



EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: ELITE STEEL MANUFACTURERS OF FLORIDA LLC *Issued February 13, 2023*
 942 Blanche Street
 Jacksonville, FL 32204
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Manufacturing Locations: Jacksonville, FL

Quality Assurance: PRI Construction Materials Technologies (QUA9110)

SCOPE

Category: Roofing
Subcategory: Metal Roofing
Code Edition: Florida Building Code, 7th Edition (2020)
Code Sections: 1504.3, 1504.3.2
Properties: Wind Resistance

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	945T0002	ASTM B 117	2016
PRI Construction Materials Technologies (TST5878)	945T0004	ASTM G 155	2013
PRI Construction Materials Technologies (TST5878)	2518T0001.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0002.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0003.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0004	UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0005	UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0006	FM 4471	1992
PRI Construction Materials Technologies (TST5878)	2518T0007	UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0008.1	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	2518T0009.1	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	2518T0010.1	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	2518T0011.1	UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0012.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0013.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	2518T0015.1	TAS 125	2003
		UL 580	2006
		UL 1897	2012

PRODUCT DESCRIPTION

Classic Roll Tile	Profile:	7/8 in. ribs; 12 in. step x 46-1/2 in.; 41-5/16 in. coverage
	Description:	Non-structural, preformed, through fastened roof panel
	Material:	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F _y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
Prima Tile	Profile:	1-1/16 in. ribs; 12 in. step x 45-1/4 in.; 39-11/16 in. coverage
	Description:	Non-structural, preformed, through fastened roof panel
	Material:	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F _y = min. 50 ksi); Shall conform with FBC Section 1507.4.3

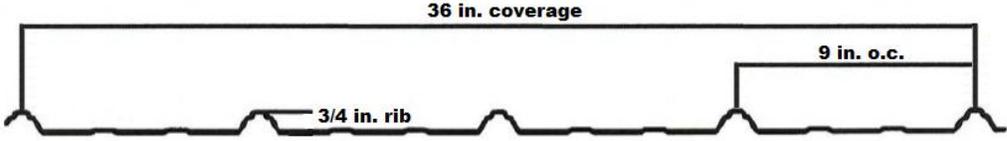


Universal Tile	Profile:	1-5/16 in. ribs; 12 in. step x 44-1/8 in.; 39-11/16 in. coverage
	Description:	Non-structural, preformed, through fastened roof panel
	Material:	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F _y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
Barrel Tile	Profile:	1-3/8 in. ribs; 12 in. step x 45-1/4 in.; 41-1/4 in. coverage
	Description:	Non-structural, preformed, through fastened roof panel
	Material:	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F _y = min. 50 ksi); Shall conform with FBC Section 1507.4.3



Spanish Tile	Profile:	1-1/2 in. ribs; 12 in. step x 44-7/8 in.; 39-11/16 in. coverage
	Description:	Non-structural, preformed, through fastened roof panel
	Material:	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL ($F_y = \text{min. } 50 \text{ ksi}$); Shall conform with FBC Section 1507.4.3
Wave Tile	Profile:	1-5/16 in. ribs; 12 in. step x 46-1/2 in.; 39-11/16 in. coverage
	Description:	Non-structural, preformed, through fastened roof panel
	Material:	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL ($F_y = \text{min. } 50 \text{ ksi}$); Shall conform with FBC Section 1507.4.3



Tuff Rib	Profile:	3/4 in. ribs; 36 in. coverage
	Description:	Non-structural, preformed, through fastened roof panel
	Material:	Min. 26 ga. ASTM A792 AZ50 steel coated with WeatherXL (F _y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		

LIMITATIONS

1. This report is not for use in the HVHZ.
2. Fire classification is not within the scope of this evaluation.
3. The roof deck, wood battens and their attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
4. Roof slope shall be in accordance with FBC Section 1507.4.2
5. Reroofing shall be in accordance with Section 1511.
6. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
7. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) as evidenced in the referenced documents submitted by the named manufacturer.



