



EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: TRI COUNTY METALS
301 SE 16th Street
Trenton, FL 32693
(877) 766-3309
www.tricountymetals.com

Issued December 17, 2021

Manufacturing Locations: Trenton, FL

Quality Assurance: Keystone Certifications, Inc. (QUA1824)

SCOPE

Category: Roofing
Subcategory: Metal Roofing
Code Edition: Florida Building Code, 7th Edition (2020) High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1518.9.1, 1523.1.1, 1523.6.5, 1523.6.5.2.4, 1523.6.5.2.4.1
Properties: Wind Resistance

REFERENCES


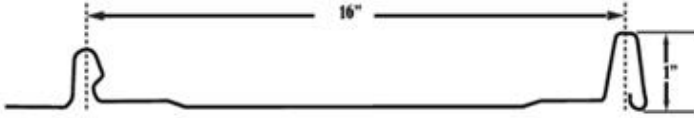

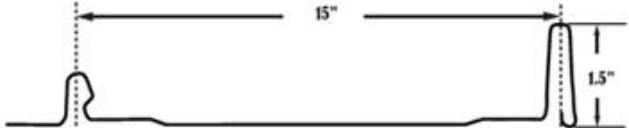
<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	945T0002	ASTM B 117	2016
PRI Construction Materials Technologies (TST5878)	945T0004	ASTM G 155	2013
PRI Construction Materials Technologies (TST5878)	1272T0002	ASTM B 117	2016
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1272T0003	ASTM B 117	2016
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1272T0005	ASTM G 155	2013
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1272T0006	ASTM G 155	2013
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1930T0001	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	1930T0002	TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	1930T0003	TAS 125	2003
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PRI Construction Materials Technologies (TST5878)	1930T0008	TAS 100	1995
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PRI Construction Materials Technologies (TST5878)	1930T0011	ASTM G 155	2013
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PRI Construction Materials Technologies (TST5878)	1930T0013	TAS 125	2003
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PRI Construction Materials Technologies (TST5878)	1930T0016	TAS 125	2003
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		UL 1897	2012




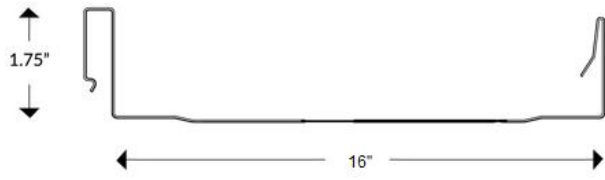

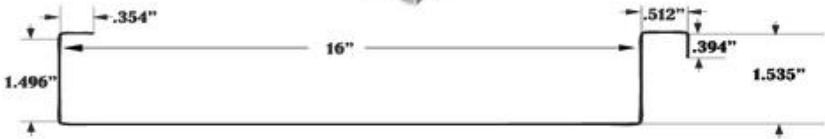
<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	1930T0019	UL 580	2006
PRI Construction Materials Technologies (TST5878)	1930T0020	UL 1897	2012
		TAS 125	2003
		UL 580	2006
PRI Construction Materials Technologies (TST5878)	1930T0021	UL 1897	2012
		TAS 125	2003
		UL 580	2006
		UL 1897	2012
PRI Construction Materials Technologies (TST5878)	1930T0022	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	1930T0024	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	1930T0025	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	1930T0027	TAS 125	2003
		UL 580	2006
		UL 1897	2012
		ASTM C 794	2001
PRI Construction Materials Technologies (TST5878)	1930T0028		




