

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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

PRODUCT EVALUATION

PRODUCT: **DYNAMIC PBR SERIES 26 GA. GALVALUME ROOF PANEL, 36" WIDE**
(FLPA# 32041.4)

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

To all concerned,

The Dynamic PBR Series 26 Ga. 36" Wide Galvalume Roof Panel, manufactured by Dynamic Metals LLC, is a non-structural galvalume coated Fluoropon painted steel roof panel (50 ksi min) that meets the requirements of Section 1507.4 of the 7th Edition (2020) Florida Building Code. The panel has been tested per TAS 100, TAS 125, TAS 201, and FM 4471 Section 4.4 by Intertek B&C, with results shown in test reports L4914.01-450-18, L4914.02-450-18, L4614.03-450-18, and J3465.03-109-44. It has also been tested per TAS 110 by PRI Construction Materials Technologies, with results shown in test reports VLS-004-02-01 and VLS-005-02-01.

Technical Documentation:

1. Drawing "DPBRPNL" dated 12/21/20, signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Intertek, signed and sealed by Vinu Abraham, PE.
3. Test Reports listed above by PRI Construction Materials Technologies, signed and sealed by Zachary R Priest, PE.
4. Supplemental Calculations to support DPBRPNL, 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, for use outside of the HVHZ.

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

<u>Overall Limitations:</u>	Maximum Panel Width:	36"
	Minimum Rib Height:	1 1/8"
	Min. Slope:	1/2"/12"
	Max. Purlin Spacing:	60" O.C.
	Min. Purlin Thickness:	16 Ga.

	Option #1 Installation	Option #2 Installation
Max. Design Pressure:	-60 psf	-100 psf
Panel Fasteners:	#10x1 1/2" HiLo HWH Screws (#12 Dia. for windloads > 50 psf)	#10x1 1/2" HiLo HWH Screws
Fastener Spacing (Across Panel)	12" Max. O.C. Beside Each Rib	5"-7"-5" Pattern Each Side of Ribs
Seam Fasteners and Sealant:	#10x3/4" HiLo HWH Screws 12" Max. O.C, with Butyl Tape	#10x3/4" HiLo HWH Screws 12" Max. O.C, with Butyl Tape.
Fasteners at Panel Butt-Joints	#10x1 1/2" HiLo HWH Screws 3" Max. O.C, with Butyl Tape	#10x1 1/2" HiLo HWH Screws 3" Max. O.C, with Butyl Tape
	(Panels are lapped 2")	(Panels are lapped 2")

Minimum Substrate: 16 Ga. Steel Purlins, spaced 60" max. O.C.

Other Limitations:

1. Roof slope must meet requirements of FBC Sections 1507.4.2.
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. 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.
5. Where required by the Florida Building Code, panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement, "Dynamic Metals FL #32041.4, DM PBR Series".

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 DPBRPNL:

SSQ-6800617
SSQ-6690517
5VC-0490718

SSQ-5150216
SSQ-4560615
5VC-0360516

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

Re-Roofing:

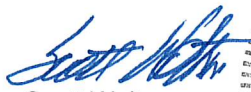
The 36" Wide Dynamic PBR Series 26 Ga. Galvalume Roof Panel may be installed over existing PBR Panels, provided the existing roof meets the requirements of Section 1511 of the Florida Building Code.

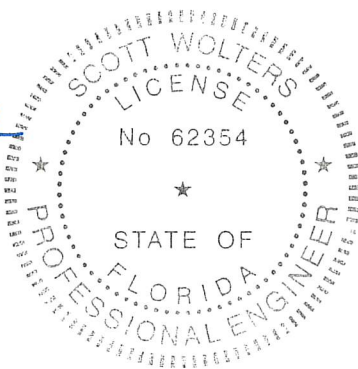
Note:

If installed over existing panels, the existing screws and any debris must be removed from The existing roof. Any corrosion in the existing roof must be treated per FBC 1521.8.

