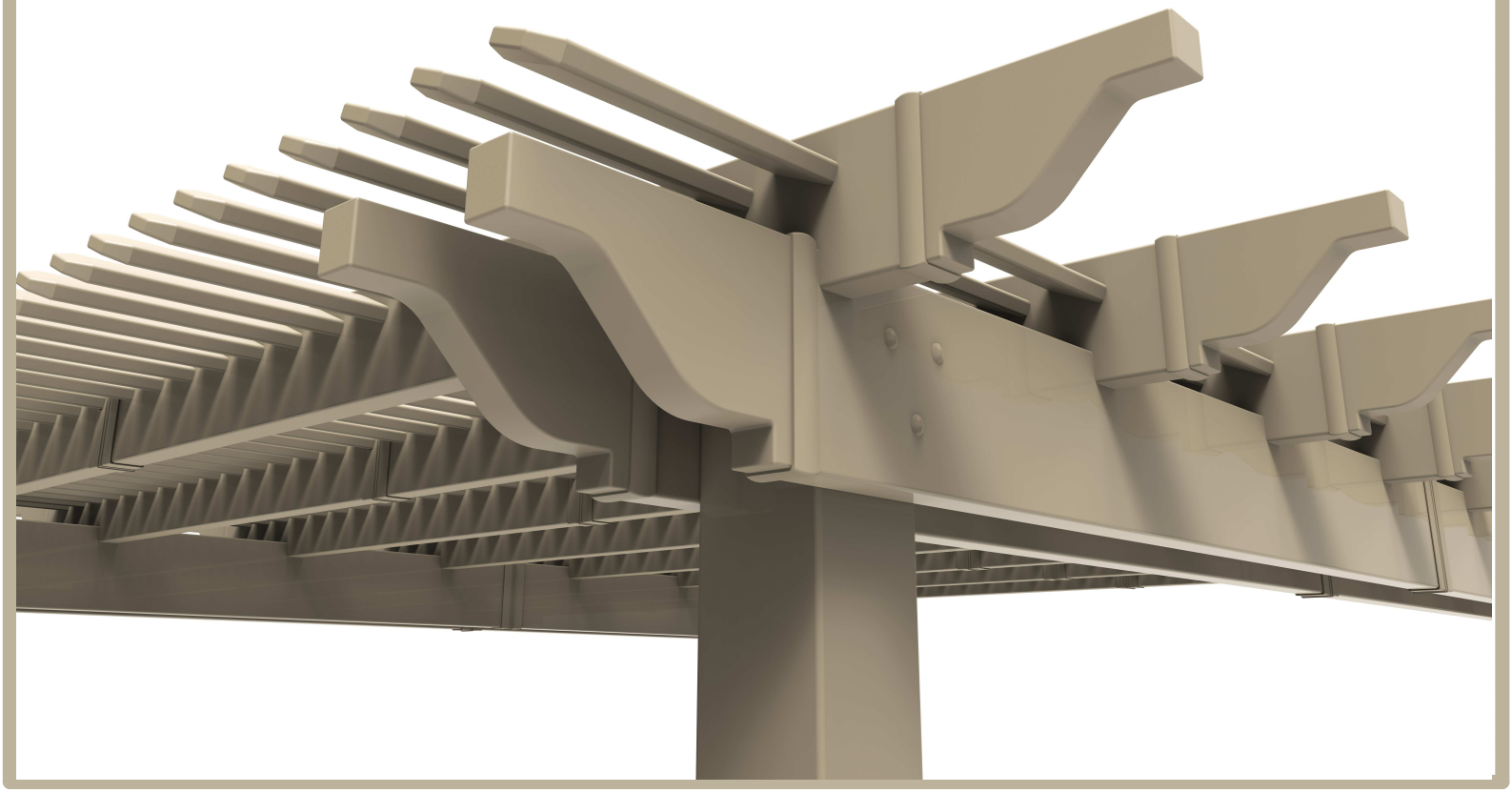
BERLIN GARDENS LLC

take life outdoors™

BRADFORD PERGOLA INSTALLATION GUIDE



Hardware Include

A
1 1/2" Wood Screw

B
2" Self Drilling Screw

C
2 1/2" Wood Screw

D
5" Wood Screw

E
1 1/2" Wood Lag

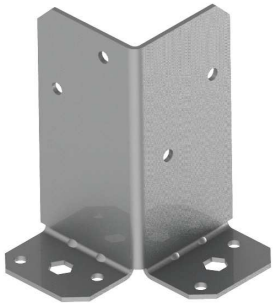
F
2 3/4" Wood Lag

G
4" Wood Lag

H
6" Wood Lag

I
3/8" x 2 1/2" Wood Lag

J
3/8" x 3" Concrete Lag



K
Simpson Anchor Bracket

2" Torx
Drive Bit

3 1/2" Square
Drive Bit

6" Torx
Drive Bit

PVC Glue

Hardware Quantity List

Type	A	B	C	D	E	F	G	H	I	J	K
Pergola Size	1 1/2" Wood Screws	2" Self Drilling Screws	2 1/2" Wood Screws	5" Wood Screws	1 1/2" Wood Lag	2 3/4" Wood Lag	4" Wood Lags	6" Wood Lags	3/8" x 2 1/2" Wood Lags For Anchor Brackets (For Deck Application Only)	3/8" x 3" Concrete Lags for Anchor Brackets (For Concrete Application Only)	Anchor Brackets
12 x 12	48	60	24	24	32	24	24	16	16	16	8
12 x 14	64	60	24	32	32	32	24	16	16	16	8
14 x 14	64	72	24	32	32	32	24	16	16	16	8

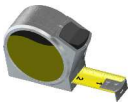
Tools Required

Suggested People Required For Assembly - (2)

Saftey Glasses

Socket Wrench with 9/16" Socket

Drill



Tape Measure

Level

Hammer Drill with 3/8" Concrete Drill Bit

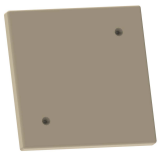
Step Ladder x 2

Bradford Pergola Parts

2x6 Scrolled End Cap for Purlins

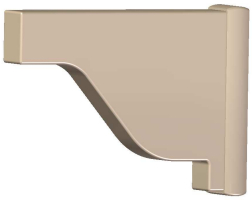
Purlin Coupling

Beam Coupling



Bottom Post Cap
(smaller one of the two sizes.)

Top Post Cap
(larger one of the two sizes.)



