CREEK
TECHNICAL SERVICES, LLC

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EVALUATION REPORT **FLORIDA BUILDING CODE, 8TH EDITION (2023)**

Issued October 1, 2023

Manufacturer: DREXEL METALS, INC.
1234 Gardiner Lane
Louisville, KY 40213
(502) 716-7143
www.drexmet.com

Manufacturing: Port St. Lucie, FL

Quality Assurance: Architectural Testing, Inc., An Intertek Company (QUA1844)

SCOPE

Category: Roofing
Subcategory: Metal Roofing
Code Edition: Florida Building Code, 8th Edition (2023)
Code Sections: 1504.3
Properties: Wind Resistance

REFERENCES

Entity	Report No.	Standard	Year
Architectural Testing (TST1558)	D9330.03-450-18	TAS 125	2003
Architectural Testing (TST1558)	C8008.01-450-18	TAS 125	2003
Architectural Testing (TST1558)	C8009.01-450-18	TAS 125	2003
Architectural Testing (TST1558)	B3862.01-450-18	TAS 125	2003
Architectural Testing (TST1558)	D0841.01-450-18	TAS 125	2003
Architectural Testing (TST1558)	B8437.02-450-18	TAS 125	2003
Architectural Testing (TST1558)	B8437.01-450-18	TAS 125	2003
Architectural Testing (TST1558)	B8438.02-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	F8542.01-450-44	UL 580	2006
		UL 1897	2015
Architectural Testing, Inc (an Intertek Company) (TST1527)	G1899.01-450-18	UL 580	2006
		UL 1897	2015
Architectural Testing, Inc (an Intertek Company) (TST1527)	F0755.01-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	F9156.01-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	F9156.02-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	0412-1012-06	TAS 125	2003
Architectural Testing (TST1558)	C6413.02-450-18	TAS 125	2003
Architectural Testing (TST1558)	D6207-01-450-18	TAS 125	2003
Architectural Testing (TST1558)	0412-0621-07	TAS 125	2003
Architectural Testing (TST1558)	C6413.01-450-18	TAS 125	2003
Force Engineering & Testing (TST5328)	72-019T0T-07	UL 580	2006
		UL 1897	2015
Force Engineering & Testing (TST5328)	72-0314T-06A-C	UL 580	2006
		UL 1897	2015
Force Engineering & Testing (TST5328)	72-0313T-06A-C	UL 580	2006
		UL 1897	2015
Hurricane Test Laboratory (TST1527)	0412-1203.07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0412-1017-05	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0412-01012-06	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0412-0305-07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0412-0306-06	TAS 125	2003
UL LLC (TST9628)	02NK11243	UL 580	2006
		UL 1897	2015
UL LLC (TST9628)	03NB13142	UL 580	2006
		UL 1897	2015

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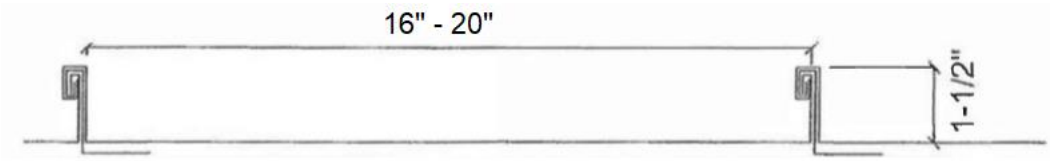
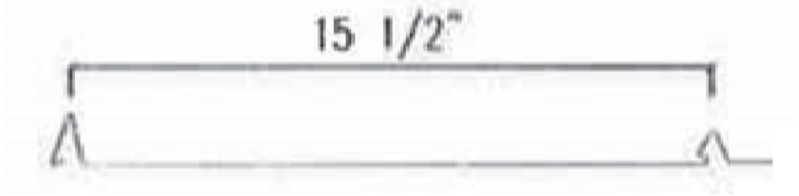
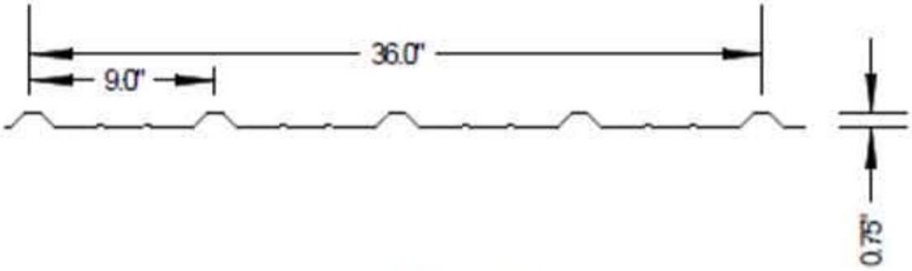
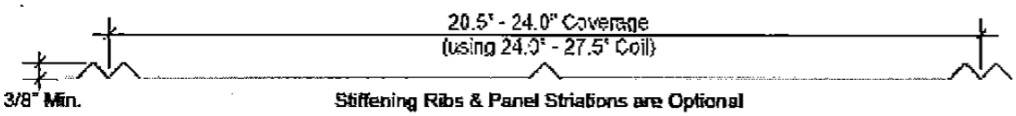
PRODUCT DESCRIPTION

1.5" Mechanical Lock	**Profile:**	1.5-inch mechanical seam; Max.20-inch coverage
	Description:	Non-structural, min. 180° mechanical lock standing seam roof panel;
	Material:	Min.16 oz/ft^2 ASTM B370 copper; Shall conform with FBC Section 1507.4.3
		Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 24 ksi); Shall conform with FBC Section 1507.4.3
		
