

# DIY INSTALLATION STEPS



## Step 1: PLANNING & FOUNDATION

DIY Wall blocks should be laid on either a concrete foundation or footing, (reinforcing bars per engineering). For retaining walls up to 1500mm high to be backfilled with no-fines concrete, or low non-load bearing landscape walls under 600mm, a compacted FCR gravel footing is sufficient.

**TIP:** For walls already engineer designed for 190mm wide concrete filled reinforced concrete blocks, to be laid on mortar, the same engineering design applies for a mortarless 200mm DIY Wall Block. Ph. Dial Before You Dig 1100



## Step 2: WHERE TO START

Each DIY block locks into either end with patented connecting lugs. Start laying blocks from a corner or the end of a wall. To build a corner, lay two DIY corner blocks per course, one in each direction then alternate for the courses above. See typical detail.

**TIP:** Always consider access & which side of a wall you are laying from, place the DIY wall blocks as close as possible to the laying zone.



## Step 3: LAYING 1ST COURSE ON MORTAR

The first course of DIY blocks should be laid to a stringline on a 10mm thick mortar bed (6 parts sand 1 part cement).

**TIP:** The first course of blocks is laid perfectly level along the wall as well as level side to side. Subsequent courses will follow so remember start level and finish level. Use a stringline to lay to.



## Step 4: LAYING DIY WALL BLOCKS

Spread a thin layer of construction adhesive on the blocks below with a caulking gun, then simply place the DIY blocks along the wall, allowing them to self-locate by locking into the next block. Start each course from any corners.

**TIP:** Be aware which courses require vertical and horizontal reinforcement bars, mark the vertical starter bars with spray paint at the base of the wall to identify the location.



## STEP 5: LEVELLING DIY WALL BLOCKS

Check for level vertically, starting on corners & the end of any wall prior to setting up the stringline. Additionally, every 2nd course (400mm high) check the blocks are level horizontally at 90 degrees to the front edge, use 5mm tile wedges where required to level. These can be removed once core filling of the blocks is complete.

**TIP:** With both ends of any wall levelled up, lay a row to a stringline and use a long straight edge for final straightening.



## STEP 6: PLACING STEEL REINFORCEMENT

The DIY blocks have allowances in their design for the easy placement of steel reinforcing bars, placed per engineering requirements. Place horizontal bars within the locators in the DIY blocks. Vertical bars are dropped in from the top of the wall once the final course has been laid, overlapping 400mm with the starter bar at the base.

**TIP:** Knock out a 30mm x 30mm section of corner blocks with a hammer for steel reinforcing to be placed within.

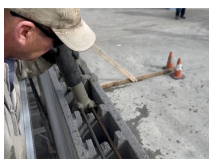


## STEP 7: INSTALLING FENCE POSTS/BALLUSTRADES IN THE DIY WALL BLOCKS

DIY Wall blocks are suitable for 125mm x 60mm C section fence posts, colorbond fence paneling posts & balustrade posts to be concreted within them. There is a designated groove within the blocks to hold fence posts in place.

Minimum depth required is 600mm.

**TIP:** Posts will easily locate within the DIY wall blocks at 2400mm spacings +/- 200mm multiples.



## STEP 8: COREFILLING

Walls over 600mm high require concrete core filling. Maximum height for each pour is 1800mm or 9 courses. Brace any unsupported block wall sections, particularly ends to prevent movement and blowouts during the core fill and curing stages.

**TIP:** Wet down the inside of the blocks with water prior to filling for easy flow of the concrete, fill up the blocks to the top.

## CAPPING UNITS

The requirement for capping is optional dependent on any finish being applied to the wall. If the wall is rendered, not visible or clad with stone etc, no capping is required. If the wall requires a capping unit, Island Block & Paving has various size option that can be adhesively fixed to the top of the wall with a construction adhesive.

## TOOLS REQUIRED

Stringline, level, caulking gun, budget priced construction adhesive, hammer, rubber mallet, 5mm tile wedges, hand brush

## DIY WALL TYPES

- DIY alternative for 190mm wide concrete block walls (20.48, 20.01, 20.42)
- Fences - DIY Wall Blocks can incorporate c section fence posts & balustrades within
- Retaining Walls
- Boundary Walls for site levelling with fence posts to maximise space
- Sheds, Privacy, Parapet & Fire Walls
- Foundation Walls & Swimming Pools
- Multi-story construction where access is limited



DIY INSTALLATION VIDEO