

Pergola Installation Instructions

TOOLS REQUIRED



HAMMER DRILL



1/2" MASONRY
BIT



PENCIL



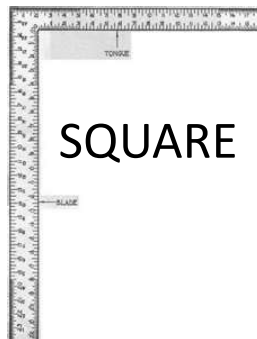
DRILL



3/16" DRILL
BIT



LEVEL



SQUARE



LADDER



WRATCHET &
SOCKETS



RUBBER Mallet



TAPE MEASURE

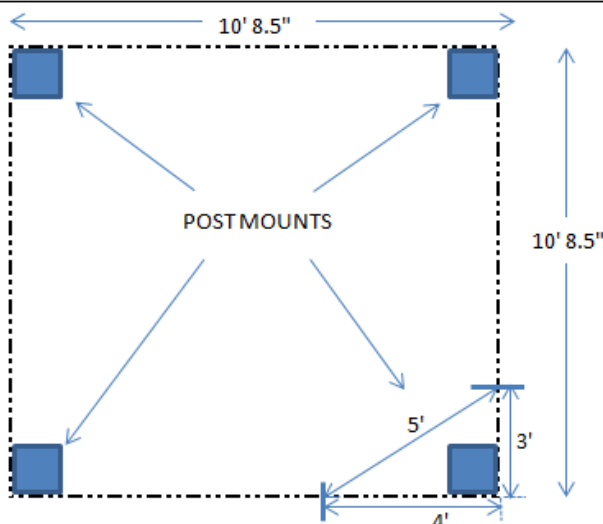
Column/Post Placement Table

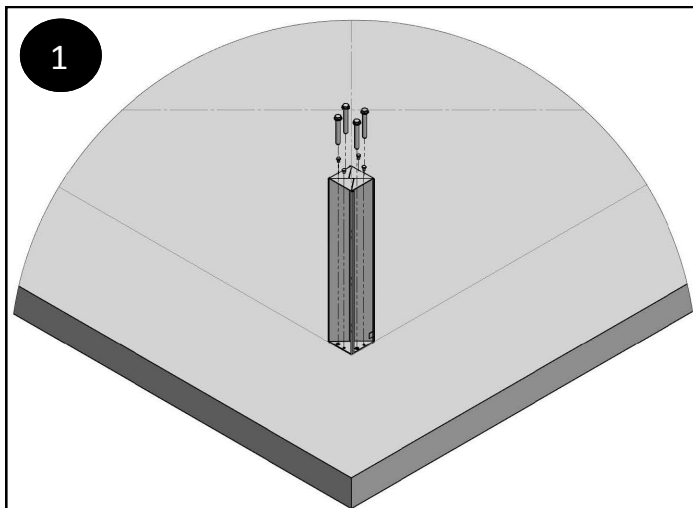
COLUMNS FOR PERGOLA

SIZE OF PERGOLA	8" Fluted		8" Tapered		10" Tapered		6" Square		8" Square		
	5.25		5.25		6.625		5.5		7.5		
	8'x8'	6' 8.5"	6' 8.5"	6' 8.5"	6' 8.5"	6' 9.25"	6' 9.25"	6' 8.5"	6' 8.5"	6' 10.5"	6' 10.5"
	8'x10'	6' 8.5"	8' 8.5"	6' 8.5"	8' 8.5"	6' 9.25"	8' 9.25"	6' 8.5"	8' 8.5"	6' 10.5"	8' 10.5"
	8'x12'	6' 8.5"	10' 8.5 "	6' 8.5"	10' 8.5 "	6' 9.25"	10' 9.25"	6' 8.5"	10' 8.5 "	6' 10.5"	10' 10.5"
	8'x16'	6' 8.5"	14' 8.5"	6' 8.5"	14' 8.5"	6' 9.25"	14' 9.25"	6' 8.5"	14' 8.5"	6' 10.5"	14' 10.5"
	8'x20'	6' 8.5"	18' 8.5"	6' 8.5"	18' 8.5"	6' 9.25"	18' 9.25"	6' 8.5"	18' 8.5"	6' 10.5"	18' 10.5"
	10'x10'	8' 8.5"	8' 8.5"	8' 8.5"	8' 8.5"	8' 9.25"	8' 9.25"	8' 8.5"	8' 8.5"	8' 10.5"	8' 10.5"
	10'x12'	8' 8.5"	10' 8.5 "	8' 8.5"	10' 8.5 "	8' 9.25"	10' 9.25"	8' 8.5"	10' 8.5 "	8' 10.5"	10' 10.5"
	10'x16'	8' 8.5"	14' 8.5"	8' 8.5"	14' 8.5"	8' 9.25"	14' 9.25"	8' 8.5"	14' 8.5"	8' 10.5"	14' 10.5"
	10'x20'	8' 8.5"	18' 8.5"	8' 8.5"	18' 8.5"	8' 9.25"	18' 9.25"	8' 8.5"	18' 8.5"	8' 10.5"	18' 10.5"
	10'x24'	8' 8.5"	22' 8.5"	8' 8.5"	22' 8.5"	8' 9.25"	22' 9.25"	8' 8.5"	22' 8.5"	8' 10.5"	22' 10.5"
	12'x12'	10' 8.5"	10' 8.5 "	10' 8.5"	10' 8.5 "	10' 9.25"	10' 9.25"	10' 8.5"	10' 8.5 "	10' 10.5"	10' 10.5"
	12'x16'	10' 8.5"	14' 8.5"	10' 8.5"	14' 8.5"	10' 9.25"	14' 9.25"	10' 8.5"	14' 8.5"	10' 10.5"	14' 10.5"
	12'x20'	10' 8.5"	18' 8.5"	10' 8.5"	18' 8.5"	10' 9.25"	18' 9.25"	10' 8.5"	18' 8.5"	10' 10.5"	18' 10.5"
	12'x24'	10' 8.5"	22' 8.5"	10' 8.5"	22' 8.5"	10' 9.25"	22' 9.25"	10' 8.5"	22' 8.5"	10' 10.5"	22' 10.5"
	16'x16'	14' 8.5"	14' 8.5"	14' 8.5"	14' 8.5"	14' 9.25"	14' 9.25"	14' 8.5"	14' 8.5"	14' 10.5"	14' 10.5"
	16'x20'	14' 8.5"	18' 8.5"	14' 8.5"	18' 8.5"	14' 9.25"	18' 9.25"	14' 8.5"	18' 8.5"	14' 10.5"	18' 10.5"
	16'x24'	14' 8.5"	22' 8.5"	14' 8.5"	22' 8.5"	14' 9.25"	22' 9.25"	14' 8.5"	22' 8.5"	14' 10.5"	22' 10.5"
	20'x20'	18' 8.5"	18' 8.5"	18' 8.5"	18' 8.5"	18' 9.25"	18' 9.25"	18' 8.5"	18' 8.5"	18' 10.5"	18' 10.5"
20'x24'	18' 8.5"	22' 8.5"	18' 8.5"	22' 8.5"	18' 9.25"	22' 9.25"	18' 8.5"	22' 8.5"	18' 10.5"	22' 10.5"	
24'x24'	22' 8.5"	22' 8.5"	22' 8.5"	22' 8.5"	22' 9.25"	22' 9.25"	22' 8.5"	22' 8.5"	22' 10.5"	22' 10.5"	

