

WHY METRO?



Smart Roofs for Smart People™

WIND

High Wind— Metro roofing installed with standard fastening pattern is covered under the 120-mph wind warranty. This is enough for most areas of the country but not all. The most stringent uplift pressure for residential roofs is in Dade County FL and is the “150-mph Exp-’C”, Zone-3 ‘Corner’ which requires this section of a roof to withstand ⁽¹⁾109.9-psf uplift force.

Metro—Tested to Extremes—⁽²⁾Wind-Uplift testing at UL in Chicago proved that Metro batten-less panels can out-perform our battened systems for uplift resistance. In one test UL’s Uplift test chamber was pushed to an all time high of 307-psf uplift force. The test report reads;

“Prior to and during the attainment of the 307-psf pressure, there was no sign of fastener pull-out or damage to any of the panels. The roofing system did not fail, the maximum capacity of the apparatus was reached.”

Its this sort of performance that clearly answers ‘**Why Metro?**’

Metro SMART wind Design- To support the Metro team of contractors, we now have two (2) options for permit applications in High Wind areas, commonly referred to as HVHZ areas (High Velocity Hurricane Zone). Copies of the Metro’s HVHZ approvals can be found on our website at the following link. (<http://www.metroroofs.com/highwind.html>). In both approvals Miami-Dade NOA # 06-0911.05 and FL # 6710 the contractor can select either a Batten application or a Direct-to-Deck install. For steep pitched roofs the Batten application allows a grid system for the installers to walk on while the Direct-to-Deck batten-Less method ensures high-wind security using the double ‘X’ pattern of fasteners.

