

CUSTOMER ASSISTANCE GUIDE FOR EXTERIOR SIDING AND ROOFS

Applicant/Company: _____ Phone: _____

Address: _____ City: _____ State: _____ Zip: _____

TYPE OF WORK: Roofing Siding ~~_____~~ **(FILL IN DETAIL BELOW)**

<u>ROOFING</u>	<u>SIDING</u>
<input type="checkbox"/> Tear off <input type="checkbox"/> Over lay # existing layers _____ Existing type: _____ New Type: <input type="checkbox"/> Build up <input type="checkbox"/> Asphalt <input type="checkbox"/> Slate <input type="checkbox"/> Tile <input type="checkbox"/> Metal <input type="checkbox"/> Wood Shake <input type="checkbox"/> Roll roofing <input type="checkbox"/> Thermal Plastic Replac <u>ing</u> : <input type="checkbox"/> Flashing <input type="checkbox"/> Underlayment <input type="checkbox"/> Sheathing <input type="checkbox"/> Ice protection Fastener type _____ Slope/Pitch _____ <u>Existing Roof Ventilation:</u> <input type="checkbox"/> Ridge _____ of linear feet. <input type="checkbox"/> Soffit # _____ <input type="checkbox"/> Hat # _____ Replac <u>ing</u> Vents <input type="checkbox"/> yes <input type="checkbox"/> no <u>New Roof Ventilation:</u> <input type="checkbox"/> Ridge _____ of linear feet. <input type="checkbox"/> Soffit # _____ <input type="checkbox"/> Hat # _____	<input type="checkbox"/> Tear off <input type="checkbox"/> Over lay Existing type: _____ New Type: <input type="checkbox"/> Vinyl <input type="checkbox"/> Wood <input type="checkbox"/> Stucco <input type="checkbox"/> Stone/Brick <input type="checkbox"/> Hard Board <input type="checkbox"/> Aluminum <input type="checkbox"/> Wood Shakes/Shingles Fastener type _____ Fastener spacing _____ Type of Flashing _____ Flashing location _____ _____ _____

LAST PAGE MUST BE SIGNED BEFOR APPLICATION WILL BE CONSIDERED

CUSTOMER ASSISTANCE GUIDE FOR EXTERIOR COVERING AND ROOFS

SECTION R703

R703.1 General.

Exterior walls shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing as described in Section R703.8. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water-resistive barrier behind the exterior veneer as required by Section R703.2.

R703.4 Attachments.

Unless specified otherwise, all wall coverings shall be securely fastened in accordance with Table R703.4 or with other approved aluminum, stainless steel, zinc-coated or other approved corrosion-resistant fasteners.

R703.8 Flashing.

Approved corrosion-resistant flashing shall be provided in the exterior wall envelope in such a manner as to prevent entry of water into the wall cavity or penetration of water to the building structural framing components. The flashing shall extend to the surface of the exterior wall finish and shall be installed to prevent water from reentering the exterior wall envelope. Approved corrosion-resistant flashings shall be installed at all of the following locations:

1. At top of all exterior window and door openings in such a manner as to be leakproof, except that self-flashing windows having a continuous lap of not less than $1 \frac{1}{8}$ inches (28 mm) over the sheathing material around the perimeter of the opening, including corners, do not require additional flashing; jamb flashing may also be omitted when specifically approved by the building official.
 2. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.
 3. Under and at the ends of masonry, wood or metal copings and sills.
 4. Continuously above all projecting wood trim.
 5. Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
 6. At wall and roof intersections.
 7. At built-in gutters.
1. R907.1 General.

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

Exception: Reroofing shall not be required to meet the minimum design slope requirement of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section 905 for roofs that provide positive roof drainage.

2. R907.3 Recovering versus replacement. New roof coverings shall not be installed without first removing existing roof coverings where any of the following conditions occur:

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. Metal panel, metal shingle, and concrete and clay tile roof coverings shall be permitted to be installed over existing wood shake roofs when applied in accordance with Section R907.4 .

3. R907.6 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.

4. R903.1 General.

Roof decks shall be covered with approved roof coverings secured to the building or structure in accordance with the provisions of this chapter. Roof assemblies shall be designed and installed in accordance with this code and the approved manufacturer's installation instructions such that the roof assembly shall serve to protect the building or structure.

5. R903.2 Flashing.

Flashings shall be installed in such a manner so as to prevent moisture entering the wall and roof through joints in copings, through moisture permeable materials, and at intersections with parapet walls and other penetrations through the roof plane.

6. R905.2.2 Slope.

Asphalt shingles shall only be used 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 R905.2.7 .

7. R905.2.3 Underlayment.

Unless otherwise noted, required underlayment shall conform with ASTM D 226, Type I, or ASTM D 4869, Type I.

