

Compliant with CURRENT Florida Building Code 2023 8TH ed. Compliant

with Florida Product Approval Rule # 61G20-3

Compliant Quality Assurance Program: PRI Construction Materials Technologies

FL 31282.1 Product: Min. 26GA PBR Panel Over 15/32" APA Plywood for NON-HVHZ 19/32" Plywood for HVHZ NON-HVHZ HVHZ

36" wide 80ksi 1-1/4" tall rib @ 12" o.c. thru fastened**Substrate: Over one layer of shingle (optional) over 15/32" APA plywood over supports 24" max o.c. -For HVHZ 19/32" plywood. For reroofing if less than 19/32" plywood,****apply 15/32" using 8D X 2 -1/2" ring shank nails @ max of 6" O.C. to plywood w/ 1/4" penetration thru plywood over the roof supports 24" max o.c. Corrosion Resistant****Fastener #9-15 HWH Woodgrip w/sealing washer or approved equal 1/4"-14 x 7/8" Lap****Screw w/sealing washer @ 24" o.c. on side panel laps****Min. slope shall comply w/ FBC 2023 8th ed. For slopes less than 3:12, sealant must be used in panel side laps.****Insulation: manufacturer's approved product (optional)****Install per manufacturer's details and in compliance with FBC 2023 8th ed.**

Install Details: Table A Allowable Loads

METHOD 1

METHOD 2

Design margin of safety 2:1

DESIGN PRESSURE*

- 60.5 PSF

- 154.75 PSF

FASTENER PATTERN

12"-12"-12"

7'-5"-7'-5"-7'-5"

FASTENER SPACING

@24" O.C

@12" O.C.

Reference Data: Baker Metal Works Authorizes use of Test Reports

Force Engineering & Testing-TAS 125 Report No. 234-0063T-07G-I UL 580-06 UL 1897-12 Equivalent 1897-15

Farabaugh Engineering and Testing-TAS 100 Report No. T271-08 Equivalent TAS-100-2023

Farabaugh Engineering and Testing-TAS100 Report No. T132-07

Limitations:

1. Under-layment to be compliance with Current Florida Building Code (FBC) 2023 8th ed. See Chart 1507
2. Minimum slope to be compliant with Current 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. Support framing in compliance w/FBC 2023 8th ed., Chapter 22 Steel, Chapter 23 Wood and Chapter 16 Structural Loading.
6. Support framing in compliance w/FBC 2023 8th ed., Chapter 22 for steel, Chapter 23 for wood, Chapter 16 for structural Loading
7. This report does not imply warranty, installation, recommended product use outside of this report

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, or distributing products under this report.

PBR 26GA over 15/32" APA Plywood (NON-HVHZ) 19/32" APA Plywood (HVHZ)

ALPHA METAL PANELS INSTALL DETAIL

TYPE 1 FASTENER PATTERN

#14 - 7/8" LAP @ 24" o.c.

26GA PBR PANEL OVER 15/32" PLYWOOD

#9-15 X 1 1/2 @ 12"-12"-12" PATTERN @ 24 o.c.

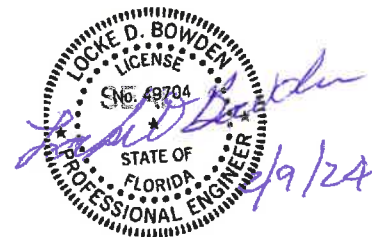
For HVHZ wind zone; use RAS 133
install instruction in FBC Building
Code 2023 8th ed.

TYPE 2 FASTENER PATTERN

#14 - 7/8" LAP @ 24" o.c.

#9-15 X 1 1/2 @ 7"-5"-7"-5"-7" PATTERN @ 12 o.c.