2x8 Scrolled End Cap for Beams

5/8" Vinyl Plug

3/8" Vinyl Plug

Post Trim Ring

Aluminum Purlin Bracket

2x4 Wood Purlin Insert - Part I

2x4 Wood Purlin Insert - Part 2

Vinyl Purlin Sleeve - Part I

Vinyl Purlin Sleeve - Part 2

Wood Beam Insert - Part I

Wood Beam Insert - Part 2

Vinyl Beam Sleeve - PartI

Vinyl Beam Sleeve - Part 2

Short Shade Slat

Long Shade Slat

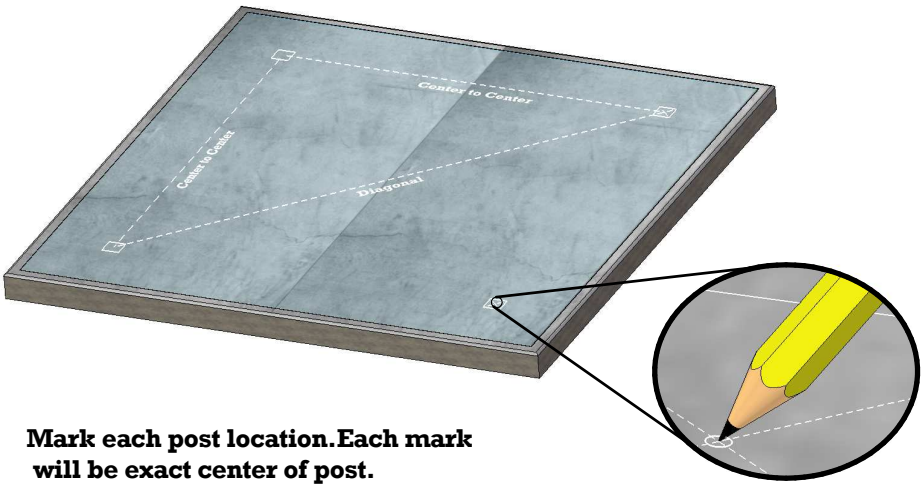
Vinyl Post with Wood Insert

Pergola Parts Quantity

Pergola Size	2x6 Scrolled End Caps for Purlins	2x8 Scrolled End Caps for Beams	Purlin Couplings	Beam Couplings	Top Post Caps	Bottom Post Caps	5/8" Vinyl Plugs	3/8" Vinyl Plugs	Post Trim Ring	Aluminum Purlin Bracket	2x4 Wood Purlin Insert - Part 1	2x4 Wood Purlin Insert - Part 2	Vinyl Purlin Sleeve - Part 1	Vinyl Purlin Sleeve - Part 2	Wood Beam Insert - Part 1	Wood Beam Insert - Part 2	Vinyl Beam Sleeve - Part 1	Vinyl Beam Sleeve - Part 2	Vinyl Short Shade Slats	Vinyl Long Shade Slats	Vinyl Post with Wood Insert
12 x 12	12	8	6	4	4	4	24	24	4	6	6	6	6	6	4	4	4	4	30	30	4
12 x 14	16	8	8	4	4	4	24	32	4	8	8	8	8	8	4	4	4	4	30	30	4
14 x 14	16	8	8	4	4	4	24	32	4	8	8	8	8	8	4	4	4	4	36	36	4

Step 1

Post Placement Layout



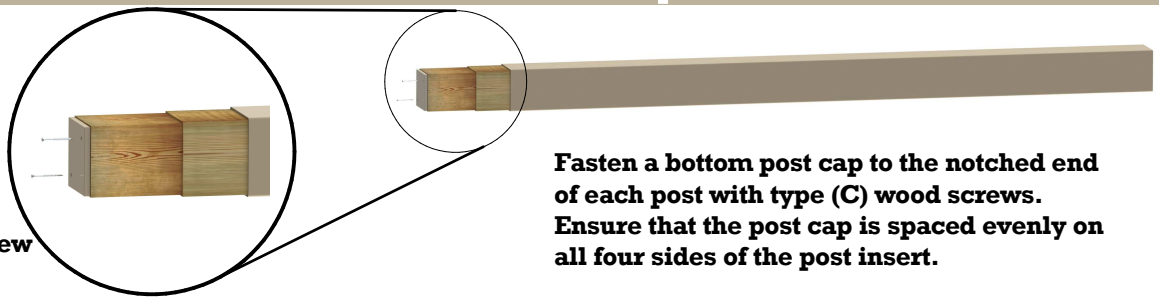
Mark each post location.Each mark will be exact center of post.

Post Layout Measurments		
Pergola Size	Center to Center	Diagonal
12 x 12	106 3/4" X 106 3/4"	150 15/16"
12 x 14	106 3/4" X 130 3/4"	168 3/4"
14 x 14	130 3/4" X 130 3/4"	185"

Note:
If the surface you are mounting the pergola to is not completely level, consider cutting the posts accordingly to ensure the finished pergola is level.

Step 2

Bottom Post Cap Attachment



Type (C) 2 1/2"Wood Screw x2 Per Post

Fasten a bottom post cap to the notched end of each post with type (C) wood screws. Ensure that the post cap is spaced evenly on all four sides of the post insert.

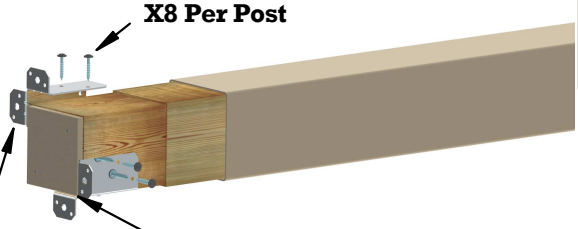
6" Torx Drive Bit

Step 3

Post /Anchor Bracket Pre-assembly

Fasten two Type (K) Anchor Brackets to the bottom of each post with type (E) 1 1/2" wood lags.

Tpye (E) 1 1/2" Wood Lag X8 Per Post

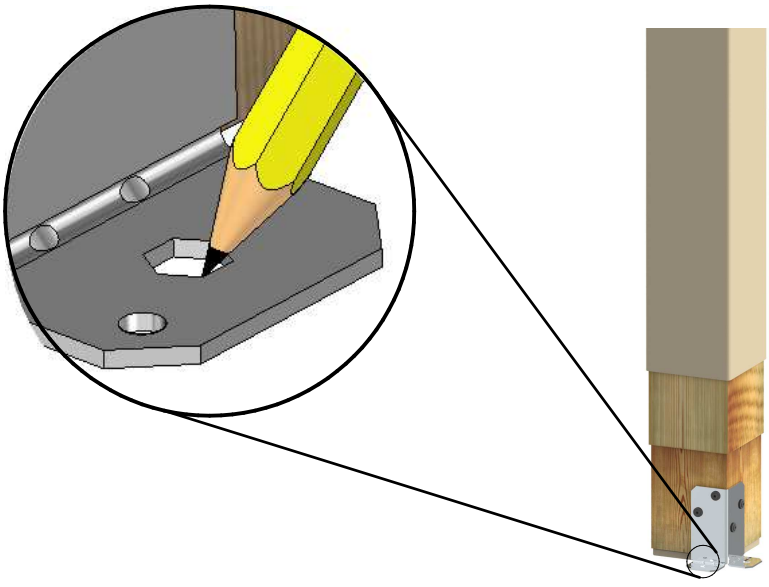


Type (K) Simpson Anchor Bracket X2 Per Post

Keep anchor bracket flush with bottom of post cap.

