CREEK
TECHNICAL SERVICES, LLC

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EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Issued August 9, 2020

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

Manufacturing: Drexel Metals Association of Regional Manufacturers (DM-ARM)

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

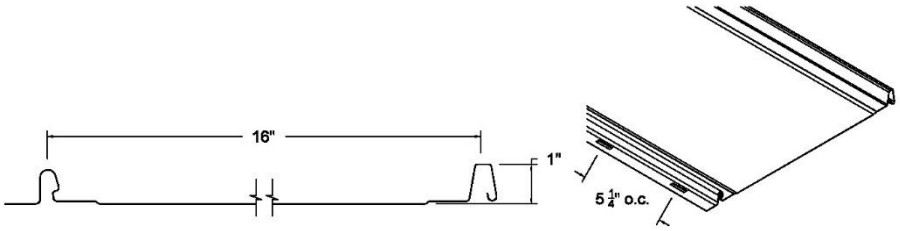
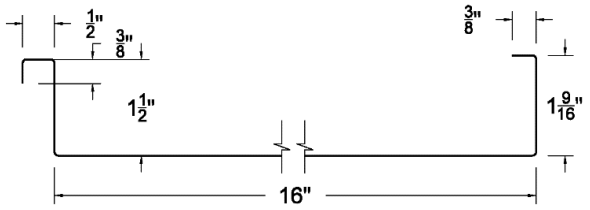
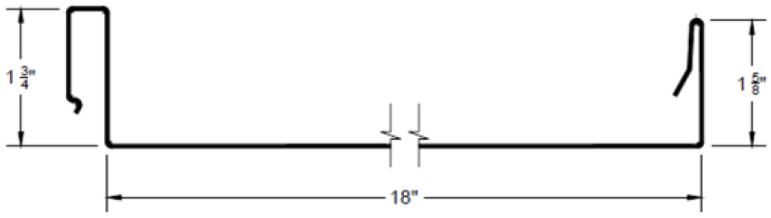
SCOPE

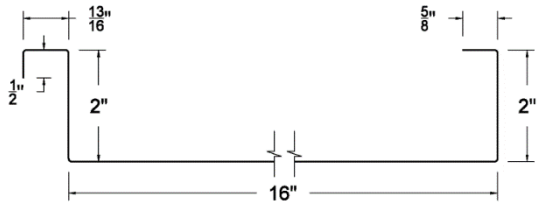
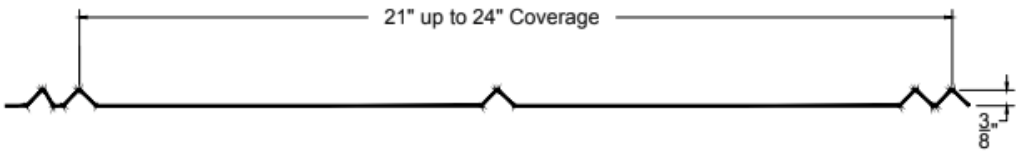
Category: Roofing
Subcategory: Metal Roofing
Code Edition: Florida Building Code, 7th Edition (2020) High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1518.9.1, 1523.1.1, 1523.6.5, 1523.6.5.2.4, 1523.6.5.2.4.1
Properties: Wind Resistance

REFERENCES

Entity	Report No.	Standard	Year
Architectural Testing (TST1558)	56840.02-122-18	TAS 100	1995
Architectural Testing (TST1558)	56842.02-122-18	TAS 100	1995
Architectural Testing (TST1558)	58461.01-122-44	TAS 125	2003
Architectural Testing (TST1558)	58641.02-122-44	TAS 100	1995
Architectural Testing (TST1527)	H3245.01-450-18	TAS 125	2003
Architectural Testing (TST1527)	H3245.02-450-18	TAS 100	1995
Architectural Testing (TST1527)	H9058.02-450-18	TAS 125	2003
Architectural Testing (TST1527)	H9058.01-450-18	TAS 125	2003
Architectural Testing (TST1527)	H9058.03-450-18	TAS 100	1995
Hurricane Test Laboratory (TST1527)	0287-0209-07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0287-0308-07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0287-0311-07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0287-0312-07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0287-0313-07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0287-0512-07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0287-0706-07	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	VLS-005-02-01	ASTM B 117	2016
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	VLS-004-02-01	ASTM G 155	2013
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	DMC-002-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	DMC-004-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	DMC-005-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	DMC-006-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	DMC-007-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	DMC-008-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	DMC-009-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	DMC-014-02-01	TAS 125	2003
PRI Construction Materials Technologies (TST5878)	DMC-016-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	DMC-030-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	HTL-013-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	HTL-014-02-01	TAS 100	1995

PRODUCT DESCRIPTION

DMC 100NS	**Profile:**	1 in. snap lock seam; Max.16 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel with integral perorated nail strip
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90; F_y = min. 50 ksi; Shall conform with FBC Section 1507.4.3
		
