Registry No. 29824 17520 Edinburgh Dr Tampa, FL 33647 (813) 480-3421

Issued May 4, 2023

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

Manufacturing Locations: Trenton, 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

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) 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 UL 580 2006 UL 1897 2012 PRI Construction Materials Technologies (TST5878) 1930T0004 TAS 125 2003 UL 580 2006 UL 1897 2012 PRI Construction Materials Technologies (TST5878) 1930T0004 TAS 125 2003 UL 580 2006 UL 1897 2012 PRI Construction Materials Technologies (TST5878) 1930T0009 FM 4471 1992 PRI Construction Materials Technologies (TST5878) 1930T0001 ASTM B 117 2016	Entity	Report No.	Standard	Year
PRI Construction Materials Technologies (TST5878) PRI CO	PRI Construction Materials Technologies (TST5878)	945T0002	ASTM B 117	2016
PRI Construction Materials Technologies (TST5878)	PRI Construction Materials Technologies (TST5878)	945T0004	ASTM G 155	2013
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			TAS 110	2000
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TAS 110 2000				
	PRI Construction Materials Technologies (TST5878)	1930T0013		
UL 580 2006				
UL 1897 2012				-
	PRI Construction Materials Technologies (TST5878)	1930T0015		
UL 1897 2012			UL 1897	2012

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Entity PRI Construction Materials Technologies (TST5878)	Report No. 1930T0016	Standard TAS 125 UL 580	<u>Year</u> 2003 2006
PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	1930T0017 1930T0018	UL 1897 ASTM E 1592 TAS 125 UL 580_	2012 2005(2012) 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0019	UL 1897 UL 580 UL 1897	2012 2006 2012
PRI Construction Materials Technologies (TST5878)	1930T0020	TAS 125 UL 580	2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0026	UL 1897 TAS 125 UL 580 UL 1897	2012 2003 2006 2012
PRI Construction Materials Technologies (TST5878)	1930T0027	TAS 125 UL 580	2003 2006
PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	1930T0028 1930T0029	UL 1897 ASTM C 794 TAS 125 UL 580	2012 2001 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0031	UL 1897 TAS 125 UL 580	2012 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0032	UL 1897 TAS 125 UL 580	2012 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0034.1	UL 1897 TAS 125 UL 580	2012 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0035	UL 1897 UL 580 UL 1897	2012 2006 2012
PRI Construction Materials Technologies (TST5878)	1930T0036.1	TAS 125 UL 580	2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0037.1	UL 1897 TAS 125 UL 580	2012 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0038	UL 1897 TAS 125 UL 580	2012 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0039.2	UL 1897 TAS 125 UL 580	2012 2003 2006
PRI Construction Materials Technologies (TST5878)	1930T0040	UL 1897 TAS 125 UL 580	2012 2003 2006
PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	1930T0042 1930T0045	UL 1897 FM 4471 UL 580 UL 1897	2012 1992 2006 2012

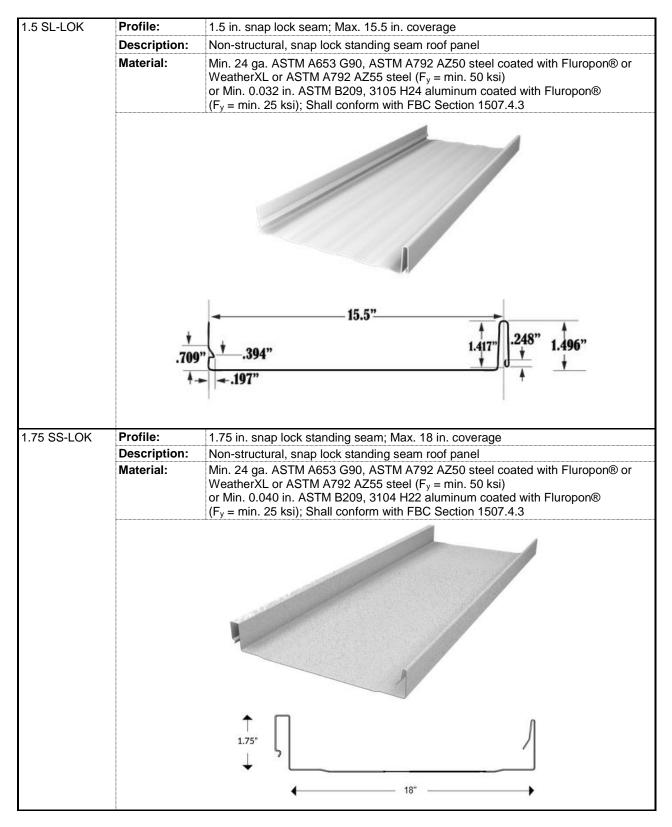
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PRODUCT DESCRIPTION

