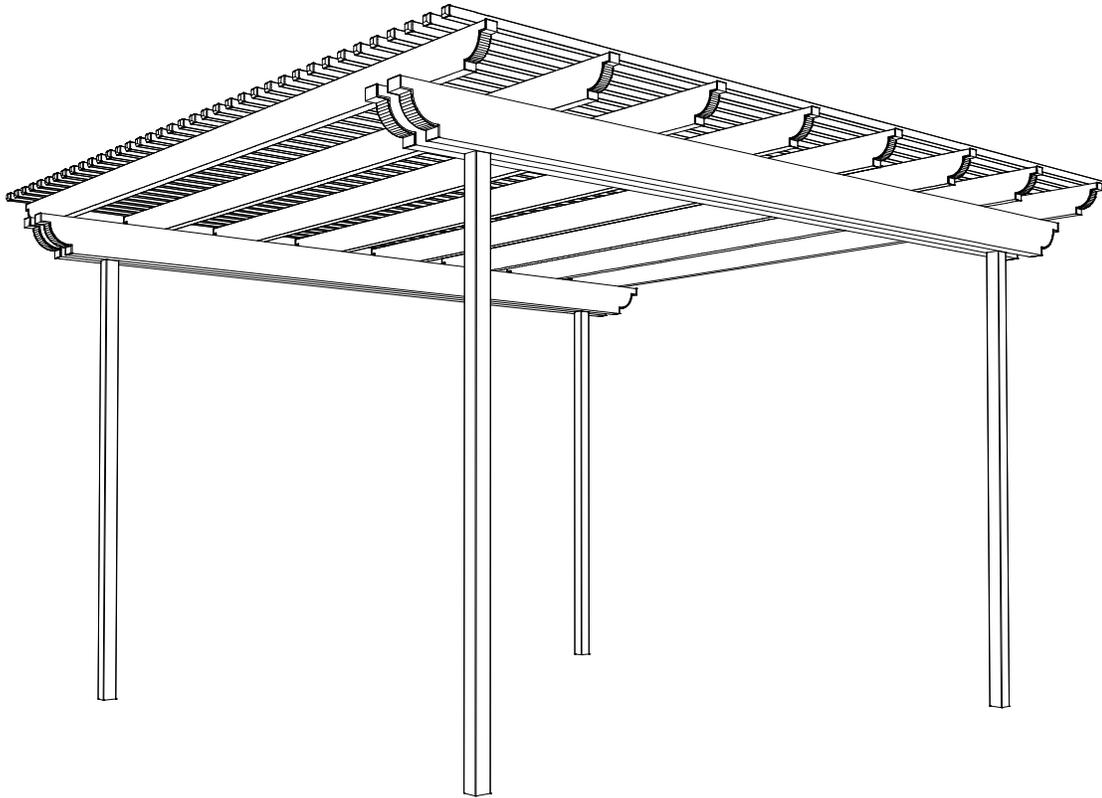




FREESTANDING DOUBLE HEADER PERGOLA ASSEMBLY INSTRUCTIONS



Before You Begin:

- 1) Please read all instructions and notes carefully. Check the Parts List or Bill of Materials for any missing parts and gather necessary tools. To prevent scratching of painted materials, place on a tarp, paper, or other protective material.
- 2) You may be required to obtain a building permit for this structure from your local building authority. Contact your local building department for details.
- 3) Note that this shade structure is not designed to carry additional loads such as hanging heavy plants, swings, people, or other objects.

Recommended Tools:

Safety Glasses, Tape Measure, Carpenters Level, Framing Square, Hex Head Nut Drivers, Chalk Line, Electric Drill w/ Bits, Pliers, Metal Hack Saw, Silicone Caulking, Regular and Phillips Screw Drivers

Note on Masonry Units:

If securing to stone, concrete, or other masonry unit, a masonry drill and bits may be required. You may also be required to purchase masonry anchor bolts, as the 1-1/2" lag screws provided will not be sufficient.

Note on Electric Drills:

We recommend lowering the speed of your drill during this installation. Installing Tek screws at a high rpm may cause the Tek screws to become damaged or break during installation.

Note on Cutting and Drilling:

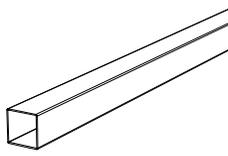
Cutting and drilling will cause metal shavings. These shavings must be carefully removed by sweeping or brushing. If this is not done, the metal shavings will quickly rust and stain the surface finish.

If you have any questions during installation, please call us at 1-800-851-0865

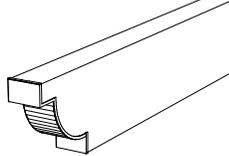
Rev. - 4/08/12

DOUBLE HEADER PERGOLA PARTS LIST

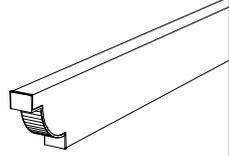
Contact us at:
1-800-851-0865 or
www.americana.com



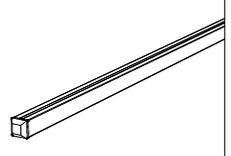
1. 3" x 3" Post



2. 3" x 8" Header



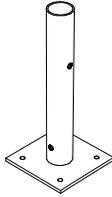
3. 2" x 6" Rafter



4. 1.5" x 1.5" Lattice



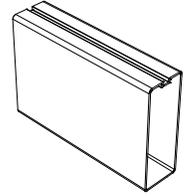
5. Post Mounting Bracket



6. Heavy-Duty Post Mounting Bracket (Optional)



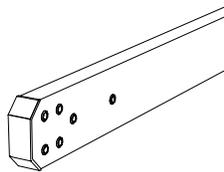
7. Rafter Mounting Bracket



8. Header Splice (Optional)



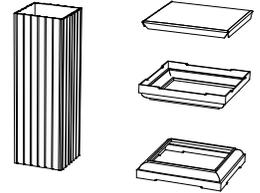
9. Lattice Splice (Optional)



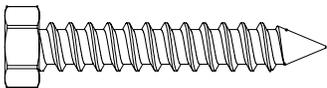
10. Post Side Plate (Foam Filled) (Optional)



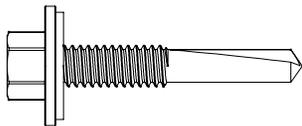
11. 5/8" Hole Plug (Optional)



