

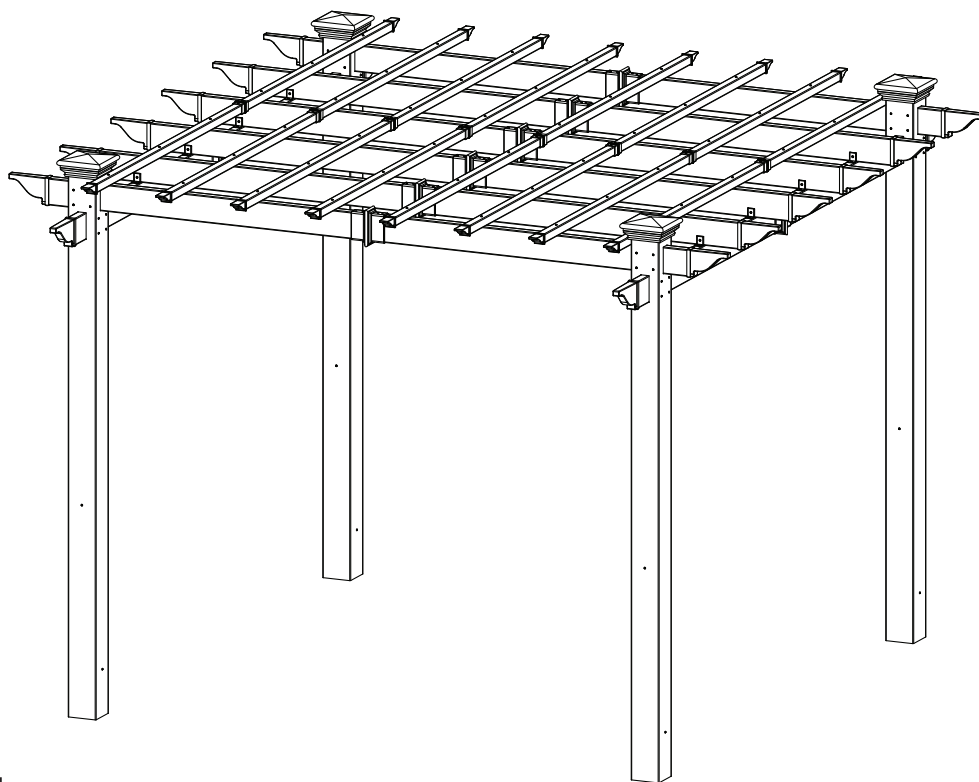
OPTIONAL ACCESSORIES

- A) Bolt Down Bracket Kit (*4 for Pergola*)
- B) Tall Base Molding
- C) Short Base Molding

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Introduction & Overview



Getting Started

First off, allow us to say thank you for the investment you have made in one of our fine pergola kits. This kit is designed to be assembled and installed ideally by two people with basic carpentry knowledge and tools. Do not attempt alone, especially during the installation stage. Should you decide to moderately modify the dimensions of your pergola from the standard kit size, a circular saw with a sharp fine-tooth blade is all that is needed to cut, shorten or modify the vinyl components. The steel stiffeners for the main beams can be cut down using either a hacksaw or a motorized cutting device designed to cut steel. When assembling components place on a non-abrasive surface (ie: shipping box) to avoid scratching. We recommend a 15'x15' area for unobstructed assembling. You should not need to use excessive force when assembling any components.

Planning & Preparing

Because this project is made to stand independent of your home, you can either locate it near your house or let it stand alone in the garden. By keeping it unattached from your home you will not have to deal with moving existing gutters or matching eave heights. If you plan to build your pergola close to the house, please keep the outer extremities of the pergola a minimum of 4 inches back from your eaves.

What looks like the toughest part of this project is actually the easiest, the graceful, solid-looking columns. We've designed these columns to simply be slipped over treated 4x4 wood posts that are either embedded in concrete or directly mounted to a concrete or wood surface using our bolt down brackets. See pages 7, 8 and 9 for more details.

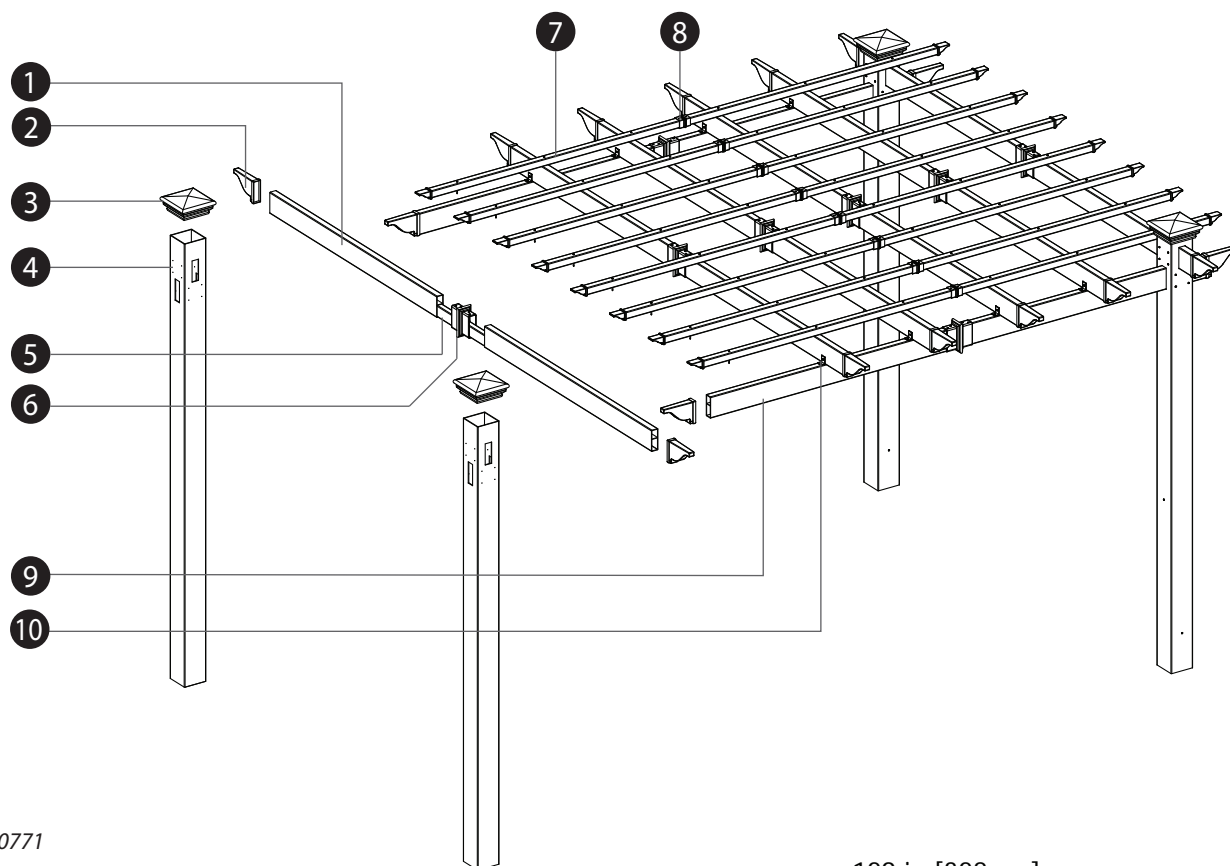
It is critical before you start that you consider the current slope of elevation where the pergola is planned - if there is any. Also utility or sprinkler line location is important to identify prior to excavating holes if necessary. You should also check to verify local building codes, ordinances, neighbourhood covenants, or height restrictions regarding this type of structure.

