

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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

PRODUCT EVALUATION

(Florida Product Approval)

PRODUCT: **DM CLASS 2000 24 Ga. or 22 Ga. Galvalume 2" Mechanical Seam, 12", 14", 16", (FLPA# 41725.6) or 18" Wide Roof Panel over Steel B-Deck (22 Ga. min)**

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 E2140, and FM 4471 Section 4.4 by Intertek B&C, with results shown in test reports P2196.11-450-34, P2196.14-420-34, and P2196.16-450-34 thru P2196.18-450-34.

Technical Documentation:

1. Drawing "2SMSBD-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 2SMSBD-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.**

Overall Limitations:

Min. Slope:

HVHZ: 1"/12"

Non-HVHZ: ¼"/12"

Note:

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

Maximum Panel Width:

18"

Minimum Rib Height:

2"

Min. Deck Requirement:

22 Ga. Steel B-Deck

	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 Type:	2 pc Galv. Steel Clip, 18" Max. O.C. (16 ga. Base, 22 ga. Tab, 4 5/16" Long)	Continuous Clip (26 ga. Galv. Steel)
Fastener Spacing:	2 per Clip	6" Max. O.C.
Panel Seams:	Panels are Seamed to 180°	Panels are Seamed to 180°

- Notes:
1. In the HVHZ with roof slopes less than 2"/12", panel seams must be sealed with Bostik 915 at the top corner of male/female seam.
 2. Fasteners must fully penetrate B-Deck, with 3/4" of threads (min) beyond.
 3. #14 Fasteners equal to Panclip SD-L may be used provided their allowable pullout in 22 Ga. Steel is 150 lb, min.

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

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)

Coverboard: 1/4" Dens-Deck (min). (Optional)

Insulation: 3/4" to 4" ISO Board Insulation (Optional)

Min. Substrate: 22 Ga. Steel B-Deck

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.
5. 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.
6. 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# 41725.6, 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 2SMSBD-HZ:

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

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

SSQ2U-4031121
SSQ2U-4041121
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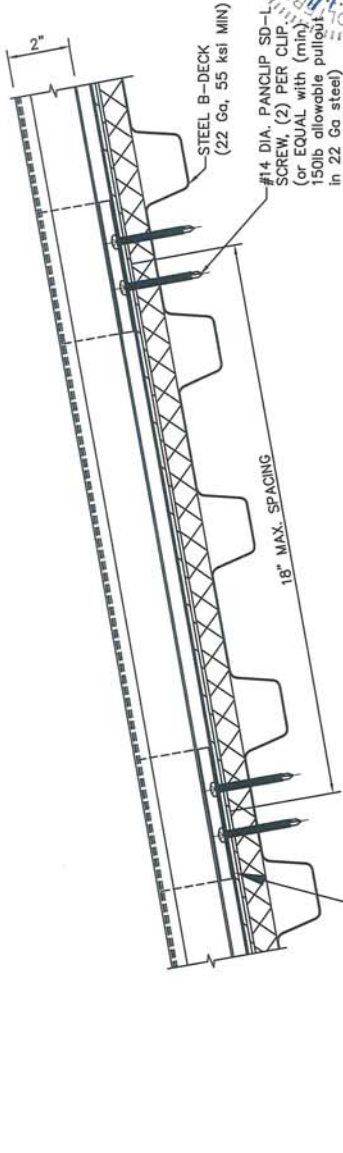
If you have any questions or need more information concerning this approval, please contact me.