1.5" Nail Strip	**Profile:**	1.5-inch snap lock seam; Max.15.5-inch coverage
	Description:	Non-structural, snap lock standing seam roof panel; slotted nail strip;
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		
PBR and Econ Line PBR	**Profile:**	¾-inch rib; Max. 36-inch coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 26ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 (F_y = min. 40 ksi); Shall conform with FBC Section 1507.4.3
		
5-V-Crimp	**Profile:**	⅜-inch ribs; Min. 20.5-inch, Max. 24-inch coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 23 ksi); Shall conform with FBC Section 1507.4.3
		

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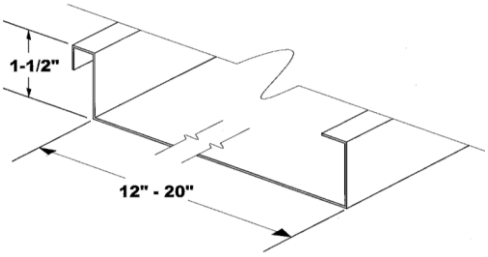
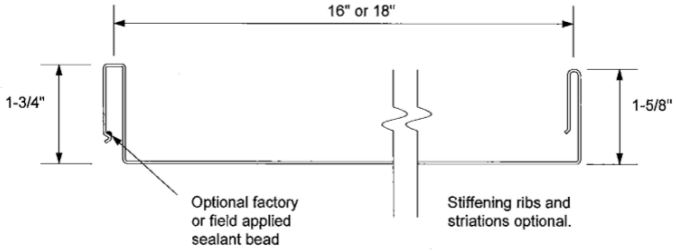
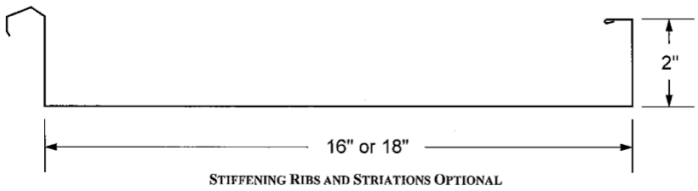
PAC-150	**Profile:**	1.5-inch mechanical seam; Max.20-inch coverage
	Description:	Non-structural, min. 90° mechanical lock standing seam roof panel;
	Material:	Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 22 ksi); Shall conform with FBC Section 1507.4.3
		Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 55 ksi); Shall conform with FBC Section 1507.4.3
		
Snap-Clad	**Profile:**	1.75-inch snap lock seam; Max. 18-inch coverage
	Description:	Non-structural, snap lock standing seam roof panel;
	Material:	Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 25 ksi); Shall conform with FBC Section 1507.4.3
		
Tite-Loc Plus	**Profile:**	2-inch mechanical seam; Max.18-inch coverage
	Description:	Non-structural, min. 180° mechanical lock standing seam roof panel;
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 60 ksi); Shall conform with FBC Section 1507.4.3
		Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 20 ksi); Shall conform with FBC Section 1507.4.3
		

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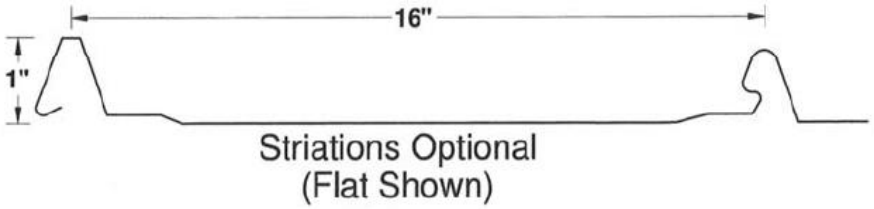
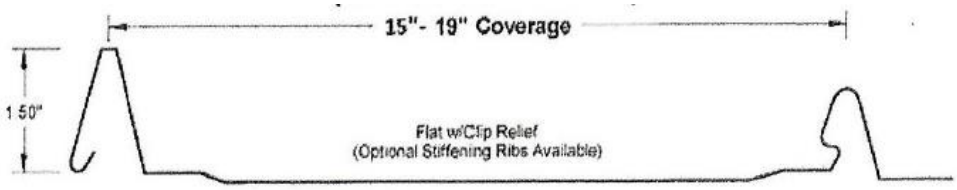
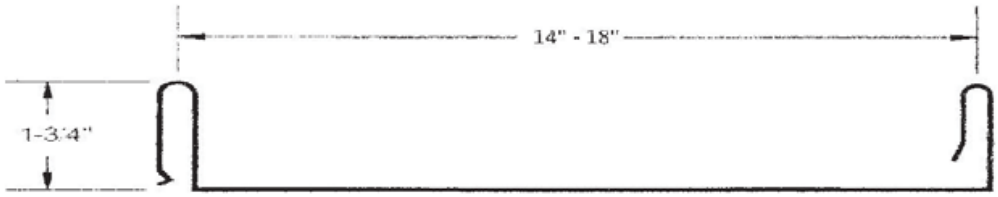
Econo Line 1" Clipless	**Profile:**	1-inch snap lock seam; Max.16-inch coverage
	Description:	Non-structural, snap lock standing seam roof panel; slotted nail strip;
	Material:	Min. 26 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 40 ksi); Shall conform with FBC Section 1507.4.3
		Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 24 ksi); Shall conform with FBC Section 1507.4.3
		
