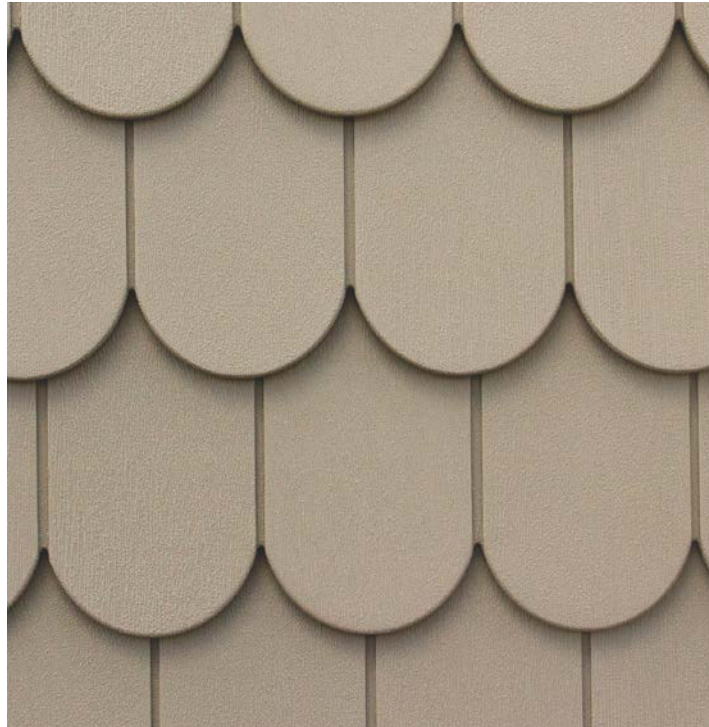




## Installation Guidelines

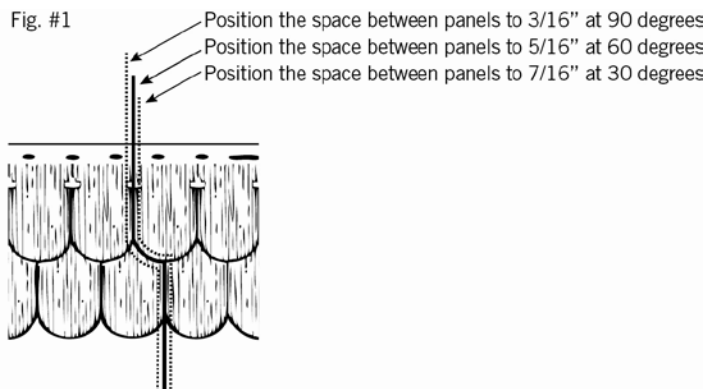


Tando Building Products provides these instructions as general guidelines only. Tando Building Products neither installs exterior cladding nor has any control over any installation. The contractor and/or installer shall be responsible for ensuring that all applicable local building codes are followed, which may require modification of these general guidelines. Tando Building Products assumes no liability for personal injury or property damage resulting from improper or careless application of the described techniques.

For more information on Tando Building Products and its wide variety of state of the art products, please call us at 844-MY-TANDO (844.698.2636) or write: 1111 NW 165 Street, Miami, FL 33169-5819. Installation Guidelines can be downloaded from our website: [www. Tandopb.com](http://www.Tandopb.com).

## BASIC GUIDELINES

1. Always work from left to right, completing installation on one wall before beginning another, always starting at the lowest point of the structure.
2. As with any plastic exterior building materials, Tando 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 shingle seams within a panel is approximately  $\frac{1}{4}$ ". Use caution not to force panels down onto the flange 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.



