

Santa Fe Wood Pergola



Assembly Manual

Santa Fe 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 an 18x16 Rectangle. This manual can also be used for other sizes. It took 3 men, approximately 8 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.

Tools Required for Job



6' & 10'
Step
Ladders



Hammer



Ratchet with
1 1/8" & 3/4"
Socket



Hammer
Drill



Level



1/2" Concrete
Drill Bit



Cordless
Drill



25' Tape
Measure



Utility
Knife



Paint
Brush

(4) 2x4x12' Long
(2) 2x4 Approx 4' Long
for bracing header assemblies

Parts List



6" Timber Lock
Screws



4" Timber Lock
Screws



3 1/2" Wood
Screws



1 1/2" Nails
for Simpson Straps



1 1/2" Wood
Screws



3" Wood
Screws



3" Wood Screws



1/2" x 4"
Concrete Lags



30" Simpson Strap

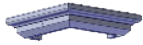


Touch - Up
Stain

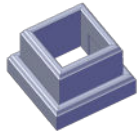


(1) 2" Square Drive Bit
(1) 5/16" Hex Drive Bit

Parts List Continued



Post Rings



Post Skirts



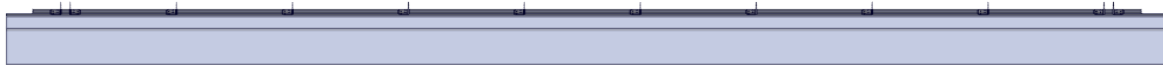
Outside Post Trim



Inside Post Trim



Post



Front Header



Back Header

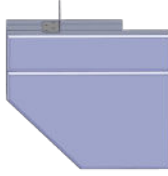


Front Brace Section (This section is bigger than the back section)

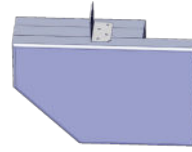


Back Brace Section (This section is smaller than the front section)

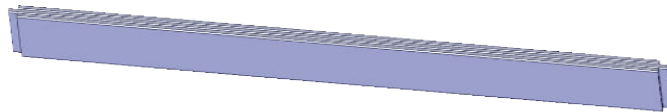
Parts List Continued



Front Header
Extension



Back Header
Extension



Side Header



Side Brace Section



Rafters



Stringers



Set your Pergola package as close to the building site as possible.



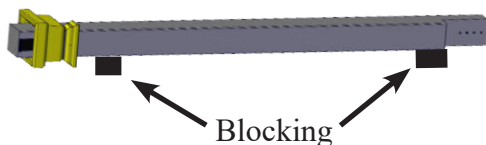
Remove the protective shrink wrap. Do not unwrap until you are ready to build. Keep dry and protected until you are ready to assemble the Pergola.



Start by locating the Front and Back Post. The Front Post will be higher than the Back Post.



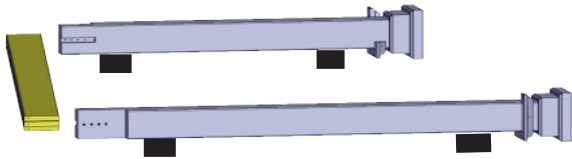
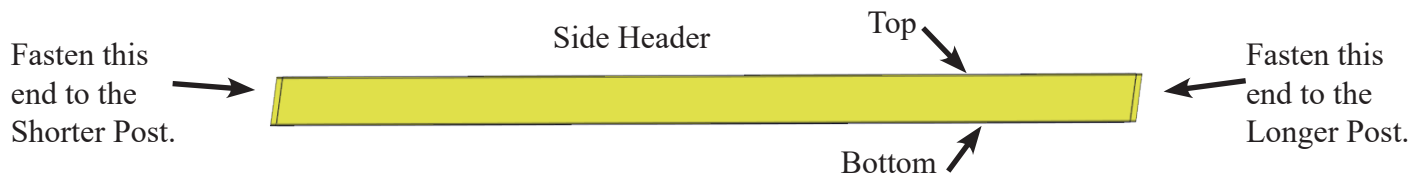
Lay one Front Post and one Back Post on cardboard to protect them from scratching or getting damaged. Prepare the post by installing the Post Skirt and Post Ring.



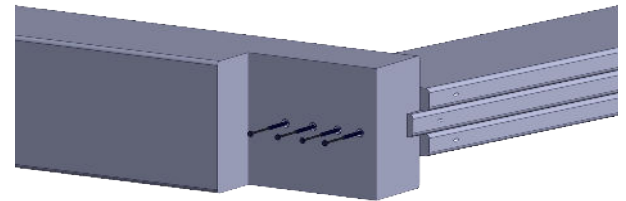
Slide the Post Skirt and Post Ring down to the bottom of the Post. Using your own blocking, block up underneath the post to keep the weight off the Post Trim.



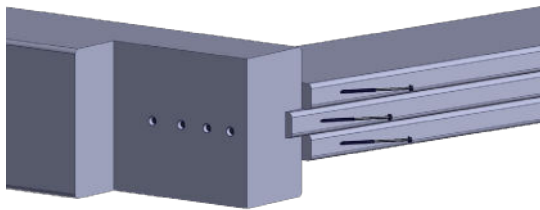
Take note of the Post Ring orientation.



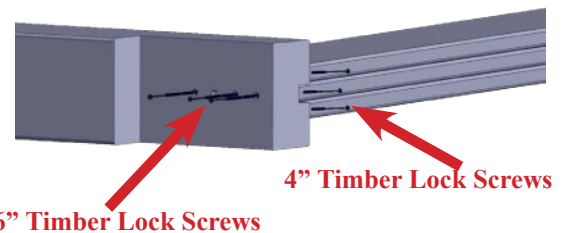
Lay one Back Post and one Front Post down on blocks. Locate the Side Header. Slide into the notches in the Post.



