

Product Report

Manufacturer: Metal Building Supplies LLC

800 E. Donegan Ave.

Kissimmee, FL 32531

(407)935-9714

Florida Product Approval # 4525

Category: Metal Roofing

Compliant with current Florida Building Code ASCE 7-22

Compliant with Florida Product Approval Rule # 61G20-3

Compliant Quality Assurance Program: Keystone Certifications

****Design Pressures Margin of Safety 2:1**

FL 4525.1 Product: 1.0 Nailstrip 24GA Non Structural Application NON HVHZ

16" wide roof panel 50ksi 1/2" tall rib w/ slotted strip/snap lock Substrate: 15/32" APA plywood over max. 24" o.c. supports spacing, 1/2" Minimum penetration through plywood. Corrosion Resistant Compliant Fastener Panel Slot: (1) #10-13 x 1" GP Pancake Type A. Corrosion Resistant Compliant Fastener Pan of Panel: (2) #10-11 x 1" Eclipse Head Type A. Underlayment: Self-adhered roof underlayment min. 40 mil thickness. Minimum Slope shall comply with CURRENT FBC

Design Pressure**:	Fastener Spacing:
-59.75 PSF	Panel Slot @ 16" o.c.
-101.0 PSF	Panel Slot @ 6 1/2" o.c.
-153.5 PSF	Panel Slot @ 6 1/2" Panel Pan @ 12" o.c.

FL 4525.2 Product: 1.5" Snap Lock 24GA Standing Seam Non Structural Application HVHZ

16" wide roof panel 50ksi 1 1/2" tall rib Substrate: 15/32" APA plywood existing over max. 24" o.c. support spacing. **FOR HVHZ:** 19/32" APA plywood new construction over supports @ 24" o.c. 1/2" min. penetration through plywood. Corrosion Resistant Compliant Fastener (2) #12-11 x 1 Pancake Type A. Clips: 1500SNS, Fixed, 18GA, 3 1/2" long, Valspar Fluoropon Paint coating (optional) for metal panel. Installation per manufacturer's recommended details. Fire Barrier: 1/2" "Dens Deck" or approved equal. 2:12 min. slope shall comply w/ CURRENT, FBC. USE RAS 133 FOR HVHZ.

Design Pressure**:	Fastener Spacing:
-86.0 PSF	2 Fasteners per Clip @ 24" o.c.
-108.5 PSF	2 Fasteners per Clip @ 12" o.c.
-116.0 PSF	2 Fasteners per Clip @ 6" o.c.

FL 4525.3 Product: 3/4" Ultra Rib Panel 26GA over 15/32 APA Plywood Non Structural Application HVHZ

36" wide roof panel 80ksi 1/2" tall rib @ 9" o.c. thru fastened. Substrate: Min. 15/32" APA plywood existing construction over one layer of asphalt shingle (optional) over max. 24" o.c. supports spacing, 1/2" min. penetration through plywood. **FOR HVHZ:** 19/32" APA plywood new construction over supports @ 24" o.c. Corrosion Resistant Compliant Fastener #9-15 x 1 1/2" Woodgrip w/ sealing washer or approved equal. Valspar Fluoropon Paint coating (optional) for metal panel. Installation per manufacturer's recommended details. Fire Barrier: 1/2" "Dens Deck" or approved equal. 2:12 min. slope shall comply w/ CURRENT FBC. For slopes less than 3:12, lap sealant must be used in panel side laps. USE RAS 133 FOR HVHZ

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

FL 4525.4 Product: 3/4" Ultra Rib Panel 26GA over 1 x 4 Wood Purlins Non Structural Application HVHZ

