

MEMORANDUM

DATE: July 10, 2009 (Updates September 11, 2007 memo)
TO: Approved Third Party Certification Agencies
FROM: Alan D. Greene, P.E. -- Chief Building Code Consultant, Manufactured Building Division
RE: Fasteners for Shingles in High Wind Zones

Section R905.2.6 of the *NC Residential Code, 2009 Edition* requires, for “normal application” that asphalt shingles be secured to the roof with “not less than four fasteners per strip shingle or two fasteners per individual shingle”. Most shingle installation instructions will specify six (6) fasteners as a “*mansard or high wind fastening pattern*”, “*where required by local code*”, or similar language. Former residential code editions often led to the question of exactly what constitutes a “high wind” area, and what is required by “local code”. The *2009 Edition* provides this information as an exception to **R905.2.6** requirements, as follows:

Exception: Asphalt strip shingles shall have a minimum of six fasteners per shingle where the roof is in one of the following categories:

- 1. The basic wind speed per Figure R301.2(4) is 110 mph or greater and the eave is 20 feet or higher above grade.*
- 2. The basic wind speed per Figure R301.2(4) is 120 mph or greater.*
- 3. Special wind zones per Figure R301.2(4).*

Third party agencies are requested to insure that modular manufacturers adhere to these guidelines.

cc: C. Patrick Walker, P.E. -- Technical Services Manager
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