Jacksonville Beach Series 1.5" Clipless	**Profile:**	1.5-inch snap lock seam; Max.19-inch coverage
	Description:	Non-structural, snap lock standing seam roof panel; slotted nail strip;
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 21 ksi); Shall conform with FBC Section 1507.4.3
		
Miami Series 1.75 Snap Lock	**Profile:**	1.75-inch snap lock seam; Max. 18-inch coverage
	Description:	Non-structural, snap lock standing seam roof panel;
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 24 ksi); Shall conform with FBC Section 1507.4.3
		
Palm Beach Series 1.5 Mechanical Seam	**Profile:**	1.5-inch mechanical seam; Max.20-inch coverage
	Description:	Non-structural, min. 90° mechanical lock standing seam roof panel;
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F_y = min. 24 ksi); Shall conform with FBC Section 1507.4.3

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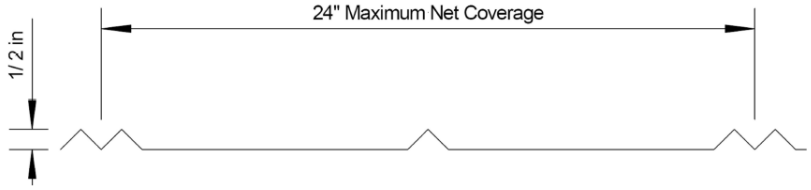
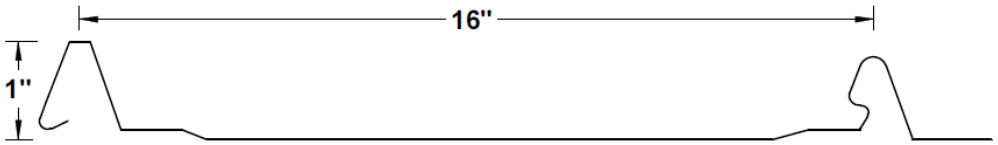
Key West Series 5-V Crimp	**Profile:**	½-inch ribs; Max. 24-inch coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 26 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		
Stuart Line Series 1" Nail Strip	**Profile:**	1-inch snap lock seam; Max.16-inch coverage
	Description:	Non-structural, snap lock standing seam roof panel; slotted nail strip;
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F_y = min. 50 ksi); Shall conform with FBC Section 1507.4.3
		

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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 and the roof deck 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 FBC 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, 8th Edition (2023) 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 10/1/2023.

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

Digitally signed by Zachary R. Priest

2023.10.01 14:03:00 -04'00'

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 (2 pages)
2) APPENDIX B – Approved Roof Systems (7 pages)
3) APPENDIX C – Design Wind Loads (4 pages)

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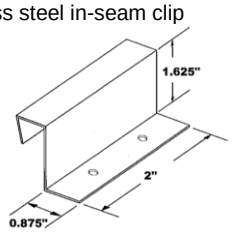
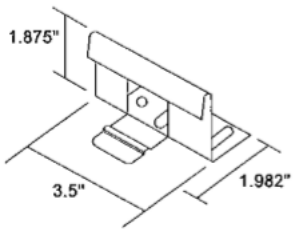
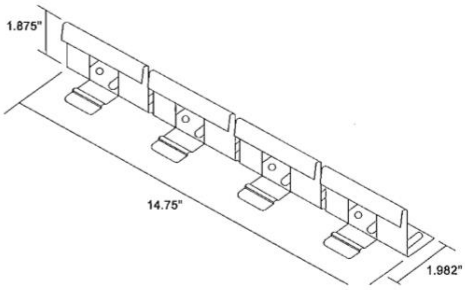
INSTALLATION

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	#9-15 HWH wood screw with sealing washer	Shall penetrate through the sheathing a minimum 3/8 in. Must be corrosion resistant in accordance with FBC section 1507.4.4.
	#10 HWH wood screw with sealing washer	
	#10 PH wood screw	
	#10-11 Eclipse Head wood screw with sealing washer	
	#10-13 PH wood screw	
	#12-11 PH wood screw	
	#14 WoodZAC® HWH screws	
	#14-13 TH wood screw	
	#14 PH self-drilling screw	Shall penetrate through the top rib of the steel deck a minimum 3/4 in. Must be corrosion resistant in accordance with FBC section 1507.4.4.
Clips	1500SC 1.5-inch Sliding Clip	26 ga. top with 22 ga. base galvanized steel, in-seam clip
	24 ga. PAC-150 Clip	24 ga. galvanized or stainless steel in-seam clip 
	20 ga. Snap-Clad Clip	20 ga. galvanized or stainless steel in-seam clip 
	20 ga. Snap-Clad Continuous Clip	20 ga. galvanized or stainless steel in-seam clip 

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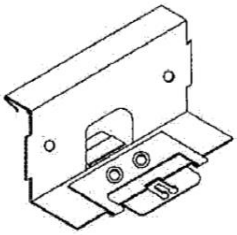
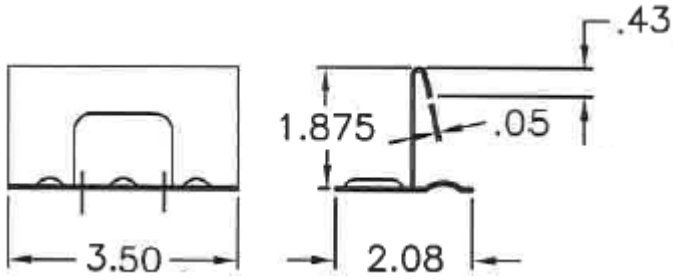
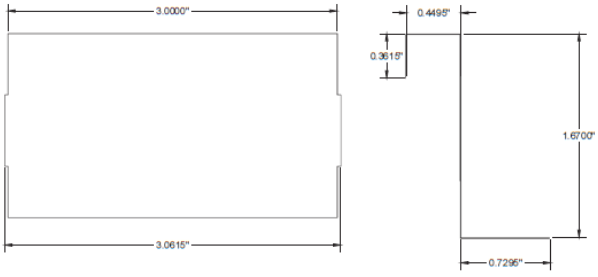
APPENDIX A

