

Hearth Side Pergola



Assembly Manual

Pergola Assembly Manual

Thank you for your purchase of this Pergola

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!**

The Pergola put together for this manual was a 12 X 17 Rectangle. This manual can also be used for other sizes. It took 2 men, approximately 3 hours using the tools shown below. 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.

Tools Required for Job



6' Step
Ladder



Rubber
Mallet



Hammer



Paint
Brush



Ratchet
& 3/4"
Socket



Hammer
Drill



1/2" Concrete
Drill Bit



Cordless
Drill



25' Tape
Measure



Utility
Knife



(4) 2x4x8' Long
(2) 2x4 Approx 4' Long

Parts Sheet



Top of Post L Bracket



Rafter U Bracket



5x5 Post Bracket



Z Bracket



2x6 Stringer Bracket



9x3.1/2" Coated Screw



9x2.1/2" Coated Screw



10x1.1/2" Black Head Screw



#2 Square Drive Bits 2" & 4"



9x3" Coated Screw



4" Concrete Lag Bolt



Header Board A



Header Board A



Header Board B



Header Board B



Header Board C



Post



Arched Rafter



2x6 End Stringer



2x6 Center Stringer



Brace (Header side)

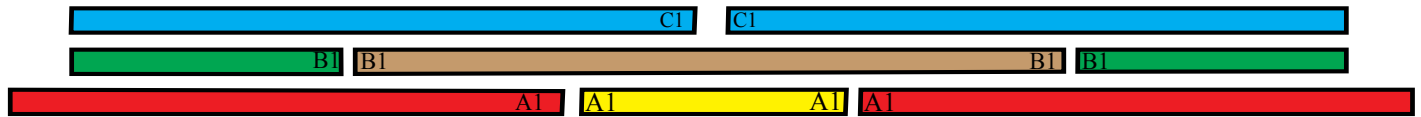


Brace (Rafter Side)



Touch Up Stain

Header Assembly



- Begin by finding a clean area to work. We used some available 2x4's to keep header clean and protect the patio from potential screws coming through. If you have purchased a 13' long Pergola your header assembly will be not have the center A board but follow these same steps.

-Start assembling header by placing Header Boards (A1) in a row. Locate nicest side of board and place facing ground. (As shown in diagram above) This will be the side that shows when Pergola is assembled.

-Place Header Boards (B1) on top of row (A1)(As shown in diagram above).



-Ensure Headers are flush with top of each other.
(Top is side with notches)



-It is important to align notches accurately.



-Attach Header Boards (B1) to Header Boards (A1) using 2.1/2" coated screws through pre-drilled holes.

-Ensure all crews are counter sunk and boards are drawn tight together.



-Layout Header Boards (C1) on top of Header Boards (A1 & B1) Again ensure alignment.



-Attach Header Boards (C1) using 3" coated screws through all pre drilled holes.



-Again Ensure all screws are counter sunk and boards are drawn tight together.

Caution - If you fail to fasten header boards tightly, or use less than all screws recommended, this may result in failure of header beam.

-Repeat All above Steps using A2, B2 & C2 Header Boards

Attaching Header Assembly to Posts



-Place Posts on floor with Notched section facing up



-Protect your patio and keep your new pergola clean by using cardboard or any other available protection material.

- Attach Post Brackets to base of post using 1.1/2" Black Head Screws.



- Using 2 men place header assembly into notched section of posts.



- Ensure header and posts are square. (Lined up nicely with each other. All gaps closed)

-Attach header to post using (5) 3" coated screw



- Stand Posts and Header Frame upright in desired location.



- Ensure that both header frames are correctly facing the inside of the pergola.



-Make a temporary 2x4 A-frame to stabilize the header frame. (Not Included)

-Repeat to complete 2nd header frame.



-Attach Z Bracket onto inside of post and header using 1.1/2" Black head screws.

-This is a good time to refer to the Measurements Section in the back of this book to ensure Post placement is correct .

Attaching Braces & Assembling Rafters



- Attach Short Braces (Header Side) using 4" long drive bit and (4) 3.1/2" coated screws.



-Align top of brace with center header board (Board B).



- Line up 2 Arched Rafters together.



- Slide U Bracket onto bottom side of Arched Rafters. Ensure a snug fit between bracket and rafters. Ensure no gap between rafters.



- Ensure Bracket is Centered at rafter joint using a tape measure.
- Align groove to be flush. (Shown yellow bar)



- Attach U bracket to rafters using 1.1/2" black head screws.
- Fill all screw holes . (20 screws per bracket)
- Complete all rafter sections.



- Place L Bracket to top of post with the longer side of bracket down onto post.

-Align Bracket evenly with notch in header

-Attach Using 1.1/2" Black Head Screws



-Set complete Arched Rafter on top of header starting at one end.

Rafters Continued



-Align notches and seat into position.



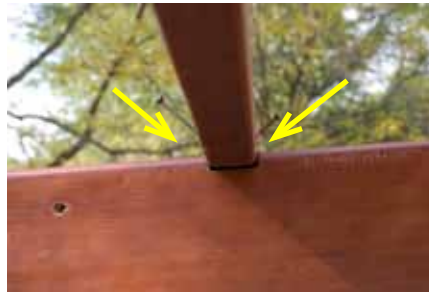
- Fasten Arched Rafter to L Bracket using 1.1/2" black head screws.



