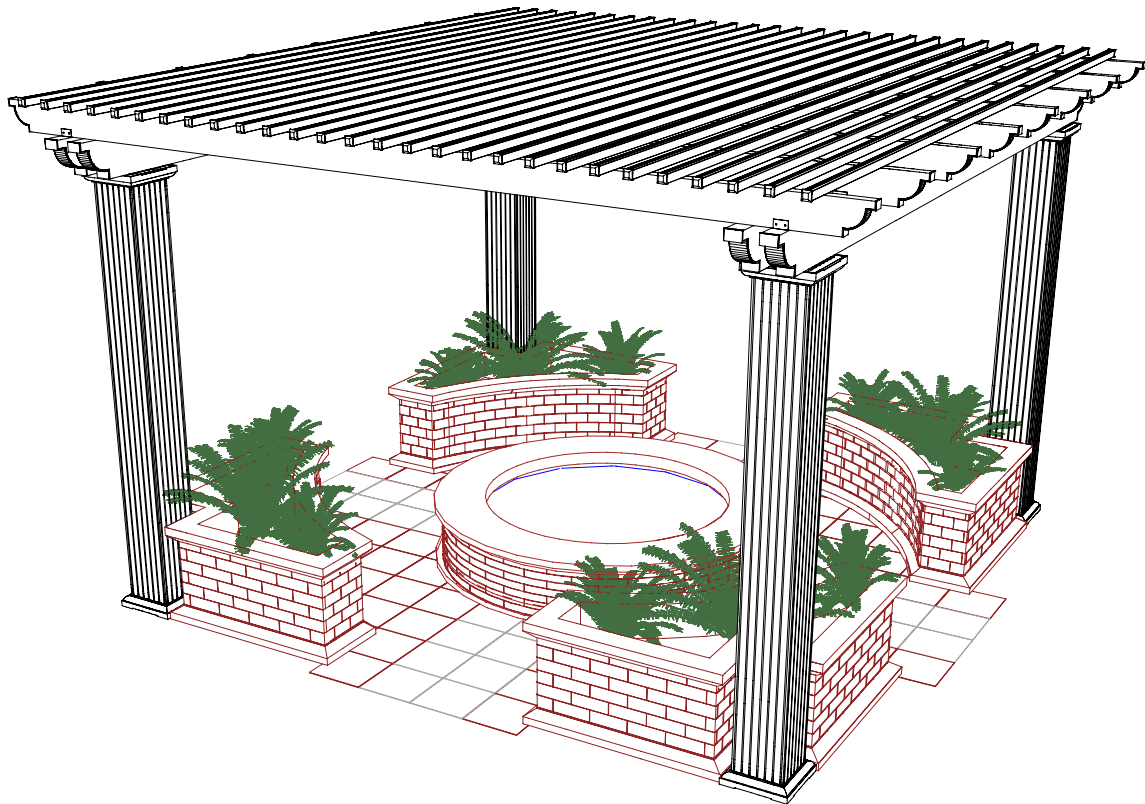
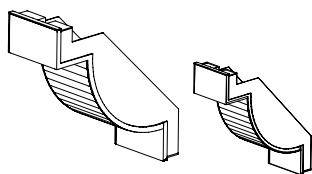


## FREESTANDING DOUBLE-HEADER PERGOLA INSTALLATION INSTRUCTIONS

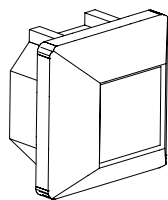


**Recommended Tools:** Safety Glasses, Tape Measure, Carpenters Level, Framing Square, Hex Head Nut Drivers, Chalk Line, Elec. Drill w/ Bits, 5/8" Hole Drill Bit, (Masonry Drill, Bits, & Anchors may be required if securing to Stone, Concrete, or any other masonry unit.)

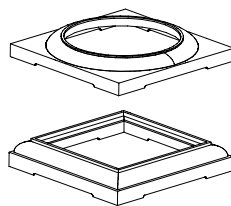
- Before You Begin:**
- 1.) Please read all instructions carefully. Check the Bill of Materials for any missing parts, and gather necessary tools. To prevent scratching of painted materials, place on a tarp, paper, or protective material.
  - 2.) You may be required to obtain a building permit for this structure from your local building authority. This product should only be installed in 10, 20, or 30 psf (pounds per square foot) snow load and 90 mph or less wind speed zone (Custom models can be designed for heavier loads). This product is listed under ICBO Evaluation Report #2621P. You may have to submit two copies of your plot plan and also a copy of the evaluation report to your local building authority for a building permit. Contact your local building department for details and your area's snow & wind loads.
  - 3.) Note that this Pergola Kit is not designed to carry additional loads such as hanging heavy plants, swings, people, or other objects.
  - 4.) Fountain, Patio Stone, & Ferns are not included.



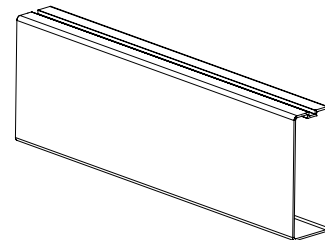
1. Designer End Caps for Headers & Rafters



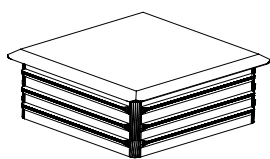
2. End Cap for 1 1/2" Sq. Lattice



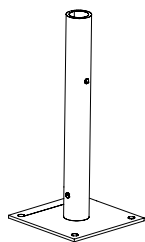
3. Column Cap (Round & Square Shown)



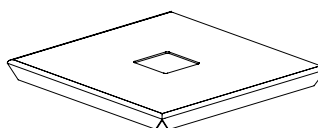
4. Header Splice (Optional)



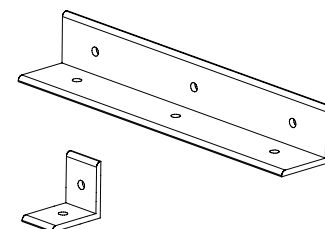
5. 3" Post Cap



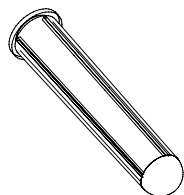
6. Lower Post Mounting Bracket (Optional)



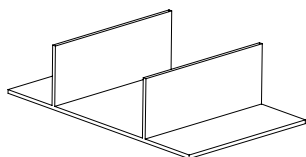
7. Upper Column Mounting Plate



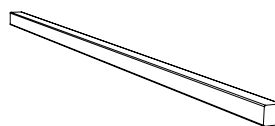
8. Lwr. Col. Mtg. Bracket (Round & Square Shown)



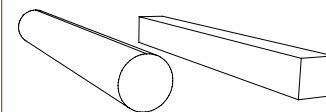
9. Lag Bolt Insert



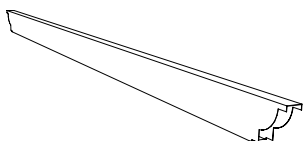
10. Rafter Bracket



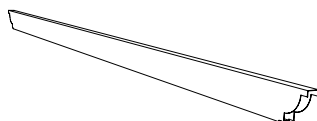
11. 3" x 3" Post



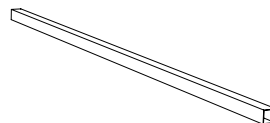
12. Fluted Column (Round or Square)



