

PRODUCT REPORT**MANUFACTURER: MARLYN METALS, INC**

FOR ALL PANELS UNDER FL# 8393 fasteners must be corrosion resistant compliant w/FBC 2026 9th ed. sec. 1711.
This evaluation does not cover sec.1504.3.1.1 of the FBC 2026 and may be met by use of other approved products.

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FLORIDA PRODUCT APPROVAL 8393**SUB-CATEGORY: METAL ROOFING****METHOD 1-D**

COMPLIANT WITH CURRENT FLORIDA BUILDING CODE FBC 2026 9TH ED.

COMPLIANT WITH FLORIDA PRODUCT APPROVAL RULE #61620-3 - COMPLIANT QUALITY ASSURANCE PROGRAM: UL LLC

FL 8393.1 PRODUCT: 5V CRIMP 26GA OVER 15/32" SEALED PLYWOOD (EXISTING) 19/32" (NEW) NON-STRUCTURAL**HVHZ**

24"WIDE 50 KSI 3/8 RIB HEIGHT THROUGH FASTENED FOR HVHZ INSTALL PER RAZ 133

SUBSTRATE: 15/32" APA PLYWOOD, VALSPAR FLUOROPON COATING (OPTIONAL) CORROSION RESISTANT # 9-15 WOODZAC W/ZAC HEAD
W/ SEALING WASHER, THROUGH PANEL RIB. (OPTIONAL: FASTENER IN THE FLAT OF THE PANEL NEXT TO THE RAISED RIB

DESIGN PRESSURE	FASTENER SPACING
-108.5 PSF	12" o.c.
-156.5 PSF	@ 6" o.c, in panel rib

FL 8393.2 PRODUCT: 5V CRIMP 26GA OVER 19/32" PLYWOOD NON-STRUCTURAL**NON-HVHZ**

24"WIDE 50 KSI 1/4" RIB HEIGHT THROUGH FASTENED

SUBSTRATE: 19/32" APA PLYWOOD, AT EVERY JOINT WITH ONE-PART URETHANE SEALANT, GRADE C-D. CORROSION RESISTANT # 9-15
HWH W/ SEALING WASHER PANCAKE HEAD TYPE A IN FLAT OF PANEL. (OPTIONAL: FASTENER IN THE FLAT OF THE PANEL NEXT TO
THE RAISED RIB

DESIGN PRESSURE	FASTENER PATTERN	FASTENER SPACING
-52.5 PSF	9"- 2"- 9"	@ 36" o.c.

FL 8393.3 PRODUCT: 5V CRIMP 29GA OVER 15/32" PLYWOOD NON-STRUCTURAL**NON-HVHZ**

24"WIDE 80 KSI 1/4" RIB HEIGHT THROUGH FASTENED

SUBSTRATE: 15/32" APA PLYWOOD, GRADE C-D. CORROSION RESISTANT # 9-15 HWH W/ SEALING WASHER PANCAKE HEAD TYPE A IN
FLAT OF PANEL. (OPTIONAL: FASTENER IN THE FLAT OF THE PANEL NEXT TO THE RAISED RIB

DESIGN PRESSURE	FASTENER PATTERN	FASTENER SPACING
-52.5 PSF	12"- 8"	@ 12" o.c.

FL 8393.4 PRODUCT: MAR-RIB 29GA OVER 15/32" PLYWOOD**NON-STRUCTURAL****NON-HVHZ**

36"WIDE 80 KSI 3/4" RIB HEIGHT THROUGH FASTENED

SUBSTRATE: 15/32" APA PLYWOOD, AT EVERY JOINT WITH ONE-PART URETHANE SEALANT, GRADE C-D. CORROSION RESISTANT # 9-15
HWH W/ SEALING WASHER, FOR SLOPES LESS THAN 3:12 USE SEALANT IN PANEL SIDE LAPS

DESIGN PRESSURE	FASTENER PATTERN	FASTENER SPACING
-52.5 PSF	9"- 9"- 9"- 9"	@ 12"

FL 8393.5 PRODUCT: MAR-RIB 29GA OVER 19/32" PLYWOOD**NON-STRUCTURAL****NON-HVHZ**

36"WIDE 80 KSI 3/4" RIB HEIGHT THROUGH FASTENED

SUBSTRATE: 19/32" APA PLYWOOD, GRADE C-D OR 2X4 WOOD LATHING. CORROSION RESISTANT FASTENER # 10 - 1-1/2 " HWH W/
SEALING WASHER, PANCAKE TYPE A

DESIGN PRESSURE	FASTENER PATTERN	FASTENER SPACING
-52.5 PSF	9"- 9"- 9"- 9"	@ 24" o.c.

