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Asphalt Shingle Products that Conform to the International Residential Code (IRC) and the International Building Code (IBC)

Asphalt shingle roof coverings must be tested in accordance with ASTM D 7158 and must meet the required classification. In areas where the basic wind speed is 110 mph or 120 mph (allowable stress design), the required classification is Class G or Class H. In areas where the basic wind speed is 130 mph (allowable stress design), the required classification is Class H. The asphalt shingle packaging must bear a label to indicate compliance with ASTM D 7158 and the required classification, Class G or Class H. Refer to Table 1 for specific requirements.

As an alternative, asphalt shingle roof coverings installed in areas where the basic wind speed is less than or equal to 130 mph (allowable stress design) must be tested in accordance with ASTM D 3161, to the classification, Class F. The asphalt shingle packaging must bear a label to indicate compliance with ASTM D 3161 and the required classification, Class F. Refer to Table 1 for specific requirements.

Table 1. Asphalt Shingle Roof Covering Requirements

Applicability of Asphalt Shingle Tests to Catastrophe Zones			
Zone	Basic Wind Speed	ASTM D 3161	ASTM D 7158
Inland II	110 mph	Class F	Class G or Class H
Inland I	120 mph	Class F	Class G or Class H
Seaward	130 mph	Class F	Class H

Asphalt shingle manufacturers have tested their asphalt shingle roof covering products to these standards and the asphalt shingle wrappers must bear a label indicating compliance with ASTM D 3161, Class F or ASTM d 7158 Class G or Class H.

Asphalt shingles must be installed as specified on the asphalt shingle wrapper in accordance with the normal installation instructions specified on the wrapper.

Wind Resistance of Asphalt Shingles Summary:

ASTM D 3161, Class F – Asphalt shingles tested and labeled on the wrapper as conforming to ASTM D 3161, Class F are acceptable for installation where the basic wind speed is less than or equal to 130 mph (allowable stress design).

ASTM D 7158 – Asphalt shingles tested and labeled on the wrapper as conforming to ASTM D 7158, Class G are acceptable for installation where the basic wind speed is less than or equal to 120 mph. Asphalt shingles tested and labeled on the wrapper as conforming to ASTM D 7158, Class H are acceptable for installation where the basic wind speed is less than or equal to 130 mph.

Note: Asphalt shingles must conform to the appropriate classification for either ASTM D 3161 or ASTM D 7158. Conformance with more than one standard is not required. Asphalt shingles must be installed in accordance with the normal installation instructions specified on the shingle wrapper.