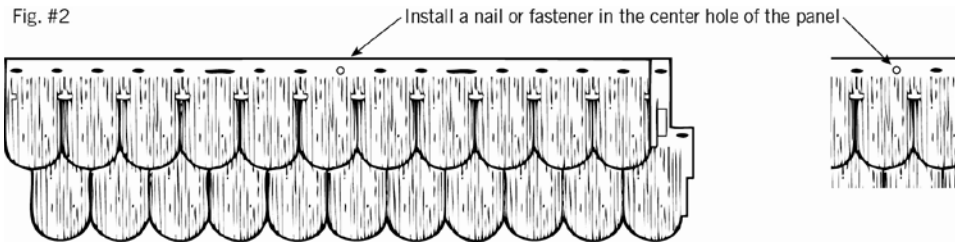
**Table 1**

TEMPERATURE	PANEL SPACING
30 Degrees F	$\frac{7}{16}$ "
60 Degrees F	$\frac{5}{16}$ "
90 Degrees F	$\frac{3}{16}$ "

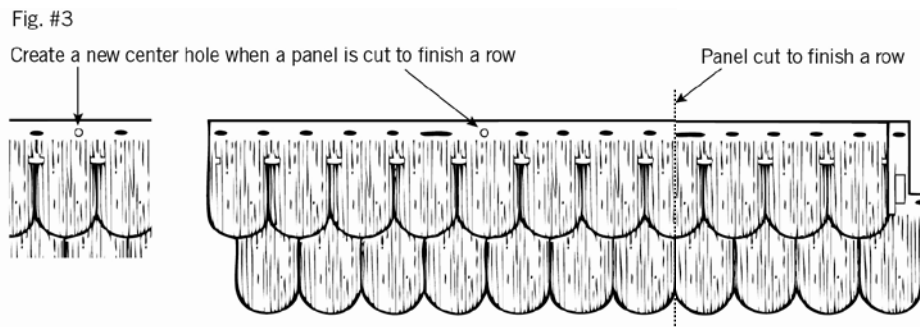
When installing in temperatures from 30 to 100 degrees Fahrenheit, position the next panel (See Figure 1) so that its upper left edge is on the spacing line. For installations at temperatures outside of this range, space the panels so that the upper left edge of the adjacent panels has a  $\frac{3}{16}$ " distance to the spacing line.

3. Store panels on edge, do not stack flat.

- 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 in both directions from the center out (Figure 2).



- If the panel is a partial panel used at either end, a new center hole should be created, by drilling a 1/8" hole in the top flange, near the center of the panel at the same height as the other installation holes (Figure 3).



- Tando 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 45/12 slope or greater are acceptable applications.
- It is essential that you work over a smooth, flat, nailable wall surface, (i.e., Minimum 7/16" OSB board or plywood is recommended). Refer to the respective furring strip installation guidelines if furring strips are utilized.
- Non-corrosive fasteners used to secure Tando panels must penetrate a solid substrate by at least 7/16".
- If face nailing is employed, 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 possible expansion. The head can be covered with matching paint.
- Fastening the panels should not restrict panel movement. Fasteners should be driven straight into the center of any elongated 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.

11. Tando has been designed as an exterior cladding, not a weather resistant barrier. Tando cladding is designed to allow the material underneath it to breathe; therefore, it is not a watertight covering. To achieve designed performance, Tando cladding must be installed over a weather resistant house barrier system such as house wrap.

### INSTALLATION STEPS

**STEP ONE:** Chalk a level line 1 3/4" above the top edge of the last course of the siding below (Figure 4).

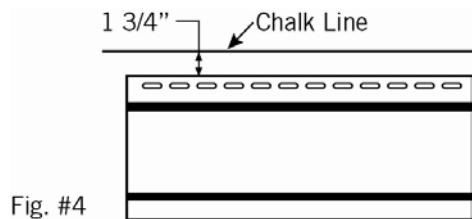


Fig. #4

Note: For panels with double nail hems, decrease the chalk line to 1 1/4" above the top edge.

**STEP TWO:** Install a minimum of 4 starter clips per full length panel, with the top edge of the clip level with the line drawn in Figure 5.