DMC 150SS	**Profile:**	1.5 in. mechanical seam; Max. 16 in. coverage
	Description:	Non-structural, mechanical lock standing seam roof panel
	Material:	Min. 0.032 in. Fluropon® coated ASTM B209 aluminum; F_y = min. 16 ksi; Shall conform with FBC Section 1507.4.3
		Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90; F_y = min. 50 ksi; Shall conform with FBC Section 1507.4.3
		
DMC 175S	**Profile:**	1.75 in. snap lock seam; Max. 18 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel
	Material:	0.032-inch (F_y = min. 24 ksi) or 0.040-inch (F_y = min. 20 ksi) Fluropon® coated ASTM B209 aluminum; Shall conform with FBC Section 1507.4.3
		Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90ASTM A792 or ASTM A653; F_y = min. 50 ksi; Shall conform with FBC Section 1507.4.3
		

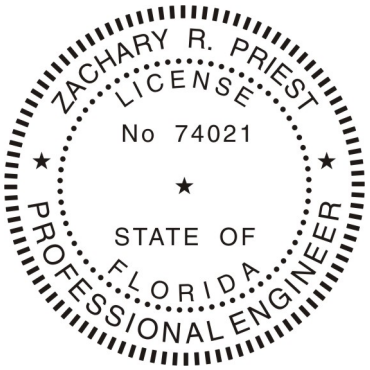
DMC 200S	**Profile:**	2 in. mechanical seam; Max. 16 in. coverage
	Description:	Non-structural, mechanical lock standing seam roof panel
	Material:	Min. 0.040 in. Fluropon® coated ASTM B209 aluminum; F_y = min. 20 ksi; Shall conform with FBC Section 1507.4.3
		Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90; F_y = min. 50 ksi; Shall conform with FBC Section 1507.4.3
		
DMC 5V	**Profile:**	3/8 in. ribs; Min. 21 in., Max. 24 in. coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 26 ga. Fluropon® coated ASTM A792 or ASTM A653 G90 ; F_y = min. 50 ksi; Shall conform with FBC Section 1507.4.3
		Min. 0.032 in. Fluropon® coated ASTM B209 aluminum; F_y = min. 19 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.



Digitally signed by Zachary R. Priest
2020.08.09 15:10:24 -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.

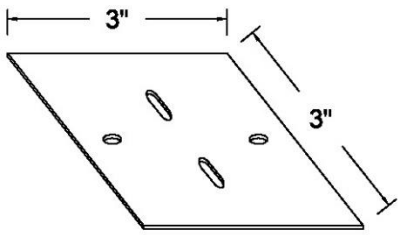
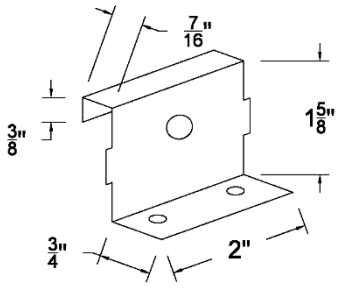
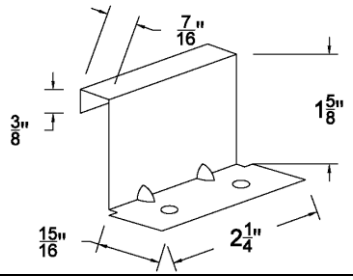
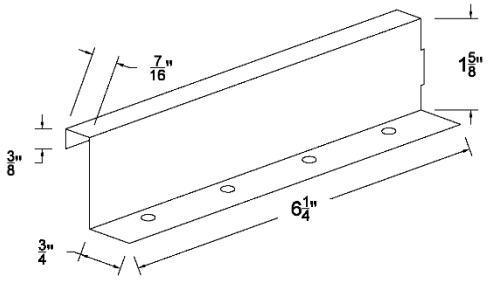
APPENDICES

