

# Wood Pergola



# Assembly Manual

# Wood Pergola Assembly Manual

Congratulations on purchasing your new Pergola. Thank you for your purchase and welcome to the YardCraft Family.

This manual is designed to simplify the assembly process, however we recommend having an experienced carpenter involved in the project. Please read through the entire manual before starting!

It took 2 men, approximately 6 hours using the tools shown. However, it may take you longer since it will be a new project for you.

Take a deep breath and get at it; the satisfaction and enjoyment of this pergola is only a few hours away. Have fun!

You have purchased a product that consists of heavy, bulky pieces. With your purchase, you assume full responsibility to have the necessary manpower and/or equipment available to unload the items. You also agree that any damage that happens to the equipment, product, or individuals during the unloading process, or during the entire construction process, is your responsibility, and neither the seller, nor the manufacturer, will be held liable for any such damage.



6' & 10'  
Step  
Ladders



25' Tape  
Measure



Cordless  
Drill



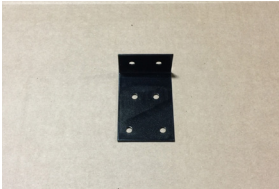
Hammer  
Drill



(4) 2x4x8' Long  
(2) 2x4 Approx 4' Long  
for bracing header assemblies

## Tools Required for Job (Not Included)

# Parts List (Included)



(8) L Bracket



(36) 2" Screws



(56) 2 1/2" Screws



(115) 3" Screws



(135) 3 1/2" Screws



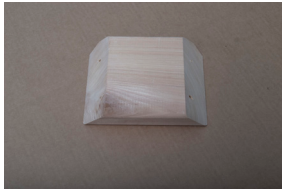
(36) 1 1/2" Black Head Screws



(18) 2 1/2" Tapcon Screws



(8) Post Skirt Piece With Notch



(8) Post Skirt Piece Without Notch



(8) Brace



(1) Hardware Box



(1) Square Drive Bit



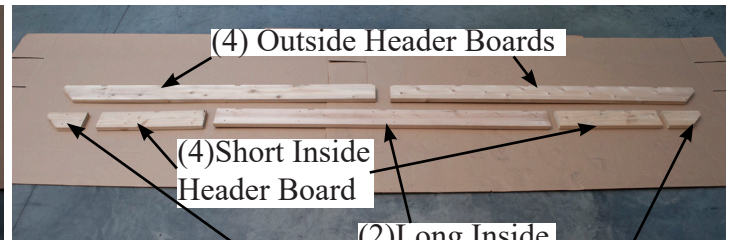
(1) 3/16" Concrete Drill Bit



(1) 5/16" Hex Drive Bit



(4) Post



(4) Outside Header Boards  
 (4) Short Inside Header Board  
 (2) Long Inside Header Board  
 (4) Outside of Post Header Board  
 Header Parts.



(16) Stringer Boards



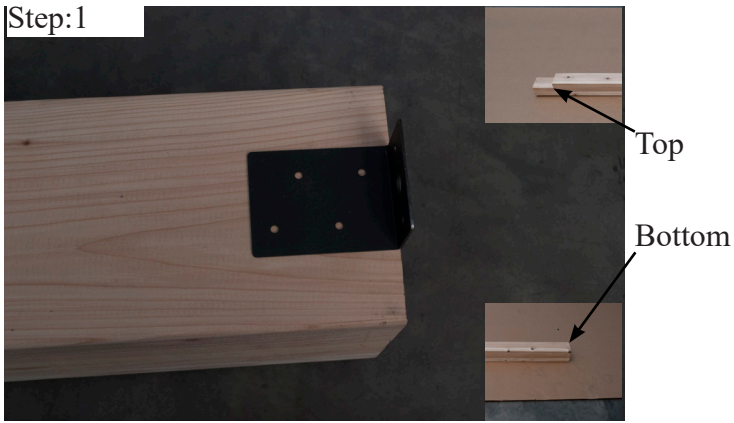
(18) Bottom Rafter Boards



(9) Top Rafter Boards

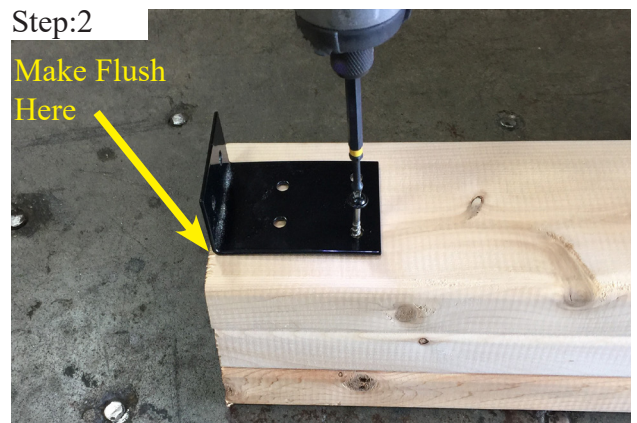
# Wood Pergola Assembly Manual

Step:1



Locate the Post. Place an L Bracket on the bottom of the Post. Notice the top and bottom of the Post are different.

