



Döcke



Application Instructions

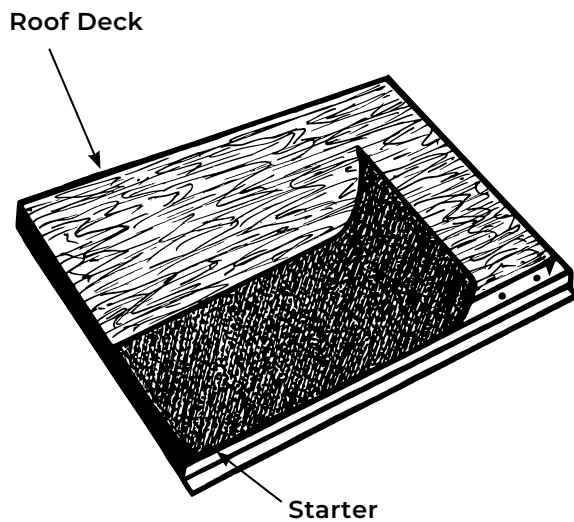
ENGLISH

IMPORTANT MESSAGE • PLEASE READ! NJ 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 approval for concrete bitumen primer for v-board or fiber cement board must be used bitumen sheet or under layment) will void the warranty.



STEP-1

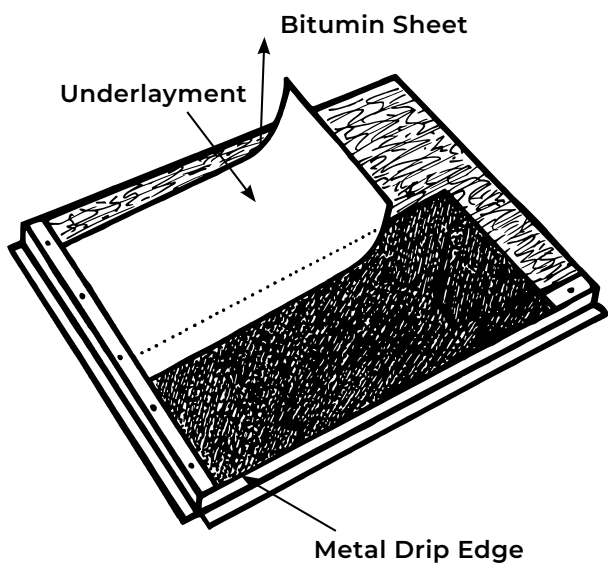


STEP 1:

PREPARE THE ROOF DECK: Deck must be smooth, firm, clean, dry and securely nailed. Wood panel or fiber cement board or concrete roof is to be exterior grade, conforming to building code requirements. Panels are to be 12 mm min. thick plywood, or 12 mm min.

The installation of a sphalt shingles on dimensional lumber (including shiplap/ board decks) is not recommended as it may potentially cause buckling problems, which are not covered by NJ or docke Warranty.

STEPS 2-3



STEP 2:

UNDERLAYMENT: Apply either asphalt saturated felt or synthetic underlayment, or bitumin sheet such as NJ's 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 roof to qualify warranty roof

For the leak-proof warranty to remain valid, the entire roof area must be completely covered with the specified underlayment before shingle installation. The underlayment is a mandatory component of the roofing system and must be installed over the full roof surface to provide moisture protection, enhance roof performance, and ensure warranty compliance. Failure to install underlayment over the complete roof area may void the leak-proof warranty.

LOW SLOPE: For roof slopes less than 4:12 down to 2:12 apply underlayment in successive courses by overlapping the preceding sheet by 19" with 4" end laps. Alternatively, apply a single layer of ice and water protector over the entire deck per manufacturer's instructions.

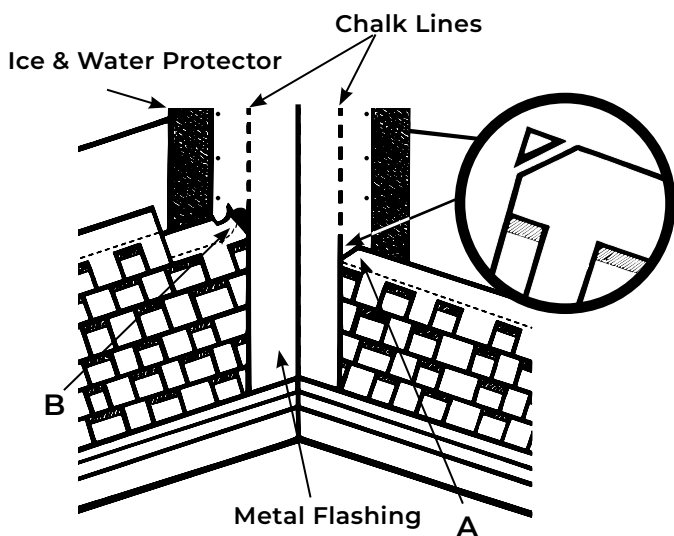
NOTE: SHINGLES APPLIED ACCORDING TO THESE INSTRUCTIONS ON SLOPES 3:12 TO 4:12 WILL BE WARRANTED FOR THE FULL WARRANTY TERM. SHINGLES ON SLOPES LESS THAN 3:12 DOWN TO 2:12 WILL BE WARRANTED FOR 12 YEARS.

