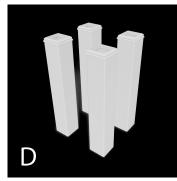
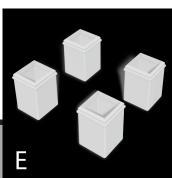


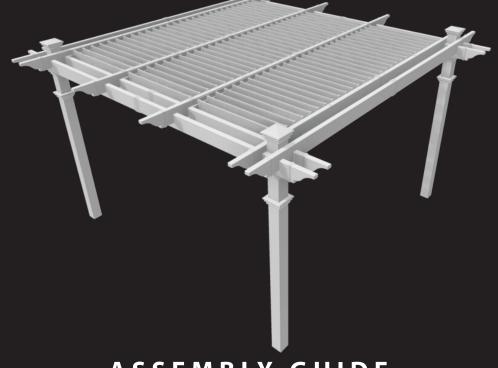
B







12x12 Flat Top Louvered Pergola



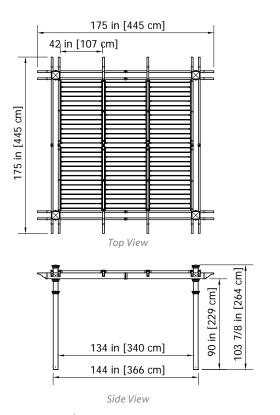
ASSEMBLY GUIDE

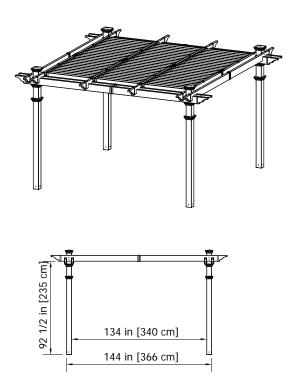
OPTIONAL ACCE SSORIES

- A) Bolt Down Bracket Kit (4 for Pergola)
- B) Pergola Wall
- C) Pergola Planter
- D) Tall Base Molding
- E) Short Base Molding

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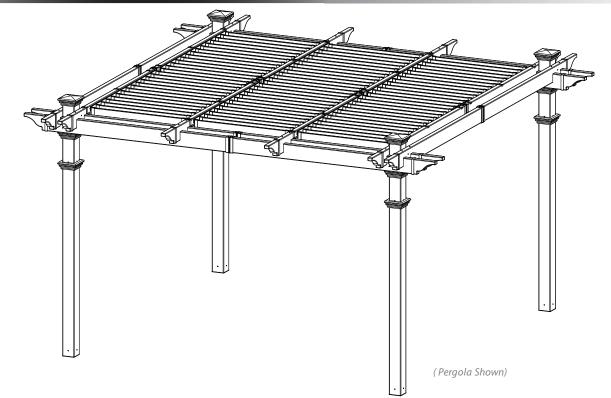




Front View

12 x 12 Flat Top Louvered Pergola

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. When assembling components place on a non-abrasive surface (ie: shipping box) to avoid scratching. We recommend a 15' x 15' area for unobstructed assembling. You should not need to use excessive force when assembling any components.

Planning & Preparing

The Pergola is made to stand independent of your home and 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.

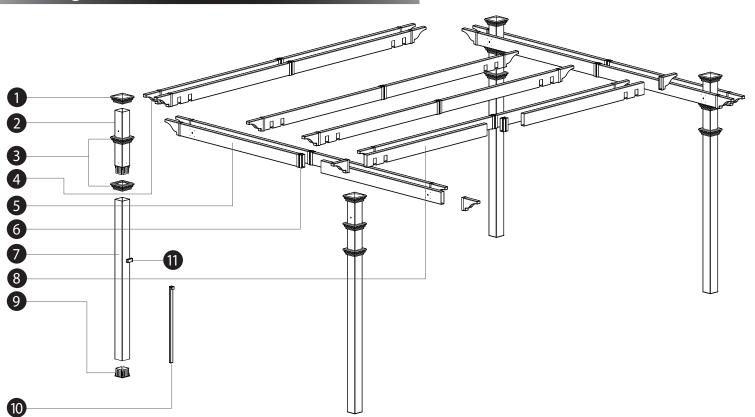
It is critical before you start that you consider the current slope of elevation where the pergola is planned - if there is any. Also utility or sprinkler line location is important to identify prior to excavating holes if necessary. You should also check to verify local building codes, ordinances, neighbourhood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

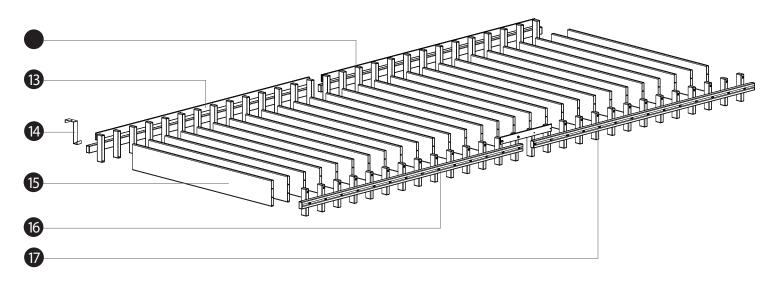
Please take the time to read this instruction guide thoroughly prior to the construction of your pergola. If you have any questions, feel free to contact us.