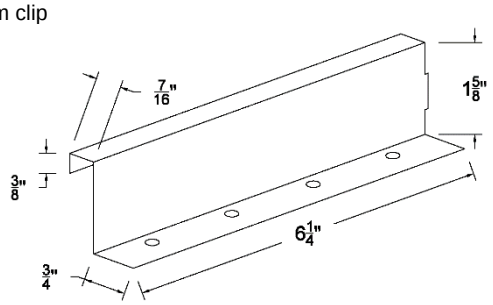
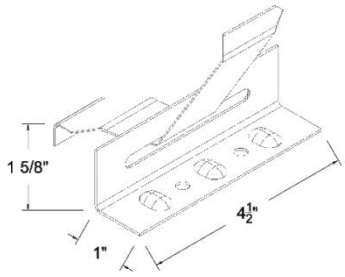
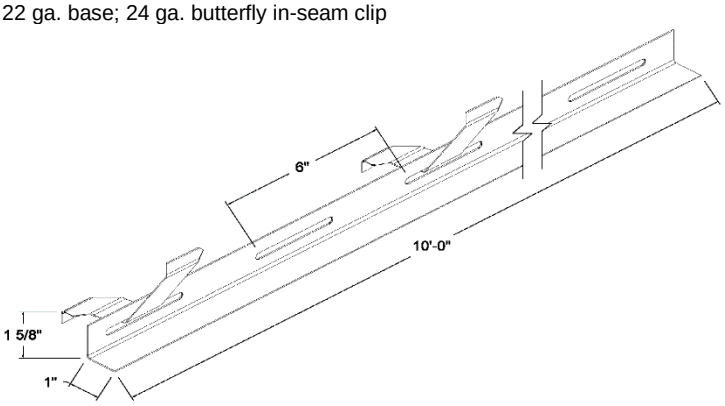
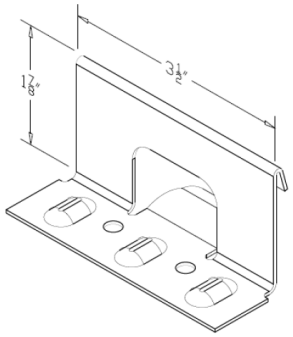
1) APPENDIX A – Installation (9 pages)
2) APPENDIX B – Approved Roof Systems (5 pages)
3) APPENDIX C – Design Wind Loads(3 pages)

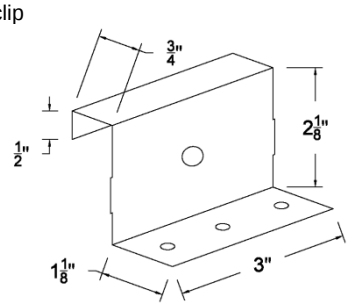
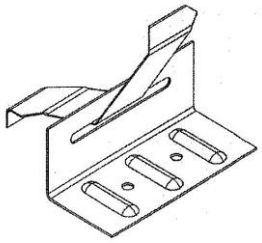
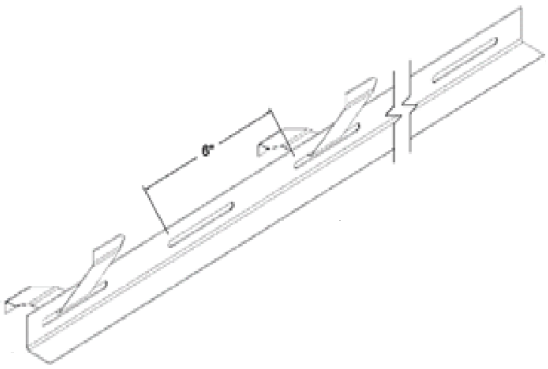
INSTALLATION

*Note - Refer to the **APPROVED ROOF SYSTEMS** section of this report for specific installation details of a selected system.*

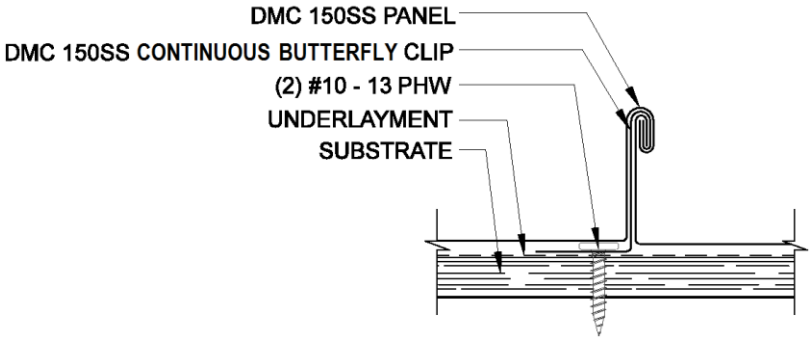
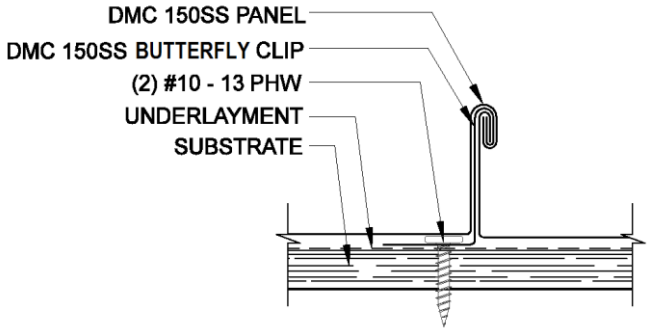
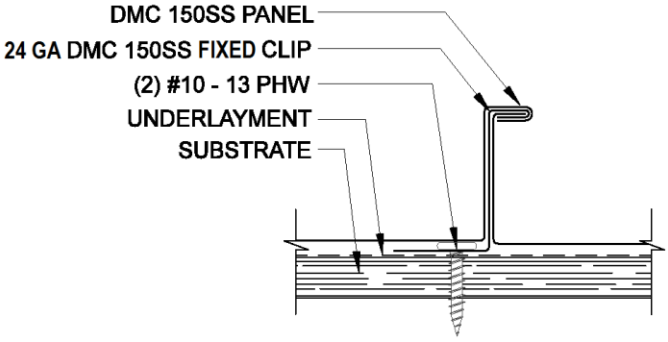
Unless otherwise specified in this report the following installation details shall be met for the named products:

