



City of North Canton, Ohio

145 North Main Street, North Canton, Ohio 44720-2587

Permits and Inspection Department

Phone: 330-499-8223 Option 4 Fax: 330-966-3630

***REVISED FEE 3/16/2018**

CITY OF NORTH CANTON ROOFING APPLICATION

APP#: _____

Permit No: _____

Date: _____

Date: _____

Inspection Fees for Ice Guard and Final: \$150.00 + \$1.50 (1%) = \$151.50

Receipt #: _____

Contractor: _____

Homeowner: _____

Address: _____

Address: _____

Telephone: _____

Telephone: _____

Number of Existing Roof Layers: _____ To be removed? Yes No To be Overlayed? Yes No

Roof Insulated? Yes No Pitch of Roof: _____ Replace Underlayment? Yes No

Type of Shingles: _____ Manufacturer: _____ Weight _____ Warranty ___ Years

Ventilation

Existing: Number of Vents: _____ Size: _____ New Gutters? Yes No

Proposed: Number of Vents: _____ Size: _____ Job Valuation: _____

Required by Manufacturer: Number of Vents: _____ Size: _____

See Section 806.2 of the Residential Code of Ohio – The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least fifty percent (50%) and not more than eighty percent (80%) of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least three feet (3') above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor barrier is installed on the warm-in-winter side of the ceiling.

Signed: _____

Date: _____

Ice Guard Inspection required. Please give a ½ hour notice prior to completing ice guard installation.

Show dimensions of roof and location and size of proposed ventilation:



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RESIDENTIAL ROOFING INSTALLATION AGREEMENT

I, Contractor/Installer _____, agree to complete the roof installation at _____ in accordance with the Current Residential Code of Ohio and accept full responsibility for the proper installation of the following:

- Installation of all materials in accordance with manufacturer's instruction
- Inspection of underlayment and replacement of any damaged or missing material
- Install roof felt 30# 15#
- Install drip edge
- New power vent **(Electrical Permit Required)**
- Calculate required roof ventilation and install, as per calculations. 1/150 or 1/300 of attic area to be vented. **See Section 806.2 of the 2013 Residential Code of Ohio**, which states that the total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least fifty percent (50%) and not more than eighty percent (80%) of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least three feet (3') above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor barrier is installed on the warm-in-winter side of the ceiling.
- Replace step, chimney and pipe flashing, as needed
- Install ice barrier at all eaves to extend to a point twenty-four inches (24") inside the exterior wall line of the building
 - Formula for determining current width of ice guard: Soffit width + wall thickness + 24"
 - Example: Soffit width 12" + wood frame wall with siding 5" + 24" = 41" wide ice guard
 - Key: Wood wall 5"
 Mason wall 8"

Contractor/Installer _____ Date: _____
(Signature)

Note #1: If the homeowner obtains this permit on behalf of a Contractor, you are liable for all work including any violations or uncompleted work. **Contractors must be currently registered.**

Note #2: If a Contractor engages a Subcontractor **subsequent** to application for the permit and obtaining the permit, the **Contractor shall be responsible to immediately notify** the Building and Zoning Department as to the Subcontractor engaged, along with that company's and/or individual's license and registration number.

Ice Guard Inspection required. Please give a ½ hour notice prior to completing ice guard installation.

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RESIDENTIAL GUIDELINES FOR NEW ROOF

SECTION 905

REQUIREMENTS FOR ROOF COVERINGS

905.1 Roof Covering Application. Roof coverings shall be applied in accordance with the applicable provisions of this section and the manufacturer's installation instructions. Unless otherwise specified in this section, roof coverings shall be installed to resist the component and cladding loads specified in Table 301.2(2), adjusted for height and exposure in accordance with Table 301.2(3).

905.2 Asphalt Shingles. The installation of asphalt shingles shall comply with the provisions of this section.

905.2.1 Sheathing Requirements. Asphalt shingles shall be fastened to solidly sheathed decks.

905.2.2 Slope. Asphalt shingles shall be used only on roof slopes of two units vertical in 12 units horizontal (2:12) or greater. For roof slopes from two units vertical in 12 units horizontal (2:12) up to four units vertical in 12 units horizontal (4:12), double underlayment application is required in accordance with section 905.2.7.

905.2.3 Underlayment. Unless otherwise noted, required underlayment shall conform to ASTM D 226 Type I, ASTM D 4869 Type I, or ASTM D 6757.

Self-adhering polymer modified bitumen sheet shall comply with ASTM D 1970.

905.2.4 Asphalt Shingles. Asphalt shingles shall comply with ASTM D 225 or D 3462.

905.2.4.1 Wind Resistance of Asphalt Shingles. Asphalt shingles shall be tested in accordance with ASTM D 7158. Asphalt shingles shall meet the classification requirements of Table 905.2.4.1(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 905.2.4.1(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 905.2.4.1(2).

905.2.5 Fasteners. Fasteners for asphalt shingles shall be galvanized steel, stainless steel, aluminum or copper roofing nails, minimum 12 gauge [0.105 inch] shank with a minimum 3/8-inch diameter head, ASTM F 1667, 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. Fasteners shall comply with ASTM F 1667.