Thank you,



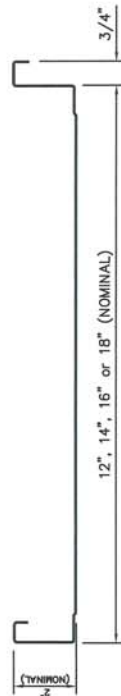
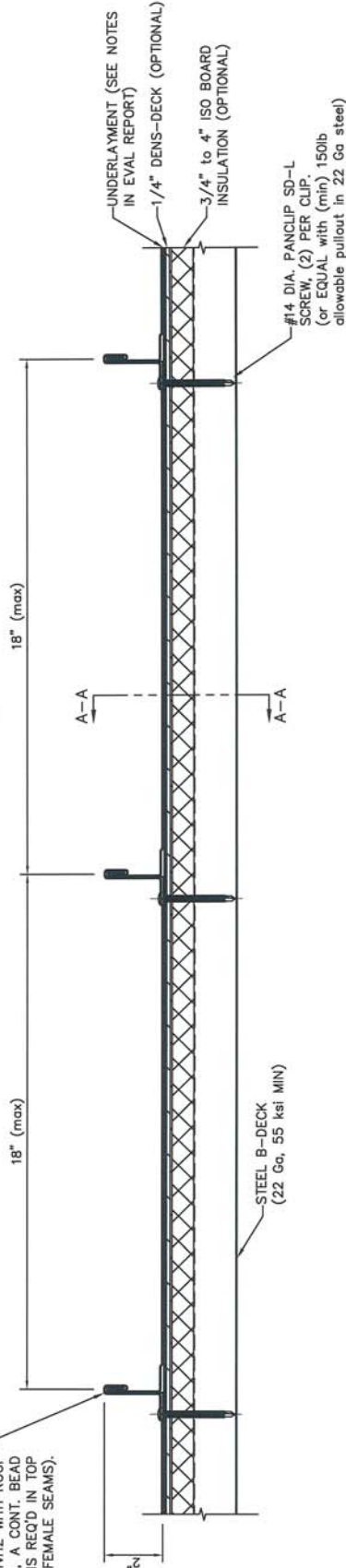
DYNAMIC CLASS 2000 24 Ga. or 22 Ga. GALVALUME 2" METAL SEAM x 12", 14", 16", or 18" WIDE ROOF PANEL OVER 22 Ga. STEEL B-DECK (OPTION #1 INSTALLATION)

MAX DESIGN PRESSURE
-112.25 Psf



SECTION A-A

PANELS ARE SEALED TO 180°
(IN THE HVHZ WITH ROOF
SLOPES < 2°/12"; A CONT. BEAD
OF BUSTIK 915 IS REQ'D IN TOP
CORNER OF MALE/FEMALE SEAMS).



PANEL PROFILE

GENERAL NOTES:

1. ROOF SLOPE IS LIMITED PER THE REQUIREMENTS OF FBC SECTION 1507.4.2 OR 1515.2.
2. DESIGN OF SUBSTRATE IS BY OTHERS AND NOT A PART OF THIS APPROVAL.
3. ALL PANEL SYSTEM PERIMETERS, PENETRATIONS, AND TRANSITIONS TO BE FLASHED AND SEALED PER THE REQUIREMENTS OF RAS 133.



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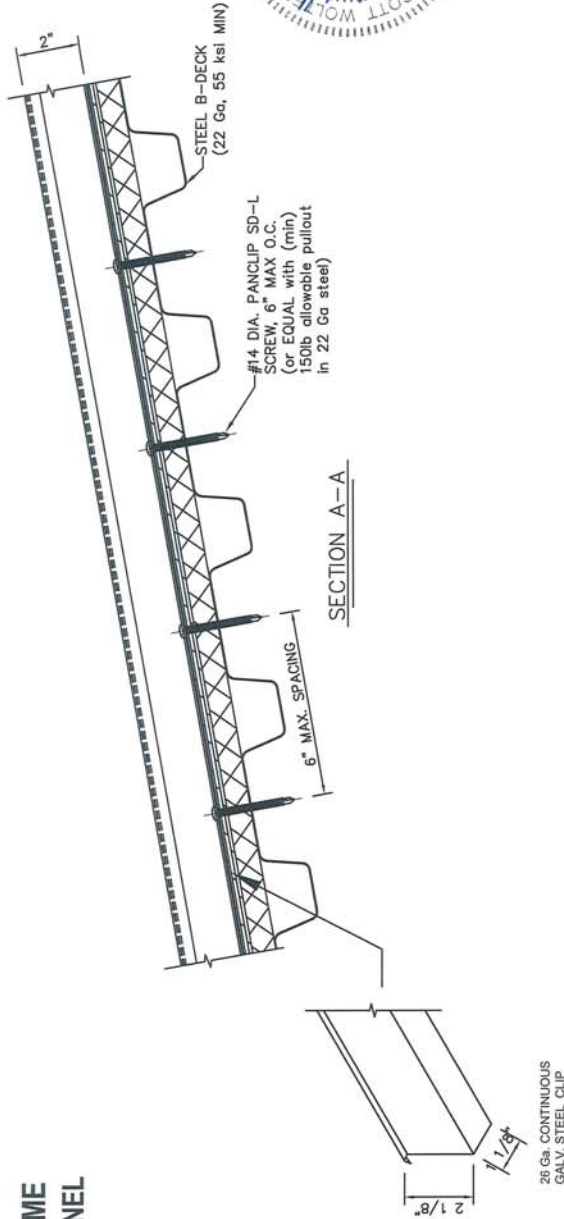


