Assembly Manual for the Grand Cedar Pavilion

Thank you for your purchase of a new pavilion. Depending on the size of your pavilion, installation can usually be completed in 1 to 2 days. These instructions are meant to serve as a guide for people with a basic knowledge of general handyman skills. ***This assembly requires a minimum of two people to complete.***

Please always check with your local building codes, they will vary from state to state.

Consider a few details before beginning assembly:

1. The base for the pavilion must be solid and level. If installing on a concrete slab or on concrete footers, they should be level where the posts will rest. If they are not, it may be necessary to cut the tops of the posts so that the tops are all level. Other than this, no cutting is necessary. If you feel that you will need to make any additional cuts, please contact us before doing so. ***Making cuts without calling first may make installation difficult or impossible and can void our warranties.***

2. When you are connecting to concrete, you will use wedge bolts (included in the kit). If connecting to an existing deck, a lag bolt and deck screws (not included) will replace the wedge bolt.

3. The pavilion does not give you the ability to alter the location of the posts. It is important that they are laid out correctly. You must double check for accuracy before permanently attaching it to your base.

Site Preparation

It is important that the site is properly prepared before beginning assembly. It is imperative that the site be level. There are a few choices when installing this structure. The two most common are to anchor the posts to a concrete pad/wood decking or attaching to a concrete footer or to 16" wide Sono Tubes. Sinking the posts into the ground is not recommended unless it is called for by local building codes.

Anchoring the posts to concrete/wood decking is the most common and simplest method. For this, you will only need to provide a level concrete or wood decking surface upon which you will layout your template. Mark out the squares where the posts and brackets will go. Line up the markings you made, and this is where you will set the posts. This is the method that we will use in the following instructions.

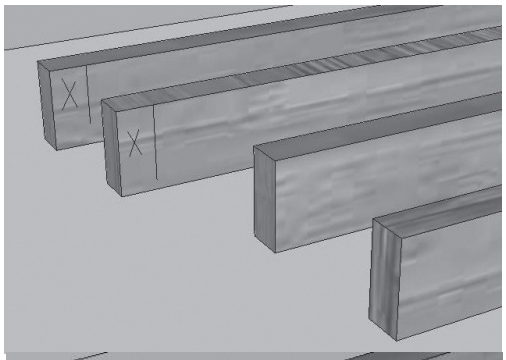
Please check with your local building codes for the depth required for the footers/concrete slab. If using concrete footers, you will need to make sure that all of the tops of the footers are level with each other before you start your build. Contact your Project Advisor with any questions that you may have.

Tools Needed for Assembly:

-Screw Gun/Drill	**-Hammer**	**-Level**	**-Tape Measure**
-C Clamps	**-Socket Set**	**-Ladder**	**-Circular Saw**

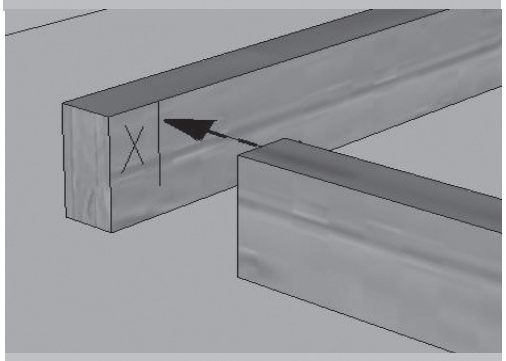
Note: An air-nailer or stapler can be used for rubber or asphalt shingles. (Air nails and staples not included in the kit.)

Note: You will also be sent a parts list with your pavilion.
All hardware is included in each pavilion kit. The specific hardware will vary depending on the pavilion. Please see the parts list for details.

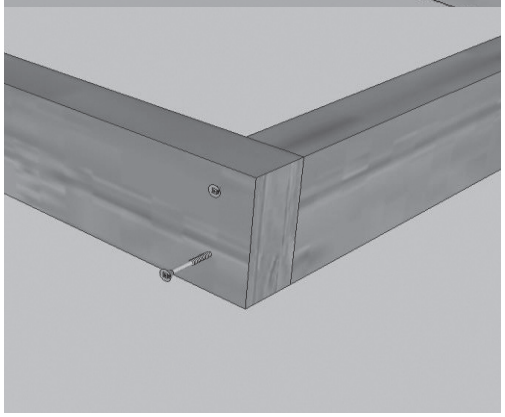


Setting up the template:

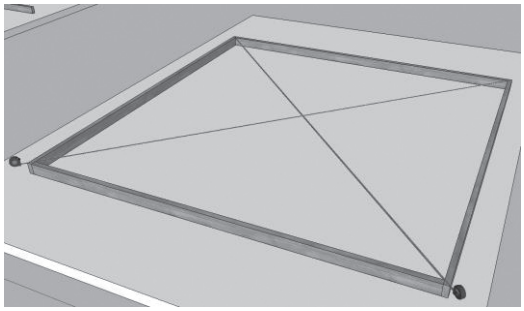
1. Your pavilion kit includes a wooden template that you will use to mark your post locations. You will notice that two of the 2x4 boards have a marking near the ends. You will build a box that will reveal the outside corners of the posts when properly placed.



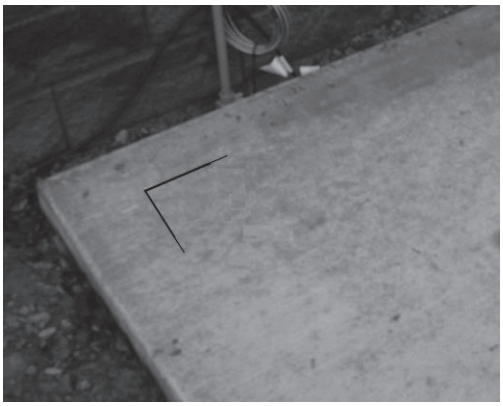
2. Arrange the template pieces so that they are positioned in the exact location of where your pavilion will be placed. The boards with the marking on the end will be across from each other. The marks will show where the other boards will be attached to create this box.