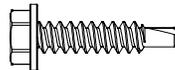
12. Column Wrap Kit (Square Shown) (Optional)



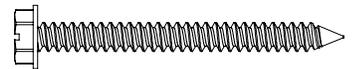
13. 1/4" x 1 1/2" Lag Screw



14. #12 x 1 1/4" HWH #5 Tek Screw



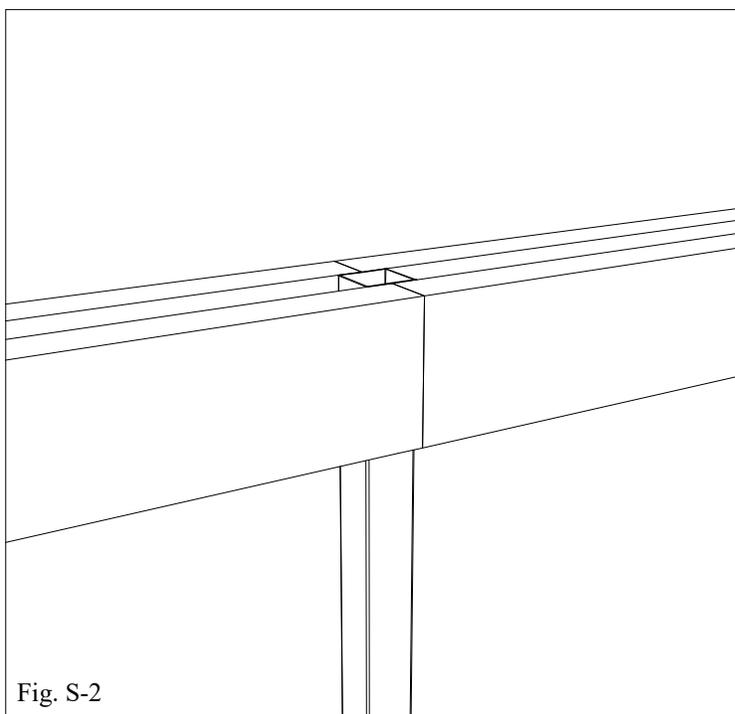
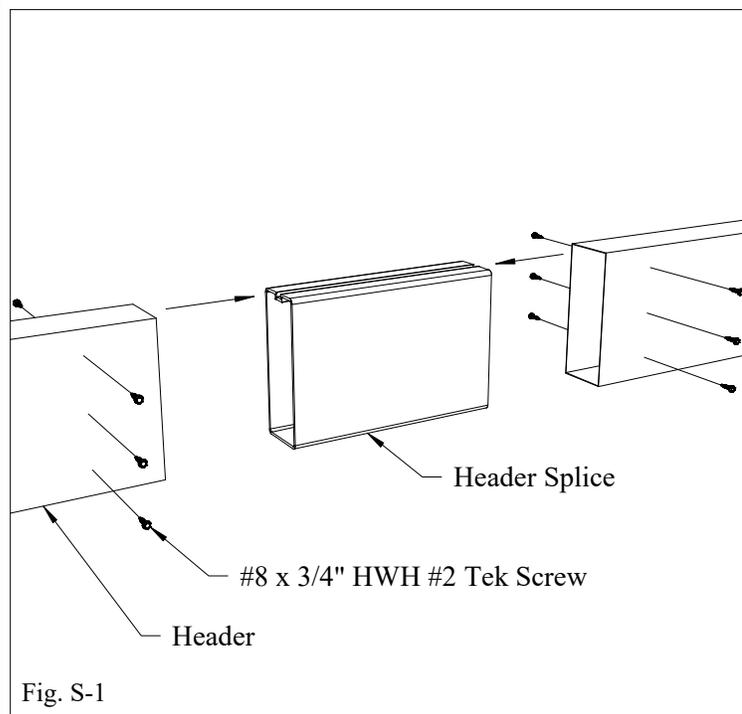
15. #8 x 3/4" HWH #2 Tek Screw



16. #10 x 2" Stainless Steel Sheet Metal Screw (SMS)

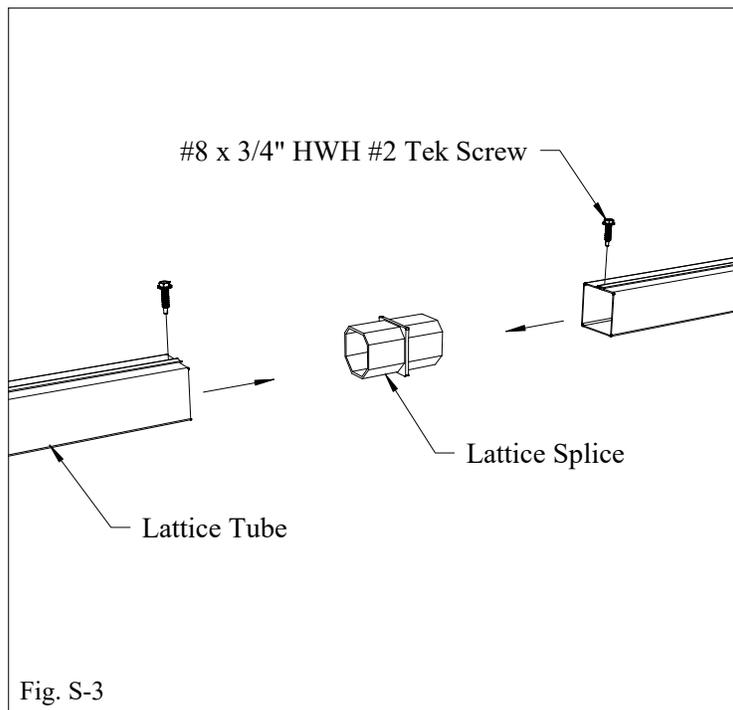
HEADER SPLICE (OPTIONAL)

- If the header is in two or more pieces, insert an equal amount of the provided header splice into each of the square ends of the headers and secure as shown using (12) #8 x 3/4" HWH #2 Tek Screws (see Fig. S-1).
- Be sure to place a post under the splice (see Fig. S-2).



LATTICE SPLICE (OPTIONAL)

- If the lattice is in two or more pieces, insert a lattice splice into the ends of two tubes and secure with (2) #8 x 3/4" HWH #2 Tek screws (see Fig. S-3).