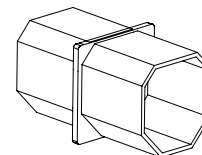
13. 3" x 8" Header (Shown Precut for Optional Designer End Caps)



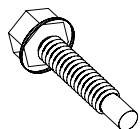
14. 2" x 6" Rafter (Shown Precut for Optional Designer End Caps)



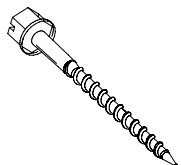
15. 1 1/2" x 1 1/2" Lattice



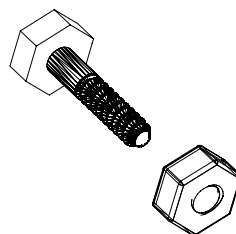
16. Lattice Splice (Optional)



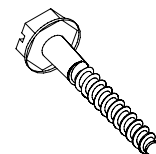
17. #8 x 3/4" Tek Screw



18. #10 x 2" Stainless Steel Sheet Metal Screw (SMS)



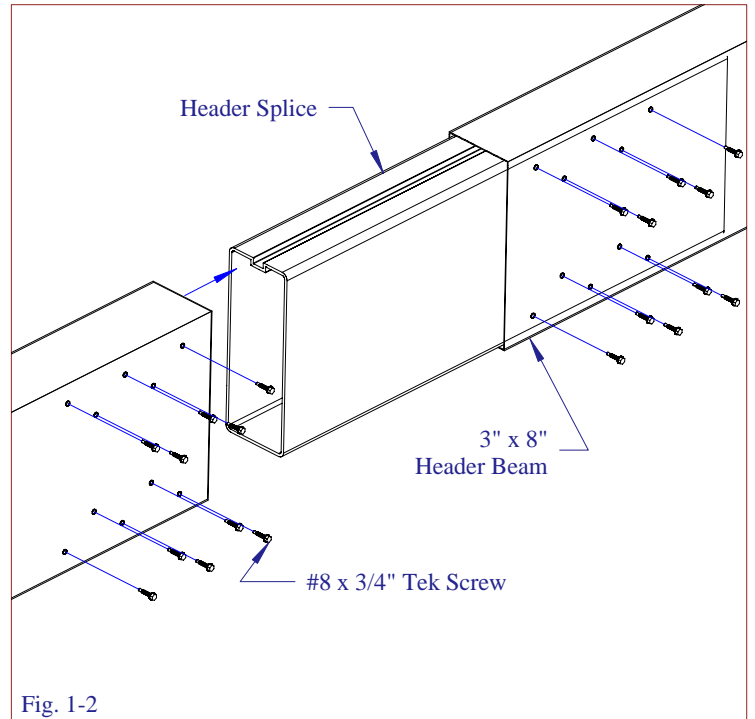
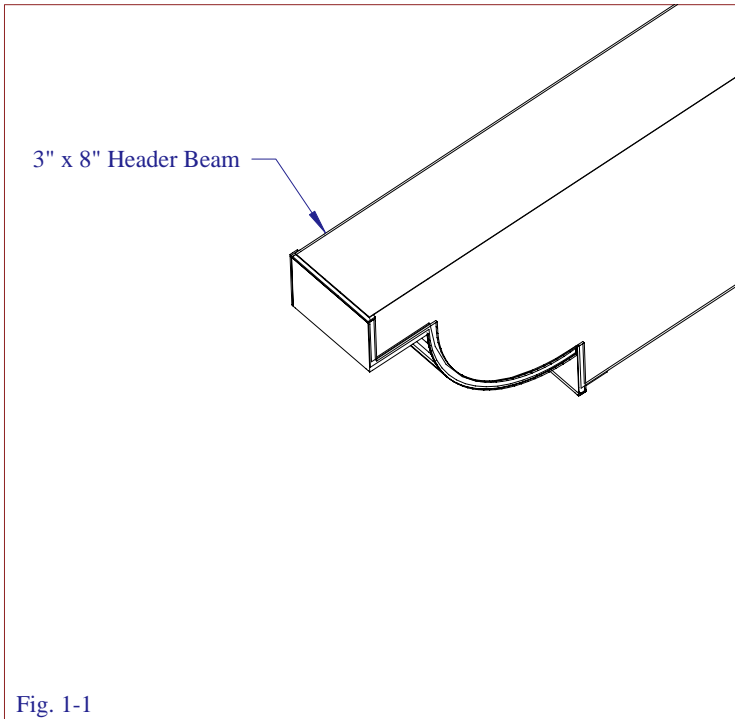
19. 3/8" x 3 1/2" Bolt w/ Nut



20. 1 1/2" Lag Screw

## STEP 1

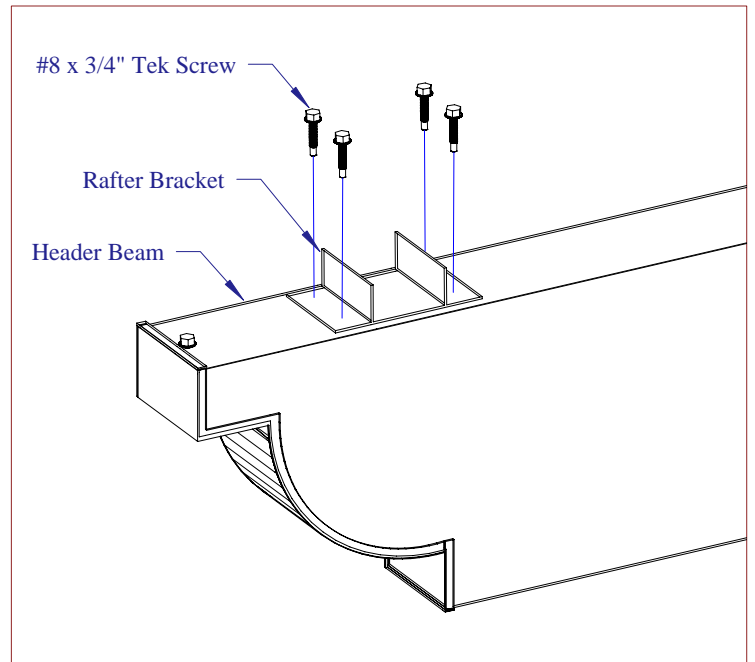
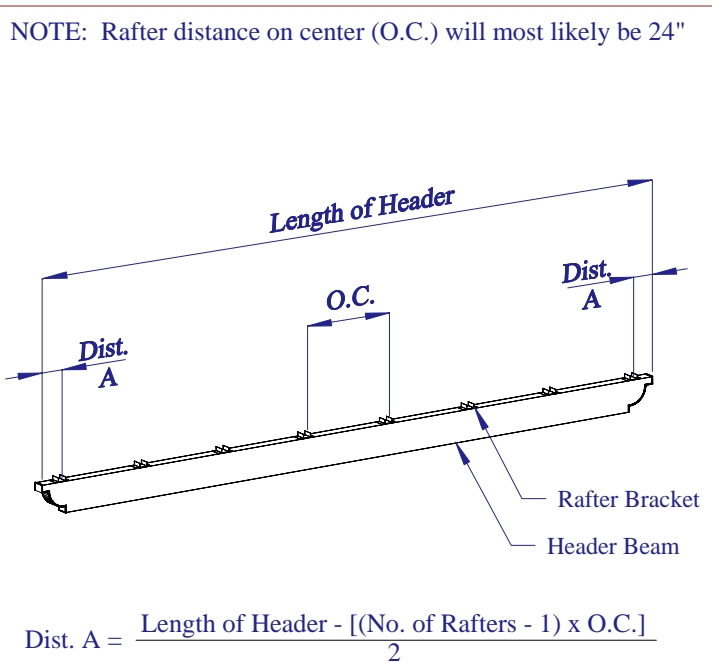
Pick out the 3" x 8" header beams (Fig. 1-1). If the header beams require splicing simply insert an equal amount of the provided header splice into each of the square ends of the header beams and secure with 10 - #8 x 3/4" Tek Screws on both sides of the splice (Front & Back for a total of 40 screws, see Fig 1-2). Be sure to locate a column under header splices.