**This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 2/13/2023.**

**Printed copies of this
document are not
considered signed and
sealed and the signature
must be verified on any
electronic copies.**

Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

APPENDICES

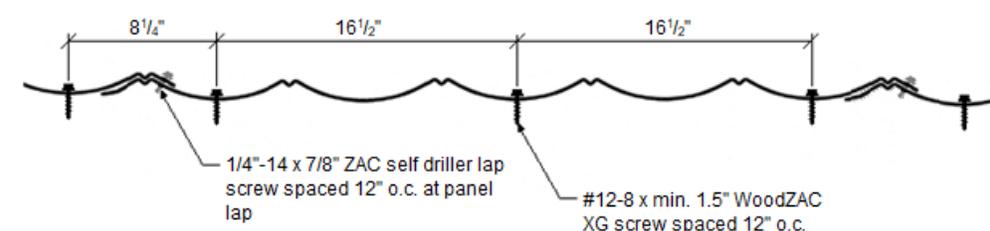
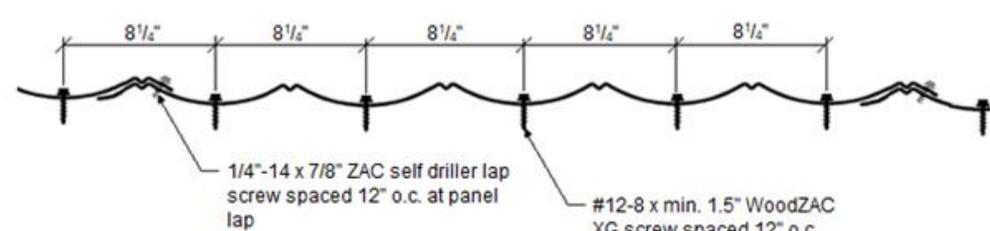
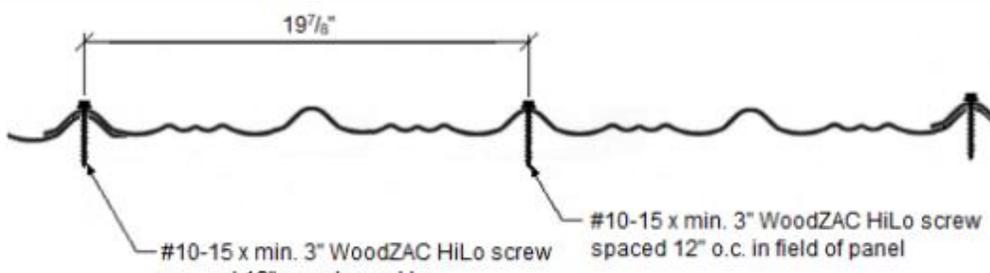
- 1) APPENDIX A – Installation (3 pages)
- 2) APPENDIX B – Approved Roof Systems (5 pages)
- 3) APPENDIX C – Design Wind Loads (4 pages)

INSTALLATION

Note - Refer to the [APPROVED ROOF SYSTEMS](#) section of this report for specific installation details of a selected system.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Component	Product	Installation Detail
Fasteners	#10-15 HiLo WoodZAC; Type 17 milled point; by SFS Intec	Shall penetrate through the sheathing a minimum 3/8 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4.
	#12-8 WoodZAC XG, Sharp point, by SFS Intec	
	1/4"-14 x 7/8" ZAC self driller lap screw; by SFS Intec	Shall be corrosion resistant in accordance with FBC section 1506.6.

