Product Report — Manufacturer: Beach Metal Roofing Supply LLC

9625 HWY 79
Panama City Beach, FL. 32413
(850) 233-9332

Florida Product Approval FL# 10684 — Sub-Category Metal Roofing — Method 1-D

Compliant with Florida Building Code 2023 (8th ed.)
Compliant with Florida Product Approval Rule # 61G20-3
Compliant Quality Assurance Program: PRI Construction Materials Technologies LLC
FBC Sections: 1504, 1506, 1507, 1515, 1518, 1523

FL 10684.1 — 1.5 Mechanical Lock 24GA over 15/32" plywood & 19/32" plywood for HVHZ

16" Wide 24GA 1-1/2" tall rib standing seam (Mechanically seam to form 180° Double lock seam) min. 50ksi over 15/32" APA plywood and 19/32" plywood for HVHZ over supports max 24" spacing - All substrate must have joints sealed w/waterproof peel and stick min 4" or entire roof covered with peel and stick - Corrosion Resistant: Fastened through slot, Fastener: #12-11 Pancake Head Type A Clips: 1500SC, 1-1/2" sliding clip assembly two piece slider top-22GA Galvanized Steel Base-16GA Galvanized Steel 1/4" min penetration thru plywood Install per Manufacturers details and RAS 133 for compliance with FBC 2023 8th ed.

Non Structural

Design Pressure	Spacing
-59.75 psf	@ 24"o.c.
-123.5 psf	@ 6"o.c.

2 Fasteners per clip

FL 10684.2 — DISCONTINUED (product no longer manufactured)

FL 10684.3 — 1.5 Mechanical Lock 0.032 Aluminum over 19/32" plywood — HVHZ

20" Wide 0.032 Aluminum 1-1/2" tall rib standing seam (Mechanically seam to form 180° Double lock seam) over 19/32" APA Grade C-D sealed plywood over supports max 24" spacing - All substrate must have joints sealed w/waterproof peel and stick min 4" or entire roof covered with peel and stick - Corrosion Resistant: #14-13 Truss Head steel fastener (2) per clip, Clips: 1500SC, 1-1/2" sliding clip assembly two piece slider top-22GA Galvanized Steel Base-16GA Galvanized Steel 1/4" min penetration thru plywood Install per Manufacturers details and RAS 133 for compliance with FBC 2023 8th ed.

Non Structural

Design Pressure	Spacing
-72.5 psf	@ 36"o.c.

2 Fasteners per clip

FL 10684.4 — 1.5 Nailstrip 24GA over 15/32" plywood & 19/32" plywood for HVHZ

15-1/2" Wide 24GA Slotted strip-snap lock 1-1/2" tall rib height min. 50ksi over 15/32" APA plywood and 19/32" plywood for HVHZ over supports max 24" spacing - All substrate must have joints sealed w/waterproof peel and stick min 4" or entire roof covered with peel and stick - Corrosion Resistant: Fastener: #12-11 Pancake Head Type A in panel slot #10-11 Eclipse Head Type A in the pan 1/4" min penetration thru plywood. Fire Barrier: Dens Deck or manufacturers details and RAS 133 for compliance with FBC 2023 8th ed.

Non Structural

Design Pressure	Spacing	
-78.5 psf	@ 11"o.c.	fastened in panel slot
-116.0 psf	@ 6-1/2"o.c.@ 12" o.c.	fastened in the panel pan

FL 10684.5 — 1.5 Snap Lock 24GA over 15/32" plywood & 19/32" plywood for HVHZ

16" Wide 24GA 1-1/2" tall rib height min. 50ksi over 15/32" APA plywood and 19/32" plywood for HVHZ over supports max 24" spacing - All substrate must have joints sealed w/waterproof peel and stick min 4" or entire roof covered with peel and stick - Corrosion Resistant: Fastener: #12-11 Pancake Head Type A in panel slot. Clips: 1500SNS , 1-1/2" sliding clip assembly. Fixed slider 18GA 3-1/2" long. 1/4" min penetration thru plywood. Any approved Fire Barrier, having NOA for HVHZ zones and install per manufacturers details and RAS 133 for compliance with FBC 2023 8th ed.

Non Structural

Design Pressure	Spacing
-86.0 psf	@ 24"o.c.
-108.5 psf	@ 12"o.c.
-116.0 psf	@ 6"o.c.

2 Fasteners

SEAL

FL 10684.6 5-V Crimp 26GA over 15/32" plywood NON-HVHZ

24" Wide 26GA 3/8" tall rib thru fastened. 50ksi over 15/32" APA plywood and over supports max 24" spacing - All substrate must have joints sealed w/waterproof peel and stick min 4" or entire roof covered with peel and stick - Corrosion Resistant: Fastener: #9-15 WoodZac w/ sealing washer 1/4" min penetration thru plywood. Paint finish optional. Min. slope shall comply with FBC Install per manufacturers details and in compliance with FBC 2023 8th ed.

