

Product Report

Manufacturer: ARMORED METAL WORKS

ALSO KNOWN AS (AMW Contracting, INC)

144 Arlington Rd. South, Suite 3

Jacksonville, FL 32216

(904) 219-9778

Florida Product Approval 8651

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: Keystone Certifications

FBC Sections: 1504, 1506, 1507, 1515, 1518, 1523

FL 8651.1 Rhino Rib 1" Nail Strip 24GA Steel Roof Panel over 15/32"

Non-HVHZ

16" Wide

Female Rib: 1" tall

Male Rib: 3/4" tall rib w/ slotted strip

Panel Seam: Snap Lock

Min: 50 ksi

.024" Min. thickness, 24GA Steel conforming to FBC 2023 8th ed.

Self-adhered roofing underlayment min. 40 mil thickness.

Corrosion Resistant Fastener: To penetrate 3/4" min through plywood

Through Panel Slot: (1) #10-13 x 1" GP Pancake Type A

In Pan of Panel: (2) #10-13 x 1" Eclipse Head Type A

Substrate: Min. 15/32" APA Plywood over supports at max. 24" O.C.

Min. slope shall comply w/ FBC 2023 8th ed.

**Design Pressure:	Panel Slot Fastener Spacing:	Panel Pan Fastener Spacing:
-59.75 PSF	16" O.C.	N/A
-101.0 PSF	6 3/4" O.C.	N/A
-153.5 PSF	6 3/4" O.C.	12" O.C.

FL 8651.2 Rhino Rib 1.5" Snap Lock 24GA Steel Roof Panel over 15/32" Plywood

HVHZ

16" Wide

Rib Height: 1 1/2"

Panel Seam: Snap Lock, Standing Seam

Valspar Fluoropon Coating (Optional)

Min. 50 ksi

.024" Min thickness, 24GA Steel, ASTM A792 OR ASTM A653 G90 conforming to FBC 2023 8th ed.

[See Table 1507.4.3(2)]

Roof Panel Clip: 1500SNS, Fixed, 18GA, 3 1/2" Long

Corrosion Resistant Fastener: (2) #12-11 x 1" Pancake Type A, 1/2"

min. penetration into plywood.

Fire Barrier: Any approved fire barrier having a current NOA.

Substrate: Min. 15/32" APA Plywood over supports at max. 24" O.C.

Slope: 2:12; min. slope shall comply w/ FBC 2023 8th ed.

Install per manufacturer's instructions and RAS 133.

Underlayment: See FBC Sec 1507, Table 1507

**Design Pressure:	Clip Spacing:	Fasteners Per Clip:
-86.0 PSF	24" O.C.	2
-108.5 PSF	12" O.C.	2
-116.0 PSF	6" O.C.	2

Reference Data:

**DESIGN PRESSURE INCLUDES A SAFETY MARGIN OF 2:1

Force Engineering & Testing (TST-5328)

72-0314T-06

UL 580-94¹/ UL 1897-98²

Farabaugh Engineering & Testing (TST-1654)

T158-07

TAS 100-95

Force Engineering & Testing (TST-5328)

72-0108T-07***

TAS 125-03 (UL 580-94¹/ UL 1897-98²)

Farabaugh Engineering & Testing (TST-1654)

T107-07***

TAS 100-95

PRI Asphalt Technologies

VLS-004-02-01/VLS-005-02-01

TAS 110-00 (ASTM G 26/ASTM B 117)

1. UL 580-94 test standard is equivalent to UL 580-06 test standards. (TAS 100-95 is equivalent to TAS 100-2023)

2. UL 1897-98 test standard is equivalent to UL 1897-12 test standard is equivalent to UL 1897-15

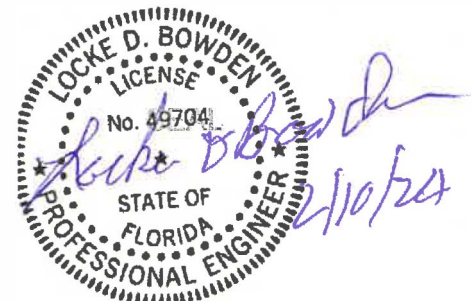
* These test reports are owned by Metal Forming, Inc. Metal Forming Inc. gives this manufacturer permission to share testing.