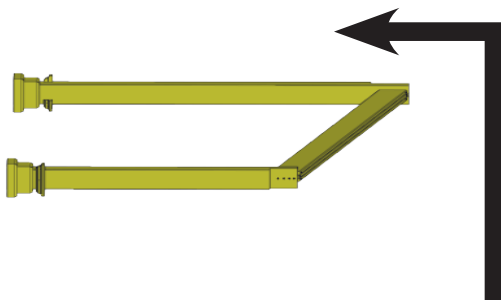
Make sure to push the Header tight against the Post and in against the notch. Fasten the Header through pre-drilled holes with 6" Timber Lock Screws.



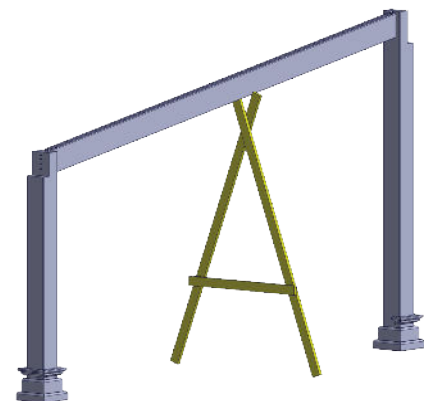
Toe-screw from top down with 4" Timber Lock Screws.



Repeat the previous two steps to fasten the opposite end.



Lift the Post and Header Assembly to its upright position.



To keep the Header Assembly upright, build a temporary X-brace using your own 2x4's.



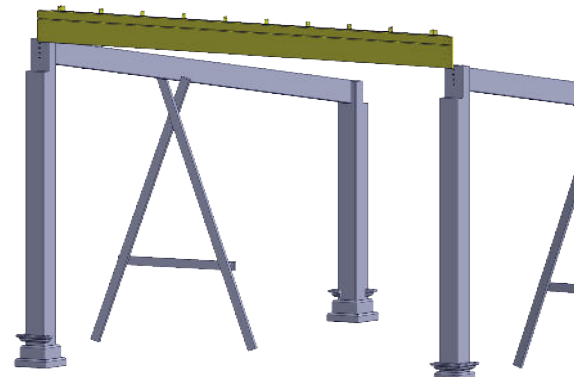
Using previous steps build the second Header and Post Assembly.



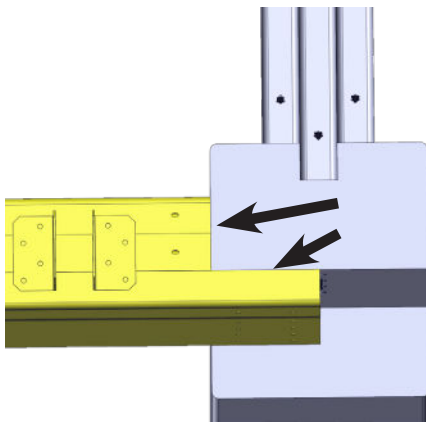
Locate and Measure the Front Header.



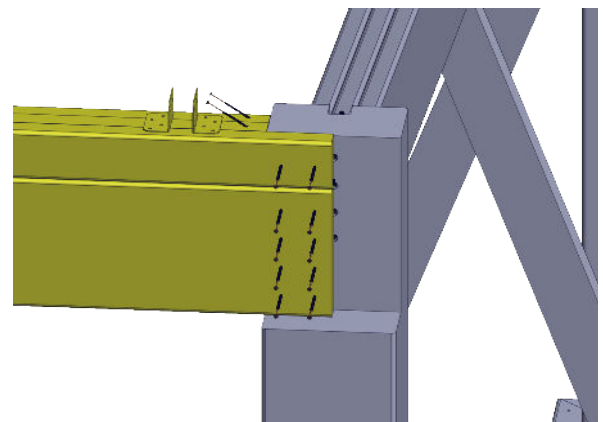
Adjust the distance between the Post and Header Assemblies to match the correct spacing of the Front Header.



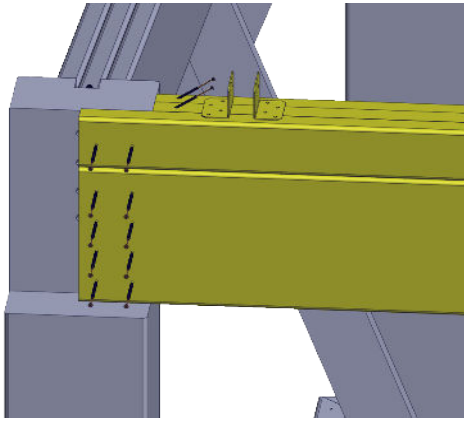
Lift the Front Header into place.



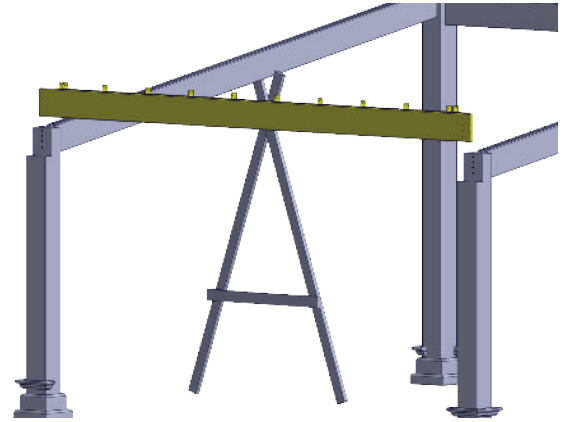
Make sure the Front Header is tight against the Post both sides.



