Wood Gable Pavilion Assembly Instructions

Shown above is a 12' x 14' Open Gable Pavilion

Thank you for your purchase of a new Open Gable 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 base 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 irst may make installation di icult or void our warranties.***

2. When connecting to concrete, use wedge bolts, which are 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 the ability to alter the location of the posts. It is important that they are laid out correctly and double checked for accuracy before permanently attaching it to the 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 concrete pad/wood decking or attaching to a concrete footer or to 16" wide Sonotubes. Sinking the posts into the ground is not recommended unless it is called for by your local building codes.

Anchoring the posts to concrete/wood decking, is the most common method and is also the simplest. Please provide a level concrete or wood decking surface, and then layout the template on the surface. Mark out the squares where the posts and brackets will go. Line up the markings that were made and this is where to set the posts. This is the method that will be used for the following instructions:

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

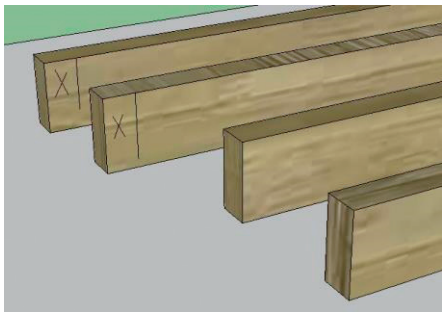
Tools Needed for Assembly:

-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.)

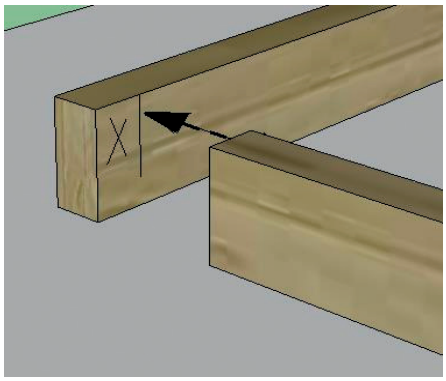
Note: There will be a parts list sent with the pavilion.

All hardware is included in each pavilion kit. The specific hardware will vary depending on the pavilion. Please see the parts list for details.



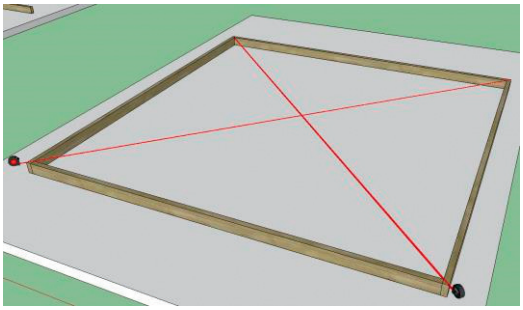
Setting up the template:

1. The pavilion kit includes a wooden template that will be used to mark the post locations. Notice that two of the 2x4 boards have a marking near the ends. Building a box 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 the 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, 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 framed box on the concrete slab with a pencil. After all the post locations are marked on the concrete slab, remove and set the wooden template aside.

Assembling Your pavilion:

6. Begin by assembling the frame of the pavilion structure. Please note that the pavilion kit includes some pre-assembled pieces.

Note: Notice that all of the posts will have two sides notched. Turned the notches on the post to the outside to accept the headers.

7. Next, assemble two posts and a beam. It is easier to do the longer beams first. Attach beam to post with two 3½" screws. You will have some predrilled holes on beam. Do not use those now. Those are for later use.

8. Repeat the same process with all four posts on 2 beams.

9. Make sure your post is square with the beam.

10. Slide your bottom post base on the post.

11. Get the beam with post. Attach and set them up. Put them at the marks you made with the template. You might need someone to hold it as you get the other one.

12. Place all posts at the marks you marks you made from template. Get the 2x4 template and screw it to the post. One side to other side to keep it from falling over.

13. Get one of two of your beams and set them in place. Attach with three 3½" screws into other beam. Use the 3 predrilled holes.

14. Locate all 4 of your top rails. It does not matter witch one you put in first.

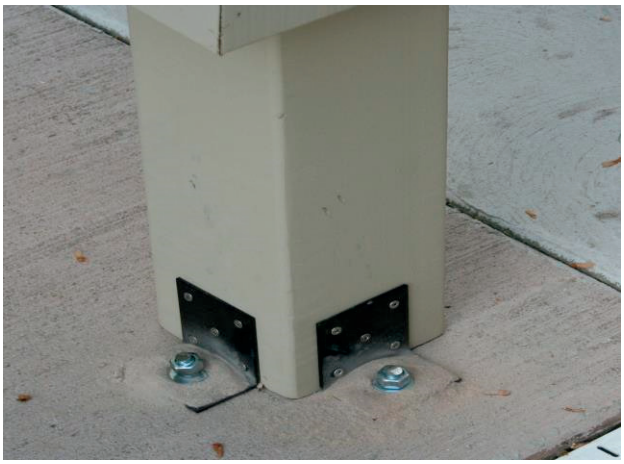
15. Push rail up against the bottom of the header. Put in center of post. Fasten to post with four 2½" screws on both sides. Make sure the screws on the braces are turned in toward the inside of the building.

16. Fasten rail to bottom of the header with two 2½" screws approximately every 16". Do that with all four sides.

17. There should be 24 pieces of 8" GRK screws in hardware box if you have a standard 4 post structure. Those go at the corners. 6 per corner. Those go in the predrilled holes.

18. Make sure your posts are level and are at the marks on the cement. Fasten the L shaped brackets to post across corner from each other. Fasten with five 2½" screws. Use a ½" masonry bit. Drill down about ½" farther than length of wedge anchor.