STEP 3:

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



STEPS 4-5



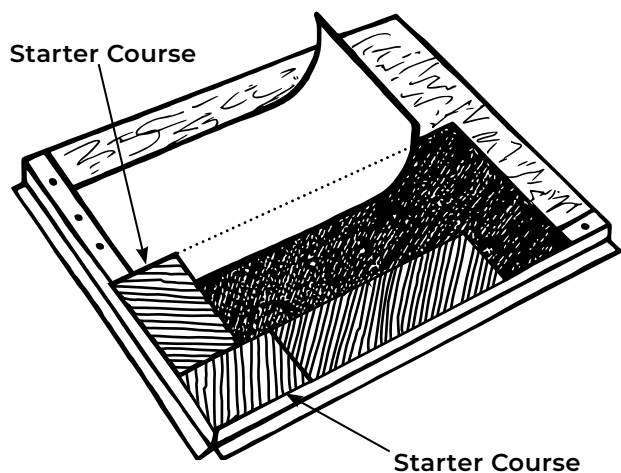
STEP 4:

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 5:

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.

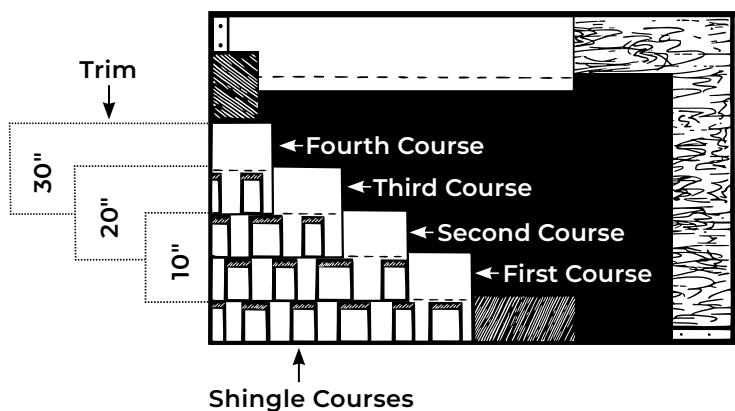
STEP 6



STEP 6:

INSTALL STARTER COURSE: NJ recommends using Starter Shingles. Fold the LeadingEdge 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 NJ EdgeSeal as directed by EdgeSeal application instructions.

STEPS 7 -12

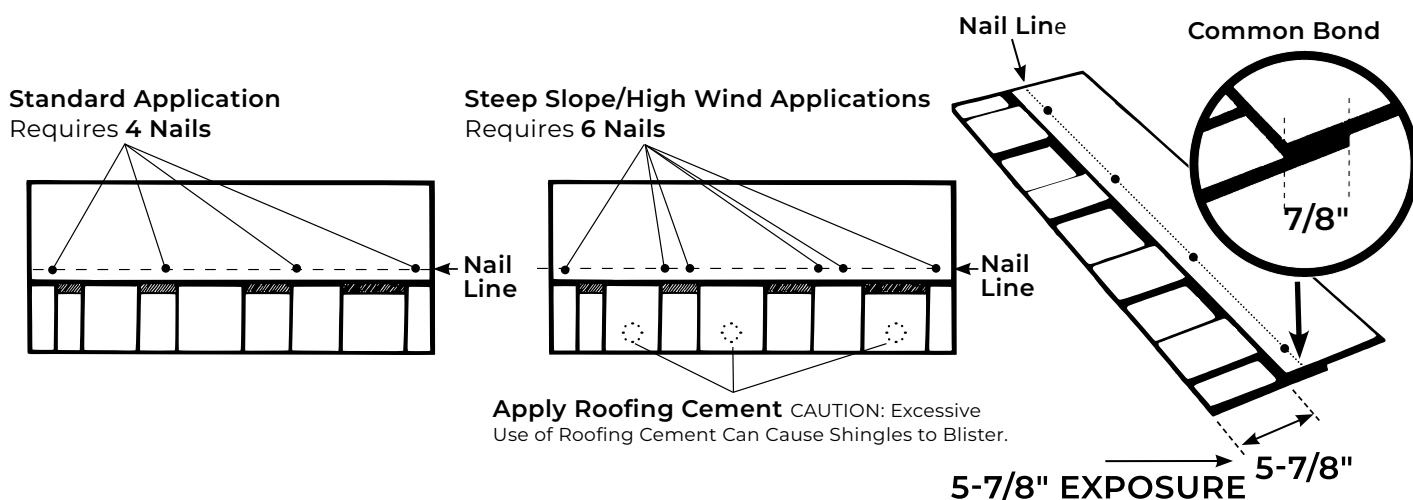


STEP 7:

INSTALL THE FIRST COURSE: Start with a full length shingle applied flush with starter course at rake and eave. Use four nails per shingle placed as shown below. After the first shingle in the course is installed, continue with full length shingles to complete the first course, trimming the last shingle so that it matches the overhang of the starter course below.



IMPORTANT! — PROPER NAILING



PROPER NAILING:

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

STEP 8:

CHALK LINES: To aid in alignment, snap horizontal chalk lines. Cambridge exposure is 5-7/8".

STEP 9:

INSTALL THE SECOND, THIRD AND FOURTH COURSES:

Trim off 10", 20", and 30" respectively, from the left end of the starting shingle and apply to overhang rake edge by 1/4" to 3/4". Continue each course across the roof with full shingles butting ends loosely. Align the bottom edge of the shingles with the tops of the saw teeth of the shingles in the underlying course. Note: Other offsets between 6" – 10" may be used. These alternative offsets will not adversely affect the applicable provisions of IKO's Limited Warranty, but may in some instances result in aesthetic issues.

STEP 10:

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 11:

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 12:

INSTALL HIPS AND RIDGES: NJ recommends its pre-cut Hip and Ridge products, or pre-formed high profile NJ UltraHP. For NJ 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 NJ, 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 shingles 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 hill area, manual sealing in addition to 6 nails is required. In normal area, sealing is not required.

ON CONCRETE ROOF

"Bitumen primer must be applied on concrete roofs before shingle installation to ensure the longevity of the shingles and to maintain the leak-proof warranty."

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

