

Product Report

Manufacturer: All Metal Acquisitions, LLC

40 SOUTH BROAD STREET**COWART, AL. 36321****(334) 699-6385****Florida Product Approval 18579****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: PRI CONSTRUCTION MATERIALS TECHNOLOGIES LLC -Active

* Underlaymentsto be compliant w/FBC 2023-8TH ed. Chart 1507.

FL 18579.1**1 3/4" Snap Lock 24GA over 15/32" APA Plywood****NON-HVHZ**

24GA Steel 13 7/8" Width 50ksi Non-Structural NON-HVHZ over 15/32" APA Plywood w/joints sealed w/min. 4" approved peel and stick waterproofing Supports at max 24"o.c. spacing Rib Ht. 1-3/4" Corrosion resistant fasteners (2) #10-12 Pancake Type A with 1/4" min penetration thru plywood CLIPS: DMP 1-3/4 Fixed OPTION TO APPLY SYP 1X4'S OVER PLYWOOD

Design Pressure	Spacing
-108.5 psi	24"o.c.
-123.5 psi	6"o.c.

FL 18579.2**1-3/4" Snap Lock 26GA over 15/32" APA Plywood****NON-HVHZ**

26GA Steel 13 7/8" Width 50ksi Non-Structural NON-HVHZ over 15/32" APA Plywood w/joints sealed w/min. 4" approved peel and stick waterproofing Supports at max 24"o.c. spacing Rib Ht. 1-3/4" Corrosion resistant fasteners (2 per clip) #10-12 x 1" Pancake Type A with 3/16" min penetration thru plywood CLIPS: 26GA SS slinding clip, two piece assembly - top: 1 3/4" long - base: 3 3/8" long - OPTION TO APPLY SYP 1X4'S OVER PLYWOOD

Design Pressure	Spacing
-63.5 psi	24"o.c.
-78.5 psi	6"o.c.

FL 1.8579.3**1.5" Mechanical Lock 24GA 0.024 over 22GA Steel Decking****NON-HVHZ**

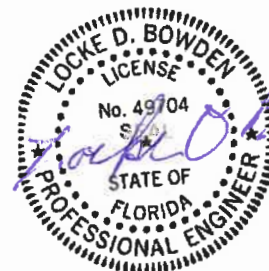
24GA 16" Width 50ksi Non-Structural NON-HVHZ over 22GA 33ksi Steel Decking Supports at ax 24"o.c. spacing Rib Ht. 1-1/2" Corrosion resistant fasteners (2 per ss clip) #10-16 x 1" Pancake self driller two piece slider top: 26 GA ss 1-1/4" 3-3/8" long base: 24GA ss 3-3/8" long. Forming 180 degrees seam, double lock mechanical seamer 3/4" penetration thru steel deck

Design Pressure	Spacing
-52.5 psi	24"o.c.
-123.5 psi	6"o.c.

FL 18579.4**1.5 Mechanical Lock Aluminum 0.032 over 15/32" APA Plywood****NON-HVHZ**

0.032 Aluminum 16" Width 50ksi Non-Structural NON-HVHZ over 15/32" APA Plywood w/joints sealed w/ min. 4" approved peel and stick waterproofing Supports at max 24"o.c. spacing Rib Ht. 1-1/2" Corrosion resistant (2 per SS clip) #10-12 Pancake Type A forming 180 degree seam double lock seam 1/4" penetration thru plywood OPTION TO APPLY SYP 1X4'S OVER PLYWOOD

Design Pressure	Spacing
-78.8 psi	12"o.c.
-89.3 psi	6"o.c.
12" panels over wood only	
-119.3 psi	12"o.c.



