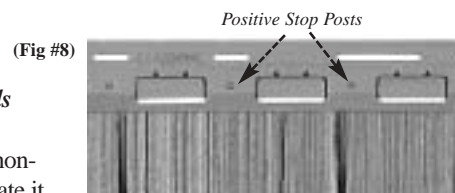


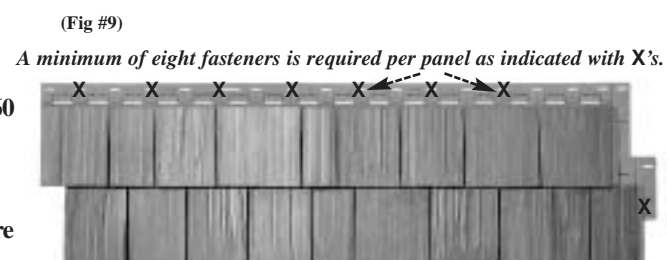
Shakes Installation

Step 6 Note: The Shake Accent Panel design incorporates positive stop posts 1/8" below the top edge of installation fingers. When installing succeeding rows of panels do not force the panels beyond the stop posts. The stops are designed to prevent buckling due to changing temperatures.

(Figure #8) The panel requires a minimum of eight fasteners per panel as shown. (Figure #9) The non-corrosive fastener must be installed into a solid substrate of no less than 7/16" thick and must penetrate it by no less than 1/2". When attaching the fasteners be sure they only lightly touch the panel allowing it to move with varying temperatures. The fastener must be installed flush with the panel, so as not to interfere with succeeding row of panels.



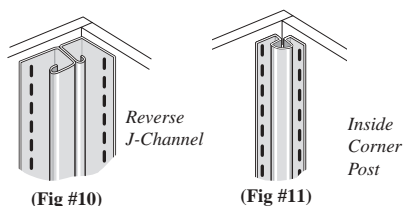
Step 7 Note that the average spacing between shingle seams within a panel is approximately 1/4". If the temperature is about 30 degrees F, position the panels so the shake seam between them is about 7/16" wide (blue spacing tool) to allow for expansion in warmer weather. If the temperature is about 60 degrees F, decrease the spacing to about 5/16" (yellow spacing tool) thereby allowing for both expansion and contraction as the temperature changes. If the temperature is about 90 degrees F, decrease the spacing further to about 3/16" (red spacing tool) to allow for contraction in colder weather. (See Figure #1 and table) Note: Fitting panels between windows, cornerposts, or around openings requires a cut-back spacing of approximately 1/8" to allow for product expansion. Once the panel has been properly spaced, insert a fastener into the center hole of the panel.



Step 8 Repeat steps four through seven until you get to the last two panels at the right. Do not install the center hole fastener in these last two panels until you have inserted the end piece into a corner piece or J-channel. Then reposition the last two panels to the proper shake seam spacing and install the two center fasteners. When completing a wall and a partial panel is used, remember to drill a new center hole and if face nailing is required, please refer to installation guideline #11.

Step 9 Alternate the start of each successive row of panels by 4 1/2" increments from the "A" cutting mark (Figure #6 on previous page) by cutting off this amount from the left side of the first panel of successive rows. Be sure the right end piece of the row is no less than 12" wide.

Step 10 J-Channels or inside corner posts may be used for inside corner treatments or you may scribe and cut panels to fit into corner. It is recommended to flash the corner with vinyl or aluminum coil prior to installation of panels. (Figure #10 and #11)



SHAKES INSTALLATION GUIDELINES

REMINDERS:

Some adjustment may need to be made at the vertical overlap of two corners (as they are installed) in order to maintain the corner/panel horizontal alignment. There is approximately a 1/2" vertical adjustment available.

Fitting panels between windows or around openings requires a cut-back spacing of approximately 1/8" to allow for product expansion.

ATTACHING OBJECTS TO PANELS

Never attach fixtures directly to Shake Accent Panels. When attaching fixtures, first drill a hole slightly larger than the diameter of the fasteners, allowing for expansion and contraction.

Note: fasteners for fixtures must penetrate the solid substrate.

SPECIAL SITUATIONS AND SUGGESTIONS

SITUATION

1. Panels won't lock together side to side.
2. Bottom rail will not engage into fingers of previous row.

ITEMS TO CHECK

The wall may not be level and flat. Check previous panels to ensure that all panels and installation fingers are properly seated. (See Installation Guidelines)

1. Panels are buckling on the wall.
2. Panels are not laying down flat.

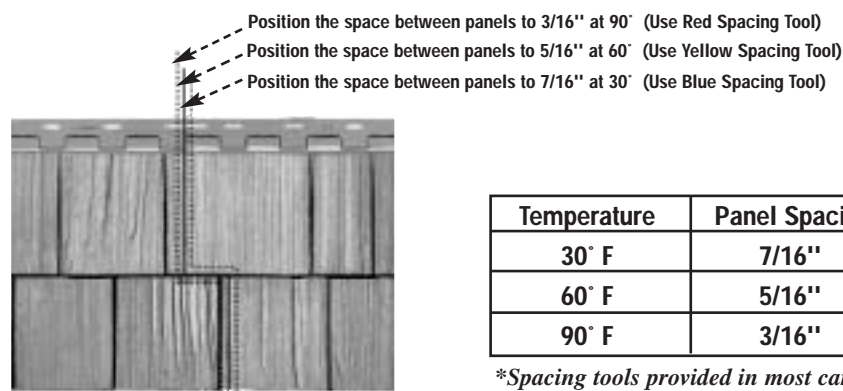
Make sure the nails are not restricting panel movement. Check for proper spacing at side interlocks. Make sure all fingers are engaged into previous panel.