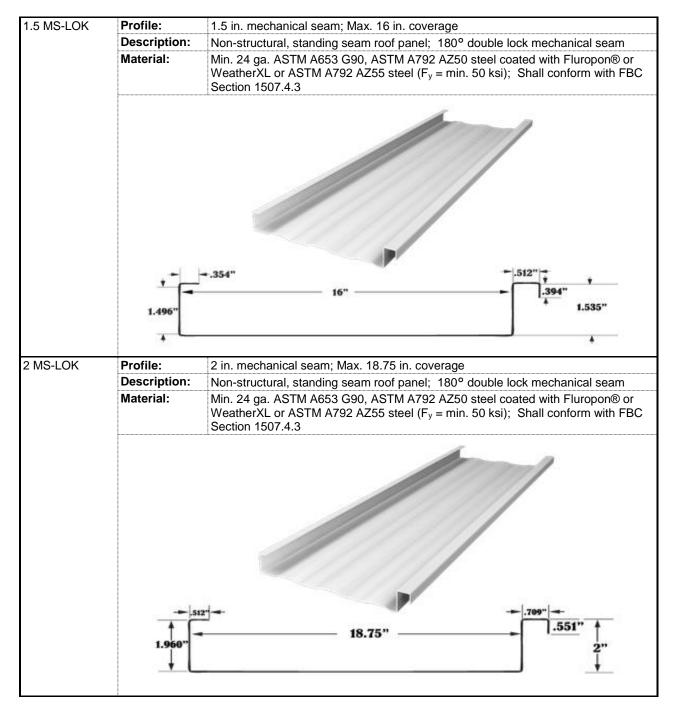
	Profile:	1 in. snap lock seam; Max.16 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip
	Material:	Min. 24 ga. ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or Min. 26 ga. ASTM A792 AZ55 steel (F_y = min. 50 ksi) or 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 A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXLor ASTM A792 AZ55 steel ($F_y = min. 50 ksi$); Shall conform with FBC Section 1507.4.3





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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 ASTM 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
		3/8"
PBR	Profile:	1-1/4 in. ribs at 12 in. o.c.; 36 in. coverage
	Description: Material:	Non-structural, through fastened roof panel Min. 26 ga. ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel (F_y = min. 80 ksi); Shall conform with FBC Section 1507.4.3
	1 1/4" <u>†</u>	36"



Ultra Rib	Profile:	3/4 in. ribs at 9 in. o.c.; 36 in. coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 29 ga. ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel (F_y = min. 80 ksi); Shall conform with FBC Section 1507.4.3
		3/4" 9" 36"



LIMITATIONS

- This report is not for use in the HVHZ.
- 2. Fire classification is not within the scope of this evaluation.
- 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.
- 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 5/4/2023.