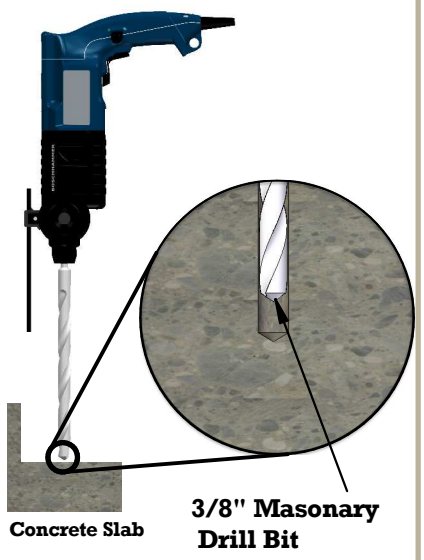
2" Torx Drive Bit

Locate posts on center marks that you created in step 1. With pencil mark locations where either concrete lags or wood lag will be placed.
(lag type depends on surface pergola is being attached to.)

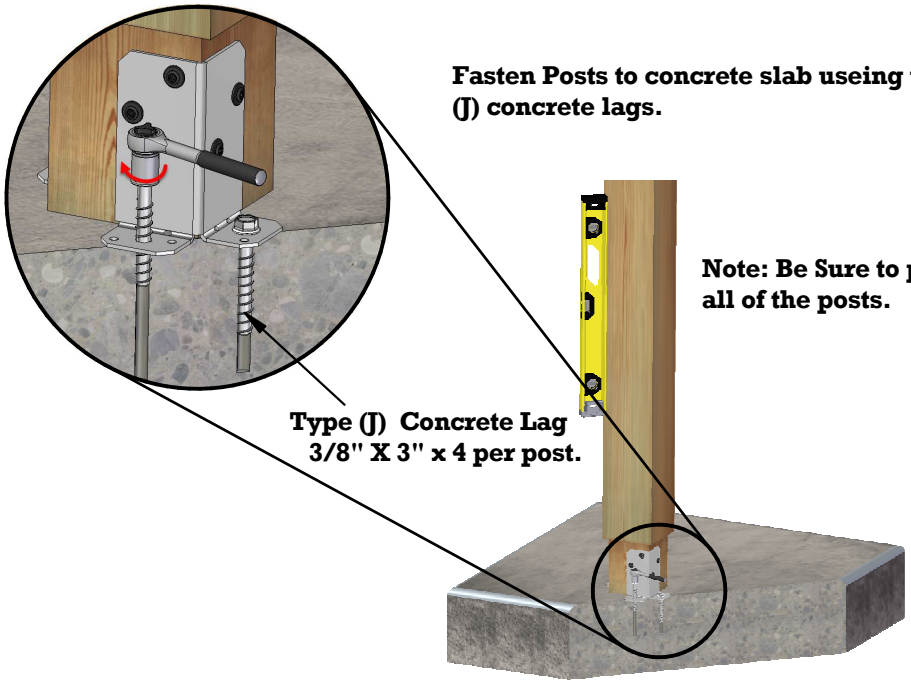


Fastening Posts To Concrete

Using a hammer drill with a 3/8" concrete bit, drill holes 1/2"deeper than the length of the type (J) lag.

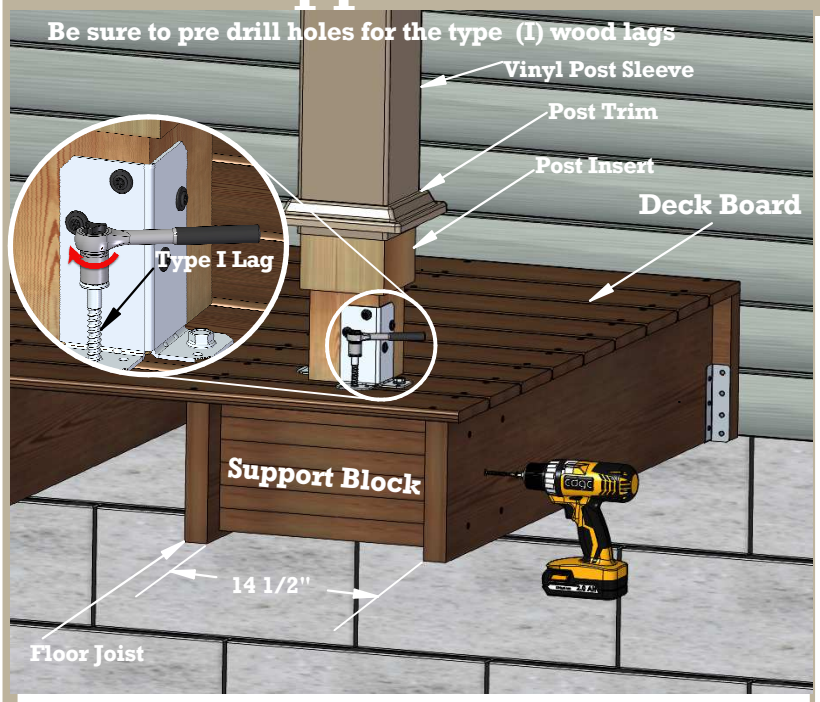


Fasten Posts to concrete slab useing type (J) concrete lags.



Note: Be Sure to plum all of the posts.

Deck Application

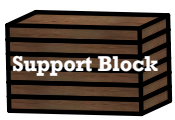


If your posts are not located so you can attach them to a floor joist, follow the below instructions.

Make a support block by cutting a generic treated board (not included) into 6 pieces that are the same length as the spacing inbetween the floor joists of your deck. Fasten the 6 pieces together using 2 1/2" deck screws (not included). You will need to make four blocks like this.

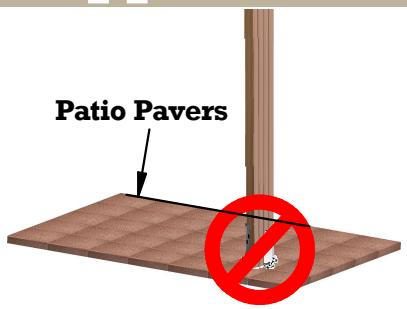
Fasten a support block inbetween the floor joists at the location of each pergola post. Push the block up against the deck boards and and attach it by driving 3 1/2" deck screws (not included) through the sides of the floor joists and into the support block.

Now attach your pergola posts to the deck as shown in the example above. The lags (type I) should go through the deck boards and into the support blocks.