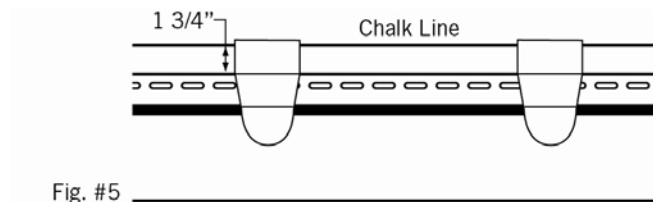


Fig. #5

Note: A minimum of 4 starter clips per full length panel is required for the first course only. Succeeding courses of panels will interlock with each other top to bottom.

**STEP THREE:** Cut the first panel so the left edge seats flush (Figure 6). Measure 7 1/2" from the left edge of the first scallop to the center of the clip. This will align the starter clip with scallop # 2.

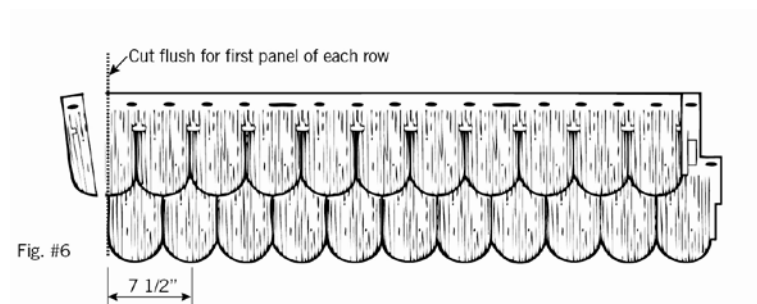
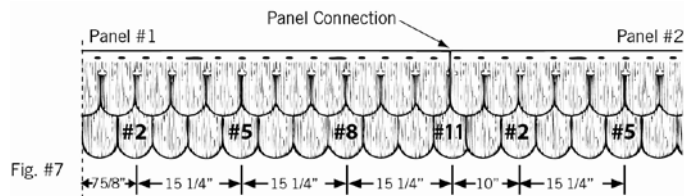
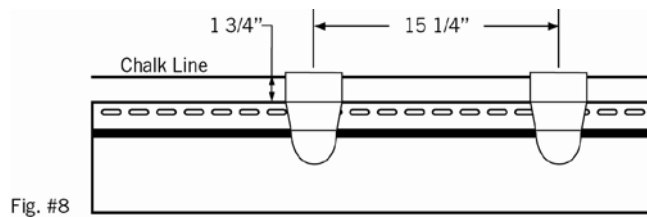


Fig. #6

**STEP FOUR** Working left to right, position and install starter clips on scallops #2, #5, #8, and #11. Do not use a clip on the first scallop, as it will interfere with installation. When transitioning from one panel to the other, the first starter clip on the new panel should be positioned 10" apart from the last starter clip on the preceding panel (Figure 7).

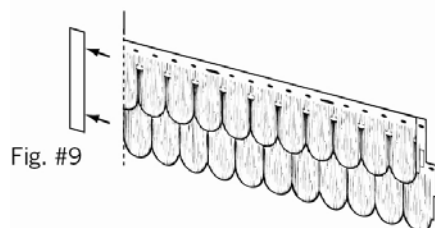


Note: Install the clip with non-corrosive nails or fasteners in all three holes to prevent the clip from moving. Spacing of starter clips left to right on a panel is exactly 15 1/4" from the center of the starter clip to the center of the next starter clip on a panel (Figure 8).



**STEP FIVE** Working from left to right, install the first Outside Corner Post or J-channel approximately 1/4" below the bottom edge of the starter clip, aligning it with the panel. Attach the first panel gently into the starter clip

**CAUTION:** Overriding the expansion joints restricts panel movement and may cause buckling. Slide panel left, butting to within 1/8" of the corner (Figure 9).