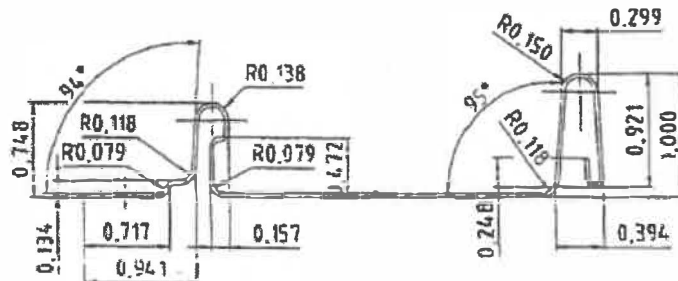
Limitations:

1. Underlayment to be compliance with current Florida Building Code (FBC)2023 8th ed.. see Chart 1507
2. Minimum slope to be compliant with Florida Building Code 2023 8th ed., and per with Manufacturer's installation reference.
3. Products are compliant with 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 8th ed., 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.

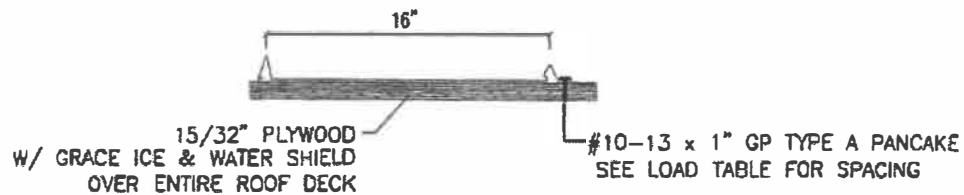
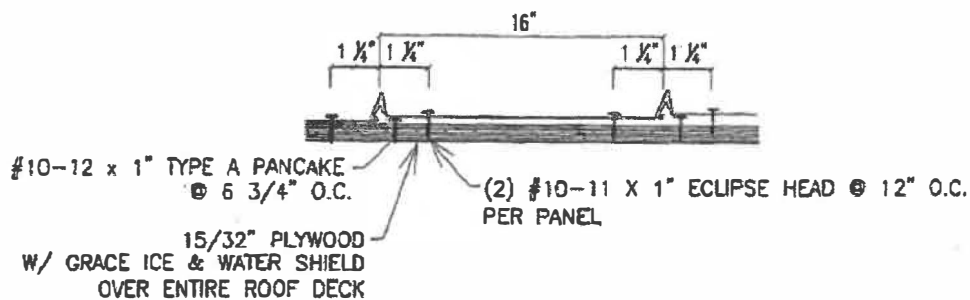
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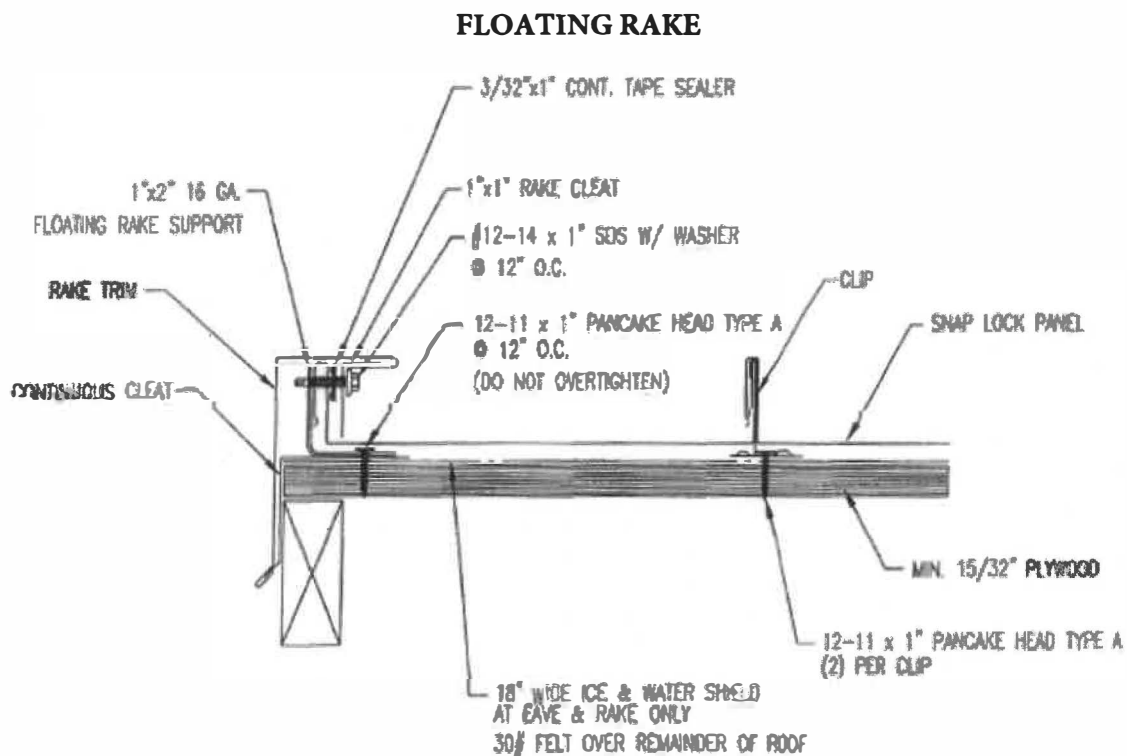
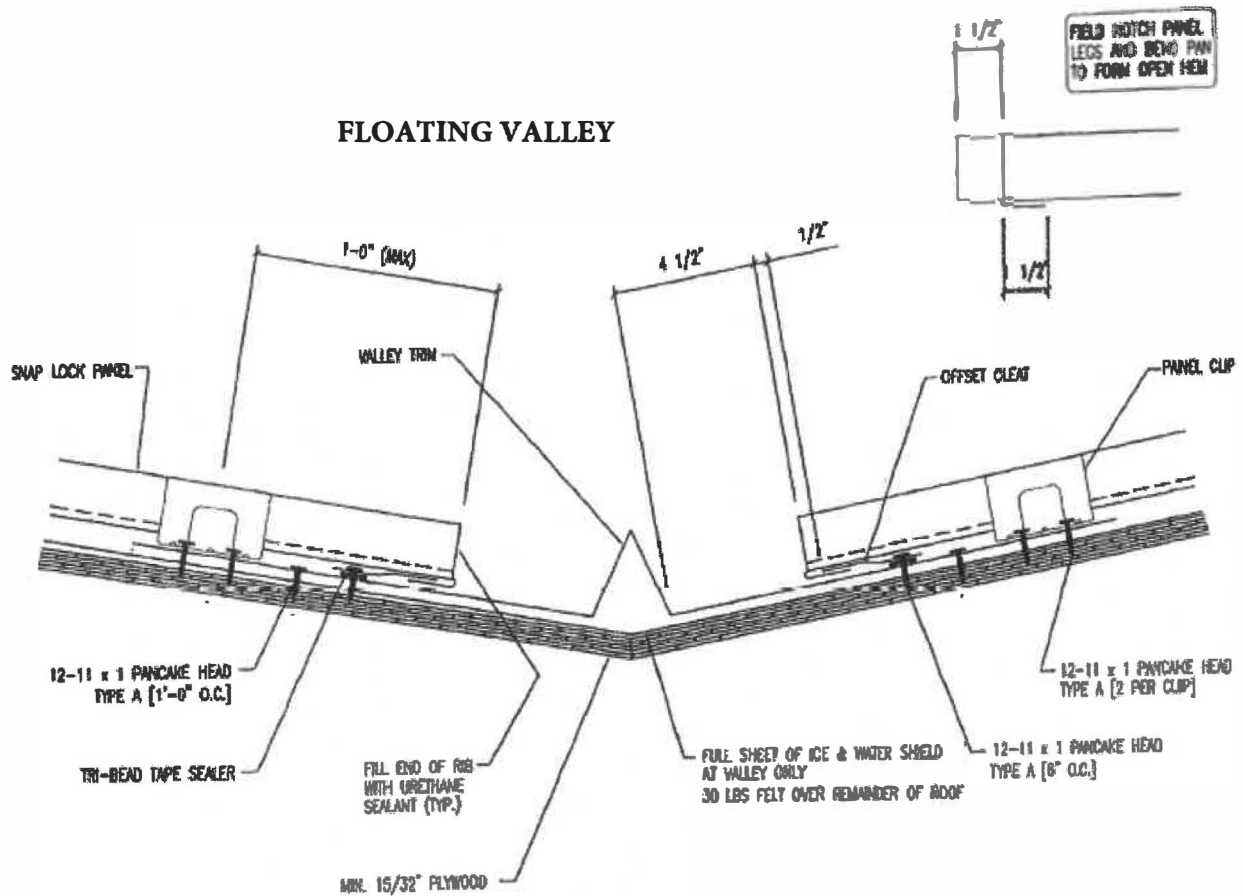