Restriction of Use

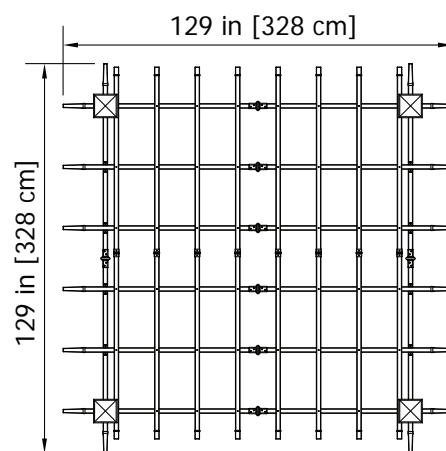
*This product **is not** designed to carry additional weight loads such as swings, people or other objects.*

Please take the time to read this instruction guide thoroughly prior to the construction of your pergola. If you have any questions, feel free to contact our technical dept

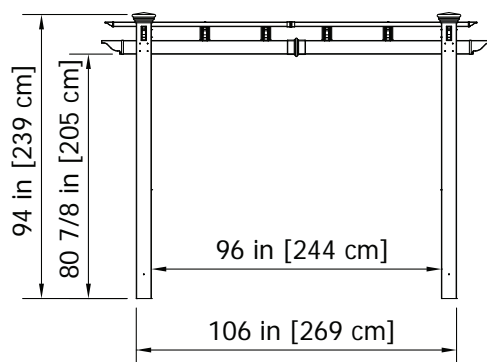
Pergola Materials Overview



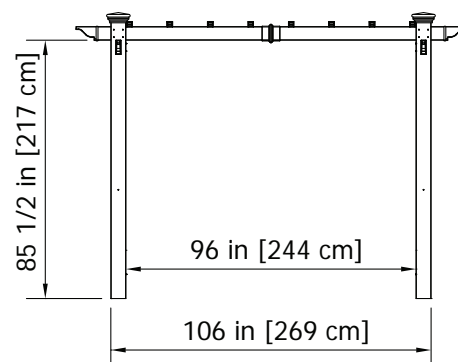
1. Rafters (12) - 10771
2. Rafter & Beam Decorative End Caps (16) - 10700-1
3. Post Caps (4) - 10699-1
4. Posts (4) - 10774
5. Steel Stiffener Inserts for Main Support Beams & Rafters
Main Support Beam Insert (2) - 10996; Rafter Insert (6) - 10772
6. Beam & Rafter Joiners (8) - 10707-1
7. Shade Slats Including Decorative End Caps (16) - Slat 10773, Cap 30030-1
8. Shade Slat Joiners (8) - 10600-1
9. Main Support Beams (4) - 10770
10. Rafter Brackets (8) - 10536



Top View



Front View



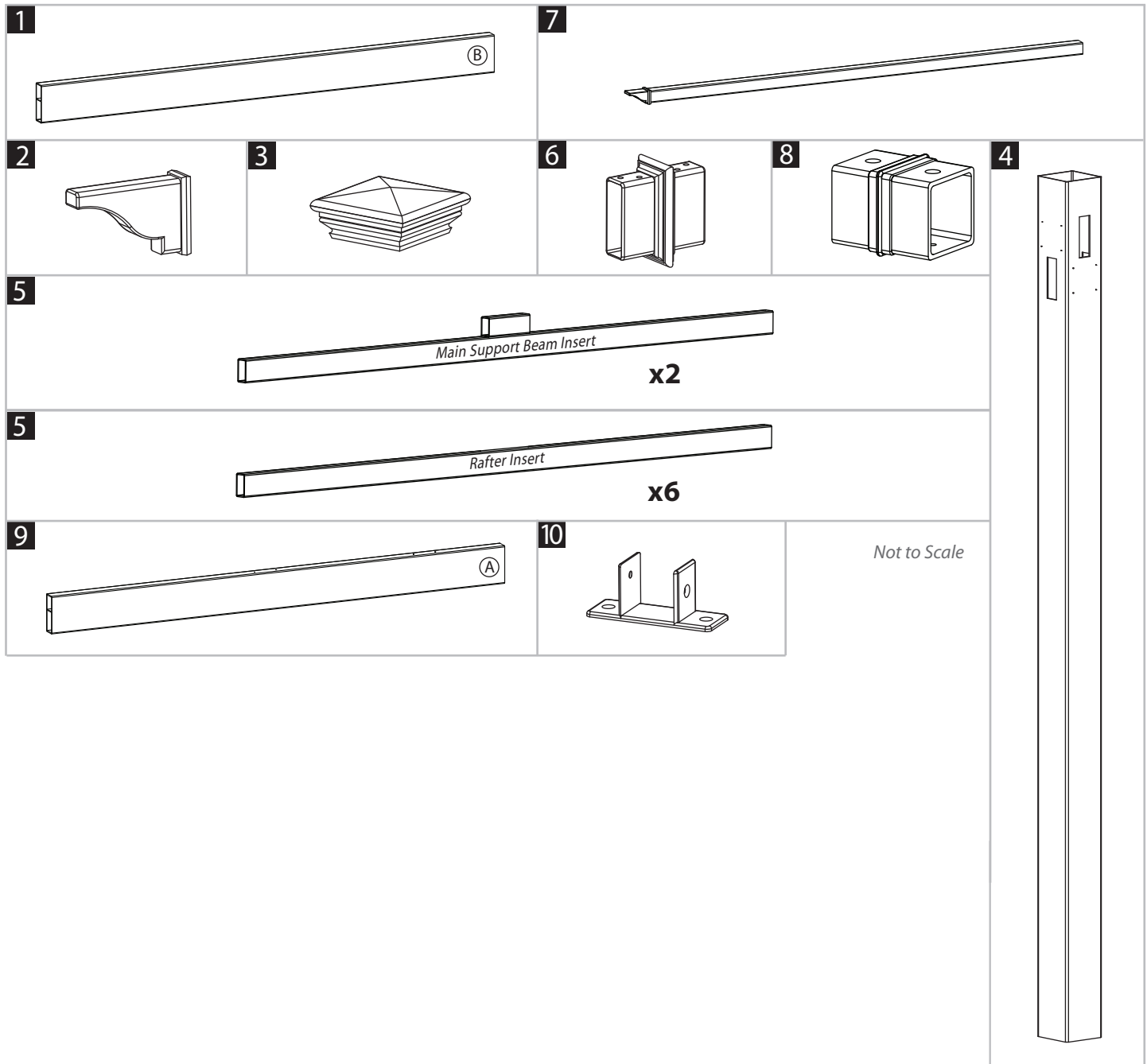
Side View

Pergola Materials Breakdown

Check Boxes (Total of 4) for These Contents

In the event of missing or defective parts please call our customer service

- | | |
|--|---|
| <ul style="list-style-type: none"> 1. Rafters (12) - 10771 2. Rafter & Beam Decorative End Caps (16) - 10700-1 3. Post Caps (4) - 10699-1 4. Posts (4) - 10774 5. Steel Stiffener Inserts for Main Support Beams & Rafters:
Main Support Beam Insert (2) - 10996; Rafter Insert (6) - 10772 6. Beam & Rafter Joiners (8) - 10707-1 | <ul style="list-style-type: none"> 7. Shade Slats Including End Caps (16) - Slat 10773, Cap 30030-1 8. Shade Slat Joiners (8) - 10600-1 9. Main Support Beams (4) - 10770 10. Rafter Brackets (8) - 10536 |
|--|---|



Pergola Additional Materials List

Hardware (in plastic bag)

All Screws Included with this Kit are Self-Auguring.

