Treated Pine / Cedar Inline Pergola

Pictured: 4 × 8 Cedar Inline Pergola

Components:

Post – 2
Beams – The beams sandwich the top of the posts. There is one 2 × 8 on each side of the post
Runners – Runners vary by size, spaced approximately 16” on center
Top runners – Number varies by size. Standard spacing is 12”.
Corner Braces – 1 per post.

Hardware:

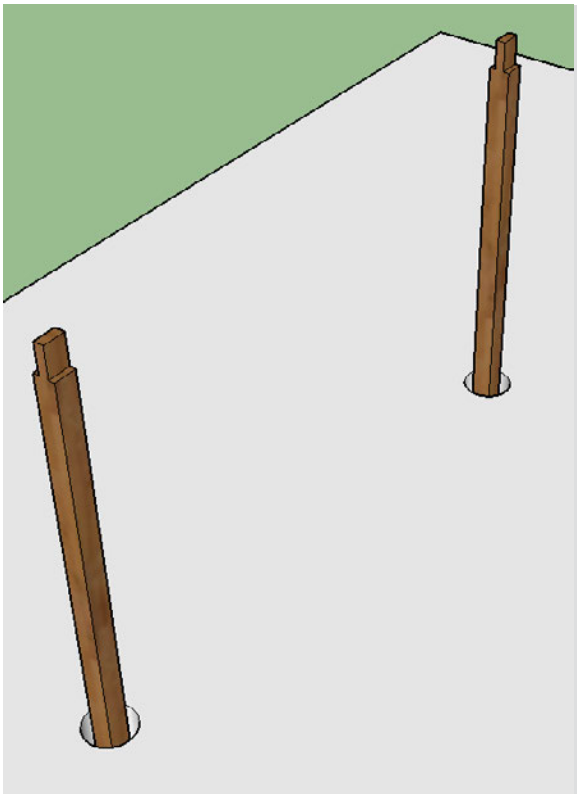
See the parts list that comes with your pergola for quantities on each component.
Kit includes a #2 square head bit for use with screws provided.
Tools needed: Ladder, Level, Tape measure, square, screw gun.

Layout

Pergolas are designed to be set two feet in the ground, with sent posts being 10’ long. Wooden Posts can be concreted into the ground or you can finish the entire pergola and then pour concrete after it is built. This is generally best to do on smaller models.

1 Layout the locations of the posts. The named size of the pergola – for example a 3’ x 12’ means the outer edges of the posts are 12’. You can dig holes that are centered 6” less than the named size of the pergola (in this case 11’6”). The minimum diameter for the holes is 12” for best results.

2 After holes have been dug, set the posts in each. Make sure that the notches in the tops of the posts are aligned. Also you need to make sure that the tops of the posts are level, and the posts are plumb. You can attach scrap lumber to the wood posts to hold them in place. Also make sure that the top of the posts are the same distance apart as they are at the bottom.



3 If you plan to concrete the wood posts before building the pergola, this is very important because you will not be able to move the posts after the concrete is set up.

If you are planning on building the pergola before pouring the concrete, you will need to make sure that the post locations are close. You will be able to plumb the posts once the pergola is done before pouring the concrete.

You can add gravel or loose dirt to keep the posts plumb as well, but will need to remove it later.

4 Once posts are mounted, you are ready to install your 2 × 8 headers.

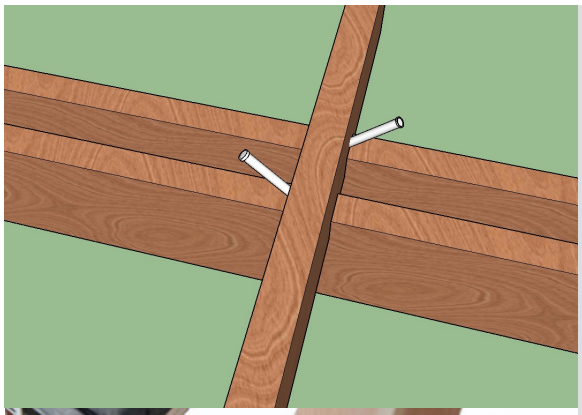
5 See pencil mark on inside of header. Make sure the marks are on the outside of posts.

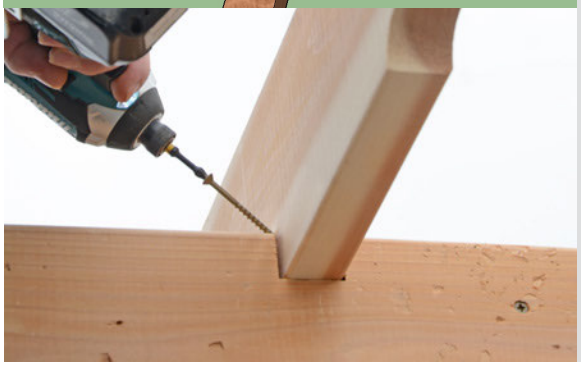
6 Fasten 2 × 8 to post with 3 3.5” screws per side. Complete this step on both ends of the beam.

Make sure the beams are aligned before tightening screws.

7 You are now ready to install your 2 × 6 runners.

8 Putting them in notches as shown, measure each side until it is evenly spaced.





9 Fasten 2 × 6 runners to headers with 1 3.5” screw at a 45 degree angle per header. Complete this step until all runners in place, repeating on both directions as shown.

10 Installing top runners – place at marks on top of runners.

11 Fasten top runners with 1 2.5” screw per pre-drilled holes.

12 Install braces, 1 per post. Fasten brace to post with 2 5” head lock screws.
Fasten top of brace with 2 2.5” screws on both side of headers.

Ensure that the braces are the same distance from the header.

13 Your pergola is now complete. If you have completed the pergola and will now be pouring the concrete, you need to make sure that posts are plumb. Prop up with supports, wood 2" x 4" etc. Keep props in place until the concrete is set up.