## STEP 2

Pick out the Rafter Mounting Brackets (#10 on parts list). Secure Rafter brackets to header with 4 - #8 x 3/4" Tek Screws as shown in Fig. 2-2, see Fig. 2-1 for spacing details. If the Header is reinforced, 1 1/2" screws must be used to secure the Rafter Brackets to the Header.

NOTE: Rafter distance on center (O.C.) will most likely be 24"



### STEP 3

Determine the best location for your new pergola and mark outer edges by snapping a chalk line the length of your headers along the outer edge. Turn 90 degrees and snap a chalk line the length of your rafters beginning at the end of the previous chalk line. Repeat to close the square. Locate the center of the posts by subtracting the desired overhang from the over all dimensions and snap 4 chalk lines accordingly (see Fig 3-1).

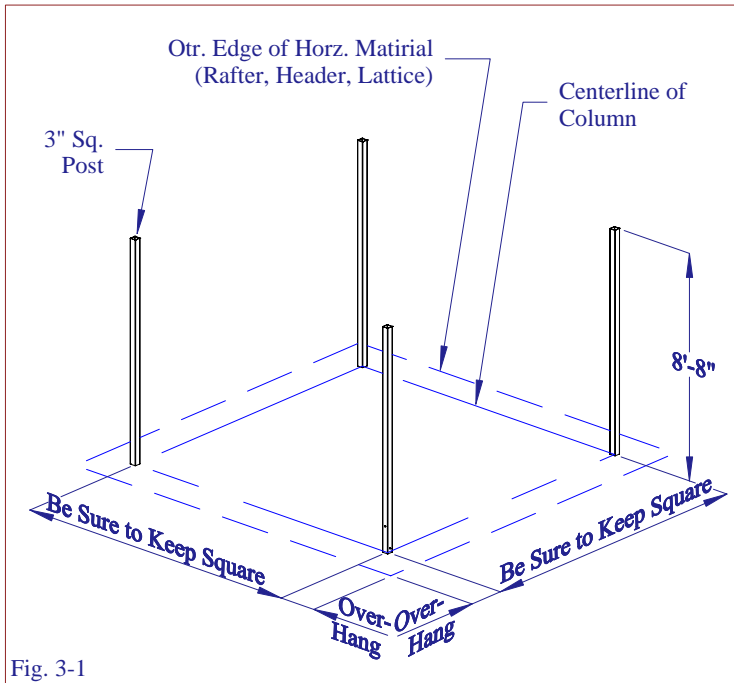


Fig. 3-1

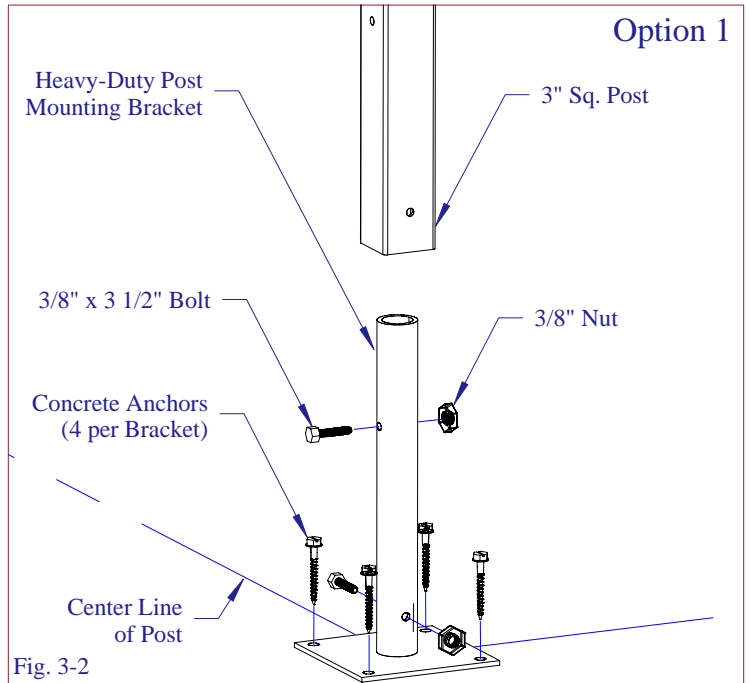


Fig. 3-2

Depending upon the available surface or local building codes there are three post mounting options.

Option 1 - If your pergola has Heavy Duty Mounting Brackets, anchor them at the intersection of two centerlines, drill 4 holes for Anchor Bolts, and attach bracket to ground with 4 Anchor Bolts. Then, with 2 - 3/8" x 3 1/2" Bolts, attach post to bracket (see Fig. 3-2). Note: If installing side post plates, only one bolt is required for the post to bracket connection.

Option 2 - If you plan to bury your post, start by digging a hole approximately 12" in dia. x 30" deep. Place rock 6" deep in bottom of hole and drop 3" post in. (NOTE: Be Sure there is 8'-0" of post above ground.) Fill hole with a pre-mix of cement, agragete, and water. Check post on all sides with a carpenters level to make sure it is plum with the ground (see Fig 3-3).

Option 3 - If your pergola has standard lower mounting brackets, just anchor them at the intersection of two centerlines, drill 4 - 3/8" dia Holes and embed 4 - Lag bolt Inserts. Now, with 4 - 1 1/2" Lag Screws, attach brackets to concrete and attach post to bracket with 4 - #10 x 1 1/4" Tek Screws (see Fig. 3-4).

NOTE: If installing fiberglass columns, skip to Step 4 after snapping chalklines.