Component	Product	Installation Detail
Clips	Tite-Loc Plus Clip	18 ga. base/22 ga. tab galvanized or stainless steel in-seam clip 
	Miami Series 1.75 Snap Lock Clip	0.050-inch galvanized steel in-seam clip 
	Palm Beach Series 1.5 Mechanical Seam Clip	24 ga. galvanized steel in-seam clips 
Sealants	Bostik Chem Calk 915	Shall be applied in ⅛-inch wide continuous beads along the seam
	Bostik 70-05A	

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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. The panel thicknesses stated in the tables below are the minimum thicknesses required.
6. Steel Deck shall be designed by others in accordance with FBC requirements and shall be minimum 22 ga (F_y = min.40 ksi) Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC.
7. Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum 15/32-inch thick 32/16 span rated, 4-ply, CDX plywood sheathing at maximum 24-inch span.

Roof System Numbers and Definitions	
1.5ML-W#	1.5 Mechanical Lock over Wood Deck (New or Existing)
1.5NS-W#	1.5 Nail Strip over WoodDeck (New or Existing)
PBR-W#	PBR or Econo Line PBR over Wood Deck (New or Existing)
5VC-W#	5-V-Crimp over Wood Deck (New or Existing)
PC150-W#	PAC-150 over Wood Deck (new or Existing)
SC-W#	Snap-Clad over Wood Deck (New or Existing)
TLP-W#	Tite-Loc Plus over Wood Deck (New or Existing)
TLP-S#	Tite-Loc Plus over Steel Deck (New or Existing)
EL1C-W#	Econo Line 1" Clipless over Wood Deck (New or Existing)
J1.5C-W#	Johnsonville Beach Series 1.5" Clipless over Wood Deck (New or Existing)
M1.75-W#	Miami Series 1.75 Snap Lock over Wood Deck (New or Existing)
P1.5M-W#	Palm Beach Series 1.5 Mechanical Seam over Wood Deck (New or Existing)
K5VC-W#	Key West Series 5-V Crimp over Wood Deck (New or Existing)
S1NS-W#	Stuart Line Series 1" Nail Strip over Wood Deck (New or Existing)

Approved Systems for 1.5 Mechanical Lock over Wood Deck (New or Existing)

System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
1.5ML-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. 1.5 Mechanical Lock Max. 16-inch wide	1500SC 1.5-inch Sliding Clip with two (2) #12-11 PH wood screws spaced 24-inch o.c.	**-59.75**
1.5ML-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. 1.5 Mechanical Lock Max. 16-inch wide	1500SC 1.5-inch Sliding Clip with two (2) #12-11 PH wood screws spaced 6-inch o.c.	**-123.5**

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Approved Systems for 1.5 Nail Strip over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
1.5NS-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. 1.5 Nail Strip Max. 15.5-inch wide	One (1) #12-11 PH wood screws spaced 11-inch o.c. along the nail strip	**-78.5**

Approved Systems for PBR or Econo Line PBR over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
PBR-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	26 ga. PBR Max. 36-inch wide	One (1) #9-15 HWH wood screw with sealing washer placed 1.5-inches from each side of panel lap and one (1) #9-15 HWH wood screw and sealing washer placed 1.5-inches to one side of the each intermediate rib (5 fasteners per panel; 6”-9”-9”-9”-3” pattern); Fastener rows spaced 24-inch o.c.	**-76.75**

Approved Systems for 5-V-Crimp over Wood Deck (New or Existing) – Install in compliance with PAC Contractors Association’s Installation Details						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
5VC-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al 5-V-Crimp Max. 24-inch wide	One (1) #10 HWH wood screw with sealing washer placed through the apex of the inside rib at the panel lap; Fastener rows spaced 16-inch o.c.	**-74.75**
5VC-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al 5-V-Crimp Max. 24-inch wide	One (1) #10 HWH wood screw with sealing washer placed through the apex of the inside rib at the panel lap; Fastener rows spaced 8-inch o.c.	**-176**

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APPENDIX B

Approved Systems for PAC-150 over Wood Deck (New or Existing) – Install in compliance with PAC Contractors Association's Installation Details						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
PC150-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al PAC-150 Max. 20-inch wide 90° seam	24 ga. PAC-150 Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	**-69.25**
PC150-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al PAC-150 Max. 20-inch wide 90° seam	24 ga. PAC-150 Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	**-69.25**
PC150-W3	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al PAC-150 Max. 20-inch wide 90° seam	24 ga. PAC-150 Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	**-99.25**
PC150-W4	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. PAC-150 Max. 20-inch wide 90° seam	24 ga. PAC-150 Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	**-114.25**
PC150-W5	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. PAC-150 Max. 20-inch wide 180° seam	24 ga. PAC-150 Clip with two (2) #10 PH wood screws spaced 12-inch o.c.	**-136.75**
PC150-W6	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al PAC-150 Max. 20-inch wide 180° seam	24 ga. PAC-150 Clip with two (2) #10 PH wood screws spaced 12-inch o.c.	**-166.75**