Nailstrip 1"

Rhino Rib 1" Nailstrip 24GA 16" Wide Roof Panel over 15/32" Plywood

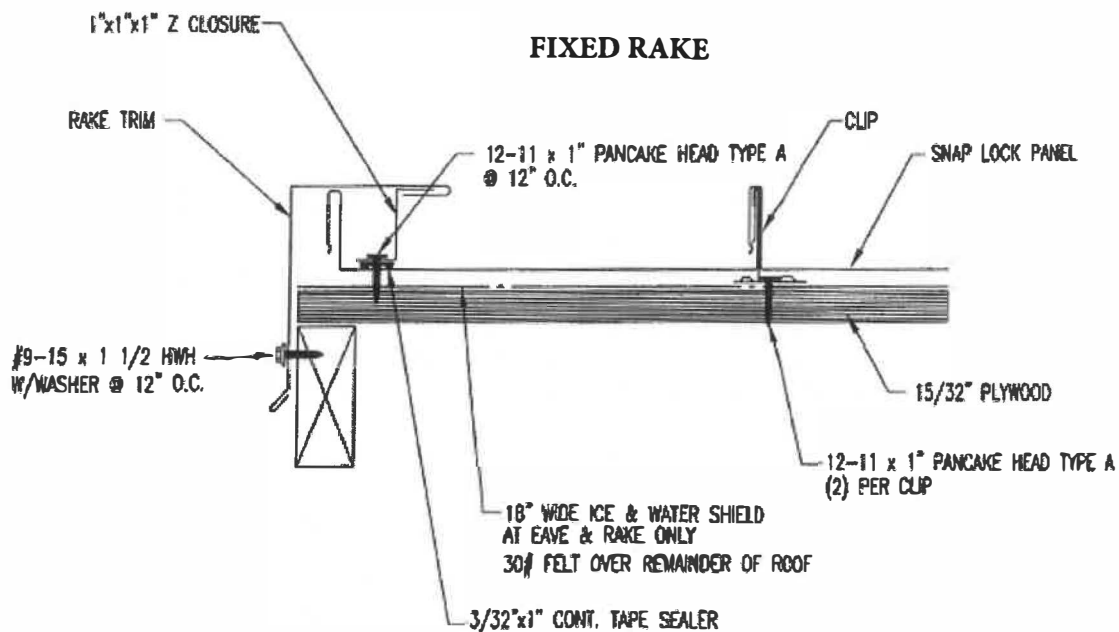
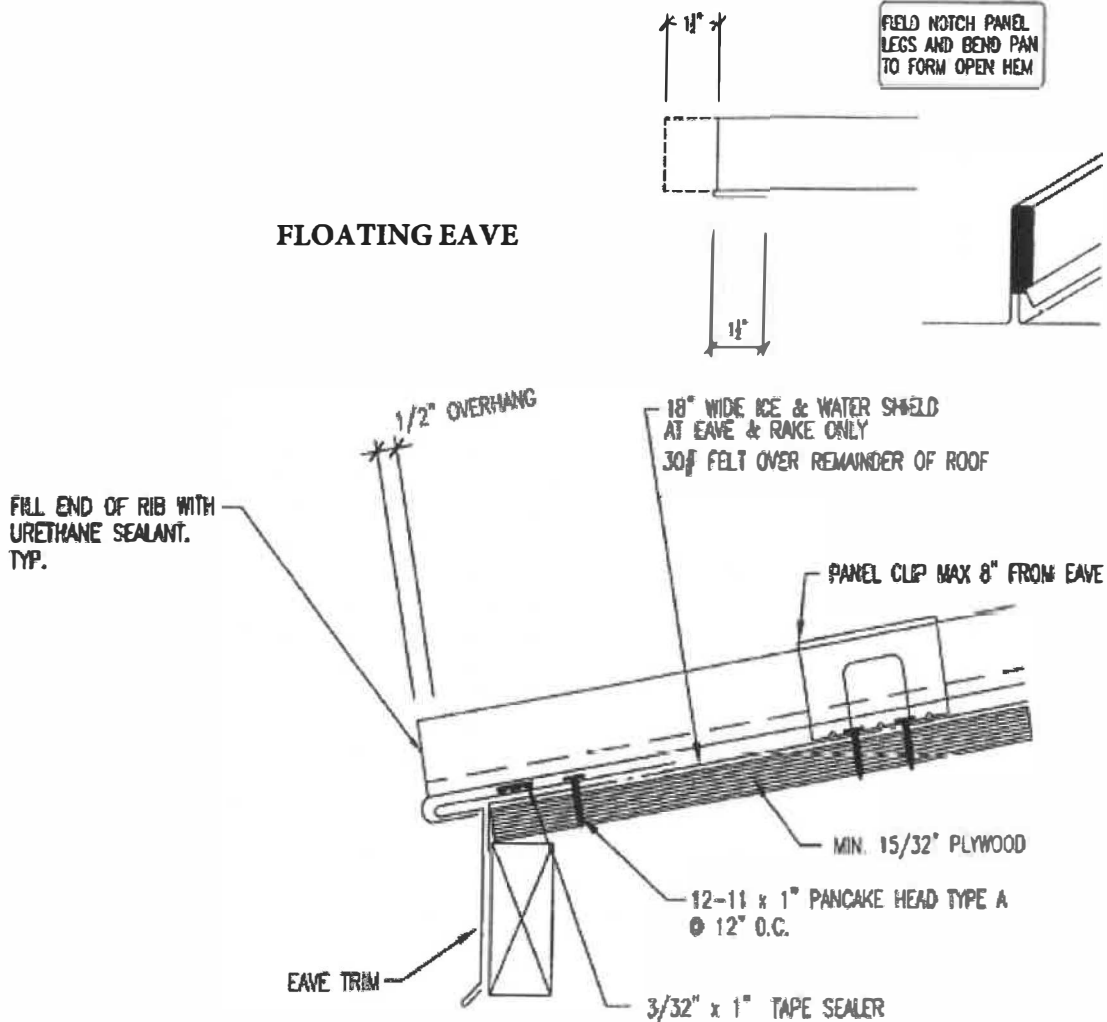
TYPE 2 FASTENER PATTERN (SEE LOAD TABLE)Buildings having a Roof Mean Height $\leq 20'-0"$; Roof Slope: 2"/12" - 6"/12" Gable or Hip Roof

