

2004 SUPPLEMENT TO THE IRC

beyond all edges of the hole. The Steel patch shall be fastened to the web with No. 8 screws (minimum) spaced no greater than 1 inch (25.4 mm) center-to-center along the edges of the patch, with a minimum edge distance of 0.5 inch (12.7 mm).

Section R804.3.6.1 Add new section as shown: (RB156-03/04)

R804.3.6.1 Holes exceeding limits. Where the depth of the hole exceeds 70% of the depth of the web or width of the hole exceeds 10 inches, the framing member shall be replaced or shall be re-designed in accordance with accepted engineering practice by a registered design professional.

Section R806.2 Change to read as shown: (RB231-03/04)

R806.2 Minimum area. The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that the total area is permitted to be reduced to 1/300, provided that 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 the eave or cornice vents with the balance of the required alternative, the net free cross-ventilation area may be reduced to 1/300 when a vapor barrier having a transmission rate not exceeding 1 perm (57.4mg/s.m².Pa) is installed on the warm-in-winter side of the ceiling.

Section R806.4 Add new section as shown: (EC48-03/04)

R806.4 Conditioned attic assemblies: Unvented conditioned attic assemblies (spaces between the ceiling joists of the top story and the roof rafters) are permitted under the following conditions:

1. No interior vapor retarders are installed on the ceiling side (attic floor) of the unvented attic assembly.
2. An air-impermeable insulation is applied in direct contact to the underside/interior of the structural roof deck. "Air-impermeable" shall be defined by ASTM E283.

Exception: In zones 2B and 3B, insulation is not required to be air impermeable.

3. In the warm humid locations as defined in Section N1101.2.1:
 - a. For asphalt roofing shingles: A 1-perm (57.4mg/s · m² · Pa) or less vapor retarder

(determined using Procedure B of ASTM E 96) is placed to the exterior of the structural roof deck; i.e., just above the roof structural sheathing.

- b. For wood shingles and shakes: a minimum continuous 1/4 -inch (6mm) vented air space separates the shingles/shakes and the roofing felt placed over the structural sheathing.
4. In zones 3 through 8 as defined in Section N1101.2, sufficient insulation is installed to maintain the monthly average temperature of the condensing surface above 45°F (7°C). The condensing surface is defined as either the structural roof deck or the interior surface of an air-impermeable insulation applied in direct contact to the underside/interior of the structural roof deck. "Air-impermeable" is quantitatively defined by ASTM E 283. For calculation purposes, an interior temperature of 68°F (20°C) is assumed. The exterior temperature is assumed to be the monthly average outside temperature.

Section R808.1 Change to read as shown: (EC48-03/04; EL3-03/04)

R808.1 Combustible insulation. Combustible insulation shall be separated a minimum of 3 inches (76 mm) from recessed luminaries, fan motors and other heat-producing devices.

Exception: Where heat-producing devices are listed for lesser clearances, combustible insulation complying with the listing requirements shall be separated in accordance with the conditions stipulated in the listing.

Recessed luminaries installed in the building thermal envelope shall meet the requirements of Section N1102.4.3.

CHAPTER 9 ROOF ASSEMBLIES

Section R905.1 Change to read as shown: (RB233-03/04)

R905.1 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 R301.2(2), adjusted for height and exposure in accordance with Table R301.2(3).