Pergola Materials Overview



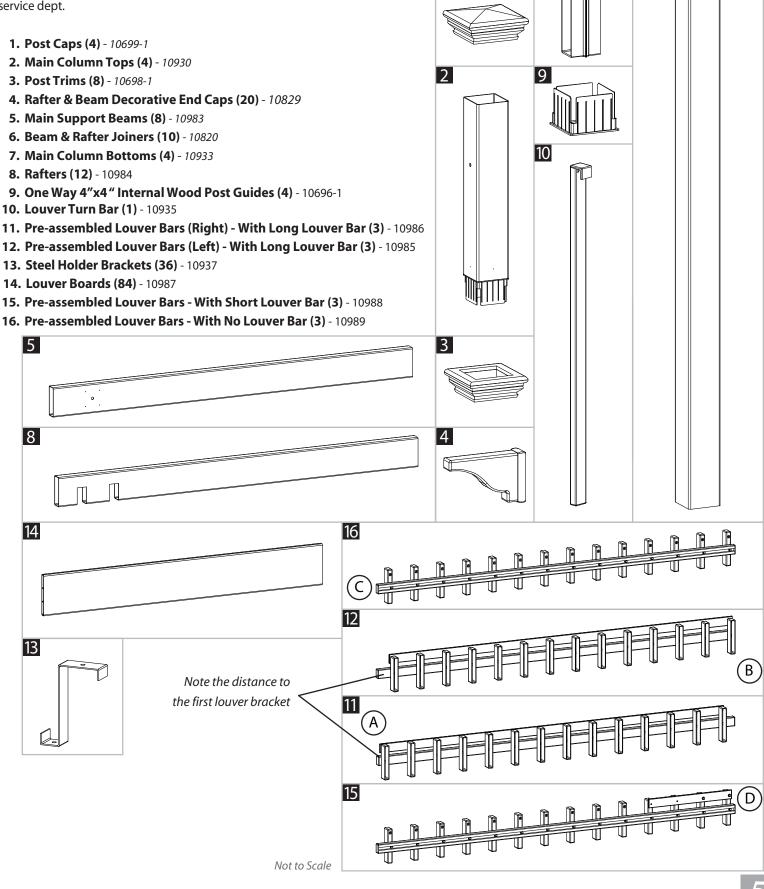
- 1. Post Caps (4) 10699-1
- 2. Main Column Tops (4) 10930
- 3. Post Trims (8) 10698-1
- 4. Rafter & Beam Decorative End Caps (20) 10829
- 5. Main Support Beams (8) 10983
- 6. Beam & Rafter Joiners (10) 10820
- 7. Main Column Bottoms (4) 10933
- 8. Rafters (12) 10984
- 9. One Way 4"x4" Internal Wood Post Guides (4) 10696-1
- 10. Louver Turn Bar (1) 10935

- 11. Turn Bar Holder (1) 10957 Found in Box 7
- 12. Pre-assembled Louver Bars (Right) With Long Louver Bar (3) 10986
- 13. Pre-assembled Louver Bars (Left) With Long Louver Bar (3) 10985
- 14. Steel Holder Brackets (36) 10937
- **15. Louver Boards (84)** 10987
- 16. Pre-assembled Louver Bars With Short Louver Bar (3) 10988
- 17. Pre-assembled Louver Bars With No Louver Bar (3) 10989



Check Boxes (Total of 7) for These Contents

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

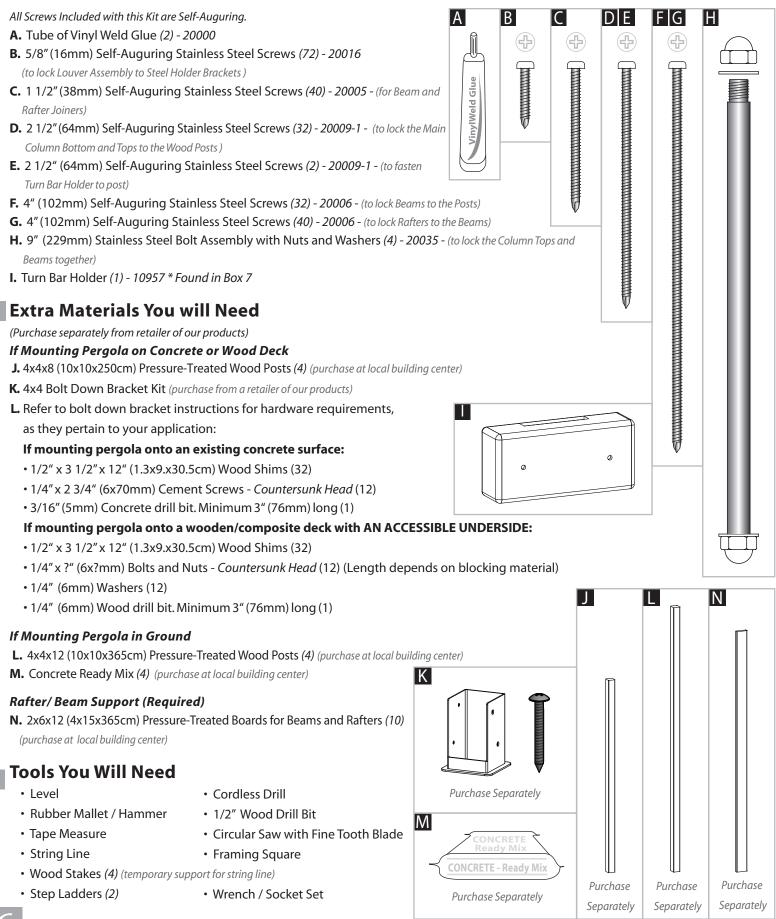


1

7

Pergola Additional Materials List

Hardware (in plastic bag)



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.

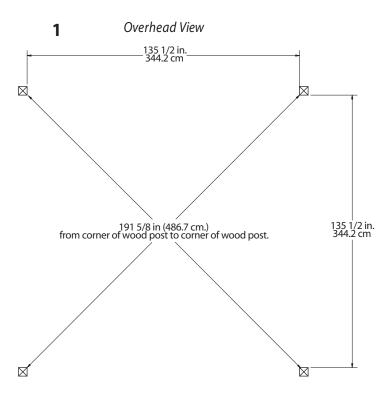
Post location and placement is the most critical step in the overall installation process. Please double check for the possibility of any underground utilities such as sprinkler, gas or telephone lines.

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.



STEP TWO

Install Wood Supporting Posts Directly into the Ground

1

After you have determined where the posts will be located, excavate 10" (25.4 cm) diameter x 36" (91.4 cm) 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 102" (259 cm)out of the ground.

3

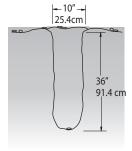
Fill the vacant hole with pre-mixed concrete all the way to within 3"(7.6cm) of the top of the hole. Once concrete has set, backfill 3"(7.6cm) space with soil.

4

Repeat for all four posts.

Please Note:

Some 4x4 pressure treated posts can be larger than 3 1/2 x 3 1/2 square due to twisting or cracking. We have allowed a tolerance for this in the internal one way and two way 4x4 wood post guides (see page 8). However in extreme cases you may need to shave down the top of the 4x4 wood post slightly to get the vinyl post started over the wood post. Before installing your wood posts in the ground, please check to confirm this and correct at this stage if necessary.