36" wide roof panel 80ksi 1/2" tall rib @ 9" o.c. thru fastened. Substrate: Min. 1x4 No. 2 SYP wood purlins over min. 15/32" APA plywood over max. 24" o.c. supports spacing, 1x4 wood purlins fastened to plywood w/ 8DX2 1/2" Ring Shank nails at max. 4" o.c. Corrosion Resistant Compliant Fastener #9-15 x 1 1/2" Woodgrip w/ sealing washer or approved equal, 1/4" min. penetration through plywood. Valspar Fluoropon Paint coating (optional). Installation per manufacturer's recommended details. Fire Barrier: 1/2" "Dens Deck" or approved equal. 2:12 min. slope shall comply w/ CURRENT FBC. For slopes less than 3:12, lap sealant must be used in panel side laps. USE RAS 133 FOR HVHZ

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

FL 4525.5 Product: 26GA PBR Panels over Purlins Non Structural Application HVHZ

36" wide roof panel 80ksi 1 1/2" tall rib @ 12" o.c. thru fastened. Substrate: Min. 1x4 No. 2 SYP over 15/32" plywood existing construction over 24" o.c. supports spacing, 1x4 wood purlins fastened to plywood w/ 8DX2 1/2" Ring Shank nails at max. 4" o.c., min. 1/2" penetration through plywood. USE RAS 133 FOR HVHZ **FOR HVHZ:** 19/32" APA Plywood New Construction. Corrosion Resistant Compliant Fastener #9-15 x 1-1/2" Woodgrip w/ sealing washer, or approved equal, 1/4" x 14 x 7/8" lap screw w/ sealing washer @ 24" o.c. in panel side lap. Valspar Fluoropon paint coating (optional). Installation per manufacturer's recommended details. Fire Barrier: 1/2" "Dens Deck" or approved equal. 2:12 min. slope shall comply w/ CURRENT FBC. For slopes less than 3:12, lap sealant must be used in panel side laps.

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

36" wide roof panel 80ksi 1 X" tall rib @12" o.c. thru fastened. Substrate: Min. 15/32" APA plywood existing construction over one layer of asphalt shingle (optional) over 24" o.c. supports spacing, X" min. penetration through plywood. **FOR HVHZ 15/32" APA plywood new construction. Corrosion Resistant Compliant Fastener #9-15 x 1-1/2" Woodgrip w/ sealing washer, or approved equal, X-14 x 7/8" lap screw w/ sealing washer @ 24" o.c. in panel side lap. Valspar Fluoropon paint coating (optional for metal panel) Installation per manufacturer's recommended details. Fire Barrier: X" "Dens Deck" or approved equal. 2:12 min. slope shall comply w/ CURRENT FBC. For slopes less than 3:12, lap sealant must be used in panel side laps. USE RAS 133 FOR HVHZ**

Design Pressure **:	Fastener Spacing:
-60.5 PSF	9" X 9" X 9" X 9" @ 24" o.c.
-154.7 PSF	6.5"x2.5"x6.5"x2.5"x6.5"x2.5"x6.5"x2.5"@12"o.c.

36" wide roof panel 80ksi X" rib thru fastened. , X" min. penetration through plywood. Corrosion Resistant Compliant Fastener #9-15 x 1-1/2" HWH Woodgrip w/ sealing washing or approved equal. Min. Slope shall comply with CURRENT FBC . For slopes less than 3:12, sealant must be used in side laps. Substrate: Min. 15/32" APA Plywood over 24" o.c. supports spacing

Design Pressure **:	Fastener Spacing:
-84.25 PSF	9" X 9" X 9" X 9" @ 24" o.c.
-146.0 PSF	6.5"x2.5"x6.5"x2.5"x6.5"x2.5"x6.5"x2.5"@12"o.c.

36" wide roof panel 80 ksi X" rib thru fastened 1x4 SYP Wood Purlins over one layer of asphalt shingles (optional) over min. 7/16" OSB or min. 15/32" APA Plywood over supports 24" o.c. max. spacing. Corrosion Resistant Compliant Fastener #10-16 x 1.5" HWH wood screw w/ sealing washer. Additional fastening for Rib w/ 1x4s: Decking to be attached w/ 8D X 2-1/2" nails spaced 6" o.c. along perimeter and 12" o.c. at intermediate supports. Min. Slope shall comply with CURRENT FBC .

