



**BAINES  
MASONRY**  
Quality First

# Fence Stone<sup>®</sup>

## Self locating Wall System

- ✓ Between wall panels
- ✓ End of walls at gate openings etc
- ✓ Internal & external right angles
- ✓ Do it yourself
- ✓ No bricklaying skills required
- ✓ Attractive & efficient

For fences from low gardens to 2.2 metres high



Australian Owned, Designed and Manufactured

member of



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# Fence Stone®

## Self Locating Wall System Guide

The Fence Stone Wall System has been developed to:

- A. Assist unskilled people build their own front fence or garden fence without the skills of a bricklayer - each block locks to its neighbour on each end as well as top & bottom.
- B. Each panel of fence blocks are supported at each end by the purpose made piers.
- C. Fence Stone blocks can be used for low fences, through to noise barriers up to 2.2 metres high.

Be sure to read all installation instructions prior to commencement of building your fence.



### Step 1 – SET OUT, DIG, AND POUR PIER HOLES

Drive timber pegs firm at each end of proposed fence. Set out level marks and step down when necessary. Mark Piers at required distance apart (multiples of 200mm). Dig piers to required depth and width as per the design chart. Prepare vertical steel in pier holes and pour concrete into pier holes. Concrete foundation should be finished about 50-100mm below ground level.



### Step 2 – PREPARE BASE FOR WALLS

Prepare foundations for fence panels between piers with 75mm on compacted road base at the same finished level as the pier foundations.



### Step 3 – PLACING FIRST BLOCKS

Place first course of pier blocks to a level line on a 20mm bed of mortar ensuring the channel for steel reo bar is at the top of the pier blocks. Lay the first course of panel blocks to a string line and level on a bed of sand or metal dust on top of the road base foundation. Ensure that the panel blocks are laid with the key down and the channel for steel reo bar at the top of the block. Panel blocks come mixed of channel and non-channel – be sure to separate sufficient channel type for use on the courses where steel reo bar is required. The non-channel type can be laid elsewhere in the panel.



### Step 4 – PLACING STEEL AND CONCRETE

Place steel reo bar (as per design charts) in the channels horizontally ensuring it carries through to the next panel across piers. Place concrete using a shovel or improvised scoop ensuring it is not spilt onto face of blocks. Concrete mix should be N20 grade, 200mm slump with no larger than 7mm aggregate. Do not use pre-mixed bags of concrete as there is no way of knowing the aggregate size. Do not use rapid set concrete. Concrete can be easily made onsite using a mixture of: 1 part General Portland Cement, 3 parts aggregate, 4 parts river sand and water added to the consistency of a thick pumpkin soup.



## Step 5 – BUILD THE FENCE

Using SRW Adhesive between pier block courses, build the piers up as the panels are built. (Tile wedges can assist in keeping piers plum and level) Fill piers with concrete after every 4th course and extend vertical steel bars to new height. Use the same concrete mix as described in step 4.



## Step 6 – STIFFENING/BOND BEAM

At the second to top course (or at 1 metre centres for walls over 1400mm high) block off hollow cores in block below reinforcing bar to prevent concrete filling entire fence. Fill 2 courses (with reinforcing bar between) with the same block fill concrete mix described in step 4.



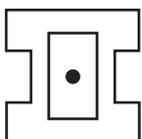
## Step 7 – CAPPING

Place purpose made capping on wall and your selected pier cap to piers using SRW Adhesive. Ensure caps are weighed down to prevent upward expansion until set.

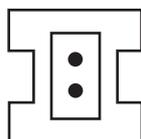
# Design Charts

Fence height from base to top panel	Span of panels between pier blocks	Footing pier depths	Pier type see below	Pier diameter	Bond & stiffening beams
1 metre	3 metres	0.7 metre	1	.25	1 x N12 top only
1.4 metres	2.8 metres	0.8 metre	2	.25	1 x N12 top only
1.8 metres	2.6 metres	1.0 metre	3	.3	1 x N16 bottom 1 x N16 top
2.2 metres	2.4 metres	1.2 metres	4	.45	1 x N16 top 1 x N12 centre 1 x N16 bottom

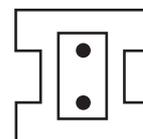
## Pier Reinforcement Construction Types