Step:2



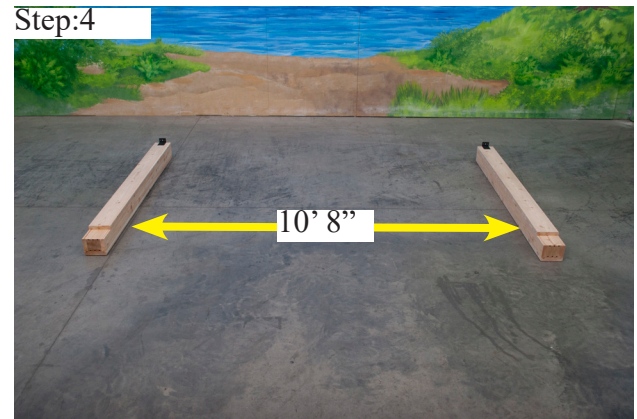
Make the L Bracket flush at the bottom and fasten to Post with (Four) 1 1/2" Black Head Screws through pre-drilled holes in the Bracket.

Step:3



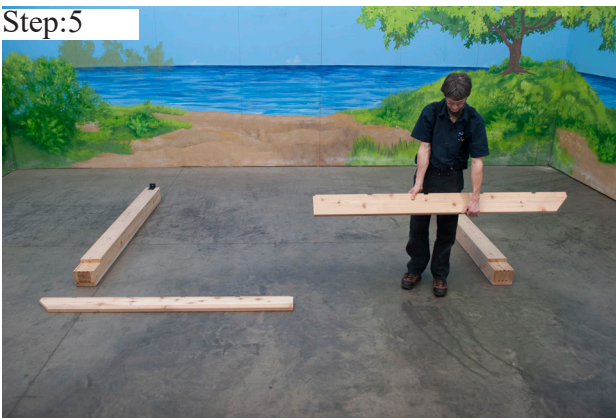
Turn the post around. Install the second bracket on the post as shown. (Two L Brackets per Post.)

Step:4



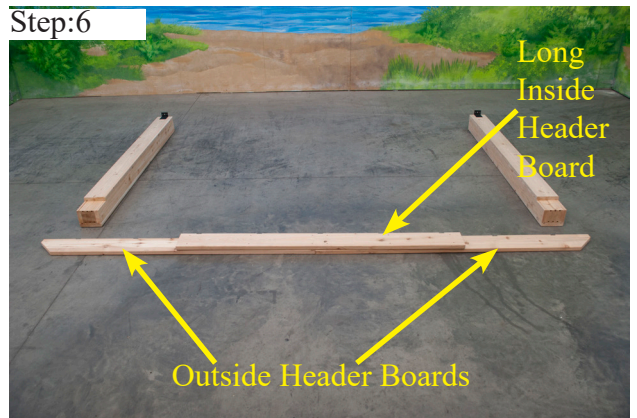
Install the L Brackets on the second Post, as shown in Steps 1-3 and lay on the floor approximately 10' - 8" apart.

Step:5

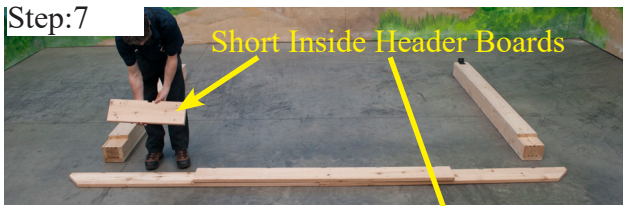


Locate the Outside Header Boards. Place two Boards down on the floor opposite of each other.

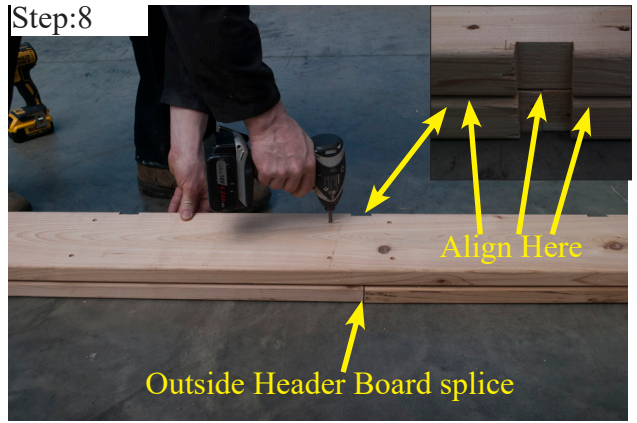
Step:6



Locate the Long Inside Header Board. Place on top of the Outside Header Boards in the center.



