

WHY METRO?



WIND

High Wind— Metro roof systems with standard installation are 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.

Wind Speed	Exposure	Mean Roof Height	Minimum Design Uplift Pressure (psf)
120	C	40 ft	109.9
130	C	40 ft	125.0
140	C	40 ft	140.1
150	C	40 ft	155.2

FL- High Wind Design Detail Sheet



Smart Roofs for Smart People™

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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.