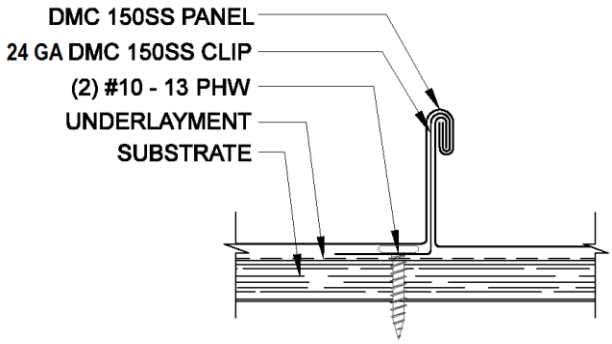
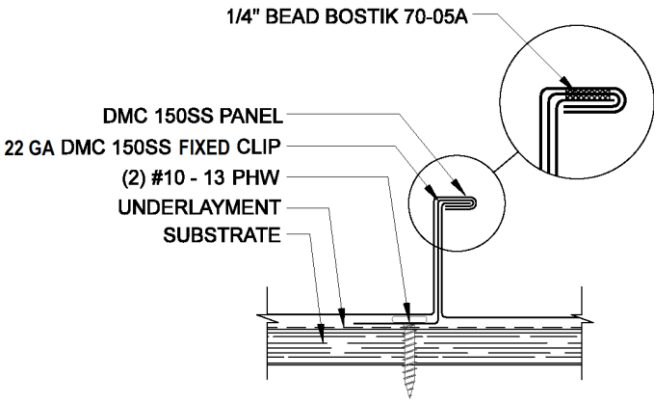
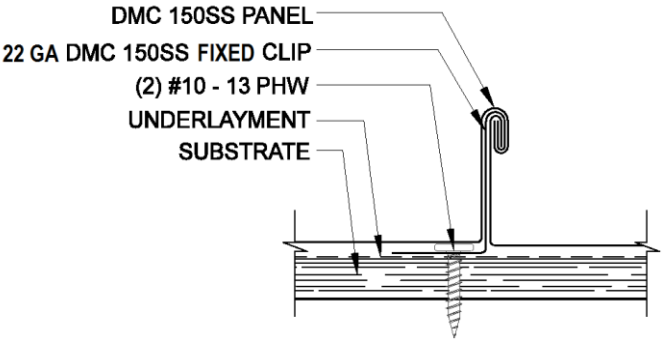
Component	Product	Installation Detail
Fasteners	#9-15 HWH wood screw with sealing washer	Shall penetrate through the sheathing a minimum 3/8 in. Must be corrosion resistant in accordance with FBC section 1507.4.4.
	#10-13 PH wood screw	
	#10-16 DP3 PH self-drilling screw	Shall penetrate through the top rib of the steel deck a minimum 3/4 in. Must be corrosion resistant in accordance with FBC section 1507.4.4.
	#14-13 DP1 PH self-drilling screw	
Bearing Plates	18 ga. Bearing Plate	
Clips	24 ga. DMC 150SS Clip	24 ga. SS in-seam clip 
	24 ga. DMC 150SS Fixed Clip	24 ga. in-seam clip 
Clips	22 ga. DMC 150SS Clip	22 ga. SS in-seam clip 

