



April 2, 2008

MEMORANDUM

BULLETIN G-04-08

To: All Permit Applicants

From: Thomas H. Goldsbury, P.E., C.B.O.
Chief, Building Inspection Division

Subject: Clarification of Roof Replacement Requirements for Single Family Structures

The intent of this Bulletin is two fold, first to provide information on roof replacement inspection and permitting requirements, and second to provide clarification on recent Revised Rule 9B-0475, Hurricane Mitigation Retrofits for Existing Site-Built Family Residential Structures. Please keep in mind that both items concern the **replacement** roofing of **residential single family site built homes ONLY**. Also, this **does not** include roofing over an existing roof.

Inspection and Permitting Requirements

1. Effective for all roof replacement permits using shingles submitted on or after April 6, 2008, the "Roofing in Progress" inspection will be replaced by a "Roofing in Progress/Dry-in" inspection. The purpose of the inspection is to confirm any required deck nailing and proper installation of the secondary water barrier as required by Rule 9B-0475. This inspection will be required for all roof replacement permits with a "Cost of Work" greater than \$5,000.00 (permits that do not Auto-Expire) and permits selected randomly for quality assurance. At time of inspection the roof deck must have all required additional nailing completed, and at least 30% of the required secondary moisture barrier completed. If you are installing a roof replacement in phases, the first phase must be at the stage noted above at the time of inspection. At your own risk you may proceed with shingle installation, but no more than 50% of the shingles may be replaced prior to obtaining this inspection.

Please note: Our previous statement in Bulletin G-15-07 "Do not hold up any installation of the re-roofing material waiting for this inspection" **No Longer Applies**. This is now a required inspection that must be passed before the roof replacement is completed.

2. Where roof-to-wall connections must be improved as required by section 101.2 of the referenced rule, and it is potentially damaging to leave the work area open waiting on an inspection, the attached **Inspection Affidavit** may be submitted by a licensed contractor, architect, engineer or building inspector to confirm that the improvements have been completed per the issued permit.
3. For permitting purposes, for those structures valued over \$300,000.00 as stated in section 101.2, the same **Inspection Affidavit** may be used to verify that roof-to-wall improvements are not required.
4. A review of our files showed that all structures permitted after January 1, 1995, were required to have the required structural load path and will be deemed to comply with section 101.2 and not require roof-to-wall improvements.

Clarification of Revised Rule 9B-0475

1. Two significant changes in Revised Rule 9B-0475 are in sections **201.1 Roof sheathing fastening for site-built single family residential structures** and **R201.2 Roof secondary water barrier for site-built single family residential structures**. These sections are attached for your reference.
 - a. The roof deck fastening requirements of section 201.1 have been revised, please see attached for various options.
 - b. The secondary water barrier requirements of section 201.2 have also been revised including additional options and specific fastening requirements. Please refer to the copy attached for more detail.

The City of Jacksonville
Building Inspection Division

Roofing Permit # _____

Inspection Affidavit

I, _____, licensed as a _____ Contractor*/Engineer/Architect, or Building Inspector*
(print name) (print type) (circle one)

License #: _____

on or about _____ did personally inspect the **roof-to-wall connections as required by Rule 9B-3.0475** at _____,
(Job Site Address)

Based upon that examination I have determined: (circle one)

- a. the installation was done according to the prescriptive methods in the Hurricane Mitigation Retrofit Manual (Based on 553.844 F.S.).
- b. the installation was done according to approved permits. Building Permit No. B _____
- c. the roof-to-wall connections and/or roof-to-foundation continuous load path requirements were previously installed.

Signature

STATE OF FLORIDA

COUNTY OF _____

Sworn to and subscribed before me this _____ day of _____, 200__

By _____.

Notary Public, State of Florida

(Print, type or stamp name)

Commission No.: _____

Personally known _____ or

Produced Identification _____

Type of identification produced. _____

* General, Building, or Residential Contractor or any individual certified under 468 F.S. to make such an inspection. Include photographs of each plane of the roof with the permit # or address # clearly shown marked on the deck for each inspection.

201 Roof System Mitigation Techniques. Roof sheathing fastening, secondary water barriers, roof to wall connection and gable end bracing shall be permitted pursuant to this section.

201.1 Roof sheathing fastening for site-built single family residential structures. For site-built single family residential structures the fasteners and spacing required in Table 201.1 are deemed to comply with the requirements of Section 507.2.2, of the 2004 Florida Building Code, Existing Building.

Board roof decking secured with at least two 8d nails into roof framing members shall be deemed to be sufficiently connected. Board roof decking secured with smaller fasteners than 8d nails or with fewer than two 8d nails per board shall be deemed sufficiently connected if two 8d clipped head, round head, or ring shank nails are in place on each framing member.

Supplemental fasteners as required by Table 201.1 shall be 8d ring shank nails with round heads and the following minimum dimensions:

1. 0.113 inch nominal shank diameter
2. Ring diameter of 0.012 over shank diameter
3. 16 to 20 rings per inch
4. 0.280 inch full round head diameter
5. Ring shank to extend a minimum of 1 ½” from the tip of the nail.
6. Minimum 2-1/4 inch nail length

**Table 201.1
Supplement Fasteners at Panel Edges and Intermediate Framing**

Existing fasteners	Existing spacing	Wind speed 110 mph or less supplemental fastening shall be no greater than	Wind speed greater than 110 mph supplemental fastening shall be no greater than
Staples or 6d	Any	6” o.c. ^b	6” o.c. ^b
8d clipped head, round head, or ring shank	6” o.c. or less	None necessary	None necessary
8d clipped head, round head, or ring shank	Greater than 6” o.c.	6” o.c. ^a	6” o.c. ^{b a}

- a. Maximum spacing determined based on existing fasteners and supplemental fasteners.
- b. Maximum spacing determined based on supplemental fasteners only.

201.2 Roof secondary water barrier for site-built single family residential structures. A secondary water barrier shall be installed using one of the following methods when reroofing.

- a) All joints in structural panel roof sheathing or decking shall be covered with a minimum 4 in. wide strip of self-adhering polymer modified bitumen tape applied directly to the sheathing or decking. The deck and self adhering polymer modified bitumen tape shall be covered with one of the underlayment systems approved for the particular roof covering to be applied to the roof.
- b) The entire roof deck shall be covered with an approved self-adhering polymer modified bitumen sheet. No additional underlayment shall be required on top of this sheet for new installations.
- c) The entire roof deck shall be covered with an approved asphalt impregnated 30# felt underlayment installed with nails and tin-tabs as required for the HVHZ. (No additional underlayment shall be required over the top of this sheet).

d) Outside of the HVHZ, an underlayment complying with section 1507.2.3 of the Florida Building Code, Building fastened as described below or a layer of asphalt impregnated approved #30 felt shall be installed. The felt is to be fastened with 1” round plastic cap or metal cap nails, attached to a nailable deck in a grid pattern of 12 inches (305 mm) staggered between the overlaps, with 6-inch (152 mm) spacing at the overlaps. For slopes of 2:12 to 4:12 an additional layer of felt shall be installed in a shingle-fashion and lapped 19” and fastened as described above. (No additional underlayment shall be required over the top of this sheet).

Exceptions:

1. Roof slopes < 2:12 having a continuous roof system shall be deemed to comply with section 201.2 requirements for a secondary water barrier.
2. Clay and Concrete tile roof systems installed as required by the Florida Building Code are deemed to comply with the requirements of section 201.2 for Secondary Water Barriers.