

Adding Strength To The Wall

Techniques for adding stability when building tall wall panels.

The AB Courtyard Collection is designed to let you build a variety of wall types. For taller walls you may find it desirable to add reinforcement to increase the stability of your walls. The 4 options below to show how this can be achieved.

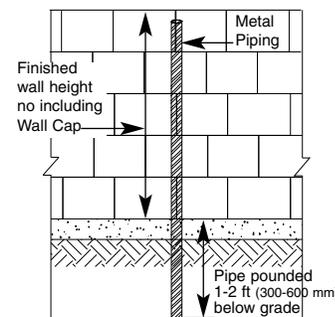
Adding Strength With Metal Pipes

Option 1:

Adding metal posts/pillars within your wall panels will provide hidden reinforcement and resistance to overturning. The pipe adds overturning stability to the wall.

You will need:

- 1 3/8 in. or smaller metal piping (like that used for the horizontal pipe in chain link fences)
- Large diameter pipe cutter
- Small sledge hammer or fence post/pillar driver



Install pipe as often as needed to achieve the stability you desire.

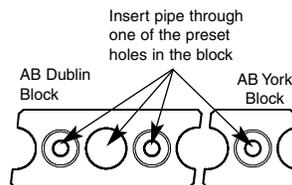
Step 1: Plan - Measure

Determine the length of the metal pipe by adding the height of the wall - not including the cap - and approximately 1-2 feet (300-600 mm) additional for the amount of pipe that will be pounded into the ground below.



Step 2: Place Pipe

After cutting the pipe to the appropriate length, slide the metal pipe down through the hole in the top course of wall blocks. Remove the top course of blocks as you drive the pipe to its desired depth. This provides room for the pipe to be driven into the ground.



Step 3: Drive Pipe

Pound the pipe into the ground using your sledge hammer or fence post/pillar driver approximately 1-2 feet (300-600 mm) deep or until desired stability is achieved.



Remove top blocks as you drive the pipe into the ground.

Adding Strength To The Wall With Adhesive

Option 2:

Securing the caps and top course of the wall together with masonry adhesive increases the stability of the wall. Secure the Wall Caps in place with a bead of masonry adhesive along both sides of the raised rings and along the side of each Wall Cap.



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Incorporating Curves, Corners or Posts/Pillars

Option 3:

Designing curves, corners or posts/pillars into the wall panels will add additional stability to the wall panel without any added steps.

See How-to sheets #130, #180 or #220.

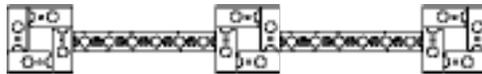
Curves



Corners



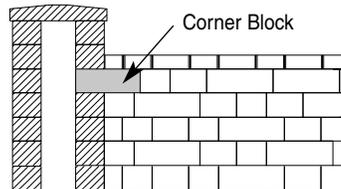
Posts/Pillars



Interlocking the Panels into the Posts/Pillars

Option 4:

Use Corner Blocks to tie the wall panels into the posts/pillars structures, by placing a Corner Block half on the wall panel and half within the post/pillar. This will interlock them together adding stability to the wall panel. See How-to sheet #230.



The information shown here is for use with the Allan Block Courtyard products only.



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