Corrosion Resistant Fasteners #9-15 HWH WOODGRIP w/sealing washer or approved equal 1/4"-14 x 7/8" lap screw w/sealing washer @ 24" o.c. on side panel laps 1/4" min. penetration thru plywood for slopes less than 3:12 sealant must be used in panel side laps (USE RAS 133 FOR HVHZ)



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36" WIDE 80KSI 3/4" TALL RIB @9" o.c. Thru fastened 15/32" APA Plywood fastened - for No n-HVHZ, use 19/32" for HVHZ APA plywood or wood plank. In re-roofing where the deck is less than 19/32" apply (min. 15/32" over existing). The attachment to decking shall be 8Dx2-1/2" ring shank nails @ 6" o.c. spacing. For non-HVHZ USE MIN 15/32" APA plywood @24" o.c. over roof supports 24" o.c. max. Corrosion resistant fasteners: #9-15 Woodgrip w/sealing washer or equal rated, thru panel rib, 3/4" min penetration thru plywood. install per manufacturer's details in compliance with FBC 2017, Slope MIN. to be compliant with current Florida Building Code.

**Install Details: Table A
DESIGN PRESSURE*
FASTENER PATTERN
FASTENER SPACING**

Allowable Loads

METHOD 1	METHOD 2
-71.75psf	-159.25psf
9"-9"-9"-9"	6.5-2.5-6.5-2.5
@24"O.C.	@12"O.C.

Reference Data: Baker Metal Works Authorizes use of Test Reports

The UL 1897-04 is equivalent TO UL 1897-12

FORCE ENGINEERING AND TESTING TAS 125 #234-0063T-A-C UL 580-06 UL 1897-12

FARABAUGH ENGINEERING AND TEST LAB-TAS 100-95 T126-07 T270-08

Equivalent 1897-15

Equivalent TAS-100-2023

1. Under-layment to be compliance with Current Florida Building Code (FBC)2023 8th ed. see Chart 1507
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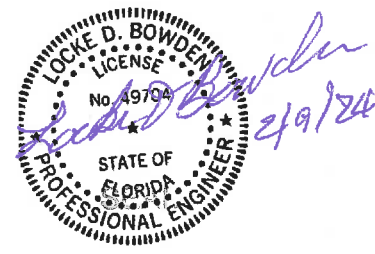
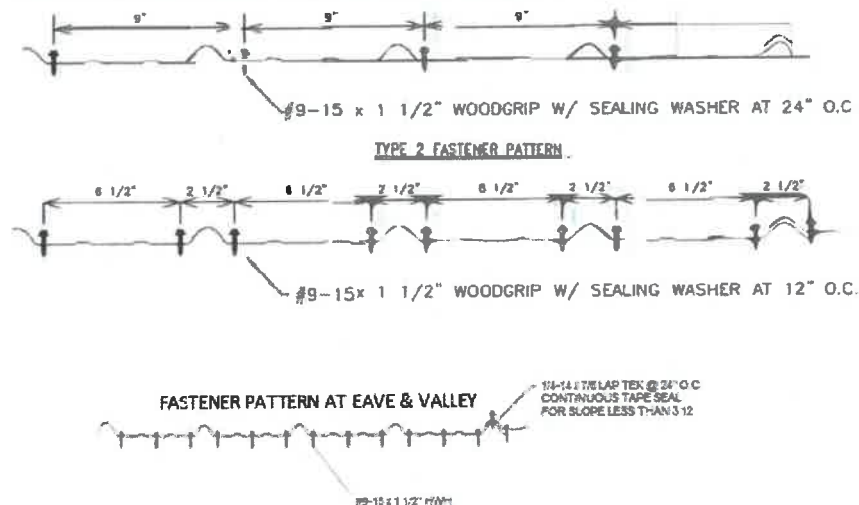
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ALPHA METAL PANELS - INSTALL DETAILS - 26GA RIB PANEL OVER 15/32" PLYWOOD(NON-HVHZ) OVER 19/32" PLYWOOD(HVHZ)

Rib min. 26GA-HVHZ over 15/32"(Non HVHZ) 19/32"(HVHZ)



***For reroofing, if less than 19/32" plywood apply 15/32" plywood over existing**

Corrosion resistant: #9-15 Woodgrip® w/sealing washer or approved equal.