STEP 1

-Determine the location for your pergola and mark the outer edges by snapping a chalk line the length of the 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 overall dimensions and snap four chalk lines accordingly (see Fig. 1-1). NOTE: If drawings were received with your order, use those as the guide.

NOTE: If installing fiberglass columns, complete the additional installation steps attached now and return to this step later.

-Depending on the available surface or local building codes, there are three post mounting options.

Option 1 - If your pergola has the heavy duty mounting brackets, anchor them at the intersection of two centerlines by drilling (4) holes for anchor bolts. Attach the bracket to the surface using (4) Tapcon anchor bolts.

Attach a post to each bracket using (2) 3/8" x 3 1/2" bolts (see Fig. 1-2). NOTE: If installing post side plates, only one bolt is required for the post to bracket connection. Run the bolt the same direction the header will run.

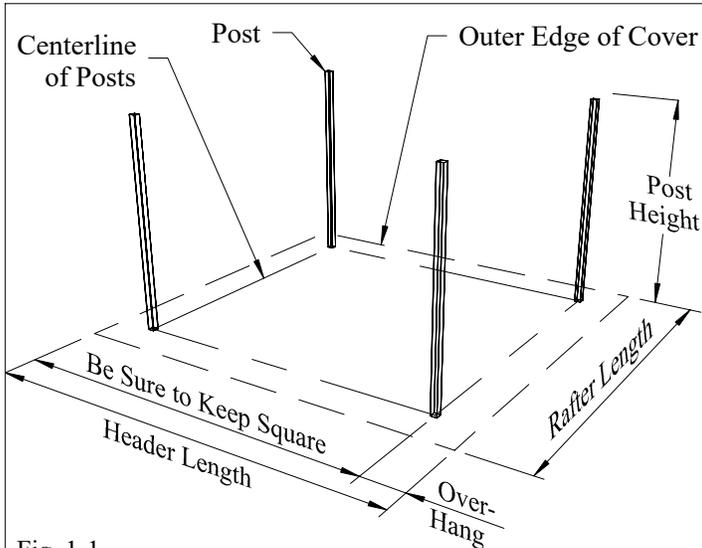
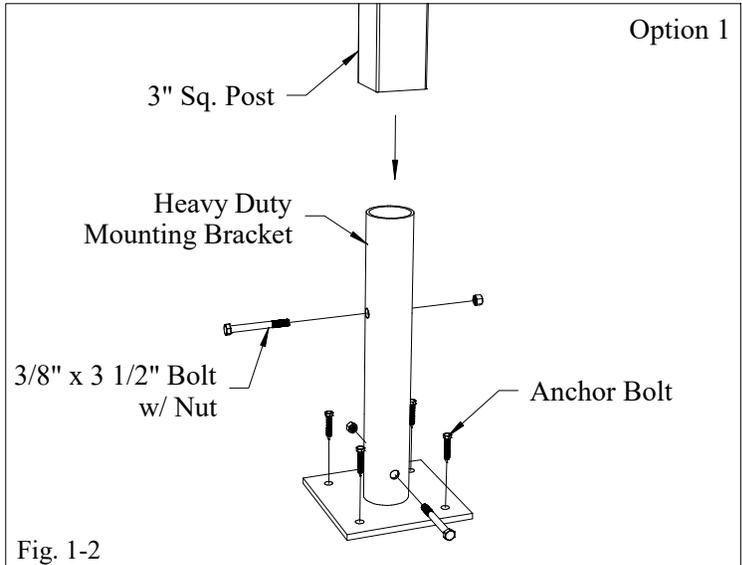


Fig. 1-1



Option 2 - If you plan to bury the posts, start by digging a hole appropriately sized. Footing must conform to local building codes. Use gravel or other shimming material to adjust post height. Fill the hole with concrete. Check the post on all sides with a carpenter's level to make sure it is plumb. (see Fig. 1-3). Tie the post in place and allow concrete to harden before continuing installation.

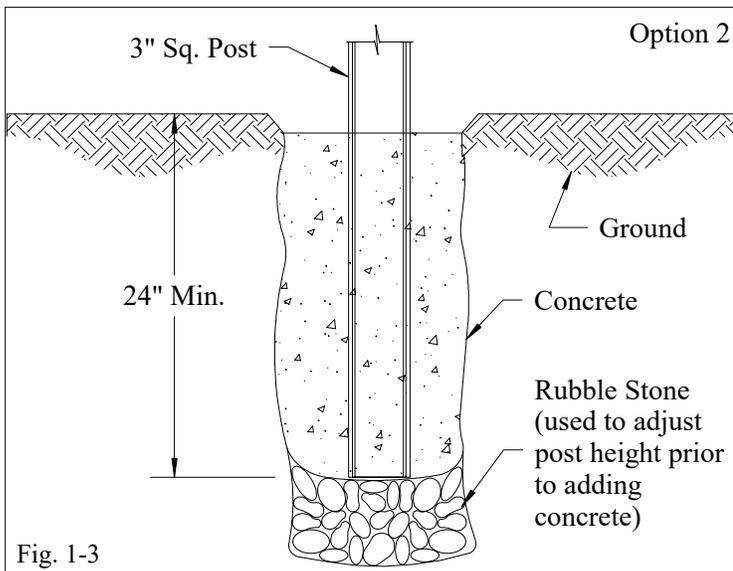


Fig. 1-3

STEP 2

-Calculate Distance A using the formula shown in Fig. 2-1. Subtract one from the number of rafters and multiply that by the center spacing of the rafters. Subtract that from the length of the header and divide by two.

EXAMPLE: You received a 10'-0" long header and five rafters. The standard rafter spacing is 24" on center.

$5 - 1 = 4$; $4 \times 24 = 96$; $120 - 96 = 24$; $24 / 2 = 12$; Therefore, Distance A = 12".

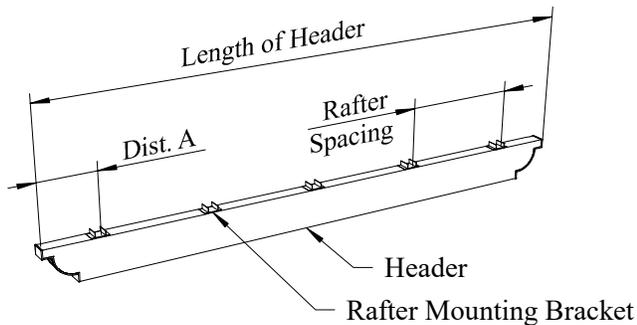
-Once you know Distance A for your project, position a rafter mounting bracket with Distance A between the end of the header and the center of the bracket (see Fig. 2-1).

