

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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

PRODUCT EVALUATION

PRODUCT: **DM CLASS 2000 METAL ROOF SYSTEM INSTALLED OVER 22 Ga STEEL B-DECK**
(FLPA# 32041.2)

MANUFACTURER: DYNAMIC METALS, LLC
3201 SE DOMINICA TERRACE
STUART, FL 34997

To all concerned,

The DM Class 2000 Series Roof Panels are 24 Ga. galvalume or Fluoropon coated steel panels (50 ksi min), manufactured by Dynamic Metals LLC in 18" widths with 2" high mechanically seamed joints. The panels meet the requirements of Section 1507.4 and 1518.9 of the 7th Edition (2020) Florida Building Code. The panels have been tested per TAS 100, TAS 110, TAS 125, TAS 201, ASTM E2140 and FM 4471 Section 4.4 by Intertek B&C, with results shown in test reports M1607.03-450-44 R0, M1960.01-450-18 R0, M1960.04-450-18 R0, K9508.01-450-18 R0, and K9508.04-450-18 R0.

Technical Documentation:

1. Drawing "2MSOBD" dated 6/15/21 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 2MSOBD, 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 7th Edition (2020) Florida Building Code generally, and chapter 15 specifically, including the HVHZ provisions.

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

Overall Dimensions:

Max. Panel Width:	18"
Min. Rib Height:	2"
Min. Roof Slope:	1" / 12" (HVHZ)
	¼" / 12" (non-HVHZ)

	Option #1 Installation	Option #2 Installation
Max. Design Pressure:	-112.25 psf	-176 psf
Panel Fasteners:	#14 Dia. Panclip SD-L Screws	#14 Dia. Panclip SD-L Screws
Anchor Clip Spacing:	18" Max. O.C.	Continuous Clip
Fastener Spacing:	2 per Clip	6" Max. O.C.
	Panels are Seamed to 180°	Panels are Seamed to 180°

Notes: 1. Fasteners must fully penetrate B-Deck, with 3 threads beyond.
2. #14 Fasteners equal to Panclip SD-L may be used provided their allowable pullout in 22 Ga Steel is 150 lb, min.

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)

Note: Outside of the HVHZ, in areas with windspeeds < 170 mph, 1" round plastic caps meeting the requirements of FBC Section 1507.1.1.1, may be used to prevent galvanic reactions.

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

Any underlayment with a valid FLPA or Miami-Dade NOA, installed per FBC Section 1507.1.1.1.

Deck: ¼" Dens-Deck (min)

Insulation: ¾" to 4" ISO Board Insulation (Optional)

Min. Substrate: 22 Ga. Steel B-Deck

Other Limitations:

1. Fire classification is not a part of this evaluation. Refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Design of substrate is by others and is not a part of this evaluation.
3. 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.
4. Where required by FBC, panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement, "Dynamic Metals FL# 32041.2, 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 2MSOBD:

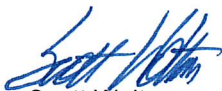
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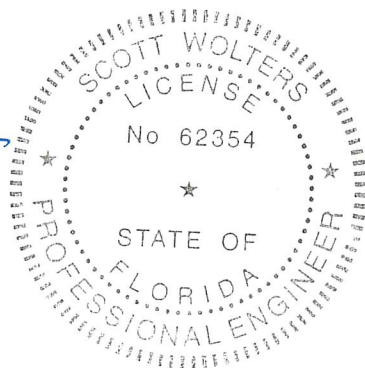
SSQ-5150216
SSQ-4560615
5VC-0360516

SSQ-6810617
SSQ2-U4031121
SSQ2-U4041121
SSQ2-U4051121

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

Thank you,

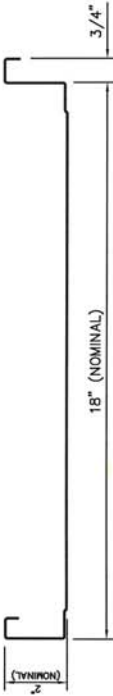
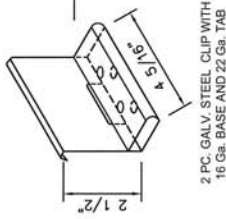
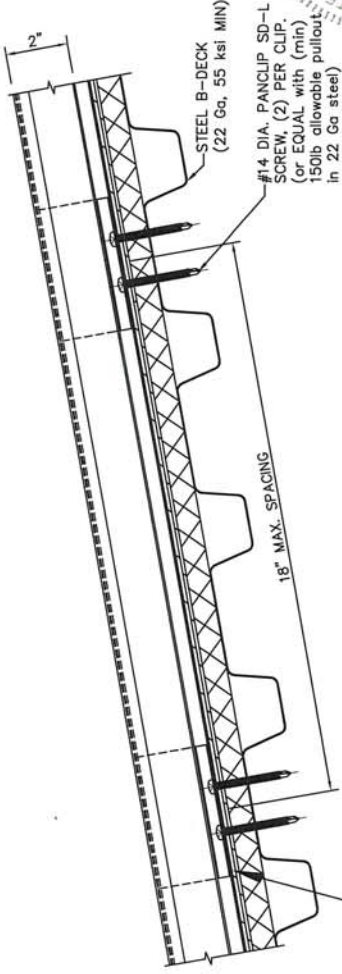

