Proposed Modification to the Florida Building Code

Modification #: Section 553.73, Fla Stat

Name: Building Code Advisory Board of Palm Beach County

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Code: **Building**Section #: Table 2309.3A

Text of Modification [additions <u>underlined</u>; deletions <u>stricken</u>]:

TABLE 2309.3A

ALLOWABLE LOAD (PSF) FOR WOOD STRUCTURAL PANEL ROOF SHEATHING⁶ OVER TWO OR MORE

SPANS AND LONG DIMENSION PARALLEL TO SUPPORTS (WOOD STRUCTURAL PANELS ARE OSB, COMPOSITE AND 5-PLY, 5-LAYER UNLESS OTHERWISE NOTED)¹

Panel Grade	Thickness (in) ⁶	Span Rating ⁶	Max. Span (in)	Load at Maximum Span (psf)	
				Live	Total
Structural I Sheathing	7/16 15/32	24/0, 24/16 32/16	24 ⁴	20 35 ²	30 45 ²
	1/2 19/32, 5/8 23/32, 4/4	32/16 40/20 48/24	24 24 24	35 ² 40 ² 70 90	<mark>50².</mark> 80 100
Sheathing	7/16 ⁵ 15/32 ⁵ 1/2 19/32	24/0, 24/16 32/16 24/0, 32/16 40/20	16 24 ⁴ 24 ⁴	40 20 25 40 ³	50 25 30 50 ³
	5/8 23/32, 3/4	32/16, 40/20 40/20, 48/24	24 24	45 ³ 60 ³	55 ³ 65 ³

For SI: 1 inch=25.4mm, $1psf = 4.882 \text{ kg/m}^2$

Notes:

1. Uniform load deflection limitations: 1/180th of span under live load plus dead load, 1/240th live

load only. Edges shall be blocked with lumber or other approved type of edge supports.

- 2. For composite and 4-ply plywood marked PS 1, load shall be reduced by 15 psf.
- 3. For composite and 4-ply wood panels, load shall be reduced by 15 psf.
- 4. Edges shall have solid blocking for 24-inch span.
- 5. Composite panels shall be 19/32-inch or thicker.
- 6. In no case shall any roof sheathing be less than 32/16 span index, 19/32-in. wood structural panel for spans 16-inches or more on center in wind speed regions of 110-140mph, Exposure B. Span ratings and panel thickness highlighted in the table shall not be permitted where wind speeds exceed 100 mph.

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Fiscal Impact Statement [Provide documentation of the costs and benefits of the proposed modifications to the code for each of the following entities. Cost data should be accompanied by a listing of assumptions and supporting documentations. Explain expected benefits.]:

A.Impact to local entity relative to enforcement of code:

None

B.Impact to building and property owners relative to cost of compliance with code:

None

C. Impact to industry relative to cost of compliance with code:

None

Please explain how the proposed modification meets the following requirements:

- 1.Has a reasonable and substantial connection with the health, safety, and welfare of the general public: Yes
- 2.Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction:

Strengthens code by addressing limitations contained in Section 2301.1.2 and its referenced Sections: 2306 Fastenings, 2307 Floor Framing, 3208 Vertical Framing and, 2309 Roof and Ceiling Framing, which permits general use of the referenced standards for wind speed areas of 100mph or less. The modifications to Table 2309.3A improve code effectiveness by more specifically addressing minimum plywood span index ratings and panel thickness for roof sheathing in Florida's most prevalent wind speed areas, i.e., those exceeding 100mph, noted as follows:

Per Figure 1606, State of Florida Basic Wind Speed Map

Wind Speed Region	Approx Number of Counties Partially or Wholly in Wind Region
100mph	10
110mph	35
120mph	42
130mph	25
140mph	8

3. Does hot discriminate against materials, products, methods, or systems of construction of demonstrated capabilities:

No

4. Does not degrade the effectiveness of the code:

Improves utility and effectiveness of code by categorizing/delineating the appropriate panel spans and thicknesses for structural panel roof sheathing applicable to wind speed areas of 100 mph or less, and those span ratings and thicknesses required for Florida's predominant wind speed areas exceeding 100mph.

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Committee Action: Committee Action: Committee Action: Committee Action:

Committee Reason: Committee Reason: Committee Reason: Committee Reason:

Commission Action: Commission Action: Commission Action: Commission Action:

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