FL 18579.5 1.5 Mechanical Lock Aluminum 0.032 over 22GA Steel Decking NON-HVHZ

0.032 Aluminum 16" Width 50ksi Non-Structural NON-HVHZ over 22GA 33ksi Steel Decking Supports at 12"o.c. spacing Rib Ht. 1-1/2" Corrosion resistant fasteners (2 per ss clip) #10-16 x 1" Pancake self driller two piece slider top: 26 GA ss 1-3/4" long base: 24GA ss 3-3/8" long. Forming 180 degrees seam, double lock mechanical seamer 3/4" penetration thru steel deck

Design Pressure	Spacing
-76.8 psi	12"o.c.
-79.3 psi	6"o.c.

FL 18579.6 5V Crimp 26GA over 15/32" APA Plywood over existing construction HVHZ

26GA 0.018 min.24" Width 50ksi Non-Structural FOR HVHZ-ADDITIONAL- over 15/32" APA Plywood over existing construction attach decking w/no less than 8D annual ring shank nails at 6"o.c. FOR HVHZ- over 19/32" APA Plywood new construction joints sealed w/min. 4" peel and stick waterproofing Rib Ht. 3/8" thru fastened Corrosion resistant fasteners #9-15 x 1-1/2" WoodZac w/Zac Head sealing washer or approved equal thru panel rib 1/4" min penetration

Design Pressure	Spacing
-108.5 psi	12"o.c.
-156.5 psi	6"o.c.

FL 18579.7 7/8" Nailstrip 24GA over 15/32" APA Plywood NON-HVHZ

24GA 16" Width 50ksi Non-Structural NON-HVHZ over 15/32" APA Plywood Supports at 24"o.c, spacing joints sealed w/min. 4" peel and stick waterproofing Female Rib Ht. 7/8" Snap Lock Rib / Male Rib Ht. 3/4" w/slot strip 5-3/16"o.c. Corrosion resistant fastener(1) #10-9 x 1" Concealer Ultra Low Profile type A 3/16" min penetration thru Plywood

Design Pressure	Spacing
-56.0 psi	15-9/16"o.c.
-108.5 psi	5-3/16"o.c.

FL 18579.8 PBR 26GA over 15/32" APA Plywood NON-HVHZ

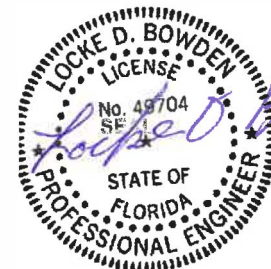
26GA Steel 36" Width 80ksi Non-Structural NON-HVHZ over 15/32" APA Plywood w/joints sealed w/min. 4" approved peel and stick waterproofing Supports at max 24"o.c. spacing Rib Ht. 1-1/4" Corrosion resistant fasteners (2) #9-15 X 1-1/2" HWH Woodgrip w/sealing @ 20" o.c at panel side lap or approved equals. 1/4"min penetration thru plywood. Slopes less than 3:12 lap sealant must be used in the panel side laps.

Design Pressure	Spacing	Pattern
-59.25 psi	24"o.c.	12"-12"-12"
-154.75 psi	12"o.c.	7"-5"-7"-5"-7"

FL 18579.9 TUFF RIB 29GA over 15/32" APA Plywood NON-HVHZ

29GA Steel 36" Width 80ksi Non-Structural NON-HVHZ over 15/32" APA Plywood w/joints sealed w/min. 4" approved peel and stick waterproofing Supports at max 24"o.c. spacing Rib Ht. 3/4" Corrosion resistant fasteners #10-15 X 1-1/2" HWH Woodgrip w/sealing washer or approved equal 1/4" min penetration thru plywood for slopes less than 3:12 lap sealant must be used in the panel side laps.

