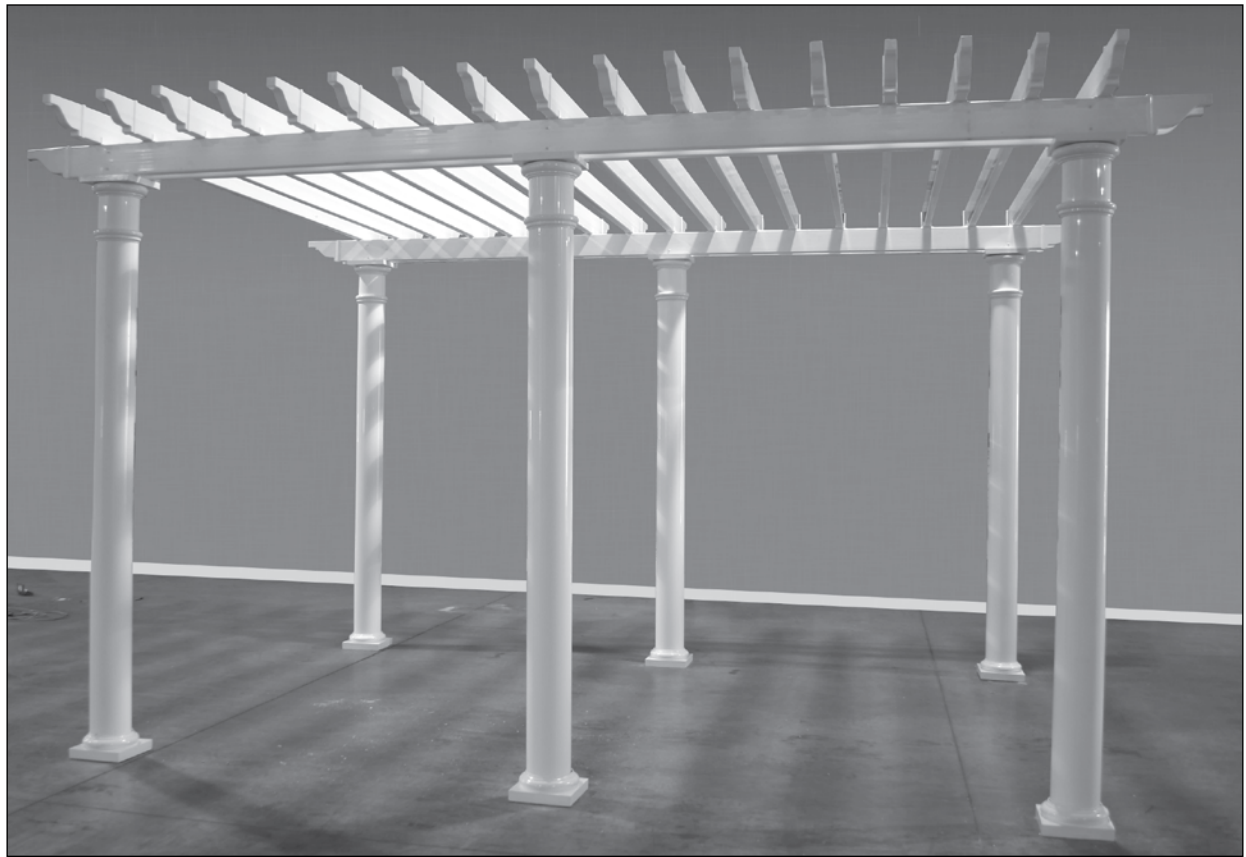
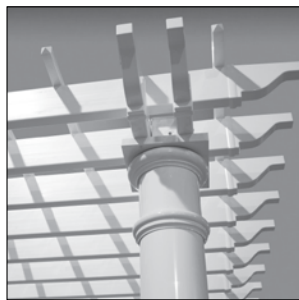




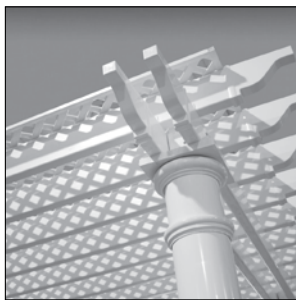
Pergola Assembly Instructions



Options



1 1/2" Squares



Lattice



Railing



Gingerbread Scroll
(For 5" & 6" Posts Only)

Site Preparation

Site preparation for either the round column or the 5" post pergola should include insuring that the layout is true. Begin by creating a rectangle with the sides parallel to each other.

While there is flexibility in the size that you determine for your installation it is advisable to review the table on page 4 of this document before establishing your layout.

Also, railing sections come standard in 4', 6', 8', and 10' lengths and while there may be some modification of the length for installation, it is prudent to plan the assembly so as to not waste material.