Design Pressure **:	Fastener Spacing:
-45.0	@ 24" o.c.
-175.5	@ 12" o.c.

Reference Data:

FORCE ENGINEERING & TESTING (TST-5328)	#72-0314T-06	UL 580-94/1897-98* (2006*/2004*)
FARABAUGH ENGINEERING & TESTING (TST-1654)	#7158-07	TAS 100-95
FORCE ENGINEERING & TESTING (TST-5328)	#72-0106T-07	TAS 125-03, UL 580-94/1897-98* (2006*/2004*)
FARABAUGH ENGINEERING & TESTING (TST-1654)	#107-07	TAS 100-95
PRI CONSTRUCTION MATERIAL TECHNOLOGIES (TST-5878)	#VLS-006-02-01/ VLS-005-02-01	TAS 110-00 (ASTM G 155/ ASTM B 117)
FORCE ENGINEERING & TESTING (TST-5328)	#84-0239T-06 A-C	TAS 125-03, UL 580-94/1897-98* (2006*/2004*)
FARABAUGH ENGINEERING & TESTING (TST-1654)	#7126-07	TAS 100-95
FARABAUGH ENGINEERING & TESTING (TST-1654)	#7270-08	TAS 100-95
FORCE ENGINEERING & TESTING (TST-5328)	#84-0239T-06 D-F	TAS 125-03, UL 580-94/1897-98* (2006*/2004*)
FARABAUGH ENGINEERING & TESTING (TST-1654)	#7128-07	TAS 100-95
FORCE ENGINEERING & TESTING (TST-5328)	#7272-08	TAS 100-95
FARABAUGH ENGINEERING & TESTING (TST-1654)	#84-0239T-06 J-L	TAS 125-03, UL 580-94/1897-98* (2006*/2004*)
FORCE ENGINEERING & TESTING (TST-5328)	#7129-07	TAS 100-95
FARABAUGH ENGINEERING & TESTING (TST-1654)	#7273-08	TAS 100-95
FORCE ENGINEERING & TESTING (TST-5328)	#84-0239T-06 G-I	TAS 125-03, UL 580-94/1897-98* (2006*/2004*)
FARABAUGH ENGINEERING & TESTING (TST-1654)	#7132-07	TAS 100-95
FORCE ENGINEERING & TESTING (TST-5328)	#7271-08	TAS 100-95
FARABAUGH ENGINEERING & TESTING (TST-1654)	#84-0239T-06 M & N	UL 580-94/1897-98* (2006*/2004*)
FORCE ENGINEERING & TESTING (TST-5328)	#84-0237T-09 C	FM 4471-95*
PRI CONSTRUCTION MATERIAL TECHNOLOGIES	#FAE-019-02-01	UL 580-06/UL 1897-04*

EQUIVALENCY: UL 580-94* IS EQUIVALENT TO UL 580-06 TEST STANDARD.

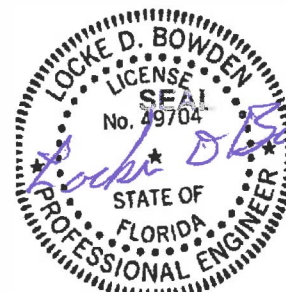
UL 1897-04* IS EQUIVALENT TO UL 1897-15 TEST STANDARD.

FM 4471-95 IS EQUIVALENT TO FM 4471-1992 TEST STANDARD.