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

Thank you,

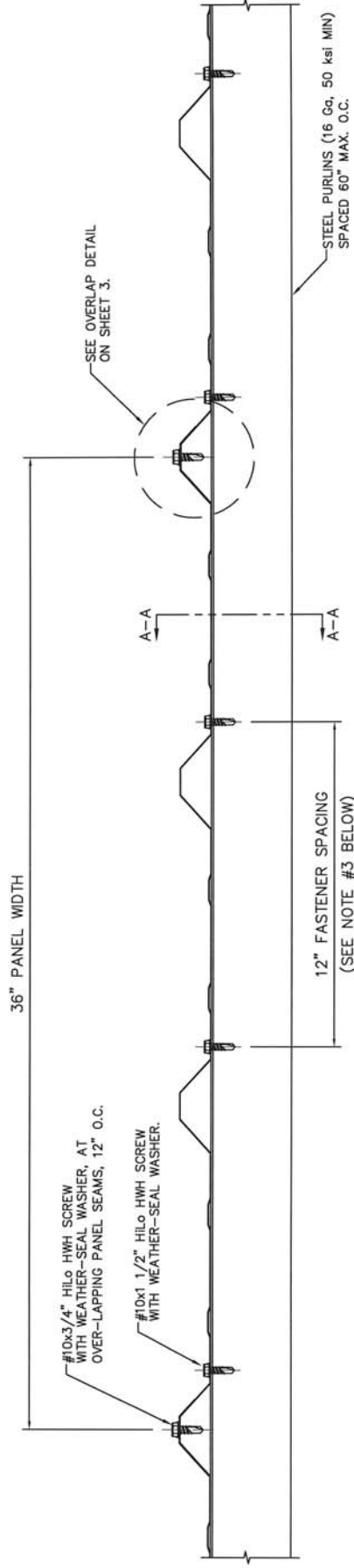

Scott Wolters
FL PE# 62354
OCT 18 2021



DYNAMIC PBR SERIES 26 Ga. STEEL ROOF PANEL

36" RIBBED ROOF PANEL INSTALLED DIRECTLY OVER STEEL PURLINS
OR INSTALLED OVER EXISTING PBR PANEL OVER STEEL PURLINS

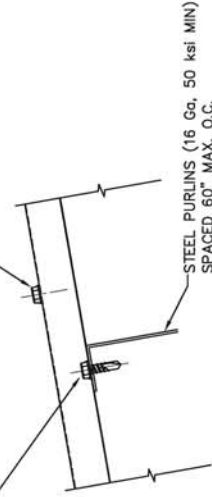
OPTION #1 INSTALLATION



MAX DESIGN PRESSURE
-60 Psf

#10x3/4" HILO HWH SCREW
WITH WEATHER-SEAL WASHER AT
OVER-LAPPING PANEL SEAMS, 12" O.C.

#10x1 1/2" HILO HWH SCREW
WITH WEATHER-SEAL WASHER, 12" O.C.
(#12 DIA. FOR WINDLOADS > 50 PSF)



SECTION A-A

GENERAL NOTES:

1. PBR PANEL MAY BE INSTALLED DIRECTLY TO STEEL PURLINS, OR INSTALLED OVER EXISTING PBR PANELS.
2. IF INSTALLED OVER EXISTING PANELS, THE EXISTING SCREWS AND ANY DEBRIS MUST BE REMOVED FROM THE EXISTING ROOF. ANY CORROSION IN THE EXISTING ROOF MUST BE TREATED WITH A RUST INHIBITOR PER FBC 1521.8.
3. AT PANEL BUTT JOINTS, PANELS ARE OVERLAPPED 2", SEALED WITH BUTYL TAPE, AND FASTENED WITH #10x1 1/2" HILO HWH SCREWS 3" O.C.
4. ROOF SLOPE IS LIMITED PER THE REQUIREMENTS OF FBC SECTION 1507.4.2.
5. FLASHING AND TRIM TO BE INSTALLED PER THE MANUFACTURER'S STANDARD INSTALLATION DETAILS, TO MEET THE REQUIREMENTS OF FBC SECTION 1503.

PRINTS ISSUED FOR	REV.#	DATE
1ST SUBMITTAL	-	12/21/20
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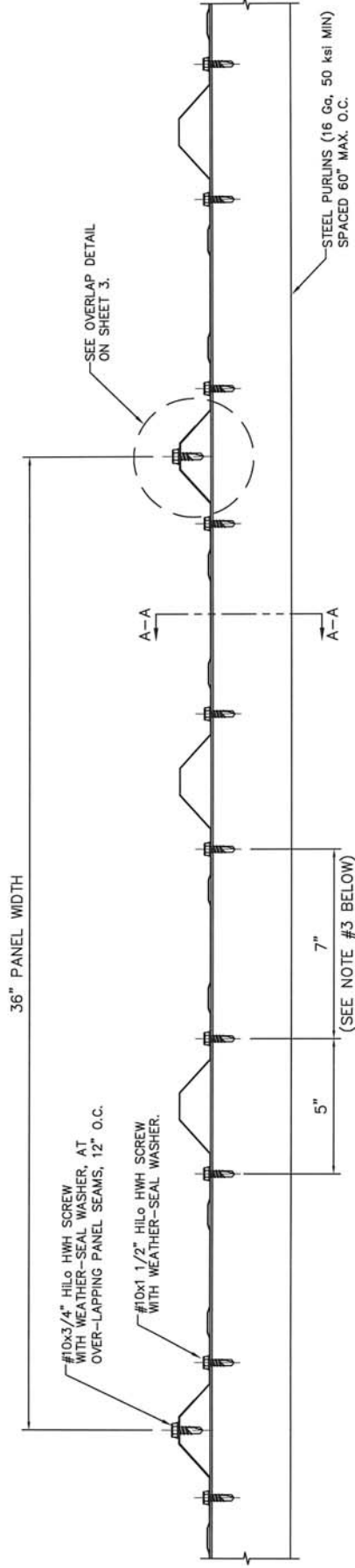


