



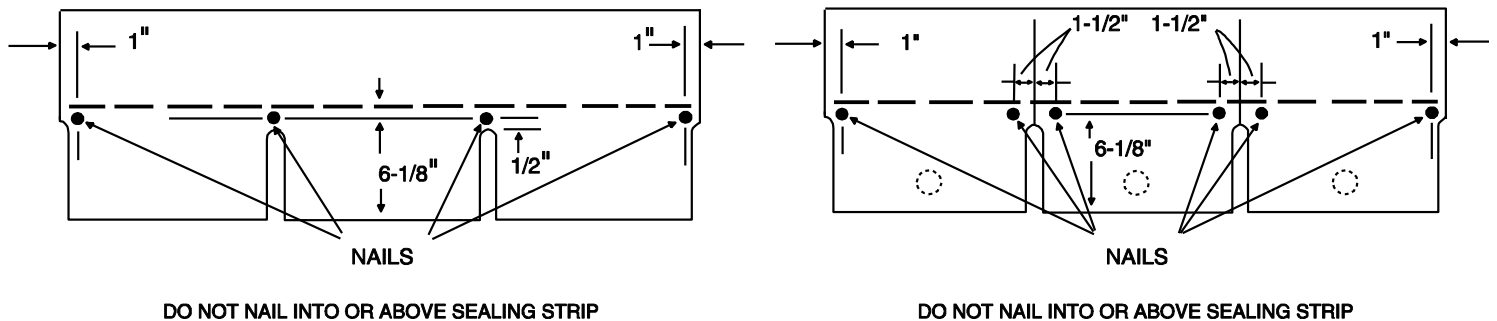
## PROPER NAILING – THREE TAB SHINGLES

One of the key components to shingle performance, regardless of manufacturer, is proper nailing. The purpose of this sample board is to show the proper nail position for three tab shingles. Proper nail placement (above the cutouts but below the sealant strip) is important because;

1. The uplift resistance of the shingle is increased by nails in the correct position – try lifting the two shingle pieces on the sample board to feel the difference.
2. It ensures that each shingle is held in place with two rows of nails – those nails directly in the shingle as well as the row of nails in the shingle above (which penetrate the upper edge of the shingle when installed correctly; if nails are placed too high, they “miss” the shingle below).
3. Correctly located nails “protect” the sealant bond area between shingles. Imagine three courses of shingles up the roof; A, B, and C. If the nails in shingle A are in the correct location, if shingle A is lifted by strong winds, the bond area between shingle A and B is “protected”, since shingle A will flex below this point. If the nails in shingle B are too high (above the sealant), and shingle B is lifted by strong winds, the bond area between shingle B and C is now compromised, since the flex point will be much higher. High nailing can lead to blow off of multiple courses of shingles in strong winds, and may prevent shingle sealant from activating if this “wind flexing” occurs while the shingle sealant is attempting to bond.

Included below is a copy of IKO’s nailing instructions found on each package of IKO three tab shingles.

**NAILING:** Use galvanized (zinc coated) roofing nails, 11 or 12 gauge, with at least 3/8" diameter heads, long enough to penetrate through plywood or 3/4" into boards. Use 4 nails per shingle placed 6-1/8" above the butt edge, 1" and 13" in from each end and 1/2" above each cutout. Drive nails straight so that nail head is flush with, but not cutting into shingle surface.



**NAILING ON STEEP SLOPES/HIGH WIND AREAS:** For high wind areas, or on slopes >21" per foot (more than 60°), use 6 nails per shingle placed as shown below. Ensure that no nail is within 2" of a joint of the underlying shingle. Seal down each shingle at time of application with three 1" diameter (approx. size and thickness of a quarter) spots of asphalt plastic cement placed under the shingle 2" above the bottom edge and equally spaced along the shingle. Apply plastic cement in moderation since excessive amounts may cause blistering. **CAUTION:** Shingles should seal to the underlying course when the factory applied asphalt sealant is sufficiently warmed by the heat of direct sunlight. When application conditions might limit the effectiveness of the sealing strip, such as in cool weather or in areas subject to high winds or blowing dust, shingle adherence should be ensured through manual sealing as described above.

Proper installation is required to ensure full coverage under the manufacturer’s limited warranty. Thank you for installing IKO three tab shingles correctly.

For additional information on any of IKO’s products or application requirements, visit us on the web at [www.iko.com](http://www.iko.com), or contact us in Canada at 1-888-766-2468, or the United States at 1-888-456-7663.