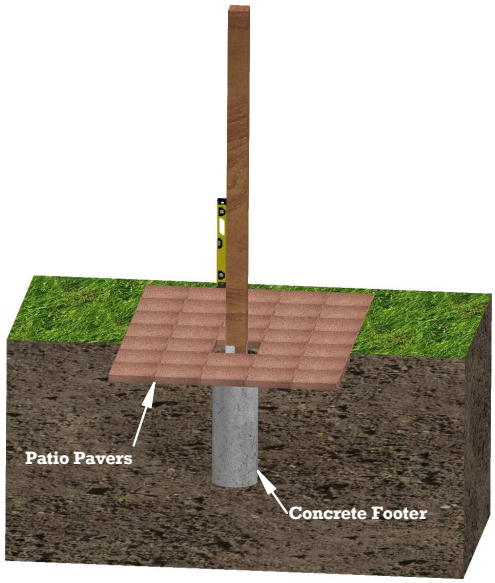


Patio Paver Application

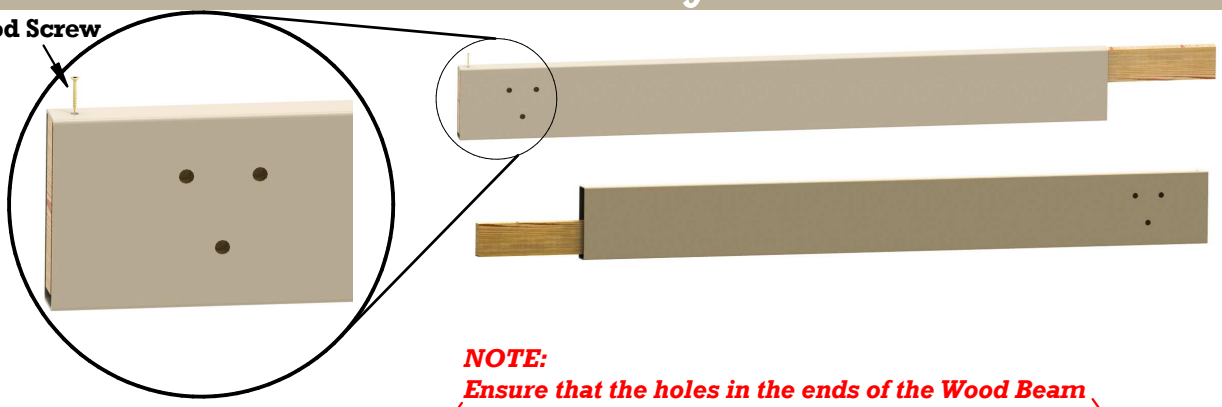
WARNING!
Do not mount posts directly onto patio pavers.
(PAVERS ARE NOT STABLE)



If installing on a paver patio, pavers should be removed at each post location. Dig holes 3 ft in depth or recommended hole depth your local building codes. Fill holes with concrete to createa solid footer for posts. After concrete footers are completely cured, attach posts using the same method shown at the top of this page.



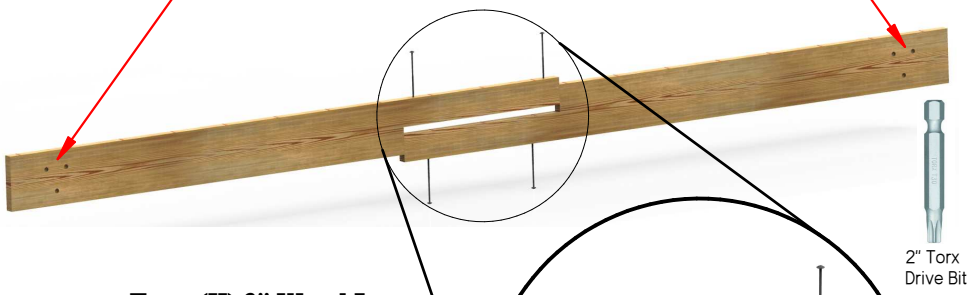
Beam Assembly



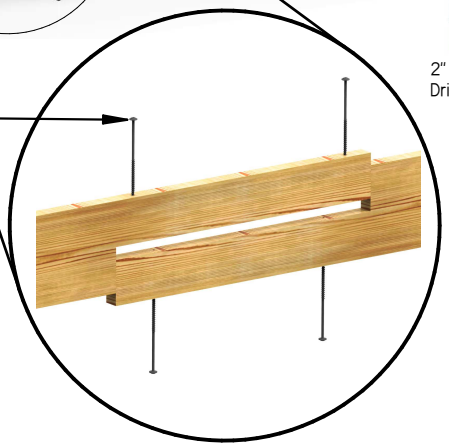
Remove the 1 1/2" Wood Screws that are located at one end of each Vinyl Beam. Now remove the Wood Beam Inserts from the Vinyl Sleeve.

Be sure to save these screws as you will re-install them once your beams are completely assembled.

NOTE:
Ensure that the holes in the ends of the Wood Beam Inserts are outward and turned as shown below.

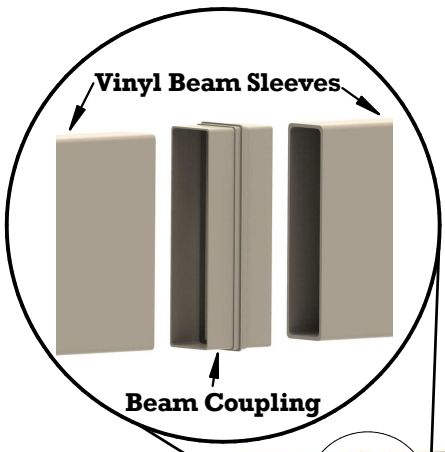


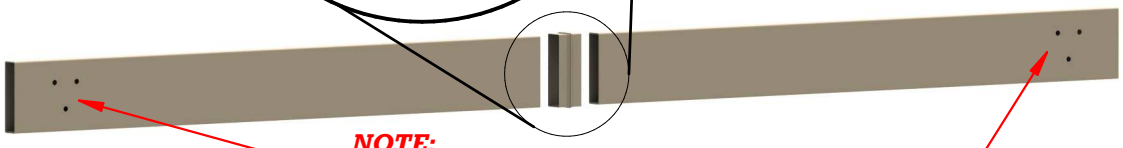
Assemble two Wood Beam Inserts by fitting the notched ends together as shown. Fasten them to each other by driving four type (H) wood lags into the pre-drilled holes. Tighten until the heads of the lags are pulled down flush with the surface of the wood.



Apply PVC Glue along the inside edges of the Beam Coupling and firmly push onto the end of a Vinyl Beam Sleeve. Add a second Vinyl Beam Sleeve on the other side of the Beam Coupling.

Beam Coupling





NOTE:
Ensure that the holes in the ends of the Vinyl Beam Sleeves are outward and turned as shown above.

Ensure these hole patterns are turned the same way on both pieces.

Slide the assembled Wood Beam Insert into the assembled Vinyl Beam. Drive the screws you removed in (Step A) into the holes you removed them from. These screws are to pull the wood insert up against the top wall of the vinyl sleeve.