DWG: DPBRPNL
SHEET: 1/3

DYNAMIC PBR SERIES 26 Ga. STEEL ROOF PANEL

36" RIBBED ROOF PANEL INSTALLED DIRECTLY OVER STEEL PURLINS
OR INSTALLED OVER EXISTING PBR PANEL OVER STEEL PURLINS

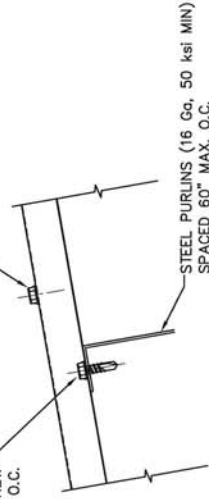
OPTION #2 INSTALLATION



MAX DESIGN PRESSURE
-100 Psf

#10x3/4" HILO HWH SCREW
WITH WEATHER-SEAL WASHER AT
OVER-LAPPING PANEL SEAMS, 12" O.C.

#10x1 1/2" HILO HWH SCREW
WITH WEATHER-SEAL WASHER, 12" O.C.



SECTION A-A

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3. AT PANEL BUTT JOINTS, PANELS ARE OVERLAPPED 2", SEALED WITH BUTYL TAPE, AND FASTENED WITH #10x1 1/2" HILO HWH SCREWS 3" O.C.
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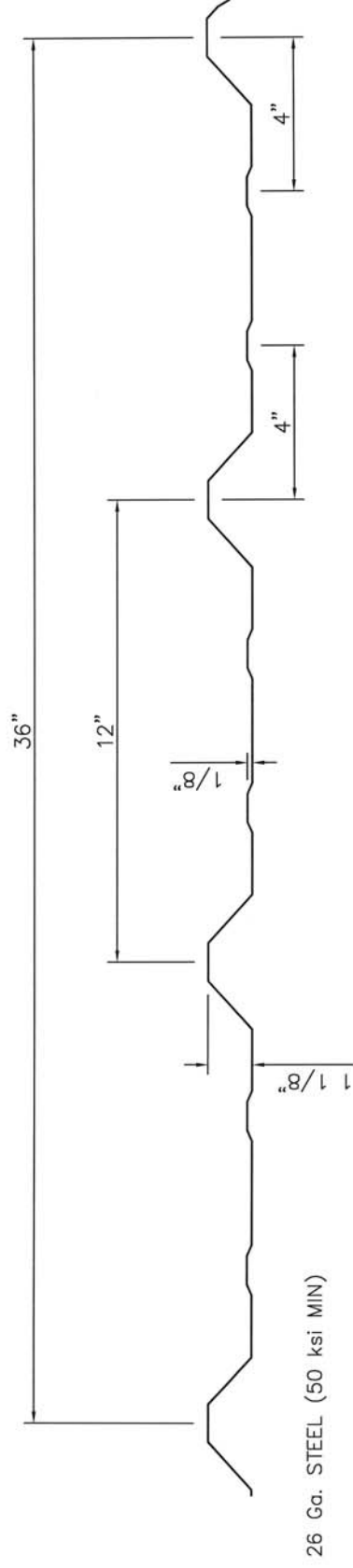
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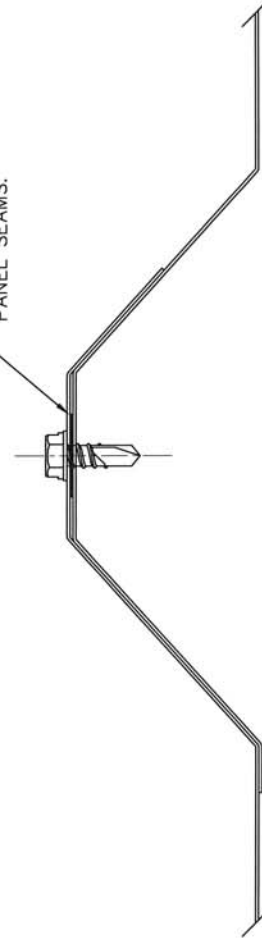
DWG: DPBRPNI
SHEET: 2/3

DYNAMIC PBR SERIES 26 Ga. STEEL ROOF PANEL

36" RIBBED ROOF PANEL INSTALLED DIRECTLY OVER STEEL PURLINS
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BUTYL TAPE AT
PANEL SEAMS.



OVERLAP DETAIL
(1 RIB)



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DWG: DPBRPNL
SHEET: 3/3