FL 8393.6 PRODUCT: PBR 26GA OVER 15/32" PLYWOOD**NON-STRUCTURAL****HVHZ**

36"WIDE 80 KSI 1-1/4" RIB HEIGHT @ 12" o.c. THROUGH FASTENED FOR HVHZ INSTALL PER RAS 133

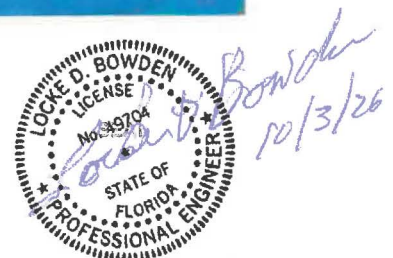
SUBSTRATE: 15/32" PLYWOOD DECKING, GRADE C-D OR 2X4 WOOD LATHING. CORROSION RESISTANT FASTENER #9-15 WOODGRIP W/
SEALING WASHER OR APPROVED EQUAL, 1/4" MIN. PENETRATION THROUGH PLYWOOD.

DESIGN PRESSURE	FASTENER PATTERN	FASTENER SPACING
-60.6 PSF	12"- 12"- 12"	@ 24" o.c.
- 154.75 PSF	7"- 5"- 7"- 5"- 7"- 5"	@ 12" o.c.

Certificate of Independence:

Locke Bowden, P.E. does not have, 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, manufacturer,
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FL 8393.7 Product: PBR 26GA over 1X4 Wood Purlins over Plywood Non-Structural HVHZ

36" wide 1-1/4" rib height at 12" o.c. through fastened FOR HVHZ INSTALL PER RAS 133

Substrate: 1x4 wood purlins (optional) over 15/32" APA plywood. Wood purlins fastened to plywood w/ min. 8DX2-1/2" ring shank nails at 4" o.c. max spacing. Corrosion Resistant Fastener #9-15 Woodgrip® w/ sealing washer or approved equal, X" min. penetration through plywood.

Design Pressure	Fastener Pattern	Fastener Spacing
-100.5 PSF	12"- 12"- 12"	@ 24 o.c.
-151.75 PSF	7"- 5"- 7"- 5"- 7"- 5"	@ 12" o.c.

FL 8393.8 Product: 3/4" Rib 26GA over 15/32" Plywood Non-Structural Application HVHZ

36" wide 80ksi 3/4" rib height through fastened FOR HVHZ INSTALL PER RAS 133

Substrate: 15/32" plywood decking. Corrosion Resistant Fastener #9-15 Woodgrip® w/ sealing washer or approved equal, X" min. penetration through plywood.

Design Pressure	Fastener Pattern	Fastener Spacing
-71.75 PSF	9"- 9"- 9"- 9"	@ 24 o.c.
-159.25 PSF	6.5"- 2.5"- 6.5"- 2.5"- 6.5"- 2.5"- 6.5"- 2.5"	@ 12" o.c.

FL 8393.9 Product: 3/4" RIB 26GA over 1X4 Wood Purlins over 15/32" Plywood Non-Structural HVHZ

36" wide 80ksi 3/4" rib height through fastened FOR HVHZ INSTALL PER RAS 133

Substrate: 1x4 wood purlins over 15/32" APA plywood. Purlins fastened to plywood w/ min. 8DX2-1/2" ring shank nails at 4" o.c. spacing. Corrosion Resistant Fastener #9-15 Woodgrip® w/ sealing washer or approved equal, X" min. penetration thru PLY WOOD

Design Pressure	Fastener Pattern	Fastener Spacing
-106.75 PSF	9"- 9"- 9"- 9"	@ 24 o.c.
-164.25 PSF	9"- 9"- 9"- 9"	@ 12" o.c.