**Type 1**  
1 x N12  
Centre



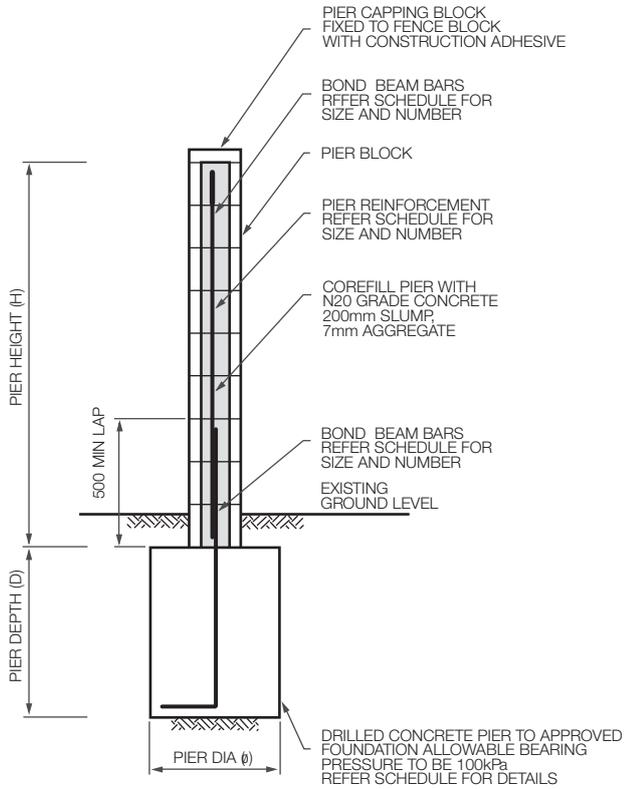
**Type 2**  
2 x N12  
min cover  
20mm



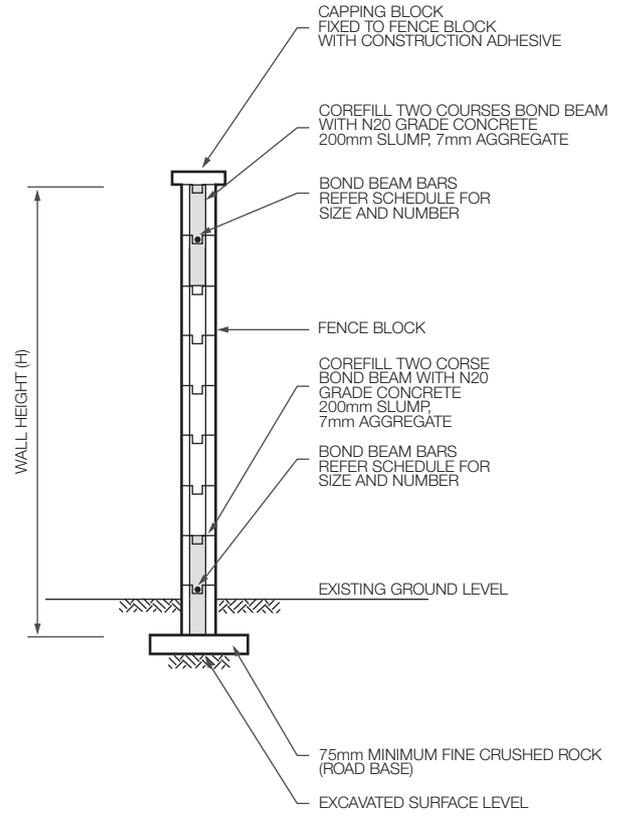
**Type 3**  
2 x N16  
min cover  
20mm

# Typical Details

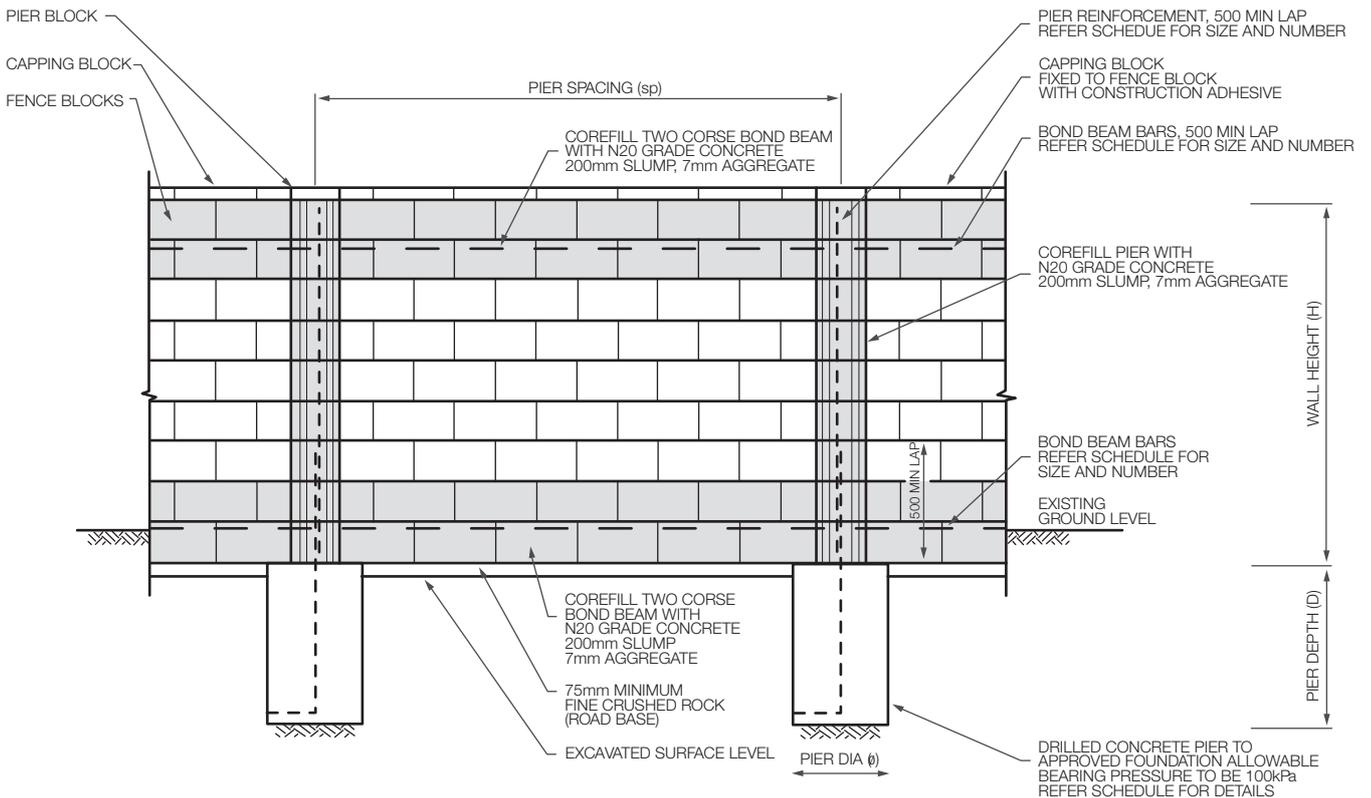
## Typical Fence Pier Section



## Typical Fence Block Section



## Typical Fence Elevation



# Engineering Notes

## 1 Application

The design below applies to domestic fences under 1.8m in height. For fences that exceed this and commercial and infrastructure projects, obtain site specific engineering design by a professional engineer.

## 3 Wind loading

The fence has been designed for the following wind loading in accordance with AS 1170.2: 2011 Structural Design Actions part 2: Wind Actions

- Wind Region A e.g. TAS, VIC, ACT, NSW, SA
- Terrain Category 2.5 e.g. Developing outer urban terrain adjacent open terrain
- Regional Wind Speed VR = 111 m/s

## 3 Foundation Material

- Foundation material to be firm clay or dense sand with 100kg allowable bearing pressure.



# Product Information: Fence Stone® Wall System



**Full Block**  
400mm x 200m x 120mm  
(Face Finished Size)  
12.5 per sqm  
135 per pallet  
Code 12101



**Half block**  
200mm x 225m x 60mm  
25 per lineal m  
300 per pallet  
Code 12103



**Wall Panel Capping**  
200mm x 160m x 60mm  
5 per lineal m  
420 per pallet  
Code 1206



**Pier Cap**  
240mm x 240m x 80mm  
Code 25-80



**End Pier Block**  
240mm x 240m x 200mm  
20 per sqm  
64 per pallet  
Code 2503 EP



**Straight Pier Block**  
240mm x 240m x 200mm  
20 per sqm  
64 per pallet  
Code 2503 SP



**Corner Pier Block**  
240mm x 240m x 200mm  
20 per sqm  
64 per pallet  
Code 2503 CP

## Fence Stone Colour Range



Appin Stone



Charcoal

Colours displayed in this brochure are to be used as a guide only. Colours are as close as printing process will allow.

Displays in stores may vary to actual colour due to batch variations. Obtain samples from Baines Masonry for current batch colour.

Care should be taken to order sufficient product to complete job at the one time to avoid batch variation.

Surplus blocks are not returnable. No claim after 7 days or once products have been incorporated in construction.

Check with your local Council to ensure all local building codes are complied with



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