Design Pressure	Spacing	Pattern
-78.5 psf	24"o.c.	9"-9"-9"-9"
-108.5 psf	24"o.c.	6"-3"-6"-3"-6"-3"-6"



FL 18579.10

TUFF RIB 29GA over 1x4 wood purlins over 15/32" APA Plywood

NON-HVHZ

29GA Steel 36" Width 80ksi Non-Structural NON-HVHZ over 1x4 #2 SYP Wood Purlins over 15/32" APA Plywood over supports at max 24"o.c. spacing. Purlins thru fastened to plywood into each wood rafter w/ (2) 8x3" deck screws min. 1-5/8" penetration w/joints sealed w/min. 4" approved peel and stick waterproofing Rib Ht. 3/4" Corrosion resistant fasteners (2) #10-15 X 1-1/2" HWH Woodgrip w/sealing washer 1/4" min. penetration thru plywood. for slopes less than 3:12 lap sealant must be used in the panel side laps.

Design Pressure	Spacing
-108.5 psf	24"o.c.
183.5 psf	24"o.c.

— pattern 9"-9"-9"-9"

— pattern 6"-3"-6"-3"-6"-3"-6"

FL 18579.11

TUFF RIB 26GA over 15/32" APA Plywood

NON-HVHZ

26GA Steel 36" Width 80ksi Non-Structural NON-HVHZ over 15/32" APA Plywood w/joints sealed w/min. 4" approved peel and stick waterproofing Supports at max 24"o.c. spacing Rib Ht. 3/4" Corrosion resistant fasteners (2) #9-15 X 1-1/2" HWH Woodgrip w/sealing washer or approved equal for slopes less than 3:12 lap sealant must be used in the panel side laps.

Design Pressure	Spacing
-69.25 psf	24"o.c.
-146.00 psf	12"o.c.

—Type A pattern 9"-9"-9"-9"

—Type B Pattern 6.5"-2.5"-6.5"-2.5"-6.5"-2.5"-6.5"

FL 18579.12

TUFF RIB over 15/32" APA Plywood

NON-HVHZ

29GA Steel 36" Width 80ksi Non-Structural NON-HVHZ over 15/32" APA Plywood w/joints sealed w/min. 4" approved peel and stick waterproofing Supports at max 24"o.c. spacing Rib Ht. 3/4" Corrosion resistant fasteners #9-15 X 1-1/2" HWH Woodgrip w/sealing washer or approved equal for slopes less than 3:12 lap sealant must be used in the panel side laps.

Design Pressure	Spacing
-71.75 psf	24"o.c.
-146.00 psf	12"o.c.

— Type A

— Type B

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 manufacturing or distributing products under this report.

*Design Pressures includes safety factor=2.0

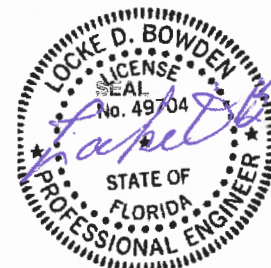
Test Reference Entity	Report#	Standard Year
Force Engineering & Testing (TST-5328)	#383-0075T-10	FM 4471-95 (FM 4471-1992)
Force Engineering & Testing (TST-5328)	#383-0032T-10A, B	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#383-0075T-10D, F	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#383-0076T-10A, B	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#383-0076T-10E	FM 4471-95 (FM 4471-1992)
Force Engineering & Testing (TST-5328)	#383-0076T-10C & D	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#383-0076T-10E	FM 4471-95 (FM 4471-1992)
Force Engineering & Testing (TST-5328)	#383-0032T-10D	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#383-0031T-10	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#115-0103T-05A-C	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#115-0103T-05D, E	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#115-0410T-07A, B	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#115-0351T-06A	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#115-0217T-08B	UL 580-94/1897-98 ² (2006/2012 ²)
Force Engineering & Testing (TST-5328)	#116-0172T-07A-C	UL 680-94/1897-98 ² (2006/2012 ²)

1. The UL580-94 test standards are equivalent to the UL580-06 test standards
2. The UL1897-98, 04 test standards are equivalent to the UL1897-15 test standards
3. The FM4471-95 and 4471-10 test standards are equivalent to the FM4471-92