Approved Systems for Snap-Clad over Wood Deck (New or Existing) – Install in compliance with PAC Contractors Association's Installation Details						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
SC-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al Snap-Clad Max. 18-inch wide	24 ga. Snap-Clad Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	**-86**
SC-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al Snap-Clad Max. 18-inch wide	24 ga. Snap-Clad Continuous Clip with eight (8) #10 PH wood screws per clip installed end-to-end to form a continuous clip along the seam	**-151.75**

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Approved Systems for Tite-Loc Plus over Wood Deck (New or Existing) – Install in compliance with PAC Contractors Association's Installation Details						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
TLP-W1	Min. 19/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. Tite-Loc Plus Max. 18-inch wide	Tite-Loc Plus Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	**-106.75**
TLP-W2	Min. 19/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al Tite-Loc Plus Max. 18-inch wide	Tite-Loc Plus Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	**-121.75**
TLP-W3	Min. 19/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al Tite-Loc Plus Max. 18-inch wide	Tite-Loc Plus Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	**-174.25**
TLP-W4	Min. 19/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. Tite-Loc Plus Max. 18-inch wide	Tite-Loc Plus Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	**-196.75**

Approved Systems for Tite-Loc Plus over Steel Deck (New or Existing) – Install in compliance with PAC Contractors Association's Installation Details							
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
TLP-S1	Min. 22 ga. steel deck	As required	Min. 3/4-inch *Approved* polyisocyanurate insulation board	As required per FBC	24 ga. Tite-Loc Plus Max. 18-inch wide	Tite-Loc Plus Clip with two (2) #14 PH self-drilling screws spaced 24-inch o.c.	**-106.75**
TLP-S2	Min. 22 ga. steel deck	As required	Min. 3/4-inch *Approved* polyisocyanurate insulation board	As required per FBC	24 ga. Tite-Loc Plus Max. 18-inch wide	Tite-Loc Plus Clip with two (2) #14 PH self-drilling screws spaced 24-inch o.c.	**-196.75**

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APPENDIX B

Approved Systems for Econo Line 1" Clipless over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier/ Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
EL1C-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	26 ga, Econo Line 1" Clipless Max. 16-inch coverage	One (1) #10 PH wood screws spaced 6-inch o.c. along the nail strip	**-71**
EL1C-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al Econo Line 1" Clipless Max. 16-inch coverage	One (1) #10 PH wood screws spaced 6-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement;	**-78.5**

Approved Systems for Jacksonville Beach Series 1.5" Clipless over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier/ Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
J1.5C-W1	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	.032 Al Jacksonville Beach Series 1.5" Clipless Max. 19-inch coverage	One (1) #10 PH wood screws spaced 6-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement;	**-76.75**
J1.5C-W2	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	24 ga. Jacksonville Beach Series 1.5" Clipless Max. 19-inch coverage	One (1) #10 PH wood screws spaced 6-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement;	**-97.25**
J1.5C-W3	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	.032 Al Jacksonville Beach Series 1.5" Clipless Max. 19-inch coverage	One (1) #10 PH wood screws spaced 3-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement;	**-108.5**
J1.5C-W4	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	24 ga. Jacksonville Beach Series 1.5" Clipless Max. 19-inch coverage	One (1) #10 PH wood screws spaced 3-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement;	**-161**

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APPENDIX B

Approved Systems for Miami Series 1.75 Snap Lock over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier/ Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
M1.75-W1	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	.032 Al Miami Series 1.75 Snap Lock Max. 14-inch coverage	Miami Series 1.75 Snap Lock Clip with two (2) #10 PH wood screws spaced 12-inch o.c.	**-110.5**
M1.75-W2	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	24 ga. Miami Series 1.75 Snap Lock Max. 18-inch coverage	Miami Series 1.75 Snap Lock Clip with two (2) #10 PH wood screws spaced 16-inch o.c.	**-114.25**
M1.75-W3	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	.032 Al Miami Series 1.75 Snap Lock Max. 14-inch coverage	Miami Series 1.75 Snap Lock Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	**-114.25**
M1.75-W4	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	24 ga. Miami Series 1.75 Snap Lock Max. 18-inch coverage	Miami Series 1.75 Snap Lock Clip with two (2) #10 PH wood screws spaced 8-inch o.c.	**-156.75**

Approved Systems for Palm Beach Series 1.5 Mechanical Seam over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
P1.5M-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al Palm Beach Series 1.5 Mechanical Seam Max. 20-inch wide 90° seam	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	**-63.5**
P1.5M-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. Palm Beach Series 1.5 Mechanical Seam Max. 20-inch wide 90° seam	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	**-93.5**
P1.5M-W3	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. Palm Beach Series 1.5 Mechanical Seam Max. 20-inch wide 90° seam	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	**-101**
P1.5M-W4	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. Palm Beach Series 1.5 Mechanical Seam Max. 20-inch wide 180° seam	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	**-123.5**

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Approved Systems for Palm Beach Series 1.5 Mechanical Seam over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
P1.5M-W5	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	.032 Al Palm Beach Series 1.5 Mechanical Seam Max. 20-inch wide 180° seam	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	**-131**

Approved Systems for Key West Series 5-V Crimp over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
K5VC-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	26 ga. 5-V-Crimp Max. 24-inch wide	One (1) #10 HWH wood screw with sealing washer placed through the apex of the inside rib at the panel lap and through the center rib of the panel (12-inch o.c. across the panel); Fastener rows spaced 16-inch o.c.	**-78.5**
K5VC-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	26 ga. 5-V-Crimp Max. 24-inch wide	One (1) #14 WoodZAC® HWH wood screw with sealing washer placed through the apex of the inside rib at the panel lap and through the center rib of the panel (12-inch o.c. across the panel); Fastener rows spaced 8-inch o.c.	**-106.75**