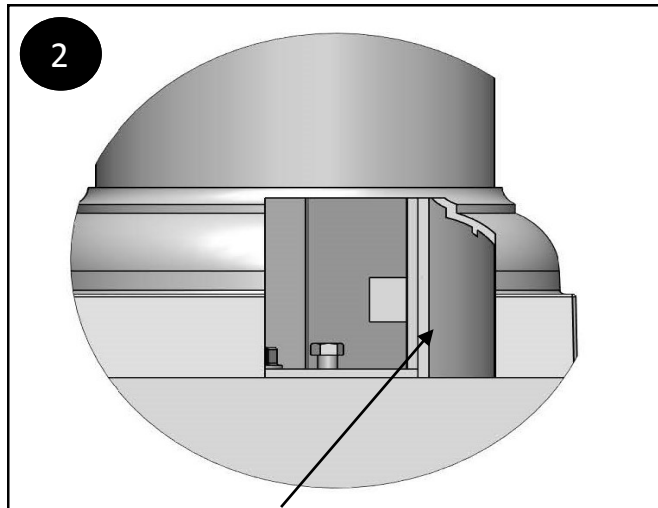
Note: This table is for finding the outside dimensions for your concrete mount assemblies. For example...if you were using an 8" Tapered column for a 12' x 12' Pergola, you would find your size and your column and the dimensions would be your dimensions for your chalk line. Then your concrete mount assemblies would go in the corners of each. To make sure that your square is actually square, use the 3',4',5' method (see below).

Ex. 12' x 12' w/8" tapered columns

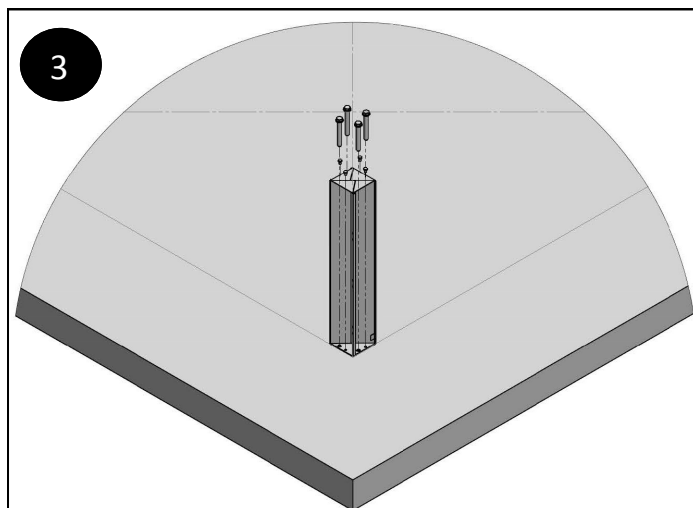




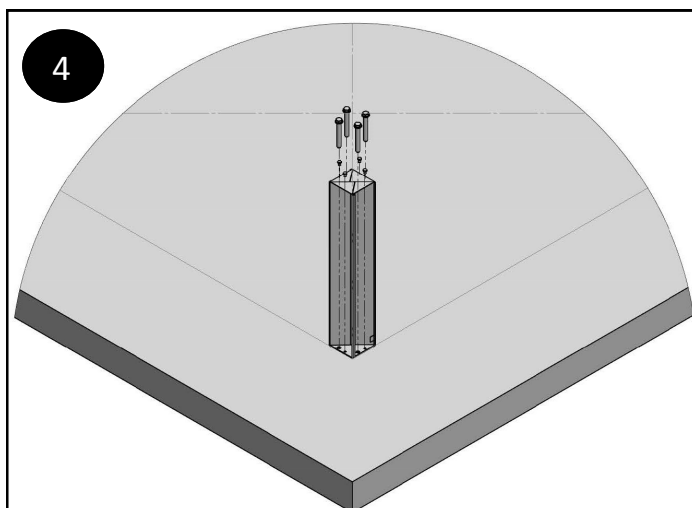
Using the table on previous page, mark out base with a chalk line and use the 3'-4'-5' method to ensure square. Set post mount in corners of chalk-line, make sure that leveling plate and mount holes line up. Mark hole locations and remove mount and plates.



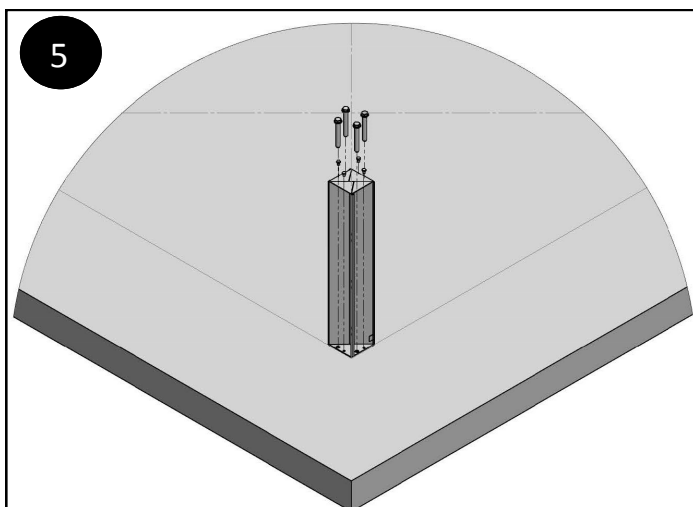
Make sure that the uplift tab is facing out and mark floor for placement. (Only needed if uplift tab will be used)



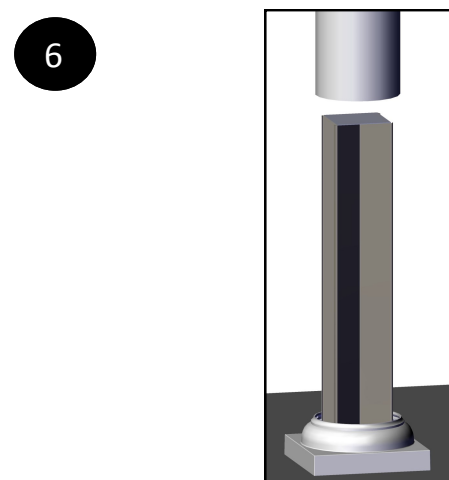
Begin by pre-drilling $\frac{1}{2}$ " holes into the concrete, with a masonry bit, after marking their location through the base plate of the post bracket. Using a hammer drill, drive the wedge bolts into the concrete securing the base loosely.