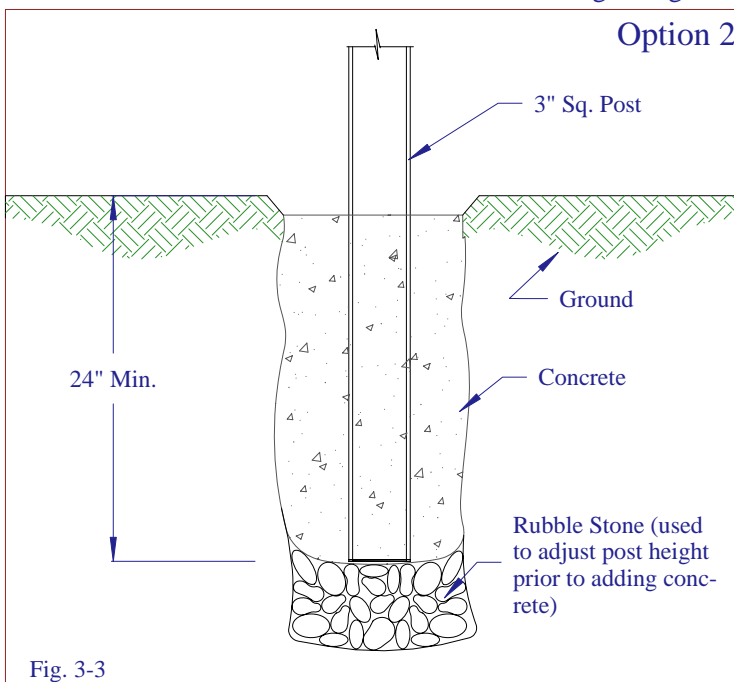


Fig. 3-3

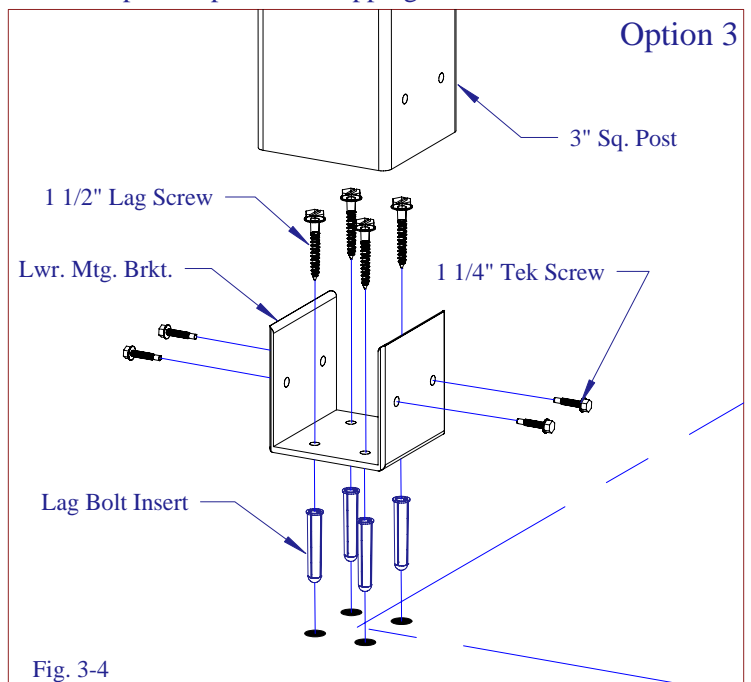
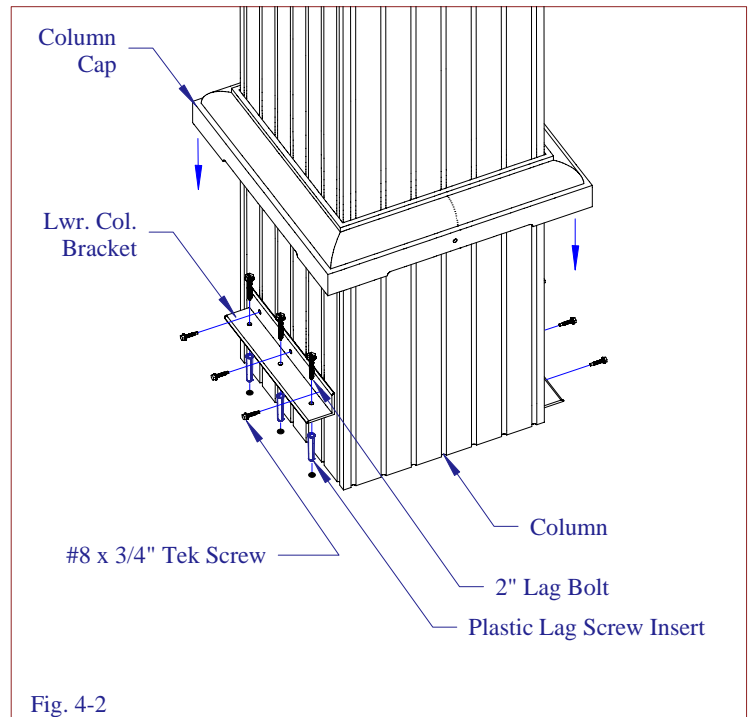
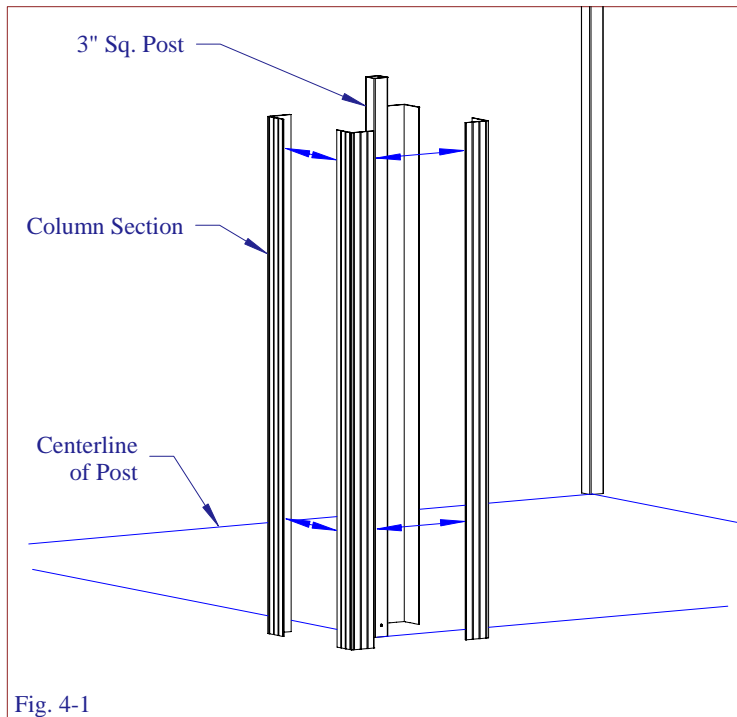