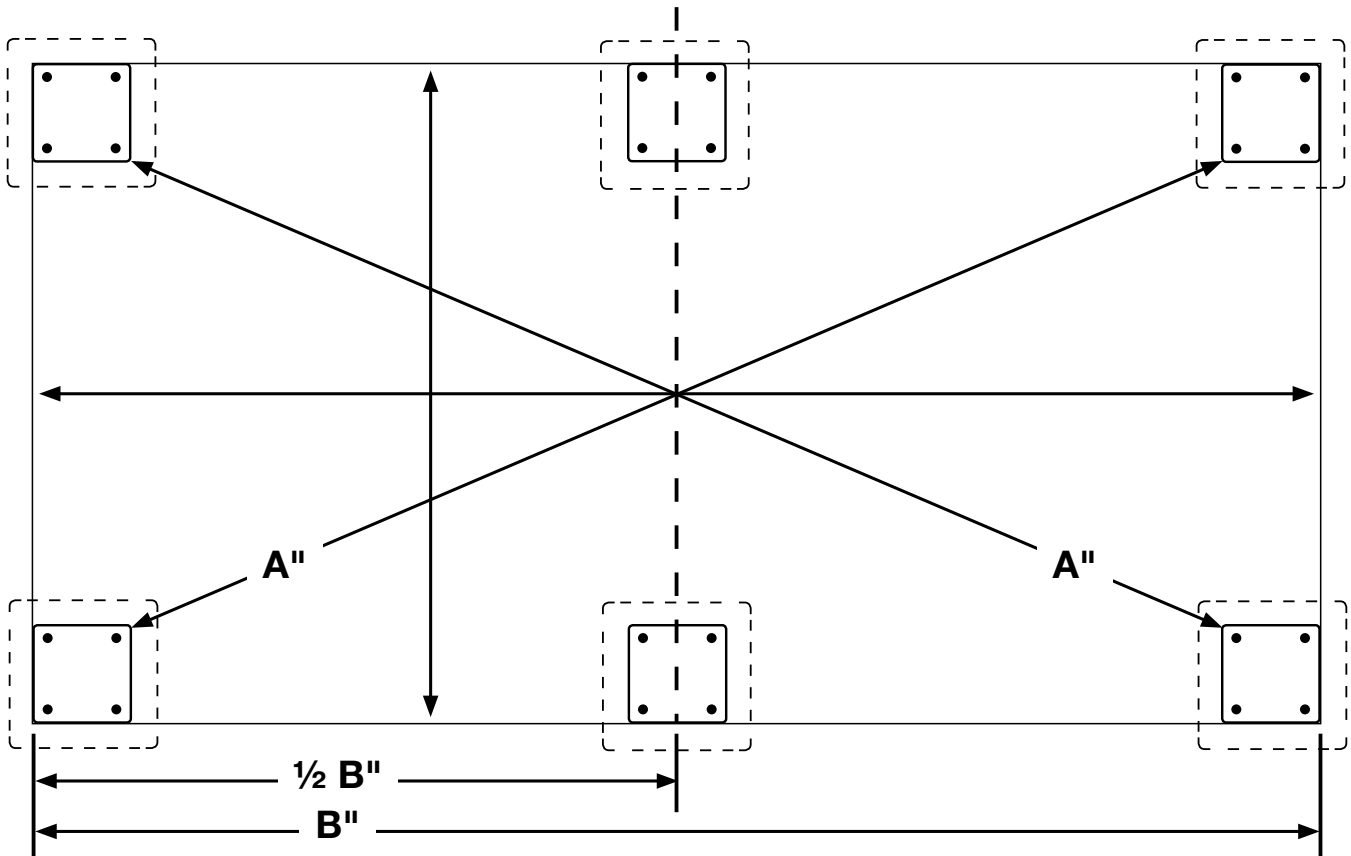
Square can be determined by measuring from one corner of the layout to the other. Both of these measurements should be the same. See in the diagram that $A = A$ to be square. If they are not, adjust the layout until they are.

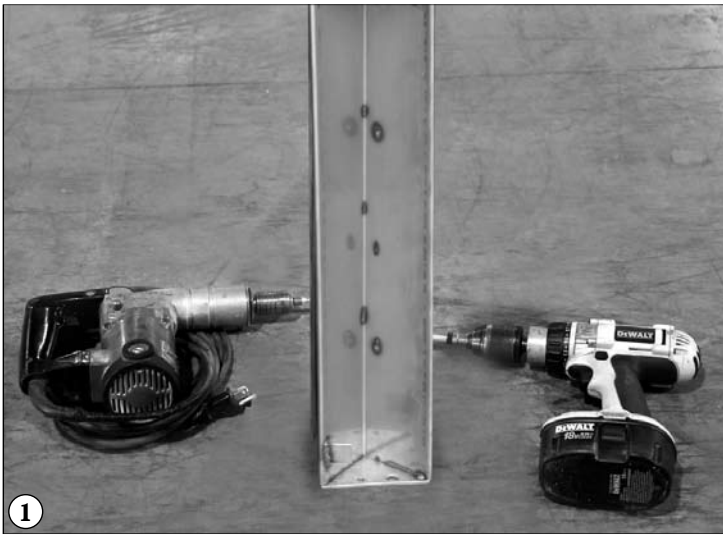
Layout the placement of the post brackets insuring that they are in line. Mark where the post footer holes should be dug.

Posts should rest on concrete that is 4" thick or more. Surface needs to be flat, and the layout square. Concrete should be at least 4000 psi.

Use a chalk line to position the brackets before marking the location of the securing bolts prior to pre-drilling the holes. Center the middle post bracket keeping it on line with the corner brackets.

Site Layout





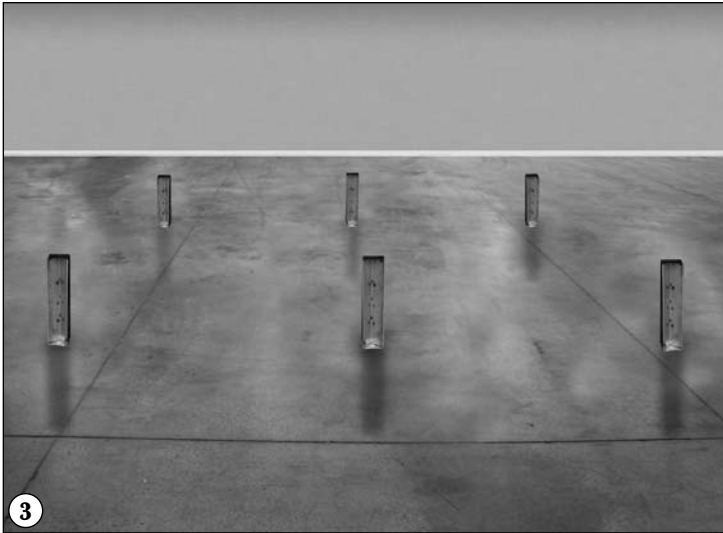
1

Begin by pre-drilling 1/2" holes into the concrete with a masonry bit after marking their location through the base plate of the post bracket. Using a hammer drill drive the wedge bolts into the concrete securing the base loosely.



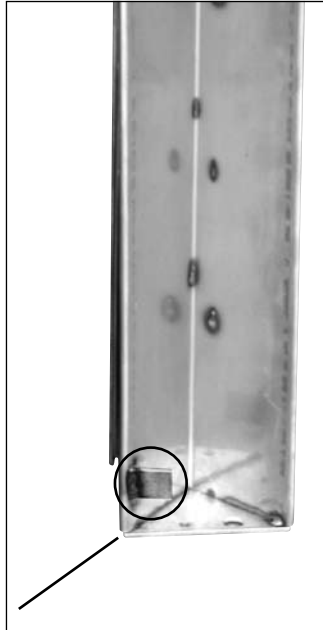
2

Using a level, ensure that the post bracket is plumb tightening the adjustment bolts accordingly.



3

With the posts plumb, fully secure the bracket by tightening the wedge bolts into the concrete.



Extreme High Winds

If extreme high winds are a concern, additional security can be attained by driving a 1" screw through each post under the tab, 1" up from the deck. Mark the location of the tab as shown at left and secure after step #23.

