

3638 Hwy 1
Marianna, FL 32446
(850) 594-7990

Florida Product Approval 13660

Sub-Category: Metal Roofing

NON-HVHZ

Compliant with Florida Building Code 2023 8th Ed. Compliant
with Florida Product Approval Rule # 61G20-3 Compliant

Quality Assurance Program:

FBC Sections: 1504.3.2, 1507.4.3, 1506.6, 1507.4.4, 1504.7

COMPLIANT WITH ASCE 7-22

FL 13660.1 26GA SNAP LOCK over 15/16" APA Plywood Non-Structural NON-HVHZ

16" wide min. 50 ksi 26GA Galvalume 3/4" rib height

Substrate: 15/32" APA plywood over No. 2 lumber supports @ 24" o.c. Type 1: Fastened using Corrosion resistant (1) #10-1" pancake head fastener in every third slot along perforated nail strip (approx. 15-9/16" o.c.) Type 2: Fastened using corrosion resistant (1) #10-1" pancake head fastener in every slot along nail strip (approx. 5-3/16" o.c.) with a 3/8" bead Bostik 915 sealant. Install per manufacturer's details and in compliance w/ FBC 2023. Min. slope shall comply w/ FBC 2023.

**Design Pressure	Spacing
30.0 PSF @ 15-9/16" o.c. (approx) in every third panel slot	
183.5 PSF @ 5-3/16" o.c. (approx) in every panel slot	

FL 13660.2 AG RIB 29GA over 15/16" APA Plywood Non-Structural NON-HVHZ

36" wide 80ksi 0.0145 min. thickness 3/4" tall rib 9" o.c. height thru fastened

Substrate: 15/32" APA 4-ply plywood, fastened to substrate supports at 24" o.c. minimum, must be designed in compliance with FBC 2023. Corrosion Resistant Fastener #10-15 x 1-1/2" HighLo Woodgrip® w/ sealing washer or approved equal, 3/8" min. penetration thru plywood, an approved paint coating (optional). Install per manufacturer's details and in compliance w/ FBC 2023. Min. slope shall comply w/ FBC 2023. For slopes less than 3:12, lap sealant must be used in side laps.

**Design Pressure	Fastening Pattern	Spacing
-78.5	9"-9"-9"-9"	@ 24" o.c.
-108.5	6"-3"-6"-3"-6"-3"-6"-3"	@ 24" o.c.

FL 13660.3 AG RIB 29GA over 1X4 over 15/32" APA Plywood Non-Structural NON-HVHZ

36" wide 80ksi 0.0145 min. thickness 3/4" tall rib 9" o.c. height thru fastened
Substrate: 1x4 No. 2 SYP wood batten min. over 15/32" APA plywood, fastened to substrate supports at 24" min. Must be designed in compliance w/ FBC 2023. Corrosion Resistant Fastener #10-15 x 1-1/2" HighLo Woodgrip® w/ sealing washer or approved equal, 3/8" min. penetration thru plywood. 1x4 wood purlins attached to plywood into every rafter (24" o.c. max) w/ (2) 8x3" deck screws (min. 1 5/8" into wood rafter), an approved paint coating (optional). Install per manufacturer's details and in compliance w/ FBC 2023. Min. slope shall comply w/ FBC 2023. For slopes less than 3:12, lap sealant must be used in panel side laps.

**Design Pressure	Fastening Pattern	Spacing
-108.5	9"-9"-9"-9"	@ 24" o.c.
-183.5	6"-3"-6"-3"-6"-3"-6"	@ 24" o.c.

**Design Pressure includes a Safety Margin of 2:1

Reference Data:

Force Engineering & Testing (TST-5328) 384-0030T-10 A, B
Force Engineering & Testing (TST-5328) 384-0030T-10 C, D
Force Engineering & Testing (TST-5328) 384-0030T-10 E

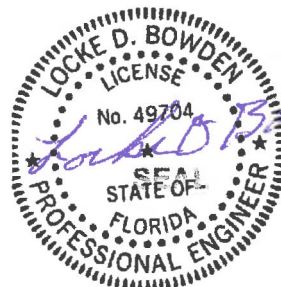
PRI Construction Materials Technologies (TST-5878) FAE 024-02-01

1. The UL 1897-D4 test standard is equivalent to UL 1897-15 test standard.

Certificate of Independence:

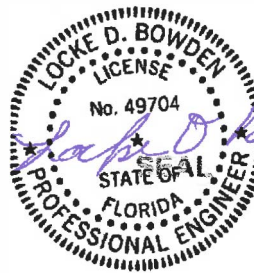
Locke Bowden, P.E. does not have, nor will acquire a financial interest in any company manufacturing or distributing products
Locke Bowden, P.E. is not owned, operated, or controlled by a company, manufacturer or distributing products under this report.

UL 1897/UL 580 (2004¹/2006)
UL 1897, /UL 580 (2004¹/2006)
FM 4471 (1992)
UL 1987/UL 580 (2004¹/2006)



LOCKE BOWDEN, P.E.

**Marianna Metals
Installation Details
FL 13660**



Locke D. Bowden
4/22/24

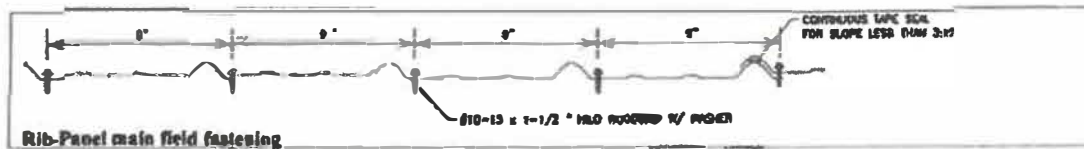
COMPLIANT WITH ASCE 7-22

Limitations:

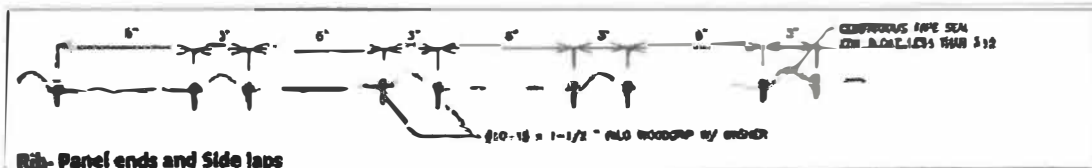
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1. Underlayment to be compliance with current Florida Building Code (FBC)2023, Chart 1507.1.1
2. Minimum slope to be compliant with Florida Building Code 2023, and per with Manufacturer's Installation reference.
3. Products are compliant for State of Florida product approval per Rule 61G20-3. Compliance Method: 1-D
4. Engineering analysis for "project specific approval by local authorities w/jurisdiction is allowed by other registered engineers.
5. Fire classification is not part of this acceptance. Shear diaphragm values are outside this report.
6. Support framing in compliance w/FBC 2023, Chapter 22 for Steel, Chapter 23 for Wood, Chapter 16 for Structural Loading.
7. This report does not imply warranty, installation, recommended product use outside of this report.

AG Rib Panel 29GA min.

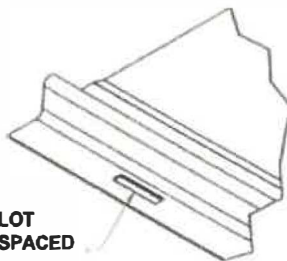


Rib Panel main field fastening



Rib Panel ends and Side laps

26GA Snap Lock over 15/32" APA Plywood



1" X 1/4" SLOT
EQUALFY SPACED
EVERY 5 3/8"

DETAIL A



DETAIL A

23/32 (18.1)