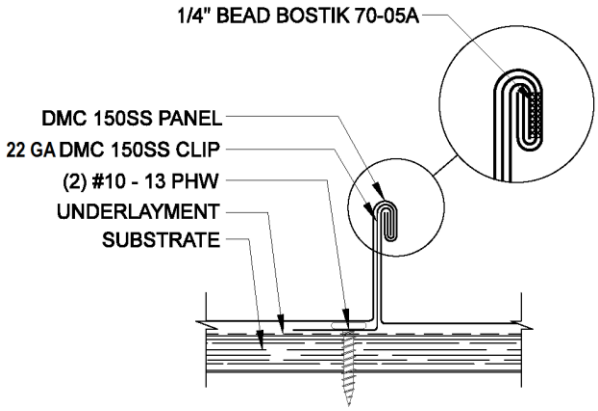
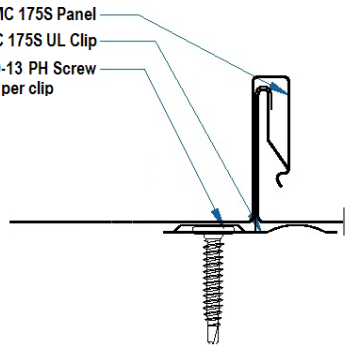
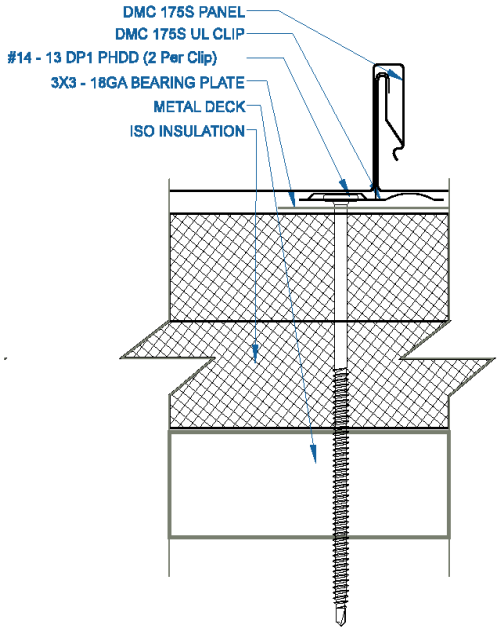
Component	Product	Installation Detail
	22 ga. DMC 150SS Fixed Clip	22 ga. in-seam clip 
	DMC 150SS Butterfly Clip	22 ga. base; 24 ga. butterfly in-seam clip 
	DMC 150SS Continuous Butterfly Clip	22 ga. base; 24 ga. butterfly in-seam clip 
Clips	DMC 175S UL Clip	18 ga. in-seam clip 

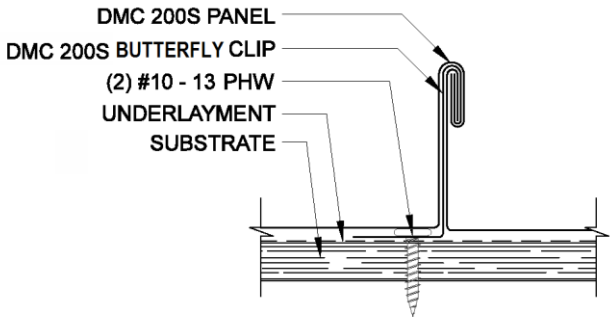
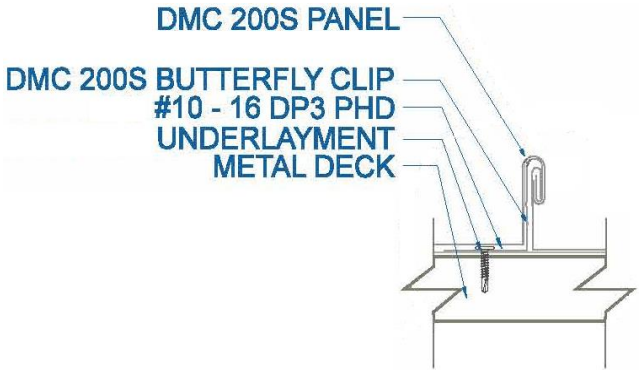
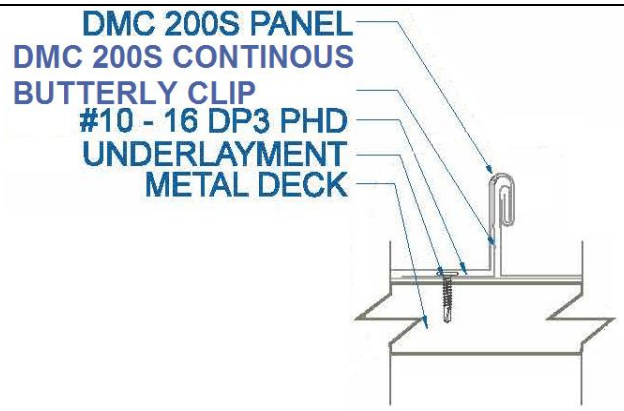
Component	Product	Installation Detail
lips (Cont'd)	DMC 200S Clip	22 ga. SS in-seam clip 
	DMC 200S Butterfly Clip	18 ga. base; 22 ga. butterfly in-seam clip; 4.5 in. length 
	DMC 200S Continuous Butterfly Clip	18 ga. base; 22 ga. butterfly in-seam clip; 120 in. length; top slider 12 in. o.c. 
Sealants	Bostik 70-05A Bostik Chem-Calk 915	Shall be applied in continuous beads along the seam

