

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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PRODUCT EVALUATION

PRODUCT: ONYX METALS 1 1/2" STANDING SEAM ROOF PANEL,
24 Ga. STEEL, 16" WIDE, OVER 5/8" PLYWOOD

MANUFACTURER: ONYX METALS
2801 NW 55TH COURT, BUILDING 1
FORT LAUDERDALE, FL 33309

To all concerned,

The 1 1/2" Standing Seam Roof Panel, manufactured by Onyx Metals, is a non-structural 16" wide 24 Ga. steel roof panel (50 ksi min) that meets the requirements of Sections 1507.4 and 1518.9 of the 8th 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 N2126.01-450-18, N2126.03-450-18, and N2126.04-450-18.

Technical Documentation:

1. Drawing "OMS15SS-HZ" dated 8/18/23, signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Intertek B&C. signed and sealed by Tanya Dolby, PE.
3. Supplemental Calculations to support OMS15SS-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 8th Edition (2023) Florida Building Code generally, and chapter 15 specifically, including the HVHZ provisions.

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

<u>Overall Limitations:</u>	<u>Min. Slope:</u>	HVHZ:	1":12" (with sealant at seams) 2":12" (no sealant at seams)
		Non-HVHZ:	1/4":12"
	Maximum Panel Width:		16" (Nominal)
	Minimum Rib Height:		1 1/2"
	Clip Anchor:		3" x 1 1/2" 24 Ga. Galv. Steel
	Max. Clip Anchor Spacing:		See Chart Below
	Clip Anchor Fasteners:		#10 x 1" Pancake Head, (2) per Clip Anchor
	Max. Design Pressure:		See Chart Below

Fastener Type:	Clip Anchor Spacing	Panel Seam	Max. Design Pressure
#10x1" Pancake Head Screw (2) per Clip Anchor	4" From Ends, 16" Max. O.C.	90°	-86 psf
#10x1" Pancake Head Screw (2) per Clip Anchor	4" From Ends, 12" Max. O.C.	180°	-168.5 psf

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" on center (min).

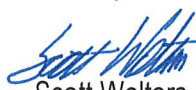
Other Limitations:

1. Roof slope must meet requirements of FBC Sections 1507.4.2 or 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 requirements of RAS 133.

Re-Roofing: The Onyx 1 1/2" Standing Seam 24 Ga. Steel 16" Wide Roof Panel may be installed over a single layer of existing asphalt shingles, provided the existing roof meets the requirements of Section 1521 (HVHZ) or Section 1511 (outside of HVHZ) 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
 AUG 18 2023

SPECIALIZING IN MIAMI-DADE AND FLORIDA PRODUCT APPROVALS FOR ROOFING & GLAZING PRODUCTS