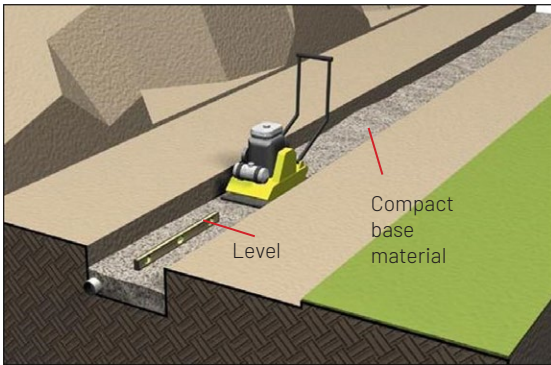


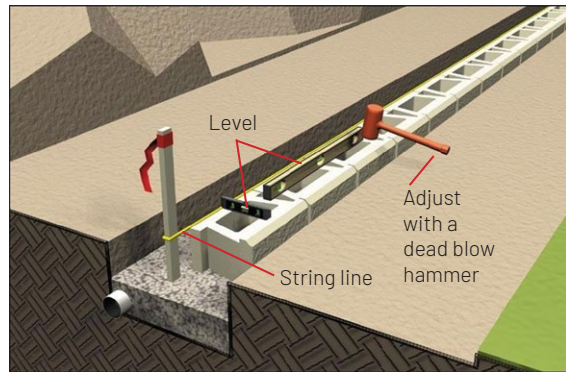
# Allan Block® Gravity Wall Construction Guide

Full installation guides available on request

## How to Build a Gravity Retaining Wall



Install base course, level and compact



Level blocks, adjust where needed

## Installation Process

### 1. Site Preparation

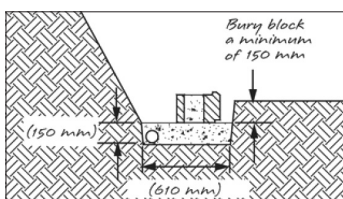
- Remove all surface vegetation and organic soils.
- Excavate a base trench at least 600mm wide and 300mm deep.
- Ensure that the bottom course of blocks will be buried a minimum of 150mm with compact and level trench.

### 2. Base Installation

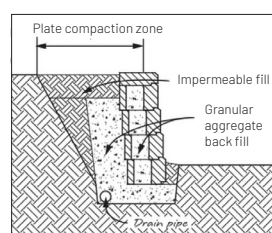
- Place 150mm of graded stone (6–38mm) in the trench and rake smooth.
- Compact and level the base material thoroughly.

### 3. Laying the Base Course

- Start at the lowest elevation of the wall.
- Place the first course of Allan Block® units on the base, checking for level and alignment.



Gravity wall base course cross section



Gravity wall typical cross section

### 4. Drainage Installation

- Install a drainage pipe - essential for all walls and particularly important in silty or clay soils.

### 5. Backfilling and Core Fill

- Fill each block's hollow core and a minimum of 300mm behind the wall with drainage stone.
- Use approved material behind the drainage zone and in front of the base course.
- Compact in lifts no greater than one block height (200mm) using a plate compactor.

### 6. Building Additional Courses

- Remove any loose debris from the top surface of the block before placing the next course.
- Offset each new block course from the one below by at least 75mm (¼ block length).
- Check and adjust for level and alignment of each unit and the wall batter as the wall stacks up.
- Continue filling the block cores and drainage zone as the wall progresses.
- From the second course upward, compact directly on top of the blocks and the backfill zone in 200mm lifts or less.

### 7. Finishing the Wall

- Complete the wall to the desired height.
- Cap the wall using 200mm of impermeable soil on the final lift.