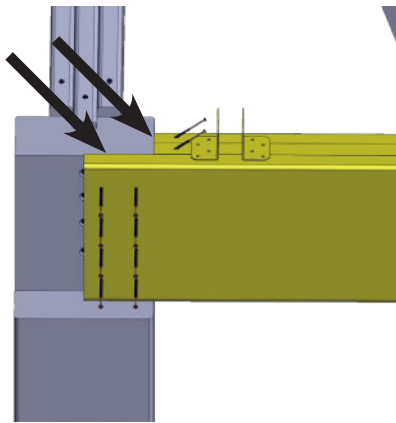
Fasten Front Header with 3 ½" Screws into all pre-drilled holes. Including 3 ½" Screws toed from the top down into the post.



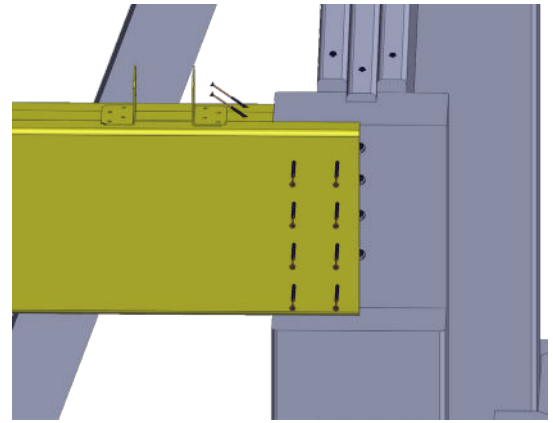
Fasten opposite end of the Front Header using previous step.



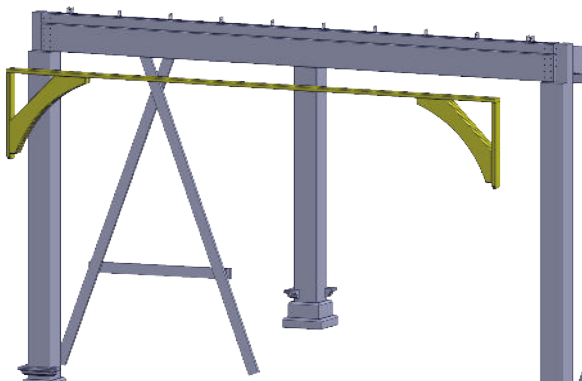
Lift the Back Header in place.



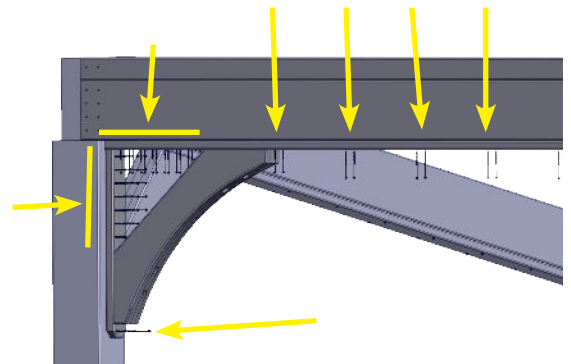
Again make sure the Back Header is tight against both sides and fasten to Post with 3 ½" screws into all pre-drilled holes. Including 3 ½" screws toed from the top into the Post.



Fasten opposite end of the Back Header using previous step.



Locate the Front Brace Section and lift into place between the Post, and tight against the Header. Make flush with the sides of the Header. (The Front Header has large Braces)



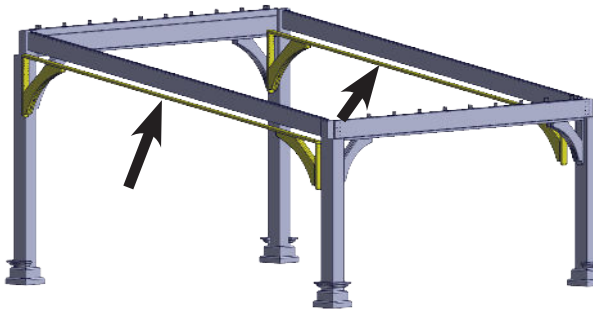
Fasten the Front Brace Section to the Front Header and to Post with 4" Timber Lock Screws through all pre-drilled holes. Also fasten the opposite end and all the way across into the Front Header.



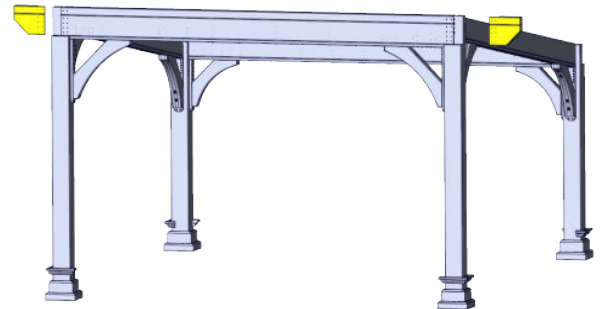
Repeat previous steps to fasten the Back Brace Section in place.



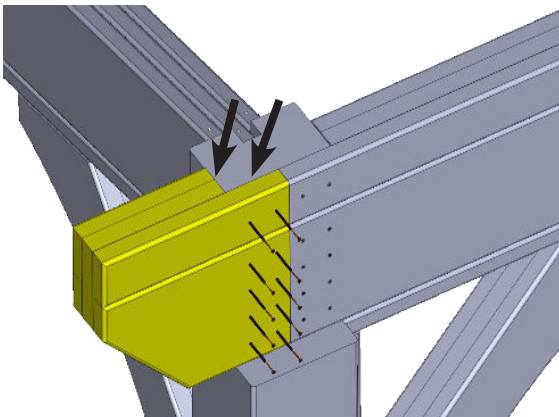
Remove the temporary X-braces.