****DESIGN PRESSURE INCLUDES A 2:1 SAFETY FACTOR**

Reference Data:

Underwriters Laboratory
Underwriters Laboratory
Underwriters Laboratory
Underwriters Laboratory
Underwriters Laboratory

Construction #600
Construction #587
Construction #589
Construction #453
Construction #579

UL 580-94¹
UL 580-94¹
UL 580-94¹
UL 580-94¹
UL 580-94¹

Force Engineering & Testing (TST-5328)

205-035T-11 C

Force Engineering & Testing (TST-5328)

205-0061T-070-Q

Farabaugh Engineering & Testing (TST-5328)

T130-07, T215-08

PRI Construction Materials Technologies (TST-5878) VLS-004-02-01
VLS-005-02-01

Underwriters Laboratory

Construction #584

Force Engineering & Testing (TST-5328)

205-035T-11 B

Underwriters Laboratory

Construction #560

Force Engineering & Testing (TST-5328)

205-035T-11 B

Force Engineering & Testing (TST-5328)

205-0061T-07 G-I

Farabaugh Engineering & Testing (TST-1654)

T132-07

Force Engineering & Testing (TST-5328)

205-0061T-07 J-L

Farabaugh Engineering & Testing (TST-1654)

T129-07

Farabaugh Engineering & Testing (TST-1654)

Force Engineering & Testing (TST-5328)

T273-07

Farabaugh Engineering & Testing (TST-1654)

205-

Farabaugh Engineering & Testing (TST-1654)

T126-07

Force Engineering & Testing (TST-5328)

T270-08

Farabaugh Engineering & Testing (TST-1654)

205-0061T-07 D-F

Force Engineering & Testing (TST-5328)

T128-07

Farabaugh Engineering & Testing (TST-1654)

T272-08

Force Engineering & Testing (TST-5328)

72-0219T-07

Farabaugh Engineering & Testing (TST-1654)

T233-07

PRI Construction Materials Technologies (TST-5878) VLS-004-02-01

Limitations:

VLS-005-02-01

FM 4471-10²

TAS 125-03 (UL 580-94¹/1897-98³)

TAS 100-95

TAS 110-00 (ASTM G 155)

TAS 110-00 (ASTM B 117)

UL 580-94¹

FM 4471-10²

UL 580-94¹

FM 4471-10²

TAS 125-03 (UL 580-94¹/1897-98³)

TAS 100-95

TAS 125-03 (UL 580-94¹/1897-98³)

TAS 100-95

TAS 100-95

TAS 125-03 (UL 580-94¹/1897-98³)

TAS 100-95

TAS 100-95

TAS 125-03 (UL 580-94¹/1897-98³)

TAS 100-95

TAS 100-95

TAS 125-03 (UL 580-94¹/1897-98³)

TAS 100-95

TAS 110-00 (ASTM G 155)

TAS 110-00 (ASTM B 117)

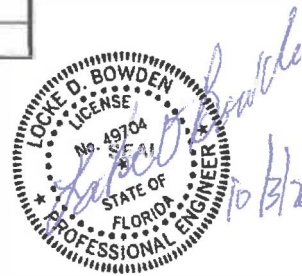
1. The UL 580-94 test standard is equivalent to the UL 982-06 test standard.

2. The FM 4471-10 test standard is equivalent to the FM 4471-92 test standard.

3. The UL 1897-98 test standard is equivalent to the UL 1897-15 test standard.

4. The TAS 100-95 test standard is equivalent to the TAS 100-2023 test standard.

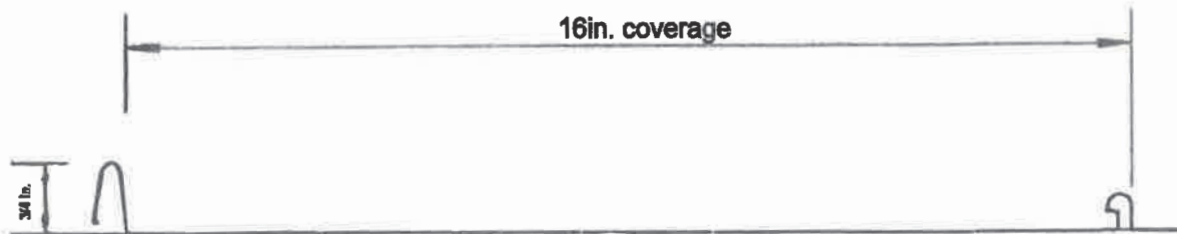
- Underlayment to be compliance with current Florida Building Code (i. see Chart 1507)
- Minimum slope to be compliant with Current Florida Building Code, and per with Manufacturer's installation reference.
- Products are compliant with State of Florida product approval per Rule 61G20-3. Compliance Method: 1-D
- Engineering analysis for "project specific approval by local authorities w/jurisdiction is allowed by other registered engineers.
- Fire classification is not part of this acceptance. Shear diaphragm values are outside this report.
- Support framing in compliance w/Current FBC, Chapter 22 Steel, Chapter 23 Wood and Chapter 16 Structural Loading.
- This report does not imply warranty, installation, recommended product use outside of this report