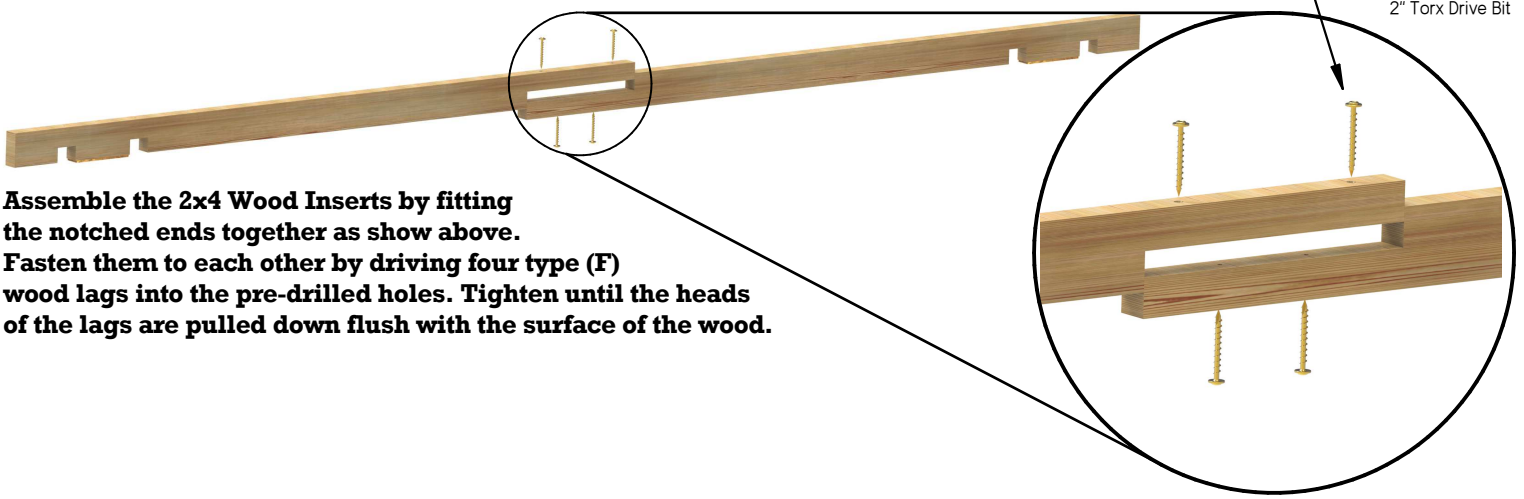
Purlin Assembly

Remove two 2x4 Wood Purlin Inserts from the Vinyl Purlin Sleeves shown above.

Note:
There are 4 Vinyl Purlin Sleeves that have pre-drilled holes along the full length of the top side.
Those are to be used together and will be the Outside Purlins for the pergola.

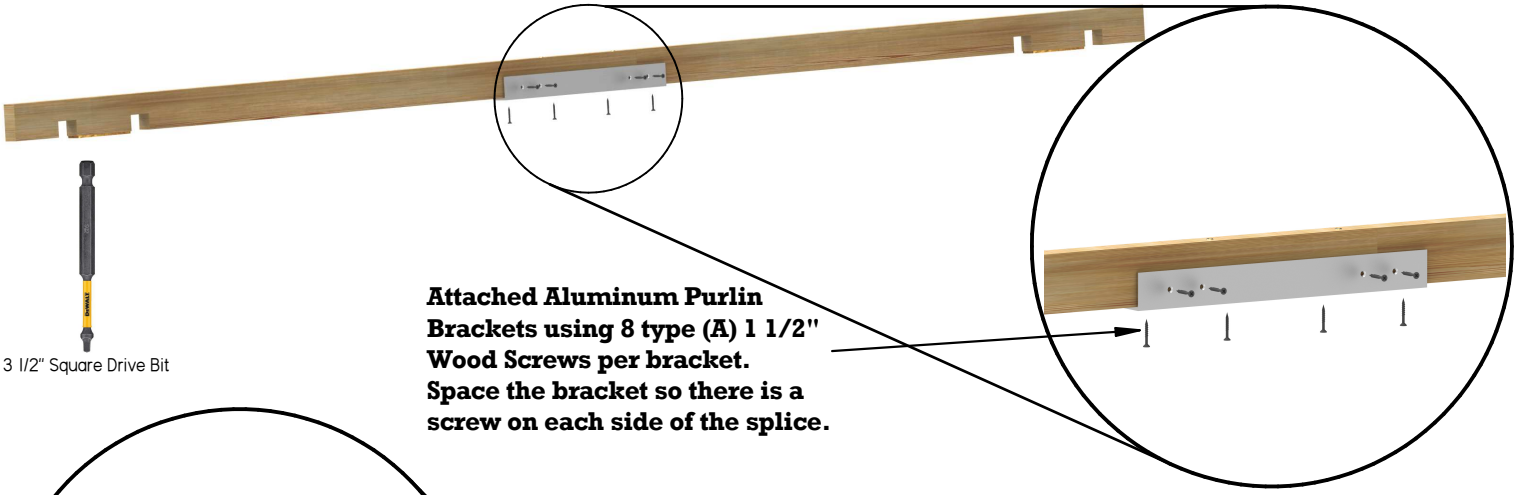
Type (F) 2 3/4" Wood Lags

2" Torx Drive Bit



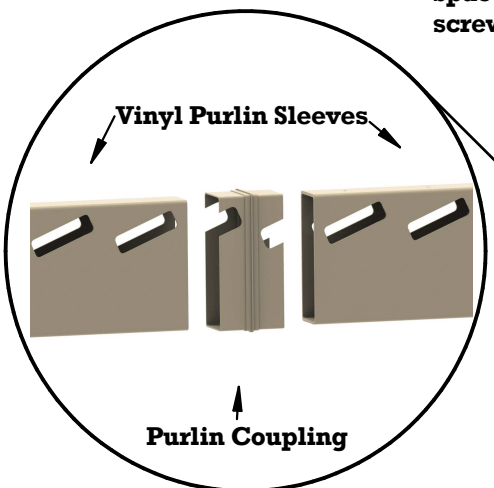
Assemble the 2x4 Wood Inserts by fitting the notched ends together as show above. Fasten them to each other by driving four type (F) wood lags into the pre-drilled holes. Tighten until the heads of the lags are pulled down flush with the surface of the wood.

Install one Aluminum Purlin Bracket on each assembled 2x4 Wood Purlin Insert. This bracket is to provide reinforcement where the wood is spliced.



3 1/2" Square Drive Bit

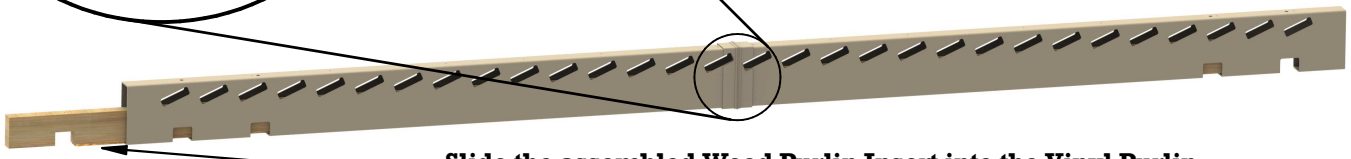
Attached Aluminum Purlin Brackets using 8 type (A) 1 1/2" Wood Screws per bracket. Space the bracket so there is a screw on each side of the splice.



Purlin Coupling

Apply PVC Glue along the inside edges of a Purlin Coupling and firmly push onto the ends of a Vinyl Purlin Sleeve. Add a second Vinyl Purlin Sleeve on the other side of the Purlin Coupling.

Ensure that the cutouts and notches at the ends are as show below.



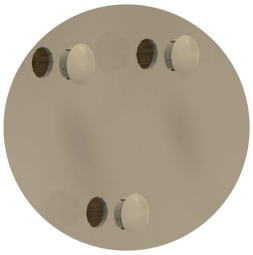
Slide the assembled Wood Purlin Insert into the Vinyl Purlin ensuring the notches are turned as show in the example.

