



Florida Roofing Sheet Metal & Air Conditioning Contractors Association, Inc.
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January 21, 2009

Petition for Declaratory Statement before the Florida Building Commission

By: Florida Roofing, Sheet Metal & Air Conditioning Contractors Association, Inc.

Issue: 2007 FBC, Existing Edition, Section 611.7.1

611.7.1 Roof decking attachment for site-built single family residential structures. For site-built single family residential structures the fastening shall be in accordance with section 611.7.1.1 or 611.7.1.2 as appropriate for the existing construction. 8d nails shall be a minimum of 0.141 inch in diameter and shall be a minimum of 2-1/4 inch long to qualify for the provisions of this section for existing nails regardless of head shape or head diameter.

The FRSA has recently discovered that the 0.141 diameter nail referenced above is not readily available and research shows special ordering would be required as stated by a large majority of distributors that were contacted. The commonly stocked diameter nail is 0.131 when using ring shank, 2.25" length, round head fasteners. It was stated that 0.141 diameter nails would not work in a majority of pneumatic nail guns as well.

The 0.141 language originated at the January 28, 2008 wind mitigation workgroup meeting. See link below. Page 8.

[http://www.dca.state.fl.us/fbc/thecode/Hurricane Mitigation Techniques Minutes0208.pdf](http://www.dca.state.fl.us/fbc/thecode/Hurricane%20Mitigation%20Techniques%20Minutes0208.pdf)

Question 1. : Is 0.141 diameter a typographical error? And should it be 0.131?

Question 2. : Is 0.131 diameter, 2.25" ring shank nails (commonly stocked) acceptable for use when re-nailing existing decks per the above code?

Respectfully submitted,

Brad Weatherholtz
Director of Technical Services
FRSA

02A09-DEC-025
FILING AND ACKNOWLEDGMENT
FILED, on this date, with the designated
Clerk, receipt of which is hereby
acknowledged.
Paula P. Ford 1/23/09
Paula P. Ford Date
Commission Clerk

Language as listed in the 2007 Supplements,
http://www.dca.state.fl.us/FBC/thecode/Draft_trackingcharts_to_comm_june_08.htm

[Mod 3208]

Section 611.7 add text to read as follows:

611.7 When a roof covering on an existing site-built - single family residential structure is removed and replaced, the following procedures shall be permitted to be performed by the roofing contractor:

(a) Roof-decking attachment shall be as required by Section 611.7.1.

(b) A secondary water barrier shall be provided as required by section 611.7.2.

Exception: Single family residential structures permitted subject to the Florida Building Code are not required to comply with this section.

611.7.1 Roof decking attachment for site-built single family residential structures. For site-built single family residential structures the fastening shall be in accordance with section 611.7.1.1 or 611.7.1.2 as appropriate for the existing construction. 8d nails shall be a minimum of 0.141 inch in diameter and shall be a minimum of 2-1/4 inch long to qualify for the provisions of this section for existing nails regardless of head shape or head diameter.

611.7.1.1 Roof decking consisting of sawn lumber or wood planks up to 12” wide and secured with at least two nails (minimum size 8d) to each roof framing member it crosses shall be deemed to be sufficiently connected. Sawn lumber or wood plank decking secured with smaller fasteners than 8d nails or with fewer than two nails (minimum size 8d) to each framing member it crosses shall be deemed sufficiently connected if fasteners are added such that two clipped head, round head, or ring shank nails (minimum size 8d) are in place on each framing member it crosses.

611.7.1.2 For roof decking consisting of wood structural panels, fasteners and spacing required in columns 3 and 4 of Table 611.7.1.2 are deemed to comply with the requirements of Section 606.3, Florida Building Code, Existing Building for the indicated design wind speed range. Wood structural panel connections retrofitted with a two part urethane based closed cell adhesive sprayed onto the joint between the sheathing and framing members are

deemed to comply with the requirements of Section 606.3, Florida Building Code, Existing Building, provided testing using the manufacturer's recommended application on panels connected with 6d smooth shank nails at no more than a 6-inch edge and 12-inch field spacing demonstrate an uplift resistance of a minimum of 200 psf.

Supplemental fasteners as required by Table 611.7.1.2 shall be 8d ring shank nails with round heads and the following minimum dimensions:

1. 0.113-inch nominal shank diameter
2. Ring diameter a minimum of 0.012-inch-greater than shank diameter
3. 16 to 20 rings per inch
4. A minimum 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 611.7.1.2

Supplement Fasteners at Panel Edges and Intermediate Framing

<u>Existing fasteners</u>	<u>Existing spacing</u>	<u>Wind speed 110 mph or less supplemental fastener spacing shall be no greater than</u>	<u>Wind speed greater than 110 mph supplemental fastener spacing shall be no greater than</u>
<u>Staples or 6d</u>	<u>Any</u>	<u>6" o.c.^b</u>	<u>6" o.c.^b</u>
<u>8d clipped head, round head, smooth or ring shank</u>	<u>6" o.c. or less</u>	<u>None necessary</u>	<u>None necessary</u>
<u>8d clipped head, round head, smooth or ring shank</u>	<u>Greater than 6" o.c.</u>	<u>6" o.c.^a</u>	<u>6" o.c.^a</u>

a. Maximum spacing determined based on existing fasteners and supplemental fasteners.

b. Maximum spacing determined based on supplemental fasteners only.