

WHY METRO?



BATTEN-LESS

BATTEN-LESS Panels— Metro offers its Shake, Tile & Roman profiles in an innovative design, allowing them to exceed the wind-uplift strength of panels installed with battens. The uniqueness is in the panels back-flange, angled nose sections and twice as many fasteners in an ‘X’ pattern as a battened panel. It’s these Metro Batten-Less attributes that in December of 2005 during ⁽¹⁾Wind-Uplift testing at UL in Chicago proved that batten-less panels can out-perform Metro’s 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;

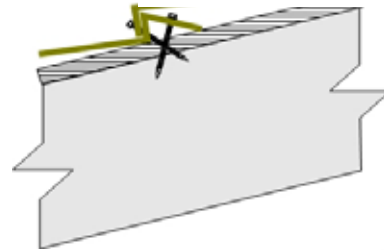
“Prior to and during the attainment of the 307-psf pressure, there was no sign of fastener pull-out or damage to any of the panels. The roofing system did not fail, the maximum capacity of the apparatus was reached.”

The most stringent wind-uplift region of the US is in Dade County FL and their Product Control Approval known as an NOA defines the Maximum Design Uplift Pressure a product can withstand after applying the standard safety factor of 2 to the tested pressures. ⁽²⁾**153.5-psf** is Metro’s Dade NOA pressure the **highest of any stone-coated steel panel on the market today**. Its this sort of performance that clearly answers ‘Why Metro?’

METRO Batten-Less ‘X’ Pattern

BATTEN-LESS Difference — Homeowners receive an immediate benefit by going ‘Batten-Less’ - making the Metro panels easy to walk on and earthquake strong due to their interlocking design and direct to the roof deck installation.

The unique double fastening ‘X’ pattern of fasteners is what allows the **Metro Batten-Less panel** to be currently, the ⁽³⁾**highest uplift rated stone-coated steel roof panel in the industry**. Perfect for the extreme high-wind coastal requirements of Florida.



‘X’ Pattern fastening of Metro Batten-Less panels installed with Ring Shank nails. 2-3/8” X .131” dia.



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 Metro High Wind Uplift tests 07/26/06, UL Proj.# 06CA38220 using UL-1897 & 580 test formats.

² Dade Co., Florida NOA # 06-0911.05 Approved 11/09/06.

³ Based on recent UL tests as of July 2006 (see 1. above)