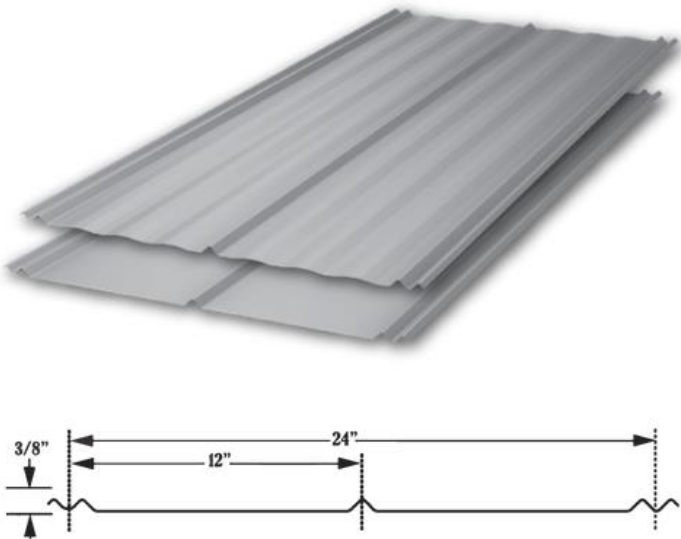
PRODUCT DESCRIPTION

TCM-LOK 1 in.	Profile:	1 in. snap lock seam; Max.16 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip
	Material:	Min. 24ga ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or A792 AZ55 steel (F_y = min. 50 ksi); or Min. 0.032 in. ASTM B209, 3105 H22 aluminum coated with Fluropon® (F_y = min. 25 ksi); Shall conform with FBC Section 1507.4.3
 		
TCM-LOK 1.5 in.	Profile:	1.5 in. snap lock seam; Max. 15 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip
	Material:	Min. 24 ga. ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or A792 AZ55 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
 		

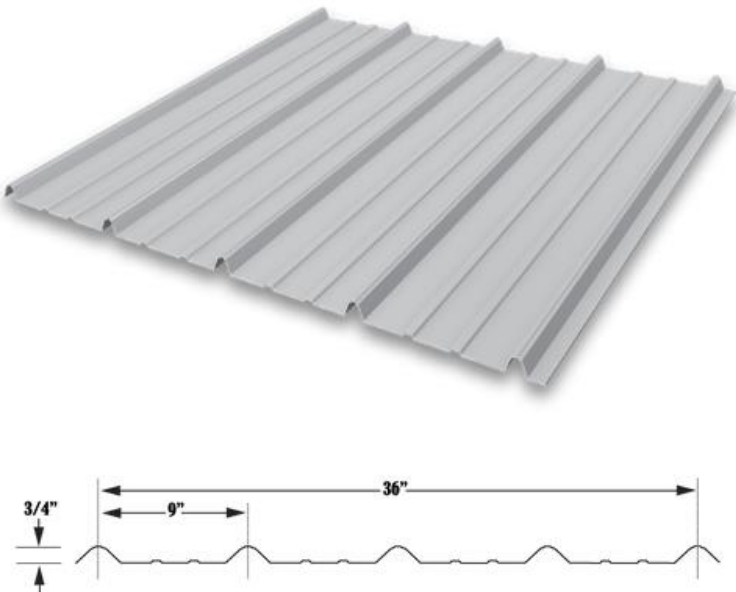


1.75 SS-LOK	Profile:	1.75 in. snap lock standing seam; Max. 16 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel
	Material:	Min. 0.040 in. ASTM B209, 3104 H22 aluminum coated with Fluropon® (F _y = min. 25 ksi); Shall conform with FBC Section 1507.4.3
		 
1.5 MS-LOK	Profile:	1.5 in. mechanical seam; Max. 16 in. coverage
	Description:	Non-structural, standing seam roof panel; 180° double lock mechanical seam
	Material:	Min. 24 ga. A792 AZ55 steel (F _y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		 



2 MS-LOK	Profile:	2 in. mechanical seam; Max. 18.75 in. coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 24 ga. A792 AZ50 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		
5V	Profile:	3/8 in. ribs at 12 in. o.c.; 24 in. coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 26 ga. ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or A792 AZ55 steel (F_y = min. 50 or 80 ksi); or Min. 0.032 in. ASTM B209, 3105 H22 aluminum coated with Fluropon® (F_y = min. 27 ksi); Shall conform with FBC Section 1507.4.3
		



Ultra Rib	Profile:	3/4 in. ribs at 9 in. o.c.; 36 in. coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 26 ga. ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluoropon® or WeatherXL or A792 AZ55 steel (F_y = min. 80 ksi); Shall conform with FBC Section 1507.4.3
		