3. Connect the corners of the template pieces by driving two 2½" screws through the side of the template boards.



4. Once the template is in position, you will need to 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 the concrete slab with a pencil. After you have all the post locations marked on the concrete slab, remove and set the wooden template aside.

Assembling the pavilion:

6. The next step is placing the post at the marks you made with the template. When placing the post, make sure you turn it the correct way. There should be a 3" notch and 1" notch on top of post. The 3" notch gets turned to the outside to receive the header beam.

7. The next step is to put the bottom post base and the top trim ring on.

8. You are now ready to install the header beams. If you do not have a couple extra guys to hold the post, you can use the template. Put it together like you did before. Then just screw it to the top of the post to keep the post from falling over.

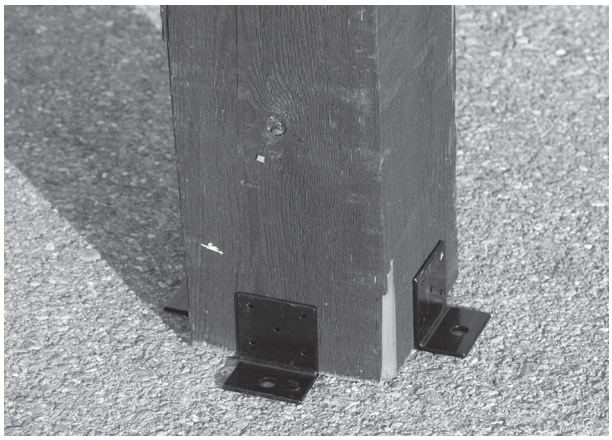
9. Once you have the header beam up in place, fasten it to post with one ½ x 5 lag at each post. Use the center predrilled hole. Do not put the other lags in now. Continue with the other side header.

10. Once you have both long headers up, you are now ready to put the return beams in. Make sure the posts are level and at the marks. Fasten the return beams with four 3½" screws. Four per side.

11. You can now go back and put the rest of lag bolts in. These should be the ½ x 9 lags. Make sure it pulls the return beam in snug against post.

12. The next step will be fastening the top trim to bottom of header with two 3½" screws.

13. Lift bottom post base up approximately 16". You can put a screw in to hold it if you want to. Fasten four of the black L brackets to bottom of post with five 2½" screws.



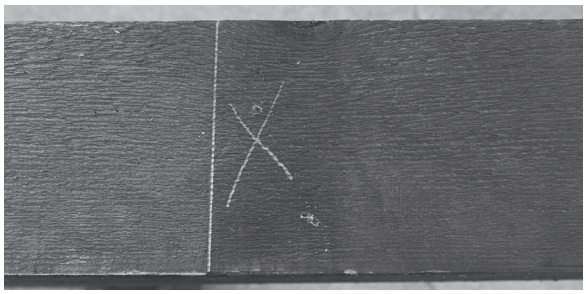
14. When you have all the brackets attached to post, use a ½" mason bit and drill down about ½" farther than length of anchor bolt.

15. When holes are all drilled, put the anchor bolts in. Make sure the nut and washer are on. Use a hammer to tap bolt in hole. When you have it down against, tighten nut with a wrench. Do that with all brackets.

16. The next step will be installing the braces. Fasten brace to header and post with ½ x 6 lags. There should be a total of eight braces.

17. You should be ready to assemble the roof structure now. Locate the two pieces about two to three feet long. These go on top of return beam. There should be a mark on top of return beam. Make sure it is right in the center or your rafters won't fit. Fasten it to return beam with two 3½" screws.

18. Now you are ready to install the ridge beam. Sit it on top of the ridge beam supports. Fasten with two 3½" screws, one on each side. Make sure the marks on top of ridge beam are turned up. The ridge beam should be marked where it fastens to the supports.



19. Once you have both sides fastened, start on the rafters. Put the four outside ones on first. There will be marks on top of headers. Put the rafters on the X.

20. Fasten the rafter to ridge beam with one 3½" screw. There is a predrilled hole in rafter. Do not use that now. Fasten rafter to header with four 3½" screws, two on each side. Make sure rafter sits in tight against header.

21. Once you have all four rafters fastened, start on one end and put the other rafters up.

22. The next step will be install the star drive screws. One 5" on top of rafter going into ridge beam. One 8" going into header.

23. There should be four 2x4s the length of rafters. Fasten these to the end of ridge beam with two 3½" screws. Do not fasten the bottom to header.

24. The next step will be installing the 1x6 T&G boards. Turn the rough side down. Fasten it with one 2½” screw at every rafter. Continue on up, keeping it flush on both ends.

25. Do not do this step if you don’t have metal roof. Installing the 1x3 lath, fasten with one 2½" screw. Make sure you fasten where there is a rafter.

26. Space the 1x3 lath anywhere from 18"–24". Whatever it takes to equally space them.

27. The next step will be installing the 1x gable fascia. Keep it flush on top of 1x3s. If you have asphalt shingles, keep it flush with T&G. Put it right in the center of ridge beam. Fasten with one 2½" screw every 24".

28. Once you have all four pieces of gable trim up, install the fascia. These might be splice. Just match the letters on the inside (A goes with A). Fasten into gable fascia with two 2½" screws. Then one 2½" screw every 24". You might have to cut these if too long.

29. Installing the gable decorative trim one on each side of ridge beam support. These you might need to cut down if too long. Fasten with four 3½" screws. Two on top. Two on bottom.

30. You are now ready to install the shingles. Please see the attached sheet for the proper installation of metal roof.