Using a level, ensure that the post bracket is plumb tightening the adjustment bolts accordingly.

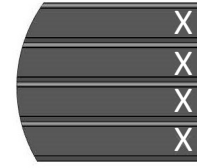
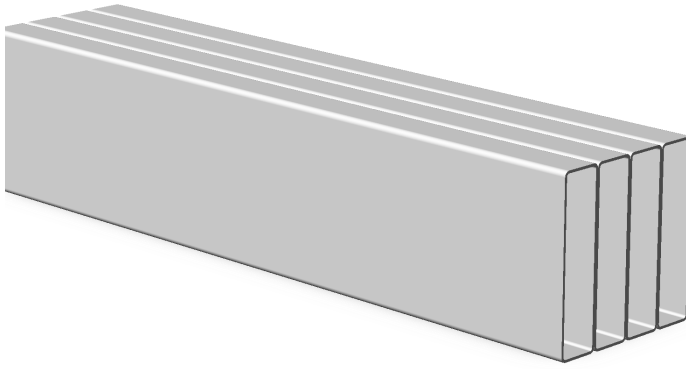


With the posts plumb, fully secure the bracket by tightening the wedge bolts into the concrete.

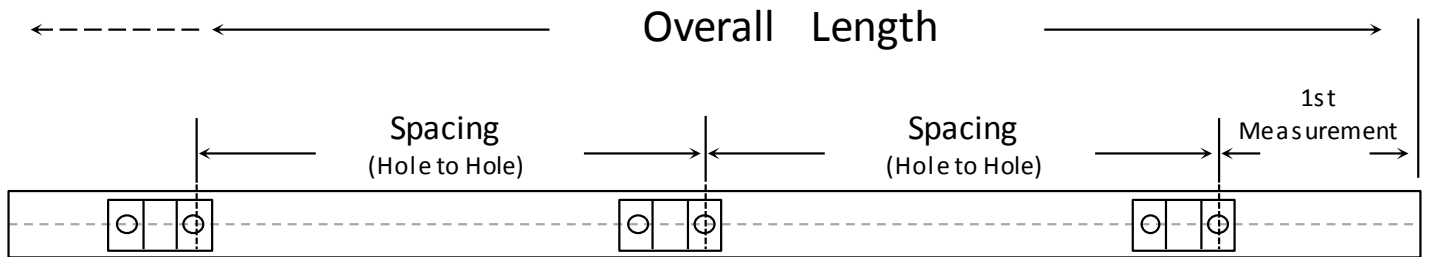


Slide your column/post onto post mount, make sure that you put bottom trim ring on before you assemble beams.

7



Lay your beams down, align the ends using a carpenter square. With the beams together (you can clamp together if needed), make an X on this end only (as shown). Use the table below to get measurements for your size pergola in the next step.



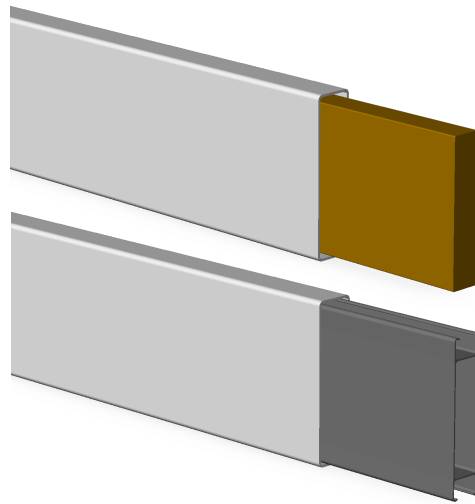
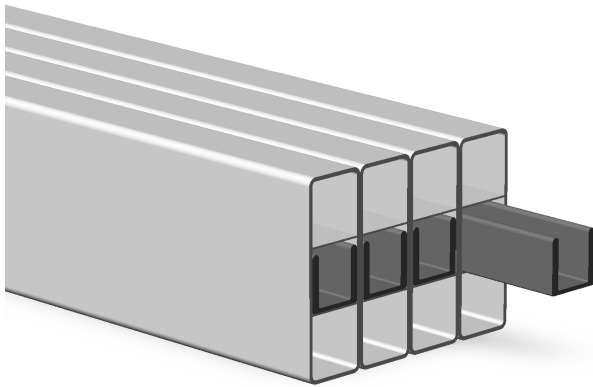
Pergola Overall Length	Rafter Size	1st Measurement	Spacing (Hole to Hole)	# of Rafter Required
8'	1 ½"	4 ½"	14"	7
	2"	4 ¼"		
10'	1 ½"	4 ¼"	15 ½"	8
	2"	4"		
12'	1 ½"	4 ⅛"	14 ¾"	10
	2"	3 ⅞"		
16'	1 ½"	4 ½"	15"	13
	2"	4 ¼"		
20'	1 ½"	4 ⅛"	15 ¼"	16
	2"	3 ⅞"		
24'	1 ½"	4 ⅜"	15 ⅜"	19
	2"	4 ⅛"		

8

			X
			X
			X
			X

Using a pencil, mark the placement of the rafter brackets on 1 of the beams, referring to table on previous page. Start on end with the "X". Using a carpenter square, carry the bracket location marks across all beams.

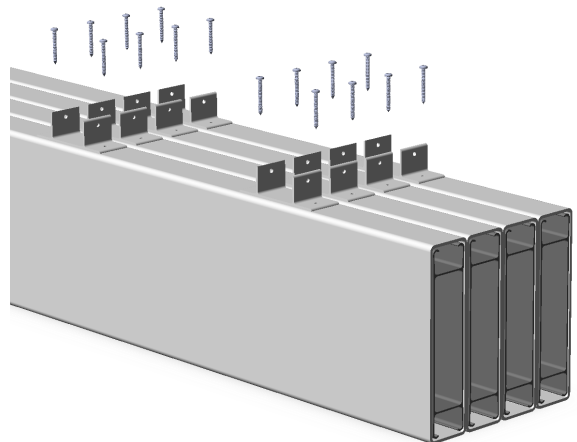
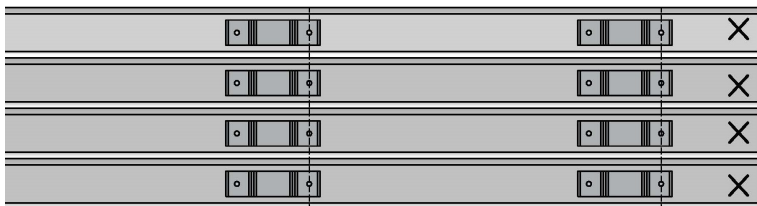
9



Insert the aluminum into the rails as shown. When using 2x6, insert aluminum into middle rib with channel legs facing up.

