



RESIDENTIAL ROOFING

*A Building permit is required for any alteration or addition to any existing building or structure. *MN State Building Code Section 1300.0120 Subpart 1* . Permit may be applied for at the Austin Building Department.

ROOF DECKING: Current building codes require that asphalt shingles be applied to solidly sheathed roof decks. **NOTE:** most shingle manufacturers include language that: asphalt shingles shall no be applied to existing decks with sheathing boards that exceed 6 inches in width. Solid sheathing (CDX, Plywood or OSB), which is manufactured and stamped for roof application may be required by the manufacturer's installation instructions before shingles are installed.

SLOPE: Asphalt shingles shall only be used on roof slopes of 2:12 or greater. For roof slopes from 2:12 up to 4:12 double underlayment application is required. (see attached illustrations)

FASTENERS: Fasteners for asphalt shingles shall be galvanized steel, stainless steel, aluminum or copper roofing nails, minimum 12 gage shank with a minimum 3/8-inch diameter head, of a length to penetrate through the roofing materials and a minimum of 3/4 inch into the roof sheathing. Where the roof sheathing is less than 3/4 inch thick, the fasteners shall penetrate through the sheathing.

ATTACHMENT: Asphalt shingles shall have the minimum number of fasteners required by the manufacturer. Asphalt shingles shall be secured to the roof with not less than four fasteners per strip shingle or two fasteners per individual shingle. Where the roof slope exceeds 20:12 special methods of fastening are required.

ICE BARRIER: In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or a self-adhering polymer modified bitumen sheet, shall be used in lieu of normal roof surfaces to a point 24 inches inside the exterior wall line of the building.

NOTE: Detached accessory structures that contain no conditioned floor area are exempt.

ASPHALT SHINGLE REQUIREMENT: MNRC R905.2.4.1 Asphalt shingles shall meet the classification requirements of table R905.2.4.1(1) for the appropriate maximum basic wind speed. Asphalt shingle packaging shall bear a label to indicate compliance with ASTM D 7158 and the required classification in table R905.2.4.1(1). **Exception:** Asphalt shingles not included in the scope of ASTM D 7158 shall be tested and labeled to indicate compliance with ASTM D 3161 and the required classification in Table R905.2.4.1(2)

TABLE R905.2.4.1(1) CLASSIFICATION OF ASPHALT ROOF SHINGLES PER ASTM D 7158

MAXIMUM BASIC WIND SPEED FROM FIGURE 301.2(4)A (mph)	CLASSIFICATION REQUIREMENT
85	D, G or H
*****90mph (Applies to Austin) *****	D, G or H
100	G or H
110	G or H
120	G or H
130	H
140	H
150	H

For SI: 1 mile per hour = 0.447 m/s.

TABLE R905.2.4.1(2) CLASSIFICATION OF ASPHALT SHINGLES PER ASTM D 3161

MAXIMUM BASIC WIND SPEED FROM FIGURE 301.2(4)A (mph)	CLASSIFICATION REQUIREMENT
85	A, D or F
*****90mph (Applies to Austin)*****	A, D or F
100	A, D or F
110	F
120	F
130	F
140	F
150	F

OVERLAYS: R907.3 Recovering versus replacement.

New roof coverings shall not be installed without first removing all existing layers of roof coverings where any of the following conditions exist:

1. Where the existing roof or roof covering is water-soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.
2. Where the existing roof covering is wood shake, slate, clay, cement or asbestos-cement tile.
3. Where the existing roof has two or more applications of any type of roof covering.

Exceptions:

1. Complete and separate roofing systems, such as standing-seam metal roof systems, that are designed to transmit the roof loads directly to the building's structural system and that do not rely on existing roofs and roof coverings for support, shall not require the removal of existing roof coverings.
2. Installation of metal panel, metal shingle and concrete and clay tile roof coverings over existing wood shake roofs shall be permitted when the application is in accordance with [Section R907.4](#).
3. The application of new protective coating over existing spray polyurethane foam roofing systems shall be permitted without tear-off of existing roof coverings.
4. Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck, the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier membrane in accordance with [Section R905](#).

CRICKETS AND SADDLES: A cricket or saddle shall be installed on the ridge side of any chimney greater than 30 inches wide. Cricket or saddle coverings shall be sheet metal or of the same material as the roof covering.