-Attach the bracket to the seam side of the header using (4) #8 x 3/4" HWH #2 Tek screws (see Fig. 2-2).

NOTE: If the header is reinforced with a beam inside, #12 x 1 1/4" HWH #5 Tek screws must be used instead.

-Position the next rafter mounting bracket with the rafter spacing between the centers of the two brackets and attach as shown.

-Repeat for all rafter mounting brackets.



Dist. A =

$$\frac{\text{Length of Header} - [(\# \text{ of Rafters} - 1) \times \text{Rafter Spacing}]}{2}$$

Fig. 2-1

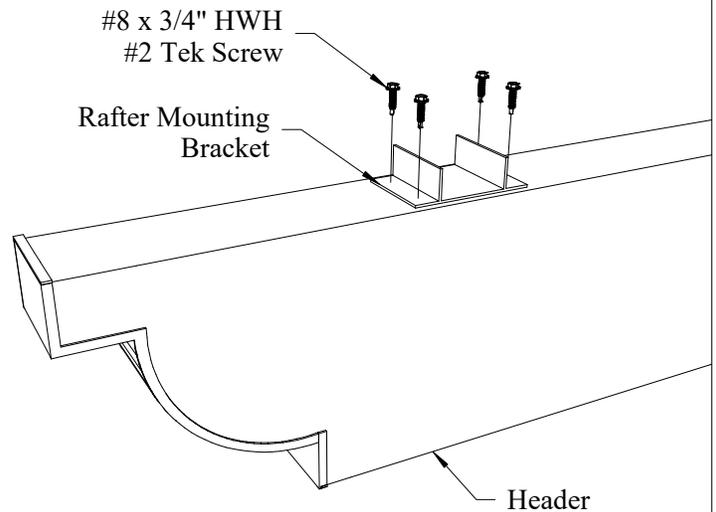


Fig. 2-2

STEP 3 - OPTIONAL COLUMN KITS: SIDE PLATES

-If your pergola has side plates, center two per post in front of the post along the header (see Fig. 3-1).

-Attach the inside face of the side plate to the post using #12 x 1 1/4" HWH #5 Tek screws through the pre-drilled holes.

-Also attach the side plate to the header at the top using (4) #12 x 1 1/4" HWH #5 Tek screws (see Fig. 3-2).

-Insert a hole plug into all exposed holes.

-Repeat for each side plate.

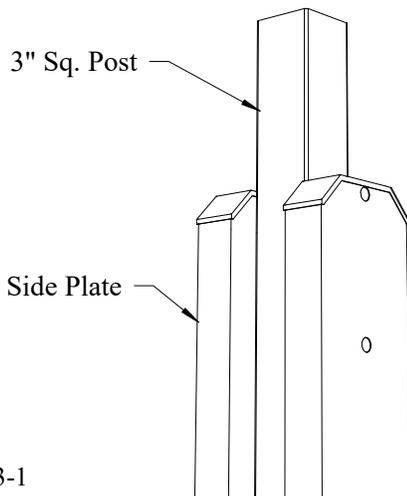


Fig. 3-1

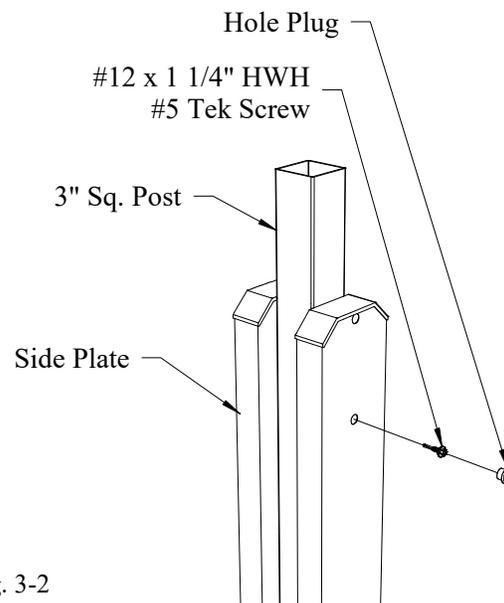


Fig. 3-2

STEP 4

- Mark the location of each post on the headers. Calculate Distance B as shown below if necessary (see Fig. 4-1).
- Drill (3) 5/8" holes through the outer face of the headers at each post location in the pattern shown (see Fig. 4-2).
- Attach the headers to each post through the holes using #12 x 1 1/4" HWH #5 Tek Screw (see Fig. 4-3).
- Insert a 5/8" hole plug into all exposed holes.

