

Product Report

Manufacturer: Florida Southern Roofing

6653 19TH Street East

Sarasota, FL 34243

(941) 954-8811

Florida Product Approval 8655

Sub-Category: Metal Roofing

Method: 1-D

Compliant with Current Florida Building Code /ASCE 7-22 Compliant

Compliant with Florida Product Approval Rule #61G20-3 Compliant

FBC Sections 1504,1507,1518,1523

Quality Assurance Program: KEYSTONE -Active * Underlayments to be compliant w/FBC 2023 8TH ed. Chart 1507.

FL 8655.1

1.5 Mechanical Lock 24GA Roof Panel over 15/32" APA Plywood

HVHZ

24GA Steel, ASTM A792 Coated w/ Valspar Fluoropon or ASTM A653 G90 conforming to FBC Yield Strength: Min. 50ksi 16" Wide Rib Height: 1-1/2" Panel Seam: 180° Seam, Double Lock w/ mechanical seamer Roof Panel Clip: 1500SC, 1-1/2" Sliding Clip Assembly, 2 piece slider Top: 22GA Galvanized Steel Base 16GA Galvanized Steel. See RAS 133 Corrosion Resistant Clip Fastener: (2) #12-11 x 1" Pancake Head Type A to penetrate min. 1/4" through plywood Substrate: Min. 15/32" APA Plywood over supports at max. 24" O.C. ; for HVHZ NEW CONSTRUCTION 19/32"

**Design Pressure:	Clip Spacing:	Fasteners Per Clip:
-59.75 PSF	24" O.C.	2
-123.5 FPSF	6" O.C.	2

FL 8655.2

1.5 Nailstrip 24GA Roof Panel over 15/32" APA Plywood

HVHZ

24GA Steel, ASTM A792 Coated w/ Valspar Fluoropon or ASTM A653 G90 conforming to FBC Yield Strength: Min. 50ksi 15 1/2" Wide Female Rib Height: 1-1/2" Male Rib 3/4" Panel Seam: Snap Lock Corrosion Resistant Fasteners to penetrate min. 1/4" through plywood - through panel slot: Corrosion Resistant (1) #12-11 x 1" pancake Type A in Pan Panel: (2) #10-11 x 1" Eclipse Head Type A See RAS 133 Substrate: Min. 15/32" APA Plywood over supports at max. 24" O.C. ; for HVHZ NEW CONSTRUCTION 19/32"

**Design Pressure:	Panel Slot Fastener Spacing:	Panel Pan Fastener Spacing:
-78.5 PSF	11" O.C.	N/A
-116.0 PSF	6 1/2" O.C.	12" O.C.

FL 8655.3

1.5 Snap Lock 24GA Roof Panel over 15/32" APA Plywood

HVHZ

24GA Steel, ASTM A792 Coated w/ Valspar Fluoropon or ASTM A653 G90 conforming to FBC Yield Strength: Min. 50ksi 16" Wide Rib Height: 1-1/2" Panel Seam: Snap Lock Roof Panel Clip: 1500SC, 1-1/2" Fixed 18GA 3 1/2" Long Corrosion Resistant Clip Fastener: (2) #12-11 x 1" Pancake Head Type A to penetrate min. 1/4" through plywood See RAS 133 Substrate: Min. 15/32" APA Plywood over supports at max. 24" O.C. ; for HVHZ NEW CONSTRUCTION 19/32"

**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

FL 8655.4

1 3/4" Snap Lock 24GA Roof Panel over 15/32" APA Plywood

NON_HVHZ

24GA Steel conforming to FBC Yield Strength: Min. 50ksi 18" Wide Rib Height: 1-3/4" Panel Seam: Snap Lock Roof Panel Clip: DMP 175 SL, Fixed 18GA 2 1/4" Long Corrosion Resistant Clip Fastener: (2) #10-13 x 1" GP Concealor to penetrate min. 1/4" through plywood Substrate: Min. 15/32" APA Plywood over supports at max. 24" O.C.