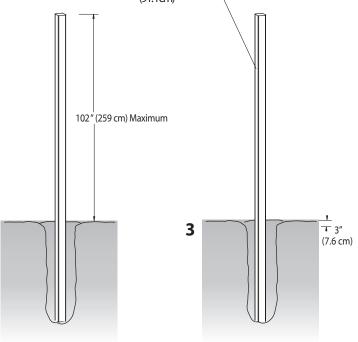


2

Note:

Shown is a 11'-6" (350cm) length of wood, and since the 4x4 (9x9cm) Pressure Treated wood comes in 12' (365 cm) lengths, do one of the following:

a. Cut the wood down to 11'-6" (350 cm) b. Dig 42" (107 cm) deep holes instead of 36" (91.4cm)



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 dow bracket instructions.

1

Measure and mark out the location of the bolt down brackets' bottom of flange 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 corner of the bottom flange.

2

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

3

Using a 3/16" (5mm) masonry drill bit, drill 3" (76 mm) deep holes to allow installation of 2 3/4" (70 mm) concrete screws. (Not included)

4

Proceed to install three 2 3/4" (70mm) 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

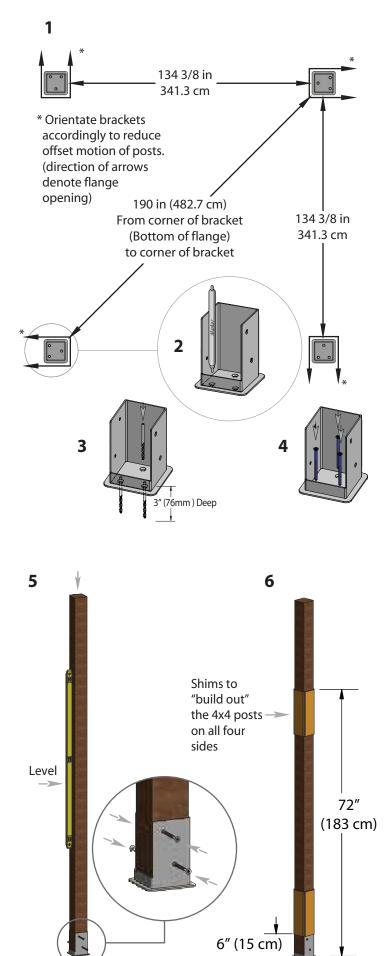
With the four post brackets installed plumb, proceed to set the 4x4x8' (10x10x250cm) wood post in place. Secure using the wood screws included in the kit.Repeat for all 4 posts.

Please Note:

Some 4x4 pressure treated wood posts can be larger than 3 1/2 x 3 1/2 square due to twisting or cracking. We have allowed a tolerance for this in the post brackets and the internal one way and two way 4x4 wood post guides. However in extreme cases, you may need to shave down the end of your 4x4 wood post slightly to allow access.

6

In order to create a snug fit between the wood posts and the inner cavity of the vinyl posts, it will be necesary to "build out" the 4x4 posts near the bottom and the top using 1/2" x 3 1/2" x 12" (13x90x305mm) shims. Follow instructions as illustrated.



STEP THREE

Vinyl Column Assembly & Installation Over Wood Posts

Using the vinyl weld glue, insert the One Way 4"x4" Internal Wood Post Guide in the one end of the main column posts. This step is only applicable if your wood 4x4 post are embedded into the ground. If your pergola is going to be installed on wood or concrete surface, please dispose of these four pieces.

2

Using a step ladder, guide the bottom vinyl columns over the wood 4x4 posts.

3

Using a step ladder guide the top vinyl columns over the wood 4x4 posts.

Please Note:

Ensure that predrilled holes at top of column are orientated correctly for future beam and rafter placement. See diagram at top of next page.

3a - If you also purchased base moldings (sold separately), they should be inserted at this stage.

4

Connect the bottom and top vinyl column by using vinyl weld and sliding together. *Please Note:* Vinyl Weld Glue has about a sixty second cure time and about a 20 minute dry time.

5

Slide the top and bottom post trim into position. Use the bottom post trim to cover the joint on the column. Slide the top post trim into approximate position $\pm 3''$ (76 mm)below the hole in the top vinyl column assembly.

6

If required, 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.

7

Secure the vinyl columns to the wood posts using $4 - 2 \frac{1}{2}$ (64 mm) self-auguring stainless steel screws at 8" (20.3 cm) up from the base of the posts, and $4 - 2 \frac{1}{2}$ " (64 mm) self-auguring stainless steel screws just above the trim cap as illusrated. This will prevent possible uplift during high winds, etc.

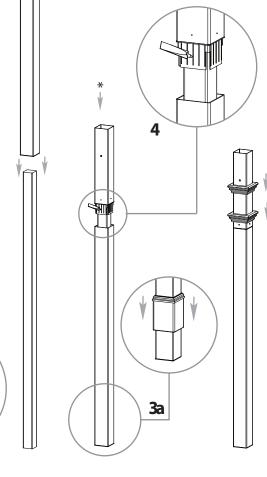
7a

If base moldings are installed, place screws above the base moldings.

8

Using the predrilled hole as a template, drive a 1/2" (13mm) hole through the wood post. Make sure to drill straight through to the hole on the opposite side of the post.

*Ensure that predrilled holes at top of column are orientated correctly for future beam and rafter placement.

