

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 EXISTING METAL ROOFING ON 16 Ga STRUCTURAL STEEL PURLINS (WITH OR WITHOUT 26 Ga HAT CHANNEL SPACERS) OR TO 16 Ga. STEEL HAT CHANNELS OVER EXISTING ROOFING. (FLPA# 32041.1)**

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 Sections 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, ASTM E1592 and FM 4471 Section 4.4 by Intertek B&C, with results shown in test reports K9508.01-450-18, K9508.02-450-18, K9508.03-450-18, K9508.04-450-18, and L5423.02-450-44.

Technical Documentation:

1. Drawing "2MSWPLN" dated 4/17/21 signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Architectural Testing, Inc. signed and sealed by Vinu Abraham, PE.
3. Supplemental Calculations to support 2MSWPLN, 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.** The panels may be installed EITHER using OPTION #1 over existing roofing that is supported by 16 Ga. (min) Steel Purlins (with or without 6"x3" tall 26 Ga. hat channel spacers), OR using OPTION #2 over existing roofing supported by 16 Ga min Purlins, with 6" x 3" tall 16 Ga. hat channel spacers. NOTE: The combined height of hat channel, spacers, and existing roofing may not exceed 3".

<u>Overall Dimensions:</u>	Max. Panel Width:	18"
	Min. Rib Height:	2"
	Min. Roof Slope:	1/4" / 12"

	OPTION #1 INSTALLATION	OPTION #2 INSTALLATION
	OVER EXISTING ROOFING (with or without 26 GA. Hat Channels) TO 16 Ga. PURLINS	TO 16 Ga. HAT CHANNELS (OVER EXISTING ROOFING)
CLIP TYPE:	2 pc. CLIP - 60" O.C.	CONTINUOUS CLIP
FASTENER TYPE:	#14 PANCAKE HEAD SCREWS	#10 PANCAKE HEAD SCREWS
FASTENER SPACING:	(SEE BELOW)	12" MAX. O.C.
MAX DESIGN PRESSURE	-98 psf (2 SCREWS/CLIP) -122.5 psf (3 SCREWS/CLIP)	-157.5 psf
PANEL SEAMS	PANELS ARE SEAMED TO 180°	PANELS ARE SEAMED TO 180° SEAM IS 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 beyond.
 - Hat Channels at existing roofing are fastened to purlins with (2) #10 Fasteners per flange. ((3) per flange required for Option #2 Installation with Design Pressures > 125 psf)
 - When installing over existing roofing without hat channel spacers, the full base of the installation clips must sit flat on the rib of the existing panels.
 - When installing over existing roofing without hat channel spacers, the existing panels must be fastened to the purlins with a minimum of (2) #10 Dia. Tek-Style screws on each side of the rib supporting the installation clips, at each purlin.

Other Limitations:

- 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.
- 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 FBC, panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement, "Dynamic Metals FL# 32041.1, 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 2MSWPLN:

SSQ-6800617
SSQ-6690517
5VC-0490718

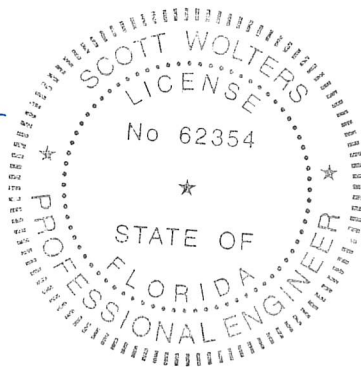
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5VC-0360516

