



allanblock.com



Bowers Brothers Concrete

□ **RETAINING WALL**



### About Us

Bowers Retaining Systems Ltd, is the licensee for Allan Block here in New Zealand. Allan Block was started in 1986 and has become a prominent retaining wall company worldwide. The patented system is easy to lay, durable, cost effective and best of all, looks great. With Allan Block's support network, Bowers is proud to bring these products to the New Zealand market. Local manufacturing with international support.

### Seismic Tested

Allan Block retaining wall has had extensive seismic testing carried out on it by Columbia University, in the United States of America. Contact us for more details.



## A FAMILY OF RETAINING WALL PRODUCTS

### FEATURES

- Built-in drainage, interlock and engineering
- Unlimited design possibilities
- Easy to install
- No pins required

### Beautiful Walls by Allan Block

If you are looking for a perfect blend of style and performance, the choice is Allan Block.

**Allan Block stacks beautifully and creates a smooth and fluid finish for every wall. Expect high performance and natural beauty with Allan Block walls.**





# ALLAN Block® Collection from BOWERS



## AB Classic

For a perfect blend of performance and style, choose our most popular all-rounder, the AB Classic. With built-in 6 degree setback, the AB Classic stacks beautifully and creates a fluid finish for every wall.

**Dimension:** 200 mm H x 435 mm L x 305 mm D

**Coverage:** Approximately 0.1 M<sup>2</sup> (11 per M<sup>2</sup>)

**Setback:** 6 degree from Vertical **Weight:** 32 Kg



## AB Vertical (Made to Order)

AB Vertical minimises wall foot print, while the 3 degree batter allows for good utilisation of land and the space above the wall.

**Dimension:** 200 mm H x 435 mm L x 305 mm D

**Coverage:** Approximately 0.1 M<sup>2</sup> (11 per M<sup>2</sup>)

**Setback:** 3 degree from Vertical **Weight:** 32 Kg



## AB Junior

The square block format offers a crisp contemporary alternative to your landscape. With built-in 6 degree setback, the AB Junior stacks beautifully and creates a fluid finish for every wall.

**Dimension:** 200 mm H x 216 mm L x 240 mm D

**Coverage:** Approximately 0.043 M<sup>2</sup> (23 per M<sup>2</sup>)

**Setback:** 6 degree from Vertical **Weight:** 15 Kg



## AB End/Corner Block

**Dimension:** 200 mm H x 400 mm L x 196 mm D

**Coverage:** Approximately 0.1 M<sup>2</sup> (11 per M<sup>2</sup>)

**Setback:** 6 degree from Vertical **Weight:** 26 Kg



## AB Cap Stone

**Dimension:** 80 mm H x 432 mm L x 260 mm D

**Coverage:** 0.432 M<sup>2</sup> (2.2 per L M)

**Setback:** 0 degree from Vertical **Weight:** 22 Kg

## NOTE

- Colour and texture may vary between retaining wall types and batches. To ensure a uniform finish we recommend that you blend off multiple pallets if the job is greater than one pallet.
- Concrete products may display 'efflorescence' (whitening) which is a natural occurrence. We have taken all possible steps to minimise this from occurring in our products.
- Colours shown may alter, due to the limitation of the colour printing process of the brochure.
- All dimensions and specifications are approximate.

## Colours

A choice of three natural stone-look colours are available – **Iron Sand**, **Rock Salt & Natural**. Other colours options can be made to order.



IRON SAND



ROCK SALT



NATURAL

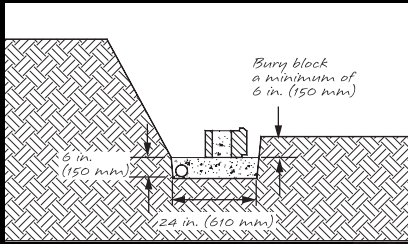
## IMPORTANT INFORMATION

- For Walls exceeding 900mm, or for retaining walls supporting an additional load eg. driveways, buildings, or slopes etc, engineering advice should be sought. Please contact your Engineer or Sales Representative for advice.
- In addition, check with your local council for requirements and regulations in your particular area.

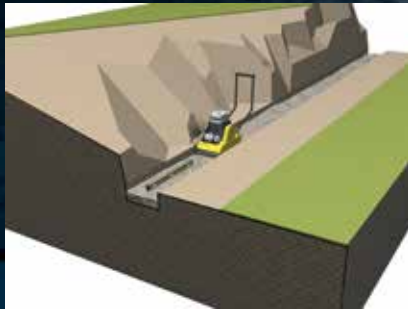
# Gravity Wall Construction

## Building Gravity Walls

The below installation steps are just general guidelines, please refer to the Allan Block Retaining Walls Installation Manual for complete details and information on taller walls.



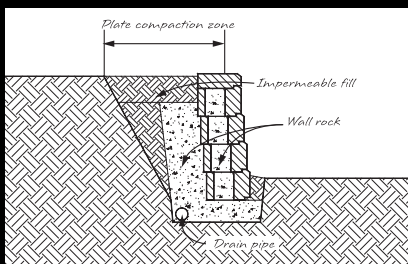
Gravity wall base course cross



Level blocks, adjust where needed



Install base course, level and compact



Gravity wall typical cross section

### Step 1: Site Prep and Excavation

- Remove surface vegetation and organic soils.
- Excavate base trench a minimum of 600mm wide and 300mm deep.
- Buried block should be a min of 150mm
- Compact and level trench.

### Step 2: Install Base Material

- Place a minimum of 150mm of 6-38mm Wall Rock in the base trench and rake smooth.
- Compact and level base material.

### Step 3: Install Base Course

- Begin at the lowest wall elevation. Place AB units on base material, check and adjust for level and alignment of each unit.
- A drainage pipe is recommended for all walls regardless of height and particularly walls that are constructed in silty or clay soils.

### Step 4: Install Wall Rock and Backfill Materials

- Fill the AB hollow cores and a minimum of 300mm behind the wall with Wall Rock.
- Use approved material to backfill behind the Wall Rock and in front of the base course.
- Use a plate compactor to consolidate the area behind the block. Compact in lifts of 200mm.

### Step 5: Install Additional Courses

- Remove all excess material from the top surface of AB units. This can be done when installing the next course of block, by sliding the block into place.
- Stack the next course of blocks so that the vertical seams are offset from the blocks below by at least 75mm or 1/4 the length of the block.
- Check and adjust for level and alignment of each unit and the wall batter as the wall stacks up.
- Fill the block cores and behind with Wall Rock and place approved soils as described in Step 4.
- From course 2 and above use a plate compactor to compact directly on the blocks as well as the area behind the block. Compact in lifts of 200mm or less.
- Complete wall to required height.
- Use 200mm of impermeable fill on the last lift to finish off wall.

### Local Reseller



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