4. LIMITATIONS:

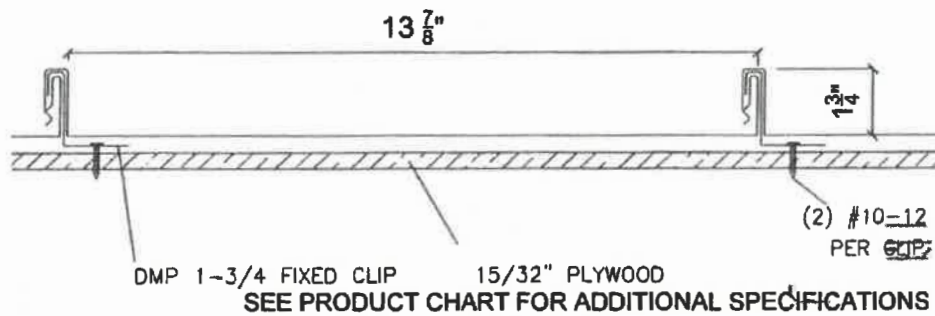
1. Under-layment to be compliant with current Florida Building Code
2. Minimum slope to be compliant with the current Florida Building Code and in accordance with Manufacturer's details
3. Products are compliant for State of Florida product approval per rule 61G20-3
4. Fire classification is not part of this acceptance. Shear diaphragm values are outside of this report.
5. Support framing in compliance with current Florida Building Code Chapters: 22-Steel, 23-Wood, 16-Structural Loading
6. This report does not imply warranty, installation, recommended product outside of this report.

Compliance Statement: These products herein evaluated by Locke Bowden, P.E. have demonstrated compliance with the current Florida Building Code with referenced documents submitted.

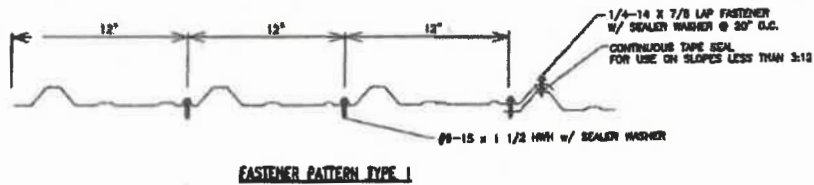


ALL METAL ACQUISITIONS DETAILS

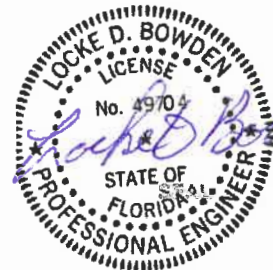
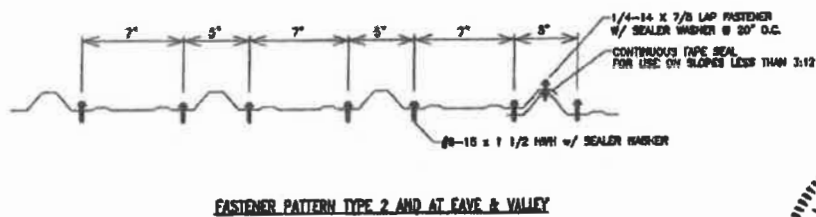
1-3/4" SNAP LOCK 24 GA. 13-7/8" WIDE
OVER $\frac{15}{32}$ " PLYWOOD