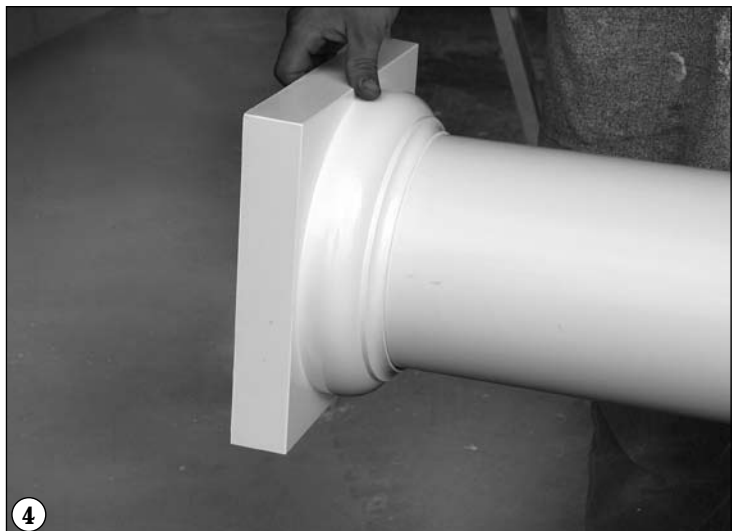
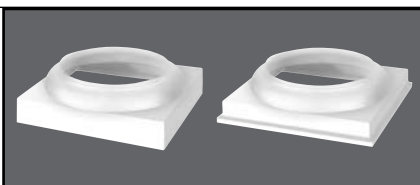
For 5" & 6" Posts

Having carefully reviewed the installation instructions for the larger round column, you will find that the smaller formed post designs are assembled in much the same manner.

Determine the location of the posts in your design and follow the instructions included with the posts. Install them in their appropriate locations using the uplift option.

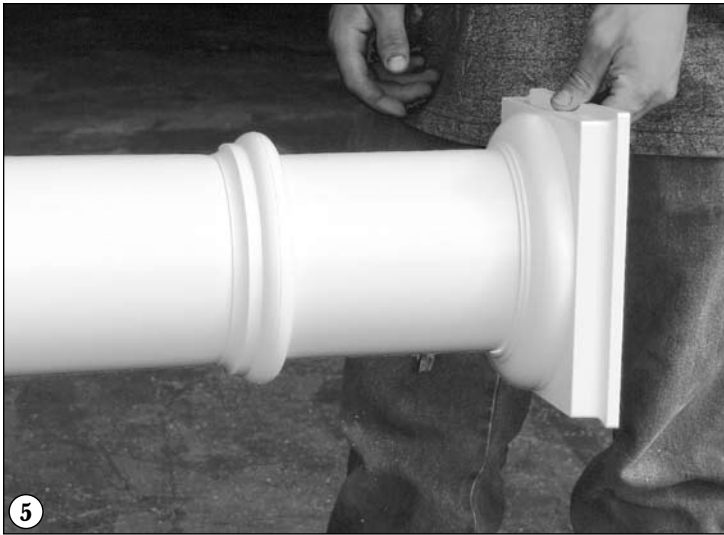
Proceed to step 14

Vinyl top and base trim included with kit.

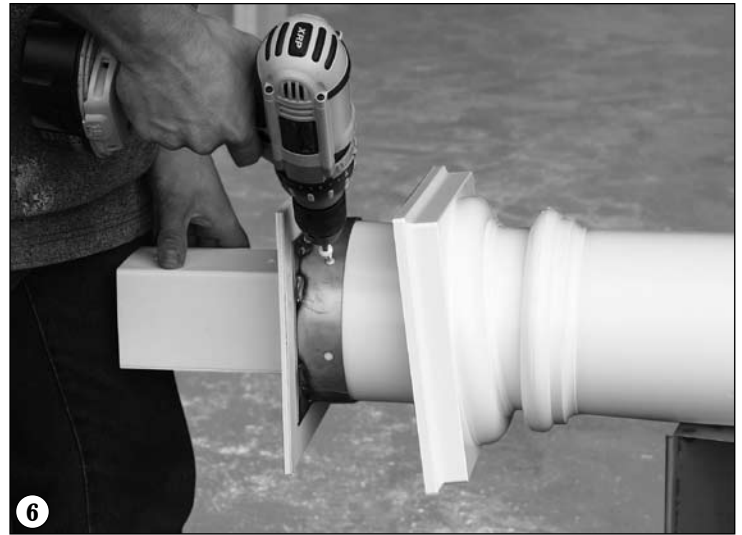


4

Place the bottom trim ring onto the bottom of the post as shown.



5 Slide the mid trim ring and top trim ring over the top end of the post, as shown.



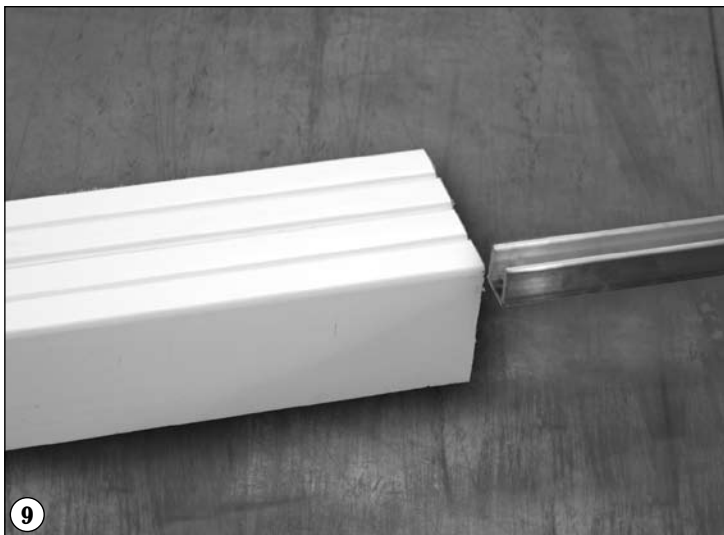
6 Insert the beam-mounting block assembly onto the top of the post and secure using #14 x 1" screws.