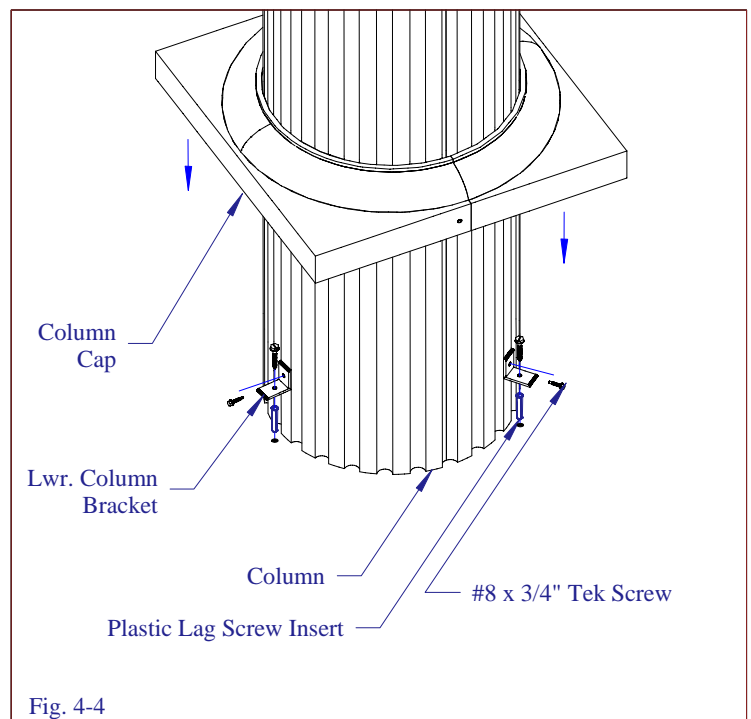
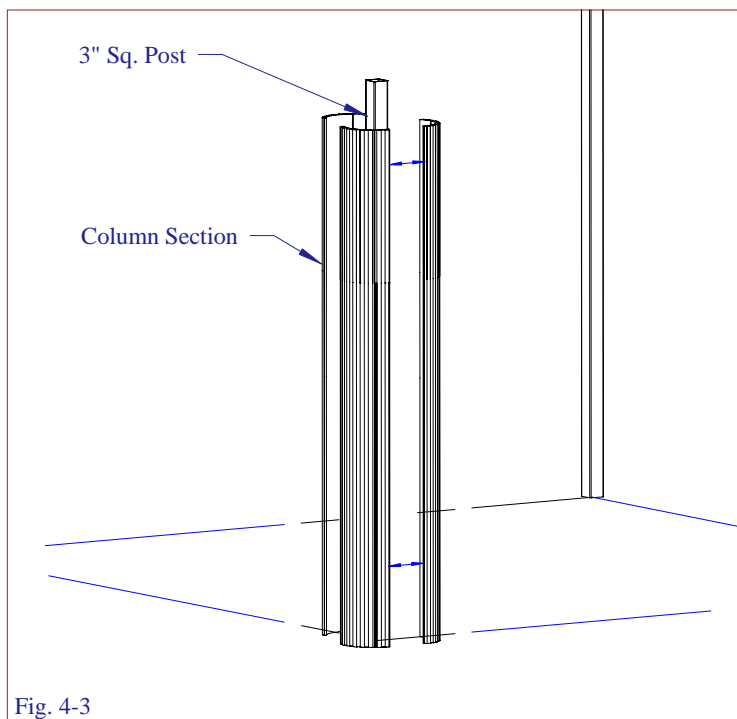
Fig. 3-4

## STEP 4 - COLUMN SETUP: SQ. or ROUND ALUM. COLUMNS

Snap two column sections together by fitting tongue into groove and lightly tapping with heel of hand to lock. Once two sets of two sections are locked together stand them on end and snap the open ends together around a post (see Fig. 4-1). Anchor bottom of column with two lower column brackets, 6 - Plastic Lag Screw Inserts, 6 - 2" lag bolts into surface, and 6 - #8 x 3/4" Tek screws into column (see Fig 4-2). Once column sections are secure slide the lower column cap in place and attach to column with 4 - #8 x 3/4" Tek Screws.



Round columns should be snapped together by inserting the small hooks into the large hooks on the long ends of the column sections. Keep one joint open and wrap the adjoined sections around post (see Fig 4-3). Lock final joint. (Note: The final joint should be the shortest of the large hooks.) Secure Column to surface with 3 'L' brackets, 3 - Plastic Lag Screw Inserts, 3 - 2" lag bolts, and 3 - #8 x 3/4" Tek screws (see Fig. 4-4). Once column sections or together slide the lower column cap in place and fasten to column with 4 - #8 x 3/4" Tek Screws.



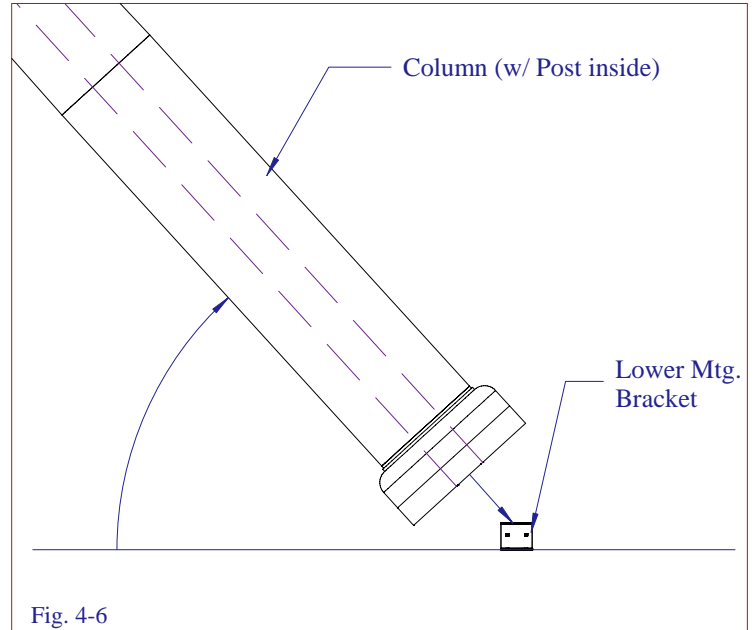
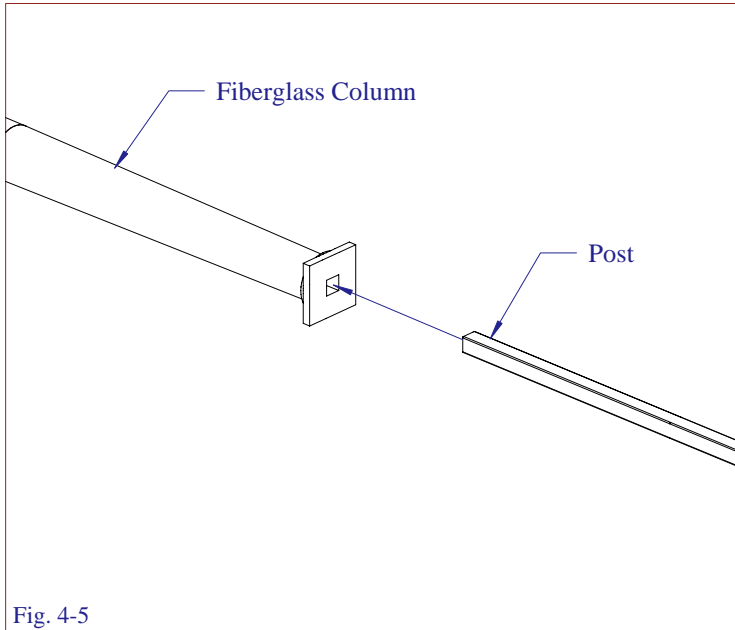
## STEP 4, CONT. - COLUMN SETUP: FIBERGLASS COLUMNS

Before installation, fiberglass columns must be painted. See bottom of page for color matching formulas. **TIP:** Before painting, sand column lightly with 120 grit or finer wet/dry sandpaper. Use mineral spirits to remove all dust and dirt.