Approved Systems for Stuart Line Series 1” Nail Strip over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier/ Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
S1NS-W1	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	24 ga. Stuart Line Series 1” Nail Strip Max. 16-inch coverage	One (1) #10 PH wood screws spaced 12-inch o.c. along the nail strip; Bostik Chem-Calk 915 applied along the fasteners prior to seam engagement;	**-91.25**
S1NS-W2	Min. 15/32 CDX plywood	OPTIONAL *Approved* fire barrier or insulation	As required per FBC	24 ga. Stuart Line Series 1” Nail Strip Max. 16-inch coverage	One (1) #10 PH wood screws spaced 6-inch o.c. along the nail strip; Bostik Chem-Calk 915 applied to top of male rib on fastening side prior to seam engagement;	**-136.75**

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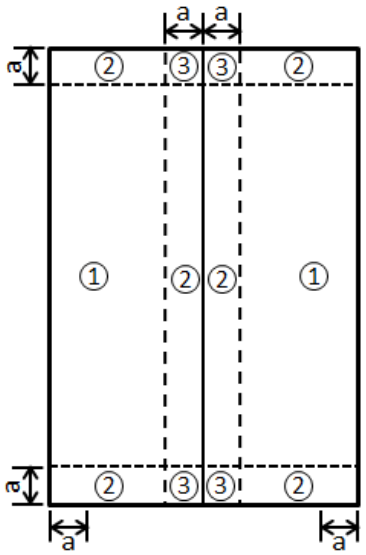
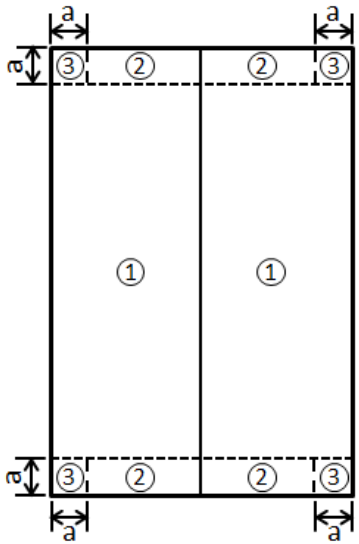
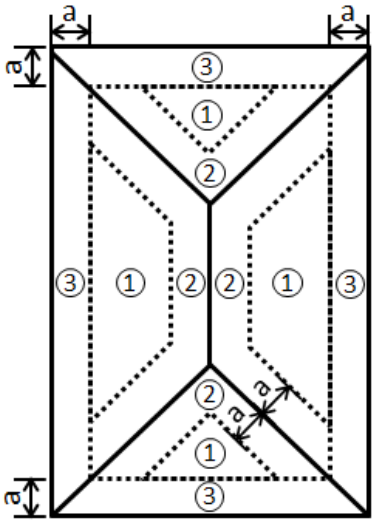
DESIGN WIND LOADS

The following tables provide design wind loads for components and cladding in accordance with Section 1609 of the FBC and ASCE 7-22 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 6.1:12
4. All calculations are based on an effective wind area of 10-ft^2 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. Ground elevation factor, K_e = 1.0
9. 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.
10. Zone 2 applies to Zone 3 for Hip Roofs where the slope is between 2:12 and 6.1:12
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 Roofs		Hip Roofs
Slopes 2:12 to 6.1:12	Slopes >6.1:12 to 12:12	Slopes 2:12 to 12:12
		