LIMITATIONS

1. Fire classification is not within the scope of this evaluation.
2. The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
3. Roof slope shall be 2:12 or greater.
4. Reroofing shall be in accordance with Section 1521.
5. Installation of the evaluated products shall comply with this report, RAS 133, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
6. 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) High-Velocity Hurricane Zones (HVHZ) 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 12/17/2021.**

**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.

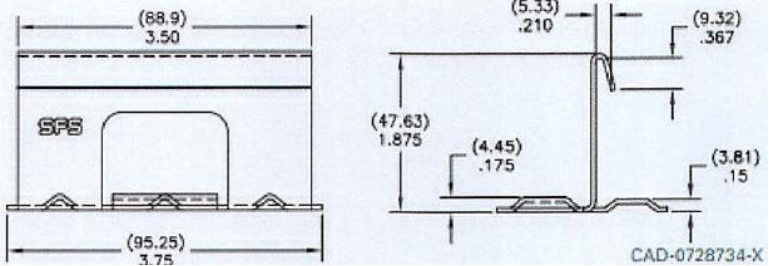
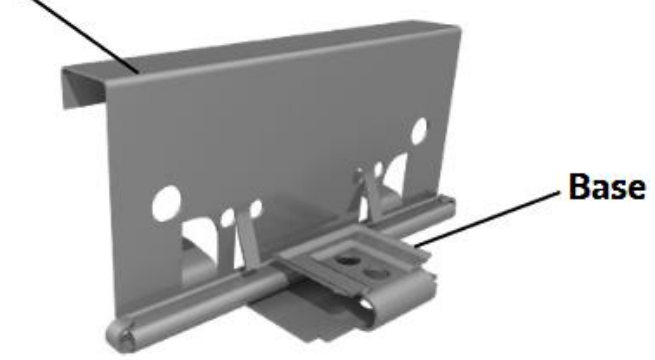
APPENDICES

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

APPENDIX A
INSTALLATION

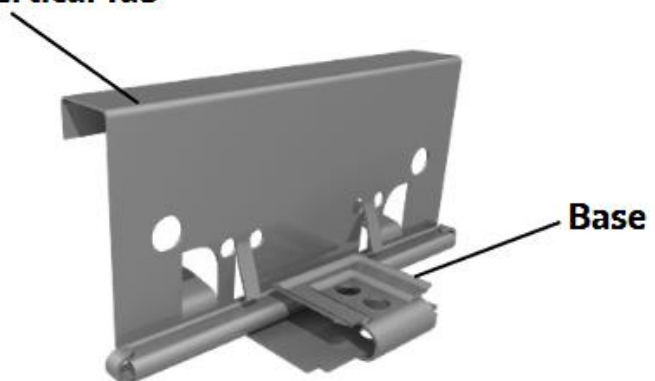
Note - Refer to the [APPROVED ROOF SYSTEMS](#) section of this report for specific installation details of a selected system.

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

Component	Product	Installation Detail
Fasteners	#10-12 Pancake Type A screw	Shall penetrate through the sheathing a minimum 3/8 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4.
	#10-9 PanclipSS MTW low profile head wood screw	
	#10-9 Panclip MTW low profile head wood screw	
	#9-15 Woodgrip HWH wood screw with sealing washer	
	#9-15 Evergrip HWH wood screw with sealing washer	
	#12-8 Woodgrip XG HWH wood screw with sealing washer	
Clips	1.75 in. SL Clip	<p>18 ga. SFS 1-3/4 in. Snap Lock Clip; 1.875 in. tall with 3.75 in. base</p> 
	1.5 in. ML Clip	<p>1-1/2 in. 1-piece expansion clip; 22 ga. vertical tab; 16 ga. base; 4.5 in. long</p> <p>Vertical Tab</p>  <p>Base</p>