Shakes Installation

Installation Guidelines

Shake Accent Panel Installation Guidelines

1. Always work from left to right, completing installation on one wall before beginning another. Always start at the lowest point of the structure.
2. Shake decorative accent panels will expand and contract with a change in temperature. Therefore, during installation it is necessary to position the panels properly to compensate for temperature effects. Note that the average spacing between shake seams is approximately 1/4". **If the temperature is about 30 degrees F, position the panels so the shake seam between them is about 7/16" wide to allow for expansion in warmer weather. If the temperature is about 60 degrees F, decrease the spacing to about 5/16" thereby allowing for both expansion and contraction as the temperature changes. If the temperature is about 90 degrees F, decrease the spacing further to about 3/16" to allow for contraction in colder weather. (See Figure #1 and table) Note: Fitting panels between windows, corner posts, or around openings requires a cut-back spacing of approximately 1/8" to allow for product expansion.** Use caution not to force panels up into the fingers of the lower row, as this will override the expansion joints and may cause buckling. Storing panels in heated areas make them more pliable, allowing for easier installation in colder temperatures. **Store panels on edge with carton arrows pointing up and down.**



Temperature	Panel Spacing	Spacing Tool
30° F	7/16"	Blue
60° F	5/16"	Yellow
90° F	3/16"	Red

*Spacing tools provided in most cartons.

Fig.1

3. **After positioning the panel at the proper spacing for the installation temperature, install a nail or fastener in the center hole of the panel.** By attaching a fastener through the center hole, the panel will move evenly from the center out. (Figure #2)

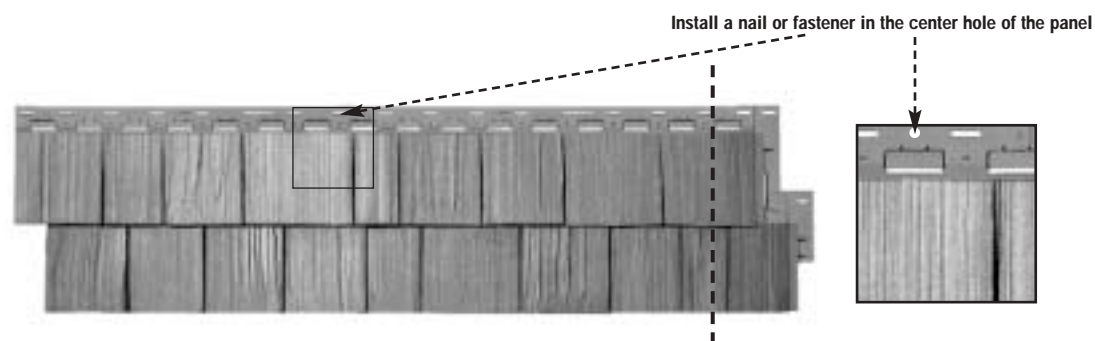


Fig.2

4. **If a partial panel is used to finish a course on the wall, a new center hole should be created.** Measure and cut the required panel length. (NOTE: The cut should be made off the right panel end). Drill an 1/8" hole in the top flange, near the center of the cut at the same height as the other installation holes. (Figure #3)

