

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

Dixieland Metals of Alabama
378 Eastland Road
Dothan, Alabama 36304

FL 4149

Quality Assurance Program: Keystone Certifications Category: Roofing Sub-Category: Metal Roofing Method 1-D
Code: FBC 2014 5th ed.; Sections: 1504.3.2, 1507.4.3, 1506.6, 1507.4.4, 1504.7

Description	Substrate	Design Uplift Pressure*	Fasteners	
.1 PBR 26GA 36" width 80.0 ksi Non-structural Non-HVHZ	Min. 15/32" APA Plywood Over supports @ 24" o.c.	-56.75psf fastening pattern 12"- 12"-12" @ 24" o.c.	1 1/4" rib height @ 12" o.c. thru fastened	Corrosion Resistant: #9-15 x 1 1/2" HWH Woodgrip w/ sealing washing or equal. 1/4"-14 x 7/8" Lap screw w/ sealing washer @24" o.c. in panel side laps. Paint finish optional. 1/4" min. penetration through plywood. Min. Slope shall comply with FBC 2014. For slopes less than 3:12,use sealant in side laps.
.2 1 3/4" Snap Lock 26GA 14" width 50.0 ksi Non-structural Non-HVHZ	Min. 15/32" APA Plywood Over supports @ 24" o.c. Standing seam	-64.25psf @24" O.C, 2 fasteners per clip @ 24" o.c.	1-3/4" rib height	Corrosion Resistant: (2)#10-13GP Concealer Clip: name DMP 175.SL FIXED Paint finish optional. 1/4" min. penetration through plywood. Min. Slope shall comply with FBC 2014. For slopes less than 3:12,use sealant in side laps.
.3 TUFF Rib 26GA 36" width 80 ksi Non-structural Non HVHZ Tuff Rib min. 29GA over 1x 4 SYP wood purlins Min 80 ksi Non-Structural Non HVHZ	Min. 15/32" APA Plywood Over supports @ 24" o.c. Over 1x4 SYP wood purlins over one layer of asphalt shingles (optional) Over min. 7/16" OSB or 15"/32 APA plywood Over supports @ 24" o.c.	-86.75 psf fastening pattern 9"-9"-9"-9" @ 24" o.c. -146 psf fastening pattern 6.5"-2.5"-6.5"- 2.5"-6.5"-2.5"-6.5" @ 12" o.c. - 45 psf @ 24" o.c. -157.5 psf @12" o.c.	3/4" rib height @9" o.c. thru fastened 3/4" rib thru fastened	Corrosion Resistant: #10-16 HWH Woodgrip w/sealing washer 1/4" min. penetration through plywood. Paint finish optional Min. Slope shall comply with FBC 2014. For slopes less than 3:12, use sealant in side laps. Install per manufacturer instructions Corrosion resistant: #10-16 x 1.5" HWH wood screw w/sealing washer Additional fastening for Rib w/1x4's: Decking to be attached w/ 8D x 2-1/5" nails spaced 6" o.c. along perimeter and 12" o.c. at intermediate supports. Min. slope shall comply with FBC 2014.

* Design Pressures includes safety factor=2.0

References

Entity	Report #	Standard	Year
Force Engineering & Testing (TST-5328)	#92-0348T-06L	UL 580-94 ¹ /1897-98 ²	(2006 ¹ /2004 ²)
Force Engineering & Testing (TST-5328)	#92-0348T-06G	UL 580-94 ¹ /1897-98 ²	(2006 ¹ /2004 ²)
Force Engineering & Testing (TST-5328)	#92-0348T-06A, E	UL 580-94 ¹ /1897-98 ²	(2006 ¹ /2004 ²)
PRI Construction Material Technologies (TST5878)	# FAE-019-02-01	UL580-06/UL1897-04	

1. The UL580-94 test standards are equivalent to the UL580-06 test standard.
2. The UL1897-98 test standards are equivalent to the UL1897-04 test standard.
3. The FM 4471-95 test standards are equivalent to the FM 4471-1992 test standard.

Limitations:

1. Underlayment to be compliance with current Florida Building Code.
2. Minimum slope to be in compliance with Florida Building Code 2014, and in accordance with Manufacturer's installation reference.
3. Products are compliant for State of Florida product approval per Rule 61G20-3
4. Fire classification is not part of this acceptance.
5. Shear diaphragm values are outside this report.
6. All support framing to be in compliance with Florida Building Code 2014, Chapter 22 Steel, Chapter 23 Wood and Chapter 16 Structural Loading.
7. 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 2014 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.