Start by applying construction adhesive around lower round surface of cap, and position cap onto column. Measure overall required length from top of cap and trim bottom of column as needed. Column should be slightly longer for a snug fit. Position base cap on column, then temporarily stand column in position and plumb with level. With cap and base in proper position, mark exact mounting location with a pencil. Next, lay column down and continue with proper option.

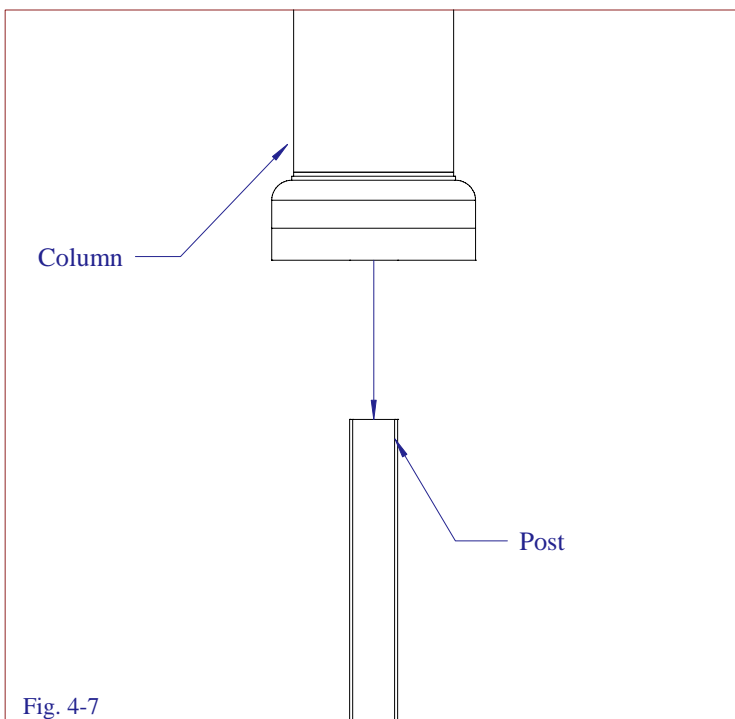
### Option 1 - Lower Mounting Brackets

If your pergola has standard lower mounting brackets, just anchor them at the intersection of two centerlines (Fig. 3-1), drill 4 - 3/8" dia Holes and embed 4 - Lag bolt Inserts. With 4 - 1 1/2" Lag Screws, attach brackets to concrete (Fig. 3-2). Next, apply construction adhesive to the top of cap and bottom surface of column, place post through column, and place the two onto mounting bracket (Fig. 4-6). Prop up the column and attach post to bracket with 4 - #10 x 1 1/4" Tek Screws (Fig. 3-2).



### Option 2 - Buried Posts

If you plan to bury your posts, do so as instructed in Step 3. Once posts are installed, apply construction adhesive to top of cap and bottom surface of column. Next, the fiberglass column must be hoisted over the post and placed around it (Fig. 4-7).



**WARNING:** Standard 8'-0" x 8" rd. fiberglass column weighs approx. 60 pounds. Installation may require more than one person.

### Color Matching Formulas

Lowes - Valspar Paint 1 gallon  
Exterior/Latex/Semi Gloss/Daylight

White  
Base B1-20015  
101 5 shot  
103 1/2 shot  
107 4 shot

Wicker  
Base B1-20015  
101 18 shot  
107 25-1/2 shot  
109 3-1/2 shot

Adobe (Clay)  
Base B2-20036  
101-(1y oz) 45-1/2 shot  
104-(1y oz) 12-1/2 shot  
111-(1y oz) 32 shot

Latte  
Base B1-20015  
101 37-1/2 shot  
107-(2y oz) 19-1/2 shot  
109 17-1/2 shot

## STEP 4, CONT. - COLUMN SETUP: SIDE POST PLATES

If your pergola has side plates, start by cutting the plates to the proper length. The plates must be 8" less than the post length above the grade. Next, drill 5/8" diameter holes through the side plates beginning 12" up from the bottom with one hole every 24" (see Fig. 4-8). Center two side plates per post against the post; the headers will rest directly on top of the side plates. Anchor the plate's inside face to the post through the holes with #10 x 1 1/4" Tek Screws. Insert the 5/8" hole plugs into the outside face of the plate (see Fig. 4-9).

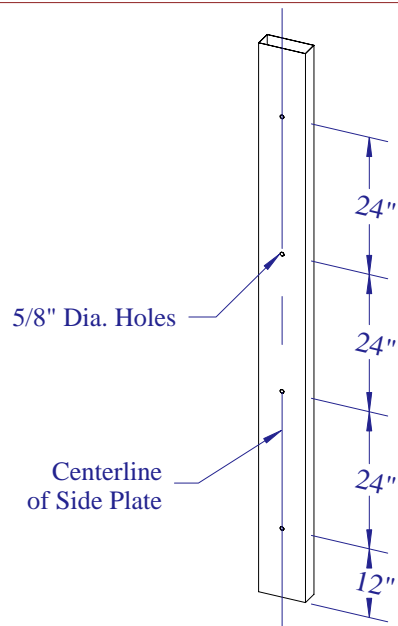


Fig. 4-8

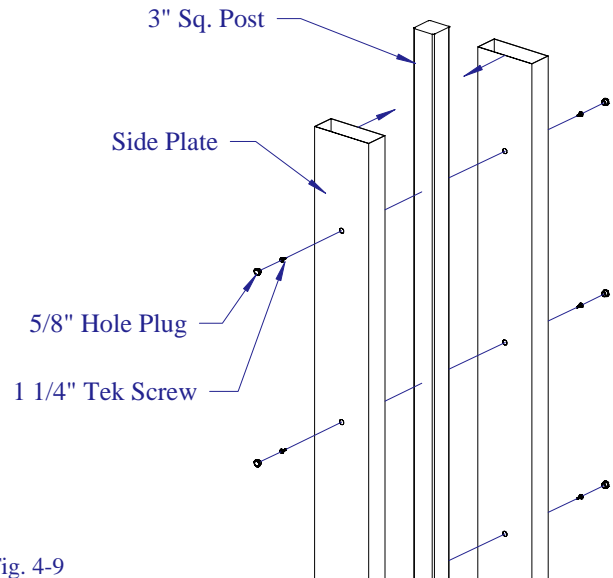


Fig. 4-9

When finished, the assembly should look like that shown in Fig. 4-10.