Locate the Short Inside Header Boards and place one on each end of the Long Inside Header Board.



Starting at the center, make the Header Boards flush at the notches. Fasten the Inside Header Boards to the Outside Header Boards with (Four) 2 1/2" Screws through pre-drilled holes. Make sure the second Outside Header Board is tight against the first Outside Header Board at the splice.



Keeping all the Header Boards and notches aligned, fasten the Short Inside Header Boards to the Outside Header Boards with (Four) 2 1/2" Screws through pre-drilled holes.



After all the Header Boards are fastened, flip the Header Assembly around and place in the notches of the Post.



Hold a triangle square at the corner of the Post and Header Assembly to make it 90°.



Keeping the Header Assembly at a 90° angle, push in against the Post and against the notch in the Post. Fasten to Post with (Four) 3 1/2" Screws through all pre-drilled holes.

Step:13



Fasten the opposite end of the Header Assembly, as shown in Steps 11 and 12.

Step:14



Lift the Post and Header Assembly to its upright Position.

Step:15



While holding the Post and Header Assembly upright, using your own 2x4's, create a temporary X-Brace.

Step:16



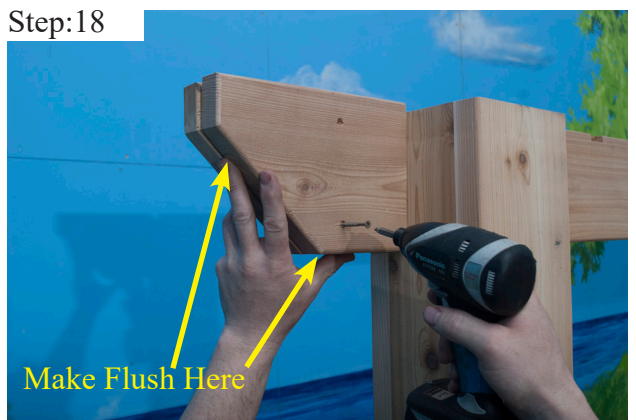
Assemble the second Post and Header, as shown in Steps 1-15.

Step:17



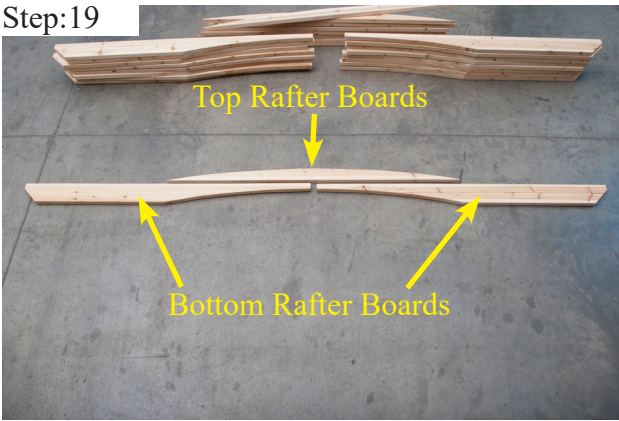
Measure the distance between the two Post and Header Assemblies at each end. Adjust the Post to make it approximately 10 feet from outside to outside of the Post.

Step:18



Locate the Outside of Post Header Boards. Make flush with the Outside Header Board and against the Post. Fasten with (two) 2 1/2" Screws through pre-drilled holes. Repeat this step at all four Post locations.

Step:19



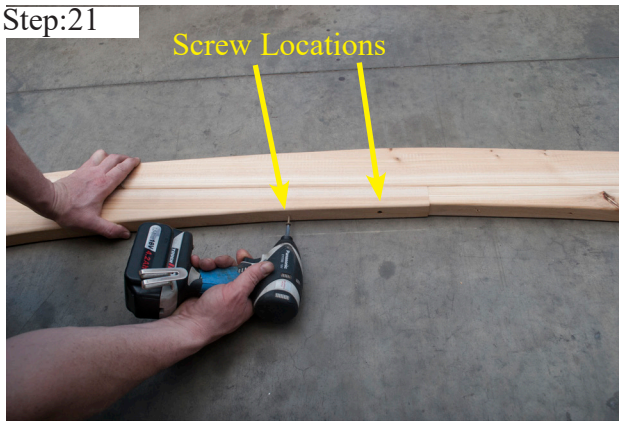
Locate the Bottom Rafter Boards and the Top Rafter Boards. Lay out on the floor as shown.

Step:20



Hold the Top Rafter Board onto the Bottom Rafter Board at the mark. Fasten using (two) 3" Screws through pre-drilled holes.

Step:21



Now fasten through the Bottom Rafter Board into the Top Rafter Board with (two) 3" Screws through pre-drilled holes.