SSQ-6810617
SSQ2-U4031121
SSQ2-U4041121
SSQ2-4051121

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

Thank you,

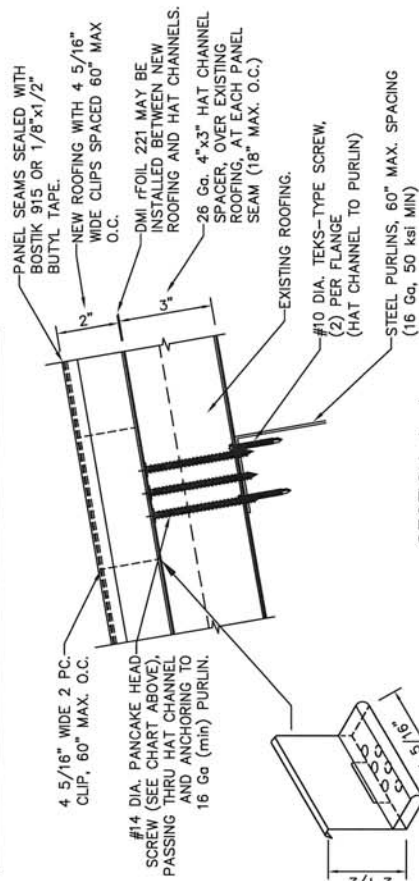

Scott Wolters
FL PE# 62354
OCT 18 2021



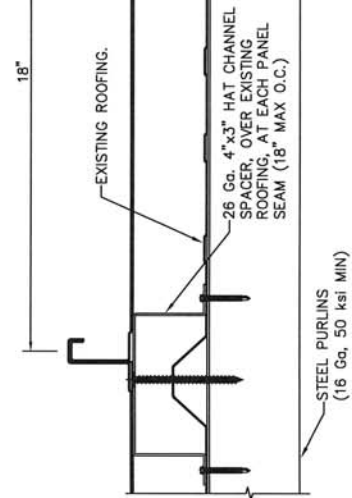
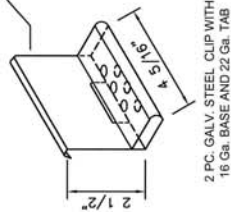
DM CLASS 2000 2" MECHANICAL SEAM 24 Ga. STEEL ROOF PANEL, 18" WIDE, OVER EXISTING ROOF WITH 16 Ga. PURLINS, WITH OR WITHOUT 26 Ga. HAT CHANNELS (OPTION #1 INSTALLATION)

MAX. DESIGN PRESSURES:

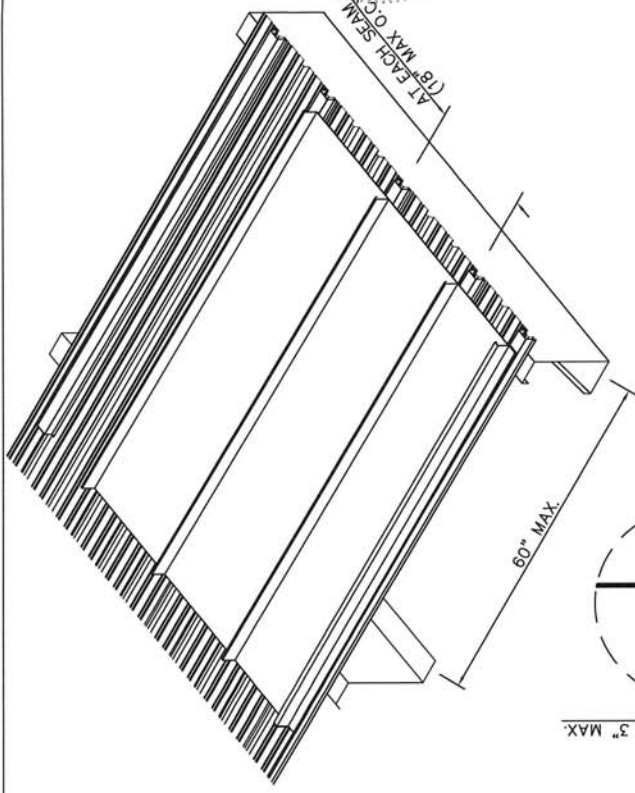
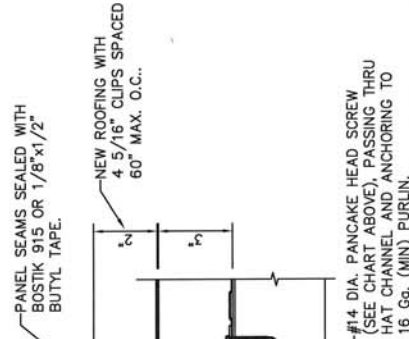
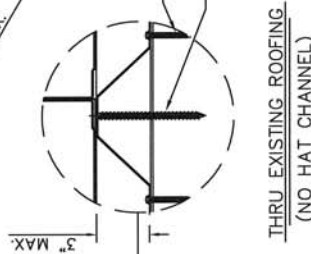
18" PANELS WITH 4 5/16" 2-PC. CLIPS SPACED 60" MAX O.C.	(2) FASTENERS PER CLIP: -98 PSF (3) FASTENERS PER CLIP: -122.5 PSF
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SECTION A-A (WITH EXISTING ROOFING)



