

# Residential Roofing Requirements – 2021 IRC

This is not a full list, please refer to chapters 8 & 9 for full requirements

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1. **Roof Replacement:** Roof replacement shall include the removal of existing layers of roof coverings down to the roof deck unless exemption is met. (R908.3)
2. **Sheathing Requirements:** Asphalt shingles shall be fastened to solidly sheathed decks, conforming to manufacturers specs. (R905.2.1)
3. **Asphalt Shingles:** Asphalt shingles shall be tested in accordance with ASTM D 7158. Asphalt shingles shall meet the classification requirements of Table R905.2.4.1 for appropriate ultimate design 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. (R905.2.4.1)
4. **Drip Edge:** A drip edge shall be provided at eaves and rake edges of shingle roofs. Adjacent segments of drip edge shall be overlapped not less than 2". Drip edges shall extend not less than 1/4" below the roof sheathing and extend up back onto the roof deck not less than 2". Drip edges shall be mechanically fastened to the roof deck at not more than 12" O.C. with fasteners as specified in Section R905.2.8.5. Underlayment shall be installed over the drip edge along eaves and under the drip edge along rake edges. (R905.2.8.5)
5. **Fasteners:** Fasteners for asphalt shingles shall be galvanized steel, stainless steel, aluminum or copper roofing nails, minimum 12-gauge shank with a min 3/8" diameter head, complying with ASTM F1667, of length to penetrate through the roofing materials and not less than 3/4" into the roof sheathing. Where the roof sheathing is less than 3/4" thick, the fasteners shall penetrate through the sheathing. (R905.2.5)
6. **Valley Linings:** Valley linings shall be installed in accordance with the manufacturer's instructions before applying shingles. Valley linings of the following types shall be permitted: (R905.2.8.2) **a.** For open valleys (valley lining exposed) lined with metal, the valley lining shall not be less than 24" wide of any of the corrosion-resistant metals in Table R905.2.8.2. **b.** For open valleys, valley lining of two layers of minerals-surfaced roll roofing, complying with ASTM D 3909 or ASTM D 6380 Class M, shall be permitted. The bottom layer shall be 18" and the top layer not less than 36" wide. **c.** For closed valleys (valley covered with shingles), valley lining of one ply of smooth roll roofing complying with ASTM D 6380 and not less than 36" wide or valley lining as described in Item 1 or 2 shall be permitted. Self-adhering polymer modified bitumen underlayment complying with ASTM D 1970 shall be permitted in lieu of their lining material.
7. **Ice barrier under layment is required.**
8. **A ladder must be on-site; tied off to the roof for the inspection, per OSHA guidelines.**
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