



RESIDENTIAL CONSTRUCTION ROOF ASSEMBLIES

QUICK-CARDS™ A UNIQUE ON-SITE REFERENCE GUIDE

Based on the
2015 International
Residential Code

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WEATHER PROTECTION

TERM ALERT!

- **Pen Flashing.** Corrosion-resistant flashing at the base of an opening that is integrated into the building exterior wall to direct water to the exterior and is pre-manufactured, fabricated, formed or applied at the job site.
- **Roof Assembly.** A system designed to provide weather protection and resistance to design loads. The system consists of a roof covering and roof deck or a single component serving as both the roof covering and the roof deck. A roof assembly includes the roof deck, vapor retarder, substrate or thermal barrier, insulation, vapor retarder and roof covering.
- **Scupper.** An opening in a wall or parapet that allows water to drain from a roof.
- **Shingle Fastener.** A method of installing roof or wall coverings, water-resistant barriers, flashing or other building components such that upper layers of material are placed overlying lower layers of material to provide drainage and protect against water intrusion at unwanted penetrations and joints or in combination with sealed joints.

WEATHER PROTECTION (R900.2)

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

FLASHING (R900.2 & R903.10)

Flashings must be installed in a manner that prevents moisture from 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.

Locations

- Flashings must be installed at wall and roof intersections, whenever there is a change in roof slope or direction and around roof openings.
- A flashing must be installed to divert the water away from where the eave of a sloped roof intersects a vertical sidewall.
- Where flashing is of metal, the metal must be corrosion resistant with a thickness of not less than 0.016" (No. 26 galvanized sheet).

Cickets & Saddles

- A cricket or saddle must be installed on the ridge side of any chimney or penetration more than 30" wide as measured perpendicular to the slope.
- Cricket or saddle coverings must be sheet metal or of the same material as the roof covering.

COPING (R903.2)

Parapet walls must be properly capped with noncombustible, weatherproof materials of a width not less than the thickness of the parapet wall.

ROOF DRAINAGE (R903.2)

Unless roofs are sloped to drain over roof edges, roof drains must be installed at each low point of the roof.

ROOFING - FLASHING



SECONDARY (EMERGENCY OVERFLOW) DRAINS OR SCUPPERS (R903.4)

- Where roof drains are required, secondary emergency overflow roof drains or scuppers must be provided where the roof penetrator construction extends across the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason.
- Overflow drains having the same size as the roof drains must be installed with the inlet flow line located 2" above the low point of the roof, or overflow scuppers having 3 times the size of the roof drains and having a min. opening height of 4" must be installed in the adjacent parapet walls with the inlet flow located 2" above the low point of the roof served.
- The installation and sizing of overflow drains, leaders and conductors must comply with Sections 1906 and 1908 of the International Plumbing Code, as applicable.
- Overflow drains must discharge to an approved location and must not be connected to roof drain lines.

ROOF COVERING - UNDERLAYMENT

UNDERLAYMENT



ROOF COVERING APPLICATION (R903.2)

- Roof coverings must comply with requirements of Section R905 and manufacturer's instructions.
- Unless otherwise specified, roof coverings must 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).

ICE BARRIERS (R903.1.2)

- Areas with a history of ice forming along eaves (Table R301.2(1)), must have an ice barrier installed for asphalt shingles, metal roof shingles, mineral-surfaced roll roofing, slate and stone-type shingles, wood shingles and wood shakes.
- The ice barrier must consist of 2 layers min. of underlayment cemented together, or a self-adhering polymer-modified bitumen sheet must be used in place of normal underlayment and extend from the lowest edges of all roof surfaces to a point not less than 24" inside the exterior wall line of the building.
- On roofs with slope equal to or greater than 8:12, the ice barrier must also be applied not less than 36" measured along the roof slope from the eave edge of the building.

UNDERLAYMENT (R903.1)

- Underlayment for asphalt shingles, clay and concrete tile, metal roof shingles, mineral-surfaced roll roofing, slate and stone-type shingles, wood shingles, wood shakes and metal roof panels must conform to the applicable standards of R905.
- Underlayment materials required to comply with ASTM D 226, D 1670, D 4850 and D 6757 must bear a label indicating compliance to the standard designation and, if applicable, type classification, see Table R903.1(1).
- Underlayment must be applied and attached in accordance with Tables R903.1(2) and R903.1(3).

UNDERLAYMENT TYPES (Table R903.1(2))

Roof Covering	Section	Maximum Ultimate Design Wind Speed, $V_{ult} \geq 140$ mph	Maximum Ultimate Design Wind Speed, $V_{ult} \geq 140$ mph
Asphalt shingles	R903.2	ASTM D 226 Type I ASTM D 4850 Type I, S, B or W ASTM D 6757	ASTM D 226 Type II ASTM D 4850 Type IV ASTM D 6757
Clay and concrete tile	R903.3	ASTM D 226 Type II ASTM D 2626 Type I ASTM D 6757 Class III mineral-surfaced roll roofing	ASTM D 226 Type II ASTM D 2626 Type I ASTM D 6757 Class III mineral-surfaced roll roofing
Metal roof shingles	R903.4	ASTM D 226 Type I or II ASTM D 4850 Type I, S, B or W	ASTM D 226 Type II ASTM D 4850 Type IV
Mineral-surfaced roll roofing	R903.5	ASTM D 226 Type I or II ASTM D 4850 Type I, S, B or W	ASTM D 226 Type II ASTM D 4850 Type IV
Slate and stone-type shingles	R903.6	ASTM D 226 Type I ASTM D 4850 Type I, S, B or W	ASTM D 226 Type II ASTM D 4850 Type IV
Wood Shingles	R903.7	ASTM D 226 Type I or II ASTM D 4850 Type I, S, B or W	ASTM D 226 Type II ASTM D 4850 Type IV
Wood Shakes	R903.8	ASTM D 226 Type I or II ASTM D 4850 Type I, S, B or W	ASTM D 226 Type II ASTM D 4850 Type IV
Metal Panels	R903.10	Manufacturer's instructions	ASTM D 226 Type II ASTM D 4850 Type IV

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