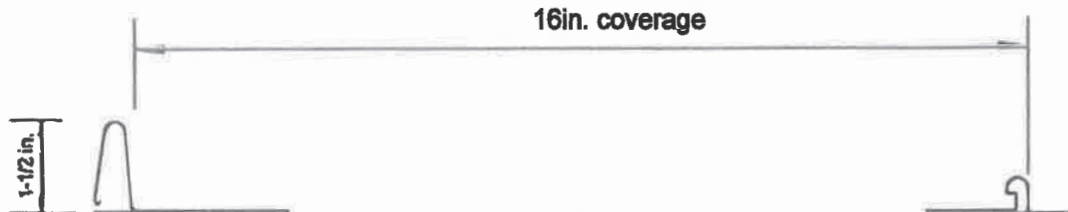
Panel Profiles-Non-HVHZ and HVHZ

*All fasteners to be Corrosion Resistant in compliance with Florida Building Code 2026 9th ed.

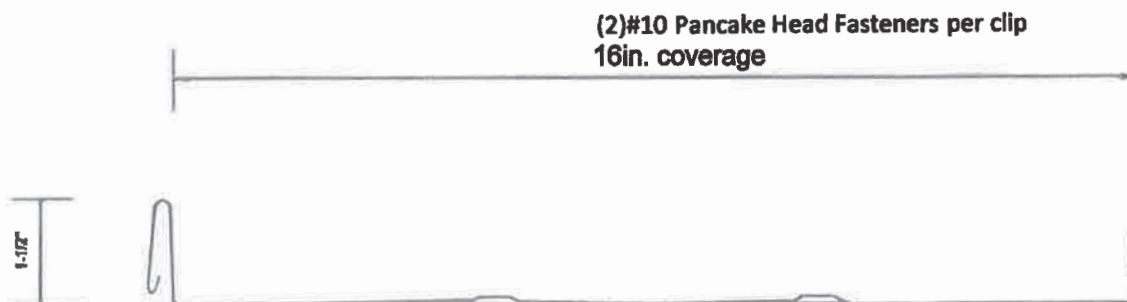
1.0 Nail Strip 24GA over 19/32" sealed plywood thru fastened- #10 Pancake Head Fasteners



1.5 Nail Strip 24GA over 15/32" plywood thru fastened-#10 Pancake Head Fasteners

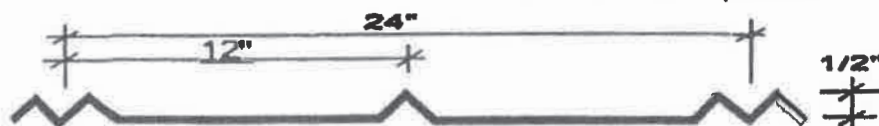


1.5 Snap Lock 24GA over 19/32" sealed plywood 1500SNS Clip 18GA



5 V Crimp 26GA over 19/32" sealed plywood

thru fastened- #9 Hex Head w/sealing washer thru in panel RIB or OPTION to fasten beside of raised ribs in panel FLAT