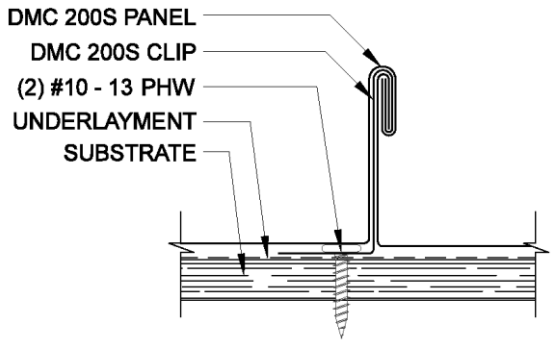
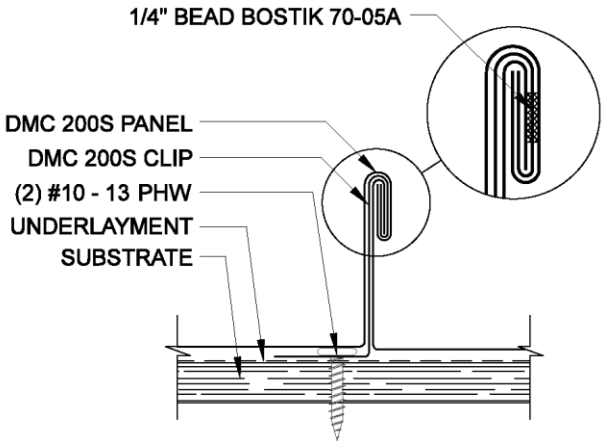
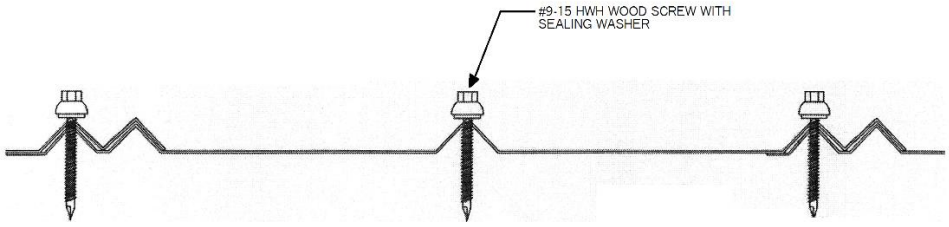
Fastening Details	
Nomenclature	Attachment
DMC 100NS Standard	

Fastening Details	
Nomenclature	Attachment
DMC 100NS Enhanced	
DMC 150SS Continuous Butterfly	
DMC 150SS Butterfly	
DMC 150SS Fixed - 90	

Fastening Details	
Nomenclature	Attachment
DMC 150SS Standard (AI)	
DMC 150SS Fixed Enhanced - 90	
DMC 150SS Fixed Enhanced - 180	

Fastening Details	
Nomenclature	Attachment
DMC 150SS Enhanced (Al)	
DMC 175S #10 Standard	
DMC 175S #14 Standard	

Fastening Details	
Nomenclature	Attachment
DMC 200S Butterfly	
DMC 200S Butterfly (Steel)	 Use 18 ga. bearing plate over polyisocyanurate insulation
DMC 200S Continuous Butterfly (Steel)	 Use 18 ga. bearing plate over polyisocyanurate insulation

Fastening Details	
Nomenclature	Attachment
DMC 200S Fixed	
DMC 200S Fixed Enhanced	
DMC 5V Standard	

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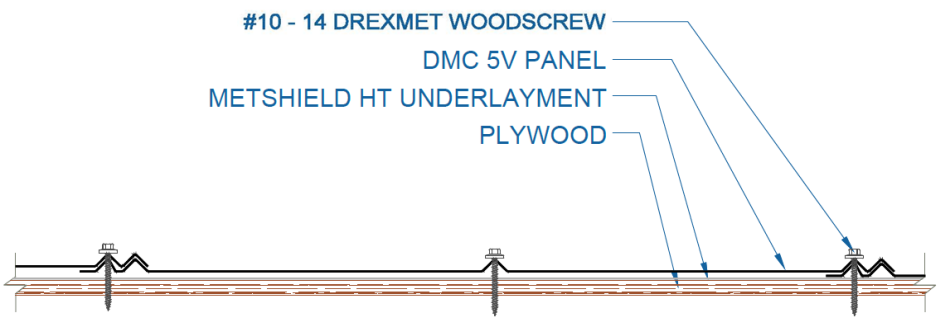
Nomenclature	Attachment
DMC 5V #10 Standard	

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. 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. In no case shall the panels be installed on less than two continuous spans, which are spaced a maximum 5-ft o.c. At minimum, the deck shall be attached with one (1) #12 x 1.5-inch HWH self-drilling screws at the bottom of each flute (maximum. 6-inch o.c. along the support). At minimum, the deck side laps shall be fastened a maximum 6-inch o.c. with #12 x 1.5-inch HWH self-drilling screws.
7. Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum 19/32-inch thick APA Span-Rated plywood sheathing or wood plank at maximum 24-inch span for new construction. Existing construction shall be the minimum plywood sheathing or wood plank thickness at maximum 24-inch 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-inch o.c.

