

Roofing

Building Code Highlights For Asphalt Shingling Projects

Roofing

Get a **Permit**.
Follow the **Manufacturer's Specifications**.
Provide **Photos of Sheathing and Ice Barrier**.
Call for a **Final Inspection**.



Permits

The **Minnesota State Building Code** requires a **Building Permit** for roofing work.



For Goodhue County projects within the limits of a **city**, make application for a permit at the respective city hall.

For Goodhue County projects in **unincorporated** areas outside the limits of a city, make application for a permit first with the respective township clerk, then with the County Land Use Management Department.

County Building Permit Applications are available at the Land Use Management Office or they can be downloaded from the County Web Site.

www.co.goodhue.mn.us

Manufacturer's Specifications

Roofing must be done to the manufacturer's specifications and instructions. Specifications and instructions generally are listed on each bundle of shingles. Following the manufacturer's specifications and instructions is required by the Building Code and typically is necessary to meet the terms of any warranty. **Pay special attention to the overhang of the shingles at the roof rake and at the eaves.**

Inspections

When the project is completed, call the **Building Division** of Goodhue County Land Use Management Department at **651/385-3114** for **final inspection** of the work. In lieu of an inspection, the installer may provide **photographs** that show adequate **sheathing** and properly-installed compliant **ice barrier**.

Roofing Contractors

Roofing Contractors, like other contractors who contract with a homeowner to perform home construction, remodeling, or repair, **must be licensed** with the Minnesota Department of Commerce. Homeowners can call the Commerce Department Licensing Division at 651/296-6319 to obtain information on a specific contractor. Contractors must display their license number on their advertising and they must make it available to consumers. Building permits **cannot** be granted to contractors who are not properly licensed by the state.

Homeowners can obtain permits to do work on their own home. The License Law was written to insure a reasonable degree of protection for consumers of construction services, not to discourage homeowners from doing work on their own property.

Reroofing

New! New roof coverings shall not be installed without first **removing existing roof coverings**. (IRC 907)

Reroofing: Reinstallation of Materials

Existing vent flashing, metal edgings, drain outlets, collars, and metal counterflashings, **shall not be reinstalled** where rusted, damaged, or deteriorated. (IRC 907.5)

Asphalt Shingles and Roof Pitch



Asphalt shingles shall only be used on **roof slopes** of two (2) units vertical in 12 units horizontal (2:12) or greater.

For roof slopes from two (2) units vertical in 12 units horizontal to four (4) units vertical in 12 units horizontal (2:12 to 4:12), **double underlayment** is required. (IRC 905.2.2)

Sheathing

Asphalt shingles shall be fastened to **solidly sheathed decks** or 1-inch thick nominal wood boards. (IRC 905.2.1)

In lieu of interrupting the job for an inspection, the installer may provide **photographs of adequately sheathed decks**.

Underlayment

For roof slopes of 2:12 up to 4:12, two layers of 15-pound felt must be applied shingle fashion. Begin with a 19-inch strip of felt parallel with and starting at the eaves. Begin again at the eaves and apply a 36-inch wide sheet of felt over the first sheet. Each subsequent sheet of felt must be lapped 19 inches.

For roof slopes of 4:12 and greater, one layer of 15-pound felt must be applied. Each sheet must be lapped two (2) inches.

Underlayment must be **fastened** sufficiently to hold it in place. End laps shall be offset by six (6) feet.

See the International Residential Code, Section R905.2.7 for underlayment requirements.

Ice Protection

In areas where the average daily temperature in January is 25 degrees or less, 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 underlayment and shall extend from the eave's edge to a point **at least 24 inches inside the exterior wall line** of the building. (IRC 905.2.7.1)

The ice protection requirement applies to the **main structure**, to **unheated attached garages**, and to conditioned **detached accessory structures**.

An exception is made for detached accessory structures that contain no conditioned floor area. (IRC 905.2.7.1)



In lieu of interrupting the job for an inspection, the installer may provide **photographs of properly-installed ice barrier**.

Fasteners

Fasteners for asphalt shingles shall be **galvanized steel, stainless steel, aluminum, or copper** roofing nails with a minimum 12 gage **shank** and a minimum 3/8-inch diameter **head**, and of a **length** to penetrate through the roofing materials and into the roof sheathing a minimum of 3/4-inch. (IRC 905.2.5)

Roof Ventilation

Enclosed attics and rafter spaces must be ventilated to a **total net free ventilated area** of not less than **1-to-150**.

The ventilation area may be reduced to 1-to-300 when.....

..... 50-to-80 percent of the ventilation is in the upper portion of the space **and** the remainder is eave and cornice venting, **or** when

..... a vapor barrier of 1 perm or less is installed on the warm side of the ceiling. (IRC 806)

Flashing



Approved corrosion-resistant **flashing shall be installed** at wall and roof intersections. (IRC 703.8)

Flashing against a vertical sidewall shall be by the **step-flashing** method. (IRC 905.2.8.4)

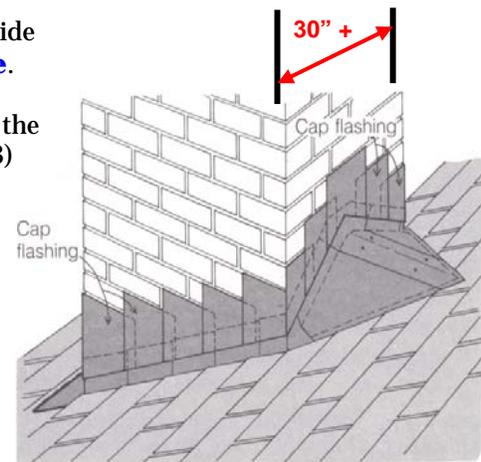


Provisions should be made to **divert water** away from the house.



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. (IRC 905.2.8.3)



For additional information or to apply for a permit, contact your local building department.

Goodhue County
Land Use Management Department
Building Permits and Inspections
www.co.goodhue.mn.us
651/385-3114

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