5 V Crimp min. 29GA over 15/32" plywood

thru fastened-#9-15 HWH w/sealing washer thru in panel

RIB or OPTIONAL fasten to side of rib in panel FLAT

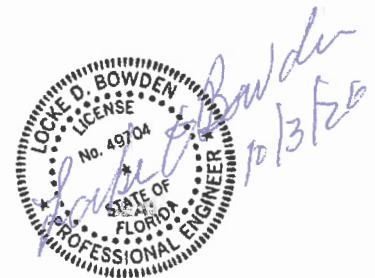
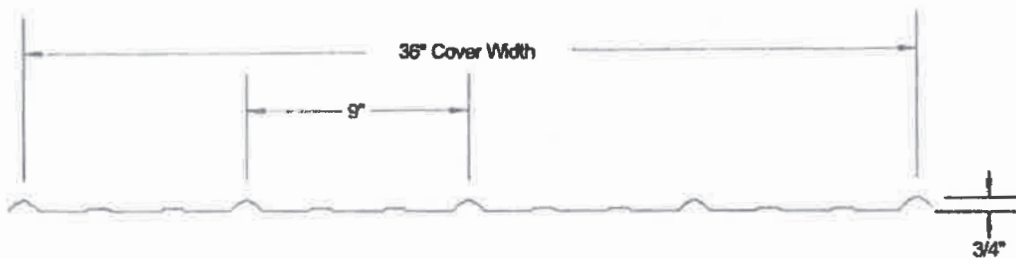


MAR-RIB min. 29GA

Use #9-15 HWH w/sealing washer for 15/32" plywood

For 19/32" sealed plywood or 2x4 wood lathing,

Use #10 HWH w/sealing washer Pancake Head



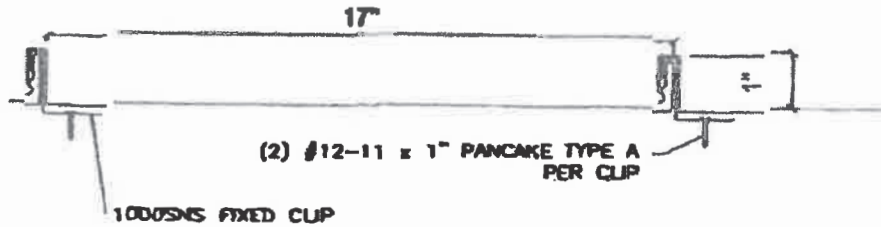
Panel Profiles-HVHZ

* All fasteners to be corrosion resistant and in accordance with Florida Building Code 2026 9th ed.

24GA -1.0 Snap Lock over 15/32" plywood-HVHZ

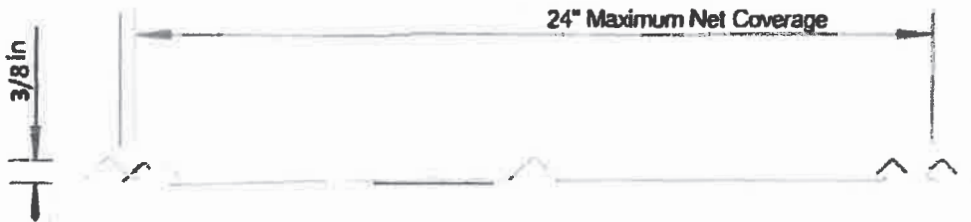
Clip: 1000SNS® Fixed 18GA

(2) #12-11 Pancake Head Type A Fasteners



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

#9-15 Woodzac® w/Zac head w/sealing washer thru fasten in panel rib or optional, fasten to sides of ribs in panel flat



PBR 26GA over 15/32" plywood

#14 x 7/8 lap tek @ 24" o.c.



#9-15 x 1/2" @ 12"-12"-12" pattern @ 24" o.c.

TYPE 1 FASTENER PATTERN

#14 x 7/8 lap tek @ 24" o.c.



#9-15 x 1/2" @ 7"-5"-7"-5"-7" pattern @ 24" o.c.