Mean Roof Height (ft)	Perimeter Edge (P2)	Corner (P3)
1-1.99	40.0 psf	40.0 psf
2.00-2.99	45.0 psf	45.0 psf
3.00-3.99	50.0 psf	50.0 psf
4.00-4.99	55.0 psf	55.0 psf
5.00-5.99	60.0 psf	60.0 psf
6.00-6.99	65.0 psf	65.0 psf
7.00-7.99	70.0 psf	70.0 psf
8.00-8.99	75.0 psf	75.0 psf
9.00-9.99	80.0 psf	80.0 psf
10.00-10.99	85.0 psf	85.0 psf
11.00-11.99	90.0 psf	90.0 psf
12.00-12.99	95.0 psf	95.0 psf
13.00-13.99	100.0 psf	100.0 psf
14.00-14.99	105.0 psf	105.0 psf
15.00-15.99	110.0 psf	110.0 psf
16.00-16.99	115.0 psf	115.0 psf
17.00-17.99	120.0 psf	120.0 psf
18.00-18.99	125.0 psf	125.0 psf
19.00-19.99	130.0 psf	130.0 psf
20.00-20.99	135.0 psf	135.0 psf
21.00-21.99	140.0 psf	140.0 psf
22.00-22.99	145.0 psf	145.0 psf
23.00-23.99	150.0 psf	150.0 psf
24.00-24.99	155.0 psf	155.0 psf
25.00-25.99	160.0 psf	160.0 psf
26.00-26.99	165.0 psf	165.0 psf
27.00-27.99	170.0 psf	170.0 psf
28.00-28.99	175.0 psf	175.0 psf
29.00-29.99	180.0 psf	180.0 psf
30.00-30.99	185.0 psf	185.0 psf
31.00-31.99	190.0 psf	190.0 psf
32.00-32.99	195.0 psf	195.0 psf
33.00-33.99	200.0 psf	200.0 psf
34.00-34.99	205.0 psf	205.0 psf
35.00-35.99	210.0 psf	210.0 psf
36.00-36.99	215.0 psf	215.0 psf
37.00-37.99	220.0 psf	220.0 psf
38.00-38.99	225.0 psf	225.0 psf
39.00-39.99	230.0 psf	230.0 psf
40.00-40.99	235.0 psf	235.0 psf
41.00-41.99	240.0 psf	240.0 psf
42.00-42.99	245.0 psf	245.0 psf
43.00-43.99	250.0 psf	250.0 psf
44.00-44.99	255.0 psf	255.0 psf
45.00-45.99	260.0 psf	260.0 psf
46.00-46.99	265.0 psf	265.0 psf
47.00-47.99	270.0 psf	270.0 psf
48.00-48.99	275.0 psf	275.0 psf
49.00-49.99	280.0 psf	280.0 psf
50.00-50.99	285.0 psf	285.0 psf
51.00-51.99	290.0 psf	290.0 psf
52.00-52.99	295.0 psf	295.0 psf
53.00-53.99	300.0 psf	300.0 psf
54.00-54.99	305.0 psf	305.0 psf
55.00-55.99	310.0 psf	310.0 psf
56.00-56.99	315.0 psf	315.0 psf
57.00-57.99	320.0 psf	320.0 psf
58.00-58.99	325.0 psf	325.0 psf
59.00-59.99	330.0 psf	330.0 psf
60.00-60.99	335.0 psf	335.0 psf
61.00-61.99	340.0 psf	340.0 psf
62.00-62.99	345.0 psf	345.0 psf
63.00-63.99	350.0 psf	350.0 psf
64.00-64.99	355.0 psf	355.0 psf
65.00-65.99	360.0 psf	360.0 psf
66.00-66.99	365.0 psf	365.0 psf
67.00-67.99	370.0 psf	370.0 psf
68.00-68.99	375.0 psf	375.0 psf
69.00-69.99	380.0 psf	380.0 psf
70.00-70.99	385.0 psf	385.0 psf
71.00-71.99	390.0 psf	390.0 psf
72.00-72.99	395.0 psf	395.0 psf
73.00-73.99	400.0 psf	400.0 psf
74.00-74.99	405.0 psf	405.0 psf
75.00-75.99	410.0 psf	410.0 psf
76.00-76.99	415.0 psf	415.0 psf
77.00-77.99	420.0 psf	420.0 psf
78.00-78.99	425.0 psf	425.0 psf
79.00-79.99	430.0 psf	430.0 psf
80.00-80.99	435.0 psf	435.0 psf
81.00-81.99	440.0 psf	440.0 psf
82.00-82.99	445.0 psf	445.0 psf
83.00-83.99	450.0 psf	450.0 psf
84.00-84.99	455.0 psf	455.0 psf
85.00-85.99	460.0 psf	460.0 psf
86.00-86.99	465.0 psf	465.0 psf
87.00-87.99	470.0 psf	470.0 psf
88.00-88.99	475.0 psf	475.0 psf
89.00-89.99	480.0 psf	480.0 psf
90.00-90.99	485.0 psf	485.0 psf
91.00-91.99	490.0 psf	490.0 psf
92.00-92.99	495.0 psf	495.0 psf
93.00-93.99	500.0 psf	500.0 psf
94.00-94.99	505.0 psf	505.0 psf
95.00-95.99	510.0 psf	510.0 psf
96.00-96.99	515.0 psf	515.0 psf
97.00-97.99	520.0 psf	520.0 psf
98.00-98.99	525.0 psf	525.0 psf
99.00-99.99	530.0 psf	530.0 psf
100.00-100.99	535.0 psf	535.0 psf

FL- High Wind Design Detail Sheet



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The opinions expressed in this paper are based on industry experience, independent testing, and analysis by Metro engineers. The purpose, is to explain and promote the unique and distinctive benefits a Stone-Coated Steel roof from Metro can provide.

¹ Florida Building Code 2004 Edition, RAS 127-Table 1 Min Design Wind Uplift Pressure P1, P2, & P3. with a Mean roof height-40ft..
² Metro High Wind Uplift tests 12/19/05, UL Proj.# 05NK26978 using UL-1897 & 580 test formats.