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

8. R905.2.4 Asphalt shingles.

Asphalt shingles shall have self-seal strips or be interlocking, and comply with ASTM D 225 or D 3462.

9. R905.2.5 Fasteners.

Fasteners for asphalt shingles shall be galvanized steel, stainless steel, aluminum or copper roofing nails, minimum 12 gage [0.105 inch (2.67 mm)] shank with a minimum 3 / 8 -inch (9.5 mm) diameter head, ASTM F 1667, of a length to penetrate through the roofing materials and a minimum of ¾ inch (19.1 mm) into the roof sheathing. Where the roof sheathing is less than ¾ inch (19.1 mm) thick, the fasteners shall penetrate through the sheathing. Fasteners shall comply with ASTM F 1667.

10. R905.2.6 Attachment.

Asphalt shingles shall have the minimum number of fasteners required by the manufacturer. For normal application, 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 units vertical in 12 units horizontal (20:12), special methods of fastening are required. For roofs located where the basic wind speed per Figure R301.2(4) is 110 mph (177 km/h) or greater, special methods of fastening are required. Special fastening methods shall be tested in accordance with ASTM D 3161, modified to use a wind speed of 110 mph (177 km/h).

Shingles classified using ASTM D 3161 are acceptable for use in wind zones less than 110 mph. Shingles classified using ASTM D 3161 modified to use a wind speed of 110 mph are acceptable for use in all cases where special fastening is required.

11. R905.2.7 Underlayment application.

For roof slopes from two units vertical in 12 units horizontal (17-percent slope), up to four units vertical in 12 units horizontal (33-percent slope), underlayment shall be two layers applied in the following manner. Apply a 19-inch (483 mm) strip of underlayment felt parallel with and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide (914 mm) sheets of underlayment, overlapping successive sheets 19 inches (483 mm), and fastened sufficiently to hold in place. For roof slopes of four units vertical in 12 units horizontal (33-percent 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 (51 mm), fastened sufficiently to hold in place. End laps shall be offset by 6 feet (1829 mm).

12. R905.2.8.2 Valleys.

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

1. For open valley (valley lining exposed) lined with metal, the valley lining shall be at least 24 inches (610 mm) wide and of any of the corrosion-resistant metals in Table R905.2.8.2 .
2. For open valleys, valley lining of two plies of mineral surface roll roofing, complying with ASTM D 249, shall be permitted. The bottom layer shall be 18 inches (457 mm) and the top layer a minimum of 36 inches (914 mm) wide.
3. For closed valleys (valley covered with shingles), valley lining of one ply of smooth roll roofing complying with ASTM D 224 Type II or Type III and at least 36 inches (914 mm) wide or valley lining as described in Items 1 and 2 above shall be permitted. Specialty underlayment complying with ASTM D 1970 may be used in lieu of the lining material.

13. R905.3.3.2

For roof slopes of four units vertical in 12 units horizontal {4:12} or greater, underlayment shall be a minimum of one layer of underlayment felt applied shingle fashion, parallel to and starting from the eaves and lapped 2 inches {51mm}, fastened sufficiently in place.

14. R806.1 Ventilation required.

Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilating openings shall be provided with corrosion-resistant wire mesh, with 1 / 8 inch (3.2 mm) minimum to ¼ inch (6.4 mm) maximum openings.

15. R806.2 Minimum area.

The total net free ventilating area shall not be less than 1 to 150 of the area of the space ventilated except that the total area is permitted to be reduced to 1 to 300, provided at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above 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 to 300 when a vapor barrier having a transmission rate not exceeding 1 perm (57.4 mg/s • m² • Pa) is installed on the warm side of the ceiling.

109.1 General.

Residential construction or work for which an approval is required shall be subject to inspection by the residential building official or his designee and such construction or work shall remain accessible and exposed for inspection purposes until approved. It shall be the duty of the applicant to cause the work to remain accessible and exposed for inspection purposes but failure of the inspectors to inspect the work within three days, exclusive of Saturdays, Sundays and legal holidays, after the work is ready for inspection, permits the work to proceed.

109.3 Required inspections.

The residential building official, upon notification, shall cause the inspections set forth in Sections 109.3.1 to 109.3.7 to be made by an appropriately certified inspector in accordance with the approved residential construction documents. Owner/Contractor must call to find out which inspections are needed prior to final inspection. (740) 283-6000 ext 1700

109.3.10 Final inspection.

The final inspection shall be made after all work required by this section is done.

Call for a final inspection once work is completed.

Owner or Owner's Representative

Date

Print Name and Title as Signed

- Architect
- Engineer

- Owner
- Contractor