Crowne Slate™

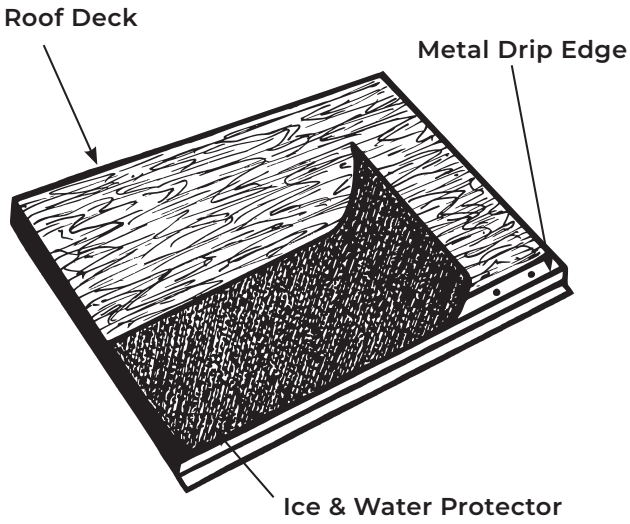
Application Instructions

ENGLISH

IMPORTANT MESSAGE • PLEASE READ! IKO assumes no responsibility for leaks or defects resulting from improperly installed shingles, improper preparation of the surface to be roofed over, or failing to provide proper ventilation in accordance with local building codes. Use caution when stacking bundles on sloped roofs.

ROOF SLOPE / ROOF DECKS: Never apply asphalt shingles to roof slopes less than 2:12. For slopes 2:12 to less than 4:12 (LOW SLOPE), see special underlayment requirements outlined below. We do not recommend the application of our roof shingles directly to any type of roof insulation, including perlite or fiberglass, foam, wood fiber, or similar products. Further, the application of our roofing shingles directly over any structural decks including gypsum, nailable concrete, or similar products (without our prior approval) will void the warranty.

STEPS 1-3



STEP 1:

PREPARE THE ROOF DECK: Deck must be smooth, firm, clean, dry and securely nailed. Wood panel decking is to be exterior grade, conforming to building code requirements. Panels are to be 3/8" min. thick plywood, or 7/16" min. thick non-veneer. The installation of asphalt shingles on dimensional lumber (including shiplap/board decks) is not recommended as it may potentially cause buckling problems, which are not covered by our Limited Warranty.

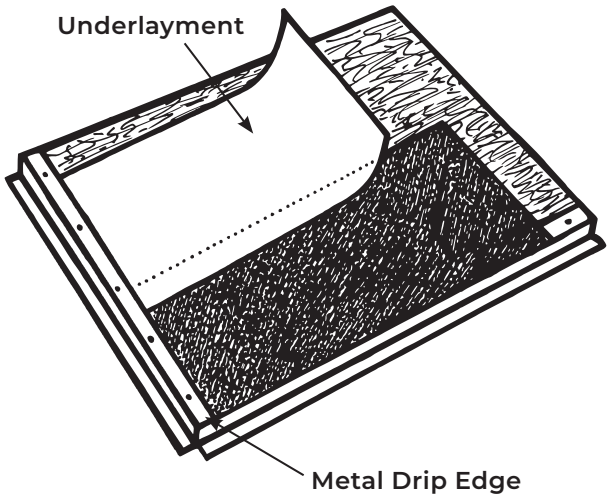
STEP 2:

APPLY DRIP EDGE ALONG EAVES: Apply metal drip edge over underlayment or directly to the deck along the eaves, spacing nails approximately 12” apart, conforming to building code requirements.

STEP 3:

EAVE PROTECTION: Apply oeave protection, such as IKO StormShield® Ice & Water Protector, as per building code requirements and manufacturer’s instructions, overhanging eaves by 1/4” to 3/4” and extending up the roof at least 24” beyond the vertical projection of the interior surface of the outside wall. NOTE: IKO recommends the use of eave protection in all situations, however, if no ice and water protector is required by your local code or standard, then alternately apply first course of underlayment overhanging the eaves by 1/4” to 3/4”.

STEPS 4-5



STEP 4:

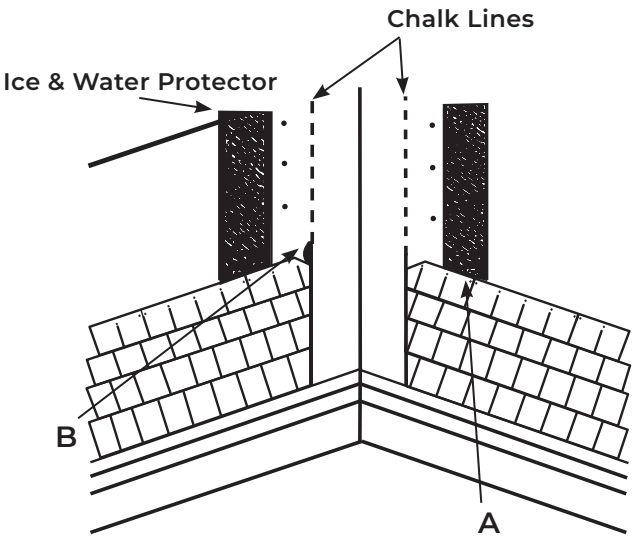
UNDERLAYMENT: Apply either asphalt saturated felt or synthetic underlayment, such as IKO's Stormtite™, in horizontal courses up the roof with 2" side laps and 4" end laps. Trim the sheet to fit the final course at the peak. One layer of underlayment is required over the entire deck to qualify for an ASTM E108/UL790 Class A fire-resistance rating or which may be required per the local building code.