Certificate of Indendence: TAS 100-95 IS EQUIVALENT TO TAS 100-23 ***

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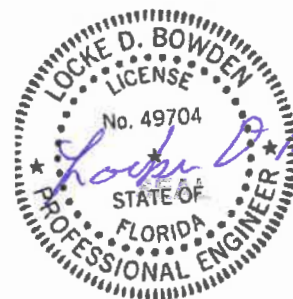
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**METAL BUILDING SUPPLIES
LIMITATIONS AND INSTALLATION DETAILS
METAL ROOFING**

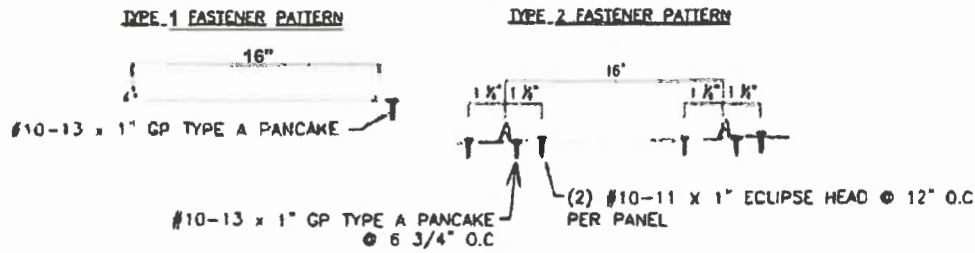
Limitations:

1. Underlayments to be in compliance with current Florida Building Code (FBC). Chapter 1507 chart 1507.1.1
2. Minimum slope to be compliant with Florida Building Code and per with manufacturers installation reference.
3. Products are compliant for State of Florida product approval per Rule 61G20-3.
4. Compliance Method: 1-D
5. Engineering analysis for "project specific approval by local authorities with jurisdiction is allowed by other registered engineers.
6. Fire classification is not part of this acceptance.
7. Shear diaphragm values are outside this report.
8. Support framing in compliance w/CURRENT FBC, Chapter 22 for Steel, Chapter 23 for Wood and Chapter 16 for Structural Loading.
9. This report does not imply warranty, installation, recommended product use outside of this report.

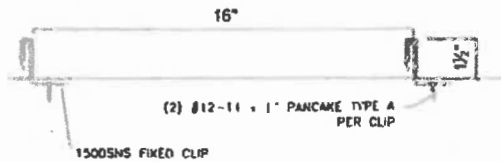


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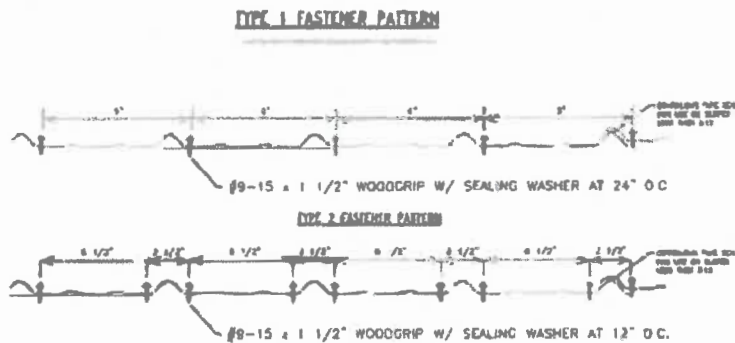
1.0 Nail Strip-Non-HVHZ



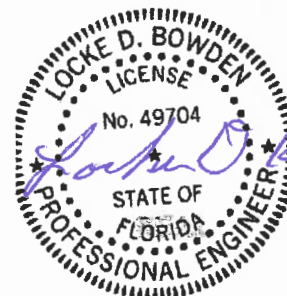
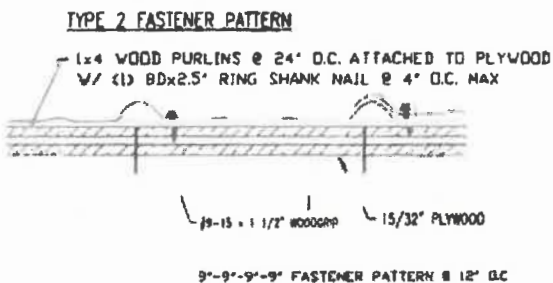
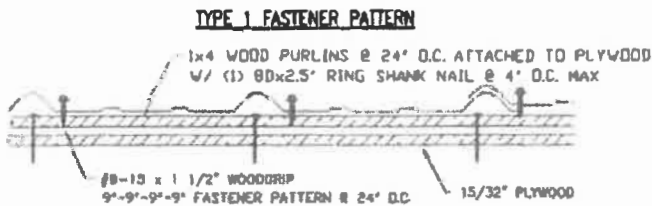
1.5 Snap Lock-HVHZ