905.2.6 Attachment. Asphalt shingles shall have the minimum number of fasteners required by the manufacturer, but not less than four fasteners per 4101:8-9-01 7 strip shingle or two fasteners per individual shingle. Where the roof slope exceeds 21 units vertical in 12 units horizontal (21:12, 175% slope), shingles shall be installed as required by the manufacturer.

905.2.7 Underlayment Application. For roof slopes from two units vertical in 12 units horizontal (17% slope), up to four units vertical in 12 units horizontal (33% slope), underlayment shall be two layers applied in the following manner: Apply a 19-inch strip of underlayment felt parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch wide sheets of underlayment, overlapping successive sheets, 19 inches, and fastened sufficiently to hold in place. Distortions in the underlayment shall not interfere with the

ability of the shingles to seal. For roof slopes of four units vertical in 12 units horizontal (33% slope) or greater, underlayment shall be one layer applied in the following manner: Underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 2 inches, fastened sufficiently to hold in place. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. End laps shall be offset by 6 feet.

905.2.7.1 Ice Barrier. In areas where there has been a history of ice forming along the eaves causing a backup of water as designated in Table 301.2(1), an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet, shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area.

905.2.7.2 Underlayment and High Wind. Underlayment applied in areas subject to high winds [above 110 mph per Figure 301.2(4)] shall be applied with corrosion resistant fasteners in accordance with manufacturer's installation instructions. Fasteners are to be applied along the overlap further apart than 36 inches on center.

905.2.8 Flashing. Flashing for asphalt shingles shall comply with this section.

905.2.8.1 Base and Flashing. Base 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 a minimum of 77 pounds per 100 square feet. Cap flashing shall be corrosion-resistant metal of nominal 0.019-inch thickness.

905.2.8.2 Valleys. Valley linings shall be installed in accordance with the manufacturer's installation instructions before applying shingles. Valley linings of the following types shall be permitted:

1. For open valleys (valley lining exposed) lined with metal, the valley lining shall be at least 24 inches wide and of any of the corrosion resistant metals in Table 905.2.8.2.

2. For Open Valleys, valley lining of two plies of mineral surfaced roll roofing, complying with ASTM D 3909 or ASTM D 6380 Class M, shall be permitted. The bottom layer shall be 18 inches and the top layer a minimum of 36 inches wide.

3. For closed valleys (valley covered with shingles), valley lining of one ply of smooth roll roofing complying with ASTM D 6380 and at least 36 inches wide or valley lining as described in Item 1 or 2 above shall be permitted. Self-adhering polymer modified bitumen underlayment complying with ASTM D 1970 shall be permitted in lieu of the lining material.

905.2.8.3 Side Wall Flashing. Flashing against a vertical sidewall shall be by the step-flashing method. The flashing shall be a minimum of 4 inches high and 4 inches wide. At the end of the vertical side wall the step-flashing shall be turned out in a manner that directs water away from the wall and onto the roof and/or gutter.

905.2.8.4 Other Flashing. Flashing against a vertical front wall, as well as soil stack, vent pipe and chimney flashing, shall be applied according to the asphalt shingle manufacturer's printed instructions.

I hereby certify that all information given below is correct and accurate and has been included as part of the submitted plans, if required.

PRINTED NAME (OWNER/APPLICANT)

SIGNATURE

TITLE

DATE

PROJECT ADDRESS:

Section 907 – Guidelines for Reroofing

907.1 General.

Materials and methods of application used for re-covering or replacing an existing roof covering shall comply with the requirements of Chapter 9.

Exception: Reroofing be required to meet the minimum design slope requirement of one-quarter unit vertical in 12 units horizontal (2% slope) in section 905 for roofs that provide positive roof drainage.

907.2 Structural and Construction Loads.

The structural roof components shall be capable of supporting the roof covering system and the material and equipment loads that will be encountered during installation of the roof covering system.

907.3 Recovery 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.
4. For asphalt shingles, when the building is located in an area subject to moderate or severe hail exposure according to Figure 903.5.

Exceptions:

- a. 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.
- b. 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 907.4.
- c. The application of new protective coating over existing spray polyurethane foam roofing shall be permitted without tear-off of existing roof coverings.

907.4 Roof Covering.

Where the application of a new roof covering over wood shingle or shake roofs creates a combustible concealed space, the entire existing surface shall be covered with gypsum board, mineral fiber, glass fiber or other approved materials securely fastened in place.

907.5 Reinstallation of Materials.

Existing slate, clay or cement tile shall be permitted for reinstallation, except that damaged, cracked or broken slate or tile shall not be reinstalled. Existing vent flashing, metal edgings, drain outlets, collars and metal counter flashings shall not be reinstalled where rusted, damaged or deteriorated. Aggregate surfacing materials shall not be reinstalled.

907.6 Flashings.

Flashings shall be reconstructed in accordance with approved manufacturer's installation instructions. Metal flashing to which bituminous materials are to be adhered shall be primed prior to installation.

Ice guard inspections required. Please give a ½ hour notice prior to completing ice guard installation.