Fastening Details	
Nomenclature	Attachment
ROLL 1	
ROLL 2	
PRIMA 1	

Fastening Details	
Nomenclature	Attachment
PRIMA 2	<p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. at panel lap</p> <p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. in field of panel</p>
UNIVERSAL 1	<p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. at panel lap</p> <p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. in field of panel</p>
UNIVERSAL 2	<p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. at panel lap</p> <p>#10-15 x min. 3" WoodZAC HiLo screw spaced 12" o.c. in field of panel</p>
BARREL	<p>#10-15 x min. 3" WoodZAC HiLo screw</p> <p>#10-15 x min. 3" WoodZAC HiLo screw</p>
SPANISH	<p>#10-15 x min. 3" WoodZAC HiLo screw</p> <p>#10-15 x min. 3" WoodZAC HiLo screw</p>

Fastening Details	
Nomenclature	Attachment
WAVE	<p>Diagram showing fastening details for WAVE metal roofing. It features a series of four screws spaced at $7\frac{15}{16}$ inches. Labels include "#10-15 x min. 3" WoodZAC HILO screw" and "#10-15 x min. 3" WoodZAC HILO screw".</p>
TUFF RIB	<p>Diagram showing fastening details for TUFF RIB metal roofing. It features a series of four screws spaced at 9 inches, with a panel lap detail. Labels include "#10-15 x min. 1.5-inch WoodZAC HILO screw" and "1/4-14 x 7/8" ZAC self drill lap screw".</p>

APPROVED ROOF SYSTEMS

The following notes shall be observed when using the assembly tables below.

1. Maximum Design Pressure (*MDP*) was calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to [LIMITATIONS](#) and sections of this evaluation when using the table(s) below.
3. Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. Unless otherwise specified, Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum 15/32 in. thick APA Span-Rated, plywood sheathing at maximum 24 in. span.
6. OSB decking shall be minimum 7/16 in. thick APA span rated sheathing at maximum 24 in. span.
7. No. 2 SYP wood battens used over solidly sheathed decks shall be installed parallel to the eave and 90 degrees to the roof trusses/rafters. Wood battens shall be located under each fastener row. Panel fasteners shall be installed through the battens and into the roof deck. Battens shall be secured in place prior to fastening the roof panels with minimum 0.113 in. x 2-3/8 in. ring shank nails staggered 12 in. o.c.

Roof System Numbers and Definitions	
CT-W-#	Min. 26ga. steel Classic Roll Tile over Wood Deck (New or Existing)
PT-W-#	Min. 26ga. steel Prima Tile over Wood Deck (New or Existing)
UT-W-#	Min. 26ga. steel Universal Tile over Wood Deck (New or Existing)
BT-W-#	Min. 26ga. steel Barrel Tile over Wood Deck (New or Existing)
ST-W-#	Min. 26ga. steel Spanish Tile over Wood Deck (New or Existing)
WT-W-#	Min. 26ga. steel Wave Tile over Wood Deck (New or Existing)
TR-O-#	Min. 26ga. steel Tuff Rib over OSB Deck (New or Existing)

Approved Systems for Min. 26ga. steel Classic Roll Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	<i>MDP</i> (psf)
CT-W-1	Min. 15/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Classic Roll Tile	#12-8 x min. 1.5 in. WoodZAC XG screws installed across the panel width at the vertical leg adjacent to the step per ROLL 1 attachment spaced 12 in. o.c. along the length of the panel	-82.5
CT-W-2	Min. 19/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Classic Roll Tile	#12-8 x min. 1.5 in. WoodZAC XG screws installed across the panel width at the vertical leg adjacent to the step per ROLL 1 attachment spaced 12 in. o.c. along the length of the panel	-89.75
CT-W-3	Min. 15/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Classic Roll Tile	#12-8 x min. 1.5 in. WoodZAC XG screws installed across the panel width at the vertical leg adjacent to the step per ROLL 2 attachment spaced 12 in. o.c. along the length of the panel	-165

APPENDIX B

Approved Systems for Min. 26ga. steel Classic Roll Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
CT-W-4	Min. 19/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Classic Roll Tile	#12-8 x min. 1.5 in. WoodZAC XG screws installed across the panel width at the vertical leg adjacent to the step per ROLL 2 attachment spaced 12 in. o.c. along the length of the panel	-168.5