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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	-26.9	-31.6	-36.6	-42.0	-47.8	-54.0	-60.5	-67.5	-74.7
		30	-28.3	-33.2	-38.5	-44.1	-50.2	-56.7	-63.6	-70.8	-78.5
		40	-30.5	-35.8	-41.5	-47.7	-54.2	-61.2	-68.6	-76.5	-84.7
		50	-32.4	-38.0	-44.1	-50.6	-57.6	-65.0	-72.8	-81.2	-89.9
		60	-34.0	-39.9	-46.3	-53.1	-60.4	-68.2	-76.5	-85.2	-94.4
	2	20	-33.6	-39.4	-45.7	-52.5	-59.7	-67.4	-75.5	-84.2	-93.3
		25	-35.5	-41.7	-48.4	-55.5	-63.2	-71.3	-80.0	-89.1	-98.7
		30	-37.3	-43.8	-50.8	-58.3	-66.3	-74.9	-84.0	-93.6	-103.7
		40	-40.3	-47.3	-54.9	-63.0	-71.6	-80.9	-90.7	-101.0	-111.9
		50	-42.8	-50.2	-58.2	-66.8	-76.0	-85.8	-96.2	-107.2	-118.8
		60	-44.9	-52.7	-61.1	-70.2	-79.8	-90.1	-101.0	-112.6	-124.7
	3	20	-44.1	-51.7	-60.0	-68.8	-78.3	-88.4	-99.1	-110.5	-122.4
		25	-46.7	-54.8	-63.5	-72.9	-82.9	-93.6	-105.0	-117.0	-129.6
		30	-49.0	-57.5	-66.7	-76.5	-87.1	-98.3	-110.2	-122.8	-136.1
		40	-52.9	-62.1	-72.0	-82.6	-94.0	-106.1	-119.0	-132.6	-146.9
		50	-56.1	-65.9	-76.4	-87.7	-99.8	-112.6	-126.3	-140.7	-155.9
		60	-58.9	-69.2	-80.2	-92.1	-104.8	-118.3	-132.6	-147.7	-163.7
Partially Enclosed	1	20	-29.7	-34.9	-40.5	-46.5	-52.8	-59.7	-66.9	-74.5	-82.6
		25	-31.5	-36.9	-42.8	-49.2	-56.0	-63.2	-70.8	-78.9	-87.4
		30	-33.0	-38.8	-45.0	-51.6	-58.7	-66.3	-74.4	-82.8	-91.8
		40	-35.7	-41.9	-48.6	-55.8	-63.4	-71.6	-80.3	-89.4	-99.1
		50	-37.9	-44.4	-51.5	-59.2	-67.3	-76.0	-85.2	-94.9	-105.2
		60	-39.8	-46.7	-54.1	-62.1	-70.7	-79.8	-89.4	-99.7	-110.4
	2	20	-37.9	-44.5	-51.6	-59.2	-67.4	-76.0	-85.2	-95.0	-105.2
		25	-40.1	-47.1	-54.6	-62.7	-71.3	-80.5	-90.3	-100.6	-111.4
		30	-42.1	-49.4	-57.3	-65.8	-74.9	-84.5	-94.8	-105.6	-117.0
		40	-45.5	-53.4	-61.9	-71.1	-80.8	-91.3	-102.3	-114.0	-126.3
		50	-48.3	-56.6	-65.7	-75.4	-85.8	-96.9	-108.6	-121.0	-134.1
		60	-50.7	-59.5	-69.0	-79.2	-90.1	-101.7	-114.0	-127.0	-140.7
	3	20	-48.4	-56.8	-65.8	-75.6	-86.0	-97.1	-108.8	-121.3	-134.4
		25	-51.2	-60.1	-69.7	-80.0	-91.1	-102.8	-115.3	-128.4	-142.3
		30	-53.8	-63.1	-73.2	-84.0	-95.6	-107.9	-121.0	-134.8	-149.4
		40	-58.1	-68.1	-79.0	-90.7	-103.2	-116.5	-130.6	-145.6	-161.3
		50	-61.6	-72.3	-83.9	-96.3	-109.6	-123.7	-138.7	-154.5	-171.2
		60	-64.7	-75.9	-88.1	-101.1	-115.0	-129.8	-145.6	-162.2	-179.7

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APPENDIX C

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	-38.7	-45.4	-52.7	-60.5	-68.8	-77.7	-87.1	-97.1	-107.6
		30	-40.2	-47.2	-54.7	-62.8	-71.4	-80.7	-90.4	-100.8	-111.6
		40	-42.6	-50.0	-58.0	-66.6	-75.8	-85.5	-95.9	-106.8	-118.4
		50	-44.6	-52.3	-60.7	-69.7	-79.3	-89.5	-100.4	-111.8	-123.9
		60	-46.3	-54.3	-63.0	-72.3	-82.3	-92.9	-104.2	-116.1	-128.6
	2	20	-48.7	-57.2	-66.3	-76.1	-86.6	-97.8	-109.6	-122.2	-135.4
		25	-51.2	-60.0	-69.6	-79.9	-90.9	-102.7	-115.1	-128.2	-142.1
		30	-53.1	-62.3	-72.3	-83.0	-94.4	-106.6	-119.5	-133.1	-147.5
		40	-56.3	-66.1	-76.6	-88.0	-100.1	-113.0	-126.7	-141.1	-156.4
		50	-58.9	-69.2	-80.2	-92.1	-104.8	-118.3	-132.6	-147.7	-163.7
		60	-61.2	-71.8	-83.2	-95.6	-108.7	-122.7	-137.6	-153.3	-169.9
	3	20	-64.0	-75.1	-87.1	-99.9	-113.7	-128.4	-143.9	-160.3	-177.7
		25	-67.1	-78.8	-91.4	-104.9	-119.4	-134.7	-151.1	-168.3	-186.5
		30	-69.7	-81.8	-94.8	-108.9	-123.9	-139.8	-156.8	-174.7	-193.6
		40	-73.9	-86.7	-100.6	-115.5	-131.4	-148.3	-166.3	-185.2	-205.3
		50	-77.3	-90.8	-105.3	-120.8	-137.5	-155.2	-174.0	-193.9	-214.8
		60	-80.3	-94.2	-109.3	-125.4	-142.7	-161.1	-180.6	-201.2	-223.0
Partially Enclosed	1	20	-43.2	-50.6	-58.7	-67.4	-76.7	-86.6	-97.1	-108.2	-119.9
		25	-45.3	-53.2	-61.6	-70.8	-80.5	-90.9	-101.9	-113.5	-125.8
		30	-47.0	-55.2	-64.0	-73.5	-83.6	-94.3	-105.8	-117.8	-130.6
		40	-49.9	-58.5	-67.9	-77.9	-88.6	-100.0	-112.2	-125.0	-138.5
		50	-52.2	-61.2	-71.0	-81.5	-92.8	-104.7	-117.4	-130.8	-144.9
		60	-54.2	-63.6	-73.7	-84.6	-96.3	-108.7	-121.8	-135.8	-150.4
	2	20	-55.0	-64.5	-74.9	-85.9	-97.8	-110.4	-123.7	-137.9	-152.8
		25	-57.7	-67.7	-78.6	-90.2	-102.6	-115.8	-129.9	-144.7	-160.3
		30	-59.9	-70.3	-81.6	-93.6	-106.5	-120.2	-134.8	-150.2	-166.4
		40	-63.5	-74.6	-86.5	-99.3	-112.9	-127.5	-143.0	-159.3	-176.5
		50	-66.5	-78.0	-90.5	-103.9	-118.2	-133.5	-149.6	-166.7	-184.7
		60	-69.0	-81.0	-93.9	-107.8	-122.7	-138.5	-155.3	-173.0	-191.7
	3	20	-70.2	-82.4	-95.6	-109.7	-124.8	-140.9	-158.0	-176.0	-195.1
		25	-73.7	-86.5	-100.3	-115.2	-131.0	-147.9	-165.8	-184.8	-204.7
		30	-76.5	-89.8	-104.1	-119.5	-136.0	-153.5	-172.1	-191.8	-212.5
		40	-81.1	-95.2	-110.4	-126.8	-144.2	-162.8	-182.5	-203.4	-225.4
		50	-84.9	-99.7	-115.6	-132.7	-150.9	-170.4	-191.0	-212.9	-235.9
		60	-88.1	-103.4	-120.0	-137.7	-156.7	-176.9	-198.3	-220.9	-244.8