Step:22



Push the second Bottom Rafter Board against the first one. Attach the opposite end, as shown in Steps 20 and 21.

Step:23



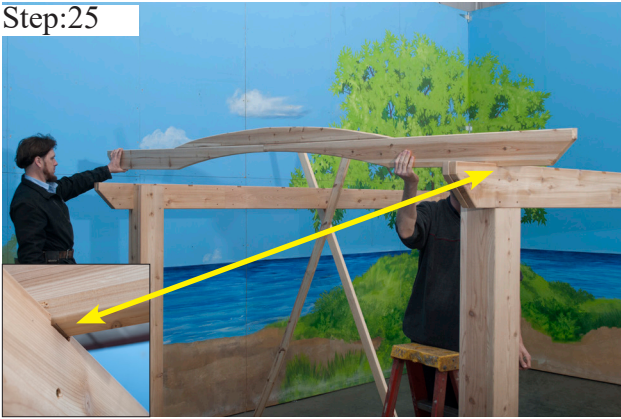
The completed Rafter Assembly should look like this. Assemble the remaining Rafters, as shown in Steps 20-22.

Step:24



With all the Rafters assembled, You are now ready to install them onto the Post and Header Assemblies.

Step:25



Lift the Rafter onto the Headers. Place into the notch on the Headers. Place the Rafter so the mark on the Rafter is flush with the outside of the Header.

Step:26



Attach the Rafter to the Header, on both sides of the Rafter, with (two) 3" Screws through pre-drilled holes. (One Screw on each side of the Rafter)

Step:27



Attach the opposite end of the Rafter to the Header, as shown in Steps 25 and 26. (You may need to slightly adjust the Header Assembly)

Step:28



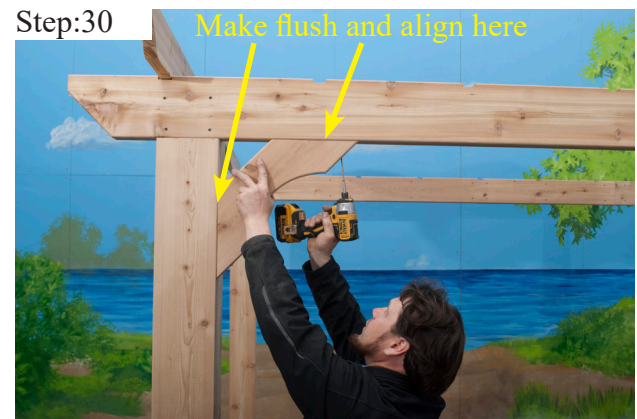
Install the Rafter on the opposite end as shown in Steps 25-27.

Step:29



You may now remove the Temporary X-Brace.

Step:30



Locate the Brace. Make flush with the outside of the Header and outside of the Post. Fasten with (Four) 3 1/2" Screws through pre-drilled holes. (Two into Header and two into Post.)



Step:31



Install the next Brace at the Rafter location. Fasten with (Four) 3 1/2" Screws through pre-drilled holes. (Two into Rafter and two into Post).

Step:32



Install all remaining Braces, as shown in steps 30 and 31. (Two Braces at each Post Location.)

Step:33



Now install all remaining Rafters, as shown in Steps 25 and 26.

Step:34



Locate the Stringers. Place on top of the rafters. Notice the direction of the Stringer placement.

Step:35



The rafter will be marked. Place the Stringer at the marked location and firmly place in the notch. Fasten with (one) 3 1/2" Screw through pre-drilled hole at each Rafter location.

Step:36



Install the Stringer on the opposite end, as shown in Step 34 and 35.

Step:37



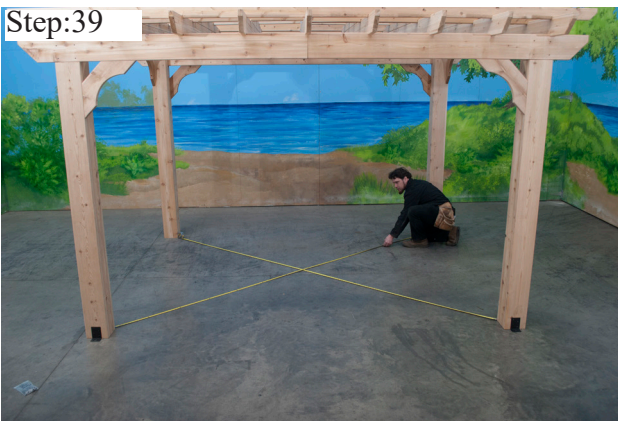
Install all remaining stringers, as shown in Steps 34-36.

Step:38



This is how your assembly will look with all the Stringers installed.