A. Vinyl Weld Glue (3) - 20000

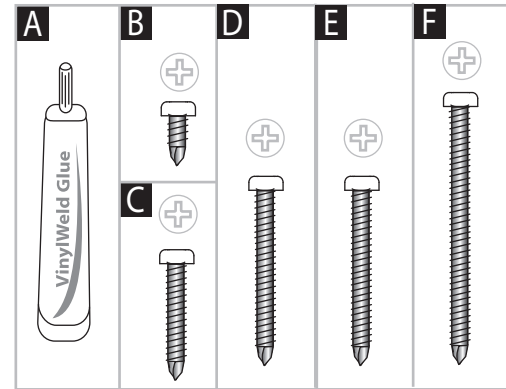
B. 5/8" [16mm] Stainless Steel Screws (32) - 20016 (for Rafter Brackets)

C. 1 1/2" [38mm] Stainless Steel Screws (48) - 20005 (for Main Beam Joiners with Steel Stiffener Inserts)

D. 2 1/2" [64 mm] Stainless Steel Screws (48) - 20009-1 (for Shade Slats)

E. 2 1/2" [64 mm] Stainless Steel Screws (16) - 20009-1 (to secure vinyl posts to internal wood posts)

F. 4" [102 mm] Stainless Steel Screws (64) - 20006 (for Posts and Rafter Joiners)



Extra Materials You will Need

If Mounting Pergola on Concrete or Wood Deck

G. 4x4x4' (10x10x122cm) Pressure-Treated Wood Posts (4) (purchase at local building center)

H. 4x4 Bolt Down Bracket Kit

Do not use the Bolt Down Bracket system for installing the pergola over concrete pavers, patio stones, or interlocking bricks.

Refer to bolt down bracket instructions for hardware requirements, as they pertain to your application:

If mounting pergola onto an existing concrete surface:

- 1/2" x 3 1/2" x 12" (1.3x9.x30.5cm) Wood Shims (32) - Can be cut from 1/2" (1.3cm) sheet of plywood
- 1/4" x 2 3/4" (6x70mm) Cement Screws - Countersunk Head (12)
- 3/16" (5mm) Concrete drill bit. Minimum 3" (76mm) long (1)

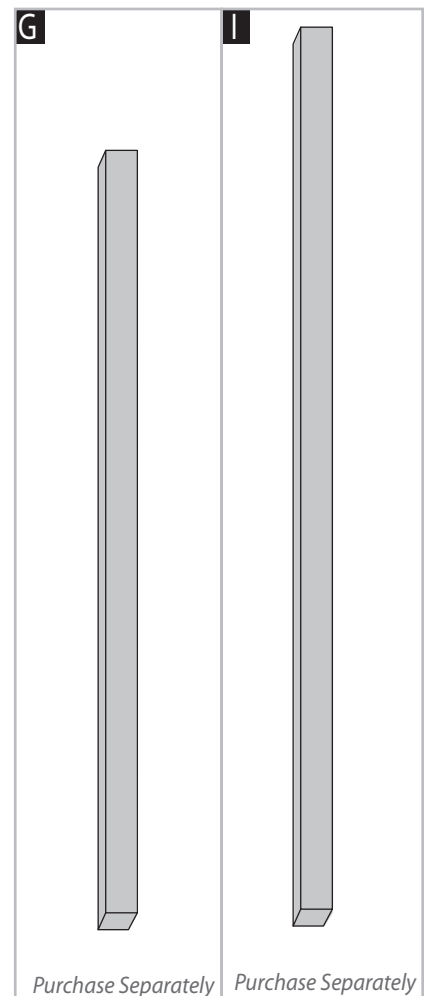
If mounting pergola onto a wooden/composite deck with AN ACCESSIBLE UNDERSIDE:

- 1/2" x 3 1/2" x 12" (1.3x9.x30.5cm) Wood Shims (32) - Can be cut from 1/2" (1.3cm) sheet of plywood
- 1/4" x 2" (6x7mm) Bolts and Nuts - Countersunk Head (12) (Length depends on blocking material)
- 1/4" (6mm) Washers (12)
- 1/4" (6mm) Wood drill bit. Minimum 3" (76mm) long (1)

If Mounting Pergola in Ground

I. 4x4x8' (10x10x244cm) Pressure-Treated Wood Posts (4) (Standard dimensions are 3.5"x3.5" (8.9x8.9cm))

J. Concrete Ready Mix (4) (purchase at local building center)

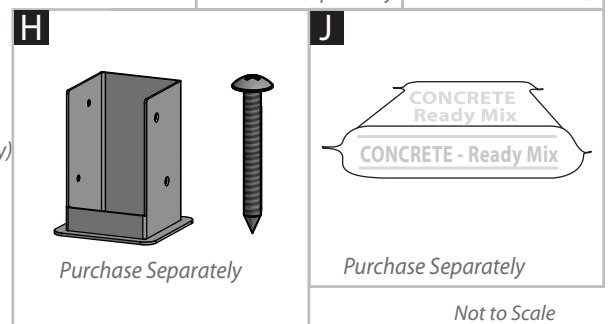


Tools You Will Need

- Level
- Hammer
- Tape Measure
- String Line
- Wood Stakes (4) (temporary support for string line)
- Step Ladders (2)
- Cordless Drill
- 1/8" x 2" (3x50mm) Drill Bit (2) (To pre-drill holes on bottom of Main Beam Joiners for screws to penetrate Steel Stiffener Inserts as necessary)

Tools You May Need

- Circular Saw with Fine Tooth Blade
- Framing Level
- Framing Square
- Hacksaw (or a motorized cutting device designed to cut steel)



Wood Post Layout & Installation for In-Ground Application

This pergola can also be installed on a pre-existing wood or concrete surface using our bolt down bracket system with a 4x4 wood post (sold separate). See page eight for more details.

Post location and placement is the most critical step in the overall installation process. Please double check for the possibility of any underground utilities such as sprinkler, gas or telephone lines.

STEP ONE

Measure and mark out the location of the pergola posts using string line and temporary wood stakes. Diagonal distances must be the same to ensure a square installation. Adjust string lines accordingly. The inside corner of the string lines will be the post location.

Please Note:

Should you decide to moderately modify the dimensions of your pergola from the standard kit size, a circular saw with a sharp fine-tooth blade is all that you need to cut, shorten or modify the vinyl components. The steel stiffeners for the main beam can be cut down using either a hacksaw or a motorized cutting device designed to cut steel.

