐ Agriculture Drain Pipe

☐ Pegs or stakes

☐ Broom

☐ Gloves & eye protection

☐ Geogrid

☐ Mitre saw (to cuts blocks if req'd)

☐ 10-20mm Crushed stone (back fill)

☐ Crushed rock (for base)

## Estimating materials

Calculate number of Hastings blocks required

| No. blocks high | Length of wall (metres) |    |    |    |     |     |
|-----------------|-------------------------|----|----|----|-----|-----|
|                 | 2m                      | 4m | 6m | 8m | 10m | 12m |
| 1 course        | 6                       | 11 | 16 | 21 | 26  | 32  |
| 2 courses       | 11                      | 22 | 32 | 42 | 52  | 63  |
| 3 courses       | 16                      | 32 | 47 | 62 | 78  | 94  |
| 4 courses       | 21                      | 42 | 63 | 83 | 104 | 125 |

Calculating Block Quantities – Example wall (Includes waste)

10m long x 3 courses high

Blocks

(10 metres x 2.57 blocks per metre) x 3 courses = 77.1 blocks (78 blocks rounded)

Add 5% Extra (Breakages, Curve Walls, Cuts) = 82 Hastings Blocks overall

Capping

10 metres x 2.57 capping blocks per metre = 25.7 capping blocks (26 blocks rounded)

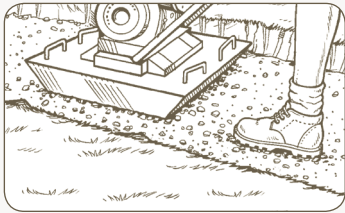
Add 5% Extra (Breakages, Curve Walls, Cuts) = 28 Hastings Capping Blocks overall

## Step 1: Permits

Check with your local council to ensure all local Building Codes are complied with.

## Step 2: Foundation

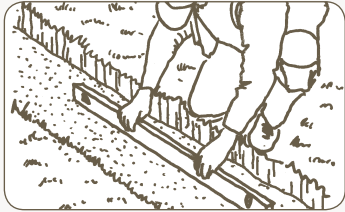
The foundation material shall be compacted by several passes of a mechanical plate vibrator. Where there are significant variations of foundation material or compaction, soft spots, or where there is ponding of ground water, the material shall be removed, replaced and compacted in layers not exceeding 150mm. Trenches shall be dewatered and cleaned prior to construction, such that no softened or loosened material remains.



## Step 3: Bearing Pad

The wall shall be built on a bearing pad, not less than 150mm deep, consisting of one of the following options:

- Compacted crushed rock, well-graded and of low plasticity (without clay content), compacted by a plate vibrator;
- Cement-stabilized crushed rock, with an additional 5% by mass of cement thoroughly mixed moistened and compacted by a plate vibrator; or
- Lean-mix concrete with a compressive strength of not less than 15 MPa.

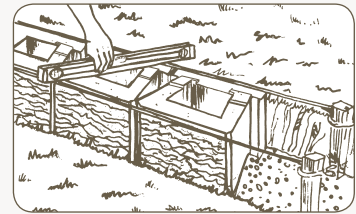




#### Step 4: First Course

Spread 25mm of metal dust with an additional 5% by mass of cement over the compacted base. The first course is now bedded into the metal dust. The use of a level and string line is recommended to ensure the first course is laid correctly. Ensure each block is also well filled with free-draining material (eg. crushed rock aggregate/blue metal).

For walls up to 1 metre high, make sure at least 100mm of the first-course blocks are buried below the finished ground level. Allow 200mm for walls over 1 metre high and up to 3 metres high

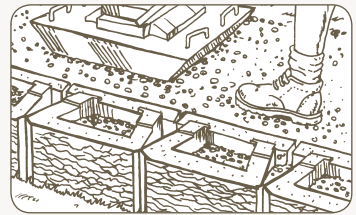


#### Step 5: Drainage and Back Fill

Place 100mm diameter agricultural pipe with geotextile sock behind the wall, with a 1 in 100 fall.