Non Structural

Design Pressure	Spacing
-108.5 psf	@ 12"o.c.
-156.5 psf	@ 6"o.c.

FL 10684.7 26GA Corrugated Rib 21.25" over 15/32" plywood NON-HVHZ

21.25" Wide 26GA 2.5" tall rib. 80ksi over 15/32" APA plywood and over supports max 24" spacing - All substrate must have joints sealed w/waterproof peel and stick min 4" or entire roof covered with peel and stick - Corrosion Resistant: Fastener: 8Dx 2-1/2" nails OD sealing washers Install per manufacturers Install details and in compliance with FBC 2023 8th ed.

Non Structural

Design Pressure	Spacing
-60.0 psf	@ 10-3/4"o.c.
-97.1 psf	@ 5-1/2"o.c.

FL 10684.8 SM Rib 26GA - 29GA min. over 1x4 SYP Wood Purlins NON-HVHZ

36" Wide 26GA - 29GA min. 3/4" Rib thru fastened 80ksi over 1x4 #2 SYP Wood Purlins over one layer of asphalt shingles [optional] over underlayment min 7/16" OSB or 15/32" APA plywood and over supports max 24" spacing fastened with 8Dx 2-1/2" nails - All substrate must have joints sealed w/waterproof peel and stick min 4" or entire roof covered with peel and stick - Corrosion Resistant: Fastener: #10-16 HWH Hi-Lo thread wood screw w/ sealing washer 1/4" min penetration thru plywood. Paint finish optional. Min slope shall comply w/ FBC. Instal per manufacturers details for compliance with FBC 2023 8th ed.

Design Pressure	Spacing
-45.0 psf	@ 24"o.c.
-157.5 psf	@ 12"o.c.

LIMITATIONS

1. Underlayment to be compliance with current Florida Building Code.
2. Minimum slope to be in compliance with Florida Building Code, and in accordance with Manufacturer's installation reference.
3. Products are compliant for State of Florida product approval per Rule 61G20-3
4. Shear diaphragm values are outside this report.
5. Fire classification not part of this report.
6. All support framing to be in compliance with Florida Building Code Chapter 22 Steel, Chapter 23 Wood and Chapter 16 Structural Loading.
7. This report does not imply warranty, installation, recommended product use outside of this report. IN COMPLIANCE WITH ASCE 7-22,
8. Valspar® Fluropon™ Coating (Optional) or approved equivalent

SEAL

EQUIVALENCY STATEMENT

1. *The UL580-94 test standards are equivalent to the UL580-06 test standard.*
2. *The UL1897-98, 04 test standards are equivalent to the Ul1897-15 test standard.*
3. *The TAS 100-1995 test standards are equivalent to the TAS 100-2023*

Test References

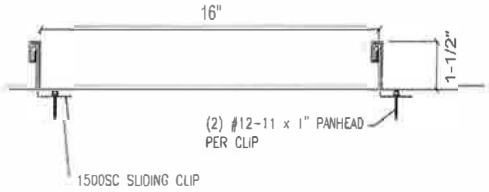
Force Engineering & Testing (TST-5328)	#72-0313T-06	TAS 125-03: UL 580-94[1]/1897-98[2]) (2006[1]/2012[2])
Farabaugh Engineering & Testing (TST-1654)	#T157-07	TAS 100-1995
Underwriters Laboratory	File #21264	UL 580-94[1]/1897-98[2]) (2006[1]/2012[2]) -UL Construction # 603 TAS 125-03· UL
Force Engineering & Testing (TST-5328)	#72-0190T-07	580-94[1]/1897-98[2]) (2006[1]/2012[2])
Farabaugh Engineering & Testing (TST-1654)	#T349-07	TAS 100-1995
PRI Construction Material Technologies (TST5878)	#VLS-004-02-01	TAS110-00(G155/B11 7)
	#VLS-005-02-01	TAS110-00(G155/B117)
Underwriters Laboratory	File #21264	UL 580-94[1]/1897-98[2]) (2006[1]/2012[2]) - UL Construction # 603 TAS 125-03: UL
Force Engineering & Testing (TST-5328)	#150-0292T-07E-G	580-94[1]/1897-98[2]) (2006[1]/2012[2])
Farabaugh Engineering & Testing (TST-1654)	#T130-07	TAS 100-1995
PRI Construction Material Technologies (TST5878)	#FAE-019-02-01	UL 580-06/UL 1897-04[2] (2012[2])

Compliance Statement: These products herein evaluated by Locke Bowden, P.E. have demonstrated compliance with the Florida Building Code with referenced documents submitted.