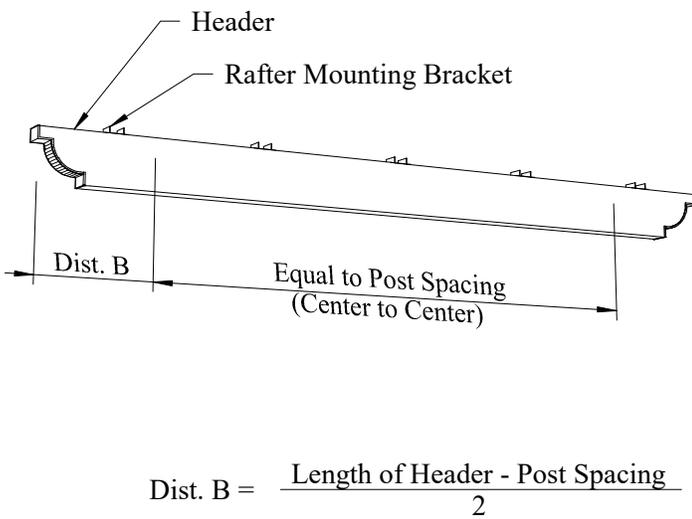


Fig. 4-1

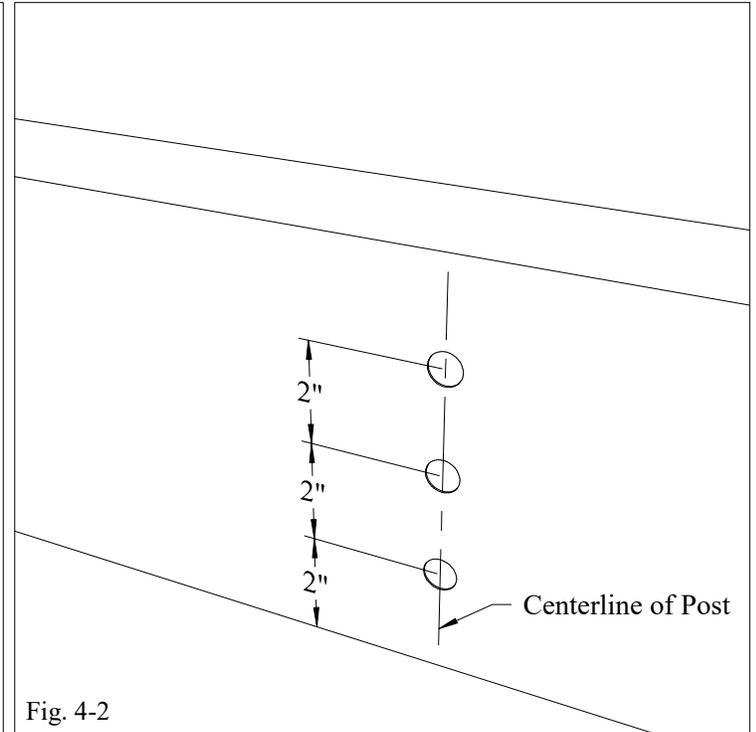


Fig. 4-2

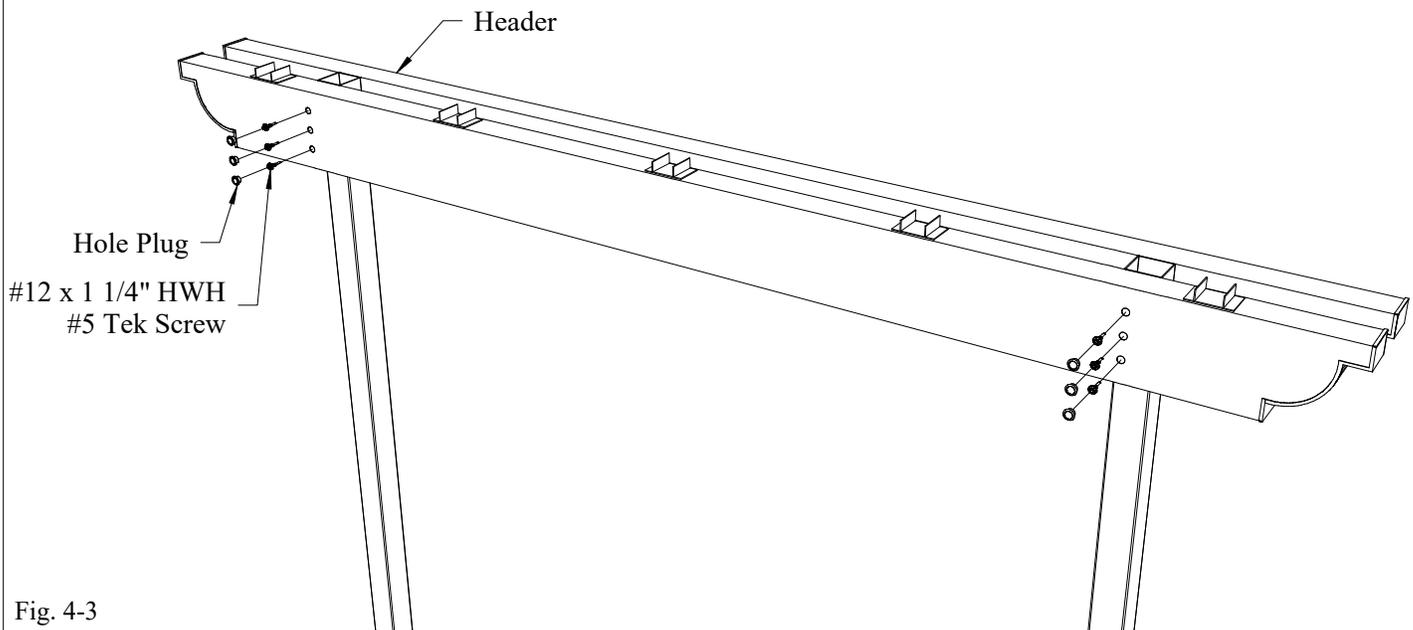
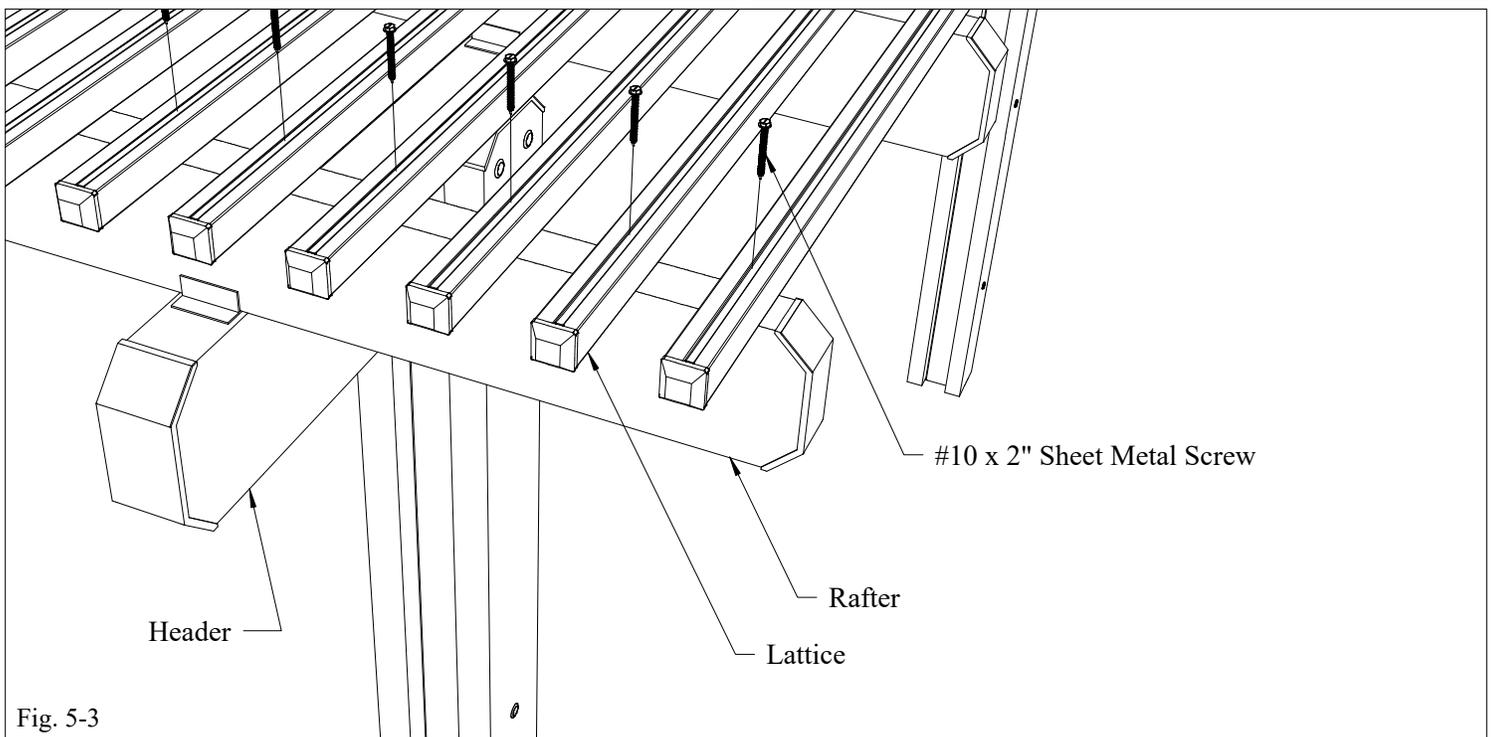
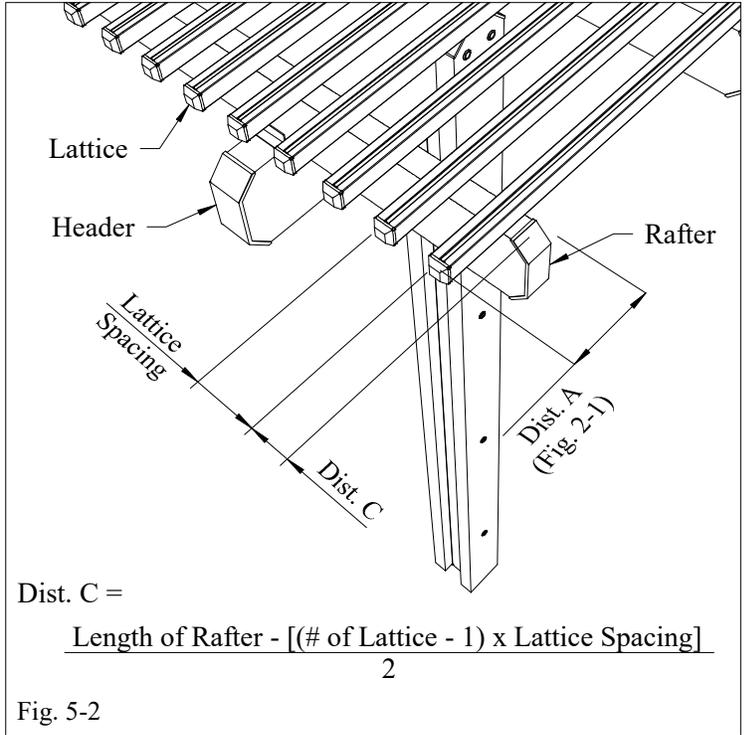
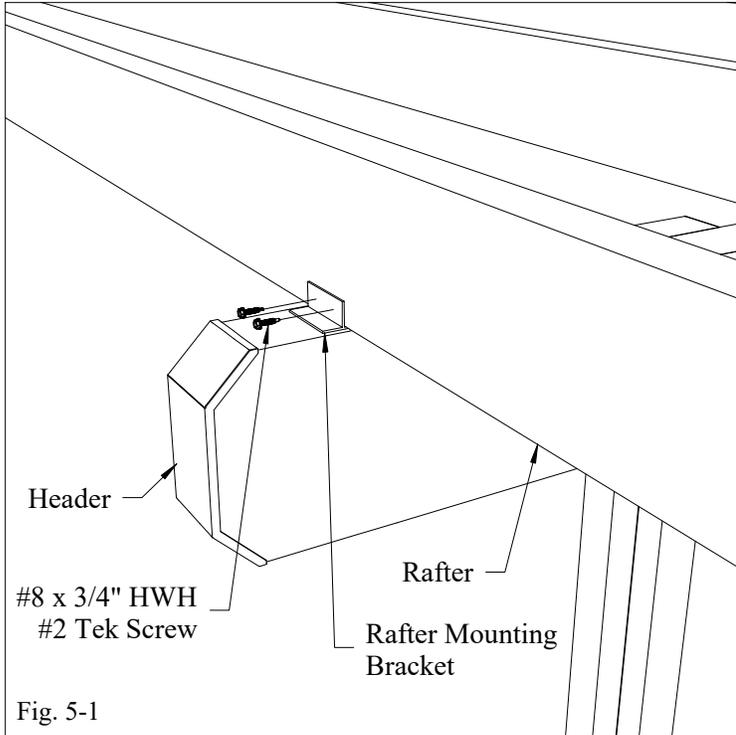


Fig. 4-3

STEP 5

- Determine the rafter overhang by subtracting the length of the rafters from the center to center distance between the posts along the projection and divide by 2.
- Mark the header locations on the rafters and position a rafter in each pair of rafter mounting brackets.
- Attach the rafters to the rafter mounting brackets using (4) #8 x 3/4" HWH #2 Tek screws per bracket (see Fig. 5-1).
- After all rafters are installed, layout the lattice tubes on the rafters with the seam side facing up. See Fig. 5-2 for lattice spacing details. Similar to how you determined Distance A in Step 2, subtract one from the number of lattice tubes and multiply that by the center to center spacing of the lattice. Subtract that from the length of the rafter and divide by two.
- The standard lattice spacing is 4 1/2" on center. If this is the case for your project, you might have received a short piece of 3" square tube. Simply placing this between two lattice tubes will give you the correct lattice spacing.
- Once a lattice tube is in the correct position, attach it to each rafter using #10 x 2" sheet metal screws (see Fig. 5-3).