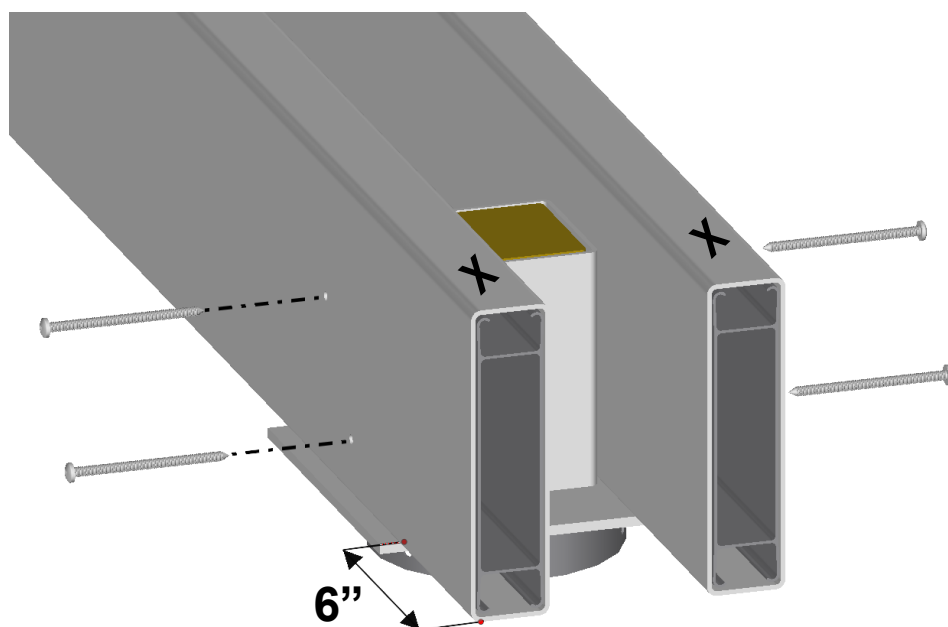
HOLLOW RAILS: Insert aluminum beam support or wood beam into the hollow rails.

10



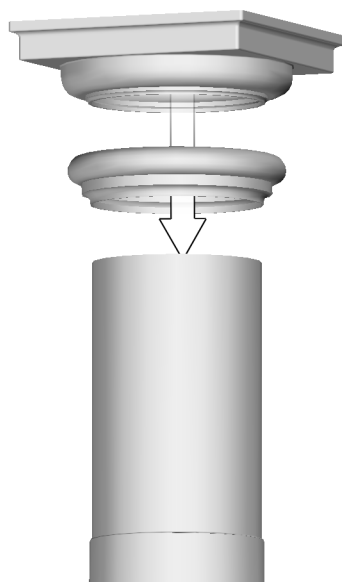
Center the brackets on the beam, with the mark centered in the hole of the bracket. Secure with #8 x 1" screws.

11



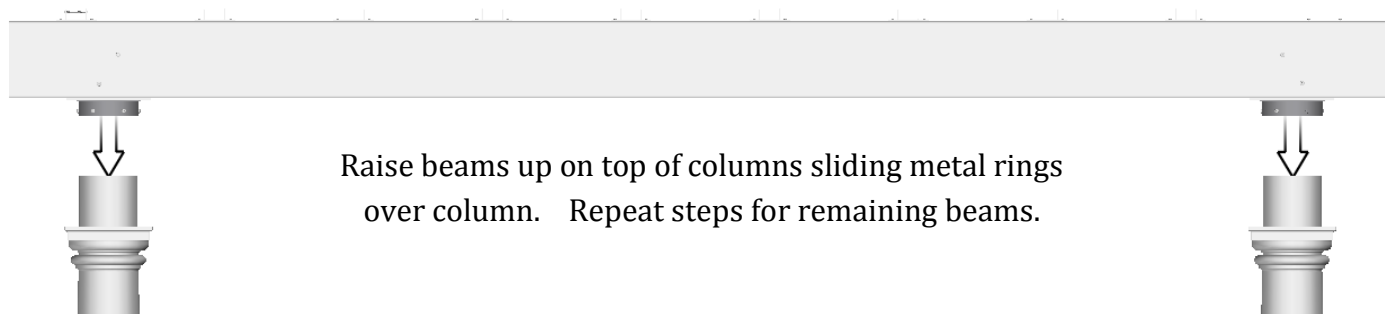
Set beam mounts upright and set a beam on either side of the top of the mount as shown making sure that x's are aligned. Measure 6" in from the end of the beam to the edge of the poly plate on the beam mount. Holding that dimension, using an extra long drill bit, pre-drill 3/16" hole into beam (staggering placement as shown above), through wood, and into poly block on beam mount. Using a #14x4" screw secure the beam to the poly block. Repeat this process for opposite side (making sure that your hole placement is opposite). Repeat for opposite end and other beams to be assembled.

12



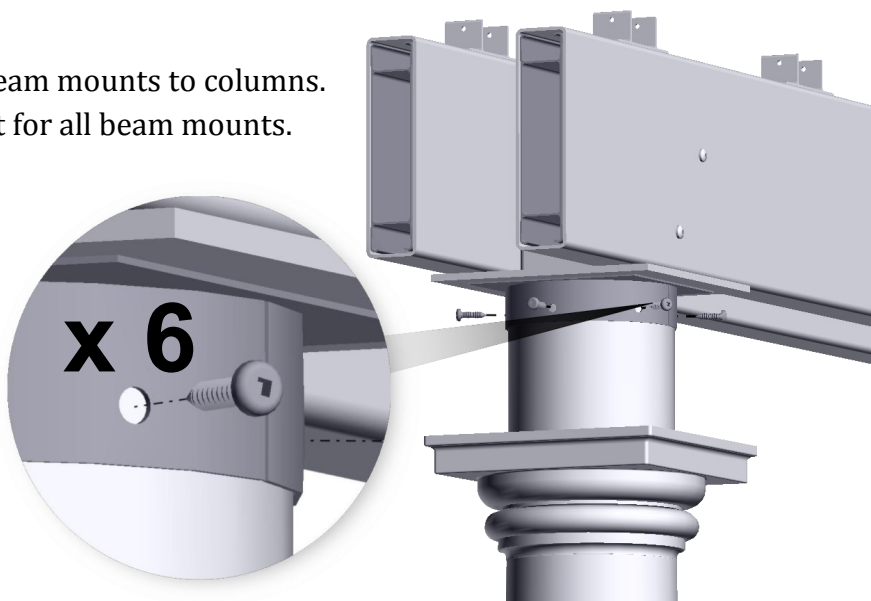
Put all trim rings on as shown.