Step:39



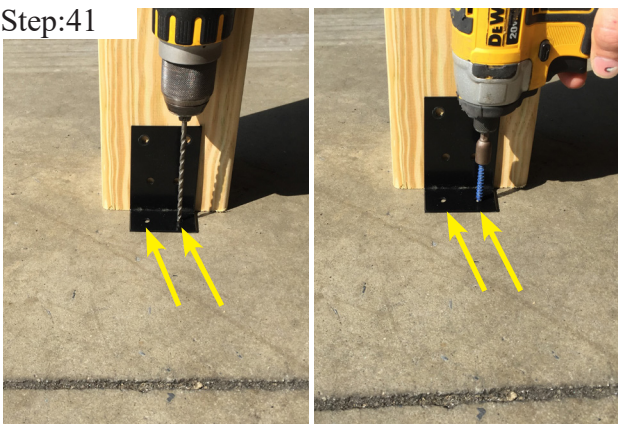
Measure each way from Post to Post. Adjust the Post to create equal distance both ways.

Step:40



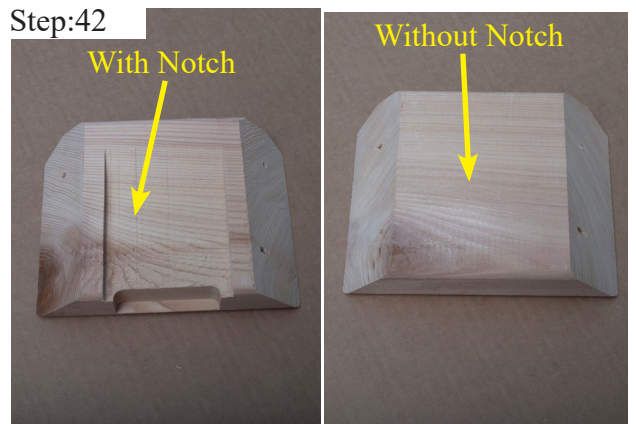
Keeping the measurements from previous step, level each post both ways. Adjust the Bottom of the Post if necessary.

Step:41



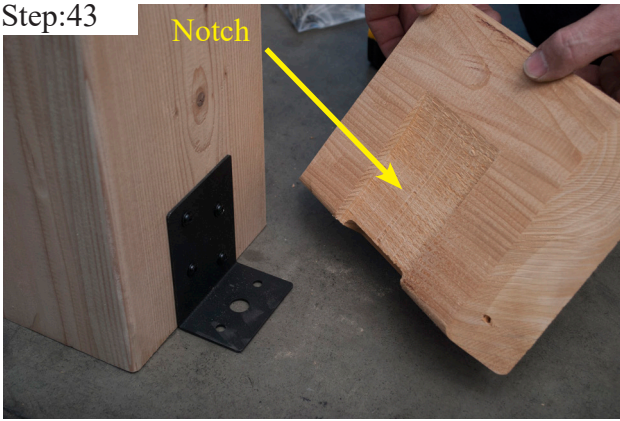
Pre-drill a  $\frac{3}{16}$ " hole into the concrete or wood deck at two locations through the L Bracket. Then fasten with (two) 2  $\frac{1}{2}$ " Tapcon Screws. Repeat this step on the second L Bracket.

Step:42



Locate the Post Skirt Pieces. There are some with and without Notches.

Step:43



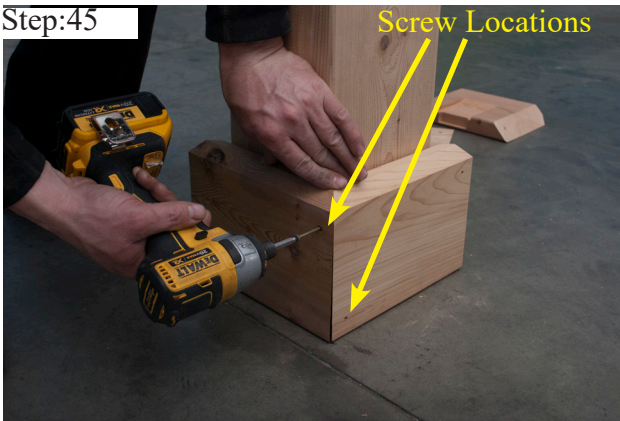
Place the Post Skirt Piece With Notch against the post on the side with the L Bracket attached.

Step:44



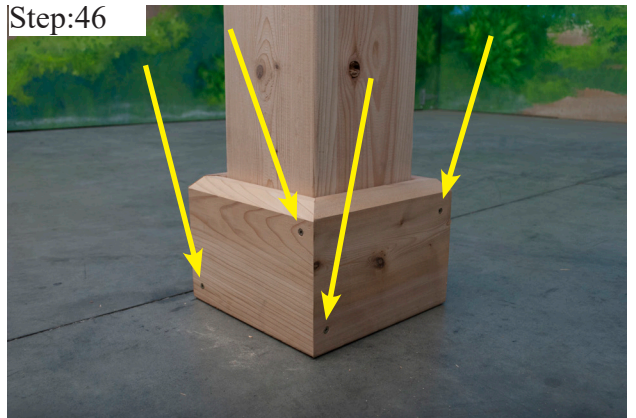
Work your way around the Post. Place the ones with notches at the two L Bracket Locations, and the ones without notches at the other two sides.