STEP TWO

Install Wood Supporting Posts Directly into the Ground

1

After you have determined where the posts will be located, excavate 10" (25.4cm) diameter x 36" (91.4cm) deep post holes.

2

After holes are dug and cleaned, place the 4x4 (9x9cm) wood post into a hole ensuring it's level and square to string lines. The final post height should be 60" (152 cm) out of the ground.

3

Fill the vacant hole with pre-mixed concrete all the way to within 3" (7.6cm) of the top of the hole.

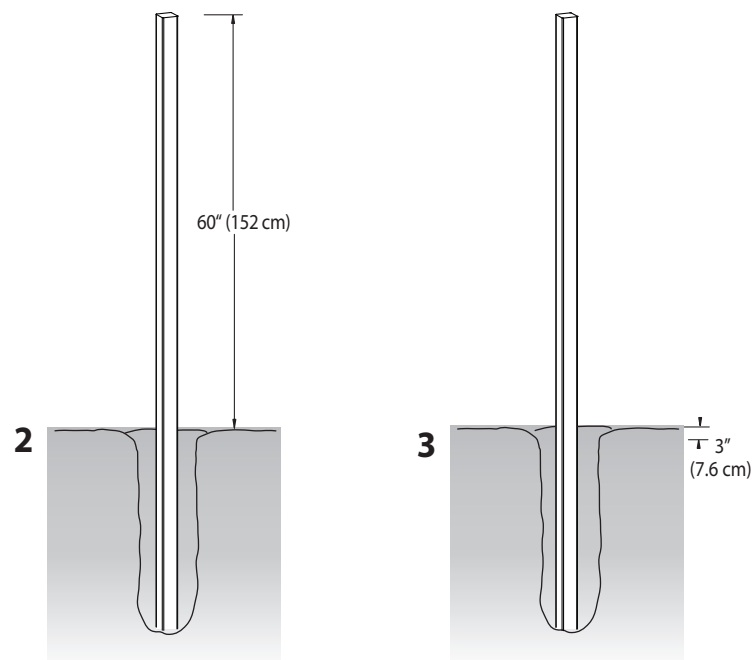
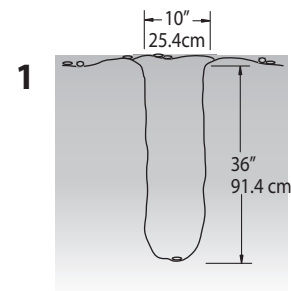
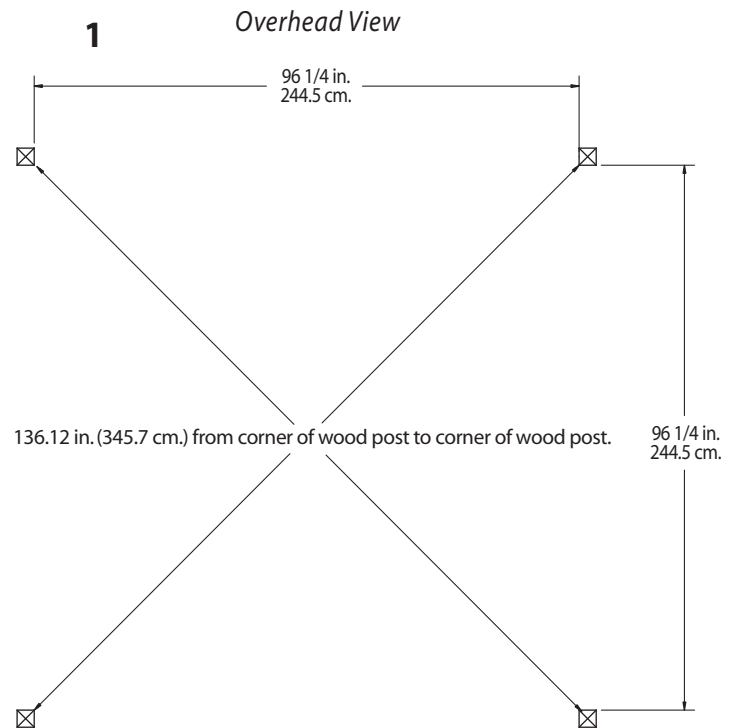
Once concrete has set, backfill 3" (7.6cm) space with soil.

4

Repeat for all four posts.

Please Note:

Typical 4x4 pressure treated posts are 3 1/2" x 3 1/2" (8.9x8.9cm) square but can be larger due to twisting or cracking. We have allowed a tolerance for this in the internal dimensions of the vinyl columns.



OPTIONAL STEP

Wood Post Layout & Installation Using Bolt Down Brackets for Concrete or Wood Surface

Note: for additional information on the bolt down bracket installation, refer to the bolt down bracket instructions.

1

Measuring from the base plates, measure and mark out the location of the bolt down brackets using string or chalk line. Diagonal distances must be the same to ensure a square installation. Adjust string lines accordingly. The inside corner of the string lines will be the bottom corner flange of the bolt down bracket.

2

Mark out the location of bolt down brackets accordingly using the base of the bracket accordingly.

3

Using a 3/16" masonry drill bit drill 3" deep holes to allow installation of 2 3/4" concrete screws.(Not included)

4

Proceed to install three 2 3/4" concrete screws into the bottom base of the bolt down bracket.(Not included)

Please Note:

Concrete patios generally have sloped surface for water run-off. If this is the case, when you secure the bolt down bracket to the concrete, the bracket may be at an angle. This can be corrected for level using galvanized steel washers (not provided), acting as shims underneath the base to level - **VERY IMPORTANT OR PERGOLA BEAMS AND RAFTERS WILL NOT BE LEVEL.**

5

With the four bolt down brackets installed plumb, proceed to set the 4x4x4' (10x10x122cm) wood post in place. Secure using the 1.5" (38mm) wood screws included in the kit. Repeat for all four posts.