13



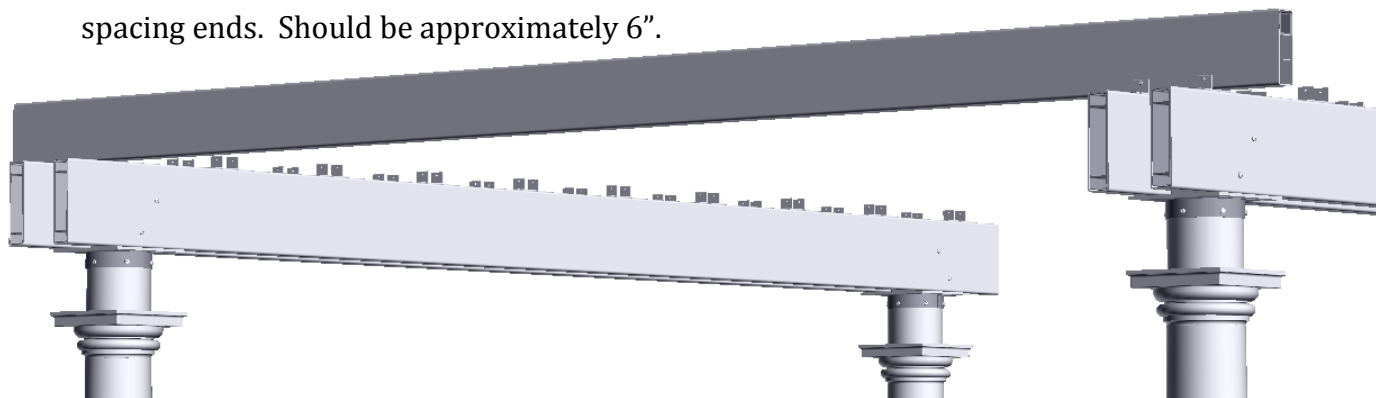
14

Secure beam mounts to columns.
Repeat for all beam mounts.

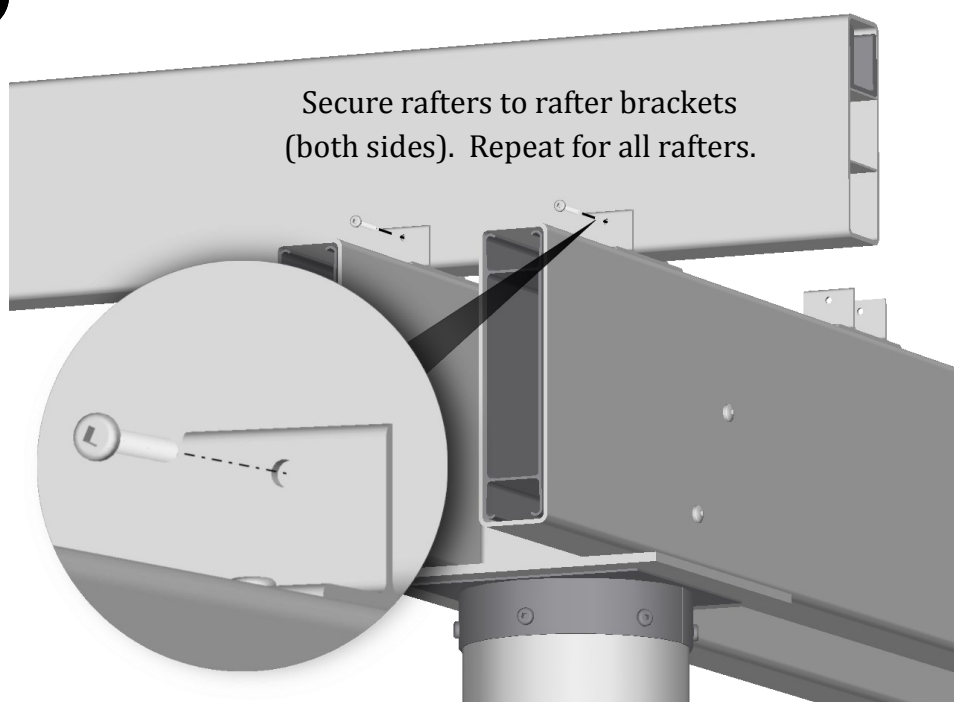


15

Lay rafters in rafter bracket channels equally
spacing ends. Should be approximately 6".