Approved Systems for Min. 26ga. steel Prima Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
PT-W-1	Min. 15/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Prima Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per PRIMA 1 attachment spaced 12 in. o.c. along the length of the panel	-63.5
PT -W-2	Min. 19/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Prima Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per PRIMA 1 attachment spaced 12 in. o.c. along the length of the panel	-86
PT -W-3	Min. 15/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Prima Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per PRIMA 2 attachment spaced 12 in. o.c. along the length of the panel	-123.5
PT-W-4	Min. 19/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Prima Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per PRIMA 2 attachment spaced 12 in. o.c. along the length of the panel	-168.5

APPENDIX B

Approved Systems for Min. 26ga. steel Universal Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
UT-W-1	Min. 15/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Universal Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per UNIVERSAL 1 attachment spaced 12 in. o.c. along the length of the panel	-63.5
UT -W-2	Min. 19/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Universal Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per UNIVERSAL 1 attachment spaced 12 in. o.c. along the length of the panel	-86
UT -W-3	Min. 15/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Universal Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per UNIVERSAL 2 attachment spaced 12 in. o.c. along the length of the panel	-123.5
UT-W-4	Min. 19/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Universal Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per UNIVERSAL 2 attachment spaced 12 in. o.c. along the length of the panel	-168.5

Approved Systems for Min. 26ga. steel Barrel Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
BT-W-1	Min. 19/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Barrel Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per BARREL attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	-71
BT-W-2	Min. 19/32 CDX plywood	OPTIONAL <i>Approved</i> fire barrier	As required per FBC	Min. 26ga. steel Barrel Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per BARREL attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	-168.5

Approved Systems for Min. 26ga. steel Spanish Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
ST-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Spanish Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per SPANISH attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	-67.25
ST-W-2	Min. 19/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Spanish Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per SPANISH attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	-89.75
ST-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Spanish Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per SPANISH attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	-138.5
ST-W-4	Min. 19/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Spanish Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per SPANISH attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	-168.5

Approved Systems for Min. 26ga. steel Wave Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
WT-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Wave Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per WAVE attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	-67.25
WT-W-2	Min. 19/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Wave Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per WAVE attachment spaced 12 in. o.c. at the panel lap and 24 in. o.c. in the field of the panel	-89.75

APPENDIX B

Approved Systems for Min. 26ga. steel Wave Tile over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
WT-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Wave Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per WAVE attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	-138.5
WT-W-4	Min. 19/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Wave Tile	#10-15 x min. 3 in. WoodZAC screws installed across the panel width at the vertical leg adjacent to the step per WAVE attachment spaced 12 in. o.c. at the panel lap and 12 in. o.c. in the field of the panel	-168.5

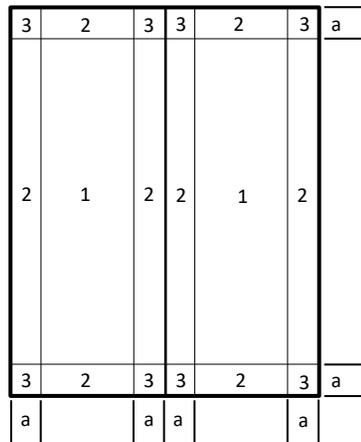
Approved Systems for Min. 26ga. steel Tuff Rib over OSB Deck (New or Existing)							
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
TR-O-1	Min. 7/16 OSB with OPTIONAL single layer of ASTM D 3462 asphalt shingles	No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26 ga. steel Tuff Rib	TUFF RIB attachment with #10-15 x min. 3 in. WoodZAC screws spaced 24 in. o.c.	-63.5
TR-O-2	Min. 7/16 OSB	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26 ga. steel Tuff Rib	TUFF RIB attachment with #10-15 x min. 1.5 in. WoodZAC screws spaced 24 in. o.c.	-67.5
TR-O-3	Min. 7/16 OSB	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26 ga. steel Tuff Rib	TUFF RIB attachment with #10-15 x min. 1.5 in. WoodZAC screws spaced 12 in. o.c.	-105