6

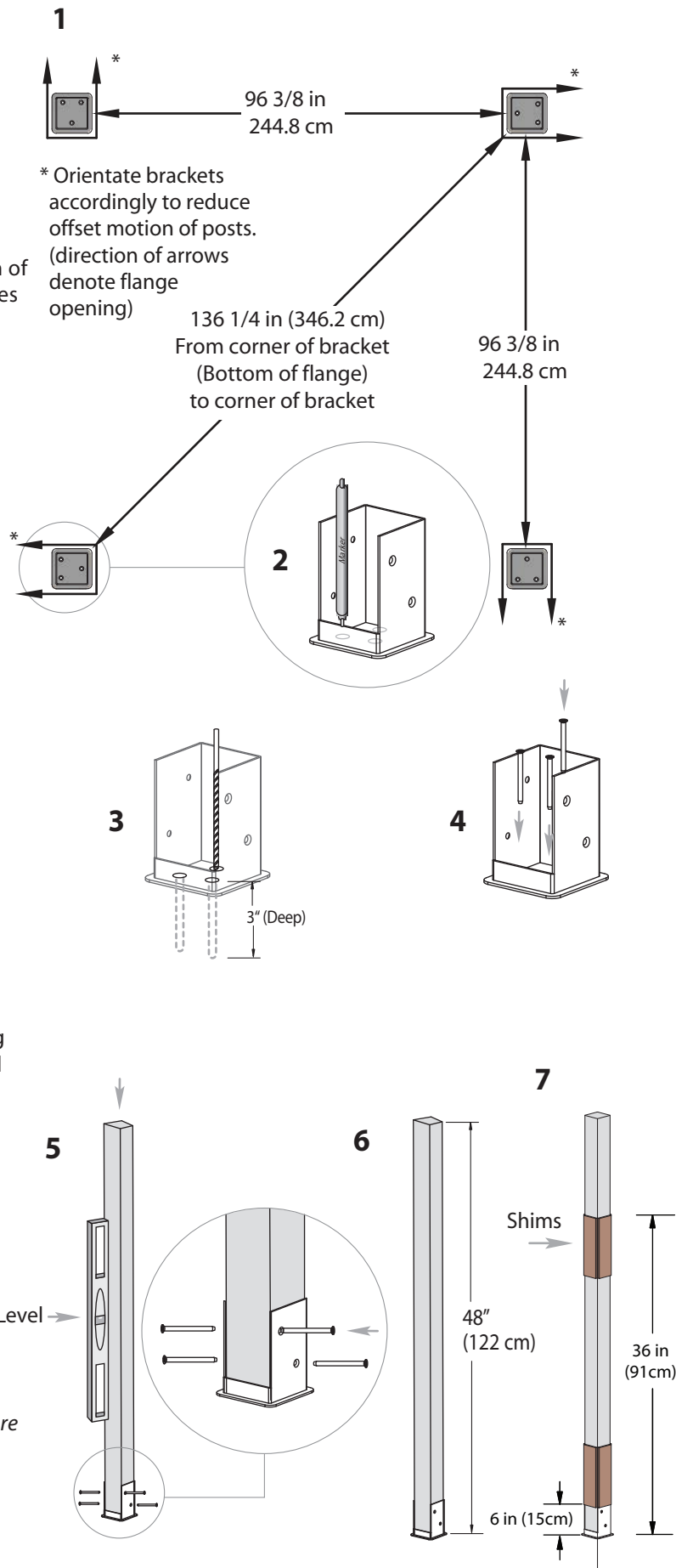
Posts should be 48" (122 cm) in height.

7

In order to create a snug fit between the wood posts and the inner cavity of the vinyl posts, it will be necessary to "build out" the 4x4 posts near the bottom and the top using 1/2" x 3 1/2" x 12" (1.3x9x30.5cm) shims. Follow instructions as illustrated.

Please Note:

Typical 4x4 pressure treated posts are 3 1/2" x 3 1/2" (8.9x8.9cm) square but can be larger due to twisting or cracking. We have allowed a tolerance for this in the internal dimensions of the vinyl columns



STEP THREE

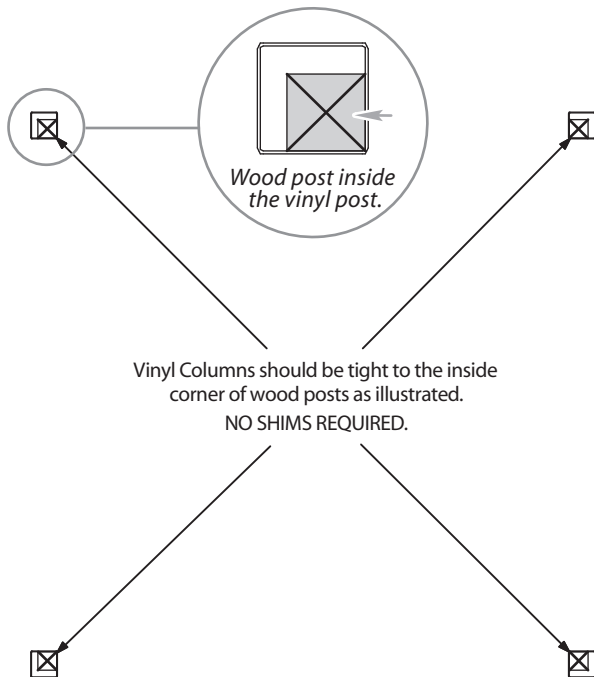
Vinyl Column Installation Over In Ground Wood Posts

1

Using a step ladder, guide the vinyl column over the top of the wood post down into position. **Ensure that holes at top of column are orientated correctly for future beam and rafter placement as per illustration.**

Please Note:

If you installed your wood posts directly into the ground, please proceed to position the vinyl column tight to the inside corner of the wood posts as illustrated below. NO SHIMS REQUIRED.

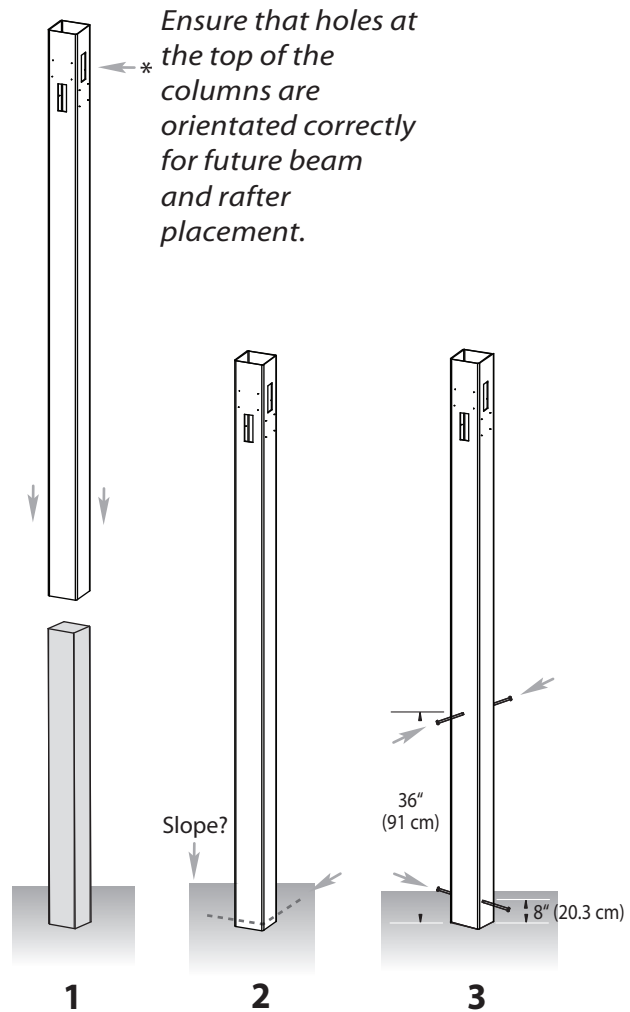


2

Finally, adjust post heights accordingly to ensure future level installation of beams and rafters as necessary. If slope is severe causing a height difference between the posts, you may need to trim down the bottom of two or more of your vinyl columns as necessary.