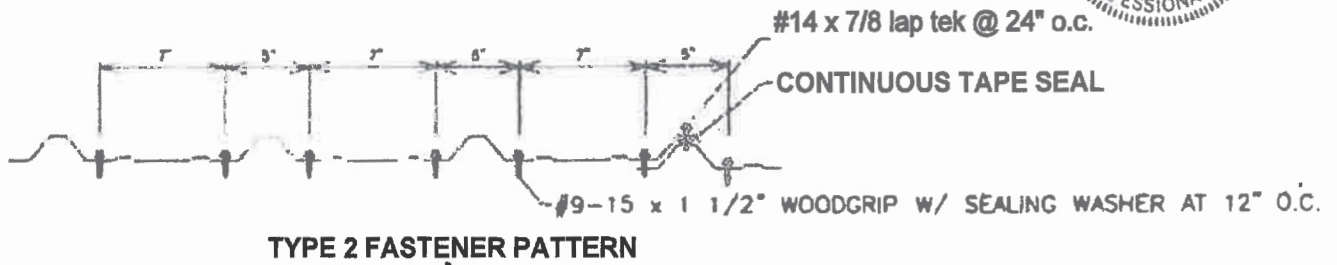
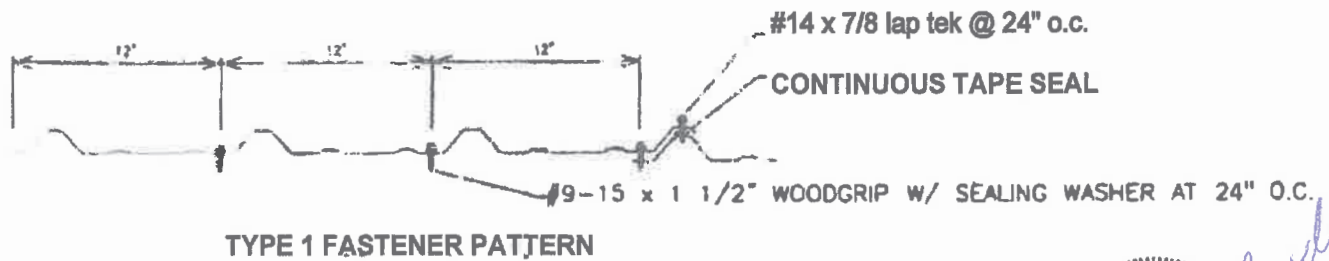
TYPE 2 FASTENER PATTERN



Panel Profiles-HVHZ

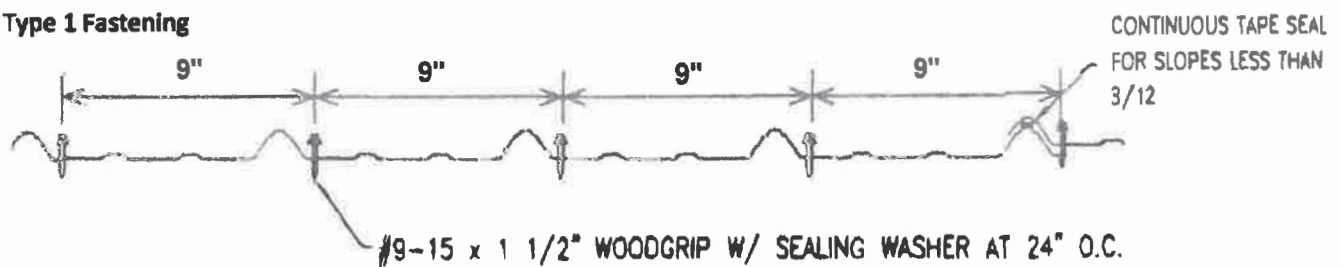
* All fasteners to be corrosion resistant and in accordance with Florida Building Code 2026 9th ed.

26GA PBR -HVHZ-over 1x4s over plywood

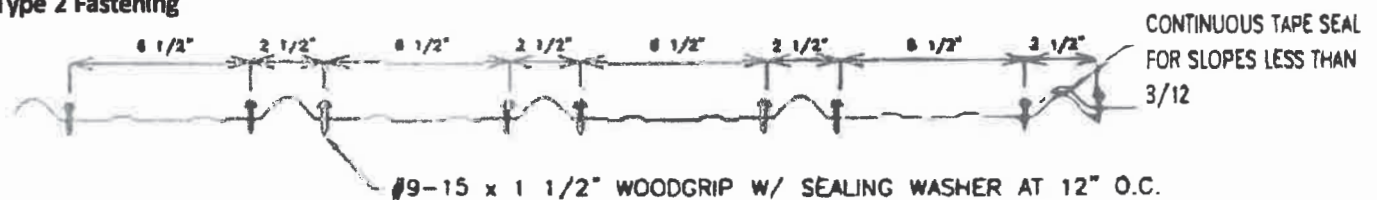


26GA Rib over 15/32" plywood-HVHZ

Type 1 Fastening



Type 2 Fastening



Panel Profiles-HVHZ

* All fasteners to be corrosion resistant and in accordance with Florida Building Code 2026 9th ed*

26GA Rib over 1x4 over plywood