OPTIONAL COLUMN KITS: SQUARE OR ROUND WRAP KIT (square fluted shown)

- Snap two column sections together by fitting the tongues into the grooves and lightly tapping with the heel of your hand.
- Once two sets of sections are locked together, stand them on end and snap the open ends together around a post (see Fig. 3-3).
- Anchor the bottom of the column with two lower column brackets and (6) anchor bolts into the surface, and (6) #8 x 3/4" HWH #2 Tek screws into the column (see Fig. 3-4).

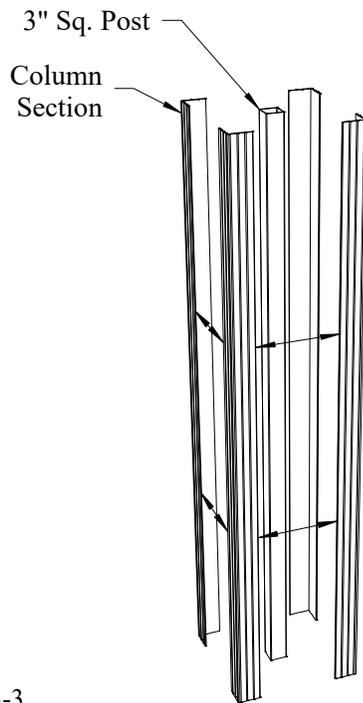


Fig. 3-3

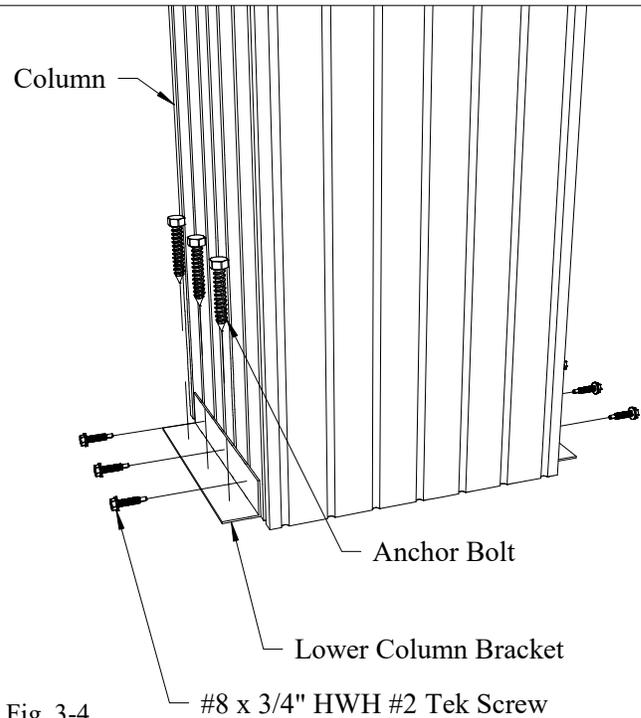


Fig. 3-4

- Once the column sections are secure, assemble a column cap around the bottom of the column.
- Attach the column cap to the column using (6) #8 x 3/4" HWH #2 Tek screws as shown (see Fig. 3-5).
- Assemble another column cap around the top of the column. Place the column plate over the post and drop it into the cap.
- Push the column cap up until the top of the column plate is 8" below the top of the post. Attach the column plate to the column using (6) #8 x 3/4" HWH #2 Tek screws (see Fig. 3-6).
- Attach the column cap to the column plate using (4) #8 x 3/4" HWH #2 Tek screws as shown (see Fig. 3-6).

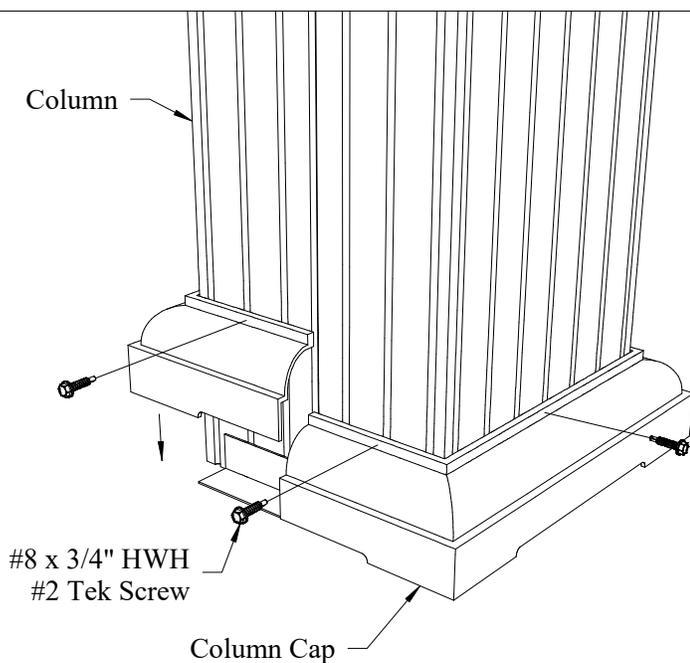


Fig. 3-5

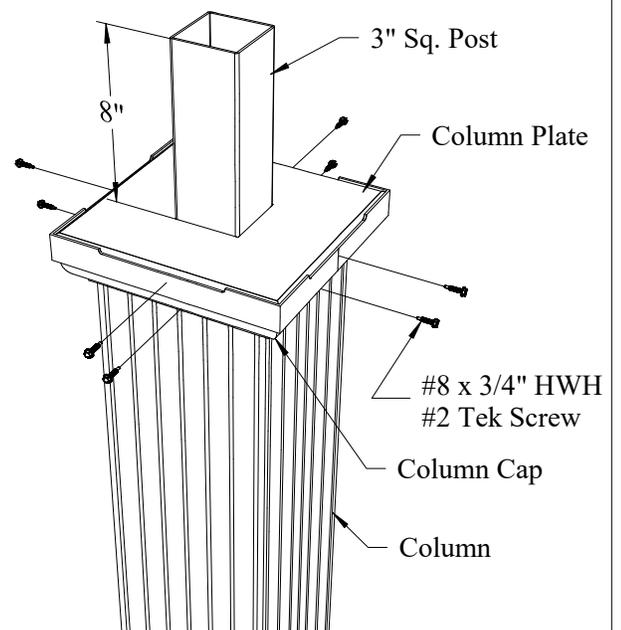


Fig. 3-6

OPTIONAL COLUMN KITS: FIBERGLASS COLUMN

NOTE: Before installation, fiberglass columns must be painted. See below for color matching formulas.