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 (4 pages)
- 2) APPENDIX B Approved Roof Systems (8 pages)
- 3) APPENDIX C Design Wind Loads (4 pages)

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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 #10-9 PanclipSS MTW low profile head wood screw #10-9 Panclip 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	Shall penetrate through the sheathing a minimum 3/8 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4. Shall penetrate through the top rib of the steel deck a minimum 3/4 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4.				
	#14-13 PANCLIP SD-L low profile head self- drilling screw	Shall penetrate through the top rib of the steel deck a minimum 3/4 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4.				
Bearing Plate	Universal Bearing Plate	4" x 5", 20ga. galvanized steel bearing plate from Direct Metals, Inc.				
Clips	1.5 in. DM SL Clip	24 ga. Direct Metals Inc Snaplock HD 450HD Clip, 1-1/4" – 1-1/2" Utility Snaplock Clip, 1.3 in. tall with 3 in, base				
	1.5 in. SL Continuous Clip	24 ga. ASTM A792 AZ55 or 0.032" ASTM B209, 3105 H24 AI; 1.24 in. tall with 1.1 in, base, Min. 10 ft. length 0.38" 9.65 mm 0.78" 19.85 mm 1.10" 27.94 mm				



APPENDIX A

Component	Product	Installation Detail
		18 ga. SFS 1-3/4 in. Snap Lock Clip; 1.875 in. tall with 3.75 in. base
	1.75 in. SFS SL Clip	(88.9) 3.50 (47.63) 1.875 (4.45) .175 (4.45) .15 (95.25) 3.75
		18 ga. Direct Metals Inc 1-3/4 in. Snap Lock Clip; 1-7/8 in. tall with 3-1/2 in. base
Clips – Cont'd	1.75 in. DM SL Clip	1-7/8" -2 1/8"- 3 1/2"
		1-1/2 in. 1-piece expansion clip; 22 ga.vertical tab; 16 ga. base; 4.5 in. long
	1.5 in. ML Clip	Vertical Tab Base



APPENDIX A

Component	Product	Installation Detail
Clips – Cont'd	2 in. ML Clip	2i n. 1-piece expansion clip; 22 ga.vertical tab; 16 ga. base; 4.5 in. long Vertical Tab Base
Seam Sealant	TiteBond Weathermaster Metal Roof Sealant Geocel 2300	Shall be applied in 1/4 in 5/16 in. continuous beads on the male rib along the seam
	Novaflex Metal Roof Sealant	



APPENDIX A

	Fastening Details
Nomenclature	Attachment
TCM-LOK	3/8" bead TiteBond WeatherMaster Metal Roof Sealant (1) #10-12 TYPE A PANCAKE
5V	(1) HWH wood screw w/sealing washer 12" 12"
	At Panel Lap
PBR	
Ultra Rib	6.5"
Ultra Rib 2	#9-15 x 2" WOODGRIP W/ SEALING WASHER





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, Steel Deck shall be designed by others in accordance with FBC requirements and shall be minimum 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC and shall be attached to structural supports spaced maximum 5ft o.c. Panel seams shall be installed perpendicular to the steel deck ribs.
- 6. 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.
- 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 may be secured in place prior to fastening the roof panels.
- 8. For metal roofing installed over open framing, rational analysis shall be conducted by a qualified design professional in accordance with Section 2210.1.1.2 and Chapter 16. Maximum Design Pressures listed below are established based on uniform static loading in accordance with Section 1504.3.2 and ASTM E 1592.

