

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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PRODUCT EVALUATION

(Florida Product Approval)

PRODUCT: **DM CLASS 2000 24 Ga. or 22 Ga. Galvalume 2" Mechanical Seam 18" Wide Roof (FLPA# 41725.5) Panel over Existing Metal Roofing with 26 Ga. Hat Channel Spacers (Option #1), or over Existing Metal Roofing with Fastened 16 Ga. Hat Channel Spacers (Option #2)**

MANUFACTURER:



Dynamic Metals, LLC
2951 SE Dominica Terrace
Stuart, FL 34997

or

Dynamic Metals, LLC.
2177 Andrea Lane
Ft. Myers, FL 33912

To all concerned,

The DM Class 2000 2" Mechanical Seam Roof Panel, manufactured by Dynamic Metals LLC, is a non-structural 24 ga. (min) galvalume coated 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 panels have been tested per TAS 100, TAS 110, TAS 125, ASTM E1592 and FM 4471 Section 4.4 by Intertek B&C, with results shown in test reports P2196.11-450-34 thru P2196.15-450-34, and J7258.02-450-18.

Technical Documentation:

1. Drawing "2SMSHC-HZ" dated 2/29/24 (Rev. 1), signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Intertek B&C. signed and sealed by Vinu Abraham, PE.
3. Supplemental Calculations to support 2SMSHC-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 of 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.** The panels may be installed EITHER using OPTION #1 over existing roofing that is supported by 16 Ga. (min) Steel Purlins, using 26 Ga. hat channel spacers at each Purlin (NOTE: The combined height of hat channel, spacers, and existing roofing may not exceed 3"), OR OPTION #2 over existing roofing supported by 16 Ga min Purlins, with 6" x 3" tall 16 Ga. hat channel spacers, anchored to the purlins..

Overall Limitations:

Min. Slope:

HVHZ: 1"/12"

Non-HVHZ: 1/4"/12"

Note:

Slopes less than 3"/12" require lap sealant per FBC 1507.4

Maximum Panel Width:

18"

Minimum Rib Height:

2"

	Option #1 Installation OVER EXISTING ROOFING with 26 GA. Hat Channel Spacers FASTENED TO 16 Ga PURLINS	Option #3 Installation FASTENED TO 16 Ga. HAT CHANNELS (Over Existing Roofing)
Anchor Clip Type	2 pc. Galv. Steel Clip, Spaced 60" O.C. (16 ga Base - 22 ga. Tab, 4 5/16" Long)	26 Ga. Galv. Steel Continuous Clip
Fastener Type:	#14 Pancake Head Screws	#10 Pancake Head Screws
Fastener Spacing:	(See Below)	6" From ends, 12" Max. O.C.
Maximum Design Pressure:	-98 psf (2 Screws per Clip) -122.5 psf (3 Screws per Clip)	-157.5 psf
Panel Seams	Panels are Seamed to 180°. Seams are Caulked with Bostik 915 Sealant or 1/8" Butyl Tape.	Panels are Seamed to 180°. Seams are Caulked with Bostik 915 Sealant or 1/8" Butyl Tape.

- Notes:
- Existing roofing must meet the requirements of FBC Section 1511 or 1521.
 - Clip fasteners must fully penetrate Purlins (option #1) or 16 Ga. Hat Channels (option #2), with 3 additional threads (min) beyond.
 - 16 Ga. Hat Channels at existing roofing (Option #2) are fastened to purlins with (2) #10 Fasteners per flange. ((3) per flange required for Option #2 Installation with Design Pressures > 125 psf)

Other Limitations:

- Roof slope must meet requirements of FBC Sections 1507.4.2 or 1515.2.
- Fire classification is not a part of this evaluation. Refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- Design of substrate is by others and is not a part of this evaluation.
- All panel system perimeters, penetrations, and transitions to be flashed and sealed per the requirements of RAS 133.
- Rational analysis, provided by a Florida licensed Architect/Engineer per FAS 61G20.3.005(e), may be used for project specific approval by the local authorities having jurisdiction.
- Where required by the Florida Building Code, panels shall be labeled with the manufacturer's name and/or logo, and the following statement, "Dynamic Metals FLPA# 41725.5, DM Class 2000".

Panel Forming:

These panels may be jobsite roll formed with the following Dynamic Metals machines, per approval of 3rd party QA provider, to the dimensions shown on Drawing 2SMSHC-HZ:

SSQ-6800617
SSQ-6690517
SSQ-6810617
5VC-0490718

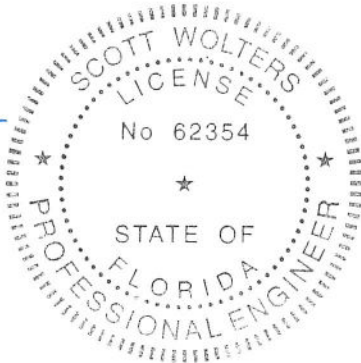
SSQ-5150216
SSQ-4560615
SSP-10751007
5VC-0360516
5VC-0700123

SSQ2U-4031121
SSQ2U-4041121
SSQ2U-6470323
SSQ2U-6480323
SSQ2U-4051121

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

Thank you,


Scott Wolters
FL PE# 62354
FEB 29 2024



MAX DESIGN PRESSURE: -157.5 psf

