



SERENITY CEDAR PERGOLA KIT

FREESTANDING ASSEMBLY MANUAL



Shown - 10'x14' Serenity Cedar Pergola Kit

Thank you for purchasing the 4 Beam Wood Pergola. Depending on the size of the pergola, installation can usually be completed in a day. These instructions apply to both cedar and treated pine models.

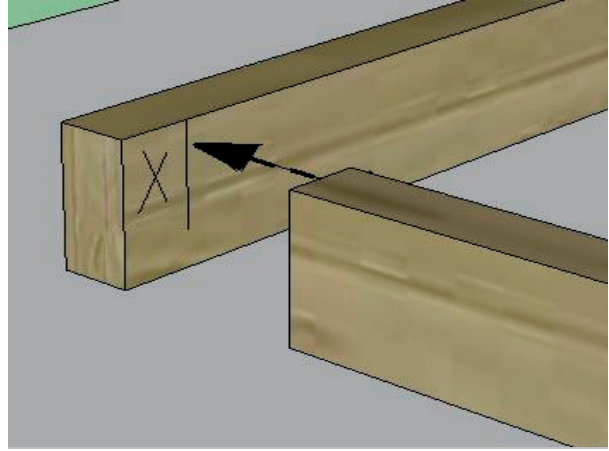
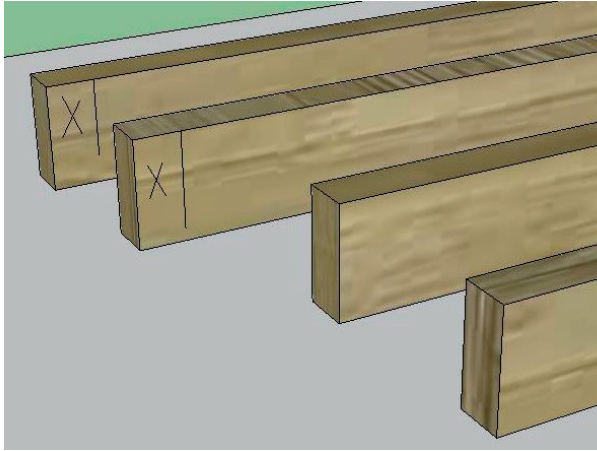
There are a few things you should consider before installation:

- 1.) Do not store the Pergola components in direct contact with ground concrete, or other moisture wicking surface as this may warp the components.
- 2.) The base for the pergola must be solid and level. If installing on a concrete slab or on concrete footers, it should be level where the posts will rest. If not, it may be necessary to cut the bottom of the posts so that the tops are all level. Other than this, no cutting is necessary. If any additional cuts are needed, please contact us before doing so. ***Making cuts without calling first may make installation difficult and may void our warranties.***
- 3.) These instructions show connection to asphalt using a wedge bolt. The same method can be used with concrete. If connecting to an existing deck, a lag bolt and deck screws (not included) will replace the wedge bolt.
- 4.) The 4 beam pergola does not give the ability to alter the location of the posts. It is important they are laid out correctly and double checked for accuracy before permanently attaching it to the base.

* If you purchased a Pergola with the Heavy Duty Post Brackets, refer to the additional instruction sheet that will be included in your kit.

SECTION ONE - POSTS

Setting up the template:



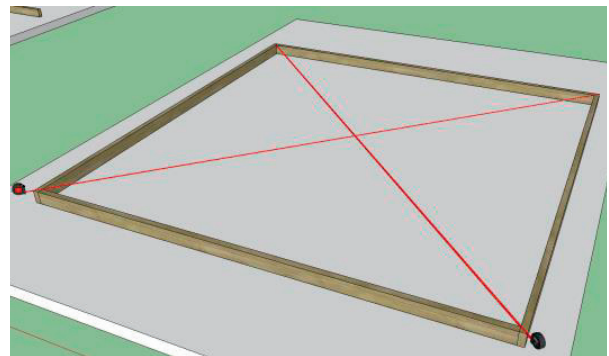
1.) Your pergola kit includes a wooden template that is used to mark your post locations. Notice that two of the 2x4 boards have a marking near the ends. Build a box that will reveal the outside corners of the posts when properly placed.

NOTE: If you purchased a larger pergola your template will be spliced in the center, just match up the letters and fasten together with (2) screws.



3.) Connect the corners of the template pieces by driving two 2 1/2" screws through the side of the template boards.

2.) Arrange the template pieces so that they are positioned in the exact location of where the pergola will be placed. The boards with the marking on the end will be across from each other. The marks will show where the other boards will be attached to create this box.



4.) When the template is in position, square the template. Do this by measuring diagonally from one corner to its opposite corner, then measure diagonally between the other two corners. These two dimensions **MUST** be the same. Adjust the template until the diagonal measurements are identical.