DESIGN WIND LOADS

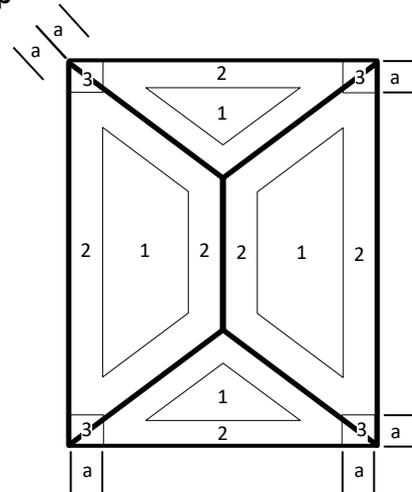
The following tables provide design wind loads for components and cladding in accordance with Section 1609 of the FBC and ASCE 7-16 under the following provisions:

1. Wind speeds for risk category I, II, III, and IV buildings shall be as defined in Section 1609 of the FBC.
2. Exposure B, C and D shall be as defined in section 1609 of the FBC.
3. Design wind load provided only for gable/hip roofs with roof slopes between 2:12 and 12:12
4. All calculations are based on an effective wind area of 10-ft² or less.
5. Topographic factors such as escarpments or hills have been excluded from the analysis
6. Overhangs have been excluded from the analysis.
7. Wind directionality factor, $K_d = 0.85$
8. V_{ult} is shown in the tables below. Design wind loads are calculated using $V_{asd} = V_{ult} \sqrt{0.6}$ per 1609.3.1.
9. Zone 2 is inclusive of Zone 2e, Zone 2n, and Zone 2r
10. Zone 3 is inclusive of Zone 3e and Zone 3r
11. Projects with mean roof heights greater than 60-ft shall be evaluated by a licensed design professional
12. Zones 1, 2, and 3 shall be defined as shown below. Dimension "a" shall be 10% of the least horizontal dimension or (0.4 x Mean Roof Height), whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft

Gable



Hip



APPENDIX C

Gable/Hip Roofs in Exposure B (Roof slope between 2:12 and 12:12)											
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)								
			120	130	140	150	160	170	180	190	200
Enclosed/ Partially Open	1	20	-25.4	-29.8	-34.6	-39.7	-45.2	-51.0	-57.2	-63.7	-70.6
		25	-27.5	-32.2	-37.4	-42.9	-48.8	-55.1	-61.8	-68.8	-76.3
		30	-28.7	-33.7	-39.1	-44.8	-51.0	-57.6	-64.6	-71.9	-79.7
		40	-31.2	-36.6	-42.4	-48.7	-55.4	-62.5	-70.1	-78.1	-86.5
		50	-33.2	-39.0	-45.2	-51.9	-59.0	-66.6	-74.7	-83.2	-92.2
		60	-34.8	-40.9	-47.4	-54.4	-61.9	-69.9	-78.4	-87.3	-96.8
	2	20	-37.1	-43.5	-50.5	-57.9	-65.9	-74.4	-83.4	-92.9	-103.0
		25	-40.1	-47.0	-54.5	-62.6	-71.2	-80.4	-90.1	-100.4	-111.3
		30	-41.9	-49.1	-57.0	-65.4	-74.4	-84.0	-94.2	-104.9	-116.3
		40	-45.4	-53.3	-61.9	-71.0	-80.8	-91.2	-102.2	-113.9	-126.2
		50	-48.4	-56.8	-65.9	-75.7	-86.1	-97.2	-109.0	-121.4	-134.5
		60	-50.8	-59.6	-69.2	-79.4	-90.3	-102.0	-114.3	-127.4	-141.2
	3	20	-44.1	-51.7	-60.0	-68.8	-78.3	-88.4	-99.1	-110.5	-122.4
		25	-47.6	-55.9	-64.8	-74.4	-84.7	-95.6	-107.1	-119.4	-132.3
		30	-49.8	-58.4	-67.7	-77.7	-88.4	-99.8	-111.9	-124.7	-138.2
		40	-54.0	-63.4	-73.5	-84.4	-96.0	-108.4	-121.5	-135.4	-150.0
		50	-57.6	-67.6	-78.4	-90.0	-102.3	-115.5	-129.5	-144.3	-159.9
		60	-60.4	-70.9	-82.2	-94.4	-107.4	-121.2	-135.9	-151.4	-167.8
Partially Enclosed	1	20	-29.7	-34.9	-40.5	-46.5	-52.8	-59.7	-66.9	-74.5	-82.6
		25	-32.1	-37.7	-43.7	-50.2	-57.1	-64.5	-72.3	-80.5	-89.2
		30	-33.6	-39.4	-45.7	-52.4	-59.7	-67.4	-75.5	-84.1	-93.2
		40	-36.4	-42.8	-49.6	-56.9	-64.8	-73.1	-82.0	-91.3	-101.2
		50	-38.8	-45.6	-52.9	-60.7	-69.0	-77.9	-87.4	-97.4	-107.9
		60	-40.8	-47.8	-55.5	-63.7	-72.4	-81.8	-91.7	-102.2	-113.2
	2	20	-41.4	-48.6	-56.3	-64.7	-73.6	-83.1	-93.1	-103.7	-115.0
		25	-44.7	-52.5	-60.9	-69.9	-79.5	-89.8	-100.6	-112.1	-124.2
		30	-46.7	-54.8	-63.6	-73.0	-83.1	-93.8	-105.1	-117.1	-129.8
		40	-50.7	-59.5	-69.0	-79.3	-90.2	-101.8	-114.1	-127.2	-140.9
		50	-54.1	-63.4	-73.6	-84.5	-96.1	-108.5	-121.6	-135.5	-150.2
		60	-56.7	-66.6	-77.2	-88.6	-100.9	-113.9	-127.6	-142.2	-157.6
	3	20	-48.4	-56.8	-65.8	-75.6	-86.0	-97.1	-108.8	-121.3	-134.4
		25	-52.3	-61.4	-71.2	-81.7	-92.9	-104.9	-117.6	-131.1	-145.2
		30	-54.6	-64.1	-74.3	-85.3	-97.1	-109.6	-122.9	-136.9	-151.7
		40	-59.3	-69.6	-80.7	-92.7	-105.4	-119.0	-133.4	-148.7	-164.7
		50	-63.2	-74.2	-86.0	-98.8	-112.4	-126.8	-142.2	-158.4	-175.6
		60	-66.3	-77.8	-90.3	-103.6	-117.9	-133.1	-149.2	-166.3	-184.2