Backfill behind the courses of blocks to a width of 300mm using 10-20mm free draining material (eg. crushed rock aggregate / blue metal). Ensure each block is also well filled with free-draining material.

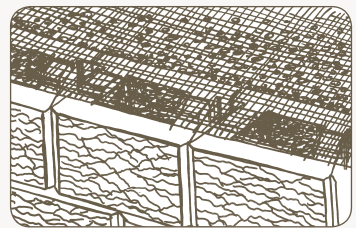
Backfill behind the drainage layer with select backfill material in a maximum of 200mm layers. Compaction rate of 95% must be achieved (use only hand operated plate compactors within 1 metre from the back of the wall). Do not use soft or wet clay to backfill. Be careful not to mechanically compact too close to the wall.



#### Step 6: Laying Additional Courses

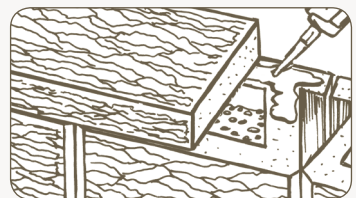
Clean any debris from the top of the wall to ensure the next block and or the geogrid layer sits perfectly. Roll the geogrid perpendicular to the wall, pull tight and cut to the required length. Ensure that the geogrid sits within 15mm of the face of the block, so that the purpose made connection lugs can interlock. Butt join the geogrid along the length of the wall.

Place the next course on top of the geogrid, fill the blocks, pull the geogrid taut and pin down while compacting the drainage layer and backfill.



#### Step 7: Capping Units

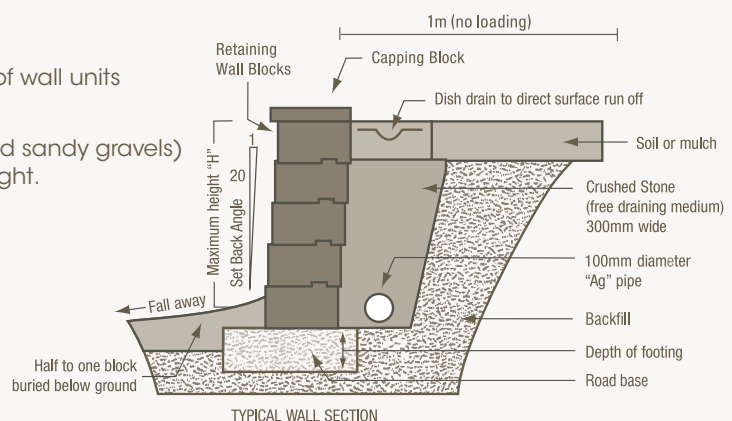
Once backfilling and cleaning is completed as per Step 5, fix the purpose made Hastings Capping Blocks with cement based flexible adhesive.



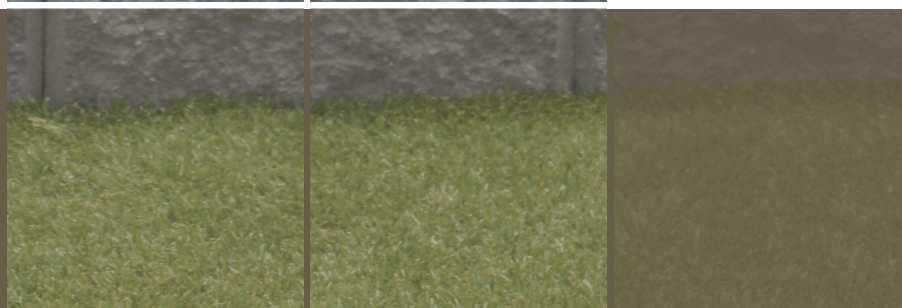
#### Cross Section of a Finished Wall

Note:

1. No loads above 2.5kPa to be allowed within 1.0m of wall units
2. Maximum wall height in good soils is 4 courses.  
(Good soils include gravels, crushed sandstone and sandy gravels)  
Refer to Technical Guidelines for walls up to 3m height.







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The product images in our brochures give a general indication of colour for your preliminary selection. We recommend you also view current product samples before making your final selection. Printed March 2012.

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