5.) Once the template is “square”, mark the post locations using the INSIDE corners of the framed box on a concrete slab with a pencil. After all the post locations are marked on the concrete slab, remove and set the wooden template aside.

Set the Brackets

6.) The brackets are the 8 L-Brackets in the hardware box. Place them at the outside of the pencil mark, one per corner. Next, drill a hole into your concrete footer or slab. Using a ½” masonry bit, drill a hole through the bracket about 1/2” deeper than the length of your anchor bolt. Make sure all of the concrete dust is cleared from the hole, use a vacuum if needed. Add the washer and put the nut on the bolt so the threads are just above the nut. You may need to hit it down with a hammer, you can use a 2x board to hit the top of the bolt so you do not damage the threads on the bolt. Hammer the bolt down until 3/4” of anchor is exposed. Tighten the nut, and the base of the bolt will expand. Once completed, install the rest of the brackets, one per corner. If you purchased a pergola with more than 4 posts, install a bracket for each additional post.





Setting the Posts

7.) Attach all the posts to the bracket using (5) 2-1/2" screws per bracket.



Post Bases

8.) Now you are ready to install the Post Bases. Get a ladder and slide the base over the top of the post (see picture above). There are (6) screws per base, it does not really matter which way they are turned, although we recommend keeping the screws turned in the same direction. Repeat this step for each post.





Install Headers

9.) Now you are ready to install the headers. It does not matter which side you start on. Fasten the posts using (5) 2-1/2" screws, keeping it even on top and center of the posts. We recommend keeping the screws on the header turned on the inside of the pergola. Repeat the step for all sides.

NOTE: Note: If the pergola is over 16' long, there will be a center post, making two sets of beams for each side of the pergola. Installing the beams is the same no matter how long or how many beams there are.



Install the Top Plate

10.) The top plate is a piece of 2' x 8' wood that is precut to fit on top of the beams. Rest all 4 pieces on top of the beams. Arrange them so that they fit tight at the corners.

NOTE: On larger pergolas, there may be more than 4 top plates as some of the sides will need more than one board.) Two of the top plates have marks for positioning the runners – these are usually set on the longest dimension since runners span the short dimension. On square pergolas, the parts are interchangeable, but the top plates with the markings need to be on opposing sides. Be sure that the markings are facing up as shown on top.

Joining the Top Plate Pieces

11.) The top plate pieces must be joined together before attaching them to the top of the posts or to the beam. Place 3 1/2" screws on an angle at the corners as shown. There are no pre-drilled holes. Since the screw is close to the end, pre-drill a 1/8" hole (see left).



NOTE: On larger pergolas, your top plates will be spliced, just match the letters together and continue with the step.

Attach Top Plates

12.) Position the assembled top plates so that the seams in the corners are centered across the corner posts. The top plate will overhang the beams by about $\frac{1}{2}$ " - 1" on the inside. Before attaching to the posts and to the top of the beam with 2 $\frac{1}{2}$ " screws, make sure that the overhangs are the same along the entire perimeter. Attach with two screws at an angled cut into the top of the wood posts and then along the beam approx. every 24".

Once you have fastened all corners, screw plate to header with (2) 2 $\frac{1}{2}$ " screws approximately every 24".



Anchor remaining Posts to Concrete

13.) Sliding the base up towards the top you can fasten it to the post with a screw to keep it from falling down. Make sure the posts are level and still at the L-shaped pencil mark. Screw the second bracket to the post using (5) 2 $\frac{1}{2}$ " screws. It does not matter which side of the post, however we recommend going caddy-corner. Keep in mind you should stay approximately 4" away from the edge of the concrete. Refer back to step 6 for setting the brackets. Once completed remove the screw and place the base in its correct position.

