

AB[®]
Courtyard
Collection[™]

Building A Large Radius

Basic Steps for Building a Large Radius Curve



The AB Courtyard Collection is designed to let you build a variety of radiuses from circles to sweeping curves. If building on soils see How-to sheet #120 for more information about layout.

Build a Full Circle:

You can build a complete circle with AB York blocks. Build the circle by placing 28 AB York blocks with their long side facing the outside of the circle to complete the first course. Make adjustments as needed to fit the blocks. This is the tightest circle that can be made. Stack additional courses as desired. Finish with Wall Caps.



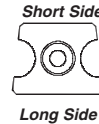
AB York center-split block



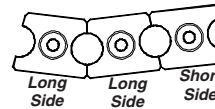
Wall Cap

To build a large radius curve you will use a pattern of blocks that is repeated throughout the curve. This pattern uses three AB York blocks to create a **radius of 112 in. (2.8 m)**. See the other patterns for larger radiuses on page 3.

AB York Block



Repeating Pattern of AB York blocks



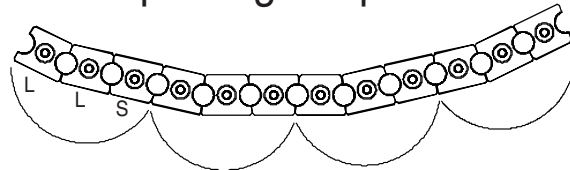
Step 1: Build First Course

Once the location is determined, start the first course by placing two AB York blocks with their long sides facing out. Place the last block in the pattern with its short side facing out. Repeat this pattern for the length of the curve. *When building curved walls it is best to build the first two courses at the same time. This helps align the blocks so additional courses continue to stack up properly.*

Step 2: Build Second Course

Use the same pattern on the next course. To start, place an AB York block with its long side facing out centered over two AB York blocks, with their long sides facing out. Place the next block with its long side facing out next to it followed by one with its short side facing out to complete the pattern. Again, repeat this pattern for the length of the curve. Adjust the blocks as necessary to align them along the curve and equalize the small spaces between them.

Repeating the pattern



Step 3: Continue Building

Using the same pattern continue building any additional courses to the top of the wall. Always start the pattern on a new course with a AB York block with its long side facing out over two of the same.



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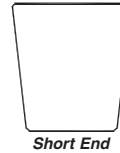
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Step 4: Wall Cap Pattern

Finish with Wall Caps using the same pattern as done with the AB York blocks. Place the first Wall Cap with its long end facing out centered over two AB York blocks, with their long sides facing out. Place the next cap with its long end facing out next to it followed by one with its short end facing out to complete the pattern. Repeat this pattern for the length of the curve.

Wall Cap
Long End



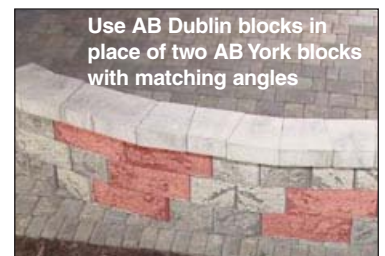
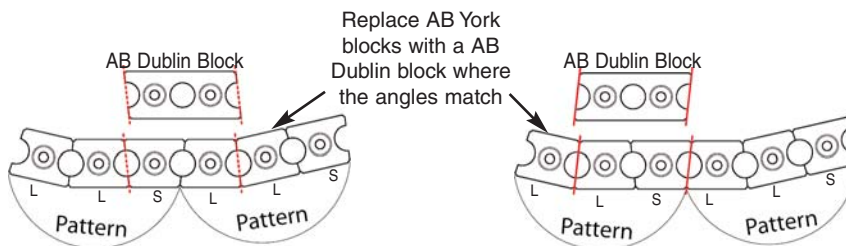
Step 4: Finish

Once all the Wall Caps are in place, secure them in place with a bead of masonry adhesive along both sides of the raised rings and along the side of each Wall Cap (adhesive optional).



Alternate Pattern

This example showed how to build using only the AB York blocks. You can also build this same curve with a mixture of AB York and AB Dublin blocks by replacing two AB York blocks for one AB Dublin block that have matching angles.



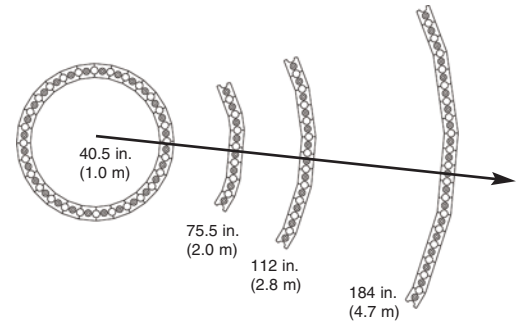
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Use the following two patterns to build larger radiuses. When building curved walls it is best to build the first two courses at the same time. This helps align the blocks so additional courses continue to stack up properly.

The radiuses of the block are preset. For a specific radius the blocks may need to be cut.



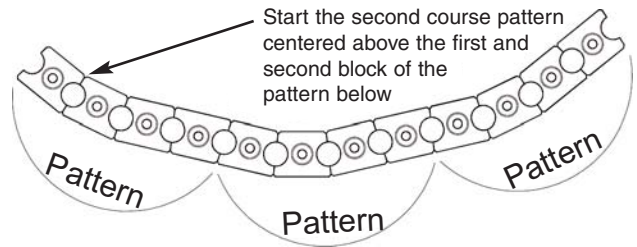
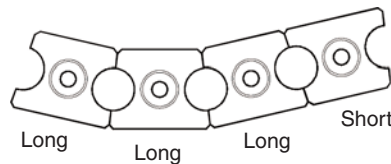
Pattern 2: 75.5 in. (1.9 m)

Use the pattern below to build a 75.5 in (1.9 m) radius. Start by laying out this pattern using the AB York blocks. If you would like to incorporate AB Dublin blocks in the pattern replace two AB York blocks with one AB Dublin block where the angles match. See page 2 for more information.

When placing second course, start the pattern above the pattern below and slide down to line up with the raised rings.



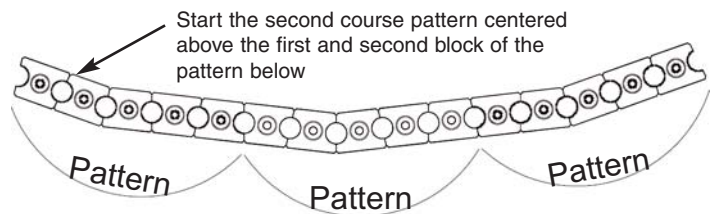
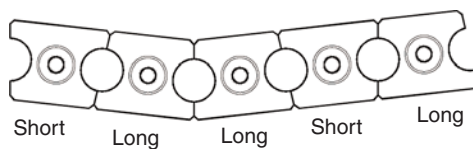
AB Dublin center-split block



AB York center-split block

Pattern 3: 184.0 in. Radius (4.7 m)

Expand on the pattern above by adding two more AB York block to the pattern will increases the radius to 184 in. (4.7 m). To incorporate AB Dublin blocks replace two York blocks where the angles match.



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

Wall Caps

Install the Wall Caps in the same pattern as chosen for the wall. Wall Caps also have a long and short end similar to the AB York blocks.



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