Gable/Hip Roofs in Exposure C (Roof slope between 2:12 and 12:12)											
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)								
			120	130	140	150	160	170	180	190	200
Enclosed/ Partially Open	1	20	-36.9	-43.3	-50.2	-57.6	-65.6	-74.0	-83.0	-92.5	-102.5
		25	-38.5	-45.2	-52.4	-60.2	-68.5	-77.3	-86.7	-96.6	-107.0
		30	-40.2	-47.1	-54.7	-62.8	-71.4	-80.6	-90.4	-100.7	-111.6
		40	-42.6	-50.0	-58.0	-66.6	-75.8	-85.6	-95.9	-106.9	-118.4
		50	-44.7	-52.4	-60.8	-69.8	-79.4	-89.7	-100.5	-112.0	-124.1
		60	-46.3	-54.4	-63.0	-72.4	-82.3	-93.0	-104.2	-116.1	-128.7
	2	20	-53.8	-63.2	-73.2	-84.1	-95.7	-108.0	-121.1	-134.9	-149.5
		25	-56.2	-66.0	-76.5	-87.8	-99.9	-112.8	-126.5	-140.9	-156.1
		30	-58.6	-68.8	-79.8	-91.6	-104.2	-117.6	-131.8	-146.9	-162.8
		40	-62.2	-73.0	-84.6	-97.2	-110.5	-124.8	-139.9	-155.9	-172.7
		50	-65.2	-76.5	-88.7	-101.8	-115.9	-130.8	-146.6	-163.4	-181.0
		60	-67.6	-79.3	-92.0	-105.6	-120.1	-135.6	-152.0	-169.4	-187.7
	3	20	-64.0	-75.1	-87.1	-99.9	-113.7	-128.4	-143.9	-160.3	-177.7
		25	-66.8	-78.4	-90.9	-104.4	-118.8	-134.1	-150.3	-167.5	-185.6
		30	-69.7	-81.7	-94.8	-108.8	-123.8	-139.8	-156.7	-174.6	-193.5
		40	-73.9	-86.7	-100.6	-115.5	-131.4	-148.3	-166.3	-185.3	-205.3
		50	-77.5	-90.9	-105.4	-121.0	-137.7	-155.5	-174.3	-194.2	-215.2
		60	-80.3	-94.3	-109.3	-125.5	-142.8	-161.2	-180.7	-201.3	-232.1
Partially Enclosed	1	20	-43.2	-50.6	-58.7	-67.4	-76.7	-86.6	-97.1	-108.2	-119.9
		25	-45.1	-52.9	-61.3	-70.4	-80.1	-90.4	-101.4	-113.0	-125.2
		30	-47.0	-55.1	-64.0	-73.4	-83.5	-94.3	-105.7	-117.8	-130.5
		40	-49.9	-58.5	-67.9	-77.9	-88.6	-100.1	-112.2	-125.0	-138.5
		50	-52.3	-61.3	-71.1	-81.7	-92.9	-104.9	-117.6	-131.0	-145.2
		60	-54.2	-63.6	-73.7	-84.7	-96.3	-108.7	-121.9	-135.8	-150.5
	2	20	-60.1	-70.5	-81.8	-93.9	-106.8	-120.6	-135.2	-150.6	-166.9
		25	-62.7	-73.6	-85.4	-98.0	-111.5	-125.9	-141.2	-157.3	-174.3
		30	-65.4	-76.8	-89.0	-102.2	-116.3	-131.3	-147.2	-164.0	-181.7
		40	-69.4	-81.5	-94.5	-108.5	-123.4	-139.3	-156.2	-174.0	-192.8
		50	-72.8	-85.4	-99.0	-113.7	-129.3	-146.0	-163.7	-182.4	-202.1
		60	-75.4	-88.5	-102.7	-117.8	-134.1	-151.4	-169.7	-189.1	-209.5
	3	20	-70.2	-82.4	-95.6	-109.7	-124.8	-140.9	-158.0	-176.0	-195.1
		25	-73.3	-86.1	-99.8	-114.6	-130.4	-147.2	-165.0	-183.9	-203.7
		30	-76.5	-89.7	-104.1	-119.5	-135.9	-153.5	-172.0	-191.7	-212.4
		40	-81.1	-95.2	-110.5	-126.8	-144.3	-162.9	-182.6	-203.4	-225.4
		50	-85.0	-99.8	-115.8	-132.9	-151.2	-170.7	-191.4	-213.2	-236.2
		60	-88.2	-103.5	-120.0	-137.8	-156.7	-177.0	-198.4	-221.0	-244.9