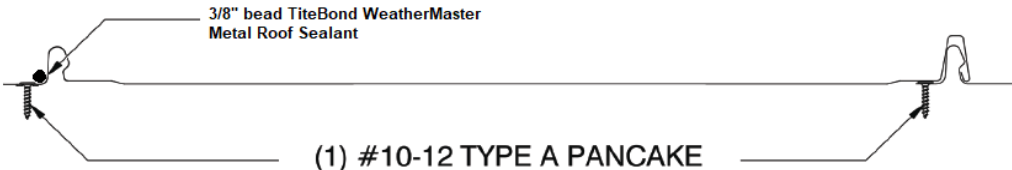
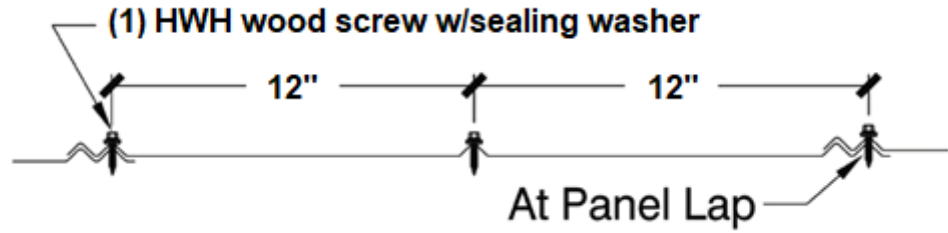
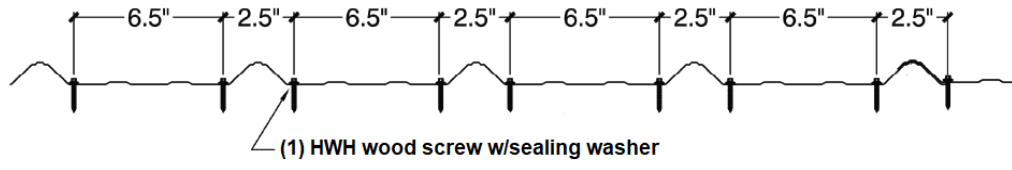


APPENDIX A

Component	Product	Installation Detail
Clips – Cont'd	2 in. ML Clip	<p>2 in. 1-piece expansion clip; 22 ga. vertical tab; 16 ga. base; 4.5 in. long</p> <p>Vertical Tab</p>  <p>Base</p>
Sealants	TiteBond Weathermaster Metal Roof Sealant	Shall be applied in 1/4 in.- 5/16 in. continuous beads on the male rib along the seam



APPENDIX A

Fastening Details	
Nomenclature	Attachment
TCM-LOK	 <p>3/8" bead TiteBond WeatherMaster Metal Roof Sealant</p> <p>(1) #10-12 TYPE A PANCAKE</p>
5V	 <p>(1) HWH wood screw w/sealing washer</p> <p>12" 12"</p> <p>At Panel Lap</p>
Ultra Rib	 <p>6.5" 2.5" 6.5" 2.5" 6.5" 2.5" 6.5" 2.5"</p> <p>(1) HWH wood screw w/sealing washer</p>

APPENDIX B
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 1523.4.
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. Underlayment shall be installed in accordance with FBC requirements. The minimum underlayment shall be ASTM D 226, Type II installed as described in FBC Section 1518.2.1 with nails and tin caps per 1517.5.
6. Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum 19/32 in. thick APA Span-Rated plywood sheathing or wood plank at maximum 24 in. span for new construction. Existing construction shall be the minimum plywood sheathing or wood plank thickness at maximum 24 in. span as stated in the approval tables on following pages. In no case shall the attachment be less than 8d ring shank nails spaced 6 in. o.c.

Roof System Numbers and Definitions	
LOK-W-#	TCM-LOK over Wood Deck (New or Existing)
SSLOK-W-#	1.75 SS-LOK over Wood Deck (New or Existing)
MSLOK-W-#	MS-LOK over Wood Deck (New or Existing)
5V-S-W-#	26 ga. 5V over Wood Deck (New or Existing)
5V-AI-W-#	0.032 AI 5V over Wood Deck (New or Existing)
RIB-W-#	Ultra Rib over Wood Deck (New or Existing)