7 Carefully slide the post over the post mounting bracket.



8 Repeat steps 4 through 7 with each post. Posts are now ready to proceed with the installation of the beams.

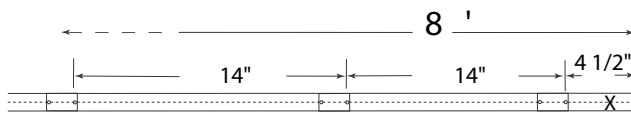


9 Insert the aluminum channel into the top of each beam, as shown.

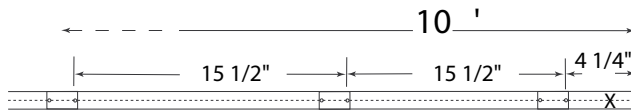


10 Lay the four beams together, as shown, and using a carpenter's square, align the ends.

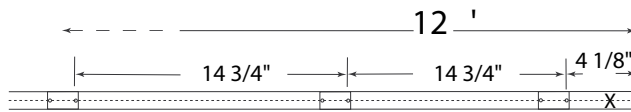
Runner Mounting Bracket Placement Guide



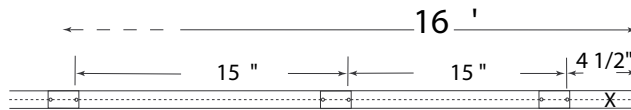
Requires 7 runners



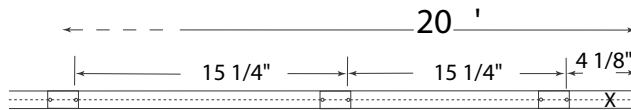
Requires 8 runners



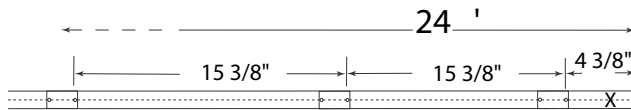
Requires 10 runners



Requires 13 runners



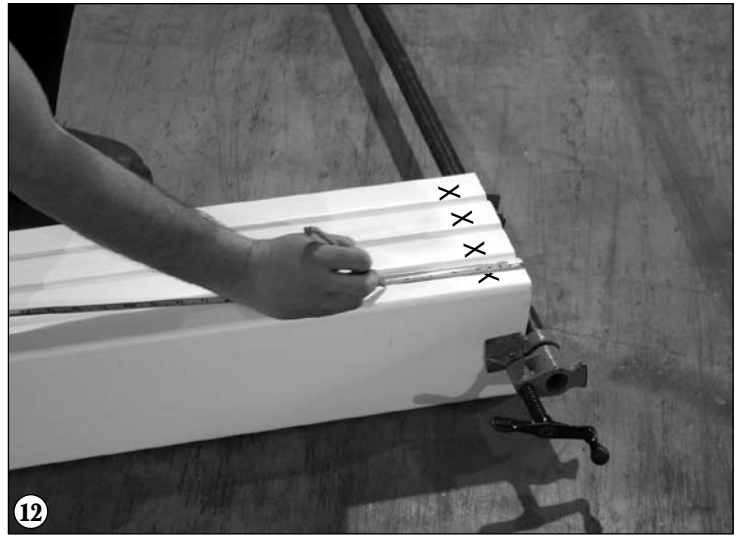
Requires 16 runners



Requires 19 runners



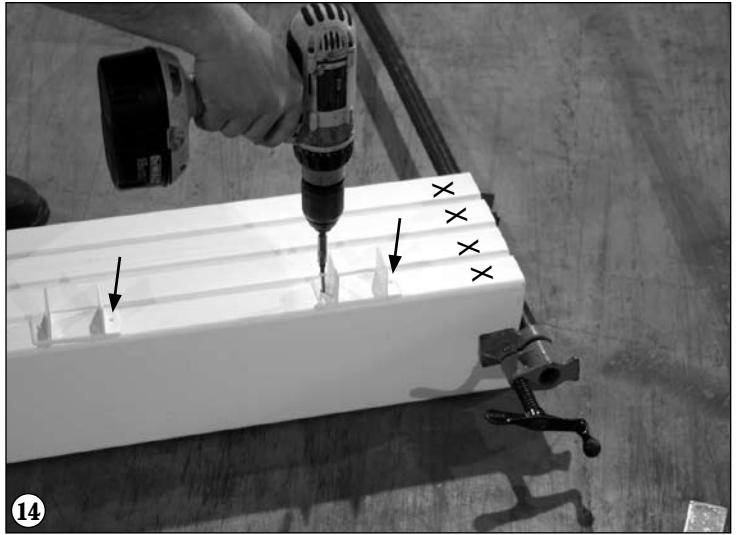
11 With the four beams together, as shown, clamp the group with the ends aligned. Make an X on this end only.



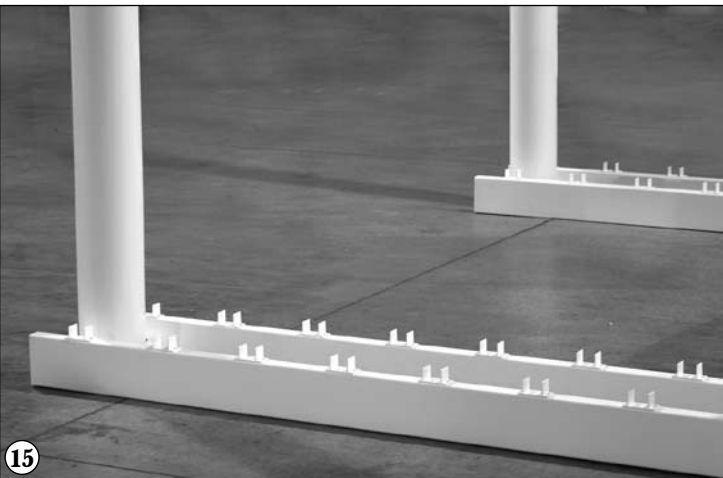
12 Using a pencil, mark the position of the rafter mounting brackets. Refer to the table on page 4 of this manual. Make sure to refer to the guideline for your size pergola. Position the first hole as indicated, working from the X previously marked on the beams.



13 Again using the square, carry the bracket location marks across all of the beams. All additional brackets are positioned from the first hole in the first bracket.



14 Center the brackets on the beam, with the "position mark" centered in the leading hole of the bracket. Secure with #8 x 1" screws.



15 Using care that each beam is oriented as it was when the rafter brackets were installed, lay the beams so that they are convenient to be raised into position on top of the posts.

For 5" & 6" Pergolas

5" & 6"



16

Beams are attached to the posts by pre-drilling holes through the beam into the aluminum inner post. Center the beams using a measuring tape, insuring that there is an equal amount of "overhang" on each side, and that all of the ends marked with an X are on the same end and aligned with each other. Secure the beams with #14 x 4" screws.

For 5" & 6" Pergolas

5" & 6"

After assembling the modular trim rings at the top, slide them up until they are snug against the beams.



17

Raise each beam into position on top of the post.



18

Ensuring that the beams are aligned with each other resting on the top of the post plate, using a $\frac{3}{16}$ " bit, pre drill holes through the beam into the beam mounting block, approximately $1\frac{1}{2}$ " from the top and bottom. Use an extra long drill bit in order to reach through the beam into the mounting block.