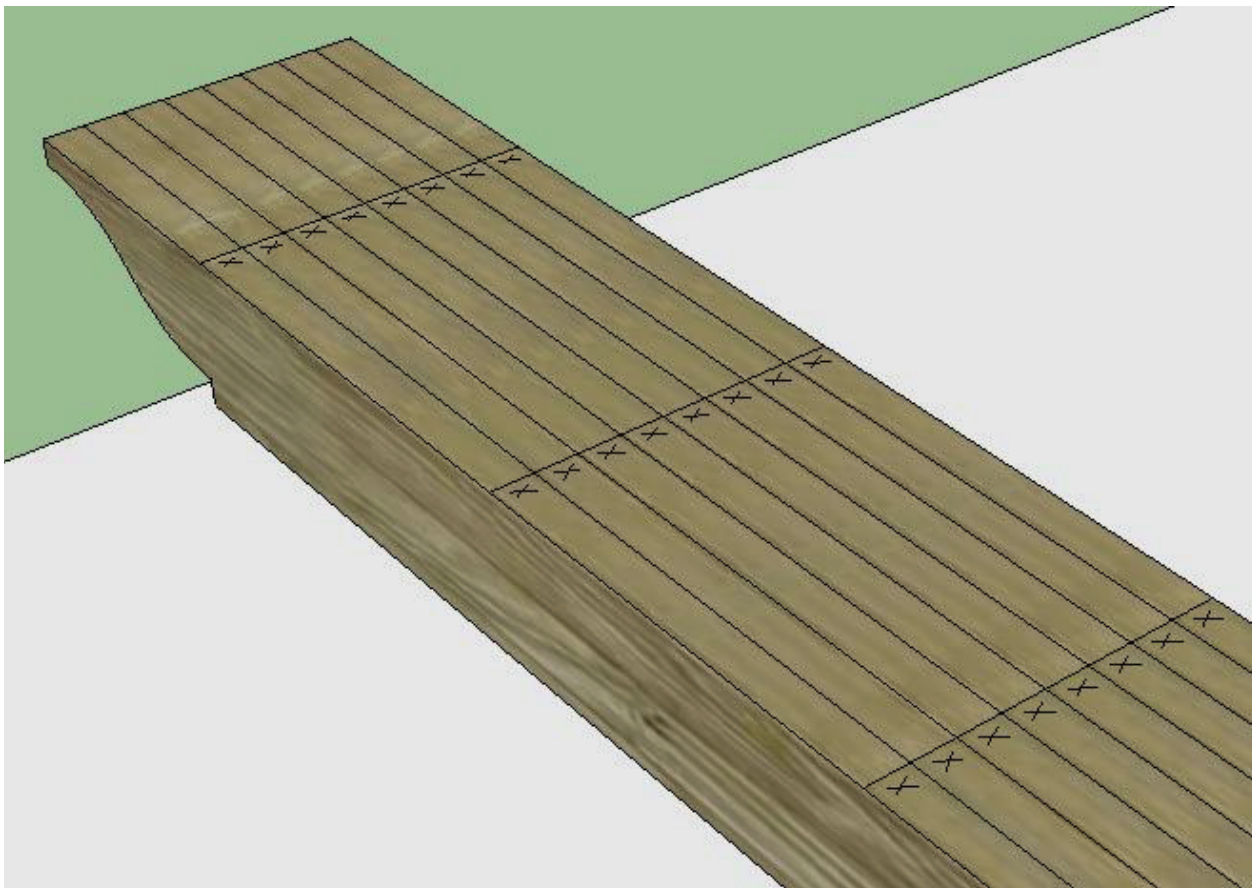


SECTION TWO - MAIN RUNNERS

The main runners are 2'x6's that have decorative cuts on both ends (unless a special order). They have markings on the top for the top runners.

NOTE ABOUT SPACING: Generally both the main and top runners are spaced 16" on center unless you order other spacing. Since the first runner on each side will align with the edge of the top plate as explained below, the spacing may need adjusted. This is done during production and the marks made accordingly. Most importantly, the top runners have notches that coincide with the calculations made. Never change the placement of the main runners, or the top runners will not fit.

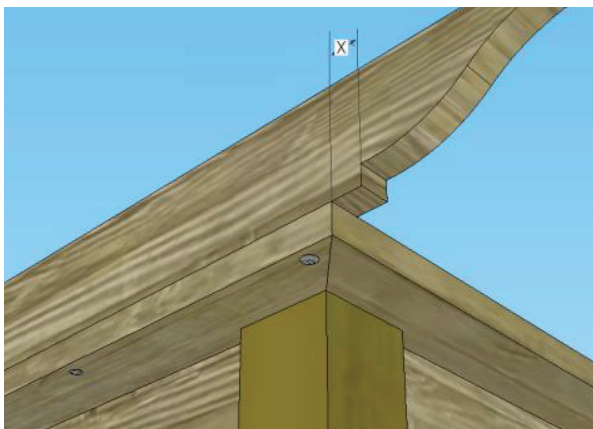
Since the top runners have notches, the overhangs cannot be adjusted later. These runner notches are "symmetrical" but the markings will be backwards if not arranged correctly. It is a good idea to lay all the runners down next to each other to make sure the lines and X's are aligned. Make sure not to flip the direction when installing.





