

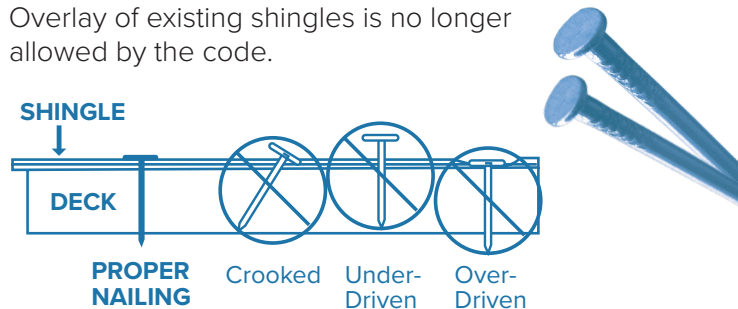
# RESIDENTIAL ROOFING

## Building Requirements

### Tear-Off

Completely remove existing shingles, underlayment (including the ice protection membrane), flashing (if rusted or in bad condition), etc and install roofing as if it is new construction. According to the National Roofing Contractors Association (NRCA), the existing ice protection membrane can remain in place if a second layer of membrane is applied over it. Roof sheathing must be checked before re-roofing and repaired or replaced if rotted or unsound. Replacement sheathing must conform to the requirements of the Building Code. Overlaying of sheathing may require approval by a Minnesota registered engineer. Refer to manufacturers installation requirements for sheathing.

Overlay of existing shingles is no longer allowed by the code.



### Fasteners

Fasteners for asphalt shingles must be galvanized steel, stainless steel, aluminum, or copper roofing nails with a minimum 12-gage (0.105 inch, or 3 mm) shank and a minimum 3/8-inch (10 mm) diameter head. They must be long enough to penetrate through the roofing materials and a minimum of 3/4 inch (19 mm) into the roof sheathing. Where the roof sheathing is less than 3/4 inch thick, the fasteners must penetrate through the sheathing. Fasteners must comply with ATSM F 1667.

*Note: Use of other types of fasteners must be approved by the City Inspections Department.*

### Roof Slope

Do not use asphalt shingles on roofs with less than a 2:12 slope. For roofs with slopes less than 4:12, asphalt shingles require special application procedures. Always follow manufacturer's instructions on package.

### Underlayment

#### For roof slopes of 2:12 to less than 4:12

Apply ice protection membrane according to manufacturers instructions to a point at least 24 inches inside the exterior wall line (see ice protection membrane requirements). Overlap the ice protection membrane 19 inches horizontally with 15# felt. Lap each subsequent layer of 15# felt 19 inches horizontally shingle fashion to peak. End laps shall be offset by six feet.

#### For roof slopes of 4:12 and over

Apply ice protection membrane according to manufacturers instructions to a point at least 24 inches inside the exterior wall line (see ice protection membrane requirements). Overlap the ice protection membrane a minimum of two inches horizontally with 15# felt. Lap each subsequent layer of 15# felt two inches horizontally shingle fashion to peak. End laps shall be offset by six feet.

### Valley Underlayment

Before applying shingles, install valley linings per the manufacturer's requirements.

### Valley Flashing

Valley flashing shall consist of not less than No. 26-gauge corrosion-resistant, galvanized sheet metal. The metal must extend at least 12 inches from the center line each way. Sections of flashing shall have an end lap of not less than four inches. Alternately, the valley may consist of woven asphalt singles or closed-cut style applied in accordance with the manufacturer's instructions.

## THREE INSPECTION MUSTS

- 1. Post** the inspection report card or summary sheet on the job site until the final inspection is completed.
- 2. Notify** Inspections when the installation is completed. Submit pictures of ice and water to [inspectionsdept@goldenvalleymn.gov](mailto:inspectionsdept@goldenvalleymn.gov)
- 3. Schedule** a final inspection at least 24 hours in advance (please have your permit number available).

**You can reach the Inspections Department between 8 am and 4:30 pm at 763-593-8090.**