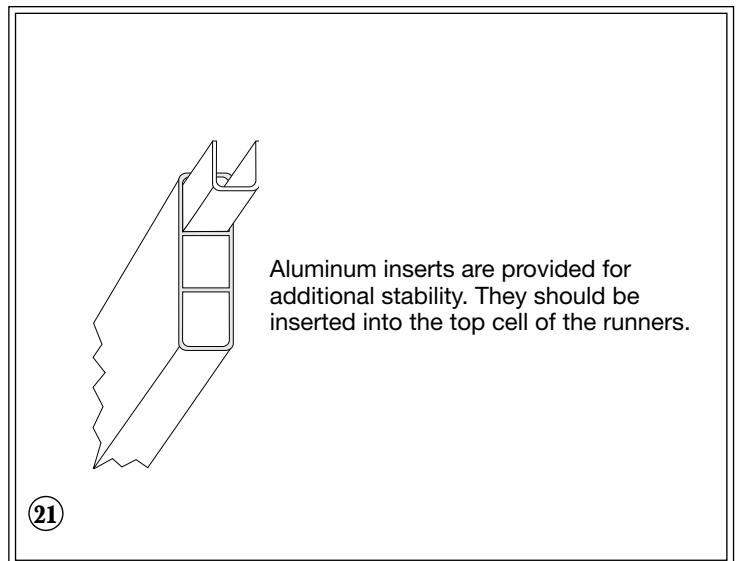
19

Secure the beams to the beam mounting block with #14 x 4" screws at the bottom and top.



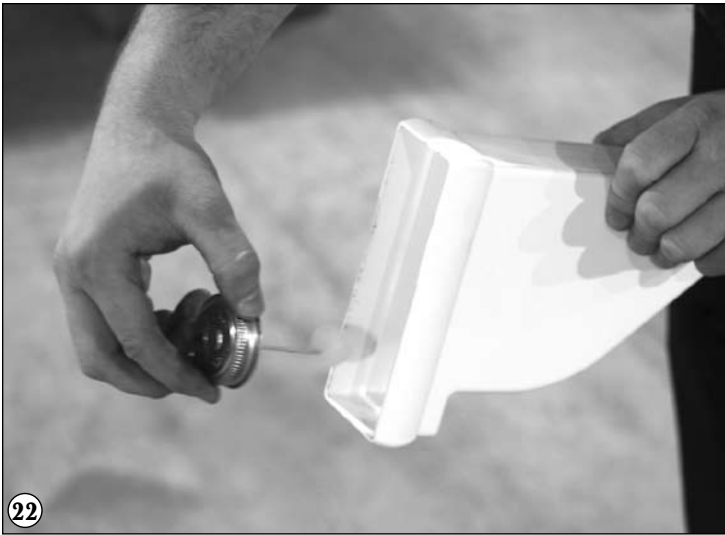
20

With the beams secure, slide the top trim into position and secure using #8 x 2" self drilling screws.



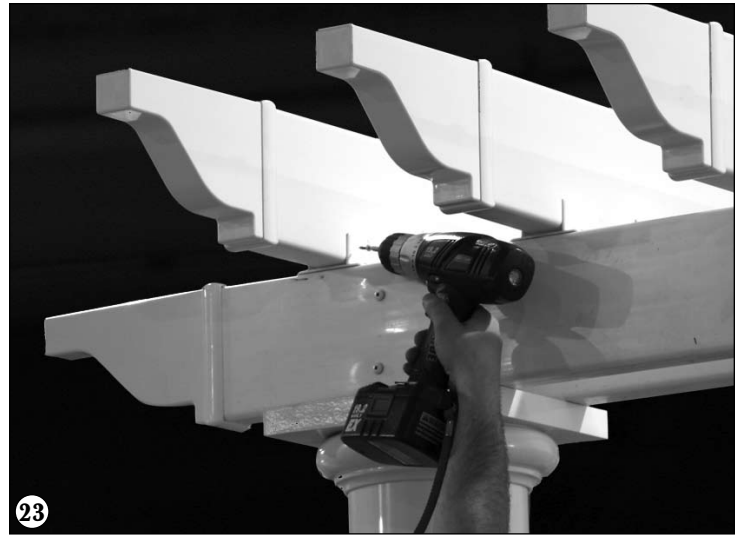
21

Aluminum inserts are provided for additional stability. They should be inserted into the top cell of the runners.



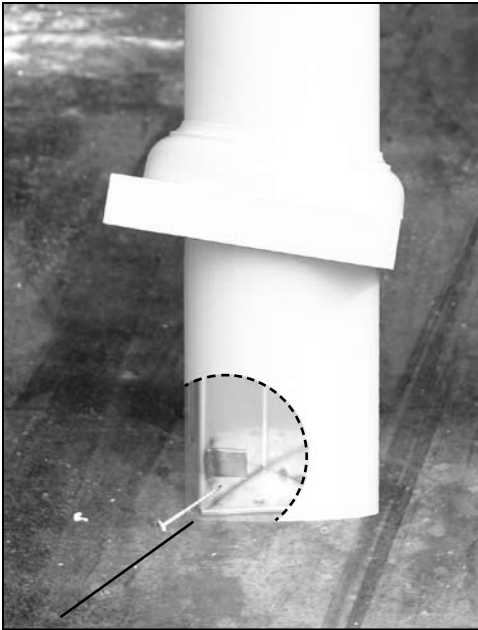
22

Glue the ends onto the rafters following the instructions on the container of glue supplied with the kit.



