

# WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

15211 97<sup>th</sup> Road N  
West Palm Beach, FL 33412  
Ph/Fx: (561) 225-1982

## PRODUCT EVALUATION

PRODUCT: SENTRIGARD ML150 SERIES 24 Ga. STEEL ROOF PANEL  
20" WIDE x 1 1/2" STANDING SEAM, over 5/8" PLYWOOD.  
SINGLE (90°) SEAM or DOUBLE (180°) SEAM (HVHZ)

MANUFACTURER: SENTRIGARD METAL ROOFING SYSTEMS, LLC.  
65 10<sup>TH</sup> STREET  
LYNCHBURG, VA 24504

To all concerned,

The ML150 Series Standing Seam Roof Panel, manufactured by Sentrigard Metal Roofing Systems LLC, is a non-structural 20" wide x 1 1/2" standing seam Flouropon Coated 24 Ga. Steel roof panel (56 ksi min) that meets the requirements of Sections 1507.4 and 1518.9 of the 8<sup>th</sup> Edition (2023) Florida Building Code. The panel has been tested per TAS 100, TAS 110, TAS 125, and ASTM E2140 by Intertek B&C, with results shown in test reports N6789.02-450-18-R2, N6789.03-450-18, N6789.04-450-18, and N6789.08-450-18-R2. It has also been tested per ASTM G154 (2016) by Sherwin Williams test lab.

### Technical Documentation:

1. Drawing "ML15S20-HZ" dated 6/25/24 (Rev. 3), signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Intertek B&C. signed and sealed by Tyler Westerling, PE.
3. Supplemental Calculations to support ML15S20-HZ, signed and sealed by Scott Wolters, PE.

I have reviewed this submittal per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). Based on the limitations listed below and those provided in the documents above, this product meets all the requirements of the 8<sup>th</sup> Edition (2023) Florida Building Code generally, and chapter 15 specifically, including the High Velocity Hurricane Zone (HVHZ) provisions.

Limitations: This panel is approved for use inside and outside of the HVHZ.

<u>Overall Limitations:</u>	Min. Slope:	1"/12"
	Max Panel Width:	20"
	Min Seam Height:	1 1/2"
	Min Fastener:	#10 x 1" Pancake Head Fastener, (2) per clip
	Panel Clip Options:	See Chart Below and Drawing ML15S20-HZ
	Panel Clip Spacing:	See Chart Below
	Max. Design Pressure:	See Chart Below

PANEL SEAM	CLIP CLIP TYPE	ANCHOR CLIP SPACING (ALONG PANEL)	MAX DESIGN PRESSURE (psf)
SINGLE (90°) SEAM	STANDARD CLIP	12" O.C.	-119.25
	EXPANSION CLIP	12" O.C.	-97.25
	XL CLIP	6" O.C.	-101
DOUBLE (180°) SEAM	STANDARD CLIP	12" O.C.	-119.25
		24" O.C.	-101
		12" O.C.	-168.5
	XL CLIP	6" O.C.	-198.5
		24" O.C.	-101
		12" O.C.	-168.5
		6" O.C.	-198.5

Underlayment: Minimum ASTM D 226 Type II, installed and anchored per FBC Section 1507.1.1.1 (2) or (3) (min).

(or)

Any underlayment with a valid FLPA or Miami-Dade NOA

Fire Barrier: Where required by code, install an approved fire barrier. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. (See note #2 below)

Minimum Substrate: 5/8" (19/32" min) 4-ply CDX Plywood, nailed to 2x rafters spaced 24" max. o.c, with 8d ring-shank nails spaced 6" o.c. (min).

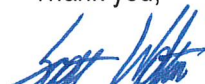
Other Limitations:

1. Roof slope must meet requirements of FBC Section 1515.2.
2. Fire classification is not a part of this evaluation. Refer to a current Approved Roofing Materials Directory for fire ratings of this product.
3. Design of substrate is by others and is not a part of this evaluation.
4. All panel system perimeters, penetrations, and transitions to be flashed and sealed per the manufacturer's installation instructions and RAS 133.

Re-Roofing: The Sentrigrad ML150 Series 24 Ga. Steel Standing Seam Roof Panel may be installed over a single layer of existing asphalt shingles, provided the existing roof meets the requirements of Section 1521 of the Florida Building Code.

If you have any questions or need more information concerning this approval, please contact me.

Thank you,

  
 Scott Wolters  
 FL PE# 62354  
 JUN 25 2024