1" 24 GA. NAILSTRIP FASTENER SPACING							
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE				
			120	130	140	150	160
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	(1) #10-13 x 1"	15/32" CDX PLYWOOD	16" TYPE 1	16" TYPE 1	16" TYPE 1	16" TYPE 1	16" TYPE 1
ZONE 2	(1) #10-13 x 1"	15/32" CDX PLYWOOD	6 3/4" TYPE 1	6 3/4" TYPE 1	6 3/4" TYPE 1	6 3/4" TYPE 1	6 3/4" TYPE 1
ZONE 3	(1) #10-13 x 1"	15/32" CDX PLYWOOD	6 3/4" TYPE 1	6 3/4" TYPE 1	6 3/4" TYPE 1	6 3/4" TYPE 1	6 3/4" TYPE 1



FL 8651 Rhino Rib 1.5" Snap Lock Installation Details ARMORED METAL WORKS

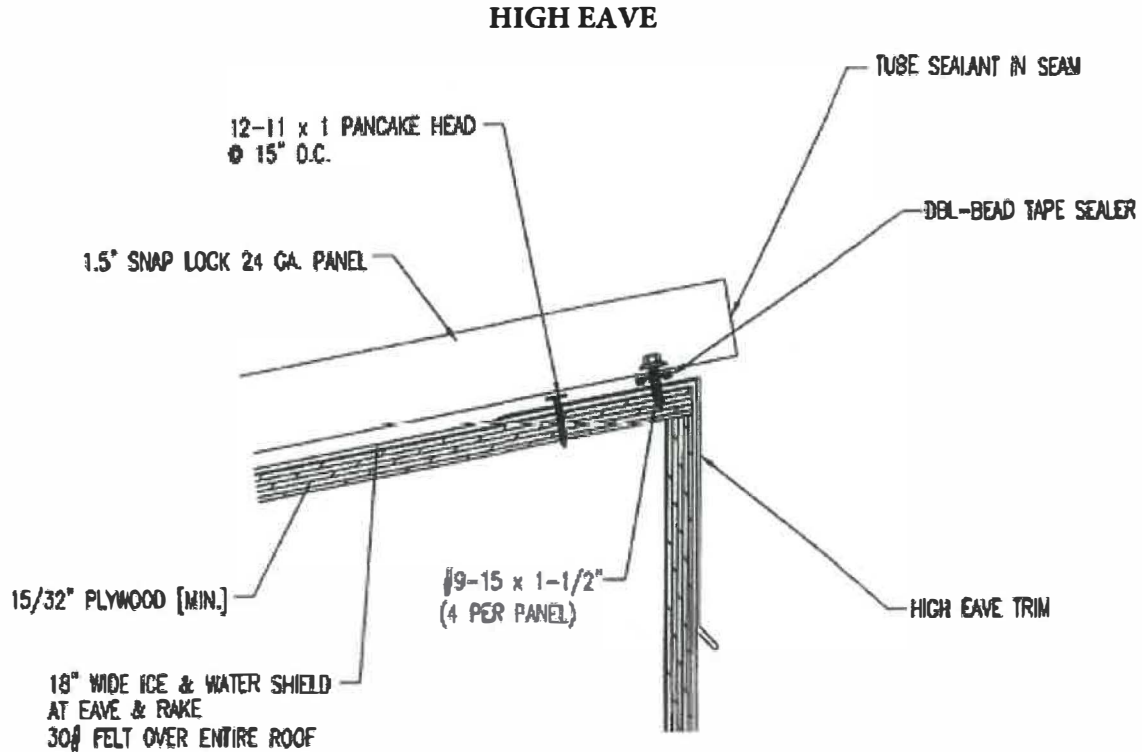
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FL 8651 Rhino Rib 1.5" Snap Lock Installation Details

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Buildings having a Roof Mean Height ≤ 20'-0"; Roof Slope: 2"/12" - 6"/12" Gable or Hip Roof

1.5" 24 GA. SNAP LOCK, 16" WIDE, CLIP SPACING							
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE				
			140	150	160	170	180
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	(2) #12-11 x 1"	15/32" CDX PLYWOOD	24"	24"	24"	24"	24"
ZONE 2	(2) #12-11 x 1"	15/32" CDX PLYWOOD	24"	24"	24"	24"	24"
ZONE 3	(2) #12-11 x 1"	15/32" CDX PLYWOOD	12"	12"	12"	6"	6"