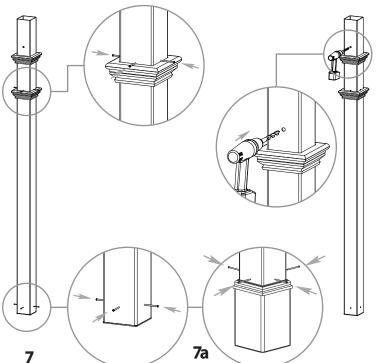


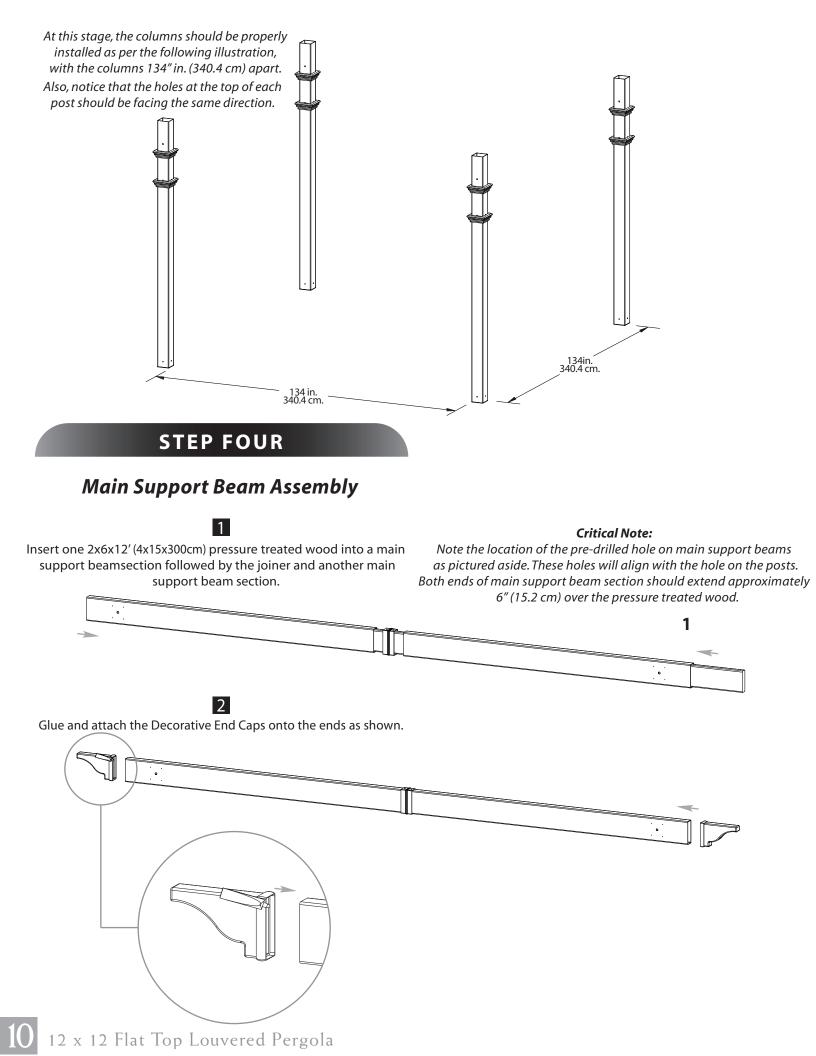
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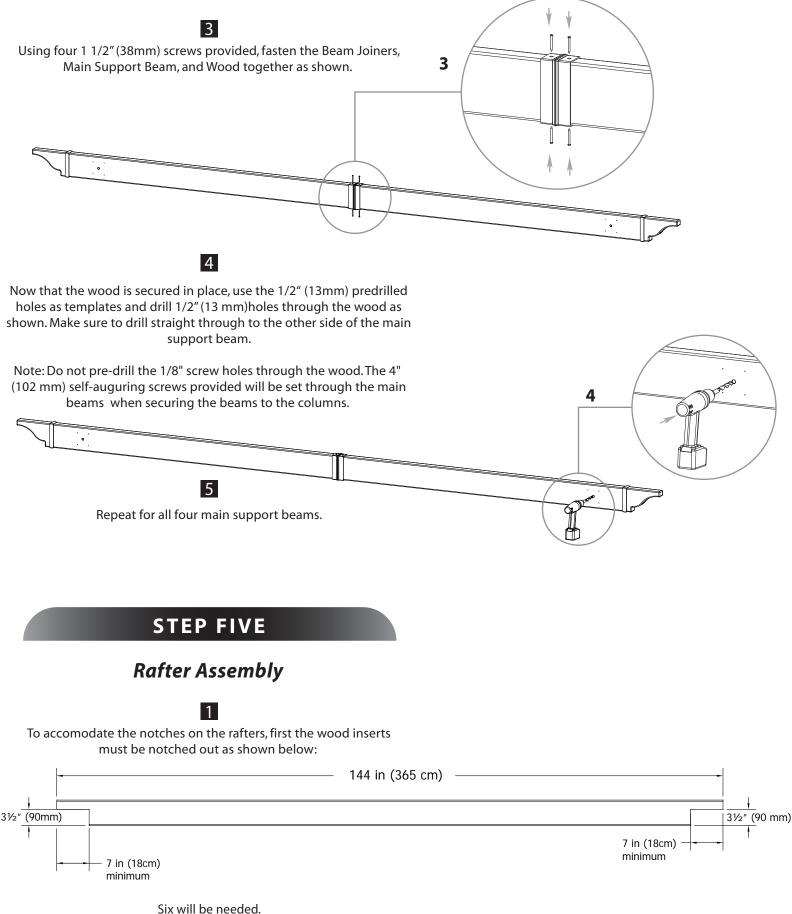
¥6

3





Main Support Beam Assembly

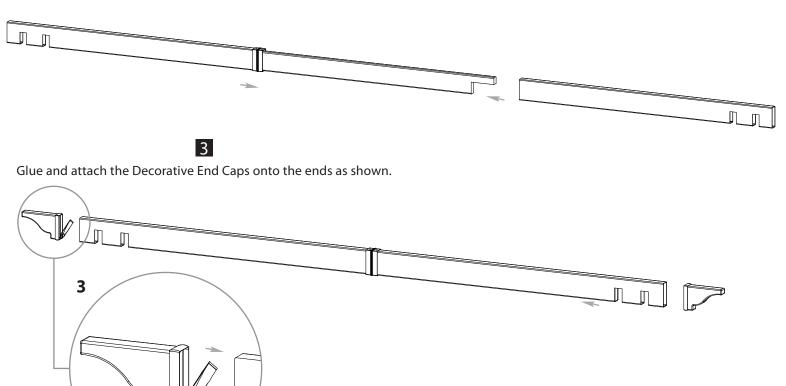


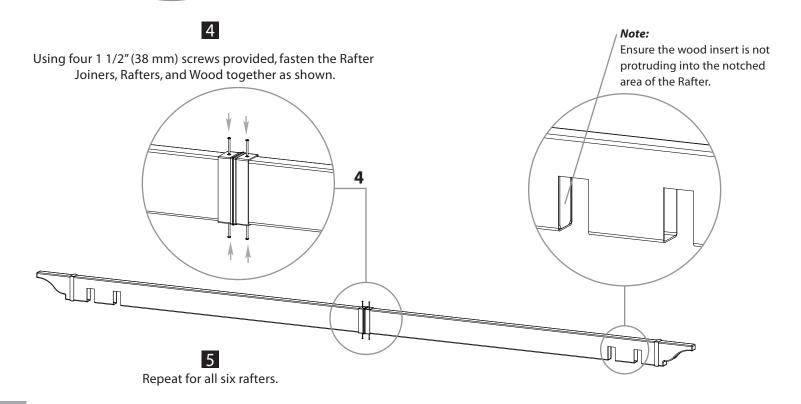
12 x 12 Flat Top Louvered Pergola

Rafter Assembly



Insert one of the notched 2x6x12 (4x15x300cm) pressure treated wood into a beam section follow by the joiner and another beam section. Make sure the notch is at the bottom as shown.