Step:45



Fasten the Post Skirt Pieces together with (two) 2" Screws through pre-drilled holes at each corner.

Step:46



Install the Post Skirt Pieces at each Post Location, as shown in Steps 43-46.

# Congratulations!

## You've successfully assembled your Pergola!



If you purchased an E-Z Shade Canopy with your Pergola, follow the next steps to install.

Parts List



(3) Mounting Brackets



(6) Retaining Pins



(1) Allen Wrench



(3) Triangle Blocks



(3) 2 1/4" S. S. Screws



(6) 2 1/2" Screws



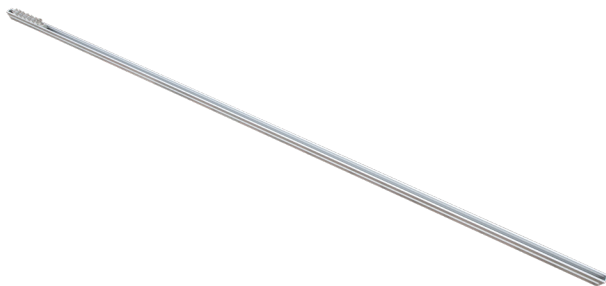
(20) 2" Screws



(1) Control Rod



(1) Canopy Assembly. Includes the Fabric and Arms.



(1) Main Beam



(2) 1x3 Guide Rail

Step: 1



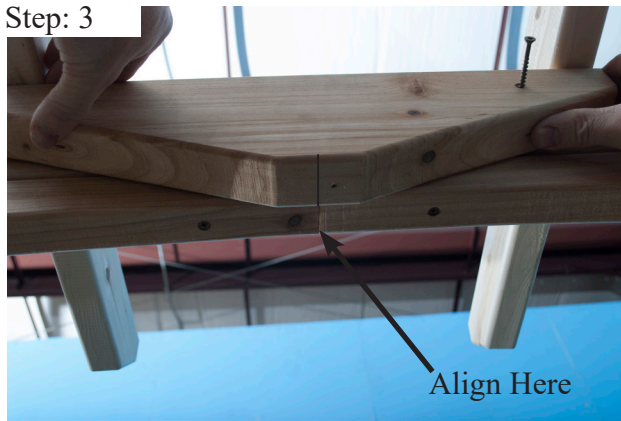
Locate the Triangle Block.

Step: 2



Place at the center of the Rafter on the one end of the Pergola.

Step: 3



Align the mark on the Triangle Block with the splice in the Rafter.

Step: 4



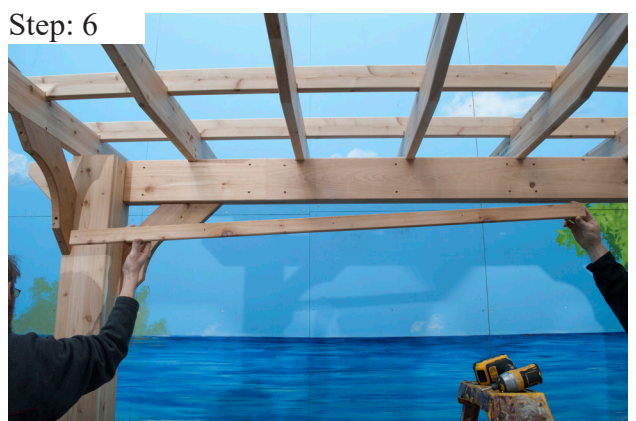
Secure tight against the Rafter and up against the Stringers. Fasten to Rafter with (two) 2 1/2" Screws through pre-drilled holes.

Step: 5



Install the remaining two Triangle Blocks, using Steps 3 and 4, at the locations shown above.

Step: 6



Locate the 1x3 Guide Rail.

Step: 7



Hold the 1x3 Guide Rail up against the bottom of the Rafters. Make flush with the outside of the first Rafter.