LOW SLOPE: Crowne Slate Shingles are not recomended for roof slopes less than 4:12.

STEP 5:

APPLY DRIP EDGE AT THE RAKES: Apply metal drip edge on top of any underlayment along rake edges, spacing nails approximately 12" apart.

STEPS 6-7



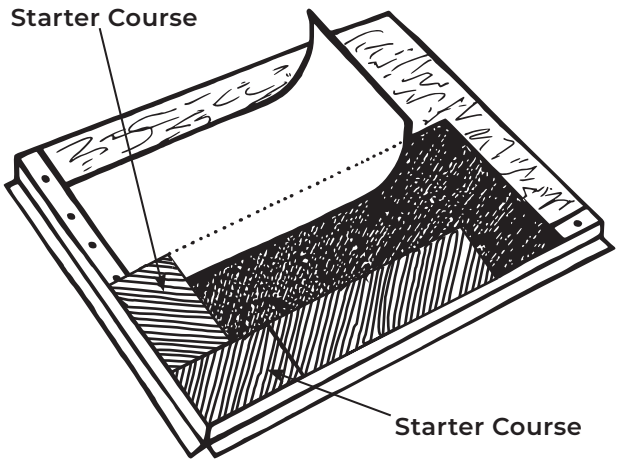
STEP 6:

INSTALL FLASHING: Corrosion-resistant flashing must be used to help prevent leaks where a roof meets a wall, another roof, a chimney or other objects that penetrate a roof. Flashing shall conform to the requirements of applicable building code and good roofing practice.

STEP 7:

INSTALL OPEN METAL VALLEYS: Metal valleys are recommended. (Closed valley applications are acceptable but not recommended. Please see Limited Warranty for details.) Complete valley flashing before shingles are applied. Center a 36” wide strip of ice and water protector in the valley and then fasten at the edges with only enough nails to hold in place. Center a minimum 24” wide, minimum 28 gauge pre-finished/galvanized metal valley liner in the valley, and fasten the edges with only enough nails to hold in place. Snap two chalk lines the full length of the valley, 6” apart at the top and increasing in width 1/8” per foot towards the bottom. When the shingles are being applied, lay them over the valley flashing, trim the ends to the chalk line, and cut a 2” triangle off the corner to direct water into the valley (A). Embed the valley end of each shingle into a 3” band of asphalt plastic cement (B). Do not place a nail in the shingle closer than 2” from the chalk line.

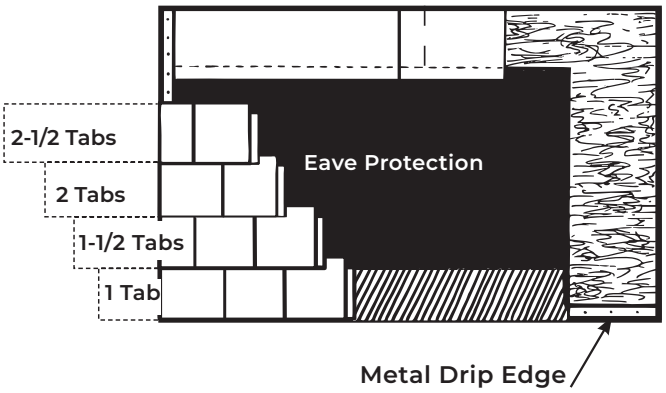
STEP 8



STEP 8:

INSTALL STARTER COURSE: IKO recommends using Leading Edge Plus™ Starter Shingles. Fold the Leading Edge Plus shingle along the perforation to separate. Cut the first starter shingle in half. Beginning at the left corner of the roof, start the eaves course by positioning one of the halves granule side up with the sealant adjacent to the eaves. It should overhang the eaves and rake edge by 1/4" to 3/4". Start the rake course by taking the remaining half and positioning it flush to the top edge of the eaves starter with the sealant adjacent to the rake edge overhanging the rake edge by 1/4" to 3/4". Fasten the half-length shingles with nails located about 3" from the eaves edge and 1" in from each end with a third in the center. Complete the eave and rake starter courses with full lengths of starter shingles maintaining a 1/4" to 3/4" overhang, and fastening with four nails per shingle. Alternatively, apply IKO EdgeSeal as directed by EdgeSeal application instructions.