SECTION A-A (NO HAT CHANNEL)



DYNAMIC METALS

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DWG: 2MSWPLN
SHEET: 1/2

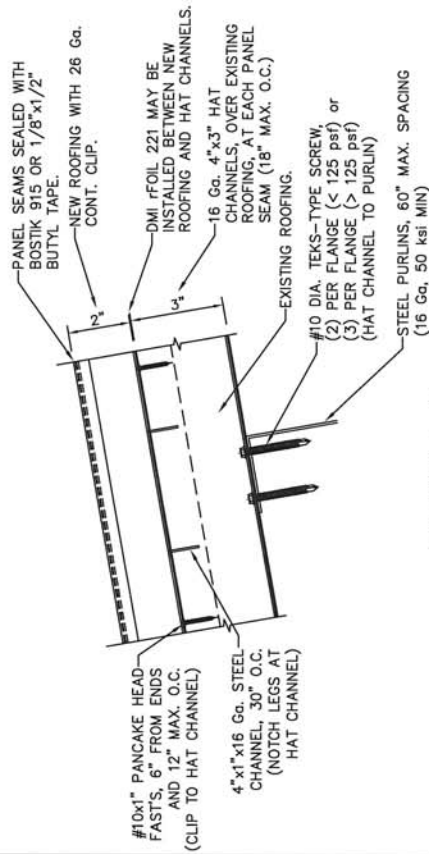
PRINTS ISSUED FOR	REV.#	DATE
3RD SUBMITTAL	1	4/17/21
2ND SUBMITTAL	2	10/26/20
1ST SUBMITTAL	3	8/10/20