¾" min penetration through plywood. Fire Barrier: ¾" Dens Deck or approved equal. For slopes less than 3:12, sealant must be used in side laps RAS 133

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36" wide 80 ksi 3/4" tall rib @ 9" o.c. thru fastened

Substrate: Over one layer of shingle {optional} over 15/32" APA plywood over supports 24" max o.c.

Corrosion Resistant Fastener #9-15 HWH WOODGRIP w/sealing washer or approved equal thru panel flat, 1/4" min penetration thru plywood. Min. slope shall comply w/FBC 2023 8th ed. For slopes less than 3:12 sealant must be used in panel side laps

Insulation: manufacturer's approved product {optional}

Install per manufacturer's details and in compliance with FBC 2023 8th ed.

Install Details : Table A Allowable Loads

DESIGN PRESSURE***

FASTENER PATTERN

FASTENER SPACING

METHOD 1

-71.0 PSF

9"-9"-9"

@ 24" O.C.

METHOD 2

-108.0 PSF

6.5"-2.5"-6.5"-2.5"-6.5"-2.5"-6.5"-2.5"

@ 24" O.C.

Reference Data: Baker Metal Works Authorizes use of Test Reports

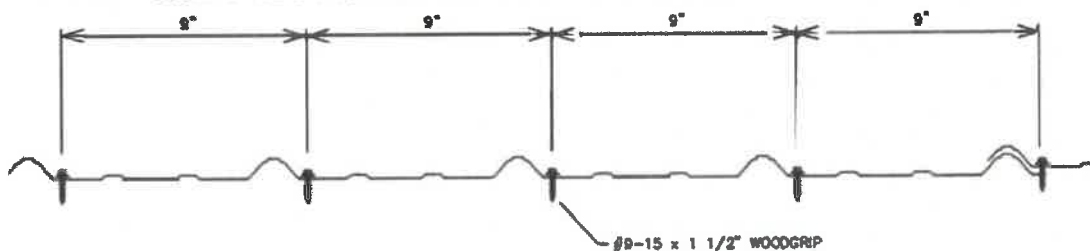
Force Engineering & Testing (TST-5328)#234-0261T-C-D UL 1897-12 equivalent 1897-15 DESIGN MARGIN OF SAFETY 2:1

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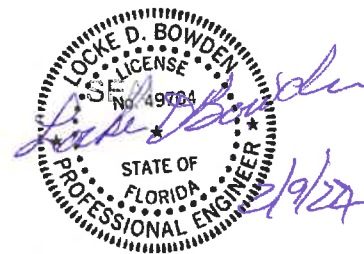
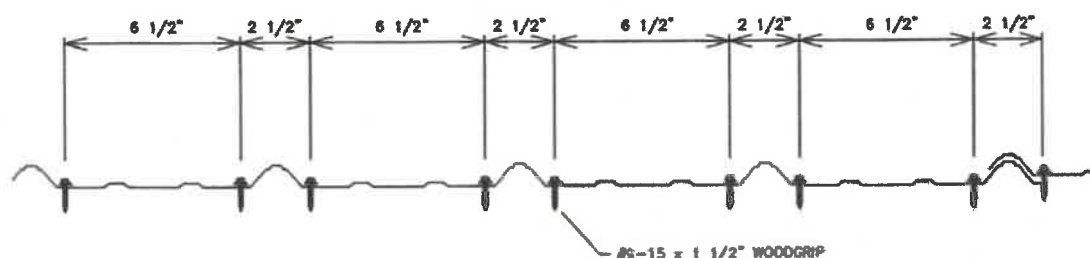
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ALPHA METAL PANELS 29GA RIB PANEL INSTALL DETAILS



STANDARD FASTENER PATTERN @ 24" O.C.



NOTE: #9-15 WOODGRIP HWH WITH WASHER OR APPROVED EQUIVALENT FASTENER MUST BE CORROSION RESISTANT