

Locke Bowden, P.E.
 9450 Alysbery Place
 Montgomery, AL 36117

Dixieland Metals Of Alabama
 378 Eastland Road
 Dothan, AL 36304

FL 4537

Quality Assurance Program: PRI Category: Structural Components Sub-Category: Roof Deck Method 1-D
 Code: FBC 2017 6th ed.; Sections: 1504, 1506.6, 1507

Description	Substrate	Design Uplift Pressure*		Fasteners
PBR 26GA Open Framing 36" width 80.0 ksi Non-HVHZ	Min. 16 GA. Steel Framing.	-47.5psf fastening pattern 12"-12"-12" @ 5'-0" o.c. *	1 ¼" rib height @ 12" o.c. thru fastened	Corrosion Resistant: #12-14 x 1-1/4" HWH SD w/ sealing washing or equal @ 12"-12"-12" fastener pattern. Side laps fastened together w/ 1/4-14 x 7/8" HWH SD w/ sealer washer at 20" o.c. Paint finish optional. Min. Slope shall comply w/ FBC 2017. For slopes less than 3:12, sealant must be used in side laps.
Tuff Rib 26GA Open Framing 36" width 80.0 ksi Non-HVHZ	Min. 16 GA. Steel Framing.	-96.8psf fastening pattern 9"-9"-9"-9" @ 2'-0" o.c. *	¾" rib height @ 9" o.c. thru fastened	Corrosion Resistant: #12-14 x 1-1/4" HWH SD w/ sealing washing or @ 9"-9"-9"-9" fastener pattern. Side laps fastened together w/ 1/4-14 x 7/8" HWH SD w/ sealer washer at 24" o.c. Paint finish optional. Min. Slope shall comply w/ FBC 2017. For slopes less than 3:12, sealant must be used in side laps.
Tuff Rib 29GA Open Framing 36" width 80.0 ksi Non-HVHZ	Min. 16 GA Steel framing.	-84.3psf fastening pattern 9"-9"-9"-9" @ 2'-0" o.c. *	3/4" rib height @ 9" o.c. thru fastened	Corrosion Resistant: #12-14 x 1-1/4" HWH SD w/ sealing washing or @ 9"-9"-9"-9" pattern. Side laps fastened together w/ 1/4-14 x 7/8" HWH SD w/ seal washer at 24" o.c. Paint finish optional. Min. Slope shall comply w/ FBC 2017. Slopes less than 3:12, sealant must be used in side laps. See Ch. 15, Table 1507.1.1 "Underlayment Table".

*Design Pressures includes safety factor=2.0

References

Entity	Report #	Standard	Year
Force Engineering & Testing (TST-5328)	#92-0348T-16H, I	ASTM E 1592-01, 05	(2012 ⁴)
Force Engineering & Testing (TST-5328)	#92-0178T-12B	FM 4471-92	
Force Engineering & Testing (TST-5328)	#92-0348T-06C	UL 580-94 ¹ /1897-98 ²	(2006 ¹ /2012 ²)
Force Engineering & Testing (TST-5328)	#92-0178T-12A	FM 4471-92	
Force Engineering & Testing (TST-5328)	#92-0348T-06D	UL 580-94 ¹ /1897-98 ²	(2006 ¹ /2012 ²)
Force Engineering & Testing (TST-5328)	#92-0178T-12A	FM 4471-92	

1. The UL580-94 test standards are equivalent to the UL580-06 test standard.
2. The UL1897-98, 04 test standards are equivalent to the UL1897-12 test standard.
3. The FM 4471-10 test standards are equivalent to the FM 4471-1992 test standard.
4. The ASTM E 1592-01, 05 test standards are equivalent to the ASTM E 1592-2012 test standards.

Limitations:

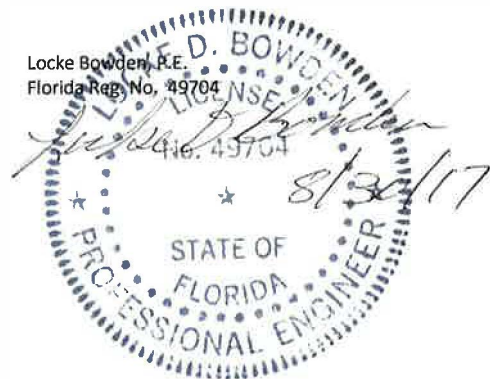
1. Underlayment to be compliance with current Florida Building Code 2017 6th ed., Section 1507.1.1
2. Minimum slope to be in compliance with Florida Building Code 2017, 6th ed., and in accordance with Manufacturer's installation references.
3. Products are compliant for State of Florida product approval per Rule 61G20-3. Method 1-D.
4. Fire classification is not part of this acceptance. Shear diaphragm values are outside this report.
5. All support framing compliant with Florida Building Code 2017, 6th ed. Chapter 22 for Steel, Chapter 23 for Wood and Chapter 16 for Structural Loading.
6. This report does not imply warranty, installation, recommended product use outside of this report.

Compliance Statement: These products herein evaluated by Locke Bowden, P.E. have demonstrated compliance with the Florida Building Code 2017, 6th ed. with referenced documents submitted.

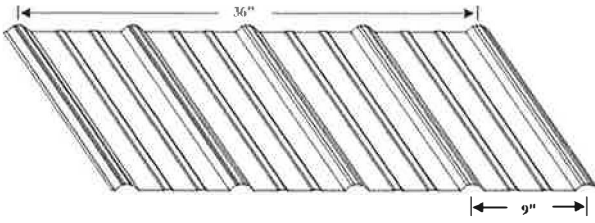
Certificate of Independence

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.

Locke Bowden, P.E.
 Florida Reg. No. 49704



Installation Details



All Fasteners Must Be Corrosion Resistant In Compliance w/FBC 2017

29GA and 26GA Tuff Rib

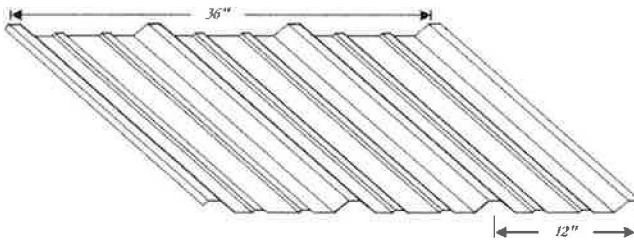
-84.3psf fastening
pattern 9"-9"-9"-9"
@ 2'-0" o.c. *

-96.8psf fastening
pattern 9"-9"-9"-9"
@ 2'-0" o.c. *

Roof Deck USE #12-14 HWH SD w/sealing washer

Metal Roofing USE #10-16 HWH Woodgrip w/sealing washer

Side laps fastened together w/ 1/4-14 x 7/8" HWH SD w/ sealer washer at 24" o.c.



Side laps fastened together w/ 1/4-14 x 7/8" HWH SD w/ sealer washer at 20" o.c.

PBR 26GA

-47.5psf fastening pattern
12"-12"-12" @ 5'-0" o.c. *
+60.0psf fastening pattern
12"-12"-12" @ 5'-0" o.c. *

Roof Deck USE #12-14 HWH SD w/sealing washer

Metal Roofing USE #9-15 Woodgrip w/sealing washer