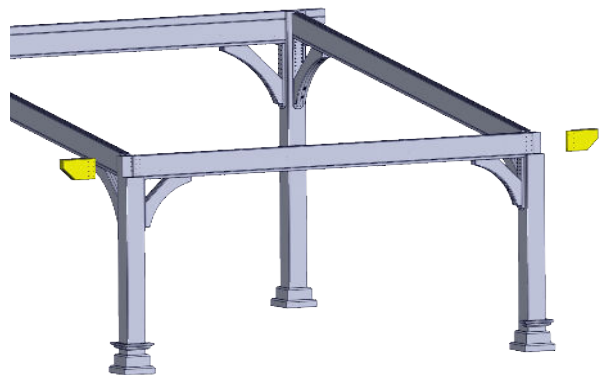
Install the two Side Brace Sections. Fasten with 4" Timber Lock Screws as shown in previous steps.



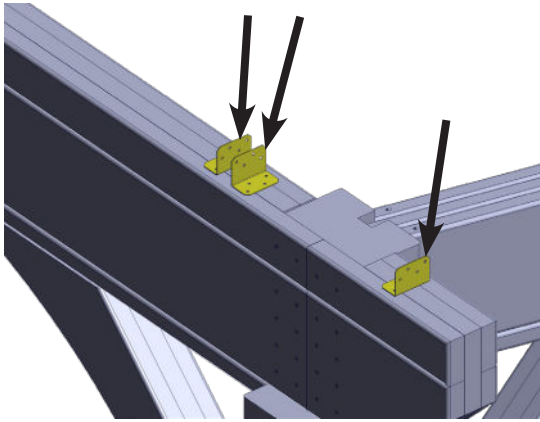
Locate the Front Header Extensions. You will have one left hand and one right hand side. Place the Header Extension on the post notch against the Front Header.



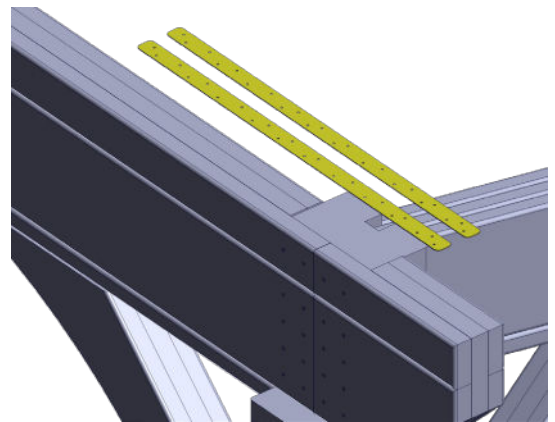
Make sure the Header Extension is tight against the Post. Fasten with 3 1/2" Brown Screws through all pre-drilled holes as shown.



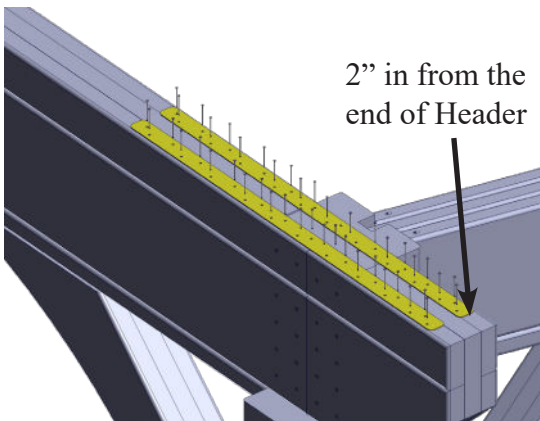
Repeat the previous step for the Back Header Extensions.



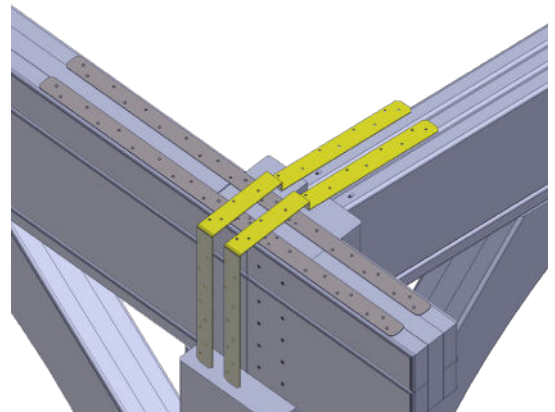
Remove the first three rafter brackets from the Front Header.



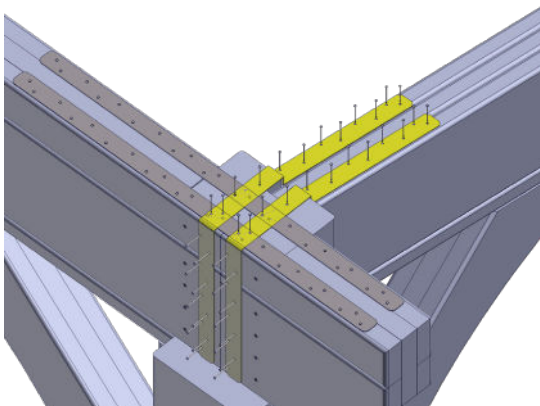
Locate the 30" Simpson Straps. Place on top of Front Headers.



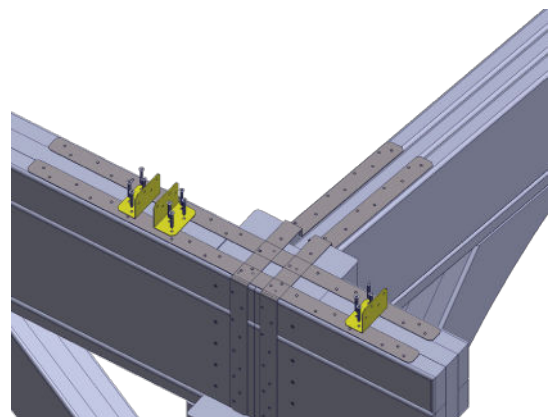
Place the straps on the two outside plies of the Front Header as shown. Fasten with 1 1/2" Nails through all the holes in the Simpson Strap.