Roof System Numbers and Definitions	
100NS-W#	DMC 100NS over Wood Deck (New or Existing)
150SS-W#	DMC 150SS over Wood Deck (New or Existing)
175S-S#	DMC 175S over Steel Deck (New or Existing)
175S-W#	DMC 175S over Wood Deck (new or Existing)
200S-S#	DMC 200S over Steel Deck (New or Existing)
200S-W#	DMC 200S over Wood Deck (New or Existing)
5V-W#	DMC 5V over Wood Deck (New or Existing)

Approved Systems for DMC 100NS over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
100NS-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 100NS Max. 16-inch wide	*DMC 100NS Standard* attachment with fasteners spaced 10.5 in. o.c.	**-97.5**
100NS-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 100NS Max. 16-inch wide	*DMC 100NS Standard* attachment with fasteners spaced 5.25 in. o.c.	**-120**
100NS-W3	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 100NS Max. 16-inch wide	*DMC 100NS Enhanced* attachment with fasteners spaced 5.25 in. o.c.	**-135**

Approved Systems for DMC 150SS over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
150SS-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	0.032" Al DMC 150SS Max. 16-inch wide 180° seam	*DMC 150SS Standard (Al)* attachment with clips spaced 16 in. o.c.	**-90**
150SS-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 150SS Max. 16-inch wide 90° seam	*DMC 150SS Fixed - 90* attachment with clips spaced 16 in. o.c.	**-90**
150SS-W3	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 150SS Max. 16-inch wide 180° seam	*DMC 150SS Butterfly* attachment with clips spaced 16 in. o.c.	**-99.25**
150SS-W4	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 150SS Max. 16-inch wide 180° seam	*DMC 150SS Continuous Butterfly* attachment with fasteners spaced 12 in. o.c.	**-114.25**
150SS-W5	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 150SS Max. 16-inch wide Min. 90° seam	*DMC 150SS Fixed Enhanced - 90* attachment with clips spaced 12 in. o.c.	**-150**
150SS-W6	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 150SS Max. 16-inch wide Min. 180° seam	*DMC 150SS Fixed Enhanced - 180* attachment with clips spaced 8 in. o.c.	**-165**
150SS-W7	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	0.032" Al DMC 150SS Max. 16-inch wide 180° seam	*DMC 150SS Enhanced (Al)* attachment with clips spaced 8 in. o.c.	**-180**

Approved Systems for DMC 175S over Steel Deck (New or Existing)							
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
175S-S1	Min. 22 ga. Type B Steel	As required	Min. 1 in. *Approved* polyisocyanurate insulation board	As required per FBC	0.040" Al DMC 175S Max. 17.5-inch wide	*DMC 175S #14 Standard* attachment with clips spaced 18 in. o.c.	**-88**

Approved Systems for DMC 175S over Steel Deck (New or Existing)							
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
175S-S2	Min. 22 ga. Type B Steel	As required	Min. 1 in. *Approved* polyisocyanurate insulation board	As required per FBC	0.040" Al DMC 175S Max. 17.5-inch wide	*DMC 175S #14 Standard* attachment with clips spaced 12 in. o.c.	**-129.25**

Approved Systems for DMC 175S over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
175S-W1	Min. 15/32 CDX plywood	-	ASTM D 226, Type II roofing felt attached per 1518.2.1 with nails and tin caps per 1517.5 followed by Metshield High-Temp Underlayment self-adhered to felt	0.032" Al DMC 175S Max. 18-inch wide	*DMC 175S #10 Standard* attachment with clips spaced 24 in. o.c.	**-74.75**
175S-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 175S Max. 18-inch wide	*DMC 175S #10 Standard* attachment with clips spaced 16 in. o.c.	**-84.25**
175S-W3	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	0.040" Al DMC 175S Max. 17.5-inch wide	*DMC 175S #10 Standard* attachment with clips spaced 18 in. o.c.	**-106.75**
175S-W4	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. DMC 175S Max. 18-inch wide	*DMC 175S #10 Standard* attachment with clips spaced 8 in. o.c.	**-121.75**
175S-W5	Min. 15/32 CDX plywood	-	ASTM D 226, Type II roofing felt attached per 1518.2.1 with nails and tin caps per 1517.5 followed by Metshield High-Temp Underlayment self-adhered to felt	0.032" Al DMC 175S Max. 18-inch wide	*DMC 175S #10 Standard* attachment with clips spaced 6 in. o.c.	**-131**

Approved Systems for DMC 200S over Steel Deck (New or Existing)							
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
200S-S1	Min. 22 ga. Type B Steel	As required	Min. 1 in. *Approved* polyisocyanurate insulation board	As required per FBC	24 ga. DMC 200S Max. 16-inch wide 180° seam	*DMC 200S Butterfly (Steel)* attachment with clips spaced 24 in. o.c.	**-88**