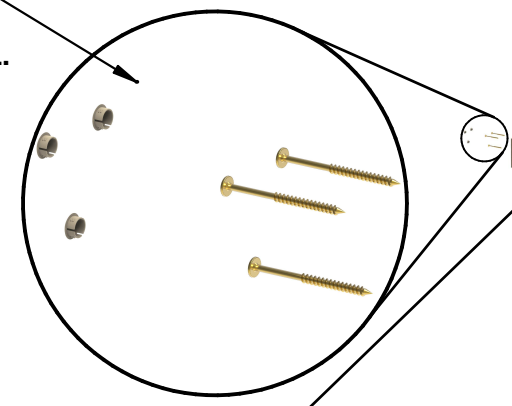
Beam Installation

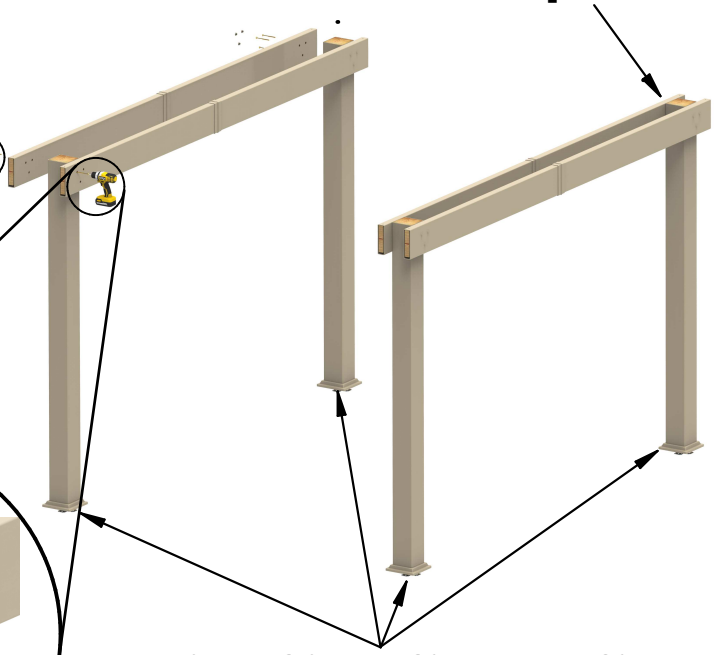
Fasten Beams With Type (G) 4" Wood Lags

Apply 5/8" Vinyl Plugs After Beams Are Installed.

Keep Beams Flush With Top Of Posts.







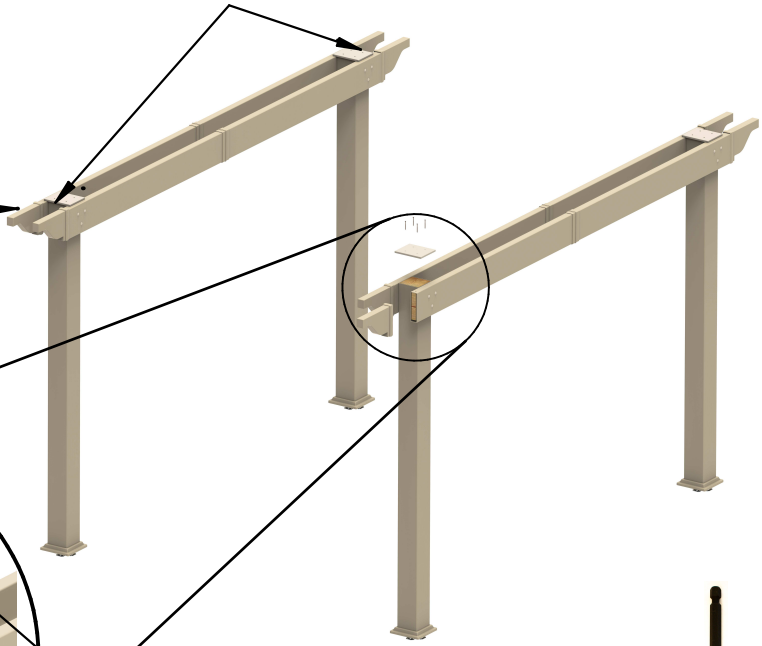
2" Torx Drive Bit

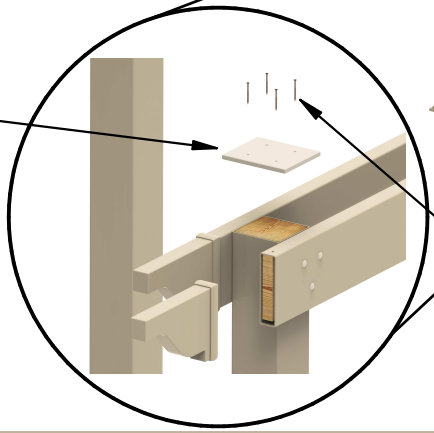
BE SURE TO SLIDE POST TRIM RINGS ONTO POSTS BEFORE INSTALLING BEAMS!

Step 8 Top Post Cap / Beam End Cap Installation

Apply PVC Glue along the inside edges of the (2X8 Scrolled End Cap), firmly push and hold in place on end of beam.

Keep top post caps flush with outside of posts.





Install the Top Post Caps on all the posts. These are to prevent moister from entering the wood inserts.

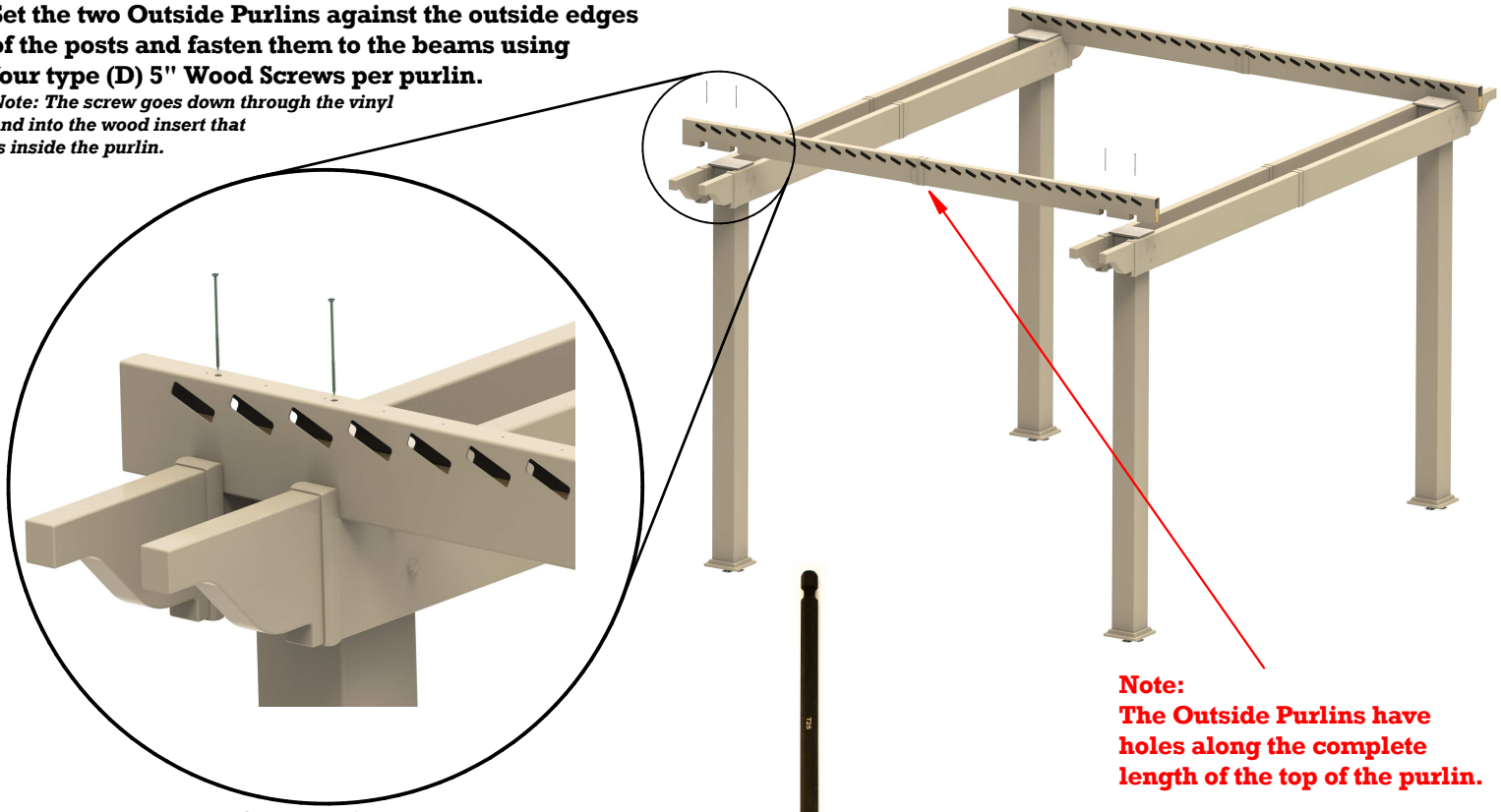
Fasten Top Post Caps with four type (C) 2 1/2" Wood Screws.