Approved Systems for TCM-LOK over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	<i>MDP</i> (psf)
LOK-W-1	Min. 15/32 CDX plywood	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 0.032 AI TCM-LOK 1 in. 16 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c. Seam Sealant (see INSTALLATION for list of allowable products) applied to male rib.	-110
LOK-W-2	Min. 15/32 CDX plywood	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 24 ga. TCM-LOK 1.5 in. 15 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c. Seam Sealant (see INSTALLATION for list of allowable products) applied to male rib.	-122.5
LOK-W-3	Min. 15/32 CDX plywood	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 24 ga. TCM-LOK 1 in. 16 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c. Seam Sealant (see INSTALLATION for list of allowable products) applied to male rib.	-142.5

APPENDIX B

Approved Systems for Min. 0.040 Al 1.75 SS-LOK over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
SSLOK-W-1	Min. 15/32 CDX plywood	-	As required per FBC	Min. 0.040 Al 1.75 SS-LOK 16 in. coverage	1.75 in. SL Clips spaced 16 in. o.c. at the panel seam secured with two (2) #10-9 PanclipSS MTW low profile head screws per clip	-90
SSLOK-W-2	Min. 15/32 CDX plywood	-	As required per FBC	Min. 0.040 Al 1.75 SS-LOK 16 in. coverage	1.75 in. SL Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-9 PanclipSS MTW low profile head screws per clip	-120

Approved Systems for Min. 24 ga. MS-LOK over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
MSLOK-W-1	Min. 15/32 CDX plywood	-	As required per FBC	Min. 24 ga. 2 MS-LOK 18.75 in. coverage	2 in. ML Clips spaced 16 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Panclip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock	-116.25
MSLOK-W-2	Min. 15/32 CDX plywood	-	As required per FBC	Min. 24 ga. 2 MS-LOK 18.75 in. coverage	2 in. ML Clips spaced 8 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Panclip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock	-120
MSLOK-W-3	Min. 15/32 CDX plywood	-	As required per FBC	Min. 24 ga. 1.5 MS-LOK 16 in. coverage	1.5 in. ML Clips spaced 16 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Panclip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock	-120

Approved Systems for 26 ga. 5V Crimp over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
5V-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26 ga., Grade 80 5V Crimp 24 in. coverage	5V attachment with #12-8 Woodgrip XG screws with sealing washers spaced 16 in. o.c.	-86.25

APPENDIX B

Approved Systems for 26 ga. 5V Crimp over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
5V-S-W-2	Min. 15/32 CDX plywood	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 26 ga. , Grade 80 5V Crimp 24 in. coverage	5V attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.	-90
5V-S-W-3	Min. 15/32 CDX plywood	-	As required per FBC	Min. 26 ga., Grade 50 5V Crimp 24 in. coverage	5V attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.	-101.25
5V-S-W-4	Min. 15/32 CDX plywood	-	As required per FBC	Min. 26 ga., Grade 50 5V Crimp 24 in. coverage	5V attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 6 in. o.c.	-120
5V-S-W-5	Min. 15/32 CDX plywood	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 26 ga. , Grade 80 5V Crimp 24 in. coverage	5V attachment with #12-8 Woodgrip XG screws with sealing washers spaced 9 in. o.c.	-120
5V-S-W-6	Min. 15/32 CDX plywood	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 26 ga. , Grade 80 5V Crimp 24 in. coverage	5V attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 6 in. o.c.	-135

Approved Systems for 0.032 Al 5V Crimp over Wood Deck (New or Existing)							
System No.	Deck	Battens (Note 6)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
5V-AI-W-1	Min. 15/32 CDX plywood	-	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 0.032 Al 5V Crimp 24 in. coverage	5V attachment with #9-15 Evergrip screws with sealing washers spaced 9 in. o.c.	-127.5
5V-AI-W-2	Min. 15/32 CDX plywood	-	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 0.032 Al 5V Crimp 24 in. coverage	5V attachment with #9-15 Evergrip screws with sealing washers spaced 6 in. o.c.	-150

APPENDIX B

Approved Systems for Ultra Rib over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
RIB-W-1	Min. 15/32 CDX plywood	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 26 ga. Ultra Rib 36 in. coverage	<i>Ultra Rib</i> attachment with #12-8 Woodgrip XG screws spaced 24 in. o.c	-116.25
RIB-W-2	Min. 15/32 CDX plywood	OPTIONAL <i>Approved fire barrier</i>	As required per FBC	Min. 26 ga. Ultra Rib 36 in. coverage	<i>Ultra Rib</i> attachment with #9-15 Woodgrip screws spaced 12 in. o.c	-135