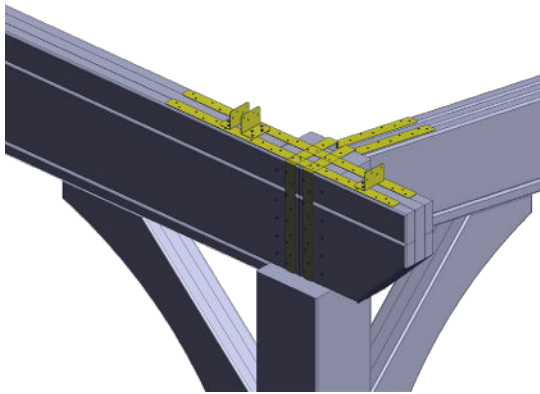
Bend the next two 30" Simpson Straps around the Header and Post.



Place the Simpson Straps on the two outside plies of the Side Header as shown. Fasten with 1 1/2" Nails through all the holes in the Simpson Strap.



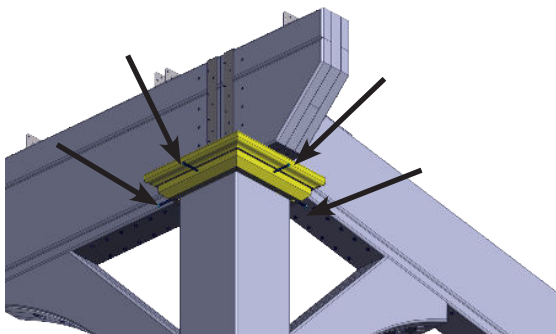
Replace the Rafter Brackets. You will need to pre-drill through the Simpson Straps to get all the screws in the Rafter Brackets.



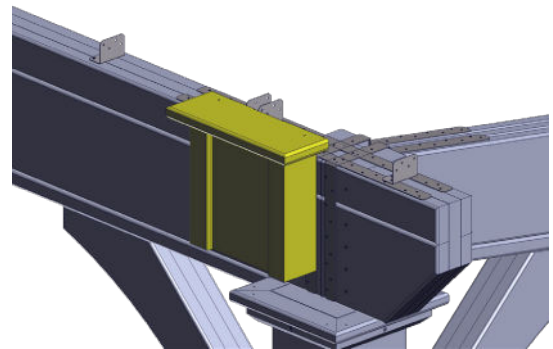
Using the previous steps, install the 30" Simpson Straps at all four corner Post locations.



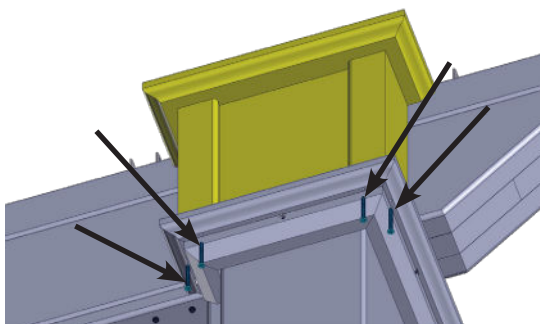
Slide the Post Ring up against the bottom of the Header.



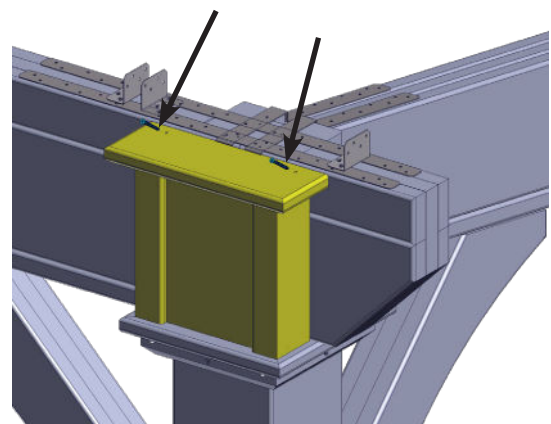
Push up against the bottom of the Header. Fasten to post through pre-drilled holes with 3" Screws at 4 locations.



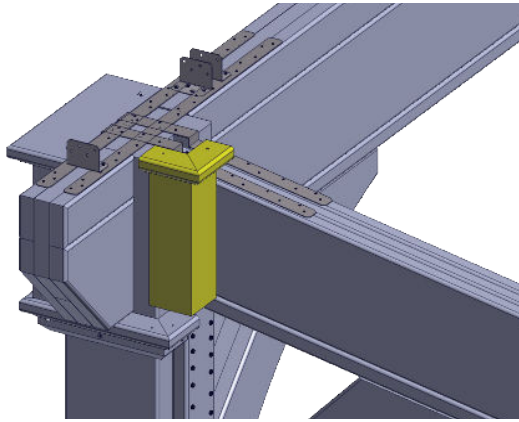
Place the Outside Post Trim on top of the Post Ring.



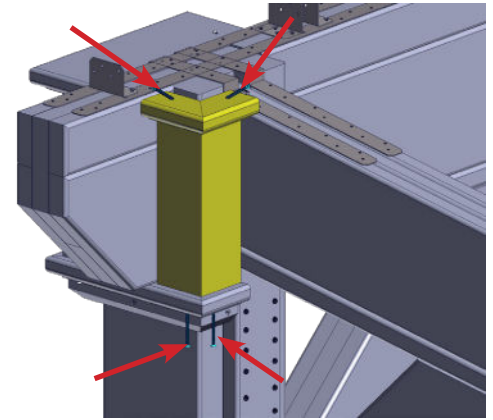
Push against the Header and Post Ring. Fasten from bottom with 3" Screws through pre-drilled holes.