APPENDIX C

Gable/Hip Roofs in Exposure D (Roof slope between 2:12 and 12:12)											
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)								
			120	130	140	150	160	170	180	190	200
Enclosed/ Partially Open	1	20	-44.3	-52.0	-60.3	-69.2	-78.7	-88.8	-99.6	-111.0	-123.0
		25	-45.9	-53.9	-62.5	-71.7	-81.6	-92.1	-103.3	-115.1	-127.5
		30	-47.5	-55.8	-64.7	-74.3	-84.5	-95.4	-107.0	-119.2	-132.1
		40	-50.0	-58.7	-68.1	-78.1	-88.9	-100.4	-112.5	-125.4	-138.9
		50	-52.1	-61.1	-70.9	-81.3	-92.5	-104.5	-117.1	-130.5	-144.6
		60	-53.7	-63.0	-73.1	-83.9	-95.5	-107.8	-120.8	-134.6	-149.1
	2	20	-64.6	-75.8	-87.9	-100.9	-114.8	-129.6	-145.3	-161.9	-179.4
		25	-67.0	-78.6	-91.1	-104.6	-119.0	-134.4	-150.7	-167.9	-186.0
		30	-69.4	-81.4	-94.4	-108.4	-123.3	-139.2	-156.0	-173.9	-192.6
		40	-72.9	-85.6	-99.3	-114.0	-129.7	-146.4	-164.1	-182.9	-202.6
		50	-75.9	-89.1	-103.3	-118.6	-135.0	-152.4	-170.8	-190.4	-210.9
		60	-78.3	-91.9	-106.6	-122.4	-139.2	-157.2	-176.2	-196.3	-217.6
	3	20	-76.8	-90.1	-104.5	-119.9	-136.5	-154.0	-172.7	-192.4	-213.2
		25	-79.6	-93.4	-108.3	-124.4	-141.5	-159.7	-179.1	-199.5	-221.1
		30	-82.4	-96.8	-112.2	-128.8	-146.6	-165.4	-185.5	-206.7	-229.0
		40	-86.7	-101.8	-118.0	-135.5	-154.1	-174.0	-195.1	-217.4	-240.8
		50	-90.3	-105.9	-122.8	-141.0	-160.5	-181.1	-203.1	-226.3	-250.7
		60	-93.1	-109.3	-126.7	-145.5	-165.5	-186.8	-209.5	-233.4	-258.6
Partially Enclosed	1	20	-51.8	-60.8	-70.5	-80.9	-92.1	-103.9	-116.5	-129.8	-143.8
		25	-53.7	-63.0	-73.1	-83.9	-95.5	-107.8	-120.8	-134.6	-149.2
		30	-55.6	-65.3	-75.7	-86.9	-98.9	-111.6	-125.1	-139.4	-154.5
		40	-58.5	-68.7	-79.6	-91.4	-104.0	-117.4	-131.6	-146.6	-162.5
		50	-60.9	-71.5	-82.9	-95.1	-108.2	-122.2	-137.0	-152.6	-169.1
		60	-62.8	-73.7	-85.5	-98.1	-111.7	-126.0	-141.3	-157.5	-174.5
	2	20	-72.1	-84.6	-98.1	-112.6	-128.2	-144.7	-162.2	-180.7	-200.2
		25	-74.8	-87.7	-101.7	-116.8	-132.9	-150.0	-168.2	-187.4	-207.6
		30	-77.4	-90.9	-105.4	-121.0	-137.6	-155.4	-174.2	-194.1	-215.1
		40	-81.4	-95.6	-110.8	-127.2	-144.8	-163.4	-183.2	-204.1	-226.2
		50	-84.8	-99.5	-115.4	-132.4	-150.7	-170.1	-190.7	-212.5	-235.5
		60	-87.4	-102.6	-119.0	-136.6	-155.4	-175.5	-196.7	-219.2	-242.9
	3	20	-84.3	-98.9	-114.7	-131.7	-149.8	-169.1	-189.6	-211.3	-234.1
		25	-87.4	-102.6	-118.9	-136.5	-155.4	-175.4	-196.6	-219.1	-242.7
		30	-90.5	-106.2	-123.2	-141.4	-160.9	-181.6	-203.6	-226.9	-251.4
		40	-95.2	-111.7	-129.6	-148.7	-169.2	-191.0	-214.2	-238.6	-264.4
		50	-99.1	-116.3	-134.9	-154.8	-176.2	-198.9	-223.0	-248.4	-275.2
		60	-102.2	-120.0	-139.1	-159.7	-181.7	-205.1	-230.0	-256.2	-283.9

END OF REPORT

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.