Set the First Main Runner

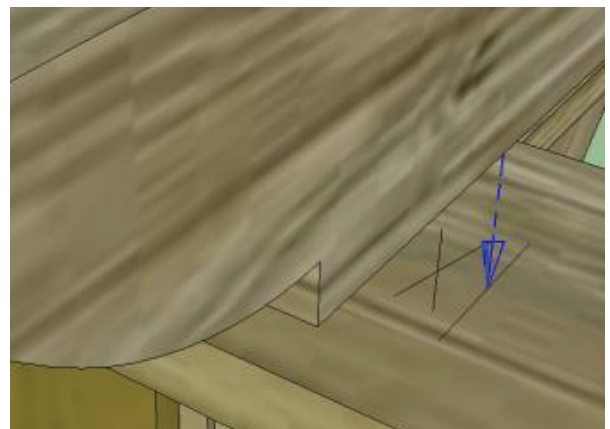
14.) As discussed in the previous section, two sides of the top plate are lined with marks to guide your runner placement. Set the first 2'x6' runner on the corresponding top plate marks at the outer sides. The end runners are set about ¼" from the edge of the runners. Do not flush the runner to the end of the top plate. Set the first runner. Next, adjust the runner placement back and forth until each overhang has an equal measurement. (Hint: you can "split the distance" to center the pergolas) For example, if you have a measurement of 2" on one side and 1 ½" on the other side, the difference is ½". Moving the runner just ¼" will center it. Once the overhang measurement is the same, remember this measurement for other runners.

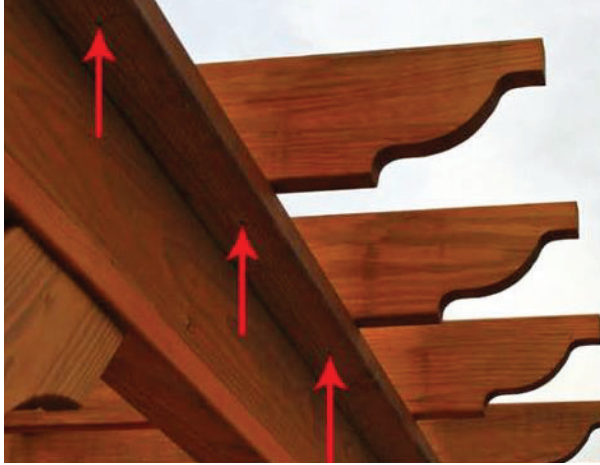


Attach the First Main Runner

15.) When the runner has an equal overhang on each side, attach it to the frame by inserting a 2 ½" screw from the underside of the top plate up into the runner on both sides. For the two outside runners only, use screws through the top plate into the runner for the full length of the runner – approx. every 24"

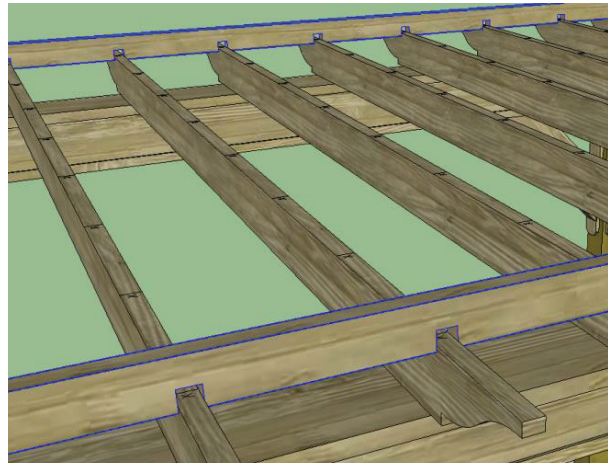
NOTE ABOUT MARKINGS: Each mark consists of a line and an "X". The line represents the side of the 2'x6' runner, and the X means that the board will be placed to that side of the line.





Set & Attach the Remaining Main Runners

16.) Set the next runner over the markings. Ensure that the overhangs are equal to each other and the preceding runner's overhang. Attach with 2 ½" screws on the outside, up through the bottom of the top plate and into the bottom of the runners. Do this for the rest of the main runners.



Run Additional Screw

18.) Once all of the runners are in place and attached with screws, run an additional screw from the inside of the pergola, up through the 1" exposed top plate and into each runner. It is fine to angle this 2 ½" screw slightly facing toward the outside of the beam.



Double Check Spacing

17.) Double check spacing by using two of the top runners. Set each on the main runners and make sure that the notches in the top runners slide down over the main runners. Do this on both ends, above the beams. If one or more of the notches do not line up, unscrew that runner and reposition it so that it fits.



Top Runners

19.) Align each of the top runners over the marking on the main runners. It is best to work from one side of the pergola to the next in order to make sure that any bows in the runners are worked out. Attach the top 2'x4' runners onto the main runners using 3 1/2" screws from the top through the pre drilled holes. Repeat until all top runners are in place.

If you purchased a canopy with your pergola, follow the directions that are included with the canopy.

Be sure to call your project advisor with any questions.

ENJOY YOUR NEW 4-BEAM WOOD PERGOLA

