



HOME OF PELICAN ISLAND
 BUILDING DEPARTMENT
 1225 MAIN STREET • SEBASTIAN, FLORIDA 32958
 TELEPHONE: (772) 589-5537 • FAX (772) 589-2566

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

Florida Residential Building Code 5th Edition 2014

Summary of worst case design uplift pressures (PSF) for Zone – 3 per Table R301.2 (2)

Modified for nominal wind speeds V_{asd} in accordance with R301.2.1.7

For buildings with a mean roof height of 30 FT. or less in Exposure B,C or D

Section R905.10.5 – The installation of metal roof panels shall be limited to roofs where the allowable uplift resistance is equal to or greater than the design uplift pressure for the roof listed in Table R301.2(2)

Roof Slope	Effective Wind Area	Zone	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)	20sf	3	+10.6 / -57.8	+12.8 / -69.9	+14.8 / -80.9	+15.6 / -85.0	+17.6 / -95.9
>2:12- 6:12 (>7 to 27 deg)	20sf	3	+14.5 / -60.8	+17.5 / -73.6	+20.3 / -85.1	+21.3 / -89.4	+24.1 / -100.9
>6:12- 12:12 (>27 to 45 deg)	20sf	3	+24.6 / -31.0	+29.8 / -37.5	+34.4 / -43.4	+36.2 / -45.6	+40.8 / -51.5

Note: Effective wind area of 20sf 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.

SUBMIT TWO SETS OF PRODUCT APPROVAL FOR UNDERLAYMENT AND METAL ROOFING. SLOPE OF ROOF AND TYPE OF INSTALLATION SUCH AS GO OVER OR BATTEN STRIPS MUST BE INDICATED ON APPLICATION.