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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	-44.7	-52.4	-60.8	-69.8	-79.4	-89.7	-100.5	-112.0	-124.1
		25	-46.4	-54.4	-63.1	-72.4	-82.4	-93.1	-104.3	-116.2	-128.8
		30	-47.9	-56.2	-65.1	-74.8	-85.1	-96.1	-107.7	-120.0	-132.9
		40	-50.3	-59.1	-68.5	-78.6	-89.4	-101.0	-113.2	-126.1	-139.8
		50	-52.3	-61.4	-71.2	-81.7	-93.0	-105.0	-117.7	-131.1	-145.3
		60	-54.0	-63.4	-73.5	-84.4	-96.0	-108.4	-121.5	-135.3	-150.0
	2	20	-59.0	-69.3	-80.3	-92.2	-104.9	-118.5	-132.8	-148.0	-163.9
		25	-61.3	-71.9	-83.4	-95.7	-108.9	-122.9	-137.8	-153.6	-170.1
		30	-63.2	-74.2	-86.1	-98.8	-112.4	-126.9	-142.3	-158.5	-175.6
		40	-66.5	-78.0	-90.5	-103.9	-118.2	-133.4	-149.6	-166.6	-184.6
		50	-69.1	-81.1	-94.1	-108.0	-122.8	-138.7	-155.5	-173.2	-191.9
		60	-71.3	-83.7	-97.1	-111.4	-126.8	-143.1	-160.5	-178.8	-198.1
	3	20	-77.5	-90.9	-105.4	-121.0	-137.7	-155.5	-174.3	-194.2	-215.2
		25	-80.4	-94.4	-109.4	-125.6	-142.9	-161.3	-180.9	-201.5	-223.3
		30	-83.0	-97.4	-112.9	-129.7	-147.5	-166.5	-186.7	-208.0	-230.5
		40	-87.2	-102.4	-118.7	-136.3	-155.1	-175.1	-196.3	-218.7	-242.3
		50	-90.7	-106.4	-123.4	-141.7	-161.2	-182.0	-204.1	-227.4	-251.9
		60	-93.6	-109.9	-127.4	-146.3	-166.4	-187.9	-210.6	-234.7	-260.0
Partially Enclosed	1	20	-52.3	-61.3	-71.1	-81.7	-92.9	-104.9	-117.6	-131.0	-145.2
		25	-54.2	-63.7	-73.8	-84.7	-96.4	-108.8	-122.0	-136.0	-150.6
		30	-56.0	-65.7	-76.2	-87.5	-99.5	-112.3	-126.0	-140.3	-155.5
		40	-58.9	-69.1	-80.1	-92.0	-104.6	-118.1	-132.4	-147.5	-163.5
		50	-61.2	-71.8	-83.3	-95.6	-108.8	-122.8	-137.7	-153.4	-169.9
		60	-63.2	-74.1	-86.0	-98.7	-112.3	-126.7	-142.1	-158.3	-175.4
	2	20	-66.6	-78.2	-90.7	-104.1	-118.4	-133.7	-149.9	-167.0	-185.0
		25	-69.1	-81.1	-94.1	-108.0	-122.9	-138.7	-155.5	-173.3	-192.0
		30	-71.4	-83.7	-97.1	-111.5	-126.8	-143.2	-160.5	-178.9	-198.2
		40	-75.0	-88.0	-102.1	-117.2	-133.3	-150.5	-168.8	-188.0	-208.4
		50	-78.0	-91.5	-106.1	-121.8	-138.6	-156.5	-175.4	-195.5	-216.6
		60	-80.5	-94.5	-109.6	-125.8	-143.1	-161.5	-181.1	-201.8	-223.6
	3	20	-85.0	-99.8	-115.8	-132.9	-151.2	-170.7	-191.4	-213.2	-236.2
		25	-88.3	-103.6	-120.1	-137.9	-156.9	-177.1	-198.6	-221.3	-245.2
		30	-91.1	-106.9	-124.0	-142.4	-162.0	-182.8	-205.0	-228.4	-253.1
		40	-95.8	-112.4	-130.4	-149.7	-170.3	-192.2	-215.5	-240.1	-266.1
		50	-99.6	-116.9	-135.5	-155.6	-177.0	-199.8	-224.0	-249.6	-276.6
		60	-102.8	-120.6	-139.9	-160.6	-182.7	-206.3	-231.2	-257.7	-285.5

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