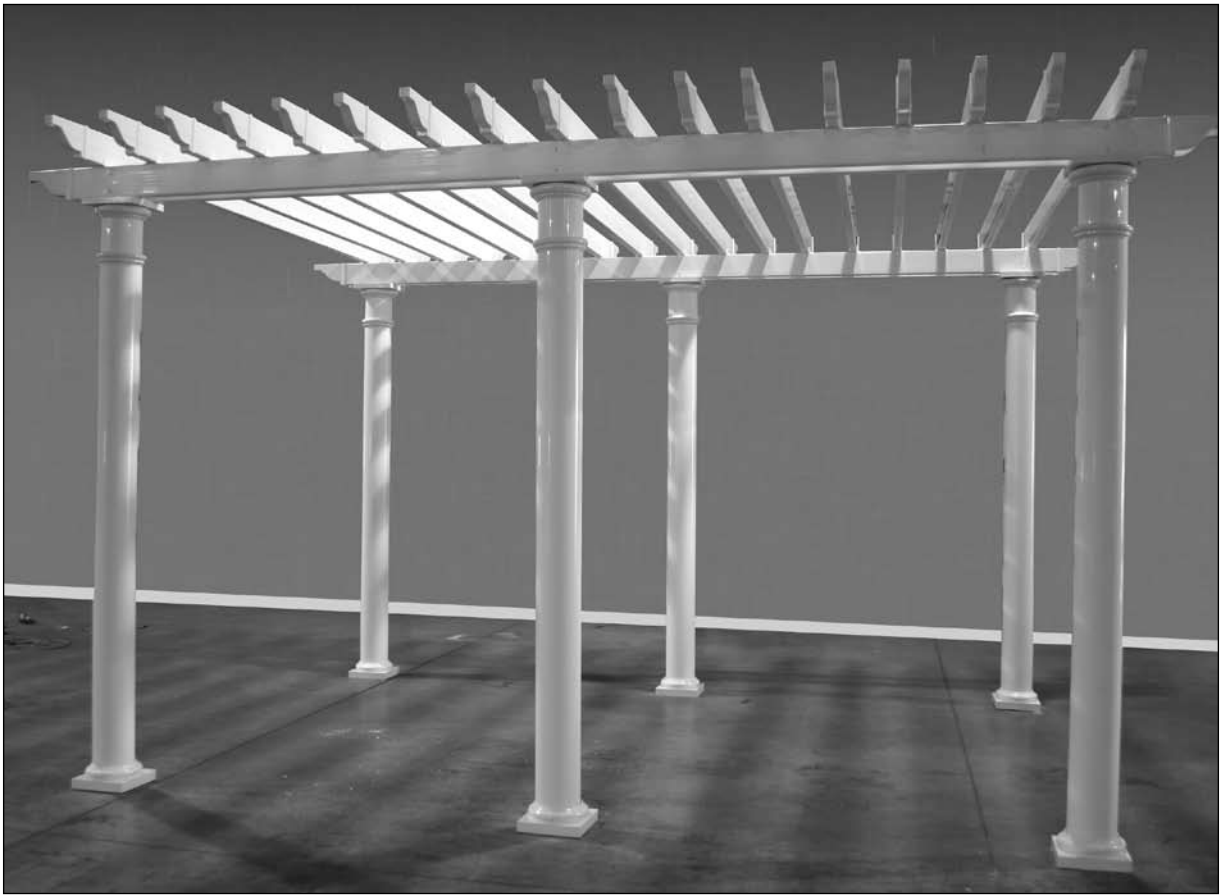
23

Raise and position rafters using a measuring tape to center each rafter on the beams. Secure each rafter by driving #8 x 1" screws through the rafter mounting brackets into the rafters on each side.



Extreme High Winds

If extreme high winds are a concern, additional security can be attained by driving a #14 x 1" screw through the post under the tab, 1" up from the deck and slightly to the right of the line made after step #3.



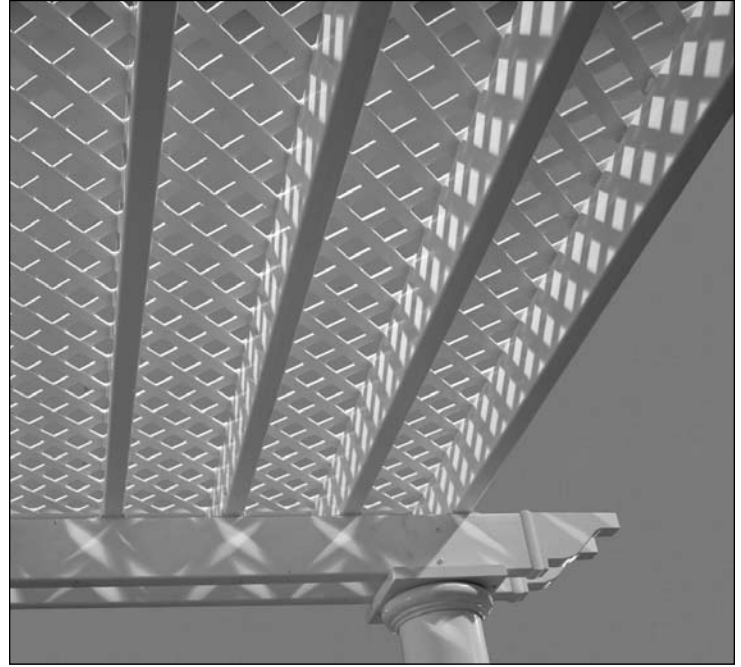
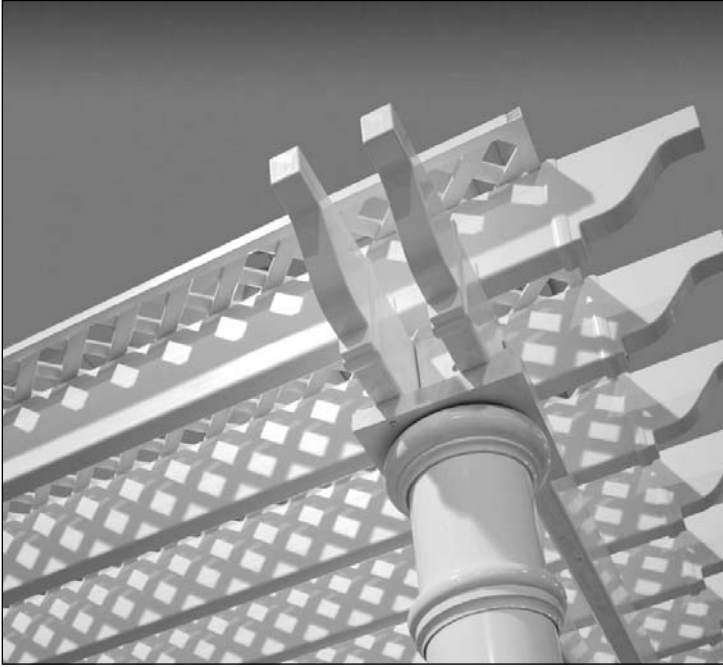
Round column assembly completed.



Molded column assembly completed.