3

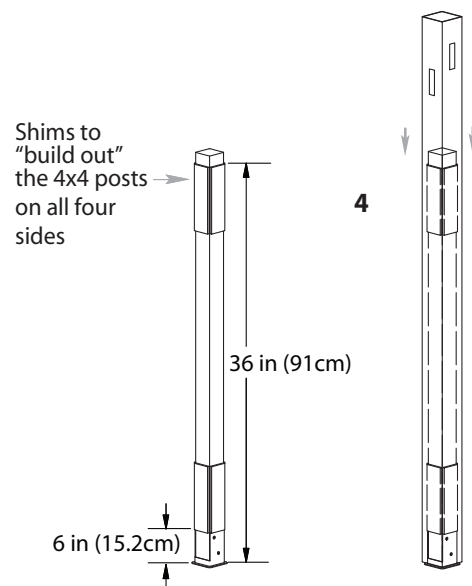
Secure the vinyl columns to the wood posts using 2 - 2 1/2" (64mm) screws at 8" (20.3 cm) up from the bottom (on 2 sides, and 2 more approximately 36" (91cm) high (on 2 sides).



Vinyl Column Installation Over Wood Posts with Bolt Down Brackets

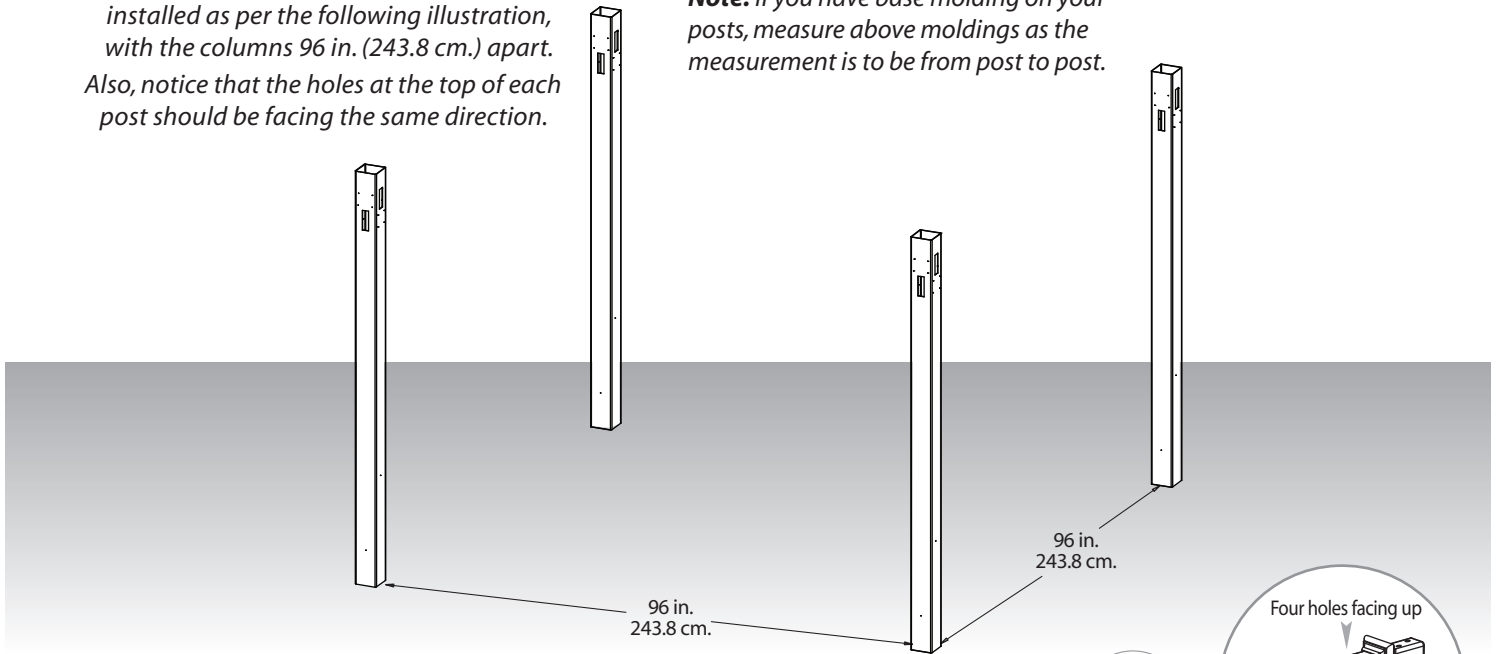
4

The process for posts installation over the bolt down bracket is identical as shown below.



At this stage, the columns should be properly installed as per the following illustration, with the columns 96 in. (243.8 cm.) apart. Also, notice that the holes at the top of each post should be facing the same direction.

Note: If you have base molding on your posts, measure above moldings as the measurement is to be from post to post.



STEP FOUR

Main Support Beam Assembly

1

Insert the end of the main support beam marked 'A' into a joiner. **Pre-drilled holes should be facing up.** Install the joiners so that the side with the four holes are facing up. Push firmly so the extrusion bottoms out inside the joiner.

2

Insert one steel stiffener (with steel block facing up), into the lower pocket of the main support beam. Push until steel block hits the internal ribbing

3

Slide the other end of vinyl beam marked 'A' (with pre-drilled holes facing up) over the steel insert and into the joiner to create one full main support beam.

4

Using 1 1/2" (38mm) screws, fasten the joiner to main support beams and steel insert. The bottom and top holes will need to be pre-drilled (use drill bit provided).

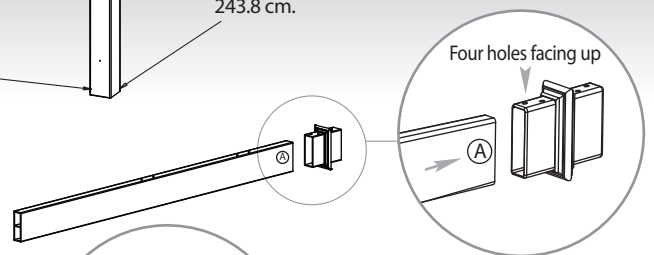
5

Repeat for other main support beam.

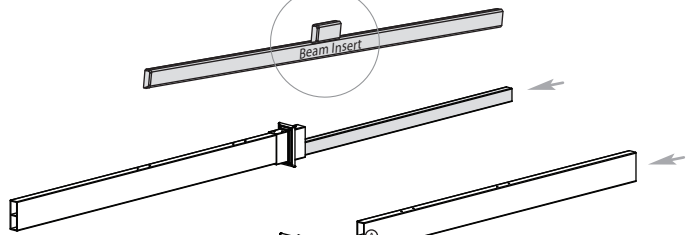
6

Using 5/8" (16mm) screws, install the rafter brackets to the main support beams. Follow the pre-drilled holes to identify locations.

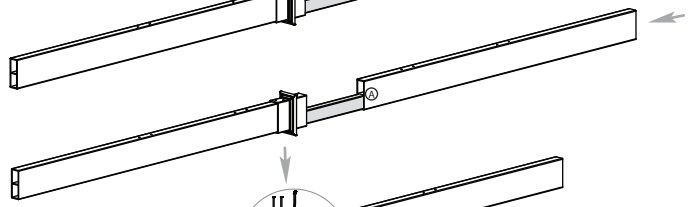
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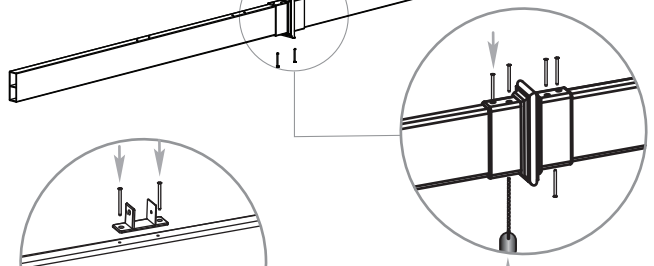
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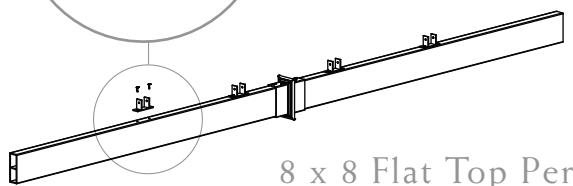
3



4



6



Pre-drill holes on bottom and top to accommodate for internal steel stiffener.