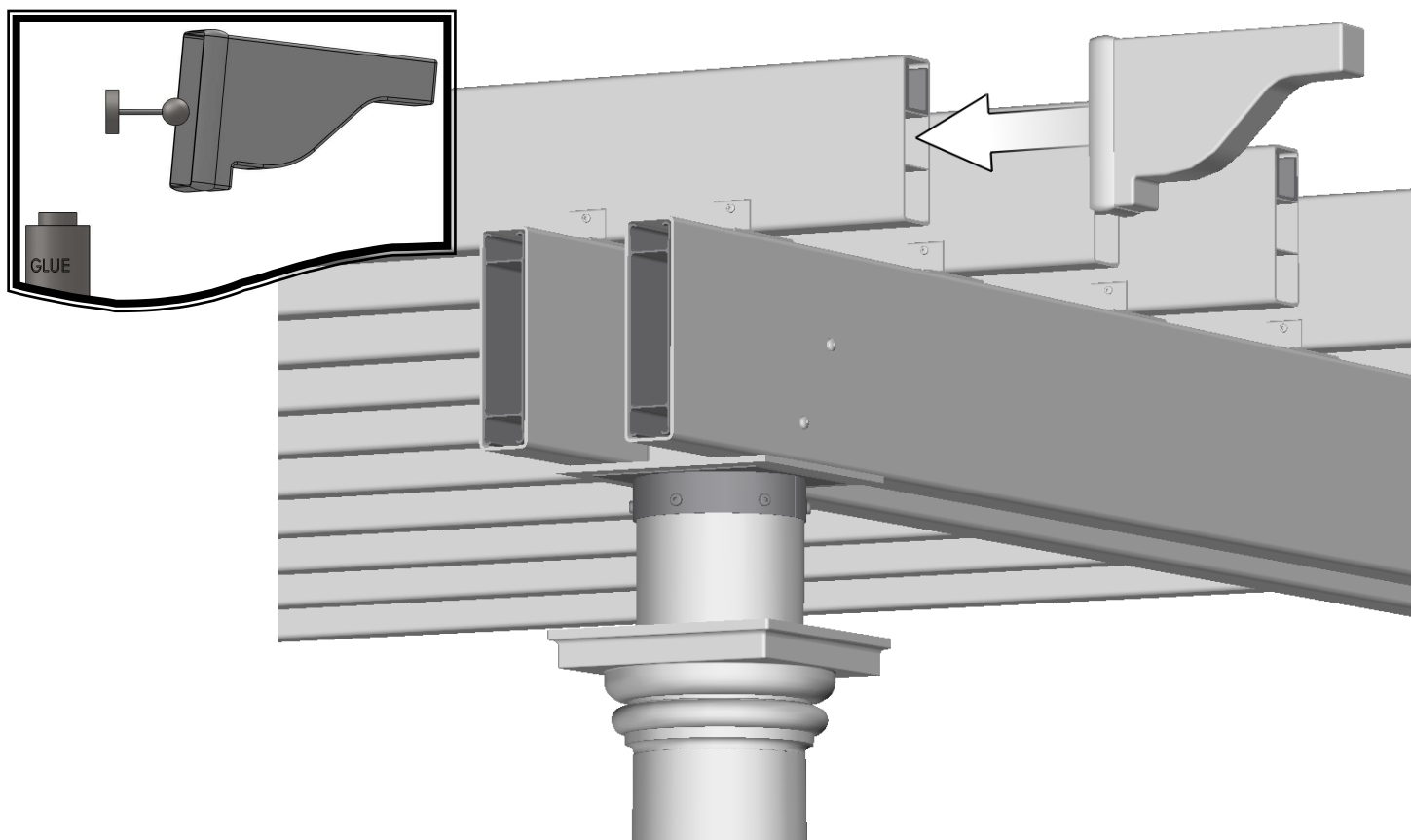


16

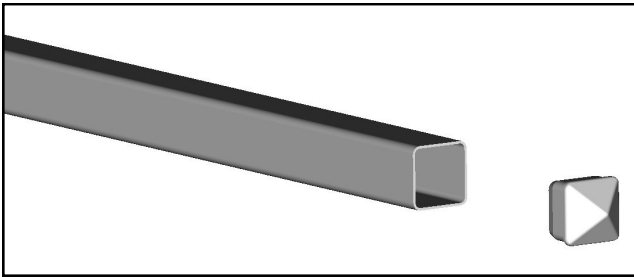


17

Apply glue to inside edges of Pergola End and slide over end of rafter. Repeat for all rafters (both ends).

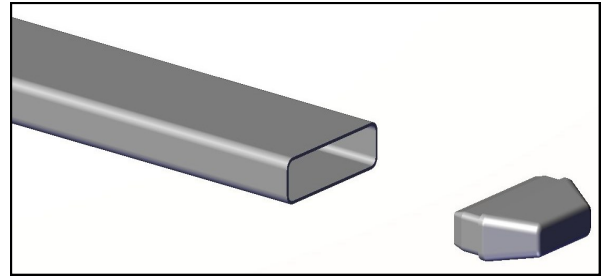


Installing Shade Cover



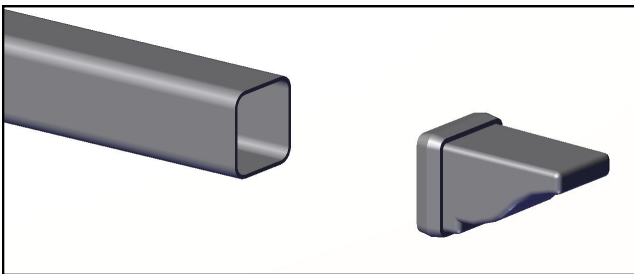
1 1/2 Sq. Shade Cover

Secure caps before installing shade cover using rubber mallet.



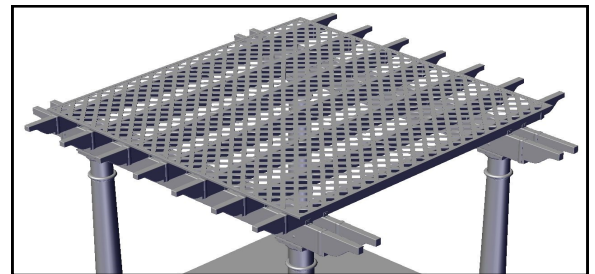
7/8 x 3 Shade Cover

Secure caps before installing shade cover using rubber mallet.



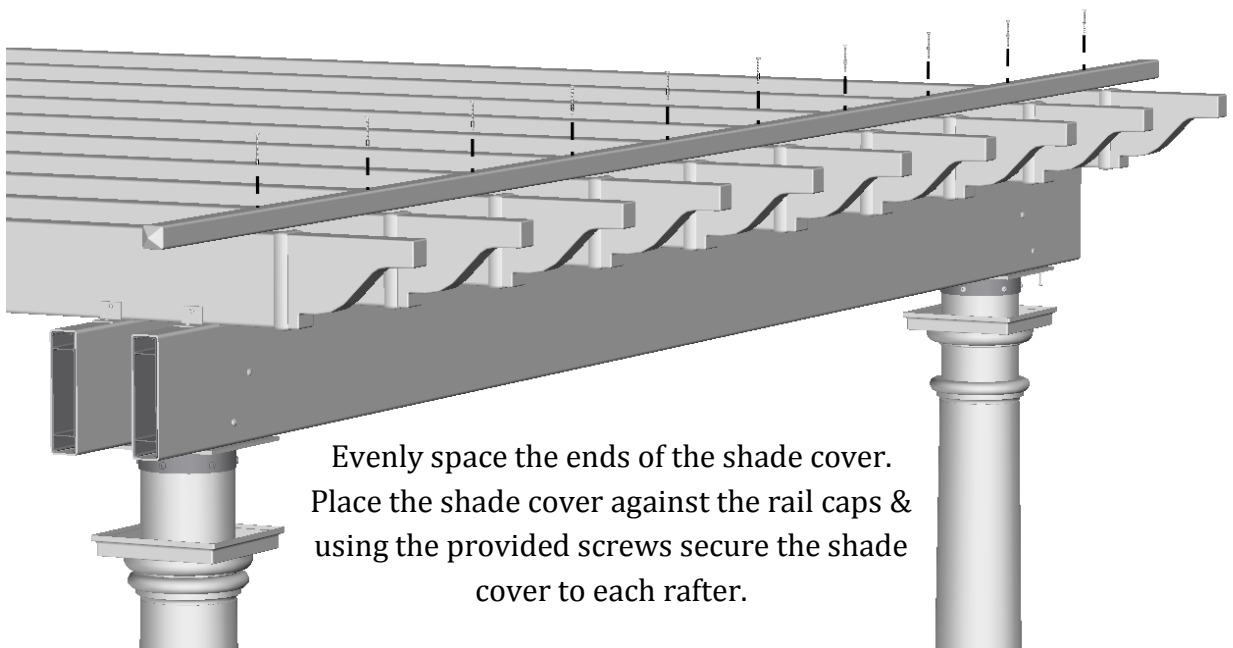
1 3/4 Sq. Shade Cover

Install shade cover then glue ends on using same method as Pergola Ends.