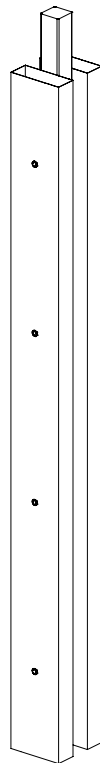


Fig. 4-10

## STEP 5

Assemble upper column cap and secure to column with 4 - #8 x 3/4" Tek Screw. Slide the column plate over 3" post and insert into top of column cap. Secure plate to cap with 4 - #8 x 3/4" Tek Screws, but be careful not to over torque (see Fig. 5-1). Hoist headers onto top of columns. Be sure to center headers over column measuring the overhang from end of header to center of post. Attach headers to post by drilling a 5/8" dia. hole in outer face of header and secure inner face to post with 2 - #5 x 1-1/4" Tek Screws. Cover the 5/8" holes with the provided hole plugs (see Fig. 5-2).

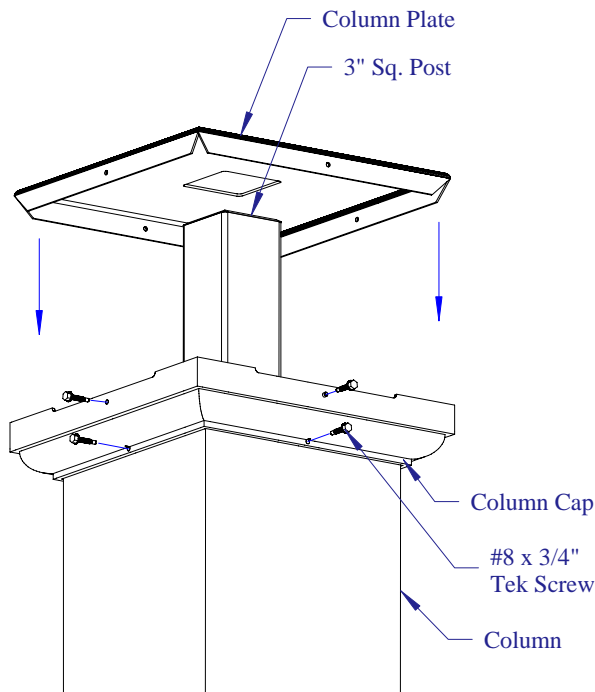


Fig. 5-1

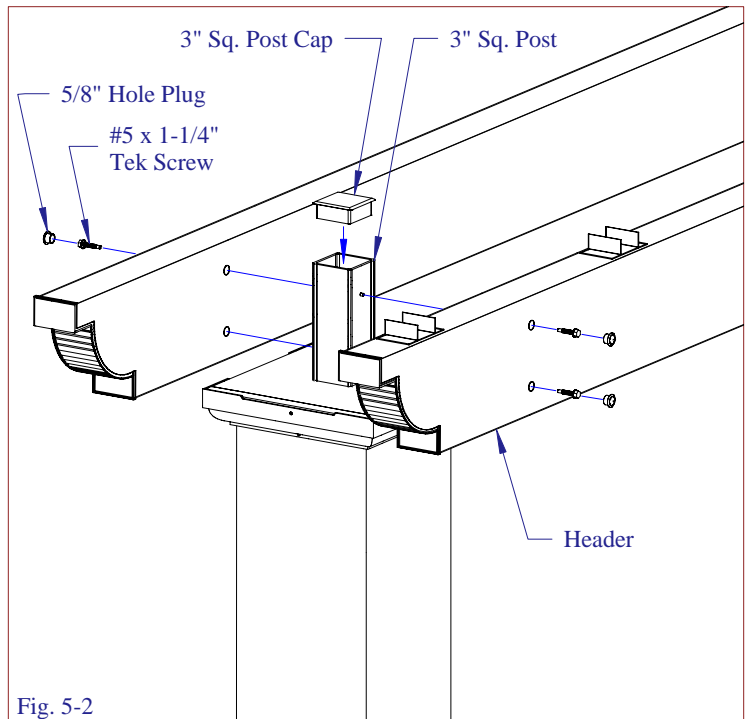


Fig. 5-2

## STEP 6

Begin anchoring the rafters by centering them over the adjacent headers and measuring the proper overhang from end of rafter to center of post. Secure the rafters to the rafter brackets with 2 - #8 x 3/4" Tek screws per side (see Fig 6-1).

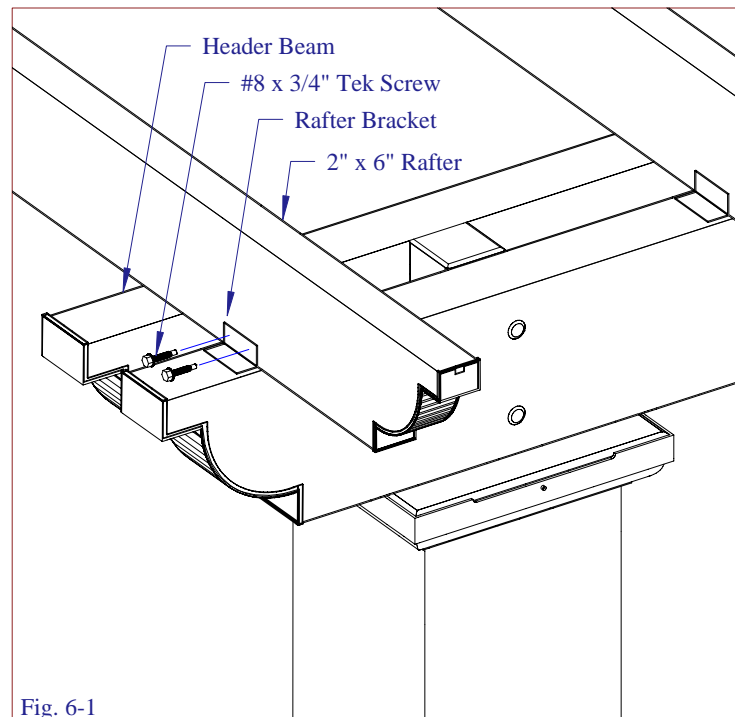


Fig. 6-1



## STEP 7

If the lattice tubes require splice insert the splice into an end of two tubes and secure with 2 - # 8 x 3/4" Tek screws. (see Fig. 7-1). Layout lattice on rafters seam side up. For lattice spacing details, see Fig. 7-2. Lattice O.C. will most likely be 4 1/2". The distance from centerline of rafter to end of lattice is equal to "Dim. A" in Fig 2-1.