8 x 8 Flat Top Pergola

STEP FIVE

Rafter Assembly

1

Insert the end of the rafter marked 'B' into a joiner. Install the joiners so that the side with the four holes are facing up. Push firmly so the extrusion bottoms out inside the joiner.

2

Insert one steel stiffener into the lower pocket of the rafter. Push steel stiffener until it's positioned half way inside the rafter.

3

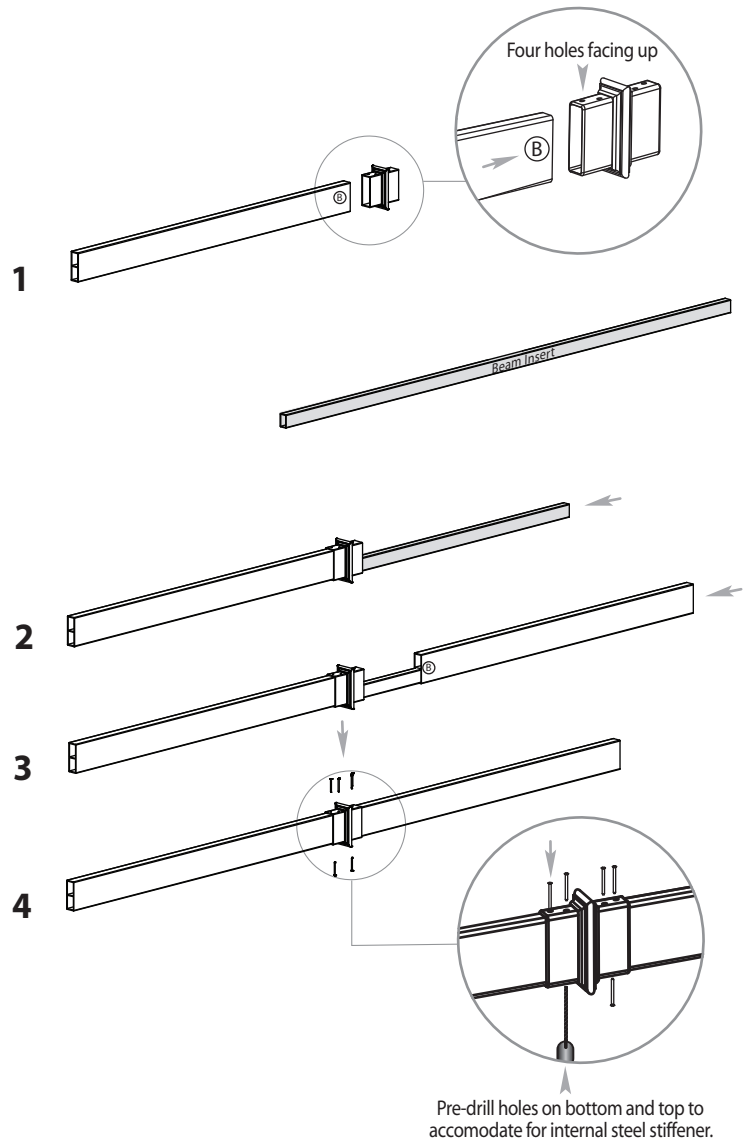
Slide the other end of rafter marked 'B' over the steel insert and into the joiner to create one full beam.

4

Looking through both of the open ends of the rafter, ensure the steel stiffener is centered within the rafter. **Using 1-1/2" (38mm) screws**, fasten the joiner to vinyl rafters and steel insert. The bottom holes will need to be pre-drilled using a 1/8" (3mm) drill bit (not provided).

5

Repeat for other rafters.



STEP SIX

Main Support Beams & Rafter Placement

Using a helper and two ladders proceed to complete the following steps:

1

Slide the main support beam with rafter brackets pre-installed through both holes of the vinyl column (overshooting), and then back through both holes of the opposite column. Repeat for opposite beam.

Please Note:

The top of the vinyl columns may need to be tensioned in opposite directions to each other to allow the beams and rafters to be installed on a slight angle. The vinyl columns naturally allow some measure of flex.

2

Slide the two outer rafters through both holes of the vinyl column (overshooting) and then back through both holes of the opposite column.

3

Adjust the position of the main support beams and rafters so the overhang past the vinyl columns is equal to the eye. Using 4" (102mm) screws, lock the main support beams and rafters into position inside the vinyl columns by driving in 8 screws from the outside and 8 screws from the inside of each column.

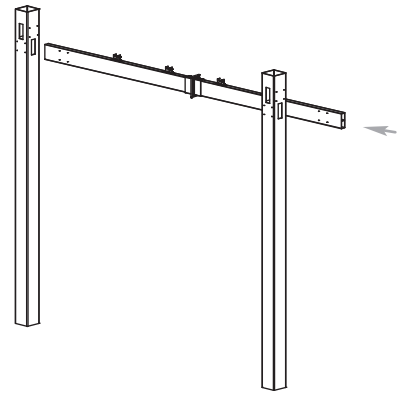
4

Place the remaining rafters in the front and rear rafter brackets.

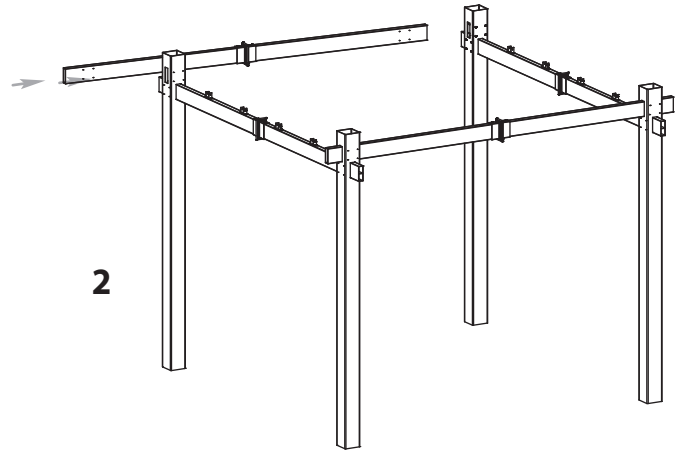
5

Complete a final adjustment of the remaining rafters. All overhang should appear equal to the eye.