Step: 8



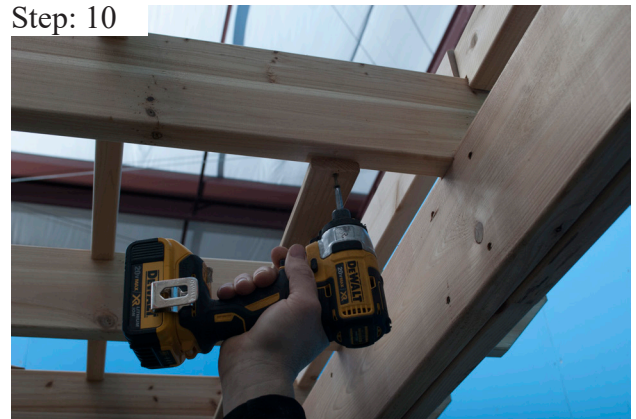
While holding the 1x3 Guide Rail against the post, measure the distance from the Header to the 1x3 Guide Rail.

Step: 9



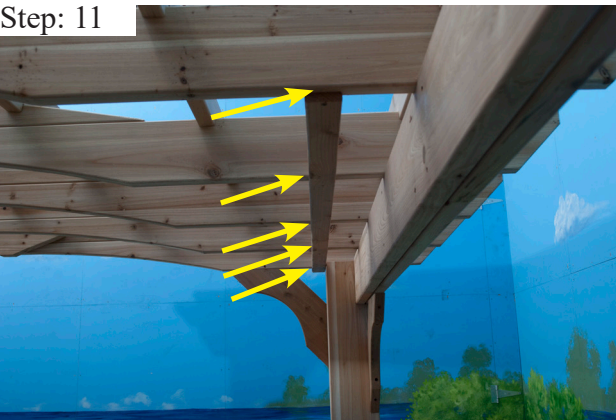
Now measure at the opposite end of the 1x3 Guide Rail. Adjust the 1x3 Guide Rail to create the same measurement as in Step 8.

Step: 10



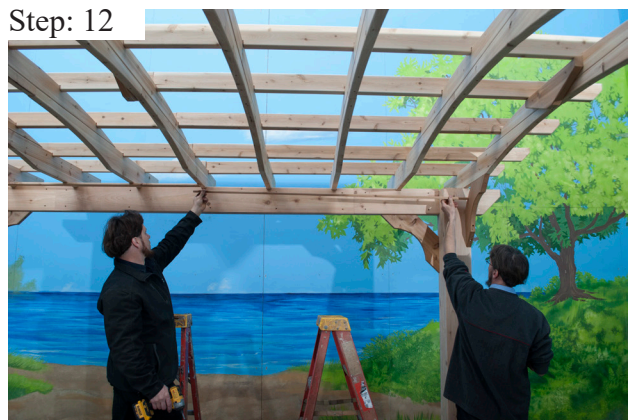
Fasten 1x3 Guide Rail to the Rafter with (one) 2" Screws through pre-drilled hole.

Step: 11



Fasten the 1x3 Guide Rail at all the remaining rafter locations, (One) 2" Screw into each Rafter).

Step: 12



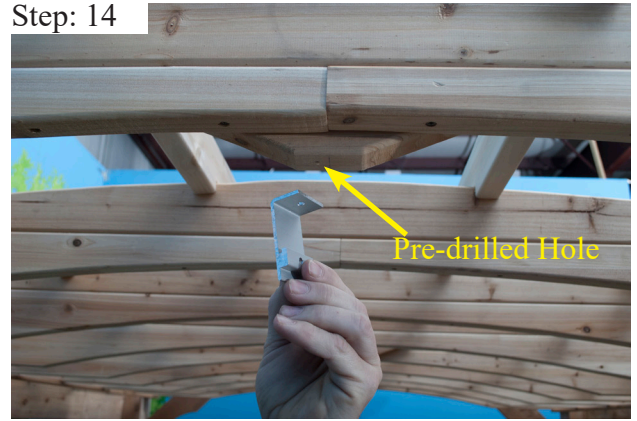
Instal the second 1x3 Guide Rail against the first one, and fasten to each Rafter, as shown on Step 7 and 11.

Step: 13



Install the 1x3 Guide Rail on the opposite side of the Pergola, as shown on Steps 7-12.

Step: 14



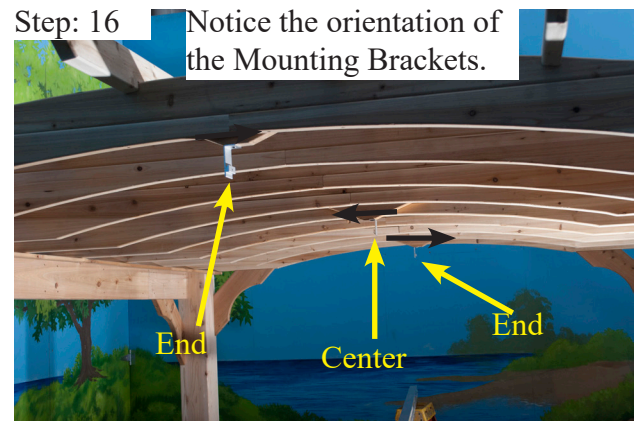
Locate the Mounting Brackets. Notice the pre-drilled hole in the Triangle Blocks.