26GA PBR PANEL 36" OVER 15/32" PLYWOOD

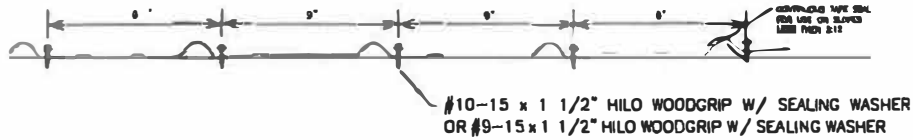


Install Details provided by Force Engineering and Testing

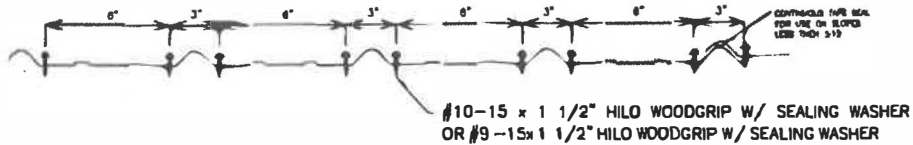


MIN. 29 GA. TUFF RIB PANEL OVER MIN. 15/32" PLYWOOD

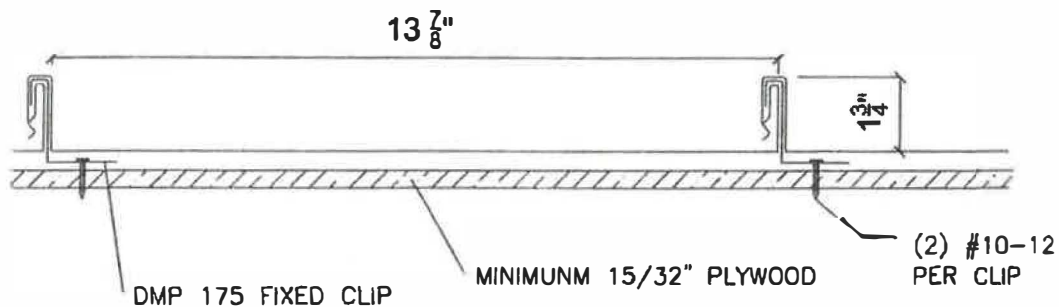
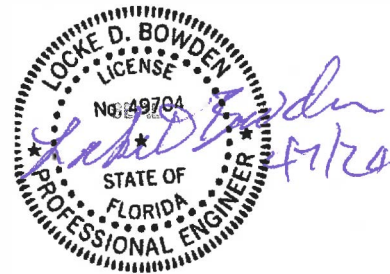
TYPE 1 FASTENER PATTERN AT 24" O.C.



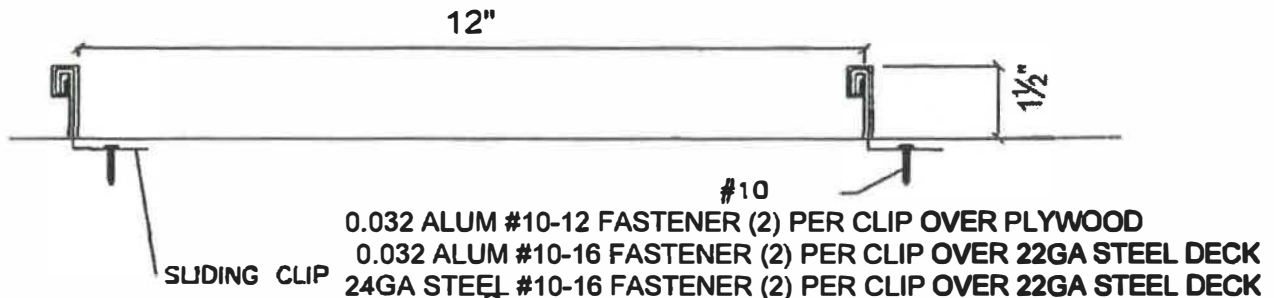
TYPE 2 FASTENER PATTERN AT 24" O.C.



1-3/4" SNAP LOCK 26 GA. 13 7/8" WIDE OVER MINIMUM 15/32" PLYWOOD

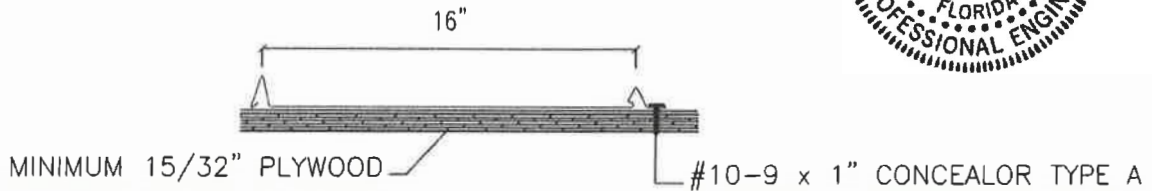
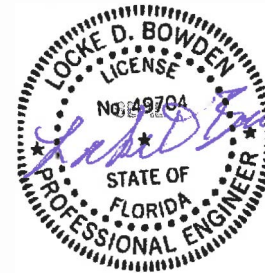