DESIGN WIND LOADS

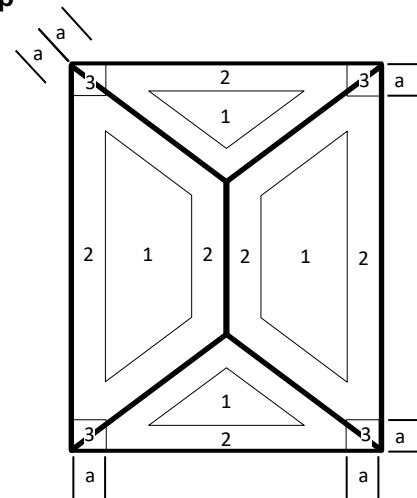
The following tables provide design wind loads for components and cladding in accordance with Section 1620 of the FBC and ASCE 7-16 under the following provisions:

1. Wind speeds for risk category I, II, III, and IV buildings shall be as defined in Section 1620 of the FBC.
2. Exposure C and D shall be as defined in section 1620 of the FBC.
3. Design wind load provided only for gable/hip roofs with roof slopes between 2:12 and 6.1:12
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. Design wind loads are calculated using $P_{asd} = 0.6P_{ult}$.
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

3	2	3	3	2	3	a
2	1	2	2	1	2	
3	2	3	3	2	3	a
a		a	a		a	

Hip



APPENDIX C

Gable/Hip Roofs in Exposure C in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12)								
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)					
			Risk Cat I	Risk Cat I	Risk Cat II	Risk Cat II	Risk Cat III, IV	Risk Cat III,IV
			156	165	170	175	180	186
Enclosed/ Partially Open	1	20	-62.3	-69.7	-74.0	-78.5	-83.0	-88.6
		25	-65.1	-72.8	-77.3	-81.9	-86.7	-92.6
		30	-67.9	-75.9	-80.6	-85.4	-90.4	-96.5
		40	-72.0	-80.6	-85.6	-90.7	-95.9	-102.4
		50	-75.5	-84.5	-89.7	-95.0	-100.5	-107.3
		60	-78.3	-87.6	-93.0	-98.5	-104.2	-111.3
	2	20	-90.9	-101.7	-108.0	-114.4	-121.1	-129.3
		25	-95.0	-106.3	-112.8	-119.5	-126.5	-135.0
		30	-99.0	-110.8	-117.6	-124.6	-131.8	-140.8
		40	-105.1	-117.6	-124.8	-132.2	-139.9	-149.4
		50	-110.1	-123.2	-130.8	-138.6	-146.6	-156.6
		60	-114.2	-127.7	-135.6	-143.7	-152.0	-162.3
	3	20	-108.1	-120.9	-128.4	-136.0	-143.9	-153.7
		25	-112.9	-126.3	-134.1	-142.1	-150.3	-160.5
		30	-117.7	-131.7	-139.8	-148.1	-156.7	-167.3
		40	-124.9	-139.7	-148.3	-157.2	-166.3	-177.6
		50	-130.9	-146.5	-155.5	-164.7	-174.3	-186.1
		60	-135.7	-151.8	-161.2	-170.8	-180.7	-192.9
Partially Enclosed	1	20	-72.9	-81.6	-86.6	-91.8	-97.1	-103.7
		25	-76.2	-85.2	-90.4	-95.8	-101.4	-108.3
		30	-79.4	-88.8	-94.3	-99.9	-105.7	-112.9
		40	-84.3	-94.3	-100.1	-106.0	-112.2	-119.8
		50	-88.3	-98.8	-104.9	-111.1	-117.6	-125.5
		60	-91.6	-102.4	-108.7	-115.2	-121.9	-130.2
	2	20	-101.5	-113.6	-120.6	-127.8	-135.2	-144.3
		25	-106.0	-118.6	-125.9	-133.4	-141.2	-150.7
		30	-110.5	-123.7	-131.3	-139.1	-147.2	-157.1
		40	-117.3	-131.2	-139.3	-147.6	-156.2	-166.8
		50	-123.0	-137.5	-146.0	-154.7	-163.7	-174.8
		60	-127.5	-142.6	-151.4	-160.4	-169.7	-181.2
	3	20	-118.7	-132.8	-140.9	-149.3	-158.0	-168.7
		25	-124.0	-138.7	-147.2	-156.0	-165.0	-176.2
		30	-129.2	-144.6	-153.5	-162.6	-172.0	-183.7
		40	-137.1	-153.4	-162.9	-172.6	-182.6	-195.0
		50	-143.7	-160.8	-170.7	-180.9	-191.4	-204.3
		60	-149.0	-166.7	-177.0	-187.5	-198.4	-211.8