**STEP SIX** When installing any scallop product into another, hold panel on the left side and the top of the right side. Lower the bottom right corner of the panel about 45 degrees to ease installation (Figure 10).

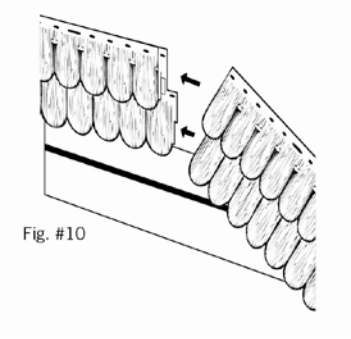


Fig. #10

**STEP SEVEN** The panel requires a minimum of eight fasteners per panel as shown (Figure 11). A closer spacing of fasteners is required for high velocity wind areas; for details refer to report ESR 3070, which can be downloaded from our website [www.Tandobp.com](http://www.Tandobp.com). The non corrosive fastener must be installed into a solid substrate of no less than 7/16" thick.

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 the succeeding row of panels.

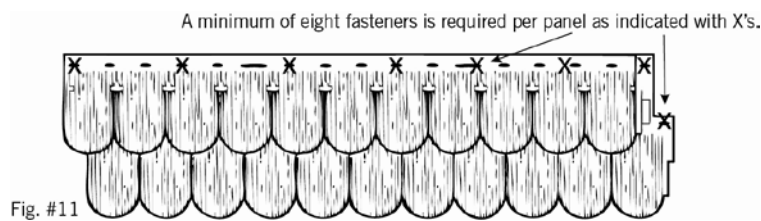


Fig. #11

**STEP EIGHT** Gently raise the right side of the panel engaging each of the fingers as you go, and ultimately locking the panels into place via the side interlocks (Figure 12). Follow this step for all succeeding panels.

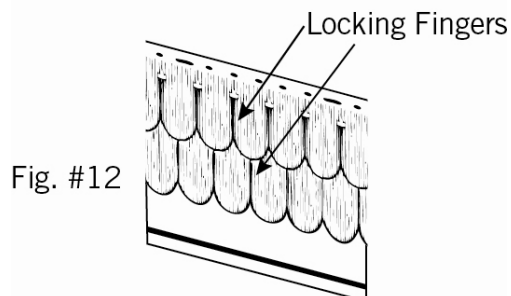
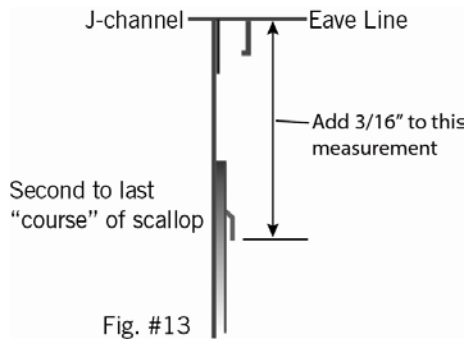


Fig. #12

**STEP NINE** Finish the top course of scallops with the following procedures:  
(a) Install J-channel at top of eave.

- (b) Measure height for top course panel from the bottom edge of the top locking mechanism to the inside top of the installed J-channel at the eave line. Add 3/16" to this measurement and cut the panel.
- (c) Drill pilot nail holes in the top cut edge panel to correspond with studs or suitable nail base sheathing. Nail holes should have a diameter slightly larger than the diameter of the nail shank in order to allow for expansion and contraction without buckling (Figure 13).



Note: Do not overdrive nails

#### 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 Tando cladding. When attaching fixtures, use a block and follow the fixture manufacturer's installation instructions.

#### SPECIAL SITUATIONS AND SUGGESTIONS

##### SITUATION

1. Panels won't lock together side to side
2. The bottom locking fingers won't lock into the previous row.
3. Panels are buckling on the wall.
4. Panels are not laying down flat.

##### 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 Basic Guidelines)

Make sure the nails are not restricting panel movement. Make sure all fingers are engaged into corresponding rails.