

# WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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## **PRODUCT EVALUATION** **(FOR HVHZ APPROVED PRODUCT)**

PRODUCT: **DM CLASS 1750 .032" ALUMINUM 1 3/4" SNAPLOCK 18" WIDE  
ROOF PANEL OVER B-DECK (FLPA# 27499.15)**

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

To all concerned,

The DM Class 1750 Series .032" Aluminum 1 3/4" Snaplock 18" Wide Roof Panel Over B-Deck, manufactured by Dynamic Metals LLC, is a non-structural Fluoropolymer coated aluminum roof panel (25 ksi min) that meets the requirements of Sections 1507.4 and 1518.9 of the 7<sup>th</sup> Edition (2020) Florida Building Code. The panel has been tested per TAS 100 and TAS 125 by Intertek with results shown in test reports I4298.01-450-44 and H2688.02-450-44, and 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 "SLA18BD-HZ" dated 8/15/19, signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Architectural Testing, Inc. 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 SLA18BD-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 the requirements of the 7<sup>th</sup> Edition (2020) 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.**

<u>Overall Limitations:</u>	Maximum Panel Width:	18" (nominal)
	Minimum Rib Height:	1 3/4"
	Clip Anchors:	18 Ga. galvanized steel, 3 1/2" long
	Min. Slope:	HVHZ: 2"/12" Non-HVHZ: 1/2"/12" (with Lap Sealant) 3"/12" (no Lap Sealant)

	Option #1 Installation	Option #2 Installation
Max. Design Pressure:	-123.5 psf	-198.5 psf
Clip Anchor Spacing:	4" From Ends, 17" Max. O.C.	4" From Ends, 10 1/2" Max. O.C.
Min Panel Fasteners:	#15x6" Pancake Head Fasteners (2) Per Clip	#15x6" Pancake Head Fasteners (2) Per Clip

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: Englert Metalman HT self-adhering underlayment  
(or)  
Any underlayment with a valid FLPA or Miami-Dade NOA

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.

Coverboard: ½" DensDeck Gypsum Roof Board (900 psi compressive strength, min)

Insulation: ¾" (min) to 4" (max) roof insulation with current NOA or FLPA and 20 psi (min) compressive strength

Fasteners: Gyp. Board and insulation anchored with (16) #15x6" pancake head fasteners, with 3" Dia. tabs, per 4'x4' sheet.

Minimum Substrate: 22 gauge steel B-Deck with 3½"x1½" ribs anchored to steel structure with #12x1¼" Teks screws 6" O.C. (overlaps also fastened 6" O.C)

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 permanently labeled with the manufacturer's name and/or logo, and the following statement, "Dynamic Metals FL# 27499.15, DM Class 1750".

Panel Forming:

These panels may be jobsite roll formed with the following Dynamic Metals machines, per approval of 3<sup>rd</sup> party QA provider, to the dimensions shown on Drawing SLA18BD-HZ:

SSQ-6800617  
SSQ-6690517  
5VC-0490718

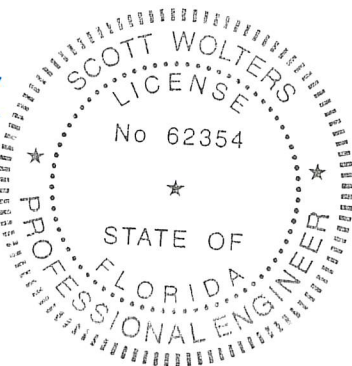
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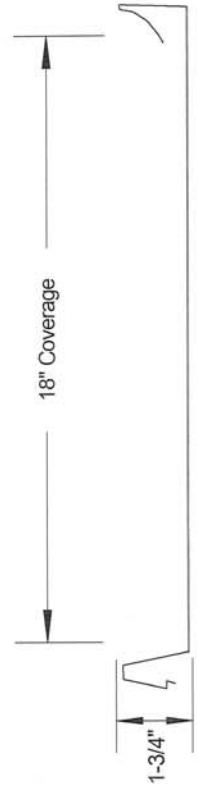
If you have any questions or need more information concerning this approval, please contact me.

Thank you,

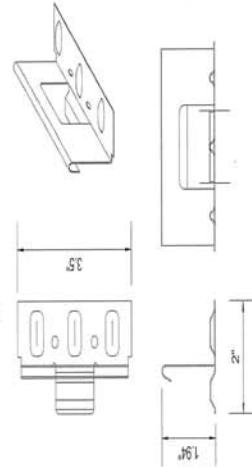
  
Scott Wolters  
FL PE# 62354  
APR 15 2021



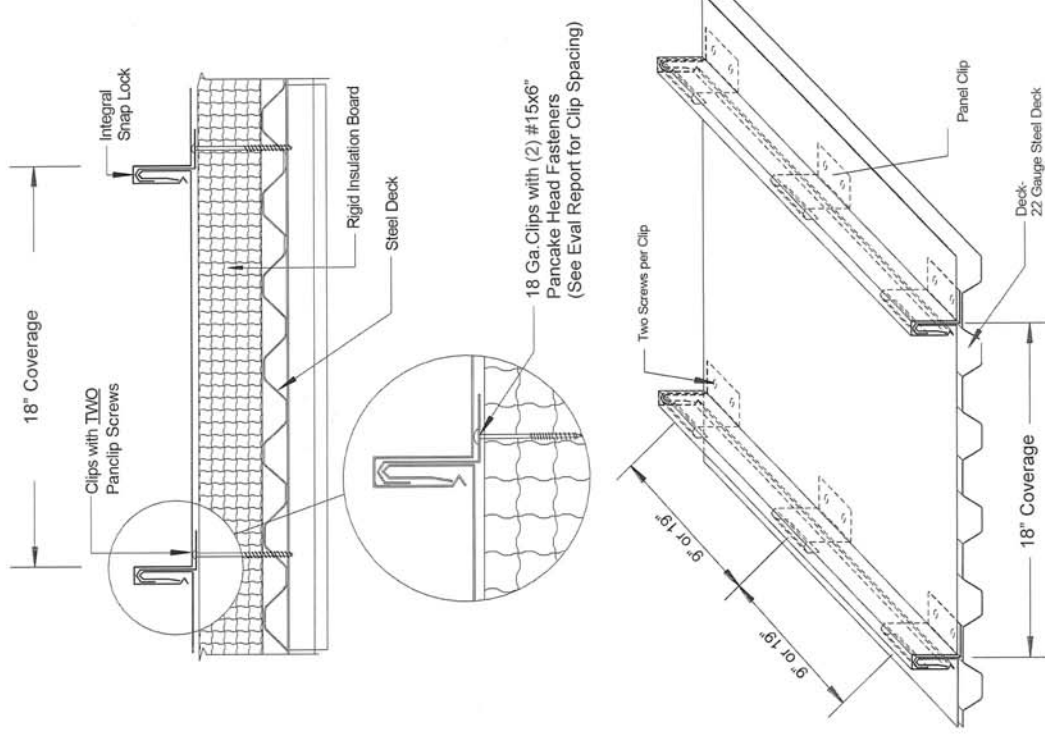
# DM CLASS 1750 1 3/4" SNAPLOCK 18" WIDE 0.032" ALUMINUM ROOF PANEL, OVER B-DECK (HVHZ)



Typical Panel Profile



18 GA Galvanized Clip



PRINTS ISSUED FOR	REV.#	DATE
1ST SUBMITTAL	-	6/18/18
NAME CHANGE	-	8/15/19



**DYNAMIC METALS**

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DWG: SLA18BD-HZ  
SHEET: 1/1