APPENDIX C

Gable/Hip Roofs in Exposure D in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12)								
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)					
			Risk Cat I	Risk Cat I	Risk Cat II	Risk Cat II	Risk Cat III, IV	Risk Cat III,IV
			156	165	170	175	180	186
Enclosed/ Partially Open	1	20	-74.8	-83.7	-88.8	-94.1	-99.6	-106.3
		25	-77.6	-86.8	-92.1	-97.6	-103.3	-110.3
		30	-80.4	-89.9	-95.4	-101.1	-107.0	-114.2
		40	-84.5	-94.5	-100.4	-106.3	-112.5	-120.1
		50	-88.0	-98.4	-104.5	-110.7	-117.1	-125.1
		60	-90.7	-101.5	-107.8	-114.2	-120.8	-129.0
	2	20	-109.1	-122.1	-129.6	-137.3	-145.3	-155.1
		25	-113.2	-126.6	-134.4	-142.4	-150.7	-160.9
		30	-117.2	-131.1	-139.2	-147.5	-156.0	-166.6
		40	-123.3	-137.9	-146.4	-155.1	-164.1	-175.2
		50	-128.3	-143.6	-152.4	-161.5	-170.8	-182.4
		60	-132.4	-148.1	-157.2	-166.6	-176.2	-188.2
	3	20	-129.7	-145.1	-154.0	-163.2	-172.7	-184.4
		25	-134.5	-150.5	-159.7	-169.3	-179.1	-191.2
		30	-139.3	-155.9	-165.4	-175.3	-185.5	-198.1
		40	-146.5	-163.9	-174.0	-184.4	-195.1	-208.3
		50	-152.5	-170.6	-181.1	-192.0	-203.1	-216.8
		60	-157.3	-176.0	-186.8	-198.0	-209.5	-223.7
Partially Enclosed	1	20	-87.5	-97.9	-103.9	-110.1	-116.5	-124.4
		25	-90.7	-101.5	-107.8	-114.2	-120.8	-129.0
		30	-94.0	-105.1	-111.6	-118.3	-125.1	-133.6
		40	-98.8	-110.6	-117.4	-124.4	-131.6	-140.5
		50	-102.9	-115.1	-122.2	-129.5	-137.0	-146.3
		60	-106.1	-118.7	-126.0	-133.6	-141.3	-150.9
	2	20	-121.8	-136.3	-144.7	-153.3	-162.2	-173.2
		25	-126.3	-141.3	-150.0	-159.0	-168.2	-179.6
		30	-130.8	-146.4	-155.4	-164.7	-174.2	-186.0
		40	-137.6	-154.0	-163.4	-173.2	-183.2	-195.6
		50	-143.3	-160.3	-170.1	-180.3	-190.7	-203.6
		60	-147.8	-165.3	-175.5	-186.0	-196.7	-210.1
	3	20	-142.4	-159.3	-169.1	-179.2	-189.6	-202.5
		25	-147.7	-165.2	-175.4	-185.8	-196.6	-210.0
		30	-153.0	-171.1	-181.6	-192.5	-203.6	-217.4
		40	-160.9	-180.0	-191.0	-202.4	-214.2	-228.7
		50	-167.5	-187.3	-198.9	-210.7	-223.0	-238.1
		60	-172.7	-193.2	-205.1	-217.4	-230.0	-245.6