Lattice Shade Cover

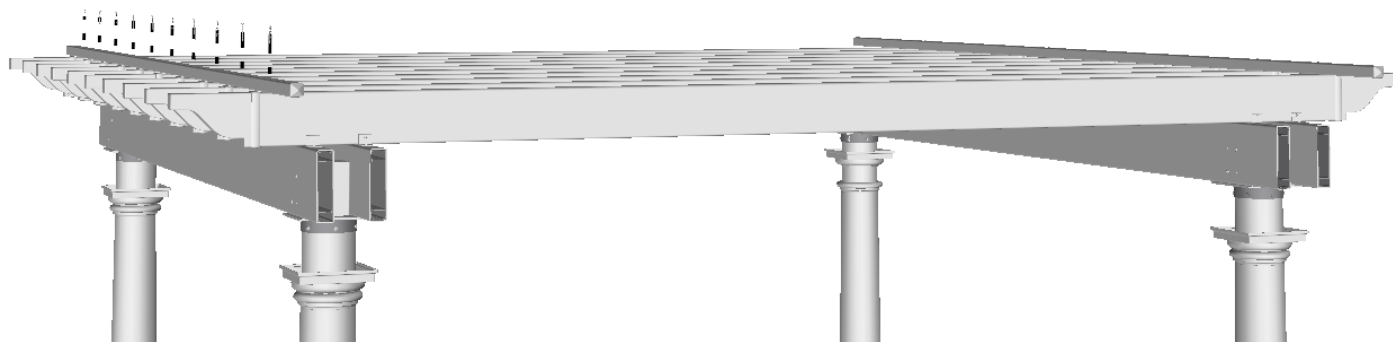
Install on top of rafters, approx. 4" overhang on rafters on ends and to edge of pergola ends of rafters on sides. Install channel on each raw edge of lattice and secure with screws.



Evenly space the ends of the shade cover. Place the shade cover against the rail caps & using the provided screws secure the shade cover to each rafter.

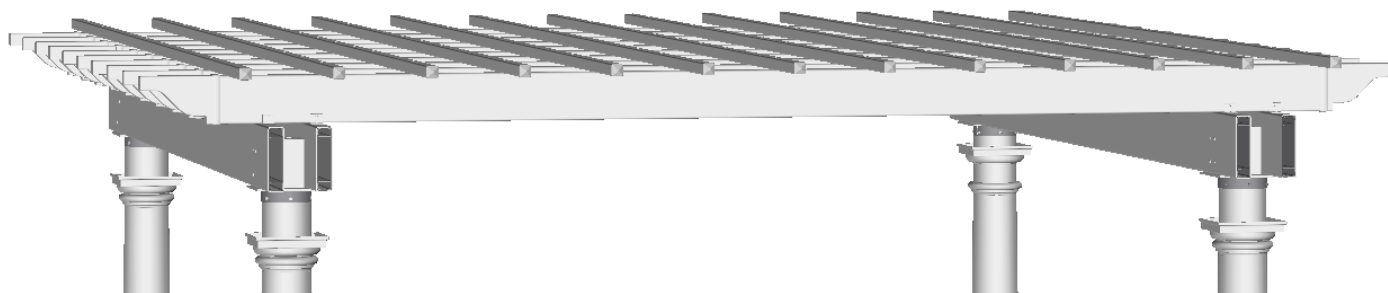
20

Repeat steps #19 and #20 on opposite end.



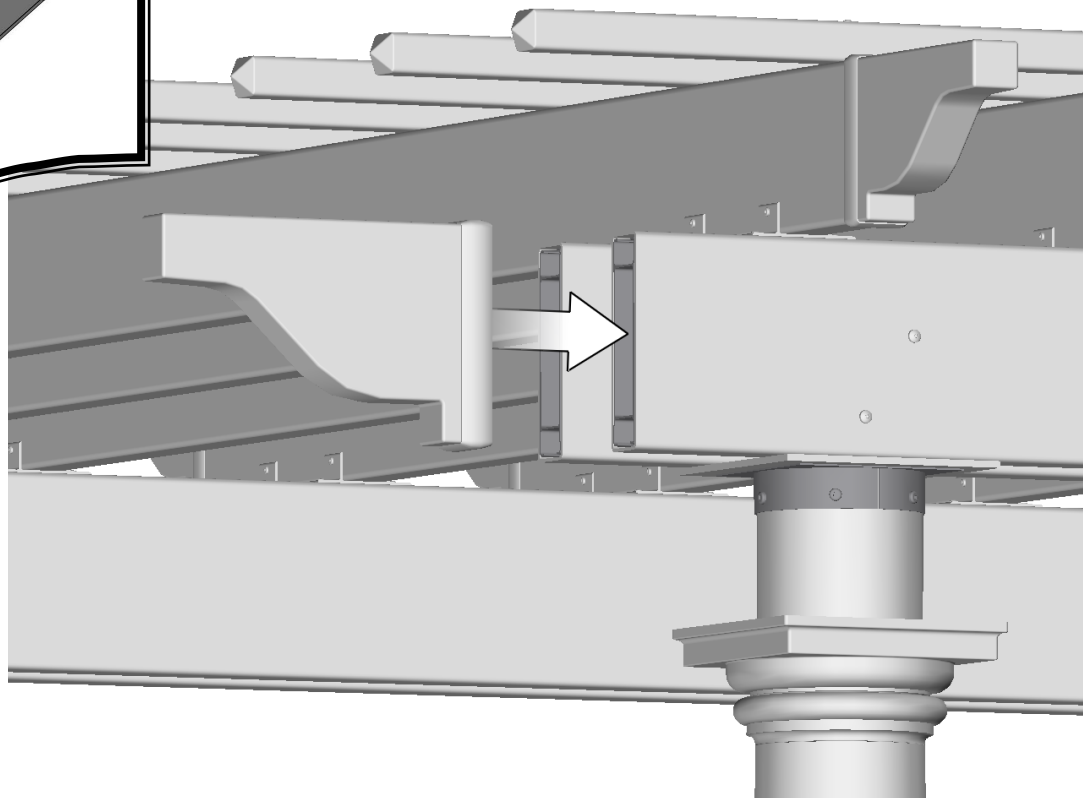
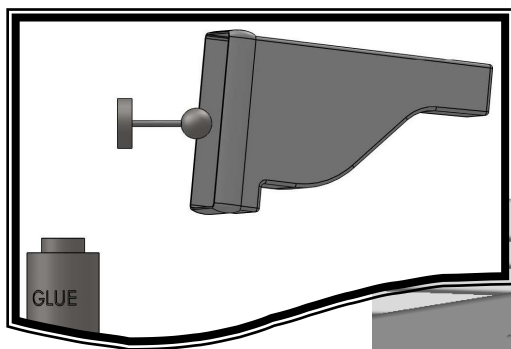
21

Evenly space remaining shade cover (approximately 12") and secure with screws.