	Roof System Numbers and Definitions				
L1-AI-W-#	Min. 0.032 AI TCM-LOK 1 in. over Wood Deck (New or Existing)				
<u>L1-S-W-#</u>	Min. 26ga. steel TCM-LOK 1 in. over Wood Deck (New or Existing)				
L1.5-S-W-#	Min. 24ga. steel TCM-LOK 1.5 in. over Wood Deck (New or Existing)				
SL-Al-W-#	Min. 0.032 AI 1.5 SL-LOK over Wood Deck (New or Existing)				
<u>SL-S-W-#</u>	Min. 24ga. steel 1.5 SL-LOK over Wood Deck (New or Existing)				
SS-AI-W-#	Min. 0.040 AI 1.75 SS-LOK over Wood Deck (New or Existing)				
SS-S-W-#	Min. 24ga. steel 1.75 SS-LOK over Wood Deck (New or Existing)				
SS-S-S-#	Min. 24ga. steel 1.75 SS-LOK over Steel Deck (New or Existing)				
1.5MS-W-#	Min. 24ga. steel 1.5 MS-LOK over Wood Deck (New or Existing)				
2MS-W-#	Min. 24ga. steel 2 MS-LOK over Wood Deck (New or Existing)				
2MS-S-#	Min. 24ga. steel 2 MS-LOK over Steel Deck (New or Existing)				
<u>5V-AI-W-#</u>	Min. 0.032 Al 5V over Wood Deck (New or Existing)				
<u>5V-S-W-#</u>	Min. 26ga. steel 5V over Wood Deck (New or Existing)				
PBR-W-#	Min. 26ga. steel PBR over Wood Deck (New or Existing)				
RIB-W-#	Min. 29ga steel Ultra Rib over Wood Deck (New or Existing)				
<u>RIB-#</u>	Min. 29ga. steel Ultra Rib over Open Framing (New or Existing)				

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	Approved Systems for Min. 0.032 Al 1 in. TCM-LOK over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)	
L1-Al-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 AI TCM-LOK 1 in. Max. 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	

	Approved Systems for Min. 26ga. steel TCM-LOK 1 in. over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)	
L1-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel TCM-LOK 1 in. Max. 16 in. coverage	#10-12 Pancake Type A screws installed 5-1/4 in. o.c. along the fastening strip into the pre-punched slots	-123.5	
L1-S-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel TCM-LOK 1 in. Max. 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	

	Approved Systems for Min. 24ga. steel TCM-LOK 1.5 in. over Wood Deck (New or Existing)									
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)				
L1.5-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel TCM-LOK 1.5 in. Max. 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				

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		Approve	ed Systems Min. 0.032	2 AI 1.5 SL-LOK over Woo	d Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
SL-Al-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 AI 1.5 SL-LOK Max. 15.5 in. coverage	0.032 Al 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-9 PanclipSS MTW low profile head wood screw; Female portion of snap-lock is then engaged over the continuous clip	-101
SL-Al-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 AI 1.5 SL-LOK Max. 15.5 in. coverage	0.032 Al 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-9 PanclipSS MTW low profile head wood screw; 3/8 in. wide, continuous bead of NovaFlex Metal Roof Sealant is applied to backside of continuous clip; Female portion of snap-lock is then engaged over the continuous clip	-108.5

		Approved S	Systems for Min. 24ga	a. steel 1.5 SL-LOK over Woo	od Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
SL-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	1.5 in. SL Clips spaced 12 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip	-75
SL-S-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	1.5 in. SL Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip	-90
SL-S-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	24 ga. 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-12 Pancake Type A screws; Female portion of snap-lock is then engaged over the continuous clip	-146

		Approved	Systems for Min. 0.04	0 Al 1.75 SS-LOK over Wood	d Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
SS-Al-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.040 Al 1.75 SS-LOK Max. 16 in. coverage	1.75 in. SFS 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

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		Approved	Systems for Min. 0.04	10 AI 1.75 SS-LOK over Woo	d Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
SS-Al-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.040 Al 1.75 SS-LOK Max. 16 in. coverage	1.75 in. SFS 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 S	ystems for Min. 24ga	. steel 1.75 SS-LOK over Wo	od Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
SS-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.75 SS-LOK Max. 18 in. coverage	1.75 in. DM SL Clips spaced 18 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip	-105

		Approved S	Systems for Min. 24	ga. steel 1.75 SS-LO	K over Steel Deck (Ne	w or Existing)	
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
SS-S-S-1	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 1.75 SS-LOK Max. 18 in. coverage	1.75 in. DM SL Clips and Universal Bearing Plates spaced 24 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip	-78.5