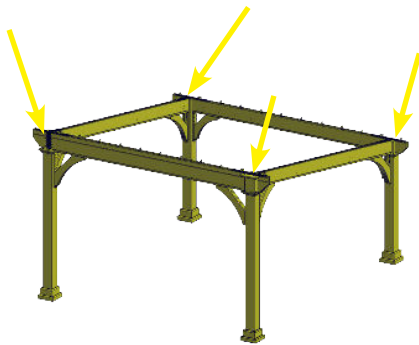
Fasten from top through pre-drilled holes into Header with 3" Screws.



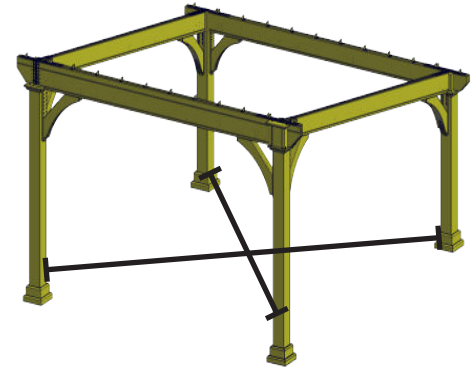
Place Inside Post Trim on top of the Post Ring.



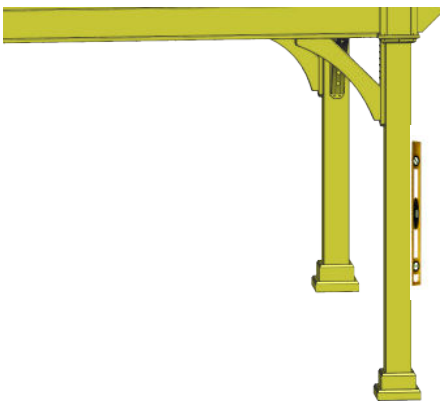
Push against both of the Headers and Post Ring. Fasten through pre-drilled holes with 3" Screws.



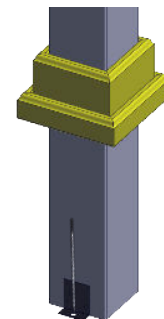
Repeat previous steps to install the Post Ring and Post Trim at all remaining post locations.



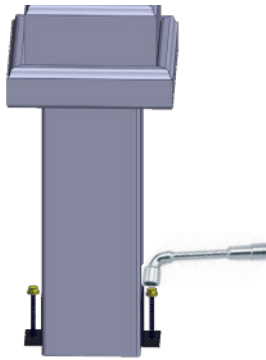
You are now ready to square up the Posts and anchor them down. Measure diagonally from corner to corner to ensure the post and header assembly is square. Adjust Post placement if necessary.



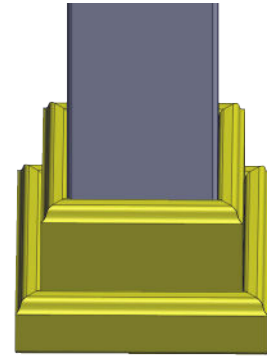
Level all the Posts both ways.



Slide the Post Skirt up and away from the Brackets. Using a hammer drill and a 1/2" concrete drill bit, (not included) drill through the hole in the bracket and into the footings below.



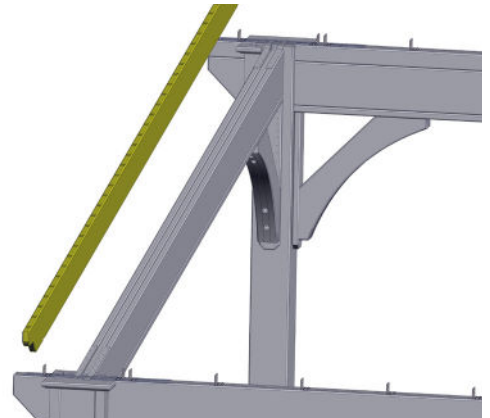
Insert and tighten the ½" Concrete Lags using a ¾" Socket. This is only showing two Concrete Lags. You will need four at each Post. Anchor directly to concrete footer. Do not attach to pavers.



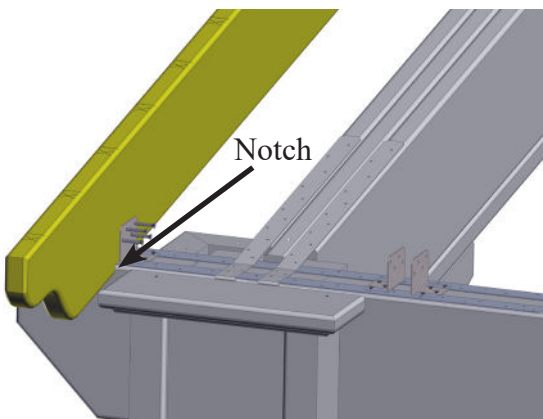
Slide the Post Skirt down firmly into place. Repeat the previous steps to anchor the Post at all remaining Post locations.



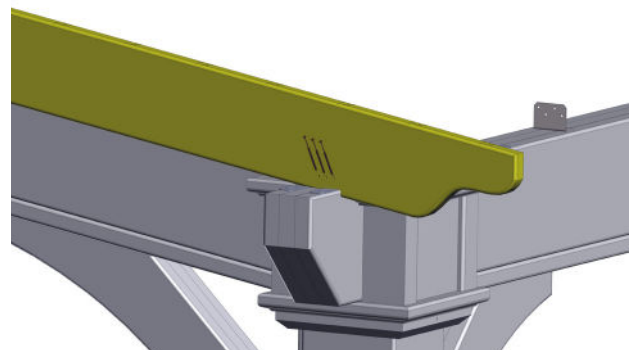
With all the Posts anchored, You are now ready for the Rafters.



