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NEW METAL ROOF AND ROOF REPLACEMENT ONE AND TWO FAMILY DWELLINGS ONLY

Florida Residential Building Code 7th Edition 2020

Summary of worst case design uplift pressures (PSF) for Zone – 3 per Table R301.2 (2)
 For buildings with a mean roof height of 30 FT. or less in Exposure B,C or D
 Adjusted for Height and Exposure Coefficients from Table R301.2 (3)

Gable and Flat Roofs

Roof Slope	Effective Wind Area	Zone	One Story 160 MPH Exposure B	Two Story 160 MPH Exposure B	One Story 160 MPH Exposure C	Two Story 160 MPH Exposure C	One Story 160 MPH Exposure D	Two Story 160 MPH Exposure D
>0-2:12 (0 to 7 deg)	10 sf	3	-64.9	-79.1	-95.7	-110.7	-116.3	-131.3
>2:12 - 4 1/2:12 (>7 to 20 deg)	20sf	3r	-62.2	-75.9	-91.8	-106.26	-111.6	-126.0
>4 1/2:12 - 6:12 (>20 to 27 deg)	20sf	3r	-51.5	-62.8	-76.0	-88.0	-92.3	-104.2
>6:12 – 12:12 (> 27 to 45 deg)	20sf	3e	-45.7	-55.7	-67.4	-78.0	-81.9	-92.5

Hip Roofs

Roof Slope	Effective Wind Area	Zone	One Story 160 MPH Exposure B	Two Story 160 MPH Exposure B	One Story 160 MPH Exposure C	Two Story 160 MPH Exposure C	One Story 160 MPH Exposure D	Two Story 160 MPH Exposure D
>2:12 - 4 1/2:12 (>7 to 20 deg)	20sf	2e,3	-48.1	-58.6	-48.1	-82.0	-86.1	-97.3
>4 1/2:12 - 6:12 (>20 to 27 deg)	20sf	2e,2r,3	-37.4	-45.6	-55.2	-63.8	-67.0	-75.7
>6:12 – 12:12 (> 27 to 45 deg)	20sf	3	-39.0	-47.5	-66.5	-66.5	-69.8	-78.9

Note: With the exception of Flat Roofs, effective wind area of 20sf was used for Zone -3 per Table R301.2(2). Corner Zone-3 is 16 sf in all cases per Figure R-301.2(7). Smaller effective wind areas will result in increased uplift pressures.

* One story building with a maximum mean roof height of 15 feet.

PERMIT SUBMITTAL NEEDS TO INCLUDE:

ONE COPY OF PRODUCT APPROVALS FOR UNDERLAYMENT AND METAL ROOFING WITH INSTALLATION INSTRUCTIONS, SLOPE OF ROOF, TYPE OF ROOF (GABLE OR HIP) AND TYPE OF INSTALLATION SUCH AS GO OVER OR BATTEN STRIPS MUST BE INDICATED ON APPLICATION.