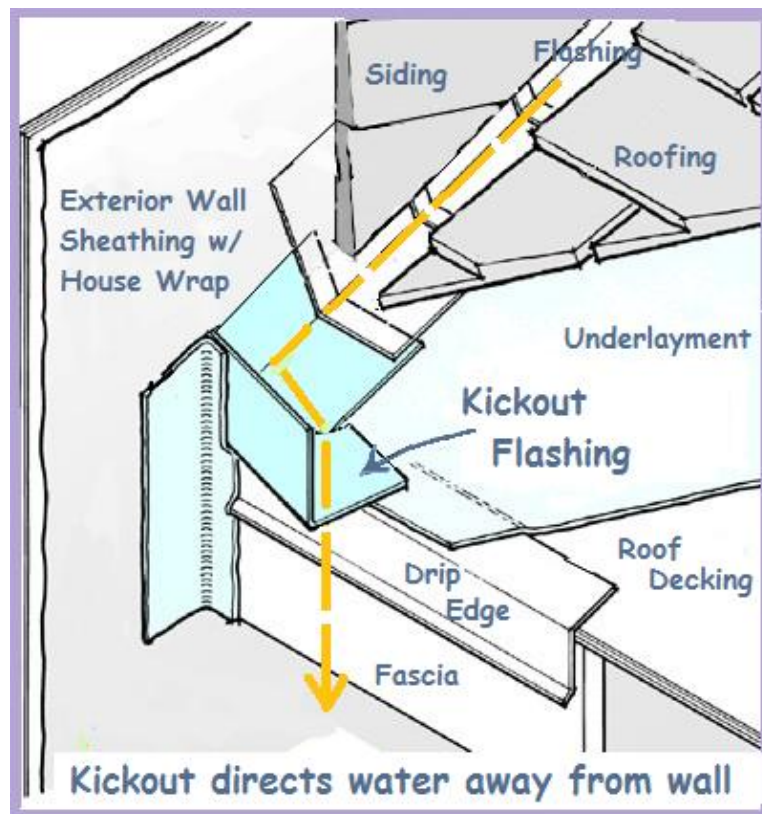
FLASHING: All base and cap and flashing shall be installed in accordance with manufacturer's installation instructions. Base flashing shall be of either corrosion-resistant metal of minimum nominal 0.019-inch thickness or mineral surface roll roofing weighing 77 pounds per 100 square feet. Cap flashing shall be corrosion-resistant metal of minimum nominal 0.019-inch thickness.

VALLEYS: Valley linings shall be installed in accordance with manufacturer's installation instructions.

SIDEWALL FLASHING: Flashing against a vertical sidewall shall be by the step-flashing method.

KICK-OUT FLASHING/DIVERTER: R903.2.1.1 Existing buildings and structures. Kick-out flashing shall be required in accordance with section R903.2.1 when simultaneously re-siding and re-roofing existing buildings and structures.

Exception: Kick-out flashing are not required when only re-roofing existing buildings and structures. (See Illustration)



ATTIC VENTILATION: When re-roofing, attic ventilation must be brought up to present code (Section R806 I.R.C.). Requirements are as follows:

- 1) 1 sq.ft. of vent area per 150 sq.ft. of attic area without soffit venting.
- 2) 1 sq.ft. of vent area per 300 sq.ft. of attic with soffit venting.

REQUIRED INSPECTIONS: When roofing has been completed, a final inspection is required. Please contact the Austin Building Department at 437-9950 to schedule inspections. Prior notice of 24 hours is encouraged to insure an appointment.

The language & depictions in this hand out is meant as a guide for the construction code & building process and may not contain exact code language. For exact code you may go online at www.revisor.mn.gov or contact the Austin Building Department.

RESIDENTIAL ROOFING INSPECTION

Attention all Roofing Permit Applicants:

EFFECTIVE IMMEDIATELY The City of Austin will be implementing a new policy for all residential roofing inspections.

The City of Austin will now allow you to provide pictures of the ice barrier installation, in lieu of scheduling an on-site inspection of the installation.

If you are choosing to provide pictures you must meet the following:

1. The pictures must clearly show the ice barrier, separate from the regular underlayment.
2. They must show all roof sections of the structure being roofed.
3. It must be determinable that the photos provided are of the structure being inspected.
Be sure to include unique parts of the structure or landscaping.
4. The pictures must be of a size and clarity to provide enough detail to verify compliance

To submit photos choose from the following:

1. Have photos available at inspection
2. Email them to the Austin Building Department agrabau@ci.austin.mn.us
3. Drop off photos at our office (500 4th Ave NE)

If no inspection is scheduled and/or pictures are not submitted or left on site the roof will not pass final inspection.