

City of Brandon

Building Department : Residential Roofing requirements 2015 IRC

The following are specific building code provisions relating to sheathing requirements, ice barriers, drip edges and wind resistance relating to the installation of shingled roofing systems.

SOLID SHEATHED DECKS

R905.2.1 Sheathing requirements. Asphalt shingles shall be fastened to solidly sheathed decks with spacings not exceeding ¼ inch.

ICE BARRIERS

R905.2.7.1 Ice barrier. In areas where there has been a history of ice forming along the eaves causing a backup of water as designated in Table R301.2(1), an ice barrier that consists of a least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet, shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches inside the exterior wall line of the building.

Exception: Detached *accessory structures* that contain no *conditioned floor area*.

**Table R301.2(1)
Climatic and Geographic Design Criteria**

9. ICE BARRIER UNDERLAYMENT REQUIREMENTYes

DRIP EDGES

R905.2.8.5 Drip edge. A drip edge shall be provided at eaves and gables of shingle roofs. Adjacent pieces of drip edge shall be overlapped a minimum of 2 inches. Drip edges shall extend a minimum of 0.25 inch below the roof sheathing and extend up the roof deck a minimum of 2 inches. Drip edges shall be

mechanically fastened to the roof deck at a maximum of 12 inches o.c. with fasteners as specified in Section R905.2.5. Underlayment shall be installed over the drip edge along eaves and under the underlayment on gables. Unless specified differently by the shingle manufacturer, shingles are permitted to be flush with the drip edge.

WIND RESISTANCE

R905.2.4 Asphalt shingles. Asphalt shingles shall comply with ASTM D 225 or D 3462.

R905.2.4.1 Wind resistance of 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(1) for the appropriate maximum basic 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(1).

Exception: Asphalt shingles not included in the scope of ASTM D 7158 shall be tested and *labeled* to indicate compliance with ASTM D 3161 and the required classification in Table R905.2.4.1(2).

TABLE R905.2.4.1(1)

CLASSIFICATION OF ASPHALT ROOF SHINGLES PER ASTM D 7158	
MAXIMUM BASIC WIND SPEED	CLASSIFICATION REQUIREMENTS
90MPH	D, G, or H

TABLE R905.2.4.1(2)

CLASSIFICATION OF ASPHALT SHINGLES PER ASTM D 3161	
MAXIMUM BASIC WIND SPEED	CLASSIFICATION REQUIREMENTS
90MPH	A, D, or F