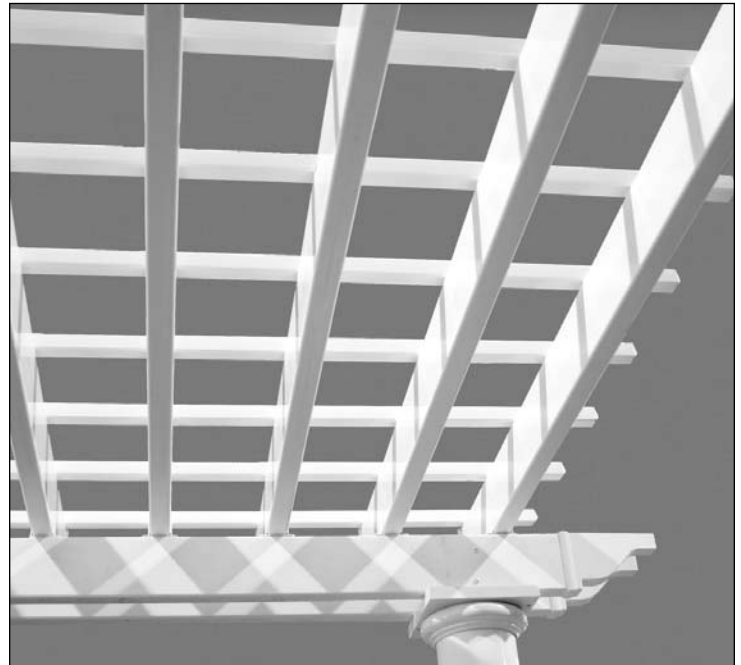
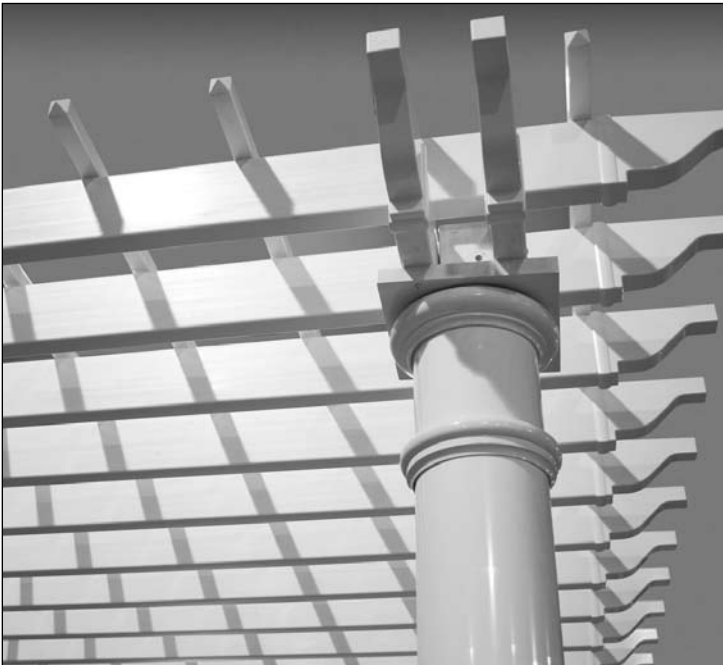
Installation Options

Vinyl Lattice



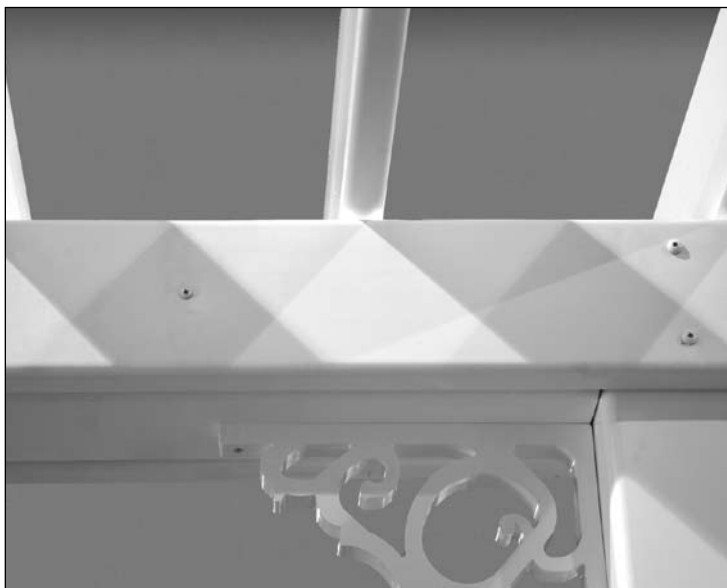
Lattice can be installed on the top of the rafters. Allow approximately 4" to overhang the edges of the rafters on the ends with the lattice extending out to where the pergola end caps begin. Channel is installed on each raw edge of the lattice and secured with screws.

1½" Squares



1½" squares can be arranged on the top approximately 12" apart with end caps glued onto them. Notice this example has the squares beginning where the pergola caps begin.

Gingerbread Scroll



To install the gingerbread scroll, first cut a section of 5" x 5" vinyl stock to the length between the posts.

The 5" x 5" section is screwed between the posts from the inside using 2½" screws.

Follow the instructions with the package that the gingerbread scroll is shipped in.



Railing

For 5" & 6" Pergolas

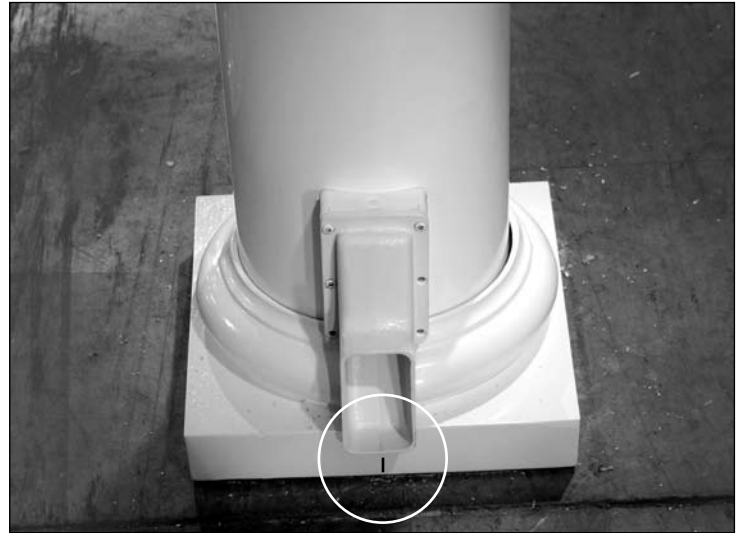
5" & 6"

Railing is installed following the instructions in the box in which the railing was shipped.