-Also Fasten Rafter to Header using 3" coated screws. (Toed as shown above)



-Continue with the next arched rafter correctly inserting into notch.



-Again fastening Arched Rafter to headers using 3" screws (toed as shown above)



-Finish all Arched Rafters using the same application.



-Place long Brace (Rafter Side), Ensure Brace is center on Arched Rafter and slightly in from front edge of post.

-Attach Brace using Long Drive Bit and (4) 3.1/2" coated screws

Stringer Installation



-Place a 2x6 Stringer End into the Rafter inserting in to the notches. (Starting at the top)

-Tap into place using a rubber mallet.



-Attach stringers to Arched Rafters using 3" coated screws. (Toed as shown)



-Continue to attach the Stringer to the Rafter at every notched connection using (1) 3" screw per connection.



- After installing 1st End Stringer, install Center Stinger. 13' Units will not have center stringer.

- Attach using same method as shown in previous 3 steps.

-Install opposite End Stringer, as shown in previous 3 steps.



- Place a Stringer Bracket at every Stringer joint.

-Attach using 1.1/2" Black screws



-Continue by attaching all Stringers and Brackets until Complete!

Attaching Your Pergola to your Patio.



When attaching your Pergola to your Patio, Ensure you attach it to a solid structure. (I.e. Concrete Base, Concrete Pad, Deck etc.. Do not attach to pavers alone. Pavers will not hold your pergola down in high winds.



-Using a Hammer Drill and a 1/4" Drill Bit (Not Included). Drill into the Patio.



-Photo Showing Newly Drilled Hole.



-Insert Included 4" Concrete Lag Bolt into hole.

-Tighten Lag Bolt.

Congratulations!



Enjoy your Pergola!

Optional Superior Post



Superior Post Panel



Post L Trim



Bottom Base Trim



Top Trim



8x1.1/2" Stainless Screw



9x2.1/2" Coated Screw



-Place (2) Superior Post Panels together as shown. Ensure that inside cross block is flush at top. Do not install upside down.



-Join together by using 1.1/2" Stainless screws through pre-drilled holes.



- Finish Post by adding additional Panels and joining together as shown in previous (2) steps



- Place Bottom Base Trim around Superior Post Panels and attach using (3) 1.1/2" Screws through pre drilled holes.



- Place Post L Trim onto corner ensure flush fit at top and bottom.



-Attach Post L Trim using 1.1/2" Screw.



-Place Top Trim into place as shown. Ensure even fit all around.

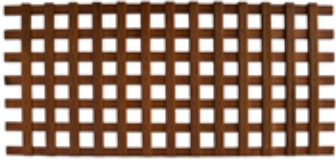


-Attach Top Trim using 2.1/2" coated screws



-Complete by finishing remaining desired posts.

Optional Roof Lattice



2'x4' Lattice Panel



L Edge Trim



Flat Connecting Trim



9x2.1/2" Coated Screw



-Place 1st Lattice Panel in place between 2x6 Stringers from the top. Place panel edge center of Rafter as shown.



-Place L Edge Trim onto lattice panel and ensure flush with front edge of pergola.



-Attach with (2) 2.1/2" Coated screws through pre-drilled holes.



-Showing L Edge Trim Installed.
-Flush with front edge.



-Place 2nd piece into place.
-Lattice should fall center of Rafter as shown above



Place Flat Connecting Trim to over lap both lattice sections.



-Attach Trim with (2) 2.1/2" coated screws through pre-drilled holes.



-Continue adding additional Lattice Panels and attaching Trim pieces until Lattice Roof is complete.

Optional Privacy Wall



Foot Bracket



Connection Plate



Privacy Wall Panel



Privacy Wall Lattice Top



1/4 x 2" Concrete Screw



Frame Board Center
Un Notched



Frame Board Top & Bottom
(1) Notch



Frame Board Sides
(2) Notches



8x2.1/2" Coated Screw



10x1.1/2" Black Head Screw



-Layout Privacy Wall Frame as shown above.



-Connect the frame boards together using (2) 2.1/2 Coated Screws at each connection

- After completing the first section continue to make the final sections.



-Remove the 2 Braces from the Header and Post on the side you wish to have the Privacy wall.



-Set your 1st frame into place. Starting beside post and placing larger opening up.



-Ensure frame is flush with front of header and tight against post.



- Attach frame to post using 5" 2.1/2" coated screws. Evenly space from top to bottom.



-Lift next frame into place and attach to the frame next to it using (4) 2.1/2" coated screws.



- Place the Connection Plate at the top of Frame Board and onto the header.



- Attach using 1.1/2" Black Head Screws.

-Install second Plate. As Shown.



- Place Foot Bracket under Frame Boards and attach using 1.1/2" Black Head Screws.



-Install Final Panel using same process as the previous steps.



- Place Privacy Wall Panel into opening. Ensuring side with pre-drilled holes are facing out. (This is for looks only)



- Privacy Wall Panel may be tight use a rubber mallet to tap into place. Align center into frame.



- Attach Panel to Frame using 2.1/2" coated screws through pre drilled holes. Fasten on outside of pergola to hide screws.



- Place Privacy Wall Lattice Top into place, it may be tight, use a rubber mallet to tap into place. Align center into frame.



- Attach Panel to Frame using 2.1/2" coated screws through pre drilled holes. Fasten on outside of pergola to hide screws.



Anchor to Floor using concrete screws (Pre Drill).



- Complete wall by finishing remaining panels.