TIP: Before painting, sand the column lightly with 120 grit or finer wet/dry sandpaper. Use mineral spirits to remove all dust/dirt.

-Start by measuring the required height of the column. If needed, trim off the bottom of the column.

-Cut a notch on opposite sides at the top of the column 3" wide and 2" deep (see Fig. 4-11). This is to allow room to attach the post to the post top bracket. Notches will be covered by the column cap. NOTE: Notches required on single headers only.

-Slip the top and base column caps on the column. The top column cap may rest on the neck mold.

-Place the post inside the column and mark the exact mounting location. Apply construction adhesive on the ground in the area the bottom column cap will be. Continue with the proper option, depending of post mounting method.

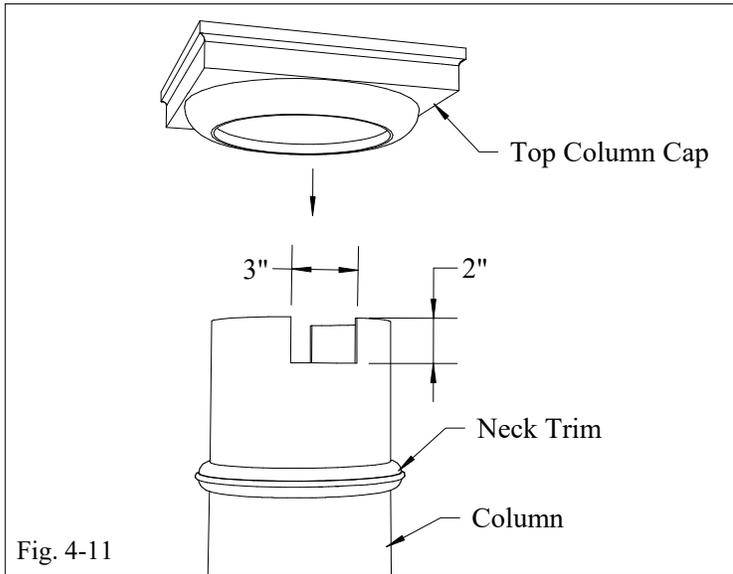


Fig. 4-11

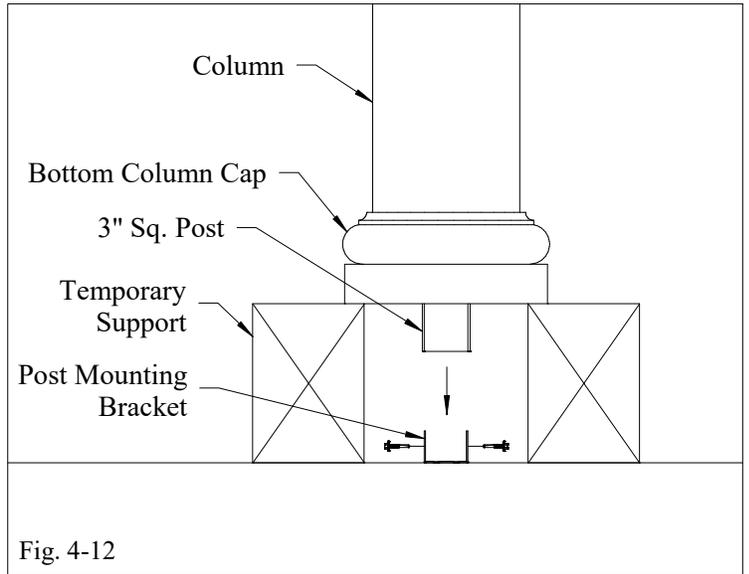


Fig. 4-12

Option 1 - If your pergola is surface mounted, anchor the post mounting brackets to the surface as shown in Fig. 1-2 or Fig. 1-3. Prop up the column using any type of support block as show in Fig 4-12. Let the post slide down and attach to the post mounting bracket as shown in Fig. 1-2 or Fig. 1-3. Remove the support blocks and anchor the bottom column cap.

Option 2 - If you plan to bury the posts, do so as instructed in Step 1 (see Fig. 1-4). Once posts are installed, hoist the column over the post and place around it. WARNING: Standard 8'-0" x 8" round fiberglass column weighs approximately 60 pounds; installation may require more than one person. Apply construction adhesive to the bottom surface of the column and anchor the bottom column cap.

-Once columns are installed, continue with installation from Step 2. After the header is attached (see Step 3), raise the top column cap and attach to the column plate using (4) #8 x 3/4" HWH #2 Tek screws (see Fig. 4-13).

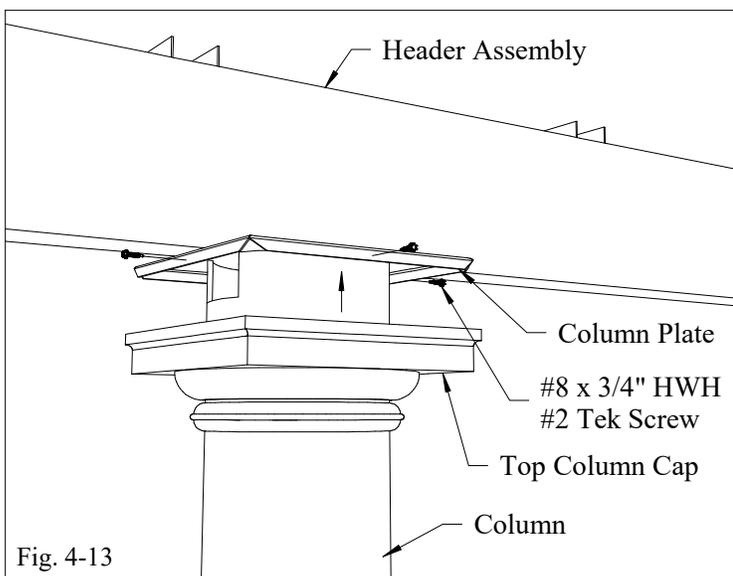


Fig. 4-13

Color Matching Formulas

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

White	Wicker
Base B1-20015	Base B1-20015
101 - 5 shot	101 - 18 shot
103 - 1/2 shot	107 - 25 1/2 shot
107 - 4 shot	109 - 3 1/2 shot

Adobe (Clay)
Base B1-20036
101 (1y oz) - 45 1/2 shot
104 (1y oz) - 12 1/2 shot
111 (1y oz) - 32 shot