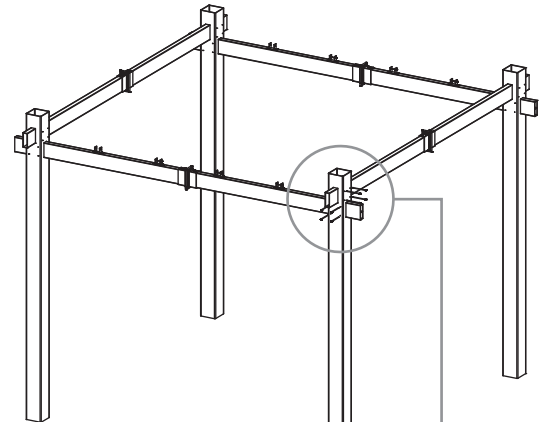
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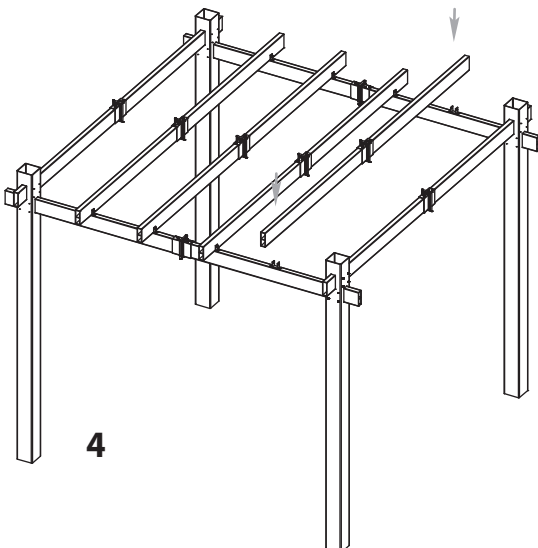
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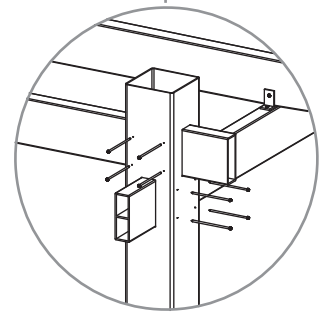
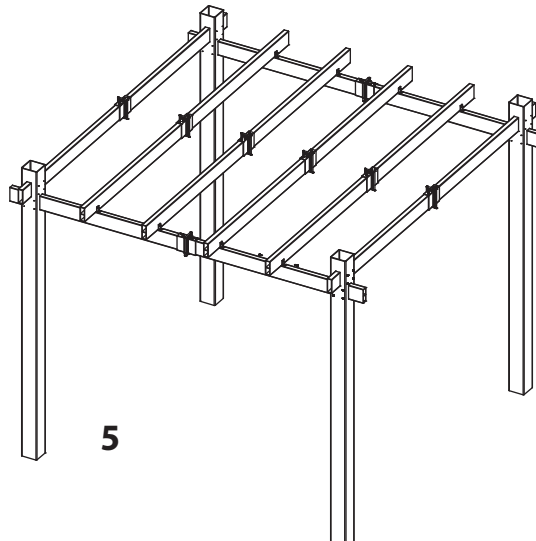
3



4



5



STEP SEVEN

Fastening Rafters & Caps

1

Using 5/8" (16mm) self-auguring stainless steel screws attach the pergola rafters to the rafter brackets.

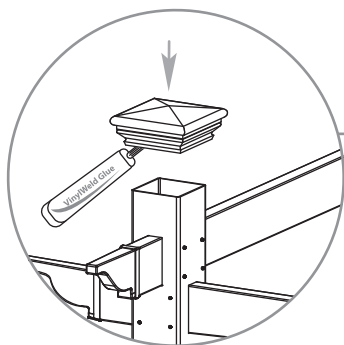
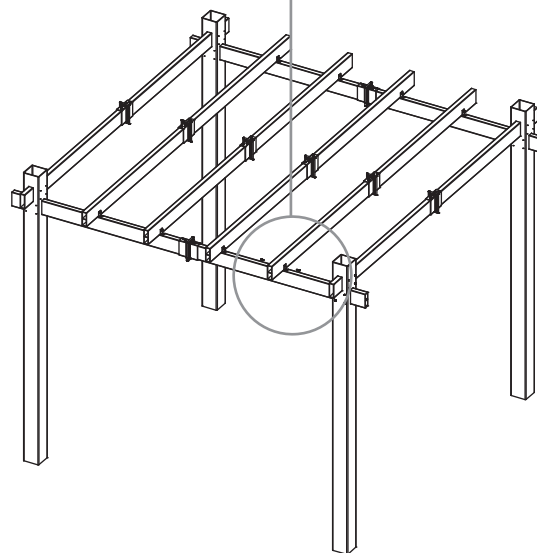
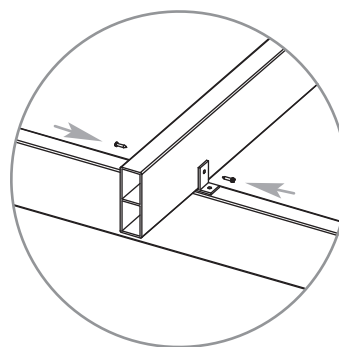
2

Install the post caps using vinyl weld.

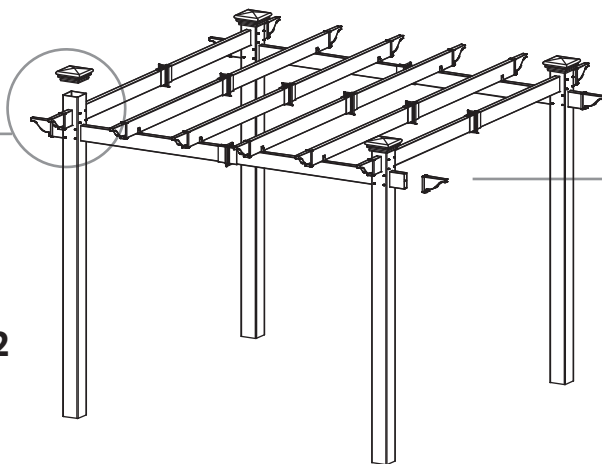
3

Install decorative pergola end caps using vinyl weld.

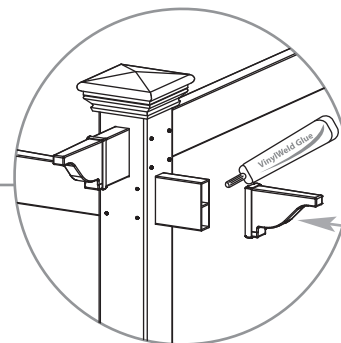
1



2



3



STEP EIGHT

Shade Slat Assembly

1

Assemble shade slats by first gluing the decorative end cap as shown, and then inserting the two slats into one joiner. Push firmly until extrusion bottoms out inside joiner. **No screws are necessary in the joiners.**

Shade Slats Installation

Shade slats are designed to extend approximately 8 1/4" (21.3cm) past the last rafter. Measurement includes the pre-installed pergola end caps. Your goal is to ensure that all the shade slats overhang equally to the eye.

2

Install first shade slat adjacent to the top of the vinyl columns.

3

Install the rest of the shade slats at 11 1/2" (29.2 cm) spacing.

4

Install one 2 1/2" (64mm) screw at each intersection of rafter and shade slat.

Suggestions for Additional Shade as Necessary

- White resin lattice in variety of shapes and sizes are available at your local lumberyard. Cut to size and fasten directly to the top of shade slats using stainless steel screws.
- In areas of extreme snow or wind load, do not use tight diamond privacy lattice.