Approved Systems for DMC 200S over Steel Deck (New or Existing)							
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
200S-S2	Min. 22 ga. Type B Steel	As required	None	As required per FBC	24 ga. DMC 200S Max. 16-inch wide 180° seam	*DMC 200S Butterfly (Steel)* attachment with clips spaced 24 in. o.c.	**-91.75**
200S-S3	Min. 22 ga. Type B Steel	As required	Min. 1 in. *Approved* polyisocyanurate insulation board	As required per FBC	24 ga. DMC 200S Max. 16-inch wide 180° seam	*DMC 200S Continuous Butterfly (Steel)* attachment with clips spaced 12 in. o.c.	**-121.75**
200S-S4	Min. 22 ga. Type B Steel	As required	None	As required per FBC	24 ga. DMC 200S Max. 16-inch wide 180° seam	*DMC 200S Continuous Butterfly (Steel)* attachment with clips spaced 12 in. o.c.	**-151.75**

Approved Systems for DMC 200S over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
200S-W1	Min. 19/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	0.040" Al DMC 200S Max. 16-inch wide 180° seam	*DMC 200S Fixed* attachment with clips spaced 16 in. o.c.	**-105**
200S-W2	Min. 19/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	0.040" Al DMC 200S Max. 16-inch wide 180° seam	*DMC 200S Fixed Enhanced* attachment with clips spaced 8 in. o.c.	**-180**

Approved Systems for DMC 5V over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
5V-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	ASTM D 226, Type II roofing felt attached per 1518.2.1 with nails and tin caps per 1517.5 followed by Metshield High-Temp Underlayment self-adhered to felt	0.032" Al DMC 5V Min. 21-inch to Max. 24-inch coverage	*DMC 5V #10 Standard* attachment with #10-14 HWH wood screws with sealing washers spaced 18 in. o.c.	**-56**

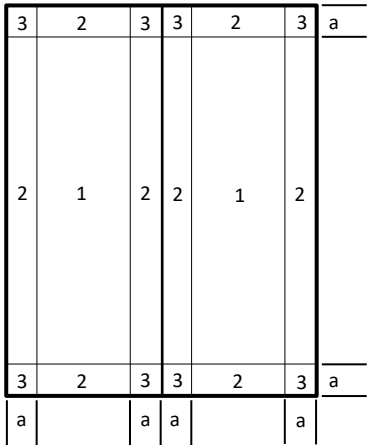
Approved Systems for DMC 5V over Wood Deck (New or Existing)						
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	*MDP* (psf)
5V-W2	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	26 ga, DMC 5V Min. 21-inch to Max. 24-inch coverage	*DMC 5V Standard* attachment with clips spaced 16 in. o.c.	**-60**
5V-W3	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	ASTM D 226, Type II roofing felt attached per 1518.2.1 with nails and tin caps per 1517.5 followed by Metshield High-Temp Underlayment self-adhered to felt	26 ga. DMC 5V Min. 21-inch to Max. 24-inch coverage	*DMC 5V #10 Standard* attachment with #10-14 HWH wood screws with sealing washers spaced 24 in. o.c.	**-71**
5V-W4	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	26 ga, DMC 5V Min. 21-inch to Max. 24-inch coverage	*DMC 5V Standard* attachment with clips spaced 8 in. o.c.	**-121.75**
5V-W5	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	ASTM D 226, Type II roofing felt attached per 1518.2.1 with nails and tin caps per 1517.5 followed by Metshield High-Temp Underlayment self-adhered to felt	26 ga. DMC 5V or 0.032" Al DMC 5V Min. 21-inch to Max. 24-inch coverage	*DMC 5V #10 Standard* attachment with #10-14 HWH wood screws with sealing washers spaced 6 in. o.c.	**-206**

DESIGN WIND LOADS

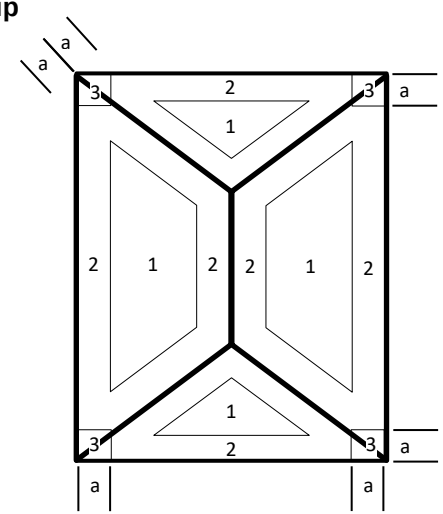
The following tables provide design wind loads for components and cladding in accordance with Section 1620 of the FBC and ASCE 7-16 under the following provisions:

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-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. 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



Hip



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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

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