STEP SIX

Main Support Beams & Rafter Placement 1

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



Raise one Main Support Beam Assembly at a time and insert the 9" Bolt Assembly into the holes to hold into place as shown. Some force may be required to get the bolt through. Do not tighten the nuts until all four beams are in place, instead, simply hand-tighten them.

Note: The 9" Bolt Assembly is used to properly position the main beams on the columns.

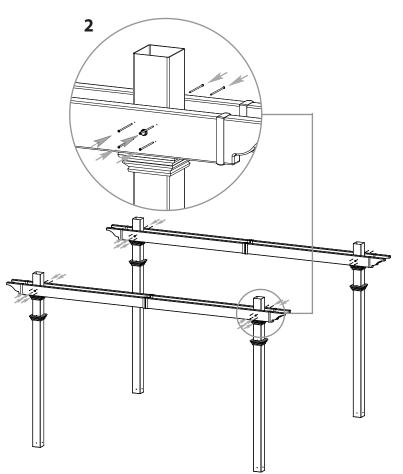
Once all four main support beams are in position, use two wrenches to tighten the nuts. Stop once the bolts bottom out inside the nuts. Over-tightening the nuts could cause damage to the bolts.

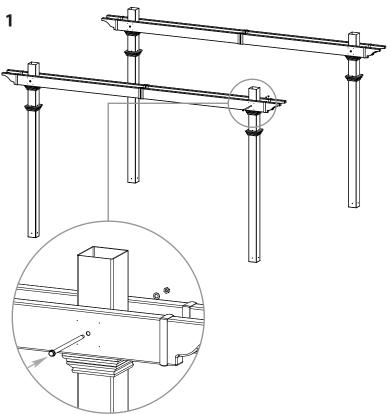
2

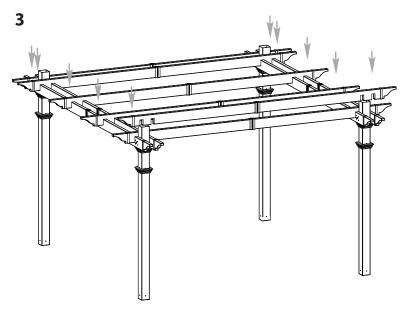
Fasten the main support beams onto the Posts using the 4" (102mm) screws provided (8 screws per post) through the pre-drilled holes.

3

Place the rafters onto the main support beams as shown. Space the middle two rafters 42" (106.7 cm) apart (Critical for louver placement)







Main Support Beams & Rafter Placement

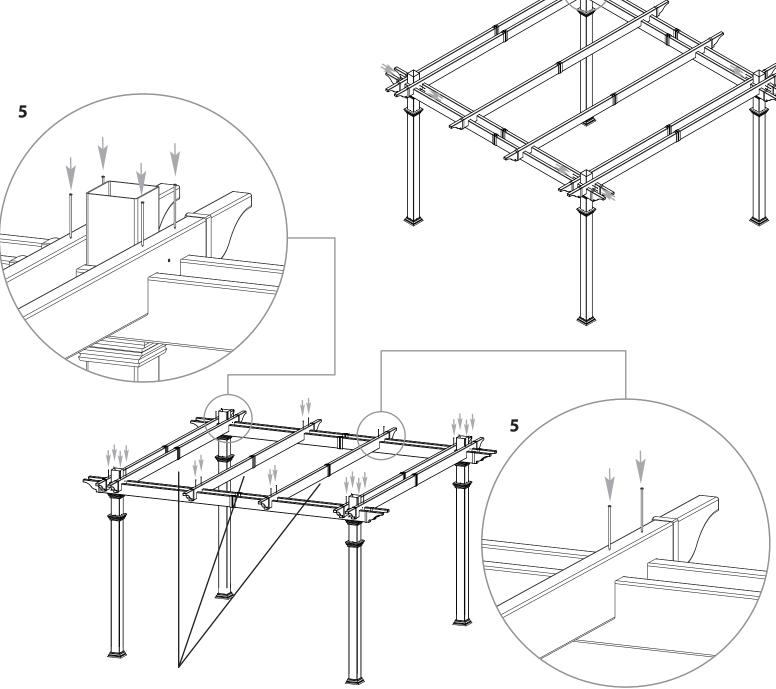


Fasten the Rafters to the Posts using the 4" (102 mm) screws provided (4 per post).

5

Note: The spacing between the rafters should be 42" (106.7 cm) as shown below. Fasten a 4" (102 mm) screw at each intersection where the

Beams and Rafters intersect as shown. 24 screws will be needed.



Δ

*Important: Make sure the distances between rafters are 42" (106.7 cm).

STEP SEVEN

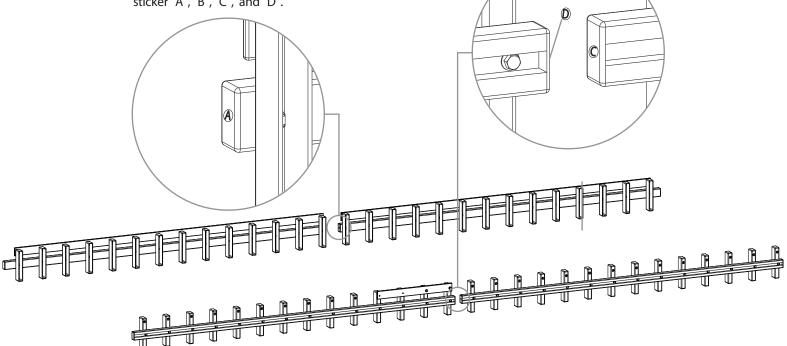
Louver Assembly

1

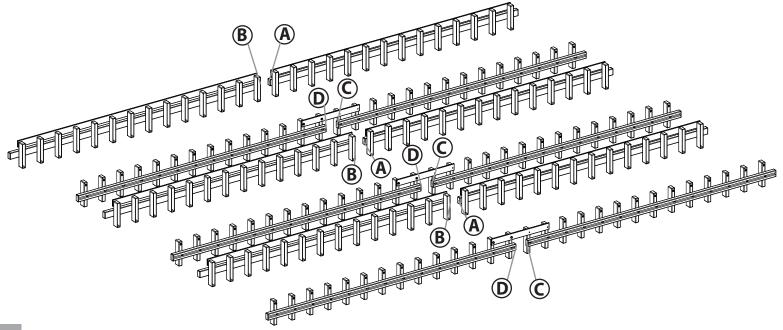
This kit contains four different pre-assembled Louver Bars;