**Design Pressure:	Clip Spacing:	Fasteners Per Clip:
-74.25 PSF	24" O.C.	2

Reference Data: See Limitations on Install Details

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

Force Engineering & Testing (TST-5328)	72-0313T-06	TAS 125-03 (UL 580-94/UL 1897-98)
Farabaugh Engineering & Testing (TST-1654)	T157-07	TAS 100-95
PRI Asphalt Technologies		TAS 110-00 (ASTM G 26/ ASTM B 117)
Force Engineering & Testing (TST-5328)	72-0190T-07	TAS 125-03 (UL 580-94/UL 1897-98)
Farabaugh Engineering & Testing (TST-1654)	T349-07	TAS 100-95
Force Engineering & Testing (TST-5328)	72-0108T-07	TAS 125-03 (UL 580-94/UL 1897-98)
Farabaugh Engineering & Testing (TST-1654)	T107-07	TAS 100-95
Force Engineering & Testing (TST-5328)	92-0348T-06	UL 580-94/UL 1897-98
1. UL 580-94 test standards are equivalent to the UL 580-06 test standards		
2. UL 1897-98 test standards are equivalent to the ul 1897-12 test standards		
Metal Forming has authorized Florida Southern Roofing to share testing		



**EQUIVALENCY STATEMENT TAS 100-95 is equivalent to TAS 100-23
UL 1897-98 is equivalent to UL 1897-15

Certificate of Independence: Locke Bowden, P.E. does not nor will 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 or manufacturer distributing products under this report.

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Limitations:

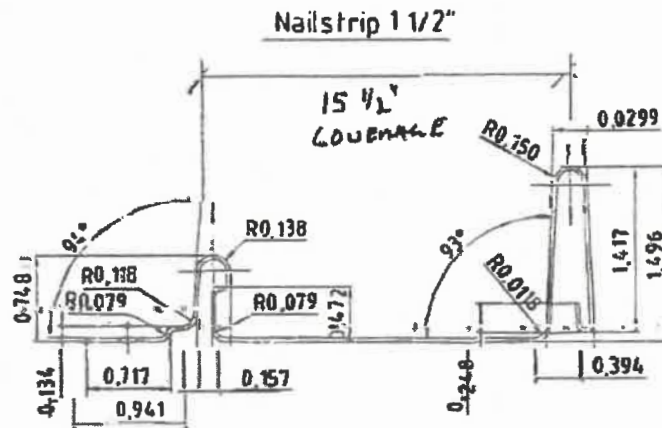
1. Underlayment to be compliance with current Florida Building Code (FBC) see Chart 1507
2. Minimum slope to be compliant with Florida Building Code and per with Manufacturer's Installation reference.
3. Products are compliant with State of Florida product approval per Rule 61G20-3. Compliance Method: 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 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.

1.5" 24 GA. NAILSTRIP FASTENER 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	{1} #12-11 x 1"	15/32" CDX PLYWOOD	11" TYPE 1	11" TYPE 1	11" TYPE 1	11" TYPE 1	11" TYPE 1
ZONE 2	{1} #12-11 x 1"	15/32" CDX PLYWOOD	11" TYPE 1	11" TYPE 1	11" TYPE 1	6 1/2" / 12" TYPE 2	6 1/2" / 12" TYPE 2
ZONE 3	{1} #12-11 x 1"	15/32" CDX PLYWOOD	11" TYPE 1	11" TYPE 1	6 1/2" / 12" TYPE 2	6 1/2" / 12" TYPE 2	6 1/2" / 12" TYPE 2

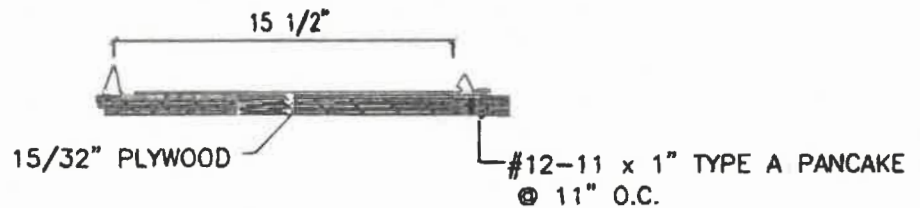
Buildings having a Roof Mean Height less than or equal to 20'-0"; Roof Slope: 2"/12" - 6"/12" Gable or Hip Roof



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TYPE 1 FASTENER PATTERN (SEE LOAD TABLE)



TYPE 2 FASTENER PATTERN (SEE LOAD TABLE)