Step: 15



Place the Mounting Bracket on the Triangle Block and fasten through the hole in the Mounting Bracket into the pre-drilled hole in the Triangle Block with (one) 2 1/4" S. S. Screws.

Step: 16 Notice the orientation of the Mounting Brackets.



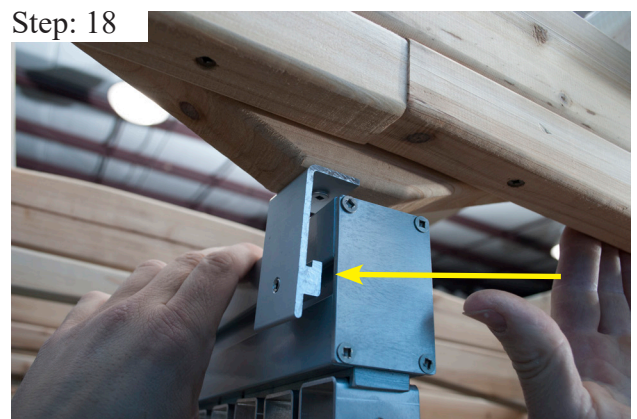
Install the remaining Mounting Brackets at the Triangle Block locations. Turn the center Mounting Bracket the opposite direction of the end Mounting Brackets.

Step: 17



Locate the Main Beam and lift into approximate location.

Step: 18



Start at the one end and slide the Main Beam into the Mounting Bracket.



Step: 19



Slide the Main Beam into the remaining Mounting Brackets, as shown on Step 18.

Step: 20



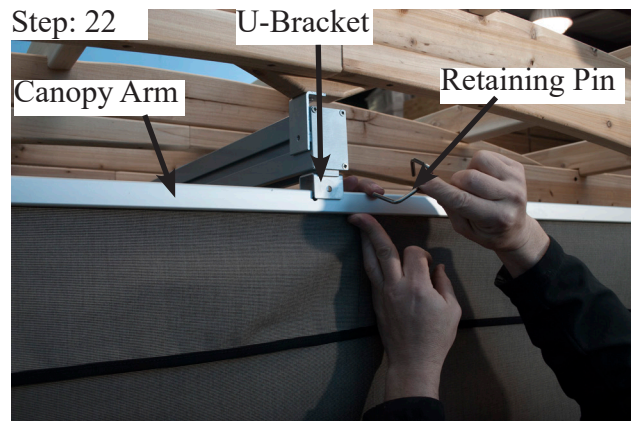
Using the Allen Wrench, tighten the Screw in the Mounting Bracket on all three Mounting Brackets.

Step: 21



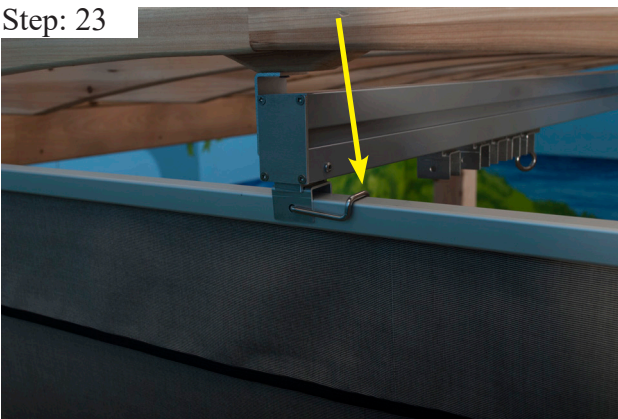
Locate the Canopy Assembly. Starting with one end, lift the first Canopy Arm into place.

Step: 22



Slide the first Canopy Arm into the first U-Bracket on the Main Beam and align the holes. Slide the long straight part of the Retaining Pin through the U-Bracket and the Canopy Arm.

Step: 23



Once the Retaining Pin is fully through the the U-Bracket and the Canopy Arm, press the Retaining Pin down to secure over the top of the Canopy Arm.

Step: 24



Install all remaining Canopy Arms into the U-Brackets as shown on Steps 21-23.

Step: 25



After all the Canopy Arms are installed, Locate the Control Rod. Hook the Control Rod into the Eye Bolt. Turn the Eye Bolt to loosen it. Slide the Canopy across the Main Beam.

Step: 26



Slide the Canopy to your desired location and turn the Eye Bolt again to tighten. This will keep the Canopy from moving while in use. (Be careful not to over tighten the Eye Bolt)

# Congratulations!

You've successfully assembled your Pergola with an E-Z Shade Canopy



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*YardCraft.com*

*Info@YardCraft.com*

*191 Jalyn Drive*

*New Holland PA 17557*

*1-844-442-1615*