6" Torx Drive Bit

Purlin Installation

Set the two Outside Purlins against the outside edges of the posts and fasten them to the beams using four type (D) 5" Wood Screws per purlin.

Note: The screw goes down through the vinyl and into the wood insert that is inside the purlin.

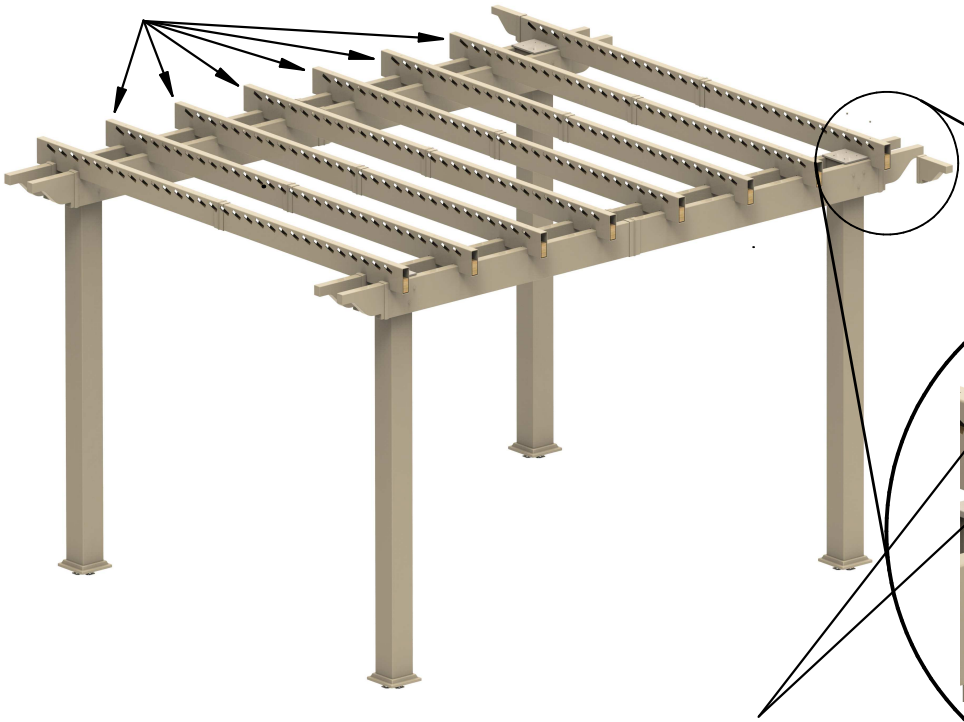


Note:
The Outside Purlins have holes along the complete length of the top of the purlin.

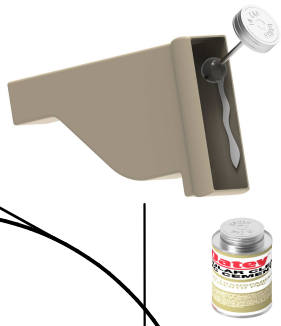
6" Torx Drive Bit

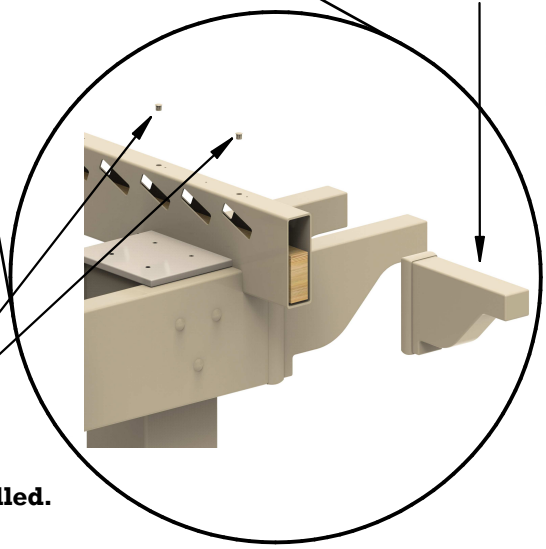
Spread out the rest of the purlin equally inbetween the two outside purlins. Fasten them using the same screws and bit as specifed above.

(If your pergola is a 12'x12' model, there will be two (2) less purlins then shown below.)



Apply PVC Glue along the inside edges of the (2x6 Purlin End Caps), firmly push and hold in place on end of purlins.





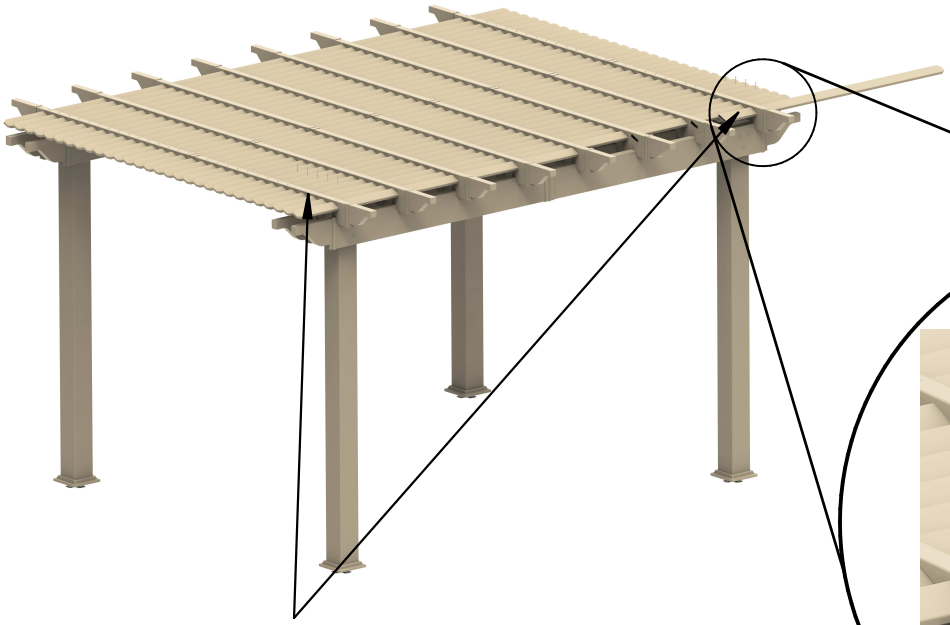
Apply 3/8" Vinyl Plugs after purlins are installed.