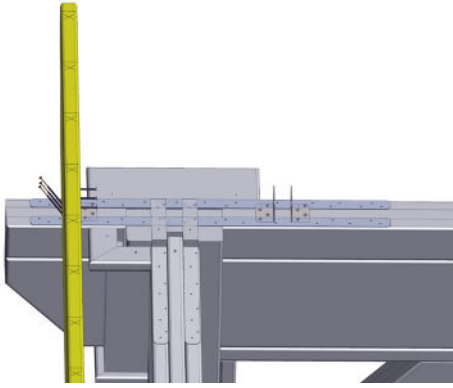
Locate the Rafters.



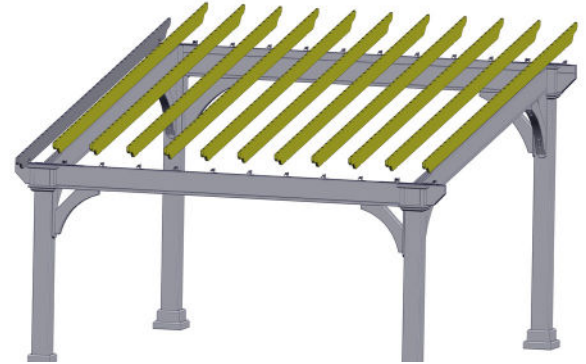
Place the Rafter on the Header. Push the notch on the Rafter against the Header and against the Rafter Bracket. Fasten with 1 ½" Screws through the holes in the Rafter Bracket.



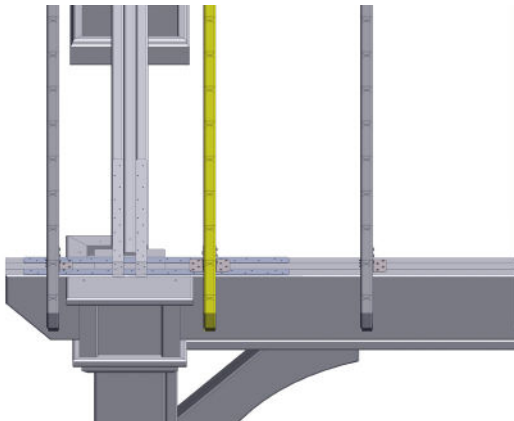
Fasten the opposite side with 3 ½" Screws through the pre-drilled holes. Pre-drill through the Simpson Straps below the Rafter if necessary.



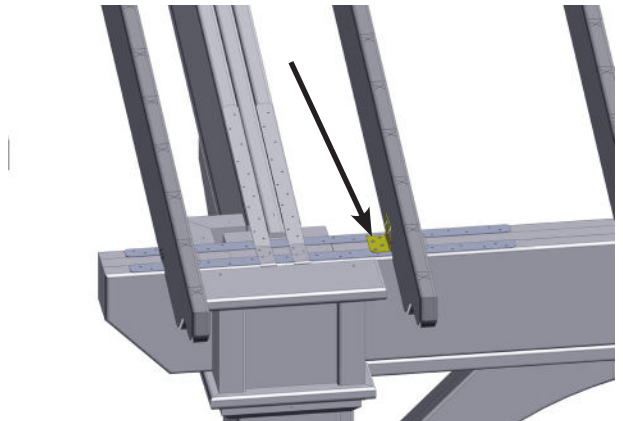
Fasten the opposite end of the Rafter, as shown in previous steps.



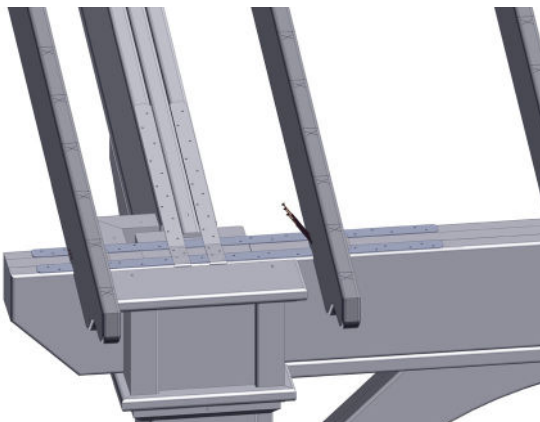
Install all remaining Rafters, as shown in previous steps.



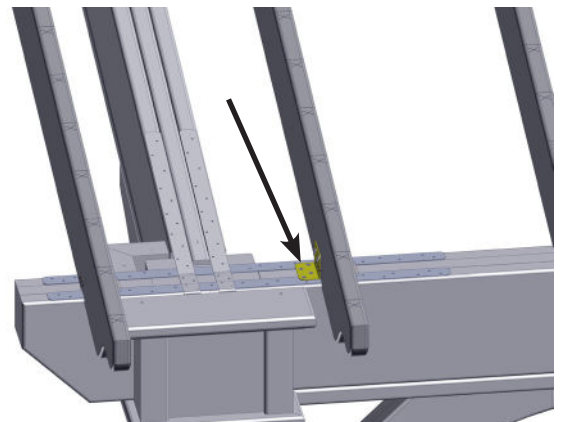
The Second Rafter from each end will have a Rafter Bracket on each side of the Rafter Location.