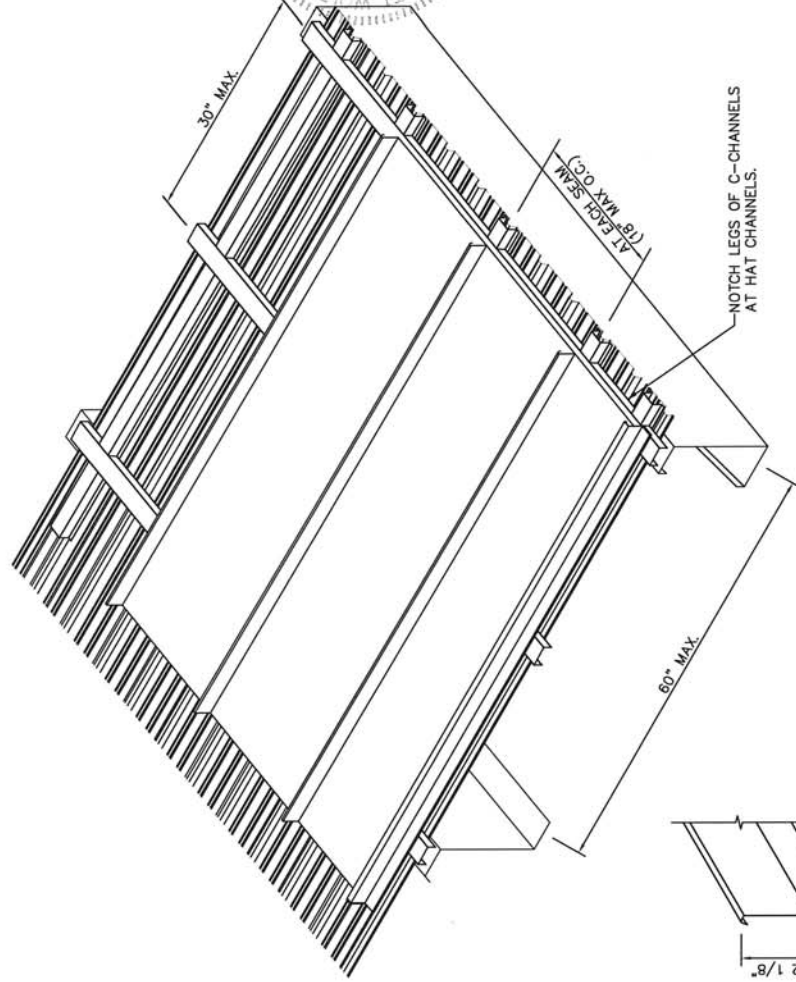
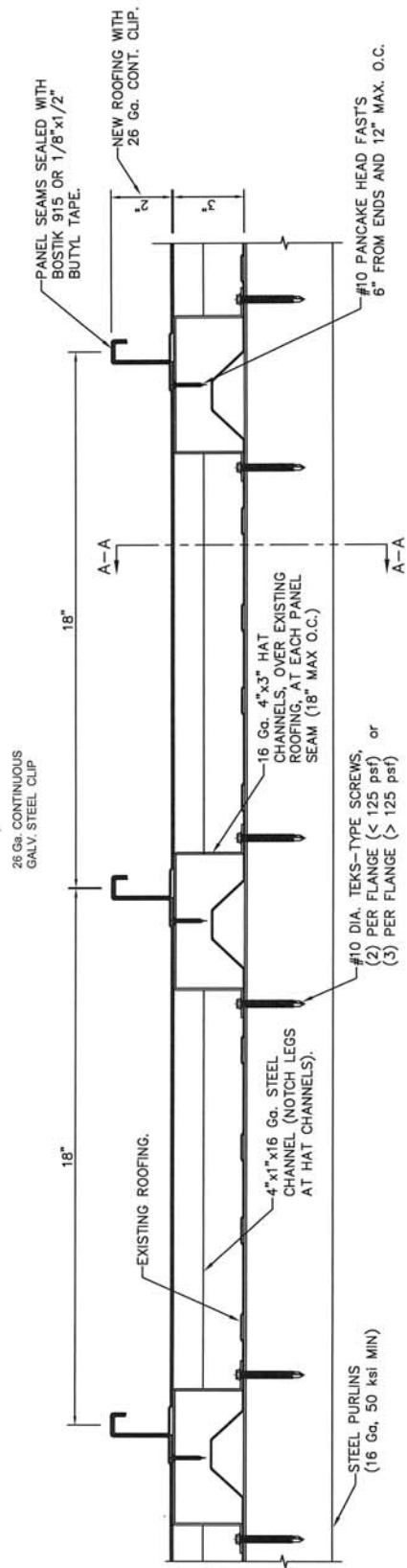
SCOTT WOLTERS
FL REG 62354
WOLTERS ENGINEERING
(CO# 27194)
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WEST PALM BEACH, FL 33412
(561) 225-1982

DM CLASS 2000 2" MECHANICAL SEAM 24 Ga. STEEL ROOF PANEL, 18" WIDE, OVER EXISTING ROOF WITH 16 Ga. PURLINS, USING 16 Ga. HAT CHANNELS (OPTION #2 INSTALLATION)

MAX DESIGN PRESSURE: -157.5 psf



SECTION A-A
(WITH EXISTING ROOFING)



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DWG: 2MSWPLN
SHEET: 2/2

SCOTT WOLTERS FL P.E.# 62354	WOLTERS ENGINEERING (CO# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982	STATE OF FLORIDA PROFESSIONAL ENGINEER OCT 18 2021 SEALS No 62354	PRINTS ISSUED FOR 1ST SUBMITTAL 2ND SUBMITTAL 3RD SUBMITTAL REV# DATE 8/10/20 10/26/20 4/17/21
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