Scott Wolters
FL PE# 62354
OCT 18 2021



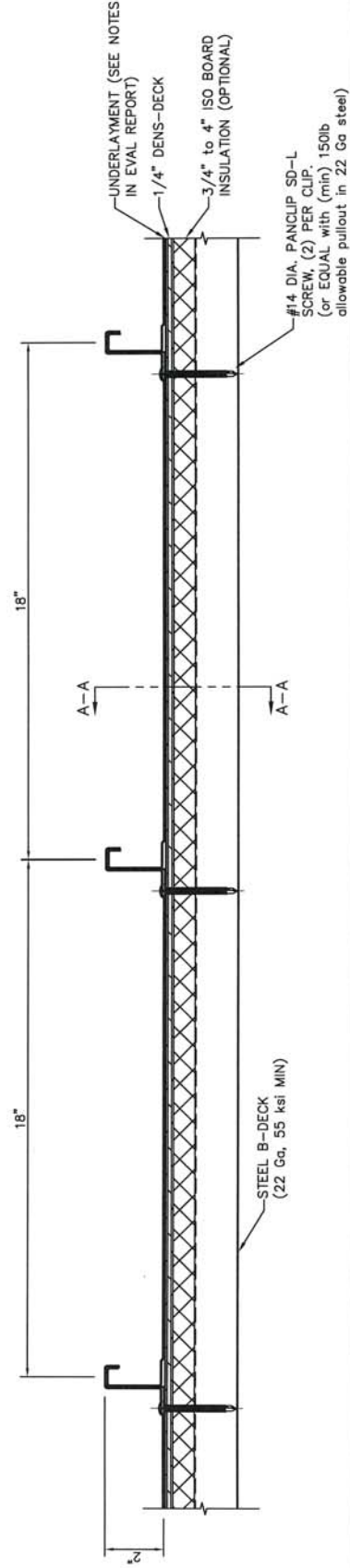
**DM CLASS 2000 2" MECHANICAL SEAM
24 Ga. STEEL ROOF PANEL, 18" WIDE.
INSTALLED OVER 22 Ga. STEEL B-DECK
(OPTION #1 INSTALLATION)**

MAX DESIGN PRESSURE
-112.25 Psf

SECTION A-A



PANEL PROFILE



DYNAMIC METALS

340 PIKE ROAD
WEST PALM BEACH, FL 33782
PH: (561) 629-7288
FAX: (561) 629-7291
www.dynamictmetals.net
EMAIL: info@dynamictmetals.net



DWG: 2MSWPLN
SHEET: 1/2

PRINTS ISSUED FOR	REV.#	DATE
1ST SUBMITTAL	-	6/15/21
2ND SUBMITTAL	-	10/26/20
3RD SUBMITTAL	-	-
4TH SUBMITTAL	-	-
5TH SUBMITTAL	-	-
6TH SUBMITTAL	-	-
7TH SUBMITTAL	-	-
8TH SUBMITTAL	-	-
9TH SUBMITTAL	-	-
10TH SUBMITTAL	-	-



SCOTT WOLTERS
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WOLTERS ENGINEERING
(COA# 27194)
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MAX DESIGN PRESSURE
-176 Psf

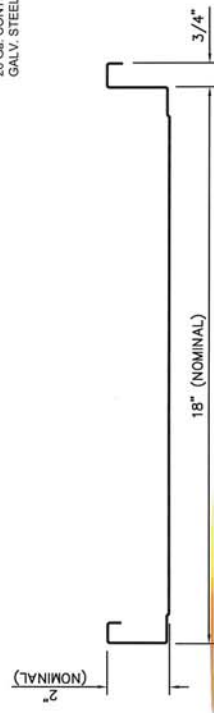
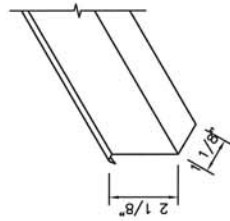


Figure 1: Typical Deck Detail

Labels and Dimensions:

- UNDERLAYMENT (SEE NOTES IN EVAL REPORT)
- 1/4" DENS-DECK
- 3/4" to 4" ISO BOARD INSULATION (OPTIONAL)
- #14 D.I.A. PANCLIP SD-L SCREW, 6" MAX O.C. (or EQUAL with (min) 150lb allowable pullout in 22 Ga steel)
- STEEL B-DECK (22 Ga, 55 ksi MIN)
- 18"
- A-A
- 2"

DWG: 2MS0BD
SHEET: 2/2

DATE	REV.#	PRINTS ISSUED FOR
6/15/21	—	1ST SUBMITTAL
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