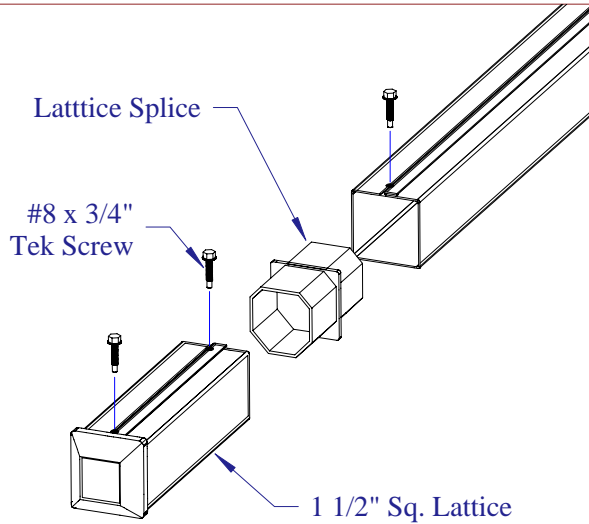
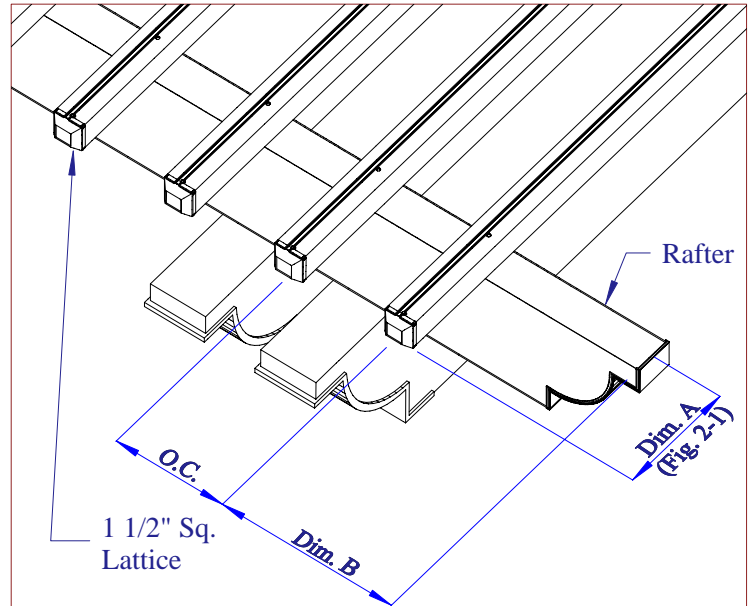


Fig. 7-1



$$\text{Dim. B} = \frac{\text{Rafter Length} - [(\text{No. of Lattice} - 1) \times \text{On Center (O.C.)}]}{2}$$

Fig. 7-2

Finally, secure the 1 1/2" sq. lattice to rafters with 2" stainless steel sheet metal screws (see Fig. 7-3).

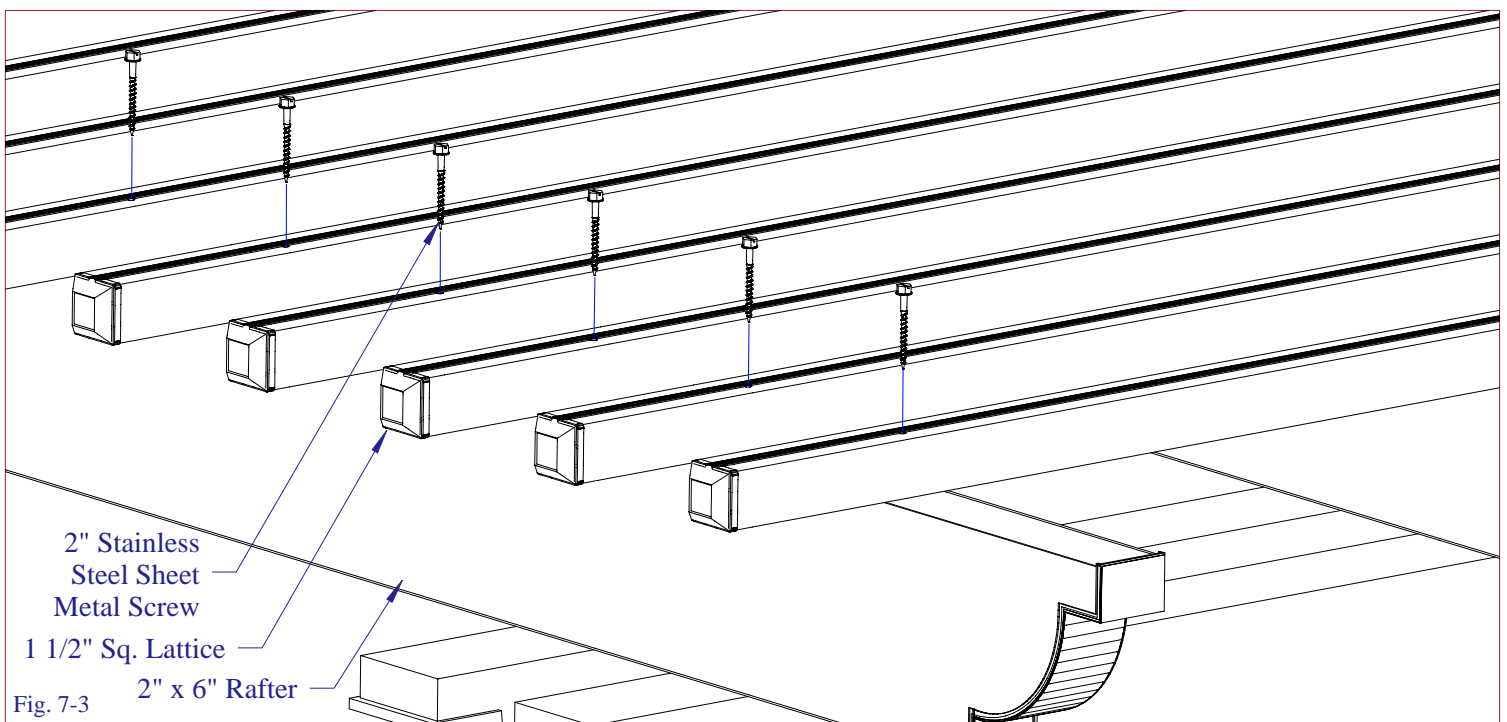
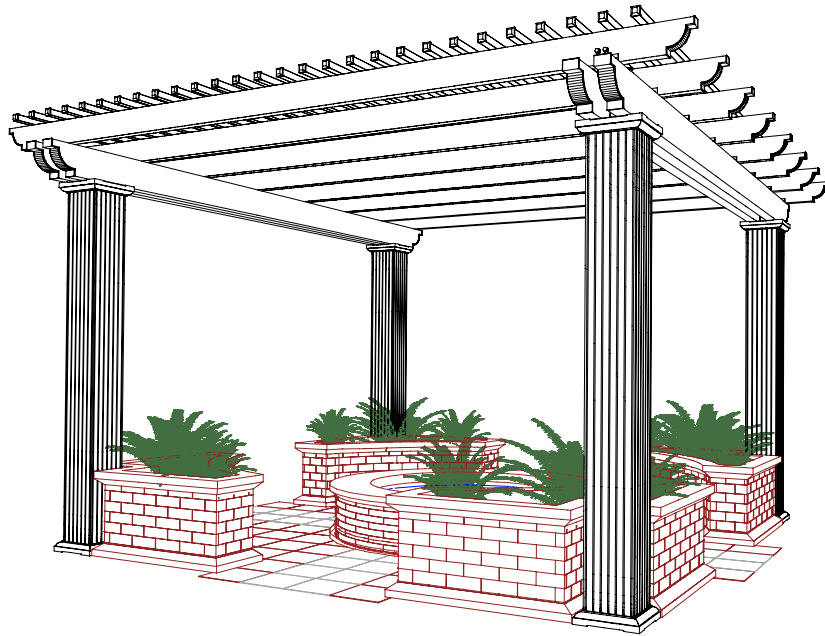


Fig. 7-3

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NOTES