0.032 ALUM OR 24GA STEEL SSR 1.5 RIB MECHANICAL LOCK 12" OR 16" WIDTH AVAILABLE OVER PLY WOOD // 16" WIDTH OVER 22GA STEEL DECK



$\frac{7}{8}$ " NAILSTRIP 24 GA. 16" WIDE OVER MINIMUM $\frac{15}{32}$ " PLYWOOD

main field fastening 15- 9/16"
perimeter and corner 5-3/16"



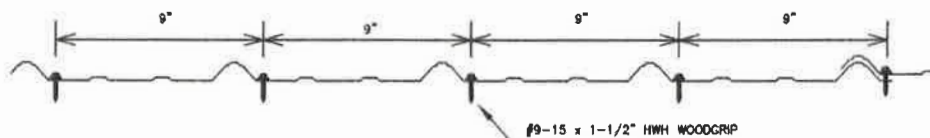
5 V CRIMP 26GA METAL ROOFING

fastener spacing: 12" o.c. main field
6" o.c. perimeter

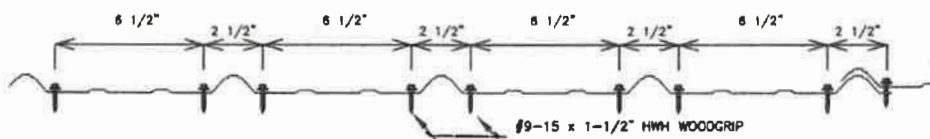


26GA RIB

FASTENER PATTERN TYPE A. AT 24" O.C.



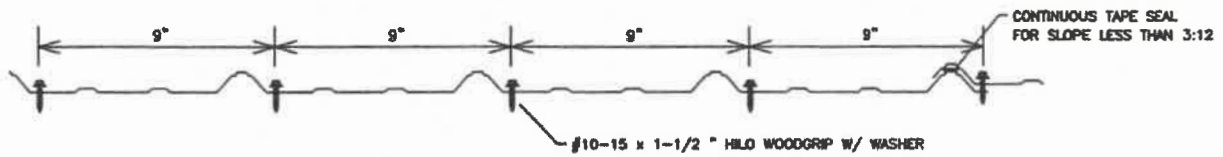
FASTENER PATTERN TYPE B. AT 12" O.C.



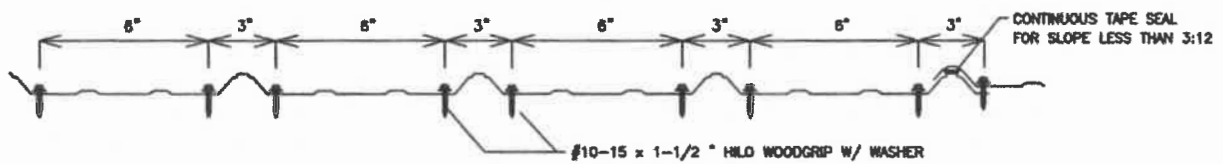
Install Details provided by Force Engineering and Testing

TUFF RIB 29GA OVER 1X4 PURLINS OVER 15/32" PLYWOOD

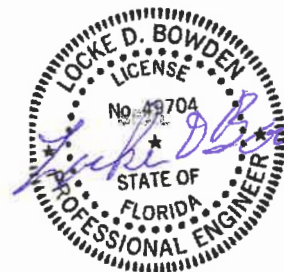
FASTENER PATTERN TYPE 1



FASTENER PATTERN TYPE 2 & PANEL ENDS/LAPS



Install Details provided by Force Engineering and Testing



Locke D. Bowden
2/7/24