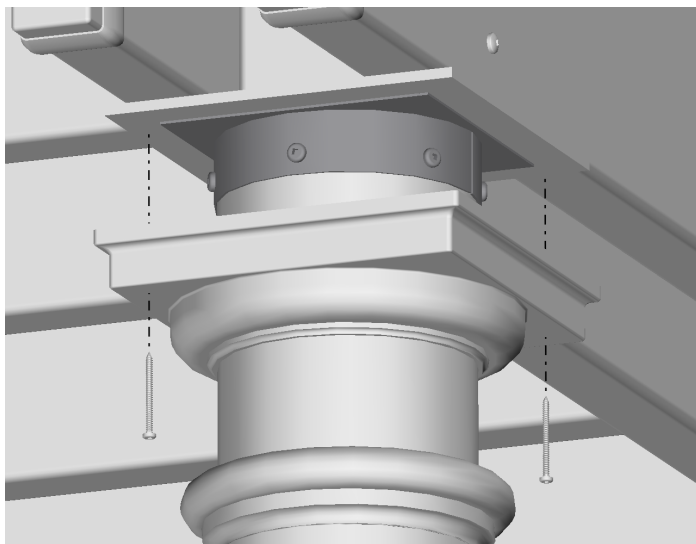
22

Apply glue to inside edges of Pergola End and slide over end of beams. Repeat for all beams.



23

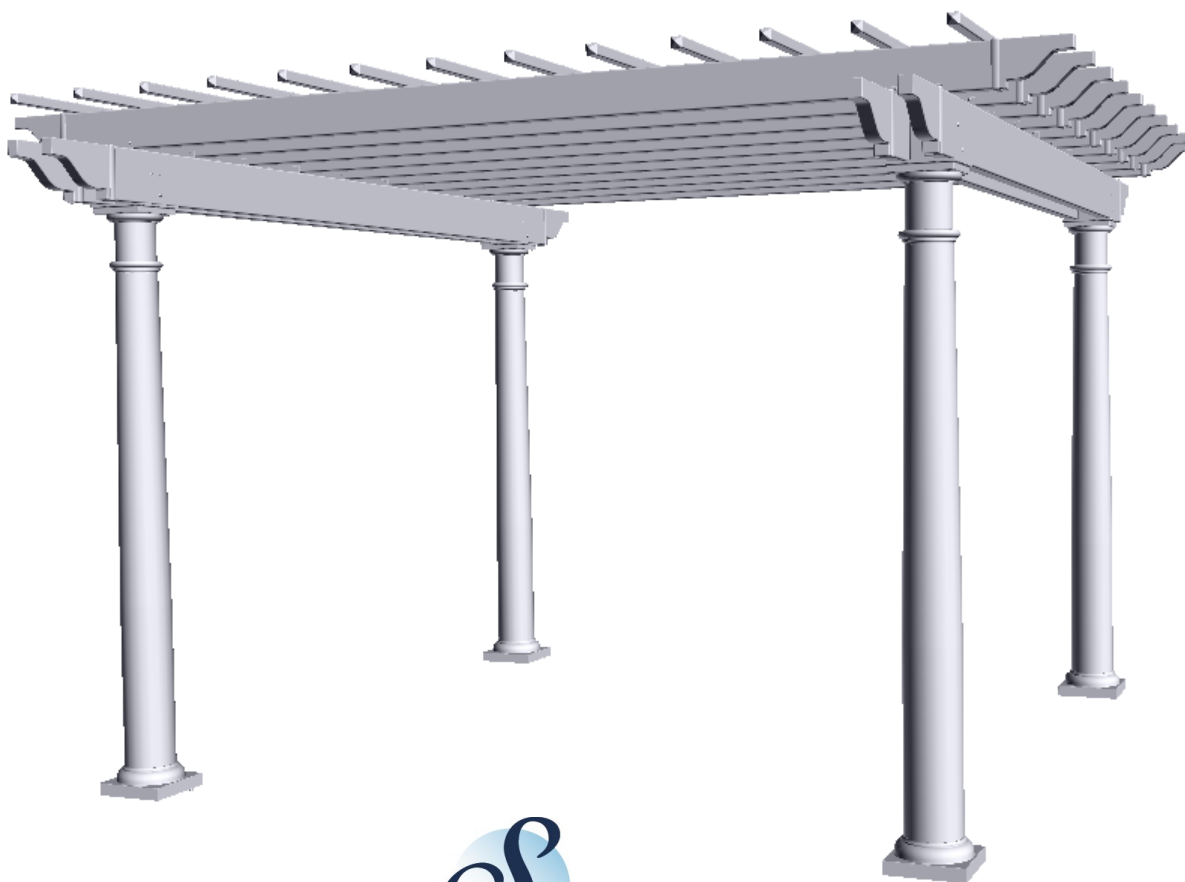
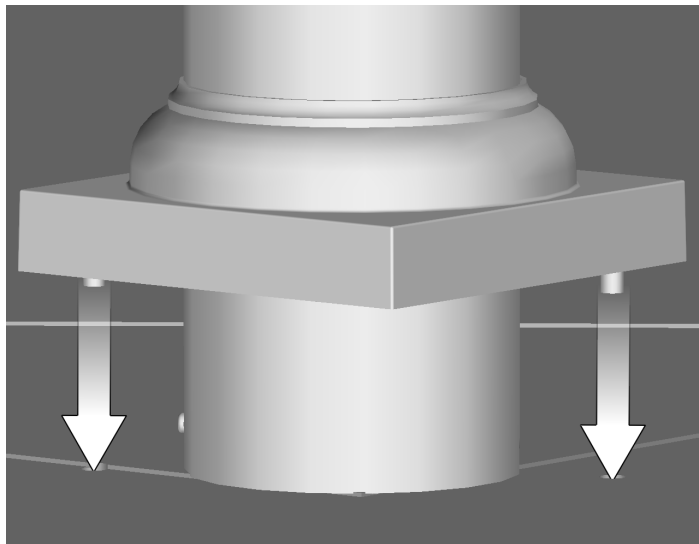
Slide trim ring up over poly plate and secure with screws into beam. Repeat this step at all columns.



24

Ensuring the trim ring is square with the pergola, raise the bottom trim ring & mark the placement of the tabs. Drill a hole into the concrete for each tab to slide in to.

Repeat this step at each column.



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