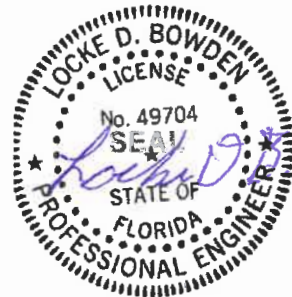
26GA Ultra Rib-HVHZ



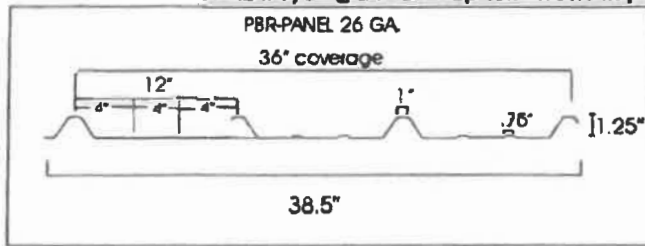
26GA Ultra Rib over 1x4 SYP wood purlins-HVHZ



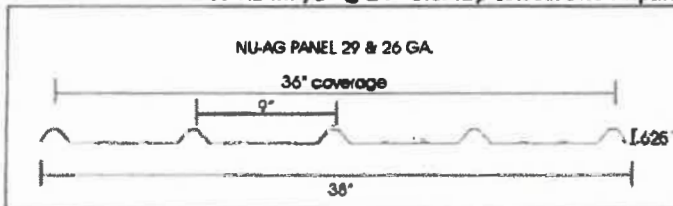
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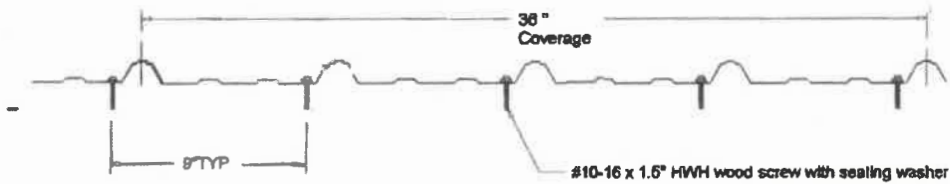
26 GA PBR-HVHZ Type 1 fastening 12"-12"-12" @24" o.c.
 Type 2 fastening 7"-5"-7"-5"-7"-5" @ 12" o.c.
 1/2"x14x7/8" @24" o.c. lap tek screws in panel laps



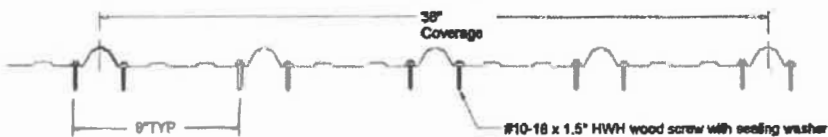
29 GA Ultra Rib-HVHZ Type 1 fastening 9"-9"-9"-9" @24" o.c.
 Type 2 fastening 6- 1/2"-2-1/2"- 6- 1/2"-2-1/2"- 6- 1/2"-2-1/2"- 6- 1/2"-2-1/2" @12" o.c.
 1/2"x14x7/8" @24" o.c. lap tek screws in panel laps



29 GA Ultra Rib over SYP 1x4's-Non-HVHZ*



Fastening pattern for specimen #1 (24" o.c. battens)



Fastening pattern for specimen #2 (12" o.c. battens)

*Drawing provided by PRI Construction Materials Technologies