		Approved S	Systems for Min. 24ga	ı. steel 1.5 MS-LOK over Woo	od Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
1.5MS-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 MS-LOK Max. 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	-142.5

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		Approved S	Systems for Min. 24ga	. steel 1.5 MS-LOK over Woo	od Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
1.5MS-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 MS-LOK Max. 16 in. coverage	1.5 in. ML Clips spaced 6 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	-176

		Approved	Systems for Min. 24g	a. steel 2 MS-LOK over Woo	d Deck (New or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
2MS-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 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
2MS-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 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
2MS-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips spaced 6 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	-153.5

		Approved	Systems for Min. 2	4ga. steel 2 MS-LOK	over Steel Deck (New	or Existing)	
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
2MS-S-1	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips and Universal Bearing Plates spaced 24 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip; Panels mechanically seamed with 180° double lock	-112.25

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	Approved Systems for Min. 24ga. steel 2 MS-LOK over Steel Deck (New or Existing)										
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	MDP (psf)				
2MS-S-2	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips and Universal Bearing Plates spaced 6 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip; Panels mechanically seamed with 180° double lock	-168.5				

		Approve	d Systems for Min.	0.032 AI 5V Crimp o	ver Wood Deck (New o	r Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
5V-Al-W-1	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 5V Crimp Max. 24 in. coverage	5V attachment with #9-15 Evergrip screws with sealing washers spaced 9 in. o.c.	-127.5
5V-Al-W-2	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 5V Crimp Max. 24 in. coverage	5V attachment with #9-15 Evergrip screws with sealing washers spaced 6 in. o.c.	-150

		Approved	Systems for Min. 2	6ga. steel 5V Crimp	over Wood Deck (New	or Existing)	
System No.	Deck	Battens (Note 7)	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. 26ga. steel, Grade 50 5V Crimp Max. 24 in. coverage	5V attachment with #9-15 Woodgrip with sealing washers spaced 16 in. o.c.	-67.5
5V-S-W-2	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V attachment with #12-8 Woodgrip XG screws with sealing washers spaced 16 in. o.c.	-86.25

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		Approved	Systems for Min. 2	6ga. steel 5V Crimp	over Wood Deck (New	or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
5V-S-W-3	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 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-4	Min. 15/32 CDX plywood	1	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 50 5V Crimp Max. 24 in. coverage	5V attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.	-101.25
5V-S-W-5	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 50 5V Crimp Max. 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-6	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V attachment with #12-8 Woodgrip XG screws with sealing washers spaced 9 in. o.c.	-120
5V-S-W-7	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 6 in. o.c.	-135

		Approv	ed Systems for	Min. 26ga. steel P	BR over Wood Deck (Ne	w or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
PBR-W-1	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga.steel, Grade 80 PBR Max. 36 in. coverage	PBR attachment with #12-8 Woodgrip XG screws with sealing washers spaced 24 in. o.c.	-86
PBR-W-2	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga.steel, Grade 80 PBR Max. 36 in. coverage	PBR attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.	-153.5

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		Approved	Systems for Mi	n. 29ga steel Ultra	Rib over Wood Deck (Ne	ew or Existing)	
System No.	Deck	Battens (Note 7)	Fire Barrier Underlayment Roof Panel		Panel Attachment	MDP (psf)	
RIB-W-1	Min. 15/32 CDX plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment with #9-15 Woodgrip screws spaced 24 in. o.c	-67.5
RIB-W-2	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib attachment with #12-8 Woodgrip XG screws spaced 24 in. o.c	-116.25
RIB-W-3	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib attachment with #9-15 Woodgrip screws spaced 12 in. o.c	-135