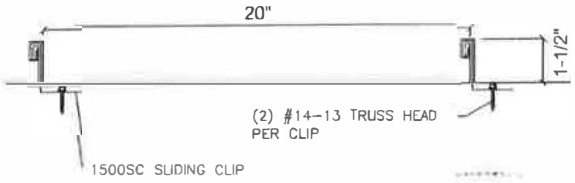
Certificate of Independence

Locke Bowden, P.E. does not have, and will not acquire a financial interest in any company manufacturing or distributing products under this evaluation. Locke Bowden, P.E. is not owned, operated or controlled by any company manufacturing or distributing products under this report.

1.5 Mechanical Lock-HVHZ

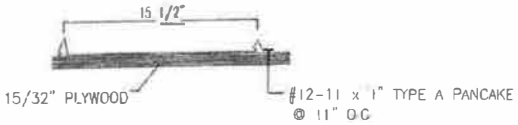


.032 Mechanical Lock Aluminum

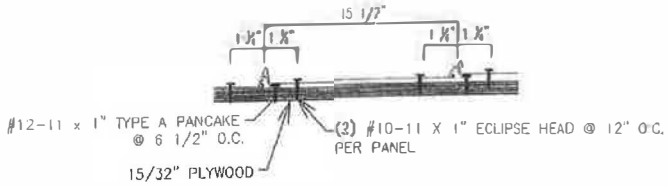


1.5 Nailstrip-HVHZ

TYPE 1 FASTENER PATTERN

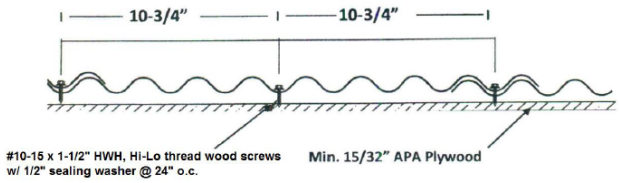


TYPE 2 FASTENER PATTERN (SEE LOAD TABLE)

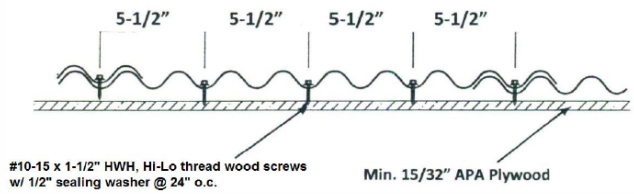


26GA CORRUGATED 2.5 RIB HT

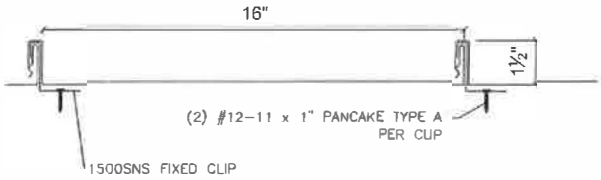
Fastening for Specimen No. 1



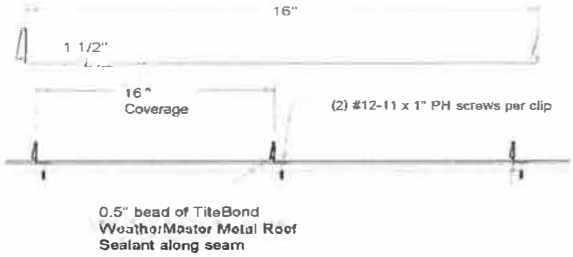
Fastening for Specimen No. 2



1.5 Snap Lock-HVHZ



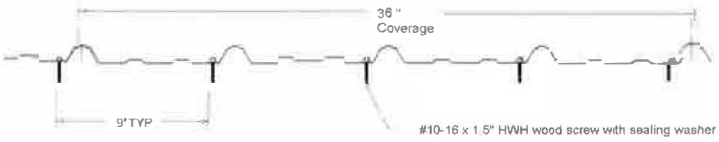
1.5 Snap Lock Aluminum-Non HVHZ



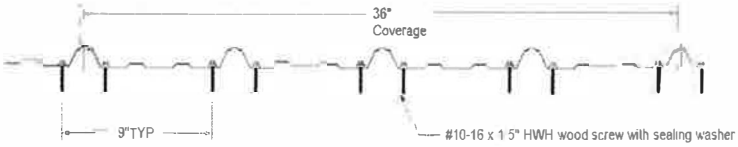
5 V Crimp 26GA-Non HVHZ

SM Rib –Non HVHZ

Fastening for battens 24"o.c.



Fastening for battens 12"o.c.



SEAL