Shade Slat Installation

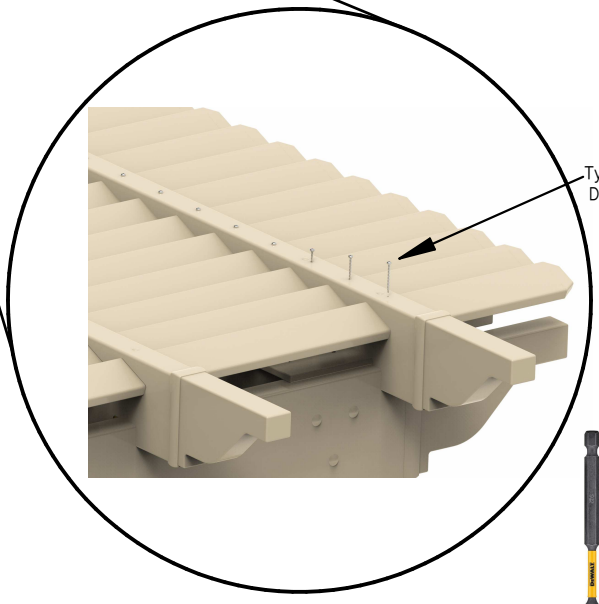
Slide the Long Shade Slats in from one end. The end of the Shade Slat with a cap on it should be even with the scrolled end cap of the beams.

Push shade slats through cut outs in purlins.

Make ends of Shade Slats even with end of beams.



Slide the Short Shade Slats in from the other end of the pergola. Again ensure that the ends with caps are even with the ends of the beams.

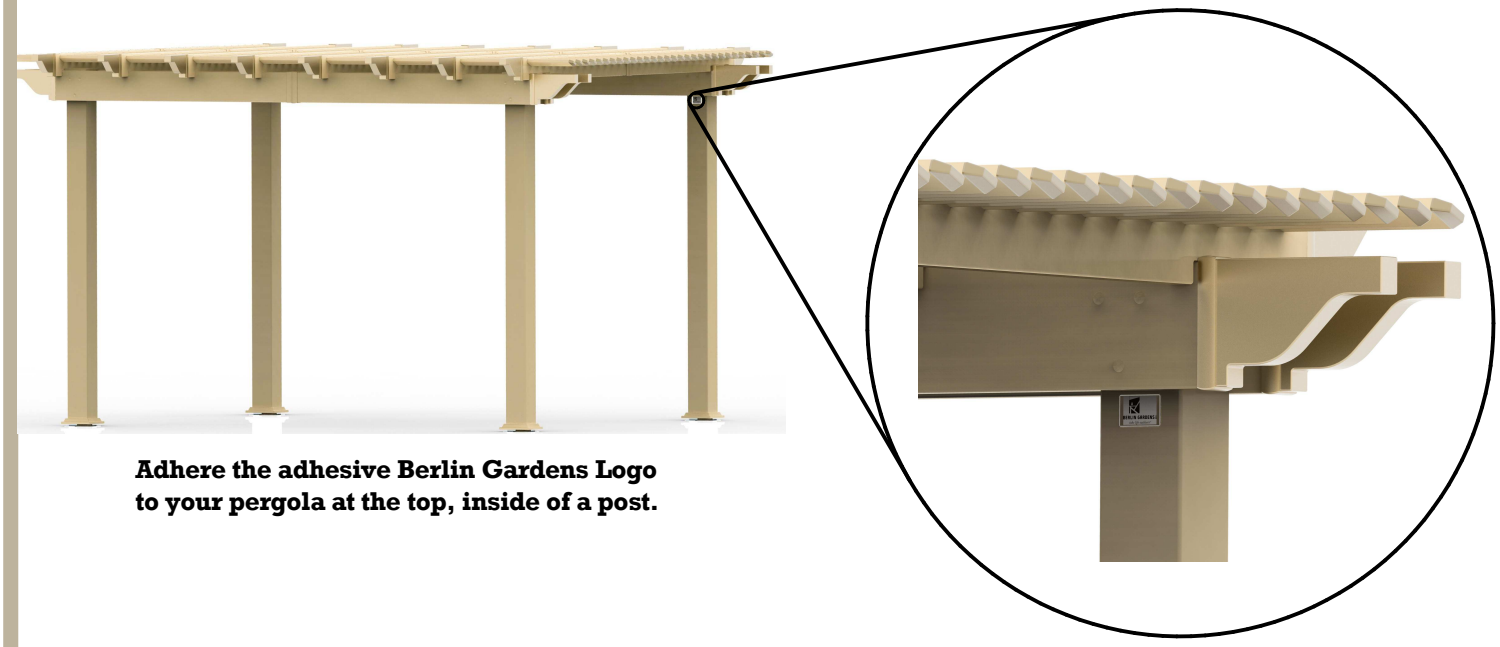


Type (B) 2" Self Drilling Screw

3 1/2" Square Drive Bit

Fasten the Shade Slats by driving a type (B) 2" Self Drilling Screws into each predrilled hole in the two Outside Purlins.

Berlin Gardens Label Installation



Adhere the adhesive Berlin Gardens Logo to your pergola at the top, inside of a post.

Congratulations, your pergola is complete!

Proper Care & Maintenance for Vinyl Structures

Berlin Gardens vinyl structures include Vinyl Swing Arbors, Vinyl A-Frames, Vinyl Pavilions, Vinyl Pergolas, and Vinyl Gazebos, and are manufactured using a treated lumber interior core and concealed with a vinyl sleeve, containing 50% recycled content.

All fasteners such as; screws, bolts and nuts are specifically treated to withstand the treatment of the lumber and differing weather elements. Our fasteners are ICC rated, known in the construction industry as a standard of excellence.

While Berlin Gardens believes they have designed their vinyl structures to meet and exceed industry standards, like all vinyl products exposed to the elements, vinyl may color shift slightly over time, but is guaranteed to not crack or chalk.

While Berlin Gardens Vinyl Structures are only offered in White or Clay; White (but not limited to this color) may need to be cleaned more frequently in order to maintain its original beauty.

To maintain the beauty of your vinyl structure, it is permissible to spray the vinyl structure thoroughly with a nonabrasive cleaner, then scrub using a soft bristle brush, and rinse thoroughly using warm, clean water.

In extreme circumstances, spray the vinyl structure with a nonabrasive cleaner and wash it using a high-pressure washer not exceeding 1500 PSI. Do not place the tip of your pressure washer closer than 8”-12” from the vinyl to avoid tearing into the material.