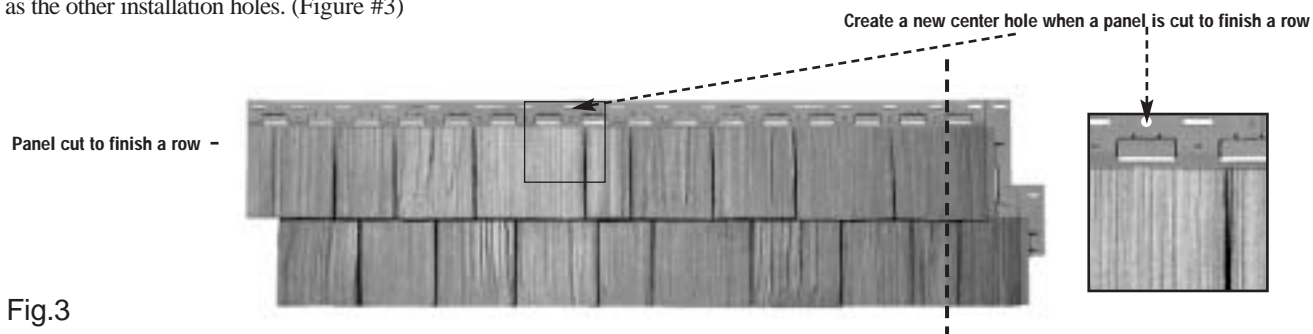


Fig.3

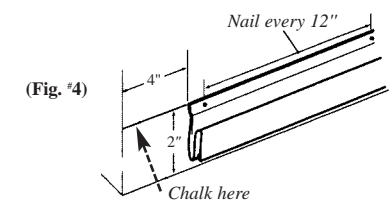
Shakes Installation

Installation Guidelines

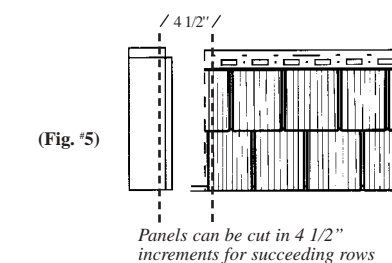
5. To ensure color, do not mix dye lots on the same wall. All cartons are marked with a dye lot number (code) on the label.
6. Shake accent panels are intended for use in a vertical placement only, and are not designed or warranted for roofing or flooring applications. Mansard roofs with a 9/12 pitch or greater are acceptable applications (with proper sheathing protection and flashing).
7. It is essential that you work over a smooth, flat, nailable wall surface, (i.e. 7/16" or thicker OSB board or plywood is recommended). If furring strips are utilized, the area between the furring strips must be filled to ensure a flat and level surface.
8. Plan ahead since the size of your **non-corrosive fasteners** may vary from job to job. Fasteners used to secure Shake Accent panels must penetrate a solid substrate by at least 1/2".
9. **Foil-faced materials are not acceptable for use with Shake Decorative Accent Panels and will void the warranty. A light-colored, "breather-type" house wrap is recommended.**
10. Panels are acceptable for interior applications, except **in places of extreme heat** such as around a fireplace or behind a stove.
11. In areas where face nailing is necessary, pre-drill a hole in an inconspicuous area, such as a shingle seam. The hole must be larger than the shank of the nail or screw, but smaller than the head, to allow for expansion. The head can be covered with matching paint.
12. Fastening of the panels should be done in a manner that does not restrict panel movement. Fasteners should be driven straight into the center of the hole making light contact with the panel, allowing the panel to be hung. It is best to work with the panels at waist-level, allowing the installer to inspect the back of the panels, **verifying that all fingers are properly engaged.**

Installation Steps

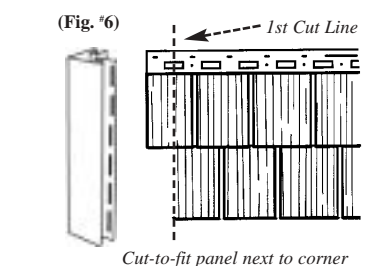
Step 1 Install the starter strip at the lowest point of the structure. The strip should be positioned 4" from the wall corner allowing for the width of the corner piece. (Figure #4). Nail the starter strip every 12". Make sure the starter strip remains level.



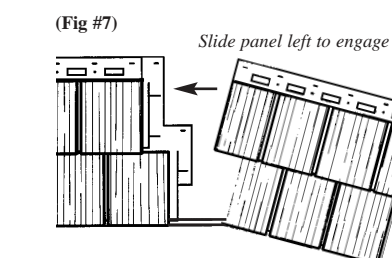
Step 2 Determine the number of panels needed for the wall by dividing the total length of the wall in inches, less the width of the corner post or J-Channel used, by 54". Be sure the end piece is no less than 12" wide. You may have to adjust the size of the starting panels to accommodate this end piece. From reference line "A" or the panel, cuts can be made anywhere on the panel in increments of 4 1/2". Be sure not to overlap the seams of the panel below to ensure a pleasing and authentic shingle look is maintained. (Figure #5) Do not cut more than one end piece at this time since adjustments will be required for succeeding rows.



Step 3 Working from left to right, install the first corner post or J-Channel approximately 3/8" below the bottom edge of the starter strip. Slide the first panel left, allowing a 1/8" gap in the corner post receiving channel. (Figure #6) By attaching a fastener through the center hole, the panel will move evenly from the center out, minimizing the amount of expansion and contraction at either end. (See Figure #2 on previous page) **After positioning the panel, install a nail or fastener in the center hole of the panel.**



Step 4 When installing the remaining panels of this row, it is easier to install the Shake Accent Panels by holding both hands at either end of the panel at the bottom. By dropping the right side of the panel at approximately a 45 degree angle it will be easier to engage the left side locking flange, and then carefully work your way to the right side of the panel, ensuring all fingers are properly engaged. (See Figure #7)



Step 5 By attaching a fastener into the center of the elongated holes on the top flange of the panels, you will have the flexibility to move the panels to adjust the shingle seam per step seven on the back page. This will also make it easier to install the end piece, either into a J-channel or corner post.