Pre-assembled Louver Bars (Right) - With Long Louver Bar (3) - 10986 Pre-assembled Louver Bars (Left) - With Long Louver Bar (3) - 10985 Pre-assembled Louver Bars - With Short Louver Bar (3) - 10988 Pre-assembled Louver Bars - With No Louver Bar (3) - 10989

Each pre-assembled louver bars are labelled with a lettered sticker "A", "B", "C", and "D".



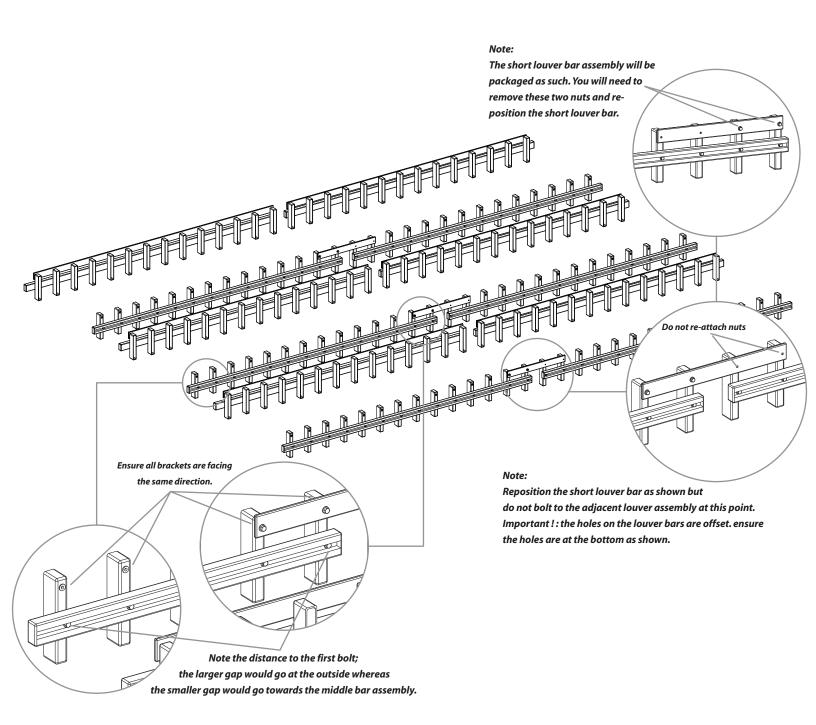
When assembling, match louver bar A with B, and C with D. There will be 3 A's, 3 B's, 3 C's, and 3 D's as shown below:



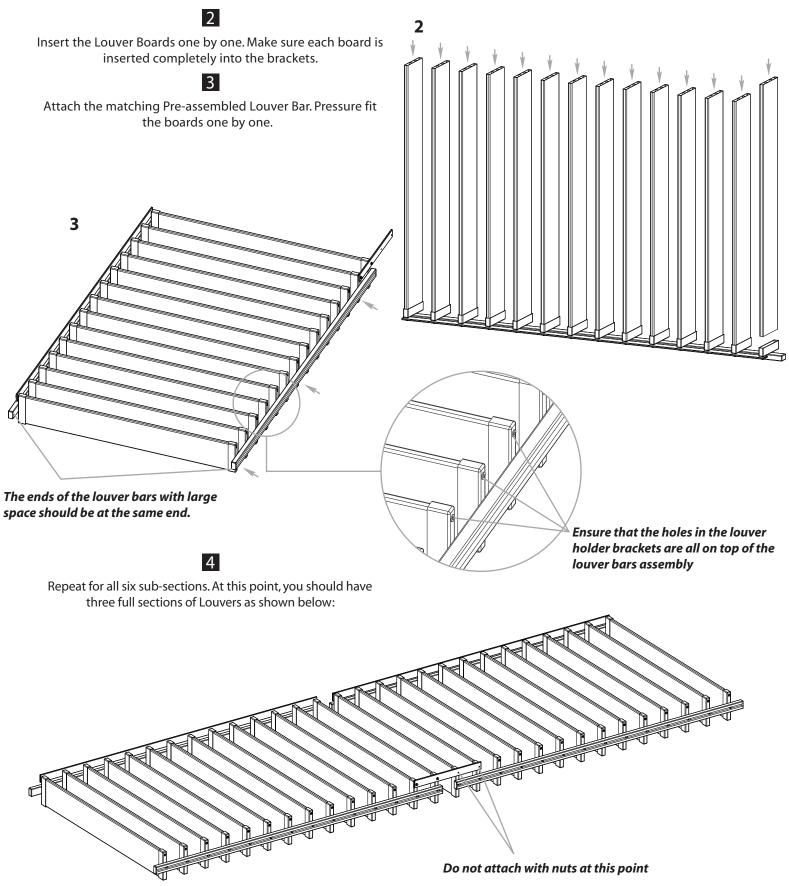
STEP SEVEN

Louver Assembly

layout the twelve louver bars assemblies as shown below:



Louver Assembly

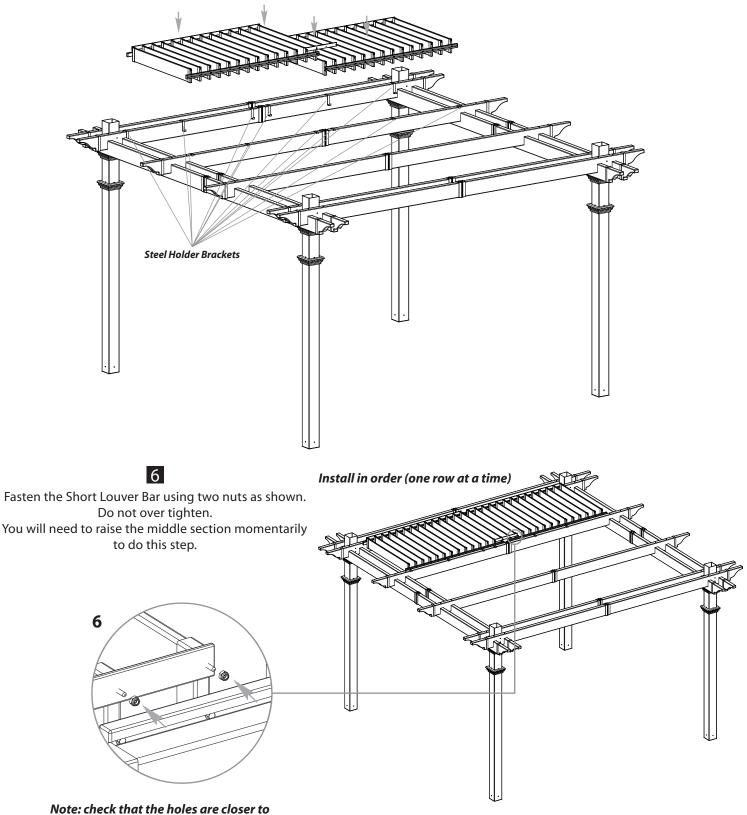




Louver Assembly

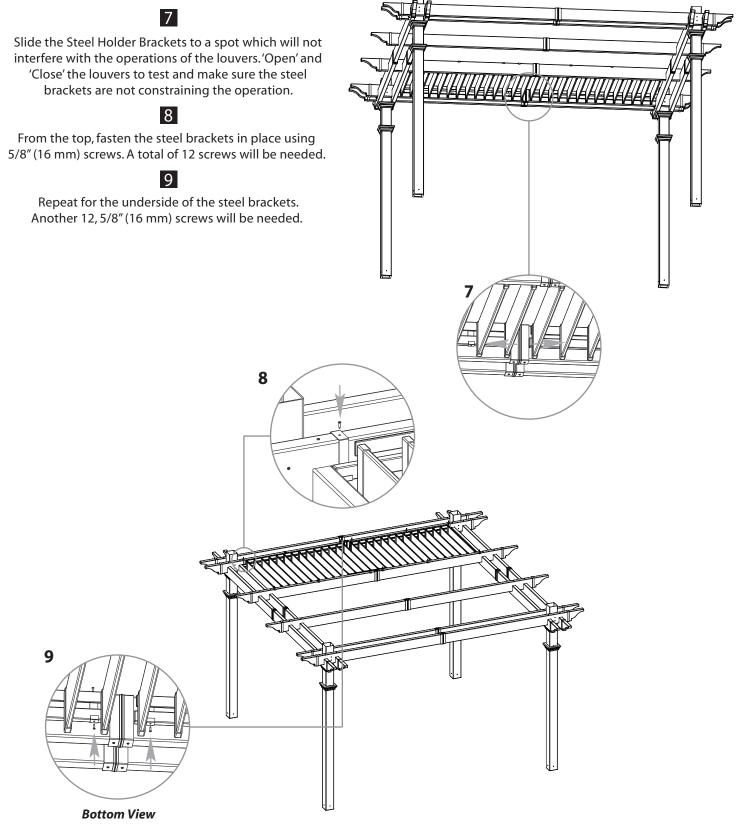
5

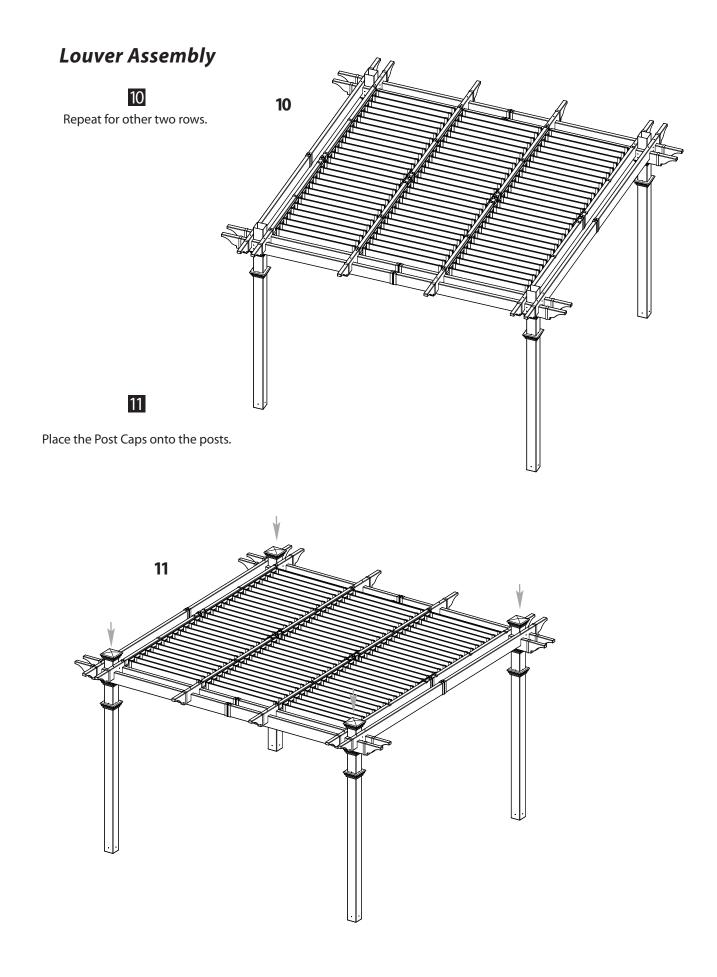
Place twelve Steel Holder Brackets as shown below and carefully lower the Louver assembly onto the steel brackets. Do not screw the Steel Holder Brackets in place at this point.



Note: check that the holes are closer to the bottom as shown.

Louver Assembly





STEP EIGHT

Turn Bar Holder Installation

The Turn Bar Holder is packaged in box 7 kit and is designed to provide a place to keep the Turn Bar when not in use.