PRINTS ISSUED FOR	REV.#	DATE
1ST SUBMITTAL	1	10/17/22
2023 CODE UPDATE	1	2/29/24

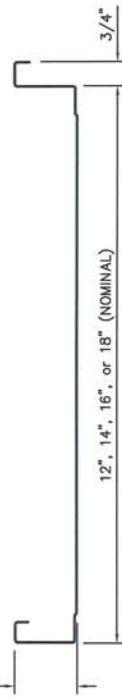
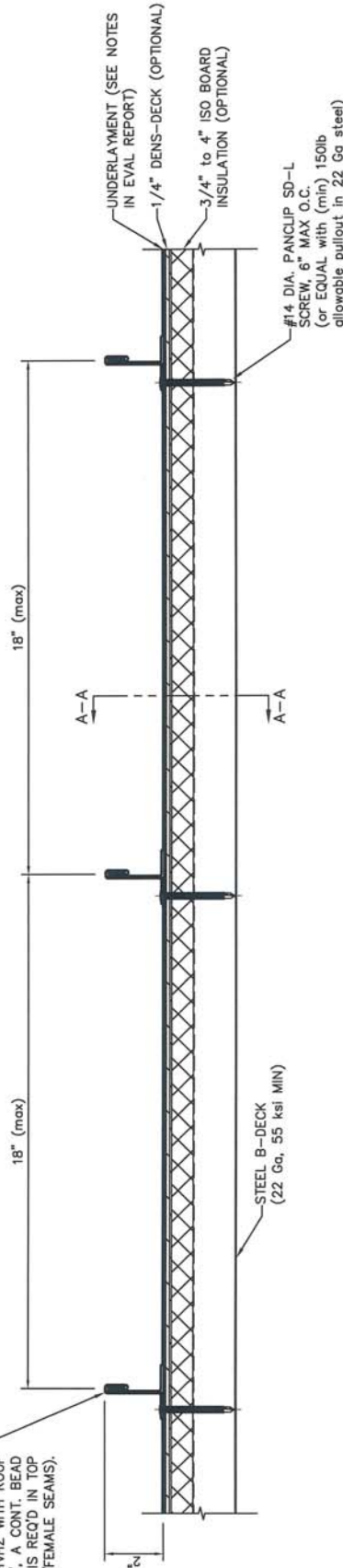
DWG: 2SMSBD-HZ
SHEET: 1/2

DYNAMIC CLASS 2000 24 Ga. or 22 Ga. GALVALUME 2" METAL SEAM x 12", 14", 16" or 18" WIDE ROOF PANEL OVER 22 Ga. STEEL B-DECK (OPTION #2 INSTALLATION)

MAX DESIGN PRESSURE
-176 Psf



PANELS ARE SEAMED TO 180°
(IN THE HVHZ WITH ROOF
SLOPES < 2°/12", A CONT. BEAD
OF BOSTIK 915 IS REQ'D IN TOP
CORNER OF MALE/FEMALE SEAMS).



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DYNAMIC METALS

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