STEPS 9-13

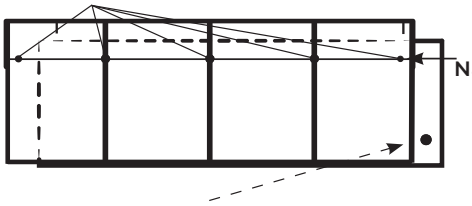


STEP 9:

INSTALL THE FIRST COURSE: Remove one full tab 9" from the left end of a full Crowne Slate shingle. Starting from the left rake edge, apply the trimmed shingle flush with the eave and rake starters. Nail as shown below and continue across the eave edge with full shingles, overlapping each shingle as you proceed.

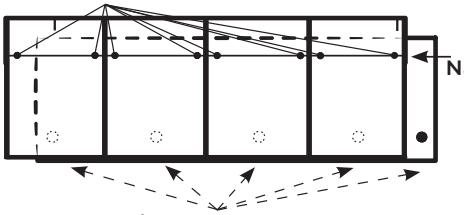
IMPORTANT! — PROPER NAILING

Standard Application
Requires **5 Nails**

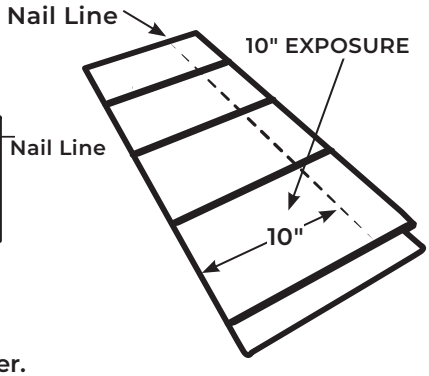


OPTIONAL: For optimal wind resistance, add a spot of cement here at the time of installation.

Steep Slope/High Wind Applications
Requires **8 Nails**



Apply Roofing Cement
CAUTION: Excessive use of roofing Cement can cause shingles to blister.



PROPER NAILING:

NAILING ON STEEP SLOPES/HIGH WIND AREAS: For high wind areas or on slopes of 21:12 (60°) or more, use eight nails per shingle placed as shown below. Ensure that no nail is within 2” of a joint/cutout of the underlying shingle. Seal down each shingle at time of application with four 1” diameter spots of roofing cement placed under the shingle 2” above the bottom edge and equally spaced along the shingle. Additionally, place a 1” spot of roofing cement on top of the overlap area as shown. Use roofing cement sparingly, as excessive amounts may cause blistering.

STEP 10:

CHALK LINES: To aid in alignment, snap horizontal chalk lines. Crowne Slate exposure is 10".

STEP 11:

INSTALL THE SECOND, THIRD AND FOURTH COURSES: Trim off 1-1/2 tabs, 2 tabs, and 2-1/2 tabs, respectively, from the left end of the shingle and apply flush with the rake starter shingle. Continue each course across the roof with full shingles, overlapping as you proceed. Apply the lower edge of the shingles 10” above the lower edge of the course below. There are small alignment slits at the sides and in the top edge of the shingles to aid installation, but chalk lines should always be used to help ensure the proper position.

STEP 12:

INSTALL THE FIFTH AND SUCCEEDING COURSES: Repeat the sequence of the first four courses up the roof. For maximum wind protection, cement shingles at rake edges.

STEP 13:

MANUALLY SEAL SHINGLES (IF NEEDED): Shingles should seal to the underlying course when the factory applied asphalt sealant is sufficiently warmed by the heat of direct sunlight. When conditions such as cool weather, high winds or blowing dust might limit the effectiveness of the sealing strip, please follow the manual sealing instructions found in the Nailing on Steep Slopes/High Wind Areas section above.

STEP 14:

INSTALL HIPS AND RIDGES: IKO recommends its pre-cut Hip and Ridge products, or pre-formed high profile IKO UltraHP. For IKO pre-cut Hip and Ridge products bend each piece over the hip or ridge, and nail per instructions on the wrapper. The exposed nail heads of the final shingle should be covered with roofing cement. For IKO UltraHP, follow the instructions on the box. Prior to application in cold weather, store hip and ridge shingles in a heated area to allow for easier bending.

IMPORTANT MESSAGE • PLEASE READ!

To ensure coverage under the High Wind Resistance Limited Warranty: Starter strip must be used at all eaves and rakes. The shingles must be installed with additional nails as specified, and they must have an opportunity to seal or be manually sealed as described. In Canada, manual sealing in addition to 8 nails is required. In Florida, manual sealing is not required.

IMPORTANT: FOR ALL APPLICATIONS IT IS CRITICAL TO USE THE NAIL LINE AS A GUIDE. HIGH NAILING ABOVE THE NAIL LINE CAN VOID IKO'S LIMITED WARRANTY.

FASTENERS: Nails must be 11 or 12-gauge roofing nails, corrosion-resistant, with at least 3/8" heads, and at least 1" long. For decks 3/4" thick or thicker, nails must go at least 3/4" into the deck. On thinner decks, nails must go at least 1/8" through the deck.