



**Community Development
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RESIDENTIAL REROOFING REQUIREMENTS

2006 International Residential Code

R907.3 Re-covering Versus Replacement:

New roof coverings shall not be installed without first removing existing roof coverings.

R905.2.4.1 Wind Resistance of Asphalt Shingles:

Asphalt shingles shall be installed in accordance with Section R905.2.6. Shingles classified using ASTM D 3161 are acceptable for use in wind zones less than 110 mph (49 m/s)

R907.5 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.

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.

R905.2.8.4 Sidewall Flashing:

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

R905.2.8.2 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 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
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 (457mm) 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 6380 Class S Type III, Class M Type II, or ASTM D 3909 and at least 36 inches wide (914 mm) 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.

R905.3.3.1 Low Slope Roofs:

For roof slopes from two and one-half units vertical in 12 units horizontal (2½:12), up to four units vertical in 12 units horizontal (4:12), underlayment shall be a minimum of two layers underlayment applied as follows:

1. Starting at the eave, a 19-inch (483 mm) strip of underlayment shall be applied parallel with the eave and fastened sufficiently in place.
2. Starting at the eave, 36-inch-wide (914 mm) strips of underlayment felt shall be applied, overlapping successive sheets 19 inches (483 mm), and fastened sufficiently in place.

R905.3.6 Fasteners:

Nails shall be corrosion resistant and not less than 11 gage, 5/16-inch (11 mm) head, and of sufficient length to penetrate the deck a minimum of ¾ inch (19 mm) or through the thickness of the deck, whichever is less. Attaching wire for clay or concrete tile shall not be smaller than 0.083 inch (2 mm). Perimeter fastening areas include three tile courses but not less than 36 inches (914 mm) from either side of hips or ridges and edges of eaves and gable rakes. (6 nail pattern typical for wind load) **Town of Erie wind load is 100 mph 3 second gust exposure C. Manufacture warranty is required to meet adopted wind loads.**

The Current Version of ASTM D 3161 (D3161 – 03b) has three Classes:

- Class “A” denotes Passing the Test at 60 mph
- Class “D” denotes Passing the Test at 90 mph
- Class “F” denotes Passing the Test at 110 mph.

R301.2.1.3 Wind speed conversion.

When referenced documents are based on fastest mile wind speeds, the three-second gust basic wind speeds, V3s, of Figure R301.2(4) shall be converted to fastest mile wind speeds, Vf m, using Table R301.2.1.3.

3-second gust, V3s	85	90	100	105	110	120	125	130	140	145	150	160	170
Fastest mile, Vf m	71	76	85	90	95	104	109	114	123	128	133	142	152

Town of Erie requires ASTM D 3161- F minimum shingle design

- ✓ **Ice shield is not required.**
- ✓ **Contractor is required to provide a ladder for mid roof inspection and final inspection.**
- ✓ **Mid roof inspection is required when roof is 25% to 70 % completed.**
- ✓ **Drip edge is required on eaves and not on rakes, but strongly recommended.**

If you have any questions please call 303-926-2780.

Thank you,

Bryon H. Horgen CBO
Chief Building Official