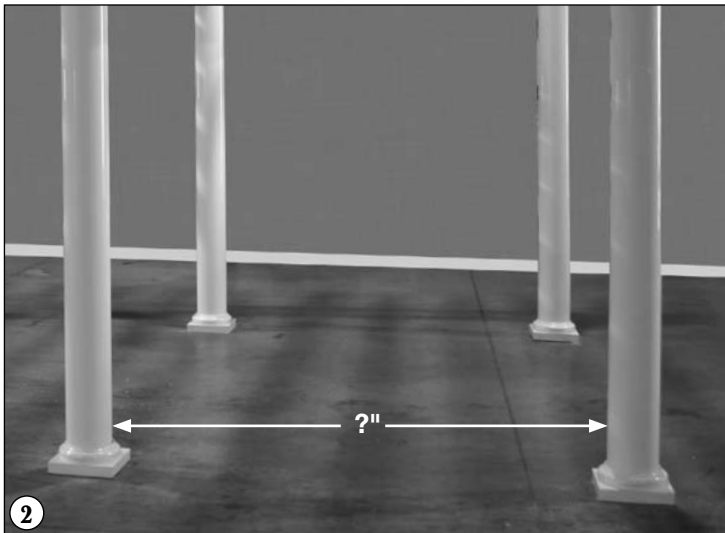
If you have chosen to include railing with your installation there are two options for mounting the bottom rail. The option shown here results in there being only two inches from the bottom of the rail to the deck. This may be required for some installations where there is a significant drop to the next level below the deck. Check with the code requirements in your area for specific requirements. The alternative results in there being 4" below the rail and this alternative is installed in the same manner as the "T" rail mounting bracket.



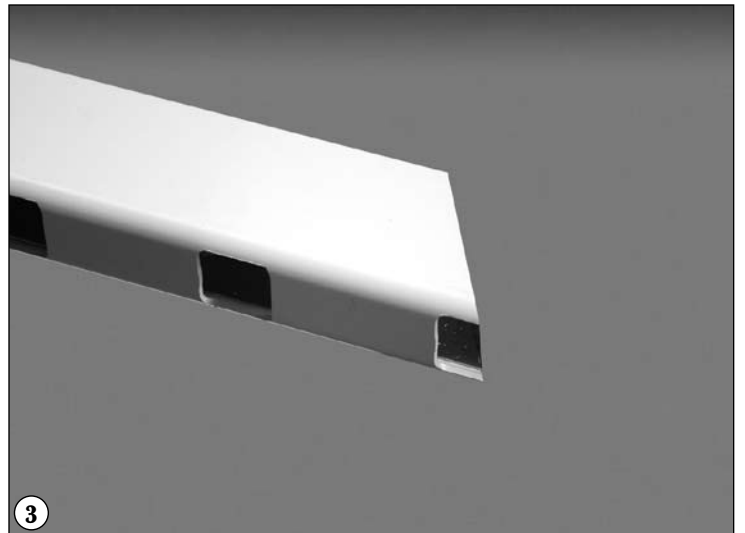
In either case, install the bottom bracket onto the post resting on the trim, as shown.



First mark the center of each post trim base. Center the bracket and follow the instructions included with the railing package.



Measure the span between the two posts and subtract $1\frac{1}{2}$ ". Divide the result in half and, from the center of the rail, measure back that distance on the routed side of the rail. Mark that position and measure the total length as determined. Following this procedure should provide a bottom rail that has equally spaced balusters and equally spaced excess on both ends.



Using a carbide tip fine-tooth cutting blade, cut at a 22° angle to remove the unwanted material. Remember the cuts start at the top of the rail and travels in on both ends resulting in a keystone shaped piece.



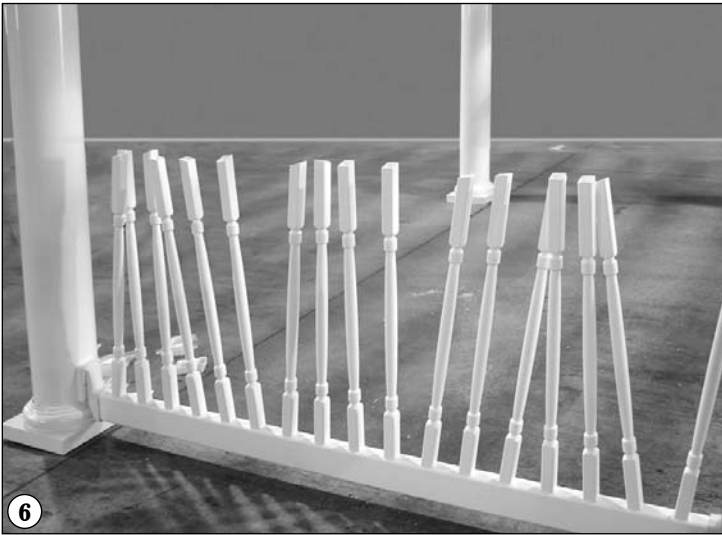
4

Slide the other bracket onto the end of the rail and fit the rail into the bracket installed in the first step.



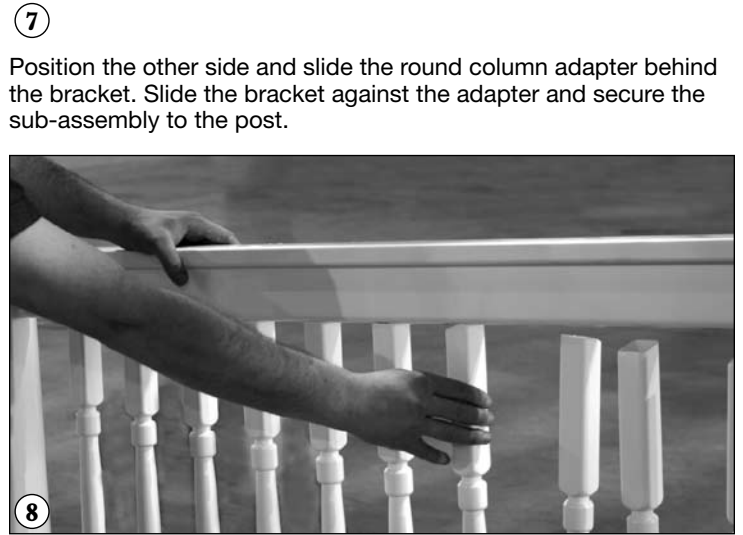
5

Position the other side and slide the round column adapter behind the bracket. Slide the bracket against the adapter and secure the sub-assembly to the post.



6

Place the balusters into the pockets in the bottom rail.



7

Position the other side and slide the round column adapter behind the bracket. Slide the bracket against the adapter and secure the sub-assembly to the post.



8

Slide the "T" rail brackets onto the top rail and, starting at one end, fit each baluster into its appropriate pocket.



9

Position the top rail on the post so that it is plumb with the bottom rail and secure the brackets as in the previous steps.



10

Repeat these steps for each section to be installed.