19. Before inserting the bolt make sure that the nut and washer are on, otherwise the bolt will go too deep into the hole. Now insert the wedge anchor bolts into the holes, leaving approximately ⅛" of bolt exposed above the nut. Use a hammer to tap the wedge anchor bolts into the holes.



20. Once the wedge anchor is down against the bracket use a wrench and tighten it. Do that with all the anchors.

21. When all of the nuts have been tightened down and the posts are securely mounted to the concrete slab, slide the post trim down into place. Next, secure the post trim by using a single 3½" screw, and attaching from the trim into the post.

22. Next, install the top plates. These will be two 2x12's and two 2x8's. 2x12's go on the long side. They should be about flush on inside of post. Make sure the overhang is same on both ends. Use two 3½" screws to fasten plate to post. Do not cut these without calling.

(2x12's are used on the long sides and 2x8's on the short sides)

Note: ***It is important to make sure that the top plate boards equally overhang the structure, so that the roof will be accurately centered.***

23. Now put the 2x8 plate against the 2x12. Fasten into 2x12 plate at the corner with one 3½" screw. Once you have all four corners together, put two 2½" screws down into the header approximately every 16" all around.

24. Another option is to set all of the top plates into place and put a screw in each corner, then make sure they all line up evenly. Then go back and screw it securely into place every 16" along the top of the header with 2½" screws. Also, drive two 3½" screws from each end of the top plates down into the posts. There will be four 3½" screws per post.

25. Next, install the fascia boards. The fascia will need to sit 1⅛" (1⅞" with metal roof) up above the top of the top plate boards. It is a good idea to pre-mark these boards. Do so by measuring up 1⅛" on the board and making a mark. Do this toward each inside end of each fascia board, installing the short sides first.

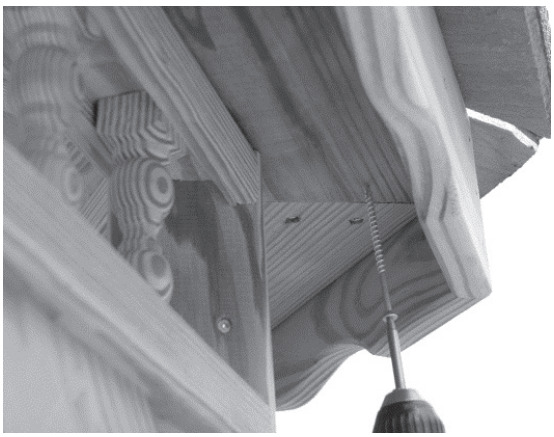
26. Now, hold the first short sided fascia board in place with the mark made resting on the outside edge of the top plate. Also both ends of the fascia board should meet flush with the end of the top plate boards. These you might need to cut down if needed.

27. Next, drive 2½" screws every 16" along the entire length of the fascia board. Follow these same steps with the other short side fascia board as well.

28. The long side fascia boards will overlap the short sides and will extend out past them 11" (12" past the top plate). Notice that they are marked with a line that you will align with the end of the short side fascia board ends. Once in place attach them to the top plate just as was done with the short sides. The long fascia boards will need to be connected to the short fascia boards with 2½" screws. Follow this process until all fascia boards are installed.

Note: If you purchased a pavilion with either a Rubber or a Cedar Shake roof, please read the instructions in this box.

The Rubber and Cedar Shake shingles will come on the roof and all you wll need to nstall s the cappng. There s no need to take off the roo deckng boards as descrbed below, along wth connecting the roo to the top plate from the top. Screw from the underside of the top plate overhang up nto each rafter. There wll be an nsert that wll tell you how to install the capping properly.



29. When all fascia boards are installed, set the four roof panels on outside of building, you might need 3 or 4 guys for this step.

Note: The roofing sections will all be marked in the top corner with numbers. Make sure that the roofing sections are set in place so matching numbers rest against each other.

30. Be sure to use a few helpers to get the roofing sections into place. Lift the first section into place making sure the end is resting on the top plate and against the fascia board. The 12" overhang section should be against the inside of the top plate and flush with the outside of the fascia board as shown. Then, use a prop board to hold it into place. (Prop board not included)

31. Next, set the first roofing section for the other side in place as was done for the first section. These two sections can now rest against each other on their ridge boards. Now, connect these two ridge boards together with 2½" screws, staggered every 16" apart. Make sure the ends of panels are flush.

32. Do the same process with the remaining sections until all roofing sections are in place. Once all sections are in place, connect the inside seams of all opposing sections. Do this by driving 2½" screws every 16" along the seams.

33. Once all the rafters are connected, install the gable sunburst design. Make sure it is in the center of the building. Fasten with four 2½" screws. Two on top, two on bottom.

34. Next install the slant pieces. You might have to cut if they do not fit. Fasten with two 2½" screws per board. One top, one bottom.

35. Now install the half moon trim pieces. There will be two different sizes. The smaller one goes on top of fascia. The larger one on the inside. These get fastened on all three boards with one 1½" screw. Same way with inside one.

36. Now you are ready to install gable end fascia. These are the boards that have slant cuts on both ends. It might need to be cut down to size. Keep it flush on top of roof panel and center of ridge beam.

37. Fasten to the 2x4 rafter. One 2½" screw at top and two at the bottom going into fascia. Then one every 16".

38. Now you are ready to fasten rafter to plate. First take your bottom 1x6 T-G board off. There should be about two or three screws you need to back out. Make sure your ridge beam does not sag in the center. You might need to put a prop in.

39. Once you have all the bottom T-G off, screw each rafter down into plate with one 2½" screw down the center and two 3½" screws angled on the sides.

40. Once you have all the rafters fastened, put your T-G board on again.

41. Now get the corner trim and fasten with four 2½" screws.

42. You are now ready to install the shingles.

Note: All Ramada's over 18' wide will be sent in stick-built form.