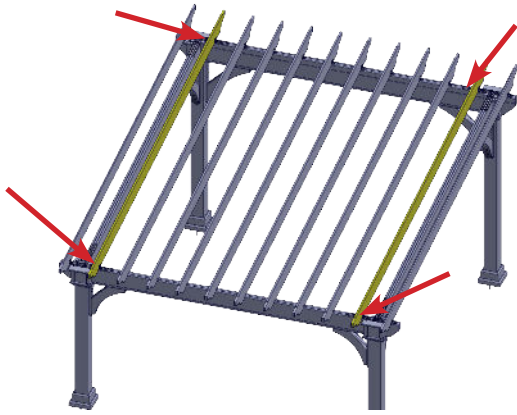
Remove the Rafter Bracket that is on the side with the pre-drilled holes in the Rafter.



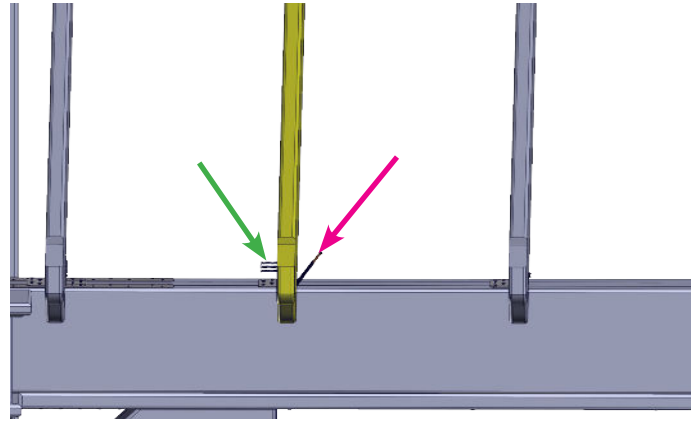
Install the 3 1/2" Screws through the pre-drilled holes in the Rafter. Pre-drill through the Simpson Straps below the Rafter if necessary.



Reinstall the Rafter Bracket. Fasten to the Header and Rafter with 1 1/2" Screws.



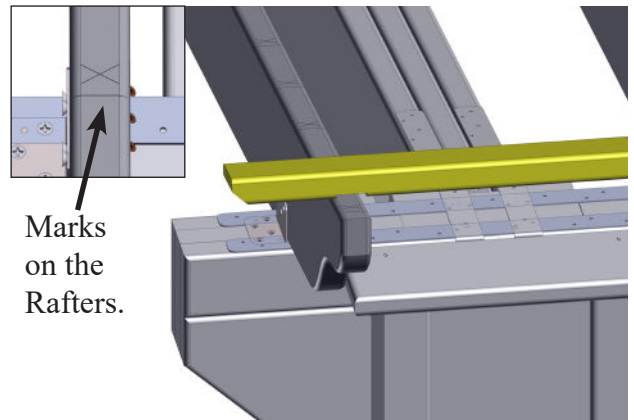
There are four locations that you will need to remove the Rafter Bracket to install the 3 1/2" Screws.



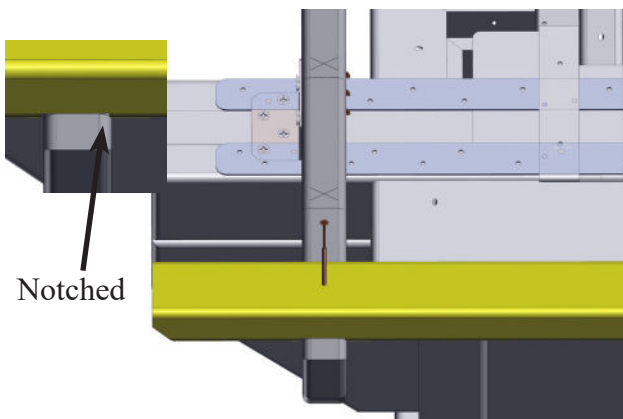
Fasten the remaining rafters at both ends as shown.
3 1/2" Screws toed into Header.
1 1/2" Screws through Rafter Bracket into Rafter.



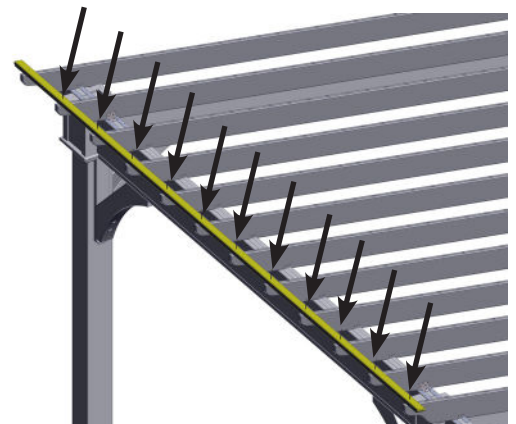
Locate the Stringers.



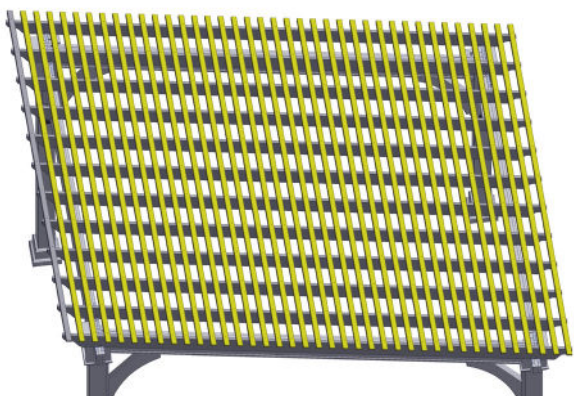
The Rafters will be marked for the Stringer location. Place the Stringer over the X, and align with the mark. The Stringer is notched. Place the notch on the Rafter.



Place the notch in the Stringer securely over the Rafter and aligned with the mark on the Rafter. Fasten with one 3" Screw at each Rafter location.



Fasten the Stringer at each Rafter location with one 3" Screw.



Install all remaining Stringers at the marked locations, as shown in previous steps.



All stringers installed.

Enjoy Your New Santa Fe Pergola!