1

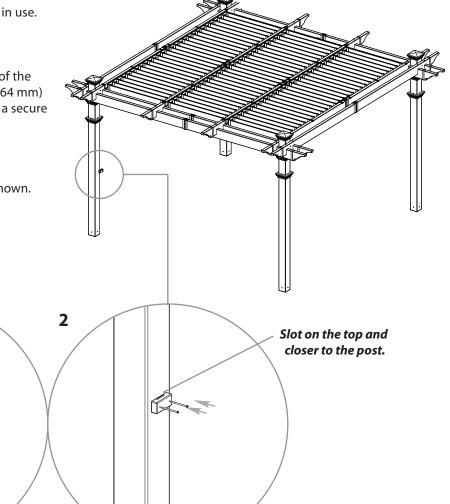
Pick a location that is easily accessible and out of the way of the louvers operation. The post is recommended as the 2 1/2" (64 mm) screws are used to protrude into the wooden post, providing a secure mounting support.

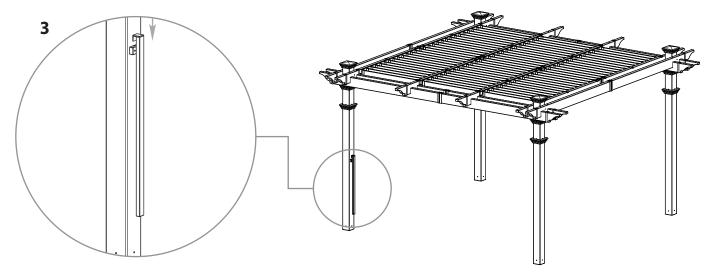
2

Mount with the slot on the top and closer to the post as shown. Fasten with two 2 1/2" (64 mm) screws provided.

3

Hang the Turn Bar as shown.





OPERATIONS

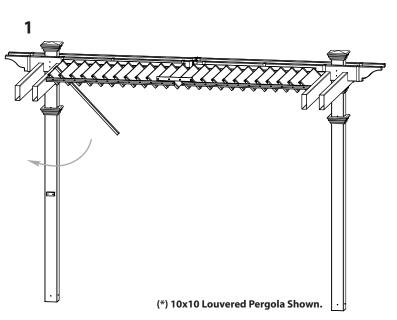
1

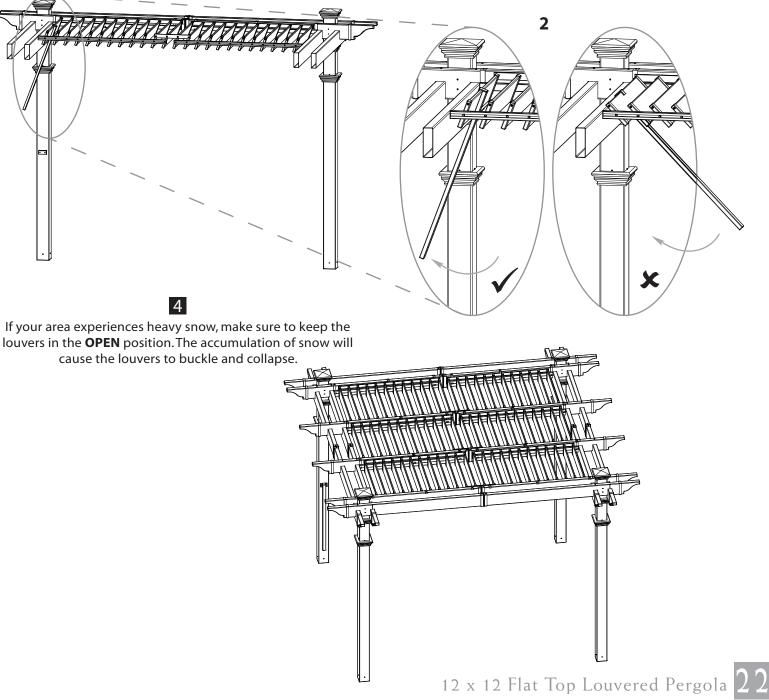
To adjust the positions of the louvers, slide the Turn Bar in between two louver boards and turn in a circular motion to the desired position. Excessive force should not be required.

For best leverage, push with the arm of the Turn Bar as opposed to 'prying' with the Turn Bar Cap(see illustrations).

3

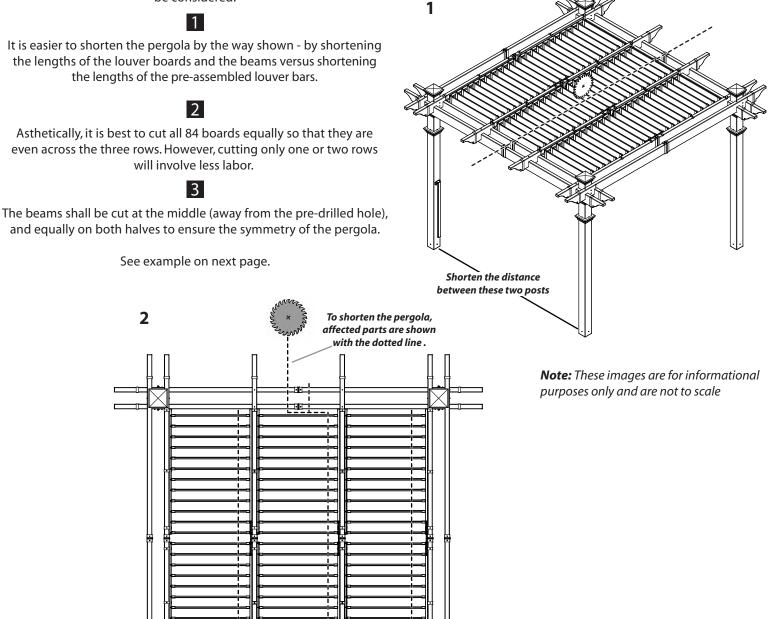
If operation proves to be difficult, this may be caused by nut(s) that are too tight. Troubleshoot which nut is too tight by turning them one by one, check for resistance, and loosen the nut slighty. Only loosen the nut a quarter of a turn at a time as it may come off.





MODIFICATION

The footprint of the pergola is 12' x 12' measured to the outside of the posts. If a smaller dimension is required, a few guidelines should be considered:



3 Cut equally on both halves of the beam, away from the predrilled holes. pre-drilled hole .

MODIFICATIONS

Below is an example of resizing the pergola: [In this example, the new dimensions are 120" (10') x 102" (8'-6")]