	Approved Systems for Min. 29ga	ı. steel Ultra Rib over Open F	raming (New or Existing) – Note 8	
System No.	Battens	Roof Panel	Panel Attachment	MDP (psf)
RIB-1	No. 2 SYP 1x4 wood battens installed max. 24 in. o.c. with two (2) min. 3 in. x #9 wood screws placed at each batten and truss/rafter intersection. Roof trusses/rafters shall be spaced max. 24 in. o.c. and shall be 90 degrees to the battens.	Min. 29 ga. steel Ultra Rib Max. 36 in. coverage with Max. 2 in. overhang at eave	Ultra Rib attachment with #9-15 x 1.5 in. Woodgrip screws installed into each batten	+45 -105

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DESIGN WIND LOADS

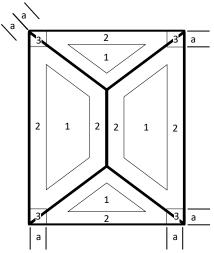
The following tables provide design wind loads for components and cladding in accordance with Section 1609 of the FBC and ASCE 7-16 under the following provisions:

- 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

_			_			
3	2	3	3	2	3	a
2	1	2	2	1	2	
3	2	3	3	2	3	а
а		а	а		а	

Hip



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APPENDIX C

			Gable/l	Hip Roofs in Ex	posure B (Roc	of slope betwee	n 2:12 and 12	2:12)			
		Mean	3 43.67.		. pocu o _ (o.		c Wind Speed (
Building Type	Zone	Roof Height (ft)	120	130	140	150	160	170	180	190	200
		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
	1	30	-28.7	-33.7	-39.1	-44.8	-51.0	-57.6	-64.6	-71.9	-79.7
	1	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
		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
Enclosed/	0	30	-41.9	-49.1	-57.0	-65.4	-74.4	-84.0	-94.2	-104.9	-116.3
Partially Open	2	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
		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
	0	30	-49.8	-58.4	-67.7	-77.7	-88.4	-99.8	-111.9	-124.7	-138.2
	3	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
		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
	1	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
		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
Partially		30	-46.7	-54.8	-63.6	-73.0	-83.1	-93.8	-105.1	-117.1	-129.8
Enclosed	2	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
		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
	3	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

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APPENDIX C

			Gable/	Hip Roofs in Ex	posure C (Roc	of slope betwee	en 2:12 and 12	2:12)			
		Mean			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		c Wind Speed (
Building Type	Zone	Roof Height (ft)	120	130	140	150	160	170	180	190	200
		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
	1	30	-40.2	-47.1	-54.7	-62.8	-71.4	-80.6	-90.4	-100.7	-111.6
	1	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
		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
Enclosed/	2	30	-58.6	-68.8	-79.8	-91.6	-104.2	-117.6	-131.8	-146.9	-162.8
Partially Open	2	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
		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
	0	30	-69.7	-81.7	-94.8	-108.8	-123.8	-139.8	-156.7	-174.6	-193.5
	3	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	-223.1
	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
		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
Partially		30	-65.4	-76.8	-89.0	-102.2	-116.3	-131.3	-147.2	-164.0	-181.7
Enclosed	2	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
		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
	3	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

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APPENDIX C

			Gable/	Hip Roofs in Ex	posure D (Roc	of slope betwee	en 2:12 and 12	2:12)			
		Mean	C a.5.67				c Wind Speed (
Building Type	Zone	Roof Height (ft)	120	130	140	150	160	170	180	190	200
		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
	4	30	-47.5	-55.8	-64.7	-74.3	-84.5	-95.4	-107.0	-119.2	-132.1
	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
		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
Enclosed/	2	30	-69.4	-81.4	-94.4	-108.4	-123.3	-139.2	-156.0	-173.9	-192.6
Partially Open	2	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
		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
	0	30	-82.4	-96.8	-112.2	-128.8	-146.6	-165.4	-185.5	-206.7	-229.0
	3	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
	,	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
	1	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
		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
Partially	0	30	-77.4	-90.9	-105.4	-121.0	-137.6	-155.4	-174.2	-194.1	-215.1
Enclosed	2	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
		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
	3	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

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